



Full wwPDB EM Validation Report ⓘ

Feb 1, 2025 – 07:40 PM EST

PDB ID : 9CPB
EMDB ID : EMD-45801
Title : Atomic model of bovine Fallopian tube cilia doublet microtubule (48-nm periodicity)
Authors : Zeng, J.; Sun, C.; Zhang, R.
Deposited on : 2024-07-18
Resolution : 3.52 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

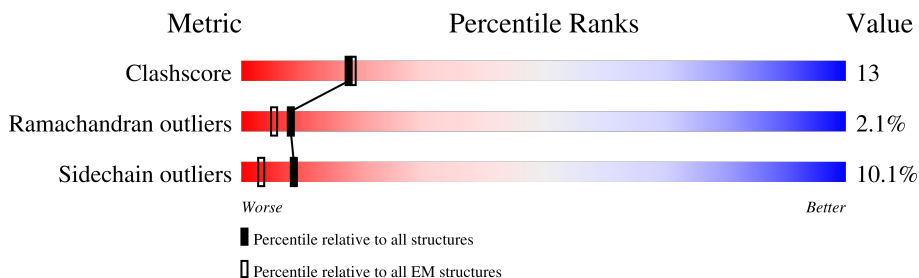
EMDB validation analysis : 0.0.1.dev113
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4.02b-467
buster-report : 1.1.7 (2018)
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.40

1 Overall quality at a glance

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 3.52 Å.

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



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

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

Mol	Chain	Length	Quality of chain
1	1A	1044	
2	1D	687	
2	1E	687	
2	1F	687	
3	1H	547	
3	1I	547	
4	1K	196	
4	1L	196	

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Mol	Chain	Length	Quality of chain
5	1N	196	8% 51% 7% 42%
5	1O	196	7% 55% • 41%
5	1P	196	8% 57% • 40%
6	1R	101	35% 86% • • 10%
7	1T	321	17% 77% • 21%
7	1U	321	16% 74% 5% 21%
8	1W	193	17% 42% 24% • 30%
8	1X	193	17% 92% • • 5%
8	1Y	193	15% 91% 5% 5%
8	1Z	193	15% 92% • • 5%
8	2A	193	18% 83% 10% • 5%
8	2B	193	17% 92% • • 5%
9	2D	877	37% 45% 6% • 49%
9	2E	877	11% 11% 88%
10	2F	170	9% 43% • 54%
10	2G	170	15% 44% • 54%
10	2H	170	16% 41% 5% 54%
11	2J	549	17% 28% • 70%
11	2K	549	32% 49% • • 46%
11	2L	549	35% 46% • 50%
11	2M	549	19% 32% • 66%
12	2O	623	13% 95% • •
12	2P	623	17% 95% • •
12	2Q	623	15% 95% • •
13	2S	514	28% 51% • 45%

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Mol	Chain	Length	Quality of chain
13	2T	514	
14	2V	284	
14	2W	284	
14	2X	284	
14	2Y	284	
15	3A	232	
16	3C	309	
16	3D	309	
17	3F	212	
18	3H	1410	
19	3J	640	
19	3K	640	
19	3L	640	
20	3N	733	
20	3O	733	
20	3P	733	
20	3Q	733	
21	3S	259	
21	3T	259	
21	3U	259	
21	3V	259	
22	3X	274	
22	3Y	274	
22	3Z	274	
22	4A	274	

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Mol	Chain	Length	Quality of chain
22	4B	274	
22	4C	274	
23	4D	135	
24	4F	495	
24	4G	495	
25	4I	377	
25	4J	377	
26	4K	621	
26	4L	621	
26	4M	621	
27	4O	257	
27	4P	257	
27	4Q	257	
27	4R	257	
27	4S	257	
27	4T	257	
28	4V	136	
28	4W	136	
29	4Y	120	
30	5A	377	
30	5B	377	
31	5D	169	
31	5E	169	
31	5F	169	
31	5G	169	

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Mol	Chain	Length	Quality of chain
31	5H	169	92% 80% 12% 7%
31	5I	169	91% 87% 6% 7%
31	5J	169	92% 73% 20% 7%
32	5L	418	22% 6% 72%
32	5M	418	15% 72% 22% 6%
32	5N	418	12% 77% 17% 6%
32	5O	418	11% 33% 25% 10% 30%
33	5Q	430	7% 20% 6% 75%
33	5R	430	9% 76% 16% 7%
33	5S	430	9% 61% 21% 9% 7%
33	5T	430	5% 32% 27% 10% 29%
33	5V	430	64% 45% 23% 28%
33	5W	430	85% 69% 25% 5%
33	5X	430	83% 71% 22% 5%
33	5Y	430	23% 19% 5% 75%
34	6A	490	38% 20% 25% 9% 44%
34	6B	490	53% 52% 22% 5% 20%
34	6C	490	50% 38% 28% 12% 20%
34	6D	490	17% 11% 9% 75%
34	6E	490	12% 5% 5% 88%
34	6F	490	72% 56% 16% 27%
34	6G	490	82% 68% 17% 15%
34	6H	490	74% 58% 16% 25%
34	6I	490	13% 12% 87%
34	6J	490	13% 10% 87%

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Mol	Chain	Length	Quality of chain
34	6K	490	75% 62% 14% 24%
34	6L	490	83% 66% 18% 15%
34	6M	490	72% 57% 16% 26%
34	6N	490	11% 8% 89%
35	6P	447	20% 36% 60%
35	6Q	447	28% 77% 14% 8%
35	6R	447	32% 70% 17% 8%
35	6S	447	21% 38% 15% 43%
35	6T	447	53% 41% 11% 47%
35	6U	447	92% 72% 21% 6%
35	6V	447	96% 67% 27%
35	6W	447	47% 33% 12% 52%
36	6Y	683	15% 25% 72%
36	6Z	683	12% 26% 72%
37	7C	254	28% 26% 19% 53%
37	7D	254	13% 24% 6% 69%
37	7E	254	22% 22% 11% 67%
37	7F	254	14% 17% 7% 74%
38	7H	274	24% 18% 11% 69%
38	7I	274	8% 8% 5% 88%
39	7K	147	31% 64% 9% 27%
39	7L	147	18% 25% 5% 69%
40	7N	484	13% 10% 87%
41	AB	445	18% 68% 30%
41	AD	445	12% 74% 23%

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Mol	Chain	Length	Quality of chain
41	AF	445	
41	AH	445	
41	AJ	445	
41	AL	445	
41	BB	445	
41	BD	445	
41	BF	445	
41	BH	445	
41	BJ	445	
41	BL	445	
41	CB	445	
41	CD	445	
41	CF	445	
41	CH	445	
41	CJ	445	
41	CL	445	
41	DB	445	
41	DD	445	
41	DF	445	
41	DH	445	
41	DJ	445	
41	DL	445	
41	ED	445	
41	EF	445	
41	EH	445	

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Mol	Chain	Length	Quality of chain
41	EJ	445	11% 65% 28% . .
41	EL	445	12% 61% 30% . . .
41	FD	445	7% 36% 38% 18% . .
41	FF	445	14% 63% 29% . .
41	FH	445	23% 57% 38% .
41	FJ	445	17% 58% 37% . .
41	FL	445	12% 32% 43% 17% . .
41	GD	445	8% 46% 36% 12% . .
41	GF	445	16% 69% 26% . .
41	GH	445	16% 70% 26% .
41	GJ	445	6% 41% 40% 13% . .
41	GL	445	17% 74% 21% .
41	HB	445	19% 70% 22% . .
41	HD	445	7% 38% 44% 12% . .
41	HF	445	12% 63% 32% . .
41	HH	445	10% 64% 31% . .
41	HJ	445	5% 39% 39% 16% . .
41	HL	445	9% 69% 25% . .
41	ID	445	15% 68% 28% .
41	IF	445	15% 67% 29% .
41	IH	445	12% 72% 23% .
41	IJ	445	14% 73% 23% .
41	IL	445	16% 67% 28% . .
41	IN	445	11% 42% 36% 14% . .
41	JD	445	10% 69% 25% . .

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Mol	Chain	Length	Quality of chain
41	JF	445	9% 75% 20% ..
41	JH	445	17% 70% 25% .
41	JJ	445	10% 69% 26% ..
41	JL	445	7% 50% 35% 9% ..
41	KD	445	9% 73% 22% ..
41	KF	445	8% 76% 20% .
41	KH	445	8% 73% 23% .
41	KJ	445	8% 75% 20% ..
41	KL	445	6% 73% 23% .
41	KN	445	10% 75% 20% ..
41	LD	445	. 56% 31% 8% ..
41	LF	445	7% 81% 15% .
41	LH	445	6% 79% 17% .
41	LJ	445	6% 75% 21% .
41	LL	445	7% 74% 21% ..
41	LN	445	13% 78% 18% .
41	MD	445	5% 42% 37% 15% ..
41	MF	445	. 44% 38% 12% ..
41	MH	445	8% 76% 20% .
41	MJ	445	11% 71% 24% ..
41	ML	445	9% 60% 36% .
41	MN	445	26% 43% 34% 17% ..
41	NB	445	11% 50% 31% 12% ..
41	ND	445	8% 42% 40% 11% ..
41	NF	445	10% 49% 31% 13% ..

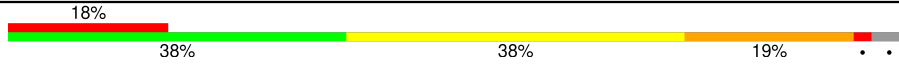
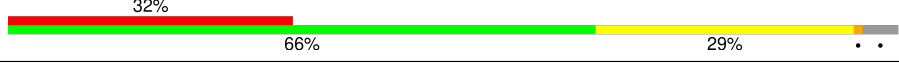
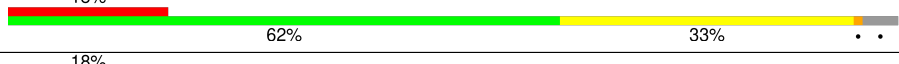
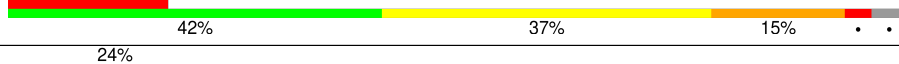


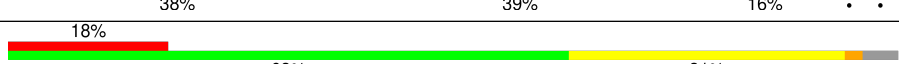
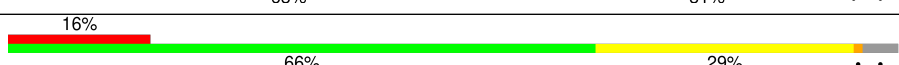
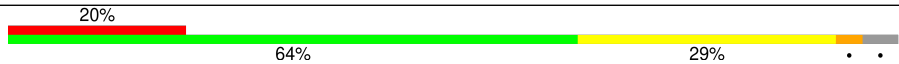


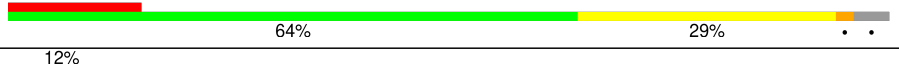
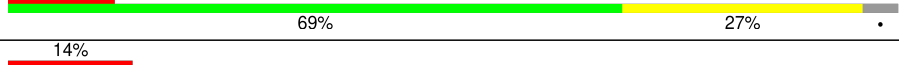

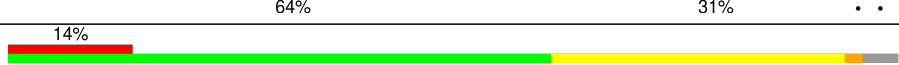










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Mol	Chain	Length	Quality of chain
41	NH	445	
41	NJ	445	
41	NL	445	
41	OB	445	
41	OD	445	
41	OF	445	
41	OH	445	
41	OJ	445	
41	OL	445	
41	PB	445	
41	PD	445	
41	PF	445	
41	PH	445	
41	PJ	445	
41	PL	445	
41	QB	445	
41	QD	445	
41	QF	445	
41	QH	445	
41	QJ	445	
41	QL	445	
41	RB	445	
41	RD	445	
41	RF	445	
41	RH	445	

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Mol	Chain	Length	Quality of chain
41	RJ	445	
41	RL	445	
41	SD	445	
41	SF	445	
41	SH	445	
41	SJ	445	
41	SL	445	
41	TD	445	
41	TF	445	
41	TH	445	
41	TJ	445	
41	TL	445	
41	UD	445	
41	UF	445	
41	UH	445	
41	UJ	445	
41	UL	445	
41	VD	445	
41	VF	445	
41	VH	445	
41	VJ	445	
41	VL	445	
41	WD	445	
41	WF	445	
41	WH	445	

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Mol	Chain	Length	Quality of chain
41	WJ	445	
41	WL	445	
41	WN	445	
42	AC	452	
42	AE	452	
42	AG	452	
42	AI	452	
42	AK	452	
42	BC	452	
42	BE	452	
42	BG	452	
42	BI	452	
42	BK	452	
42	CC	452	
42	CE	452	
42	CG	452	
42	CI	452	
42	CK	452	
42	CM	452	
42	DC	452	
42	DE	452	
42	DG	452	
42	DI	452	
42	DK	452	
42	DM	452	

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Mol	Chain	Length	Quality of chain
42	EC	452	
42	EE	452	
42	EG	452	
42	EI	452	
42	EK	452	
42	EM	452	
42	FC	452	
42	FE	452	
42	FG	452	
42	FI	452	
42	FK	452	
42	FM	452	
42	GC	452	
42	GE	452	
42	GG	452	
42	GI	452	
42	GK	452	
42	GM	452	
42	HC	452	
42	HE	452	
42	HG	452	
42	HI	452	
42	HK	452	
42	HM	452	
42	IC	452	

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Mol	Chain	Length	Quality of chain
42	IE	452	8% 50% 32% 12% . .
42	IG	452	13% 73% 23% . .
42	II	452	12% 71% 25% .
42	IK	452	17% 71% 26% . .
42	IM	452	13% 71% 24% 5%
42	JC	452	15% 71% 23% . .
42	JE	452	11% 70% 25% . 5%
42	JG	452	9% 73% 21% . 5%
42	JI	452	15% 72% 22% . 5%
42	JK	452	7% 40% 38% 17% . .
42	JM	452	6% 51% 30% 12% . 5%
42	KC	452	10% 82% 14% .
42	KE	452	8% 80% 15% 5%
42	KG	452	5% 75% 19% 5%
42	KI	452	5% 75% 20% 5%
42	KK	452	6% 75% 19% . 5%
42	KM	452	. 57% 30% 8% . .
42	LC	452	7% 78% 17% .
42	LE	452	9% 78% 19% .
42	LG	452	6% 79% 16% .
42	LI	452	8% 77% 19% .
42	LK	452	7% 79% 17% .
42	LM	452	8% 77% 17% . 5%
42	MC	452	8% 69% 27% . .
42	ME	452	9% 74% 21% 5%

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Mol	Chain	Length	Quality of chain
42	MG	452	5% 54% 33% 8% 5%
42	MI	452	9% 74% 21% 5%
42	MK	452	21% 62% 34% ..
42	MM	452	10% 62% 33% 5%
42	NA	452	11% 45% 33% 15% 5%
42	NC	452	8% 42% 36% 15% 5%
42	NE	452	13% 71% 23% 5%
42	NG	452	10% 49% 33% 11% ..
42	NI	452	11% 44% 35% 13% ..
42	NK	452	10% 43% 37% 14% 5%
42	OA	452	23% 66% 28% 5%
42	OC	452	14% 65% 28% 5%
42	OE	452	13% 63% 31% ..
42	OG	452	13% 48% 33% 13% ..
42	OI	452	12% 67% 27% ..
42	OK	452	14% 65% 29% 5%
42	PA	452	29% 29% 33% 16% 19%
42	PC	452	17% 37% 38% 19% ..
42	PE	452	12% 35% 40% 17% 5%
42	PG	452	12% 21% 46% 23% 6% 5%
42	PI	452	12% 23% 40% 26% 5% 6%
42	PK	452	17% 42% 36% 16% 5%
42	QC	452	27% 64% 29% 5%
42	QE	452	22% 63% 31% 5%
42	QG	452	27% 62% 31% 5%

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Mol	Chain	Length	Quality of chain
42	QI	452	17% 38% 38% 16% 5%
42	QK	452	24% 40% 39% 15% 5%
42	RC	452	30% 61% 34% ..
42	RE	452	19% 65% 29% 5%
42	RG	452	24% 60% 33% 5%
42	RI	452	20% 59% 35% 5%
42	RK	452	25% 61% 33% 5%
42	SC	452	25% 61% 34% 5%
42	SE	452	17% 42% 36% 15% 5%
42	SG	452	20% 66% 28% 5%
42	SI	452	14% 40% 35% 17% 6%
42	SK	452	21% 63% 31% ..
42	SM	452	57% 61% 33% 5%
42	TC	452	29% 63% 32% 5%
42	TE	452	18% 62% 33% ..
42	TG	452	25% 62% 31% 5%
42	TI	452	17% 41% 35% 17% 5%
42	TK	452	13% 43% 35% 14% ..
42	TM	452	40% 50% 43% 5%
42	UC	452	16% 44% 37% 12% ..
42	UE	452	15% 69% 26% ..
42	UG	452	12% 65% 27% ..
42	UI	452	16% 67% 27% ..
42	UK	452	14% 63% 31% ..
42	UM	452	19% 64% 30% 5%

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Mol	Chain	Length	Quality of chain
42	VC	452	 14% 75% 22% •
42	VE	452	 10% 72% 24% •
42	VG	452	 12% 72% 25% •
42	VI	452	 11% 71% 25% •
42	VK	452	 11% 51% 32% 13% ••
42	VM	452	 12% 68% 26% • 5%
42	WC	452	 10% 78% 19% •
42	WE	452	 5% 56% 30% 9% • 5%
42	WG	452	 10% 74% 23% ••
42	WI	452	 6% 53% 32% 10% • 5%
42	WK	452	 8% 72% 24% •
42	WM	452	 9% 70% 25% 5%

2 Entry composition [i](#)

There are 45 unique types of molecules in this entry. The entry contains 1132145 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 Armadillo repeat containing 4.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
1	1A	493	2437	1451	493	493	0	0

- Molecule 2 is a protein called Coiled-coil domain containing 114.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	1D	134	1109	675	215	216	3	0	0
2	1E	187	1569	955	314	294	6	0	0
2	1F	83	698	424	145	125	4	0	0

- Molecule 3 is a protein called Coiled-coil domain containing 173.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	1H	83	685	426	121	136	2	0	0
3	1I	377	3234	2007	605	612	10	0	0

- Molecule 4 is a protein called Uncharacterized protein C1orf158 homolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
4	1K	159	1348	877	241	229	1	0	0
4	1L	32	269	170	48	51		0	0

- Molecule 5 is a protein called Protein Flattop.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	1N	114	Total	C	N	O	S	0	0
			894	569	162	161	2		
5	1O	116	Total	C	N	O	S	0	0
			910	580	165	163	2		
5	1P	118	Total	C	N	O	S	0	0
			928	590	169	167	2		

- Molecule 6 is a protein called CFAP141.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	1R	91	Total	C	N	O	S	0	0
			785	495	151	133	6		

- Molecule 7 is a protein called Cilia and flagella associated protein 161.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	1T	255	Total	C	N	O	S	0	0
			2055	1302	369	373	11		
7	1U	255	Total	C	N	O	S	0	0
			2055	1302	369	373	11		

- Molecule 8 is a protein called Cilia- and flagella-associated protein 20.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	1W	136	Total	C	N	O	S	0	0
			1143	741	196	200	6		
8	1X	184	Total	C	N	O	S	0	0
			1532	984	268	273	7		
8	1Y	184	Total	C	N	O	S	0	0
			1532	984	268	273	7		
8	1Z	184	Total	C	N	O	S	0	0
			1532	984	268	273	7		
8	2A	184	Total	C	N	O	S	0	0
			1532	984	268	273	7		
8	2B	184	Total	C	N	O	S	0	0
			1532	984	268	273	7		

- Molecule 9 is a protein called EF-hand domain family member B.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	2D	451	Total	C	N	O	S	0	0
			3649	2326	650	660	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
9	2E	101	Total	C	N	O	S	0	0
			816	513	145	156	2		

- Molecule 10 is a protein called CFAP276.

Mol	Chain	Residues	Atoms				AltConf	Trace
10	2F	79	Total	C	N	O	0	0
			631	395	116	120		
10	2G	79	Total	C	N	O	0	0
			631	395	116	120		
10	2H	79	Total	C	N	O	0	0
			631	395	116	120		

- Molecule 11 is a protein called Cilia and flagella associated protein 45.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	2J	162	Total	C	N	O	S	0	0
			1349	837	245	258	9		
11	2K	296	Total	C	N	O	S	0	0
			2554	1543	517	485	9		
11	2L	275	Total	C	N	O	S	0	0
			2330	1426	438	450	16		
11	2M	186	Total	C	N	O	S	0	0
			1589	961	327	299	2		

- Molecule 12 is a protein called Cilia and flagella associated protein 52.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	2O	609	Total	C	N	O	S	0	0
			4713	2985	822	874	32		
12	2P	609	Total	C	N	O	S	0	0
			4713	2985	822	874	32		
12	2Q	609	Total	C	N	O	S	0	0
			4713	2985	822	874	32		

- Molecule 13 is a protein called Methyl-CpG binding domain protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	2S	281	Total	C	N	O	S	0	0
			2081	1267	402	403	9		
13	2T	199	Total	C	N	O	S	0	0
			1694	1032	321	329	12		

- Molecule 14 is a protein called Cilia and flagella associated protein 77.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
14	2V	34	287	183	56	46	2	0	0
14	2W	215	1756	1109	335	303	9	0	0
14	2X	210	1711	1080	326	296	9	0	0
14	2Y	165	1327	838	250	232	7	0	0

- Molecule 15 is a protein called CFAP95.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
15	3A	183	1487	932	258	288	9	0	0

- Molecule 16 is a protein called Cilia-and flagella-associated protein 96.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
16	3C	211	1693	1077	291	318	7	0	0
16	3D	71	531	339	94	95	3	0	0

- Molecule 17 is a protein called EF-hand calcium-binding domain-containing protein 1.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
17	3F	105	520	310	105	105	0	0

- Molecule 18 is a protein called EF-hand calcium binding domain 6.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
18	3H	97	481	287	97	97	0	0

- Molecule 19 is a protein called EF-hand domain containing 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
19	3J	431	3563	2303	597	649	14	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
19	3K	443	Total	C	N	O	S	0	0
			3652	2361	613	664	14		
19	3L	452	Total	C	N	O	S	0	0
			3726	2406	627	678	15		

- Molecule 20 is a protein called EFHC2.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	3N	286	Total	C	N	O	S	0	0
			2388	1534	406	438	10		
20	3O	579	Total	C	N	O	S	0	0
			4781	3067	810	878	26		
20	3P	581	Total	C	N	O	S	0	0
			4787	3070	808	884	25		
20	3Q	290	Total	C	N	O	S	0	0
			2409	1545	404	445	15		

- Molecule 21 is a protein called Enkurin, TRPC channel interacting protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	3S	70	Total	C	N	O	S	0	0
			563	356	95	110	2		
21	3T	235	Total	C	N	O	S	0	0
			1939	1242	336	354	7		
21	3U	235	Total	C	N	O	S	0	0
			1939	1242	336	354	7		
21	3V	205	Total	C	N	O	S	0	0
			1696	1087	295	307	7		

- Molecule 22 is a protein called Protein FAM166B.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	3X	129	Total	C	N	O	S	0	0
			1014	662	172	174	6		
22	3Y	142	Total	C	N	O	S	0	0
			1116	732	189	189	6		
22	3Z	135	Total	C	N	O	S	0	0
			1059	690	181	182	6		
22	4A	107	Total	C	N	O	S	0	0
			840	548	142	144	6		
22	4B	105	Total	C	N	O	S	0	0
			830	538	143	143	6		

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
22	4C	85	667	433	111	118	5	0	0

- Molecule 23 is a protein called Cilia- and flagella-associated protein 144.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
23	4D	116	992	627	186	177	2	0	0

- Molecule 24 is a protein called Meiosis-specific nuclear structural protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
24	4F	151	1261	772	241	244	4	0	0
24	4G	335	2883	1786	528	553	16	0	0

- Molecule 25 is a protein called Nucleoside diphosphate kinase 7.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
25	4I	372	2533	1589	451	481	12	0	0
25	4J	372	2947	1880	499	546	22	0	0

- Molecule 26 is a protein called Outer dynein arm-docking complex subunit 3.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
26	4K	132	1102	683	204	212	3	0	0
26	4L	228	1911	1190	353	364	4	0	0
26	4M	104	876	549	164	162	1	0	0

- Molecule 27 is a protein called PACRG protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
27	4O	219	1767	1144	298	316	9	0	0
27	4P	219	1767	1144	298	316	9	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
27	4Q	219	Total	C	N	O	S	0	0
			1767	1144	298	316	9		
27	4R	219	Total	C	N	O	S	0	0
			1767	1144	298	316	9		
27	4S	219	Total	C	N	O	S	0	0
			1767	1144	298	316	9		
27	4T	219	Total	C	N	O	S	0	0
			1767	1144	298	316	9		

- Molecule 28 is a protein called Pierce1.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	4V	37	Total	C	N	O	S	0	0
			304	191	52	58	3		
28	4W	79	Total	C	N	O	S	0	0
			654	415	118	119	2		

- Molecule 29 is a protein called Pierce2.

Mol	Chain	Residues	Atoms					AltConf	Trace
29	4Y	96	Total	C	N	O	S	0	0
			775	496	130	142	7		

- Molecule 30 is a protein called RIB43A-like with coiled-coils protein 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	5A	350	Total	C	N	O	S	0	0
			2915	1775	574	553	13		
30	5B	16	Total	C	N	O		0	0
			133	81	24	28			

- Molecule 31 is a protein called Sperm acrosome associated 9.

Mol	Chain	Residues	Atoms					AltConf	Trace
31	5D	157	Total	C	N	O	S	0	0
			1260	787	225	237	11		
31	5E	157	Total	C	N	O	S	0	0
			1254	784	222	237	11		
31	5F	159	Total	C	N	O	S	0	0
			1277	799	228	239	11		
31	5G	157	Total	C	N	O	S	0	0
			1260	787	225	237	11		

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Mol	Chain	Residues	Atoms					AltConf	Trace
31	5H	157	Total	C	N	O	S	0	0
			1260	787	225	237	11		
31	5I	157	Total	C	N	O	S	0	0
			1260	787	225	237	11		
31	5J	157	Total	C	N	O	S	0	0
			1260	787	225	237	11		

- Molecule 32 is a protein called Tektin-1.

Mol	Chain	Residues	Atoms					AltConf	Trace
32	5L	116	Total	C	N	O	S	0	0
			943	585	176	180	2		
32	5M	392	Total	C	N	O	S	0	0
			3231	2011	588	623	9		
32	5N	392	Total	C	N	O	S	0	0
			3231	2011	588	623	9		
32	5O	291	Total	C	N	O	S	0	0
			2414	1505	434	468	7		

- Molecule 33 is a protein called Tektin-2.

Mol	Chain	Residues	Atoms					AltConf	Trace
33	5Q	109	Total	C	N	O	S	0	0
			901	548	176	175	2		
33	5R	399	Total	C	N	O	S	0	0
			3250	2002	602	632	14		
33	5S	399	Total	C	N	O	S	0	0
			3250	2002	602	632	14		
33	5T	306	Total	C	N	O	S	0	0
			2498	1546	453	486	13		
33	5V	308	Total	C	N	O	S	0	0
			2513	1560	453	487	13		
33	5W	408	Total	C	N	O	S	0	0
			3336	2055	618	649	14		
33	5X	408	Total	C	N	O	S	0	0
			3336	2055	618	649	14		
33	5Y	107	Total	C	N	O	S	0	0
			877	533	170	172	2		

- Molecule 34 is a protein called Tektin-3.

Mol	Chain	Residues	Atoms					AltConf	Trace
34	6A	273	Total	C	N	O	S	0	0
			2240	1377	412	440	11		
34	6B	392	Total	C	N	O	S	0	0
			3189	1962	583	629	15		
34	6C	393	Total	C	N	O	S	0	0
			3200	1968	587	630	15		
34	6D	123	Total	C	N	O	S	0	0
			992	612	180	197	3		
34	6E	59	Total	C	N	O	S	0	0
			487	301	91	93	2		
34	6F	358	Total	C	N	O	S	0	0
			2896	1786	526	569	15		
34	6G	416	Total	C	N	O	S	0	0
			3386	2084	618	667	17		
34	6H	368	Total	C	N	O	S	0	0
			2989	1840	545	589	15		
34	6I	63	Total	C	N	O	S	0	0
			531	324	101	104	2		
34	6J	65	Total	C	N	O	S	0	0
			553	347	100	105	1		
34	6K	371	Total	C	N	O	S	0	0
			3022	1869	546	593	14		
34	6L	418	Total	C	N	O	S	0	0
			3411	2107	621	667	16		
34	6M	361	Total	C	N	O	S	0	0
			2923	1804	532	572	15		
34	6N	54	Total	C	N	O	S	0	0
			445	275	83	85	2		

- Molecule 35 is a protein called Tektin-4.

Mol	Chain	Residues	Atoms					AltConf	Trace
35	6P	180	Total	C	N	O	S	0	0
			1491	915	272	298	6		
35	6Q	410	Total	C	N	O	S	0	0
			3364	2070	628	651	15		
35	6R	410	Total	C	N	O	S	0	0
			3364	2070	628	651	15		
35	6S	254	Total	C	N	O	S	0	0
			2057	1269	390	389	9		
35	6T	236	Total	C	N	O	S	0	0
			1917	1184	365	359	9		
35	6U	419	Total	C	N	O	S	0	0
			3413	2097	638	663	15		

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Mol	Chain	Residues	Atoms					AltConf	Trace
35	6V	437	Total	C	N	O	S	0	0
			3571	2201	666	688	16		
35	6W	215	Total	C	N	O	S	0	0
			1766	1088	324	347	7		

- Molecule 36 is a protein called TTC25 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
36	6Y	192	Total	C	N	O	S	0	0
			1300	812	232	249	7		
36	6Z	192	Total	C	N	O	S	0	0
			1300	812	232	249	7		

- Molecule 37 is a protein called Ciliary microtubule associated protein 1A.

Mol	Chain	Residues	Atoms					AltConf	Trace
37	7C	119	Total	C	N	O	S	0	0
			898	571	159	163	5		
37	7D	80	Total	C	N	O	S	0	0
			618	404	113	99	2		
37	7E	85	Total	C	N	O	S	0	0
			625	398	111	113	3		
37	7F	67	Total	C	N	O	S	0	0
			519	338	89	91	1		

- Molecule 38 is a protein called Ciliary microtubule associated protein 1C.

Mol	Chain	Residues	Atoms					AltConf	Trace
38	7H	85	Total	C	N	O	S	0	0
			637	409	108	114	6		
38	7I	34	Total	C	N	O	S	0	0
			238	151	43	42	2		

- Molecule 39 is a protein called Cilia and flagella associated protein 90.

Mol	Chain	Residues	Atoms					AltConf	Trace
39	7K	107	Total	C	N	O	S	0	0
			878	543	174	160	1		
39	7L	46	Total	C	N	O	S	0	0
			382	249	65	67	1		

- Molecule 40 is a protein called Sperm associated antigen 8.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
40	7N	64	524	324	93	104	3	0	0

- Molecule 41 is a protein called Tubulin beta-4B chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
41	AB	436	3424	2150	584	664	26	0	0
41	AD	436	3424	2150	584	664	26	0	0
41	AF	436	3424	2150	584	664	26	0	0
41	AH	436	3424	2150	584	664	26	0	0
41	AJ	436	3424	2150	584	664	26	0	0
41	AL	436	3424	2150	584	664	26	0	0
41	BB	427	3356	2109	575	646	26	0	0
41	BD	427	3356	2109	575	646	26	0	0
41	BF	428	3361	2112	576	647	26	0	0
41	BH	427	3356	2109	575	646	26	0	0
41	BJ	427	3356	2109	575	646	26	0	0
41	BL	425	3340	2100	573	642	25	0	0
41	CB	426	3348	2105	574	643	26	0	0
41	CD	426	3348	2105	574	643	26	0	0
41	CF	428	3361	2112	576	647	26	0	0
41	CH	427	3356	2109	575	646	26	0	0
41	CJ	428	3361	2112	576	647	26	0	0
41	CL	425	3340	2100	573	642	25	0	0
41	DB	426	3348	2105	574	643	26	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
41	DD	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
41	DF	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
41	DH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
41	DJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
41	DL	425	Total 3340	C 2100	N 573	O 642	S 25	0	0
41	ED	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
41	EF	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
41	EH	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	EJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
41	EL	425	Total 3340	C 2100	N 573	O 642	S 25	0	0
41	FD	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
41	FF	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
41	FH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
41	FJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
41	FL	425	Total 3340	C 2100	N 573	O 642	S 25	0	0
41	GD	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
41	GF	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	GH	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	GJ	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	GL	425	Total 3340	C 2100	N 573	O 642	S 25	0	0
41	HB	426	Total 3348	C 2105	N 574	O 643	S 26	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
41	HD	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
41	HF	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	HH	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
41	HJ	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	HL	425	Total 3340	C 2100	N 573	O 642	S 25	0	0
41	ID	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
41	IF	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	IH	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
41	IJ	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	IL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
41	IN	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	JD	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
41	JF	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
41	JH	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
41	JJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
41	JL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
41	KD	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	KF	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
41	KH	429	Total 3368	C 2116	N 577	O 649	S 26	0	0
41	KJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
41	KL	429	Total 3368	C 2116	N 577	O 649	S 26	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
41	KN	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	LD	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
41	LF	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	LH	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	LJ	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	LL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
41	LN	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	MD	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
41	MF	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	MH	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	MJ	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
41	ML	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
41	MN	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
41	NB	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	ND	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
41	NF	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
41	NH	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	NJ	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	NL	396	Total 3118	C 1966	N 533	O 597	S 22	0	0
41	OB	425	Total 3339	C 2100	N 572	O 641	S 26	0	0
41	OD	424	Total 3327	C 2091	N 571	O 639	S 26	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
41	OF	425	Total 3339	C 2100	N 572	O 641	S 26	0	0
41	OH	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	OJ	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	OL	424	Total 3327	C 2091	N 571	O 639	S 26	0	0
41	PB	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
41	PD	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
41	PF	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	PH	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	PJ	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	PL	425	Total 3340	C 2100	N 573	O 642	S 25	0	0
41	QB	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	QD	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
41	QF	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	QH	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	QJ	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	QL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
41	RB	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	RD	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
41	RF	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	RH	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	RJ	428	Total 3361	C 2112	N 576	O 647	S 26	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
41	RL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
41	SD	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
41	SF	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	SH	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	SJ	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	SL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
41	TD	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
41	TF	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	TH	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	TJ	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	TL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
41	UD	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
41	UF	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	UH	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	UJ	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	UL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0
41	VD	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
41	VF	427	Total 3356	C 2109	N 575	O 646	S 26	0	0
41	VH	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	VJ	428	Total 3361	C 2112	N 576	O 647	S 26	0	0
41	VL	426	Total 3348	C 2105	N 574	O 643	S 26	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
41	WD	427	Total	C	N	O	S	0	0
			3356	2109	575	646	26		
41	WF	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
41	WH	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
41	WJ	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
41	WL	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		
41	WN	426	Total	C	N	O	S	0	0
			3348	2105	574	643	26		

- Molecule 42 is a protein called Tubulin alpha-1D chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
42	AC	440	Total	C	N	O	S	0	0
			3437	2175	584	655	23		
42	AE	440	Total	C	N	O	S	0	0
			3437	2175	584	655	23		
42	AG	440	Total	C	N	O	S	0	0
			3437	2175	584	655	23		
42	AI	440	Total	C	N	O	S	0	0
			3437	2175	584	655	23		
42	AK	440	Total	C	N	O	S	0	0
			3437	2175	584	655	23		
42	BC	440	Total	C	N	O	S	0	0
			3437	2175	584	655	23		
42	BE	433	Total	C	N	O	S	0	0
			3396	2151	576	646	23		
42	BG	440	Total	C	N	O	S	0	0
			3437	2175	584	655	23		
42	BI	430	Total	C	N	O	S	0	0
			3374	2138	573	640	23		
42	BK	439	Total	C	N	O	S	0	0
			3430	2170	583	654	23		
42	CC	438	Total	C	N	O	S	0	0
			3424	2167	582	652	23		
42	CE	438	Total	C	N	O	S	0	0
			3424	2167	582	652	23		
42	CG	439	Total	C	N	O	S	0	0
			3430	2170	583	654	23		

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
42	CI	439	Total 3430	C 2170	N 583	O 654	S 23	0	0
42	CK	439	Total 3430	C 2170	N 583	O 654	S 23	0	0
42	CM	439	Total 3430	C 2170	N 583	O 654	S 23	0	0
42	DC	429	Total 3366	C 2134	N 572	O 637	S 23	0	0
42	DE	430	Total 3372	C 2137	N 573	O 639	S 23	0	0
42	DG	431	Total 3379	C 2142	N 574	O 640	S 23	0	0
42	DI	429	Total 3364	C 2133	N 572	O 636	S 23	0	0
42	DK	430	Total 3372	C 2137	N 573	O 639	S 23	0	0
42	DM	430	Total 3372	C 2137	N 573	O 639	S 23	0	0
42	EC	439	Total 3430	C 2170	N 583	O 654	S 23	0	0
42	EE	441	Total 3446	C 2180	N 585	O 658	S 23	0	0
42	EG	434	Total 3404	C 2157	N 578	O 646	S 23	0	0
42	EI	436	Total 3408	C 2158	N 580	O 648	S 22	0	0
42	EK	440	Total 3437	C 2175	N 584	O 655	S 23	0	0
42	EM	428	Total 3358	C 2130	N 571	O 634	S 23	0	0
42	FC	431	Total 3379	C 2142	N 574	O 640	S 23	0	0
42	FE	425	Total 3339	C 2118	N 568	O 631	S 22	0	0
42	FG	426	Total 3346	C 2123	N 569	O 632	S 22	0	0
42	FI	427	Total 3347	C 2121	N 570	O 633	S 23	0	0
42	FK	424	Total 3326	C 2109	N 566	O 629	S 22	0	0
42	FM	429	Total 3365	C 2132	N 572	O 638	S 23	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
42	GC	440	Total 3437	C 2175	N 584	O 655	S 23	0	0
42	GE	430	Total 3371	C 2138	N 573	O 637	S 23	0	0
42	GG	433	Total 3393	C 2149	N 576	O 645	S 23	0	0
42	GI	429	Total 3365	C 2135	N 572	O 635	S 23	0	0
42	GK	429	Total 3364	C 2133	N 572	O 636	S 23	0	0
42	GM	439	Total 3430	C 2170	N 583	O 654	S 23	0	0
42	HC	427	Total 3350	C 2126	N 570	O 631	S 23	0	0
42	HE	430	Total 3374	C 2138	N 573	O 640	S 23	0	0
42	HG	430	Total 3371	C 2138	N 573	O 637	S 23	0	0
42	HI	430	Total 3371	C 2138	N 573	O 637	S 23	0	0
42	HK	431	Total 3379	C 2142	N 574	O 640	S 23	0	0
42	HM	429	Total 3365	C 2132	N 572	O 638	S 23	0	0
42	IC	429	Total 3365	C 2135	N 572	O 635	S 23	0	0
42	IE	432	Total 3388	C 2147	N 575	O 643	S 23	0	0
42	IG	440	Total 3437	C 2175	N 584	O 655	S 23	0	0
42	II	432	Total 3387	C 2146	N 575	O 643	S 23	0	0
42	IK	440	Total 3437	C 2175	N 584	O 655	S 23	0	0
42	IM	431	Total 3378	C 2140	N 574	O 641	S 23	0	0
42	JC	432	Total 3384	C 2143	N 575	O 643	S 23	0	0
42	JE	430	Total 3372	C 2137	N 573	O 639	S 23	0	0
42	JG	428	Total 3358	C 2130	N 571	O 634	S 23	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
42	JI	429	Total 3366	C 2134	N 572	O 637	S 23	0	0
42	JK	440	Total 3437	C 2175	N 584	O 655	S 23	0	0
42	JM	430	Total 3372	C 2137	N 573	O 639	S 23	0	0
42	KC	432	Total 3384	C 2143	N 575	O 643	S 23	0	0
42	KE	431	Total 3380	C 2141	N 574	O 642	S 23	0	0
42	KG	430	Total 3370	C 2136	N 573	O 638	S 23	0	0
42	KI	428	Total 3358	C 2130	N 571	O 634	S 23	0	0
42	KK	430	Total 3372	C 2137	N 573	O 639	S 23	0	0
42	KM	432	Total 3376	C 2138	N 575	O 641	S 22	0	0
42	LC	433	Total 3393	C 2149	N 576	O 645	S 23	0	0
42	LE	440	Total 3437	C 2175	N 584	O 655	S 23	0	0
42	LG	433	Total 3393	C 2149	N 576	O 645	S 23	0	0
42	LI	434	Total 3397	C 2151	N 577	O 646	S 23	0	0
42	LK	435	Total 3401	C 2153	N 578	O 647	S 23	0	0
42	LM	431	Total 3378	C 2140	N 574	O 641	S 23	0	0
42	MC	439	Total 3430	C 2170	N 583	O 654	S 23	0	0
42	ME	429	Total 3366	C 2134	N 572	O 637	S 23	0	0
42	MG	430	Total 3372	C 2137	N 573	O 639	S 23	0	0
42	MI	431	Total 3379	C 2142	N 574	O 640	S 23	0	0
42	MK	440	Total 3437	C 2175	N 584	O 655	S 23	0	0
42	MM	431	Total 3376	C 2138	N 574	O 642	S 22	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
42	NA	430	Total 3372	C 2136	N 573	O 641	S 22	0	0
42	NC	429	Total 3365	C 2135	N 572	O 635	S 23	0	0
42	NE	430	Total 3374	C 2140	N 573	O 638	S 23	0	0
42	NG	432	Total 3387	C 2146	N 575	O 643	S 23	0	0
42	NI	432	Total 3387	C 2146	N 575	O 643	S 23	0	0
42	NK	430	Total 3374	C 2138	N 573	O 640	S 23	0	0
42	OA	428	Total 3358	C 2129	N 571	O 636	S 22	0	0
42	OC	429	Total 3366	C 2134	N 572	O 637	S 23	0	0
42	OE	433	Total 3396	C 2151	N 576	O 646	S 23	0	0
42	OG	433	Total 3391	C 2148	N 576	O 644	S 23	0	0
42	OI	432	Total 3387	C 2146	N 575	O 643	S 23	0	0
42	OK	431	Total 3380	C 2141	N 574	O 642	S 23	0	0
42	PA	368	Total 2872	C 1820	N 487	O 545	S 20	0	0
42	PC	432	Total 3386	C 2144	N 575	O 644	S 23	0	0
42	PE	431	Total 3380	C 2143	N 574	O 640	S 23	0	0
42	PG	430	Total 3371	C 2138	N 573	O 637	S 23	0	0
42	PI	427	Total 3349	C 2123	N 570	O 634	S 22	0	0
42	PK	430	Total 3371	C 2138	N 573	O 637	S 23	0	0
42	QC	430	Total 3372	C 2137	N 573	O 639	S 23	0	0
42	QE	430	Total 3372	C 2137	N 573	O 639	S 23	0	0
42	QG	431	Total 3380	C 2141	N 574	O 642	S 23	0	0

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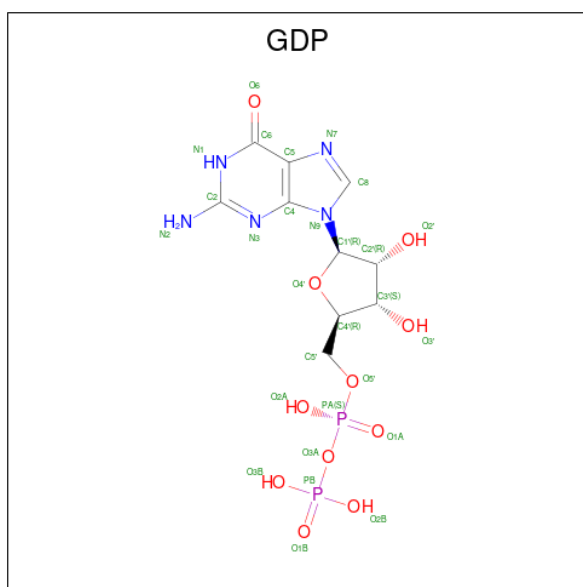
Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
42	QI	429	Total 3366	C 2134	N 572	O 637	S 23	0	0
42	QK	431	Total 3380	C 2141	N 574	O 642	S 23	0	0
42	RC	432	Total 3387	C 2146	N 575	O 643	S 23	0	0
42	RE	428	Total 3358	C 2130	N 571	O 634	S 23	0	0
42	RG	430	Total 3372	C 2137	N 573	O 639	S 23	0	0
42	RI	431	Total 3379	C 2142	N 574	O 640	S 23	0	0
42	RK	431	Total 3379	C 2142	N 574	O 640	S 23	0	0
42	SC	430	Total 3372	C 2137	N 573	O 639	S 23	0	0
42	SE	431	Total 3381	C 2142	N 574	O 642	S 23	0	0
42	SG	431	Total 3379	C 2142	N 574	O 640	S 23	0	0
42	SI	427	Total 3358	C 2129	N 569	O 637	S 23	0	0
42	SK	432	Total 3387	C 2146	N 575	O 643	S 23	0	0
42	SM	431	Total 3378	C 2140	N 574	O 641	S 23	0	0
42	TC	430	Total 3371	C 2138	N 573	O 637	S 23	0	0
42	TE	432	Total 3388	C 2147	N 575	O 643	S 23	0	0
42	TG	430	Total 3371	C 2138	N 573	O 637	S 23	0	0
42	TI	430	Total 3371	C 2138	N 573	O 637	S 23	0	0
42	TK	432	Total 3387	C 2146	N 575	O 643	S 23	0	0
42	TM	430	Total 3372	C 2137	N 573	O 639	S 23	0	0
42	UC	433	Total 3393	C 2149	N 576	O 645	S 23	0	0
42	UE	432	Total 3388	C 2147	N 575	O 643	S 23	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
42	UG	433	3393	2149	576	645	23	0	0
42	UI	433	3393	2149	576	645	23	0	0
42	UK	433	3391	2148	576	644	23	0	0
42	UM	431	3378	2140	574	641	23	0	0
42	VC	440	3437	2175	584	655	23	0	0
42	VE	433	3396	2151	576	646	23	0	0
42	VG	440	3437	2175	584	655	23	0	0
42	VI	433	3393	2149	576	645	23	0	0
42	VK	440	3437	2175	584	655	23	0	0
42	VM	430	3372	2137	573	639	23	0	0
42	WC	440	3437	2175	584	655	23	0	0
42	WE	431	3380	2141	574	642	23	0	0
42	WG	439	3430	2170	583	654	23	0	0
42	WI	431	3380	2141	574	642	23	0	0
42	WK	438	3424	2167	582	652	23	0	0
42	WM	431	3378	2140	574	641	23	0	0

- Molecule 43 is GUANOSINE-5'-DIPHOSPHATE (three-letter code: GDP) (formula: $C_{10}H_{15}N_5O_{11}P_2$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
43	AB	1	Total	C	N	O	P	0
			28	10	5	11	2	
43	AD	1	Total	C	N	O	P	0
			28	10	5	11	2	
43	AF	1	Total	C	N	O	P	0
			28	10	5	11	2	
43	AH	1	Total	C	N	O	P	0
			28	10	5	11	2	
43	AJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
43	AL	1	Total	C	N	O	P	0
			28	10	5	11	2	
43	BB	1	Total	C	N	O	P	0
			28	10	5	11	2	
43	BD	1	Total	C	N	O	P	0
			28	10	5	11	2	
43	BF	1	Total	C	N	O	P	0
			28	10	5	11	2	
43	BH	1	Total	C	N	O	P	0
			28	10	5	11	2	
43	BJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
43	BL	1	Total	C	N	O	P	0
			28	10	5	11	2	
43	CB	1	Total	C	N	O	P	0
			28	10	5	11	2	
43	CD	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
43	CF	1	Total 28	C 10	N 5	O 11	P 2	0
43	CH	1	Total 28	C 10	N 5	O 11	P 2	0
43	CJ	1	Total 28	C 10	N 5	O 11	P 2	0
43	CL	1	Total 28	C 10	N 5	O 11	P 2	0
43	DB	1	Total 28	C 10	N 5	O 11	P 2	0
43	DD	1	Total 28	C 10	N 5	O 11	P 2	0
43	DF	1	Total 28	C 10	N 5	O 11	P 2	0
43	DH	1	Total 28	C 10	N 5	O 11	P 2	0
43	DJ	1	Total 28	C 10	N 5	O 11	P 2	0
43	DL	1	Total 28	C 10	N 5	O 11	P 2	0
43	ED	1	Total 28	C 10	N 5	O 11	P 2	0
43	EF	1	Total 28	C 10	N 5	O 11	P 2	0
43	EH	1	Total 28	C 10	N 5	O 11	P 2	0
43	EJ	1	Total 28	C 10	N 5	O 11	P 2	0
43	EL	1	Total 28	C 10	N 5	O 11	P 2	0
43	FD	1	Total 28	C 10	N 5	O 11	P 2	0
43	FF	1	Total 28	C 10	N 5	O 11	P 2	0
43	FH	1	Total 28	C 10	N 5	O 11	P 2	0
43	FJ	1	Total 28	C 10	N 5	O 11	P 2	0
43	FL	1	Total 28	C 10	N 5	O 11	P 2	0
43	GD	1	Total 28	C 10	N 5	O 11	P 2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
43	GF	1	28	10	5	11	2	0
43	GH	1	28	10	5	11	2	0
43	GJ	1	28	10	5	11	2	0
43	GL	1	28	10	5	11	2	0
43	HB	1	28	10	5	11	2	0
43	HD	1	28	10	5	11	2	0
43	HF	1	28	10	5	11	2	0
43	HH	1	28	10	5	11	2	0
43	HJ	1	28	10	5	11	2	0
43	HL	1	28	10	5	11	2	0
43	ID	1	28	10	5	11	2	0
43	IF	1	28	10	5	11	2	0
43	IH	1	28	10	5	11	2	0
43	IJ	1	28	10	5	11	2	0
43	IL	1	28	10	5	11	2	0
43	IN	1	28	10	5	11	2	0
43	JD	1	28	10	5	11	2	0
43	JF	1	28	10	5	11	2	0
43	JH	1	28	10	5	11	2	0
43	JJ	1	28	10	5	11	2	0
43	JL	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
43	KD	1	Total 28	C 10	N 5	O 11	P 2	0
43	KF	1	Total 28	C 10	N 5	O 11	P 2	0
43	KG	1	Total 28	C 10	N 5	O 11	P 2	0
43	KJ	1	Total 28	C 10	N 5	O 11	P 2	0
43	KL	1	Total 28	C 10	N 5	O 11	P 2	0
43	KN	1	Total 28	C 10	N 5	O 11	P 2	0
43	LD	1	Total 28	C 10	N 5	O 11	P 2	0
43	LF	1	Total 28	C 10	N 5	O 11	P 2	0
43	LH	1	Total 28	C 10	N 5	O 11	P 2	0
43	LJ	1	Total 28	C 10	N 5	O 11	P 2	0
43	LL	1	Total 28	C 10	N 5	O 11	P 2	0
43	LN	1	Total 28	C 10	N 5	O 11	P 2	0
43	MD	1	Total 28	C 10	N 5	O 11	P 2	0
43	MF	1	Total 28	C 10	N 5	O 11	P 2	0
43	MH	1	Total 28	C 10	N 5	O 11	P 2	0
43	MJ	1	Total 28	C 10	N 5	O 11	P 2	0
43	ML	1	Total 28	C 10	N 5	O 11	P 2	0
43	MN	1	Total 28	C 10	N 5	O 11	P 2	0
43	NB	1	Total 28	C 10	N 5	O 11	P 2	0
43	ND	1	Total 28	C 10	N 5	O 11	P 2	0
43	NF	1	Total 28	C 10	N 5	O 11	P 2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
43	NH	1	28	10	5	11	2	0
43	NJ	1	28	10	5	11	2	0
43	NL	1	28	10	5	11	2	0
43	OB	1	28	10	5	11	2	0
43	OD	1	28	10	5	11	2	0
43	OF	1	28	10	5	11	2	0
43	OH	1	28	10	5	11	2	0
43	OJ	1	28	10	5	11	2	0
43	OL	1	28	10	5	11	2	0
43	PB	1	28	10	5	11	2	0
43	PD	1	28	10	5	11	2	0
43	PF	1	28	10	5	11	2	0
43	PH	1	28	10	5	11	2	0
43	PJ	1	28	10	5	11	2	0
43	PL	1	28	10	5	11	2	0
43	QB	1	28	10	5	11	2	0
43	QD	1	28	10	5	11	2	0
43	QF	1	28	10	5	11	2	0
43	QH	1	28	10	5	11	2	0
43	QJ	1	28	10	5	11	2	0
43	QL	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
43	RB	1	28	10	5	11	2	0
43	RD	1	28	10	5	11	2	0
43	RF	1	28	10	5	11	2	0
43	RH	1	28	10	5	11	2	0
43	RJ	1	28	10	5	11	2	0
43	RL	1	28	10	5	11	2	0
43	SD	1	28	10	5	11	2	0
43	SF	1	28	10	5	11	2	0
43	SH	1	28	10	5	11	2	0
43	SJ	1	28	10	5	11	2	0
43	SL	1	28	10	5	11	2	0
43	TD	1	28	10	5	11	2	0
43	TF	1	28	10	5	11	2	0
43	TH	1	28	10	5	11	2	0
43	TJ	1	28	10	5	11	2	0
43	TL	1	28	10	5	11	2	0
43	UD	1	28	10	5	11	2	0
43	UF	1	28	10	5	11	2	0
43	UH	1	28	10	5	11	2	0
43	UJ	1	28	10	5	11	2	0
43	UL	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
43	VD	1	28	10	5	11	2	0
43	VF	1	28	10	5	11	2	0
43	VH	1	28	10	5	11	2	0
43	VJ	1	28	10	5	11	2	0
43	VL	1	28	10	5	11	2	0
43	WD	1	28	10	5	11	2	0
43	WF	1	28	10	5	11	2	0
43	WH	1	28	10	5	11	2	0
43	WJ	1	28	10	5	11	2	0
43	WL	1	28	10	5	11	2	0
43	WN	1	28	10	5	11	2	0

- Molecule 44 is MAGNESIUM ION (three-letter code: MG) (formula: Mg) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
44	AB	1	1	1	0
44	AE	1	1	1	0
44	AG	1	1	1	0
44	AI	1	1	1	0
44	AK	1	1	1	0
44	BC	1	1	1	0
44	BE	1	1	1	0
44	BG	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
44	BI	1	1	1	0
44	BK	1	1	1	0
44	CC	1	1	1	0
44	CE	1	1	1	0
44	CI	1	1	1	0
44	CK	1	1	1	0
44	CM	1	1	1	0
44	DM	1	1	1	0
44	EK	1	1	1	0
44	FC	1	1	1	0
44	FD	1	1	1	0
44	FG	1	1	1	0
44	FI	1	1	1	0
44	FK	1	1	1	0
44	FL	1	1	1	0
44	GC	1	1	1	0
44	GE	1	1	1	0
44	GG	1	1	1	0
44	GI	1	1	1	0
44	GK	1	1	1	0
44	GM	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
44	HC	1	1	1	0
44	HE	1	1	1	0
44	HG	1	1	1	0
44	HI	1	1	1	0
44	HK	1	1	1	0
44	HM	1	1	1	0
44	IC	1	1	1	0
44	IE	1	1	1	0
44	IG	1	1	1	0
44	IK	1	1	1	0
44	IL	1	1	1	0
44	JC	1	1	1	0
44	JE	1	1	1	0
44	JG	1	1	1	0
44	JI	1	1	1	0
44	JK	1	1	1	0
44	JM	1	1	1	0
44	KC	1	1	1	0
44	KE	1	1	1	0
44	KG	1	1	1	0
44	KI	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
44	KK	1	1	1	0
44	KM	1	1	1	0
44	LC	1	1	1	0
44	LD	1	1	1	0
44	LG	1	1	1	0
44	LI	1	1	1	0
44	LK	1	1	1	0
44	LM	1	1	1	0
44	MC	1	1	1	0
44	ME	1	1	1	0
44	MH	1	1	1	0
44	MK	1	1	1	0
44	MM	1	1	1	0
44	NA	1	1	1	0
44	NB	1	1	1	0
44	NE	1	1	1	0
44	NG	1	1	1	0
44	NI	1	1	1	0
44	NK	1	1	1	0
44	OA	1	1	1	0
44	OC	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
44	OE	1	1	1	0
44	OI	1	1	1	0
44	OK	1	1	1	0
44	PC	1	1	1	0
44	PE	1	1	1	0
44	PG	1	1	1	0
44	PI	1	1	1	0
44	SC	1	1	1	0
44	SD	1	1	1	0
44	SF	1	1	1	0
44	SH	1	1	1	0
44	SJ	1	1	1	0
44	TC	1	1	1	0
44	TD	1	1	1	0
44	TF	1	1	1	0
44	TI	1	1	1	0
44	TK	1	1	1	0
44	TL	1	1	1	0
44	UE	1	1	1	0
44	UG	1	1	1	0
44	UI	1	1	1	0

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Mol	Chain	Residues	Atoms		AltConf
44	UK	1	Total 1	Mg 1	0
44	UM	1	Total 1	Mg 1	0
44	VC	1	Total 1	Mg 1	0
44	VE	1	Total 1	Mg 1	0
44	VG	1	Total 1	Mg 1	0
44	VI	1	Total 1	Mg 1	0
44	VJ	1	Total 1	Mg 1	0
44	VM	1	Total 1	Mg 1	0
44	WC	1	Total 1	Mg 1	0
44	WD	1	Total 1	Mg 1	0
44	WG	1	Total 1	Mg 1	0
44	WI	1	Total 1	Mg 1	0
44	WK	1	Total 1	Mg 1	0
44	WM	1	Total 1	Mg 1	0

- Molecule 45 is GUANOSINE-5'-TRIPHOSPHATE (three-letter code: GTP) (formula: $C_{10}H_{16}N_5O_{14}P_3$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
45	AC	1	Total 32	C 10	N 5	O 14	P 3	0
45	AE	1	Total 32	C 10	N 5	O 14	P 3	0
45	AF	1	Total 32	C 10	N 5	O 14	P 3	0
45	AI	1	Total 32	C 10	N 5	O 14	P 3	0
45	AK	1	Total 32	C 10	N 5	O 14	P 3	0
45	BC	1	Total 32	C 10	N 5	O 14	P 3	0
45	BE	1	Total 32	C 10	N 5	O 14	P 3	0
45	BG	1	Total 32	C 10	N 5	O 14	P 3	0
45	BI	1	Total 32	C 10	N 5	O 14	P 3	0
45	BK	1	Total 32	C 10	N 5	O 14	P 3	0
45	CC	1	Total 32	C 10	N 5	O 14	P 3	0
45	CE	1	Total 32	C 10	N 5	O 14	P 3	0
45	CG	1	Total 32	C 10	N 5	O 14	P 3	0
45	CI	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
45	CK	1	Total 32	C 10	N 5	O 14	P 3	0
45	CM	1	Total 32	C 10	N 5	O 14	P 3	0
45	DC	1	Total 32	C 10	N 5	O 14	P 3	0
45	DE	1	Total 32	C 10	N 5	O 14	P 3	0
45	DG	1	Total 32	C 10	N 5	O 14	P 3	0
45	DI	1	Total 32	C 10	N 5	O 14	P 3	0
45	DK	1	Total 32	C 10	N 5	O 14	P 3	0
45	DM	1	Total 32	C 10	N 5	O 14	P 3	0
45	EC	1	Total 32	C 10	N 5	O 14	P 3	0
45	EE	1	Total 32	C 10	N 5	O 14	P 3	0
45	EG	1	Total 32	C 10	N 5	O 14	P 3	0
45	EI	1	Total 32	C 10	N 5	O 14	P 3	0
45	EK	1	Total 32	C 10	N 5	O 14	P 3	0
45	EM	1	Total 32	C 10	N 5	O 14	P 3	0
45	FC	1	Total 32	C 10	N 5	O 14	P 3	0
45	FE	1	Total 32	C 10	N 5	O 14	P 3	0
45	FF	1	Total 32	C 10	N 5	O 14	P 3	0
45	FI	1	Total 32	C 10	N 5	O 14	P 3	0
45	FK	1	Total 32	C 10	N 5	O 14	P 3	0
45	FM	1	Total 32	C 10	N 5	O 14	P 3	0
45	GC	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
45	GE	1	Total 32	C 10	N 5	O 14	P 3	0
45	GF	1	Total 32	C 10	N 5	O 14	P 3	0
45	GI	1	Total 32	C 10	N 5	O 14	P 3	0
45	GK	1	Total 32	C 10	N 5	O 14	P 3	0
45	GM	1	Total 32	C 10	N 5	O 14	P 3	0
45	HC	1	Total 32	C 10	N 5	O 14	P 3	0
45	HE	1	Total 32	C 10	N 5	O 14	P 3	0
45	HG	1	Total 32	C 10	N 5	O 14	P 3	0
45	HI	1	Total 32	C 10	N 5	O 14	P 3	0
45	HK	1	Total 32	C 10	N 5	O 14	P 3	0
45	HM	1	Total 32	C 10	N 5	O 14	P 3	0
45	IC	1	Total 32	C 10	N 5	O 14	P 3	0
45	IE	1	Total 32	C 10	N 5	O 14	P 3	0
45	IG	1	Total 32	C 10	N 5	O 14	P 3	0
45	II	1	Total 32	C 10	N 5	O 14	P 3	0
45	IK	1	Total 32	C 10	N 5	O 14	P 3	0
45	IM	1	Total 32	C 10	N 5	O 14	P 3	0
45	JC	1	Total 32	C 10	N 5	O 14	P 3	0
45	JE	1	Total 32	C 10	N 5	O 14	P 3	0
45	JG	1	Total 32	C 10	N 5	O 14	P 3	0
45	JI	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
45	JK	1	Total 32	C 10	N 5	O 14	P 3	0
45	JM	1	Total 32	C 10	N 5	O 14	P 3	0
45	KC	1	Total 32	C 10	N 5	O 14	P 3	0
45	KE	1	Total 32	C 10	N 5	O 14	P 3	0
45	KG	1	Total 32	C 10	N 5	O 14	P 3	0
45	KI	1	Total 32	C 10	N 5	O 14	P 3	0
45	KK	1	Total 32	C 10	N 5	O 14	P 3	0
45	KM	1	Total 32	C 10	N 5	O 14	P 3	0
45	LC	1	Total 32	C 10	N 5	O 14	P 3	0
45	LE	1	Total 32	C 10	N 5	O 14	P 3	0
45	LF	1	Total 32	C 10	N 5	O 14	P 3	0
45	LI	1	Total 32	C 10	N 5	O 14	P 3	0
45	LK	1	Total 32	C 10	N 5	O 14	P 3	0
45	LM	1	Total 32	C 10	N 5	O 14	P 3	0
45	MC	1	Total 32	C 10	N 5	O 14	P 3	0
45	ME	1	Total 32	C 10	N 5	O 14	P 3	0
45	MG	1	Total 32	C 10	N 5	O 14	P 3	0
45	MI	1	Total 32	C 10	N 5	O 14	P 3	0
45	MK	1	Total 32	C 10	N 5	O 14	P 3	0
45	MM	1	Total 32	C 10	N 5	O 14	P 3	0
45	NA	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
45	NC	1	Total 32	C 10	N 5	O 14	P 3	0
45	NE	1	Total 32	C 10	N 5	O 14	P 3	0
45	NG	1	Total 32	C 10	N 5	O 14	P 3	0
45	NI	1	Total 32	C 10	N 5	O 14	P 3	0
45	NK	1	Total 32	C 10	N 5	O 14	P 3	0
45	OA	1	Total 32	C 10	N 5	O 14	P 3	0
45	OC	1	Total 32	C 10	N 5	O 14	P 3	0
45	OE	1	Total 32	C 10	N 5	O 14	P 3	0
45	OG	1	Total 32	C 10	N 5	O 14	P 3	0
45	OI	1	Total 32	C 10	N 5	O 14	P 3	0
45	OK	1	Total 32	C 10	N 5	O 14	P 3	0
45	PA	1	Total 32	C 10	N 5	O 14	P 3	0
45	PC	1	Total 32	C 10	N 5	O 14	P 3	0
45	PE	1	Total 32	C 10	N 5	O 14	P 3	0
45	PG	1	Total 32	C 10	N 5	O 14	P 3	0
45	PI	1	Total 32	C 10	N 5	O 14	P 3	0
45	PK	1	Total 32	C 10	N 5	O 14	P 3	0
45	QC	1	Total 32	C 10	N 5	O 14	P 3	0
45	QE	1	Total 32	C 10	N 5	O 14	P 3	0
45	QG	1	Total 32	C 10	N 5	O 14	P 3	0
45	QI	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
45	QK	1	Total 32	C 10	N 5	O 14	P 3	0
45	RC	1	Total 32	C 10	N 5	O 14	P 3	0
45	RE	1	Total 32	C 10	N 5	O 14	P 3	0
45	RG	1	Total 32	C 10	N 5	O 14	P 3	0
45	RI	1	Total 32	C 10	N 5	O 14	P 3	0
45	RK	1	Total 32	C 10	N 5	O 14	P 3	0
45	SC	1	Total 32	C 10	N 5	O 14	P 3	0
45	SE	1	Total 32	C 10	N 5	O 14	P 3	0
45	SG	1	Total 32	C 10	N 5	O 14	P 3	0
45	SI	1	Total 32	C 10	N 5	O 14	P 3	0
45	SK	1	Total 32	C 10	N 5	O 14	P 3	0
45	SM	1	Total 32	C 10	N 5	O 14	P 3	0
45	TC	1	Total 32	C 10	N 5	O 14	P 3	0
45	TE	1	Total 32	C 10	N 5	O 14	P 3	0
45	TG	1	Total 32	C 10	N 5	O 14	P 3	0
45	TI	1	Total 32	C 10	N 5	O 14	P 3	0
45	TK	1	Total 32	C 10	N 5	O 14	P 3	0
45	TM	1	Total 32	C 10	N 5	O 14	P 3	0
45	UC	1	Total 32	C 10	N 5	O 14	P 3	0
45	UE	1	Total 32	C 10	N 5	O 14	P 3	0
45	UG	1	Total 32	C 10	N 5	O 14	P 3	0

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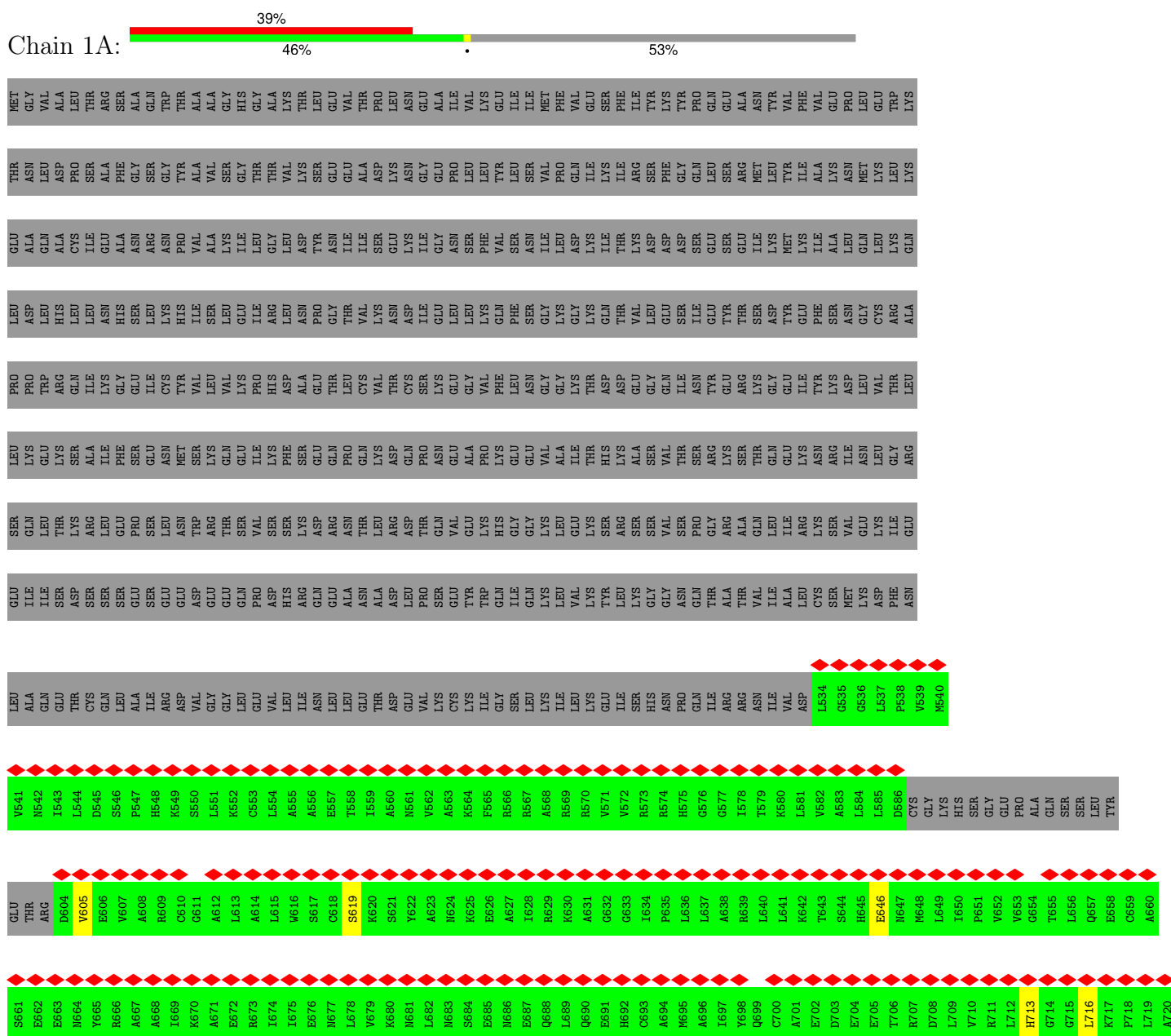
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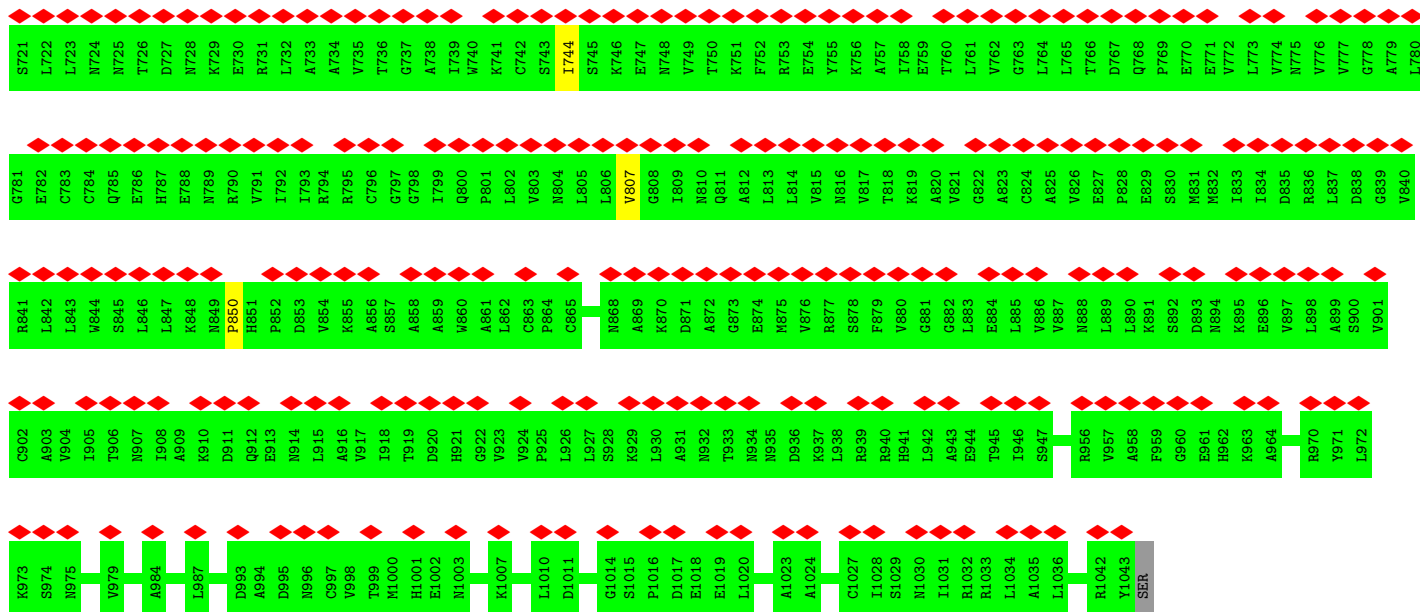
Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
45	UI	1	Total 32	C 10	N 5	O 14	P 3	0
45	UK	1	Total 32	C 10	N 5	O 14	P 3	0
45	UM	1	Total 32	C 10	N 5	O 14	P 3	0
45	VC	1	Total 32	C 10	N 5	O 14	P 3	0
45	VE	1	Total 32	C 10	N 5	O 14	P 3	0
45	VG	1	Total 32	C 10	N 5	O 14	P 3	0
45	VI	1	Total 32	C 10	N 5	O 14	P 3	0
45	VK	1	Total 32	C 10	N 5	O 14	P 3	0
45	VM	1	Total 32	C 10	N 5	O 14	P 3	0
45	WC	1	Total 32	C 10	N 5	O 14	P 3	0
45	WE	1	Total 32	C 10	N 5	O 14	P 3	0
45	WG	1	Total 32	C 10	N 5	O 14	P 3	0
45	WI	1	Total 32	C 10	N 5	O 14	P 3	0
45	WK	1	Total 32	C 10	N 5	O 14	P 3	0
45	WM	1	Total 32	C 10	N 5	O 14	P 3	0

3 Residue-property plots i

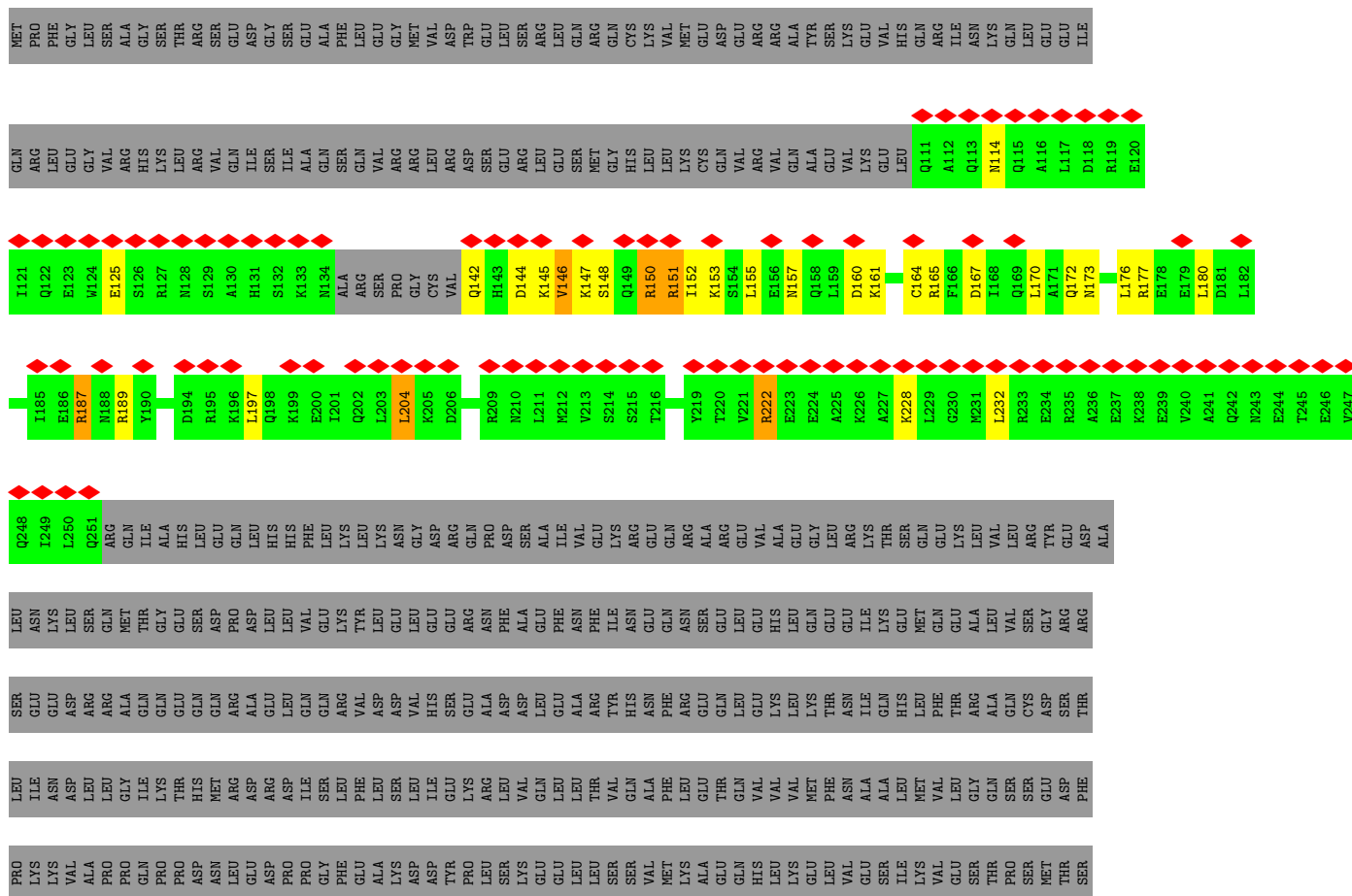
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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

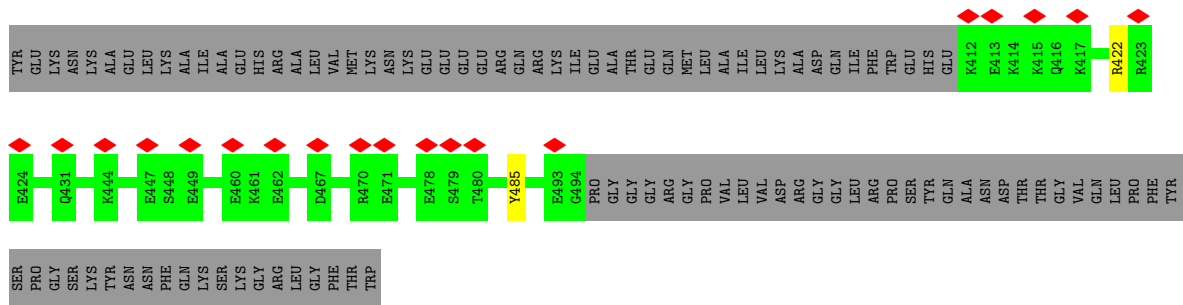
- Molecule 1: Armadillo repeat containing 4



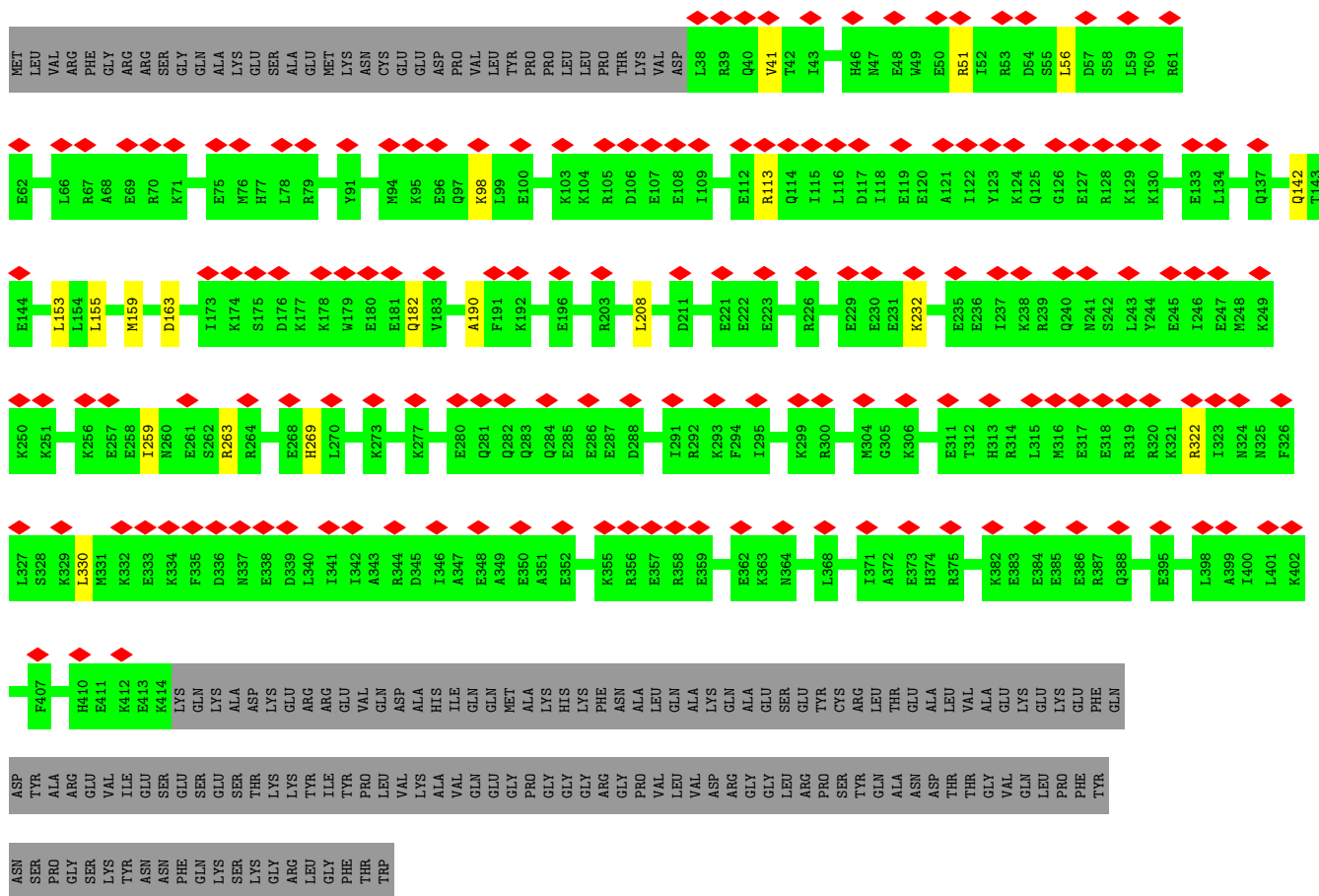


● Molecule 2: Coiled-coil domain containing 114

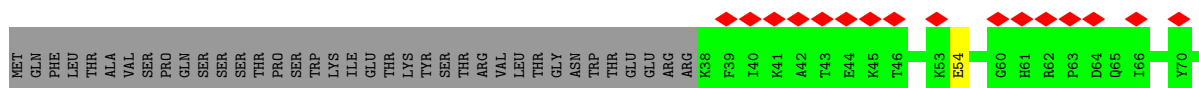
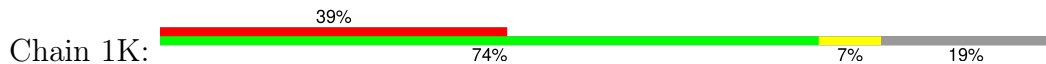


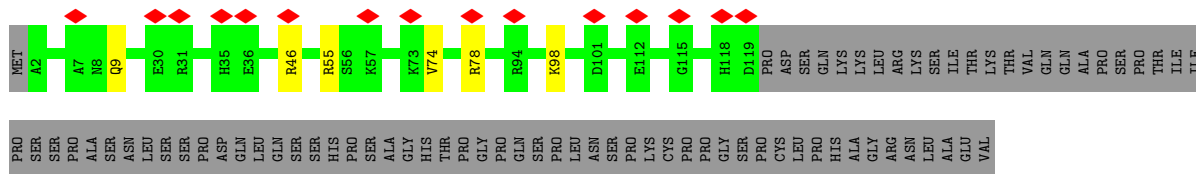


• Molecule 3: Coiled-coil domain containing 173

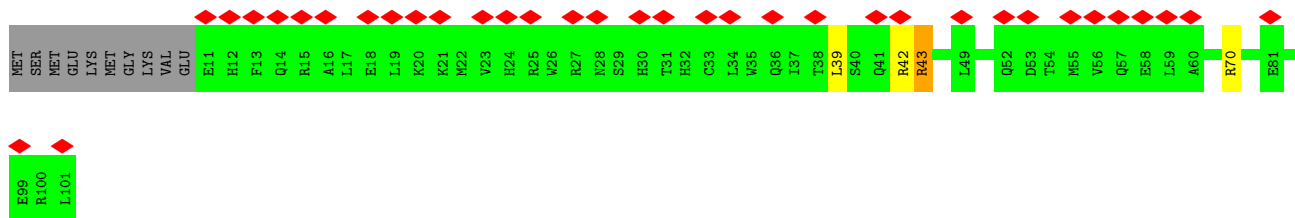
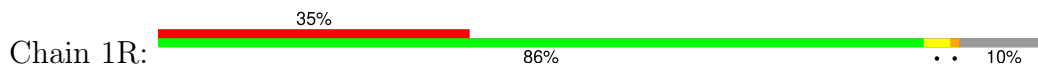


• Molecule 4: Uncharacterized protein C1orf158 homolog

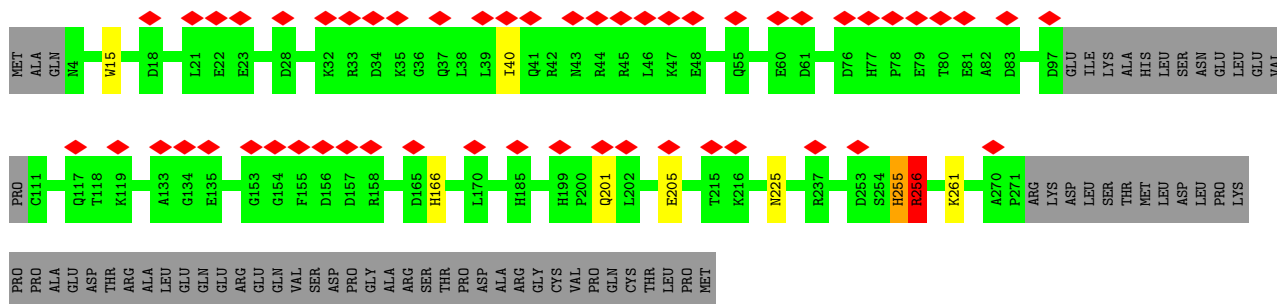
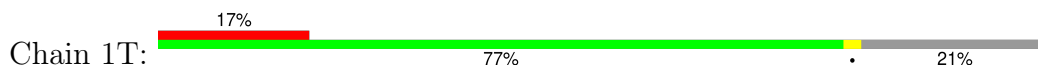




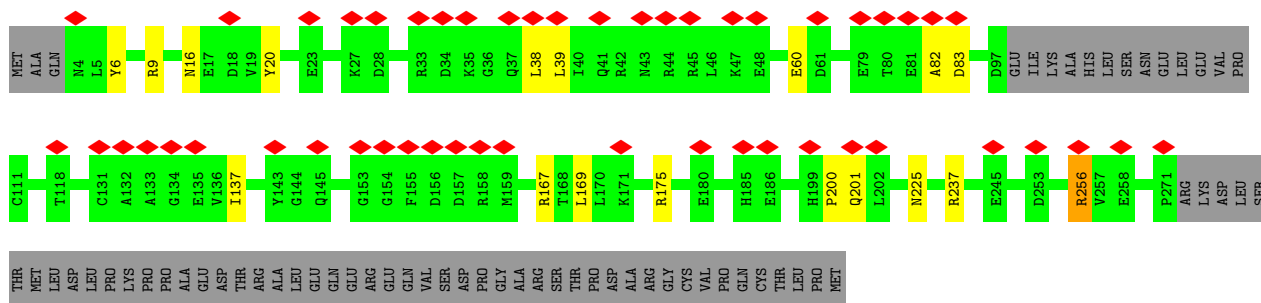
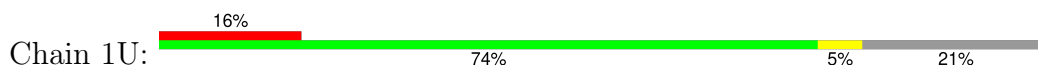
• Molecule 6: CFAP141



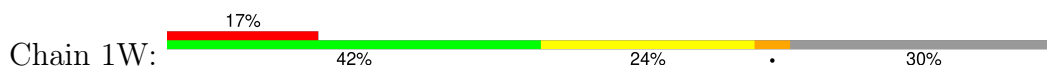
• Molecule 7: Cilia and flagella associated protein 161

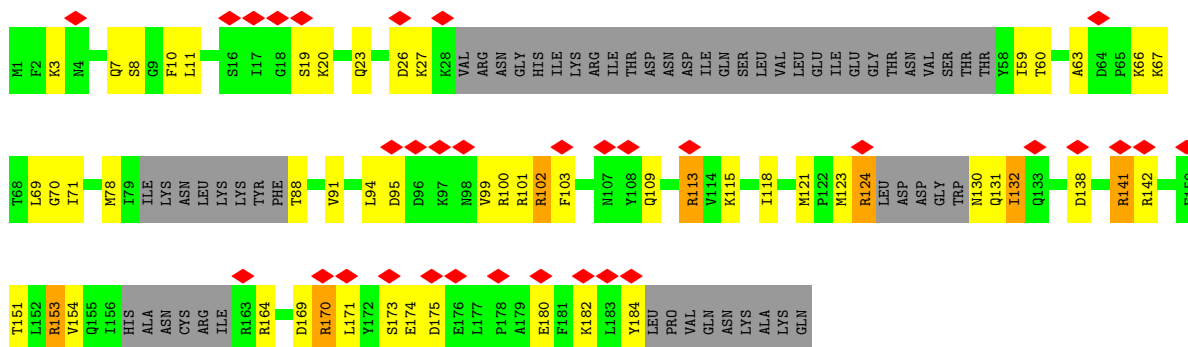


• Molecule 7: Cilia and flagella associated protein 161

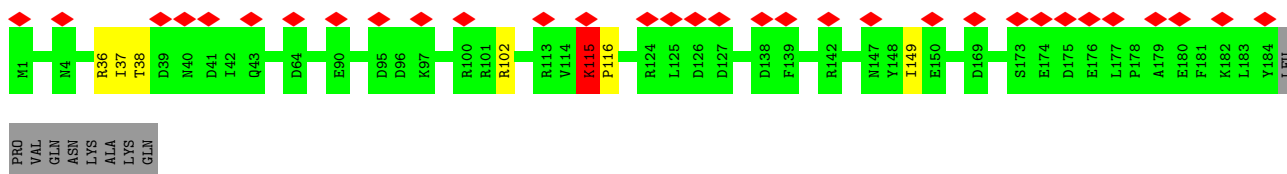
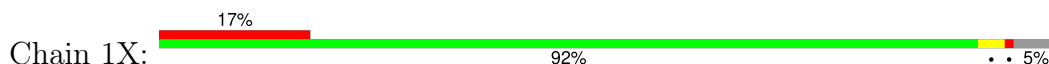


• Molecule 8: Cilia- and flagella-associated protein 20

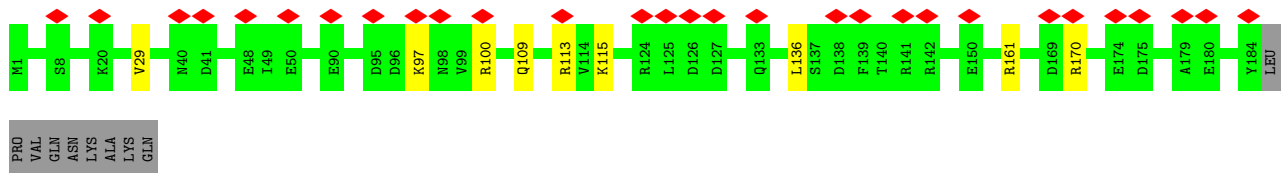
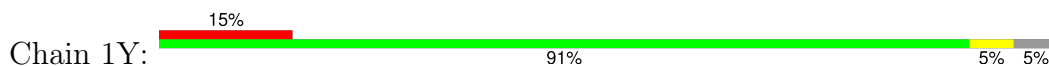




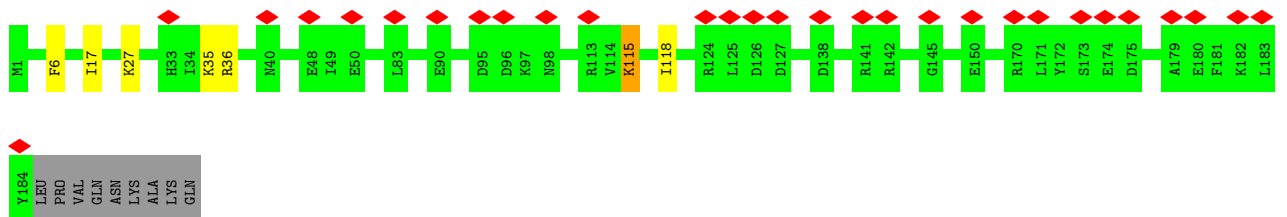
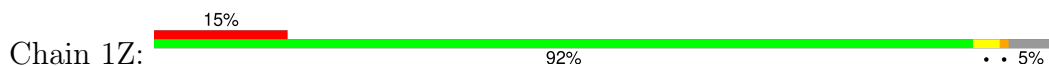
• Molecule 8: Cilia- and flagella-associated protein 20



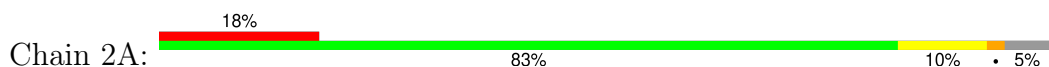
• Molecule 8: Cilia- and flagella-associated protein 20

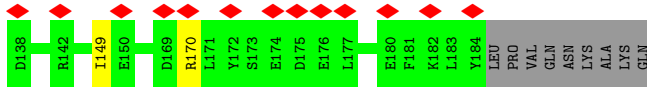


• Molecule 8: Cilia- and flagella-associated protein 20

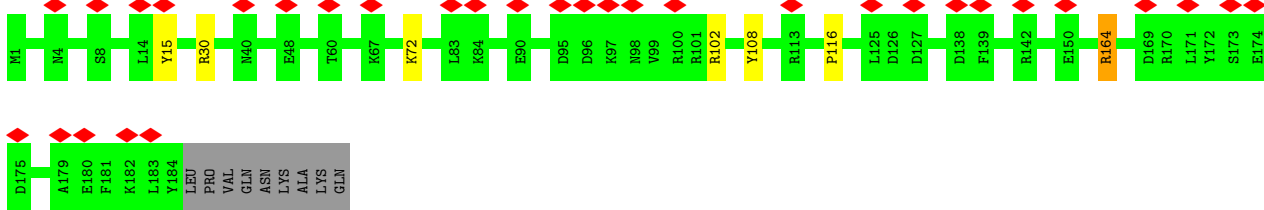
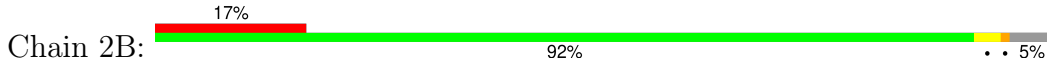


• Molecule 8: Cilia- and flagella-associated protein 20

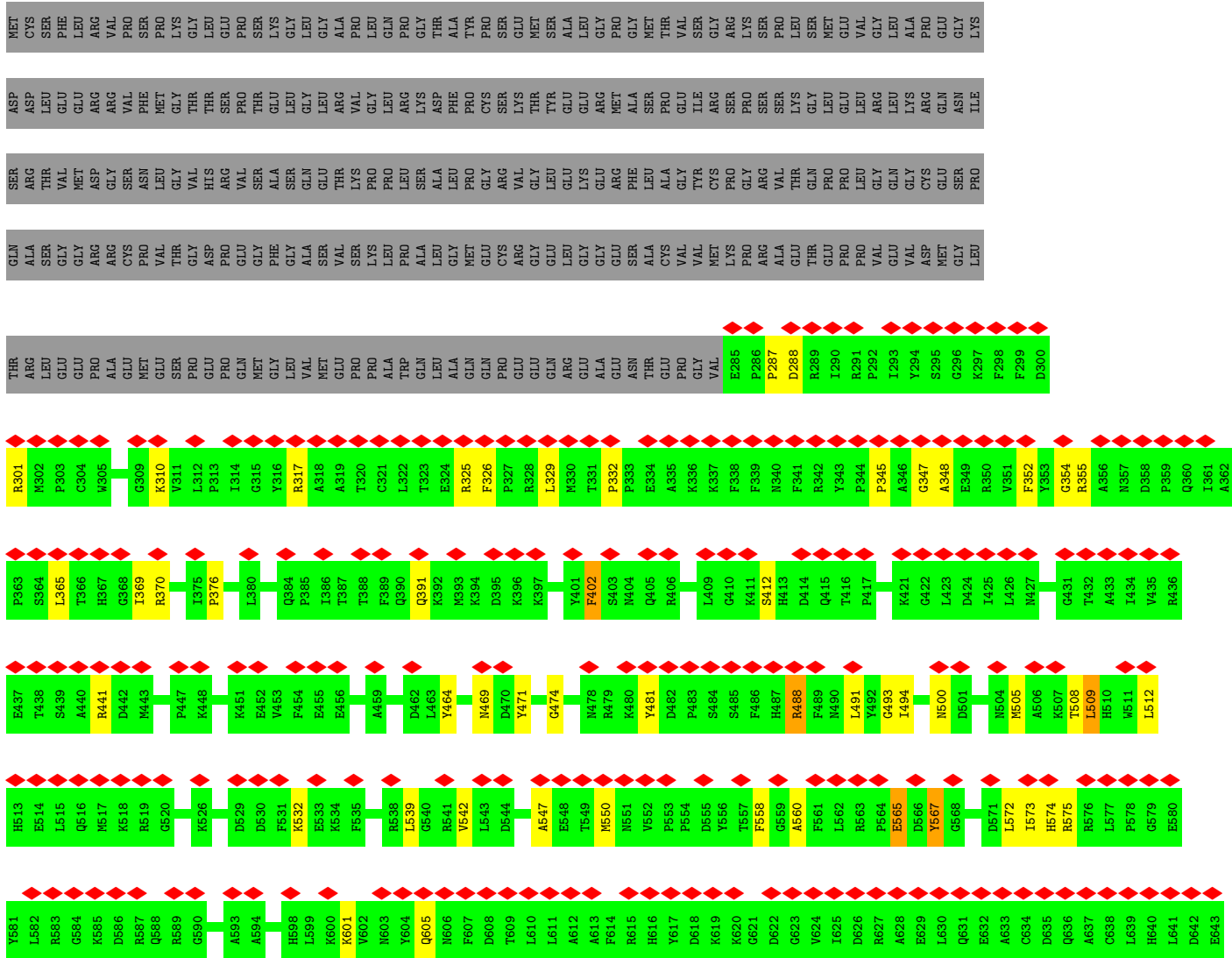


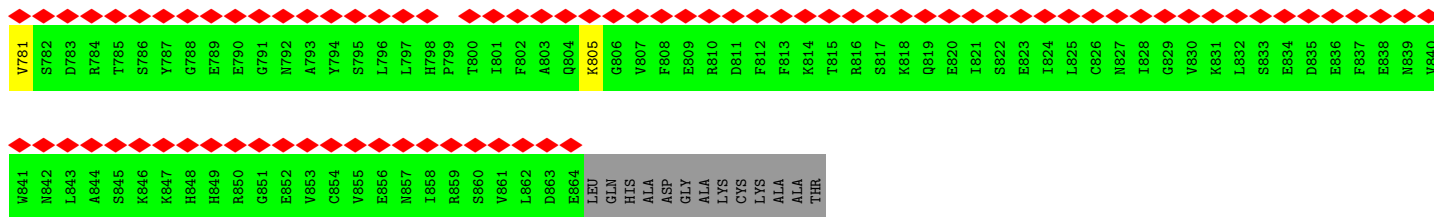


● Molecule 8: Cilia- and flagella-associated protein 20

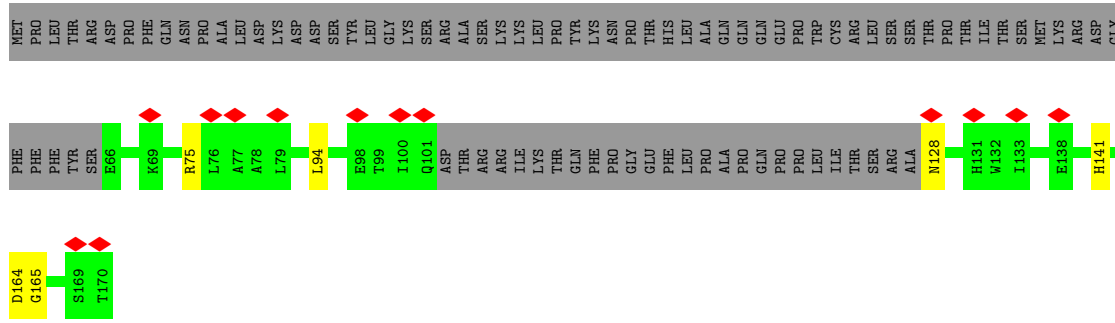


● Molecule 9: EF-hand domain family member B

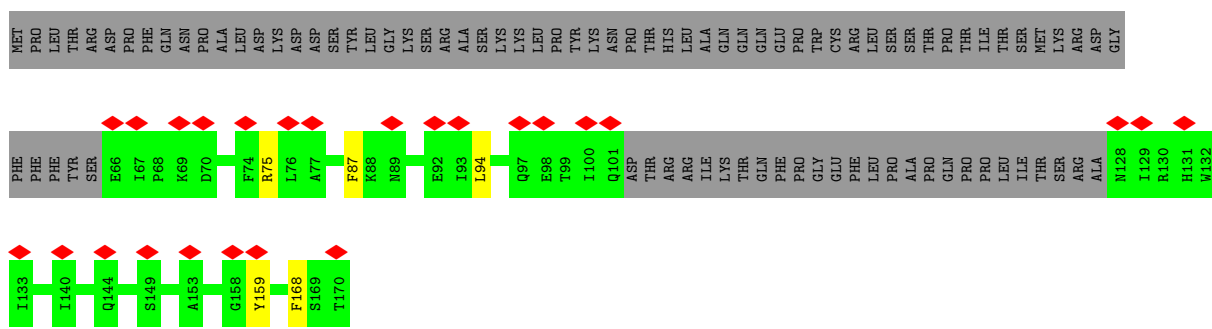
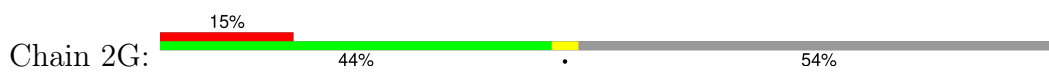




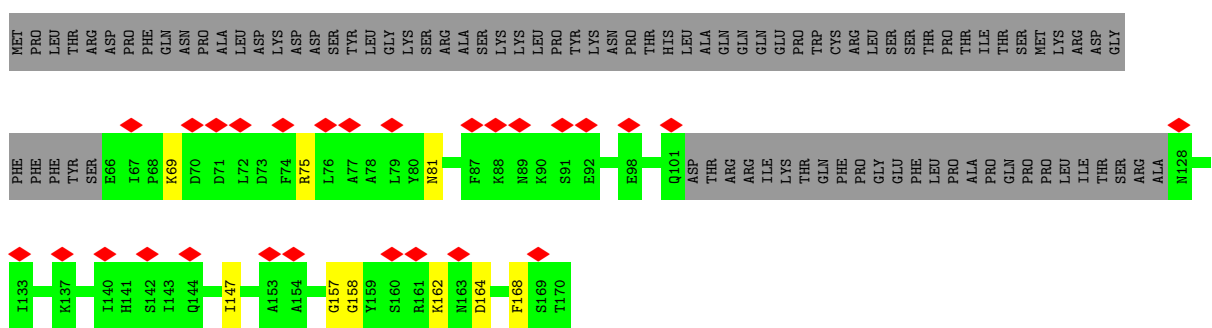
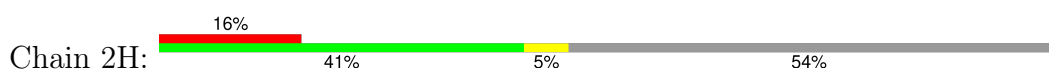
• Molecule 10: CFAP276



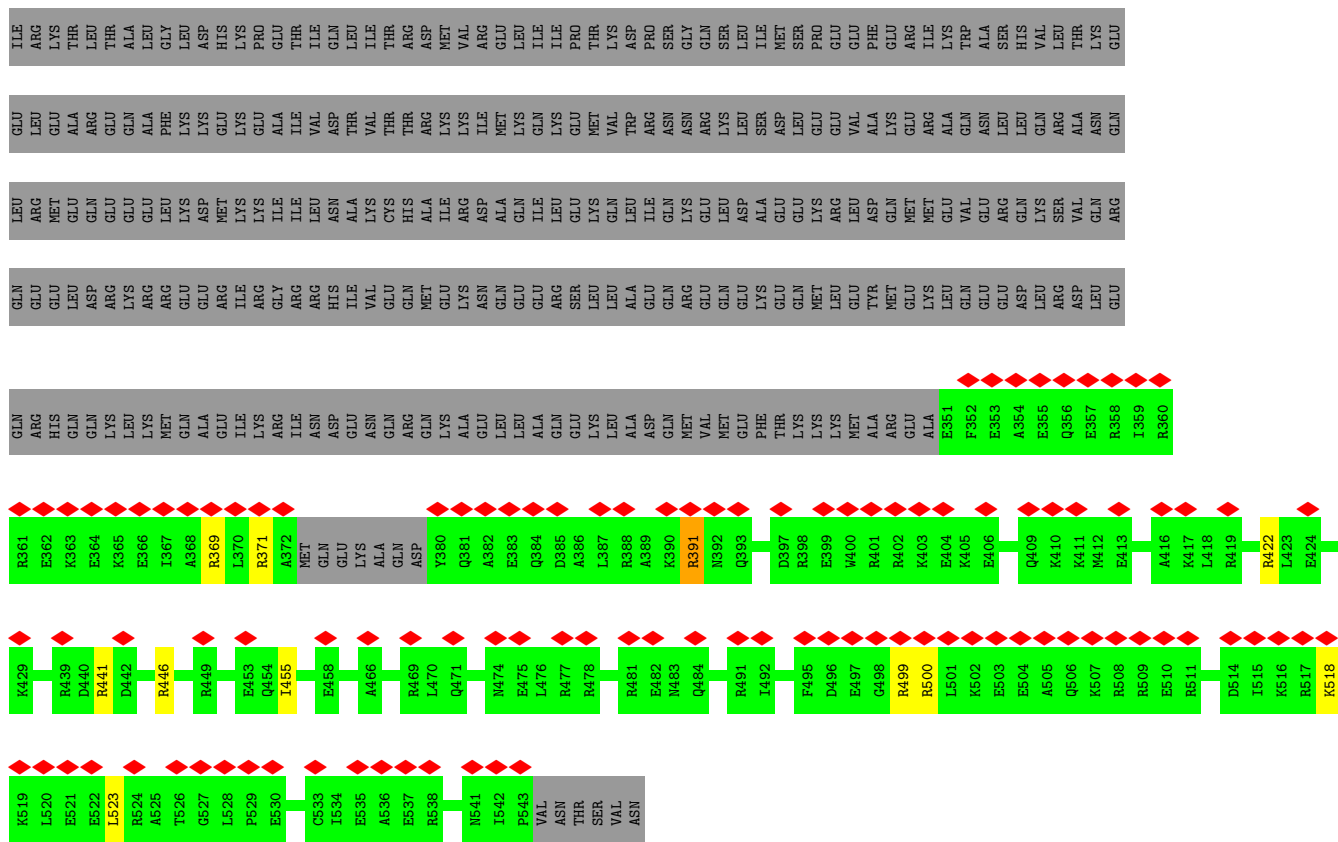
• Molecule 10: CFAP276



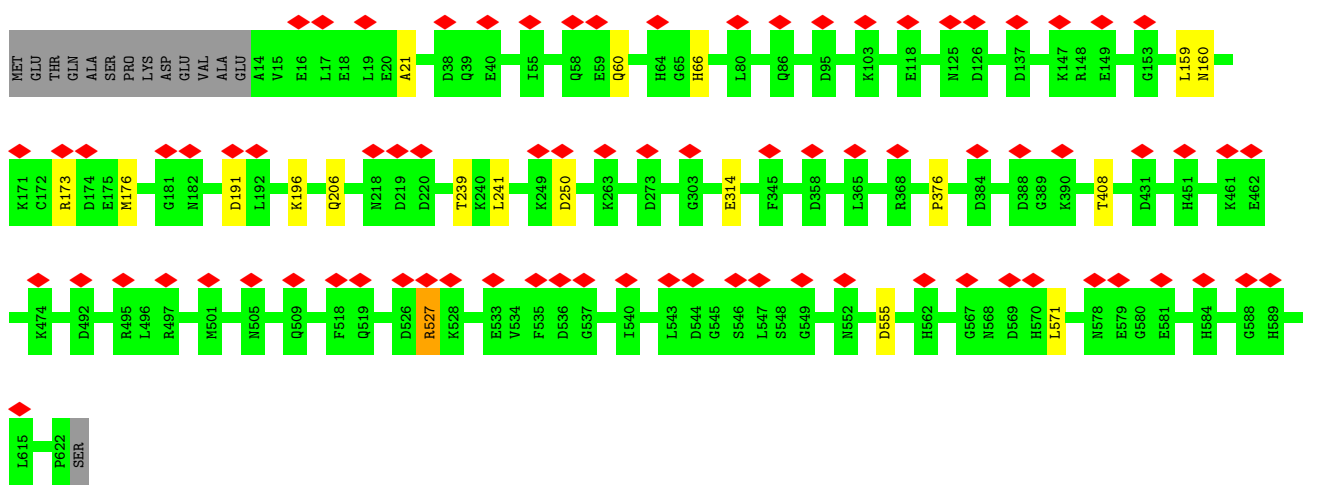
• Molecule 10: CFAP276



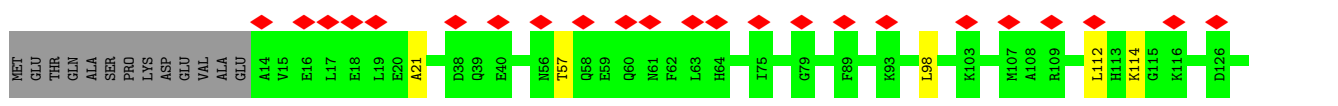
• Molecule 11: Cilia and flagella associated protein 45

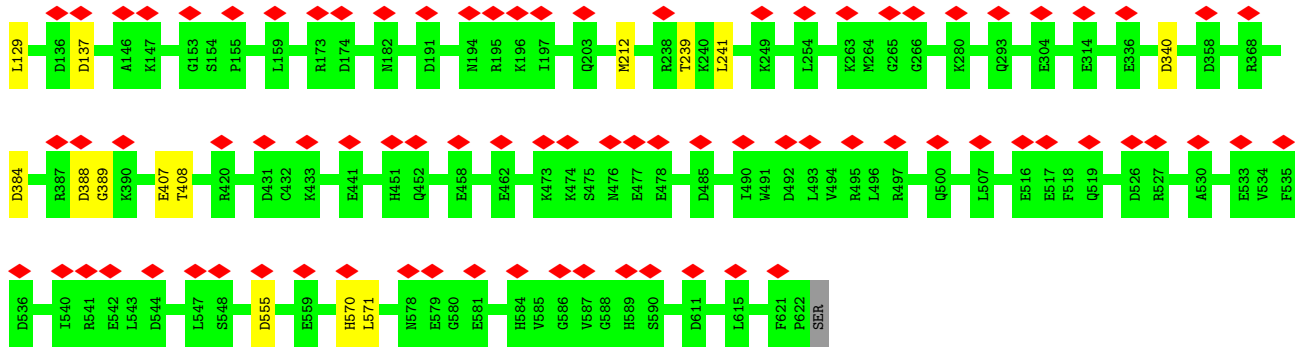


• Molecule 12: Cilia and flagella associated protein 52

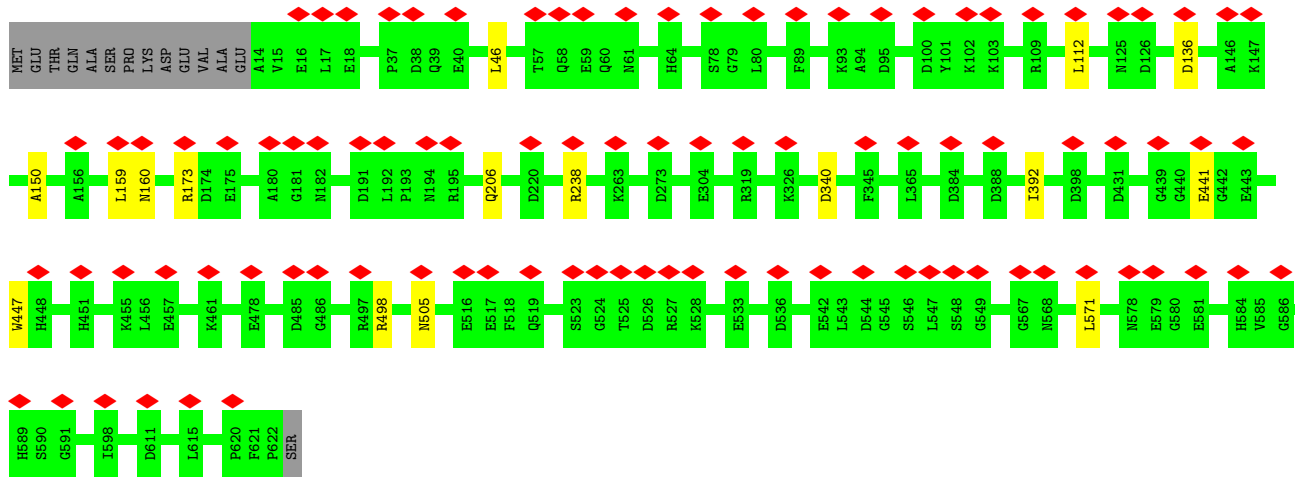


• Molecule 12: Cilia and flagella associated protein 52

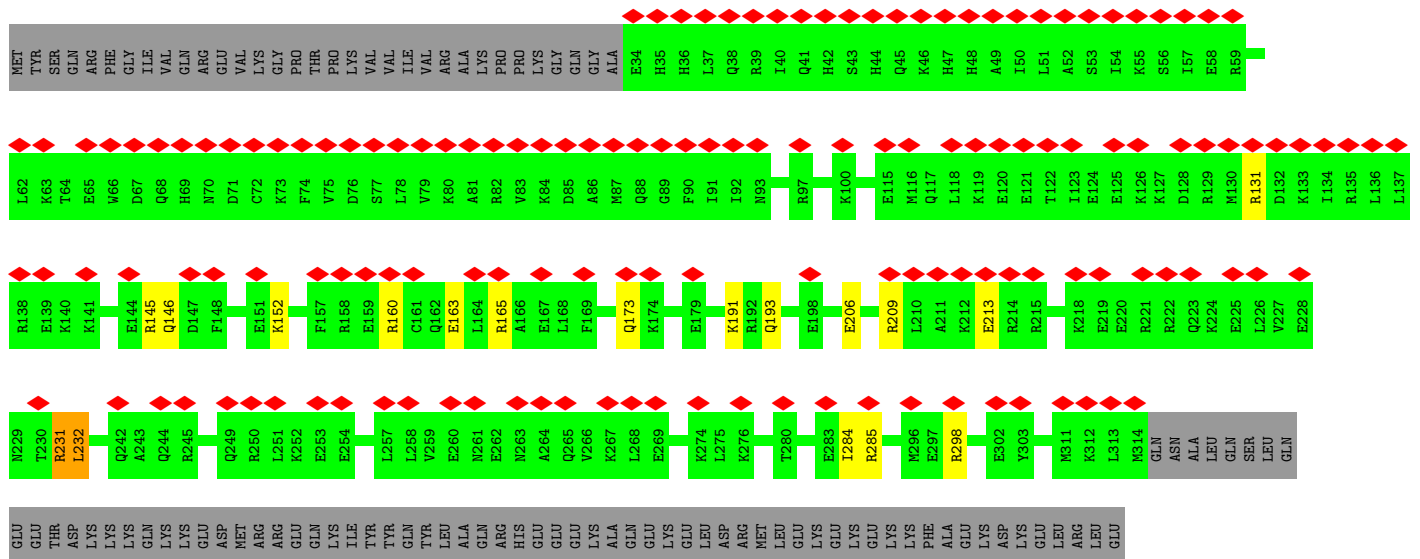




• Molecule 12: Cilia and flagella associated protein 52

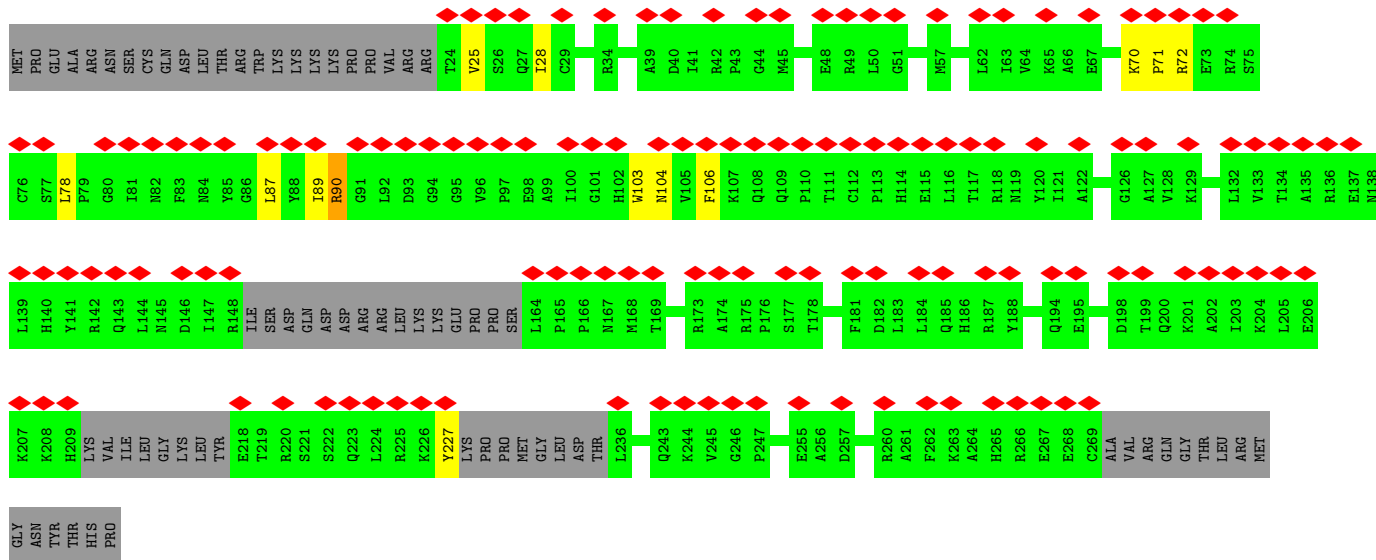
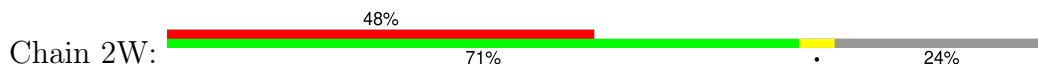


• Molecule 13: Methyl-CpG binding domain protein 1

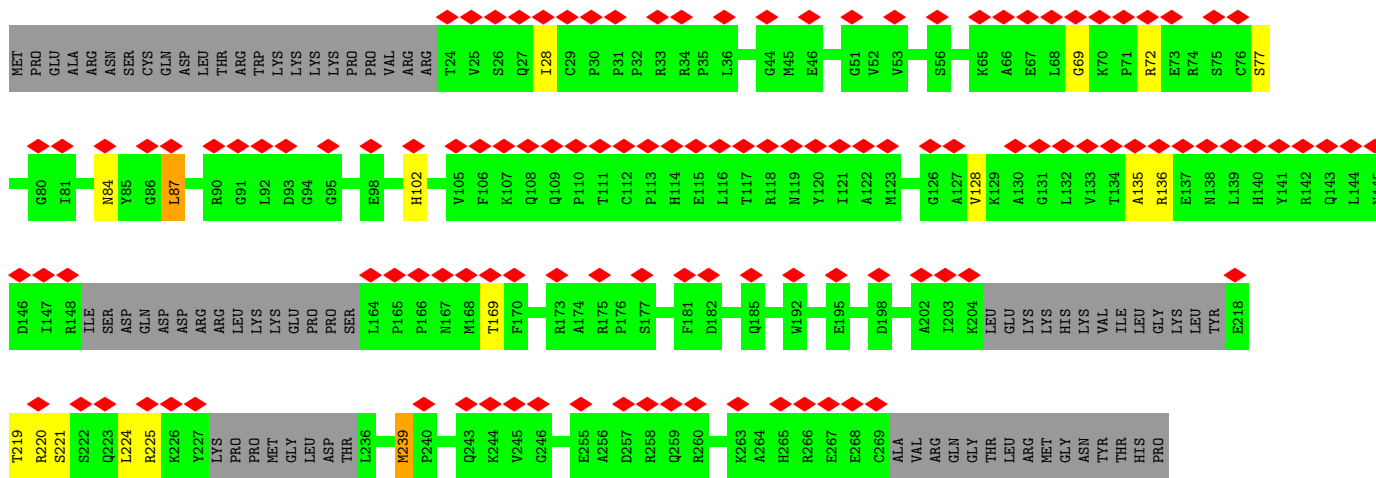
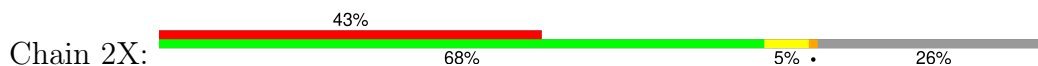




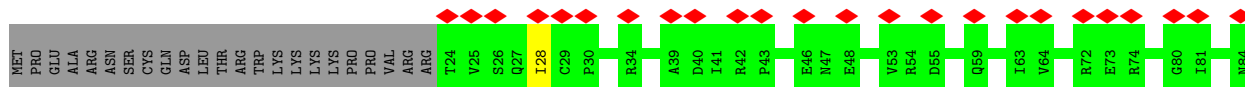
• Molecule 14: Cilia and flagella associated protein 77

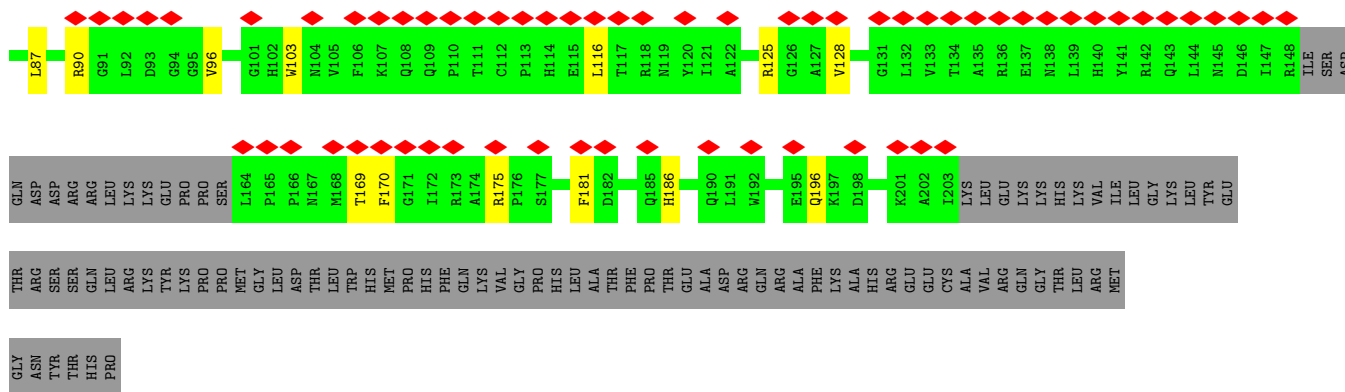


• Molecule 14: Cilia and flagella associated protein 77

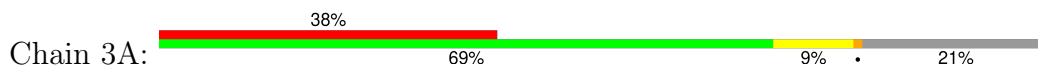


• Molecule 14: Cilia and flagella associated protein 77

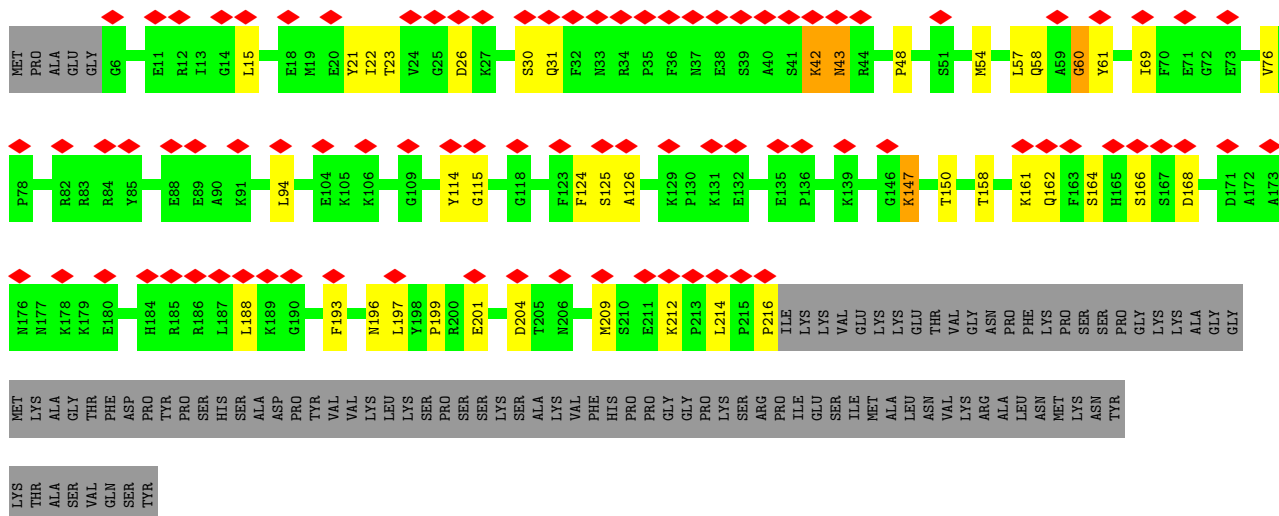




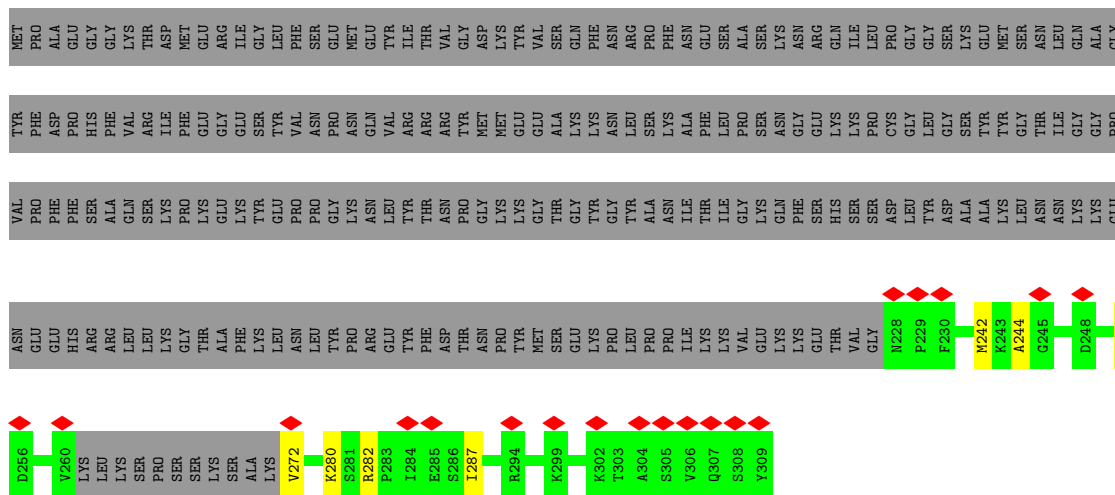
• Molecule 15: CFAP95



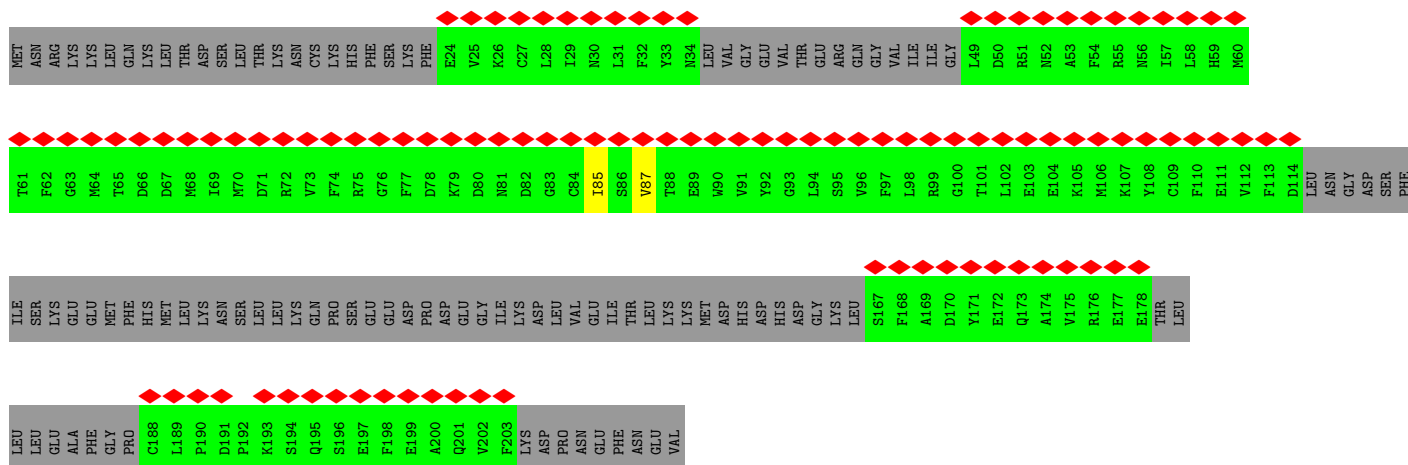
• Molecule 16: Cilia-and flagella-associated protein 96



• Molecule 16: Cilia-and flagella-associated protein 96

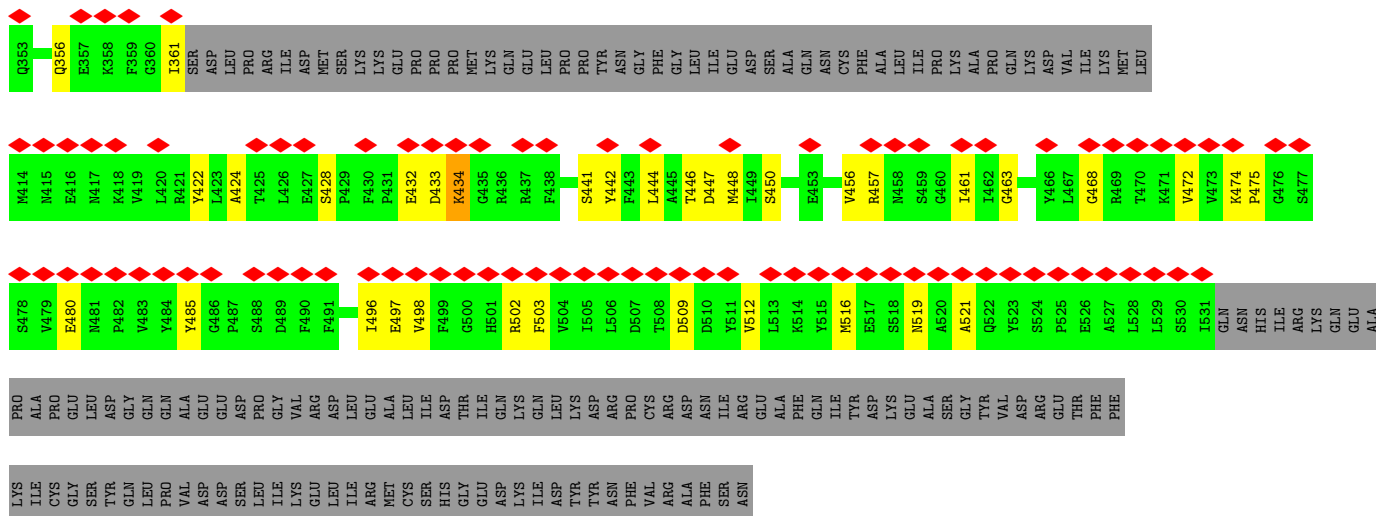


• Molecule 17: EF-hand calcium-binding domain-containing protein 1

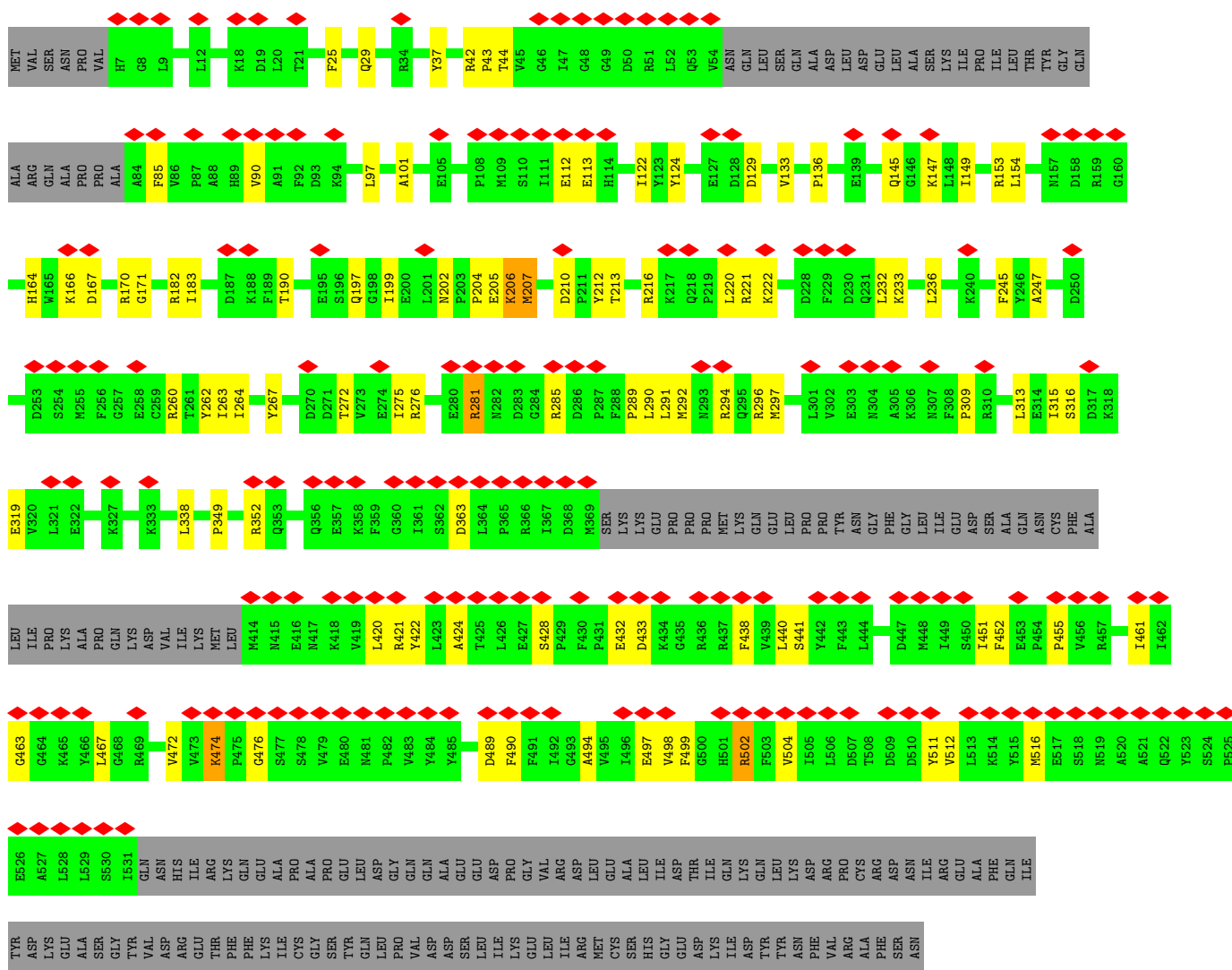


• Molecule 18: EF-hand calcium binding domain 6

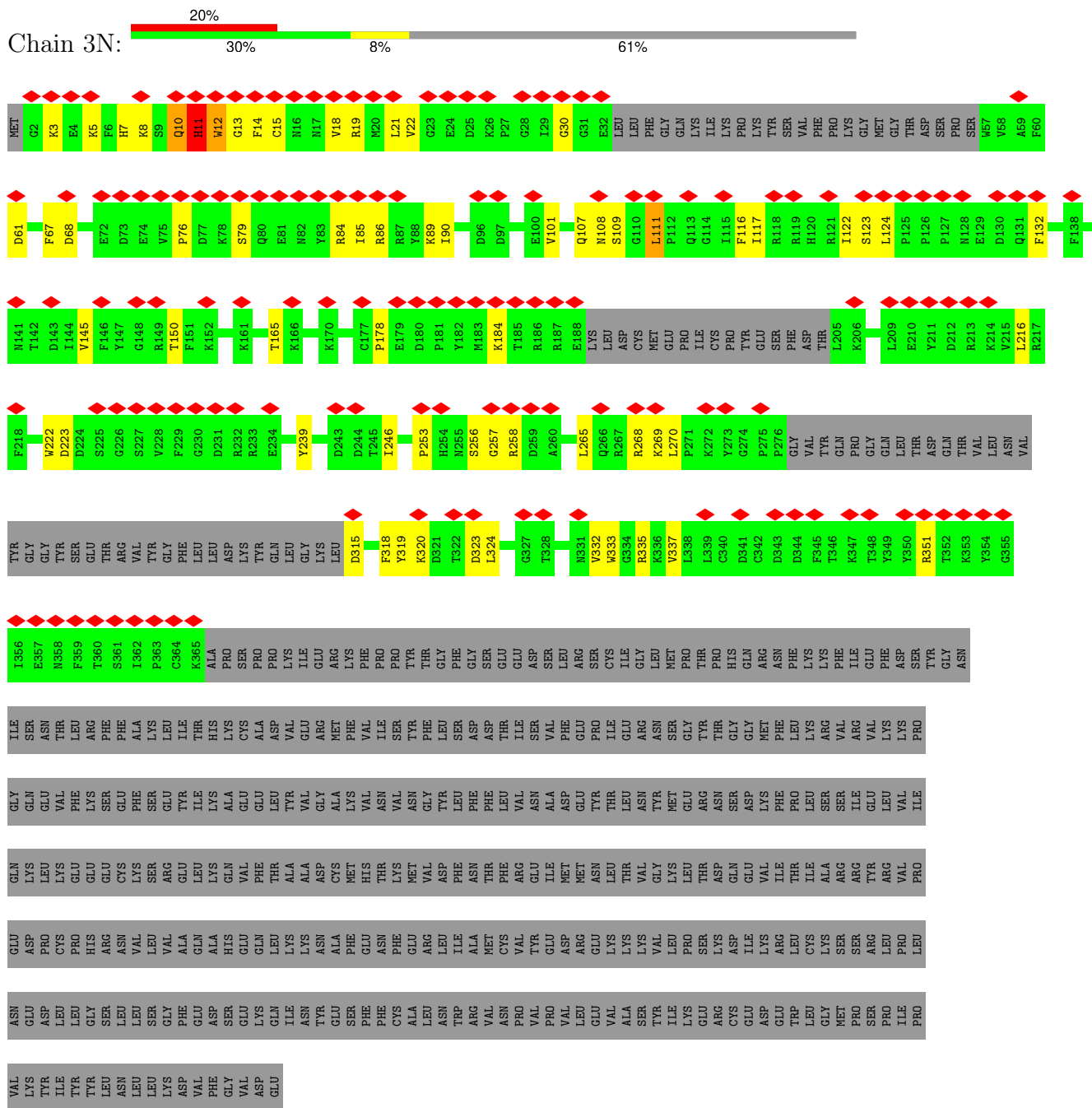




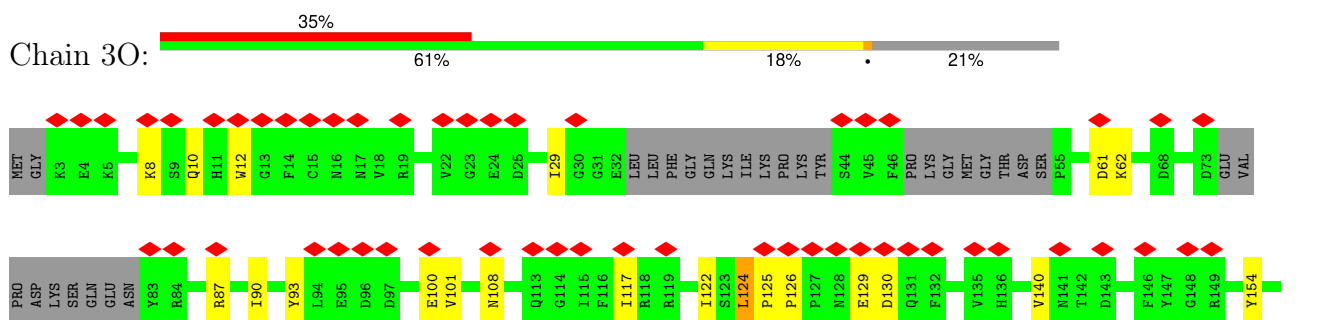
• Molecule 19: EF-hand domain containing 1

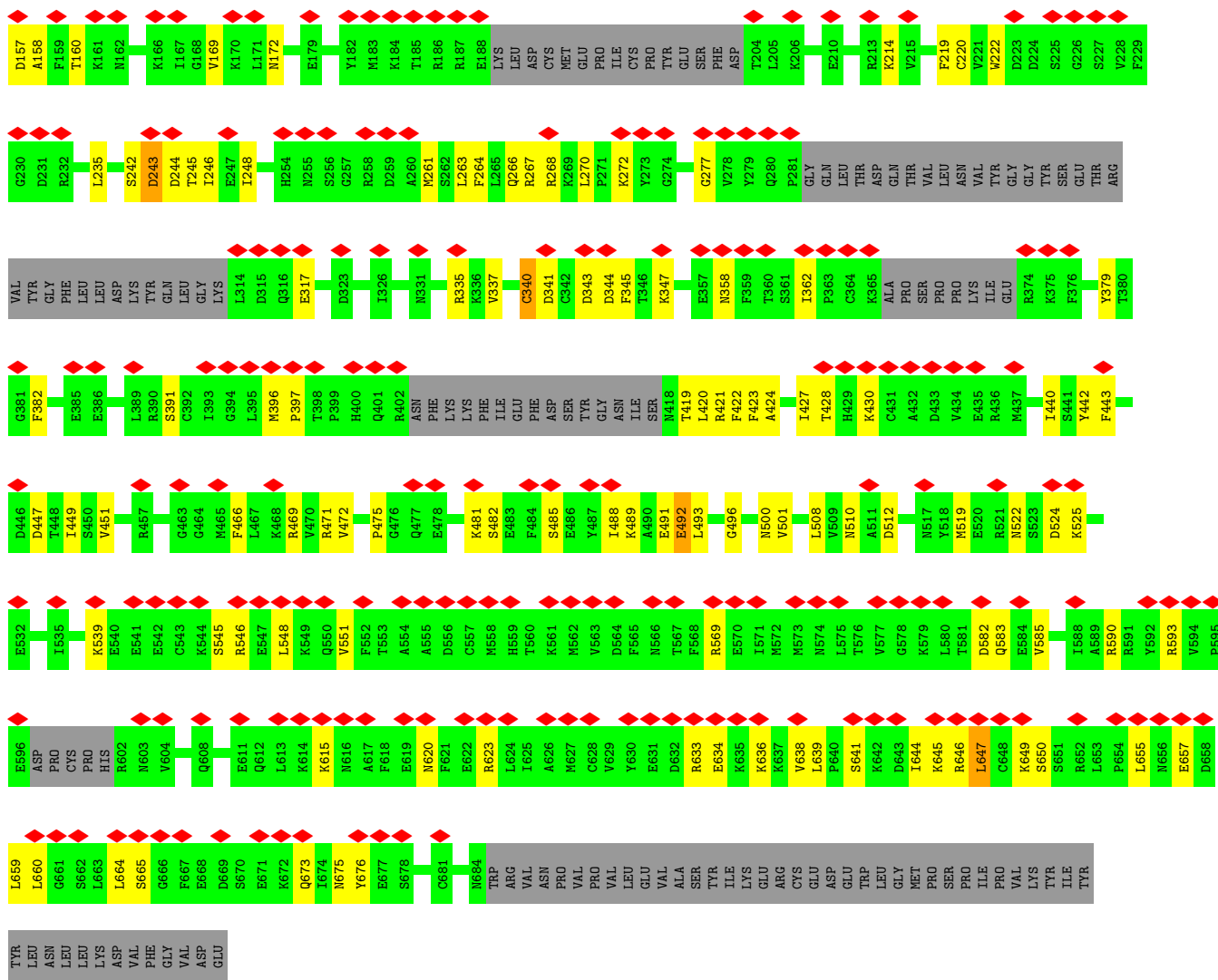


• Molecule 20: EFHC2



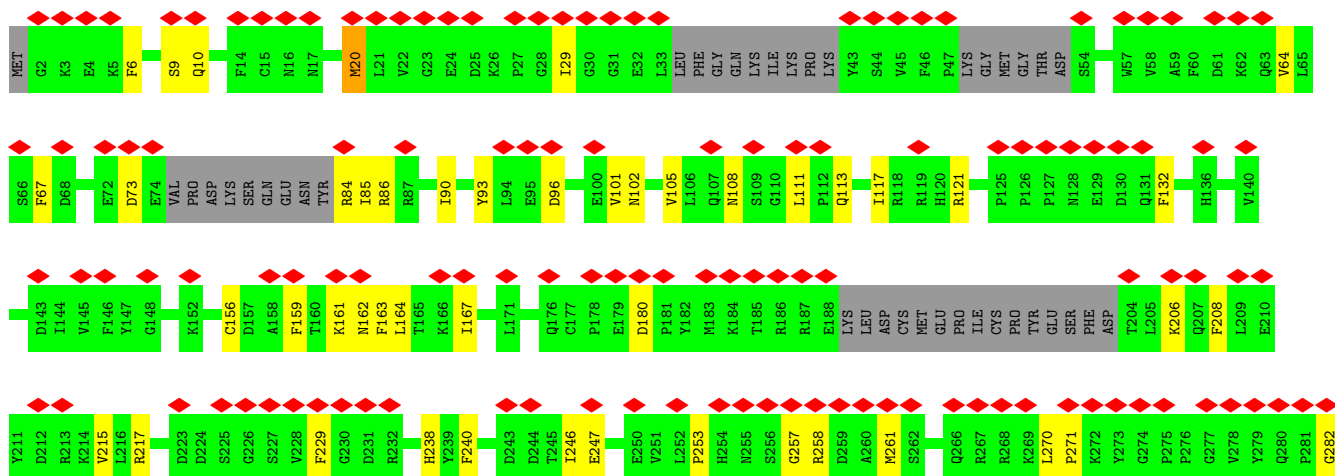
• Molecule 20: EFHC2

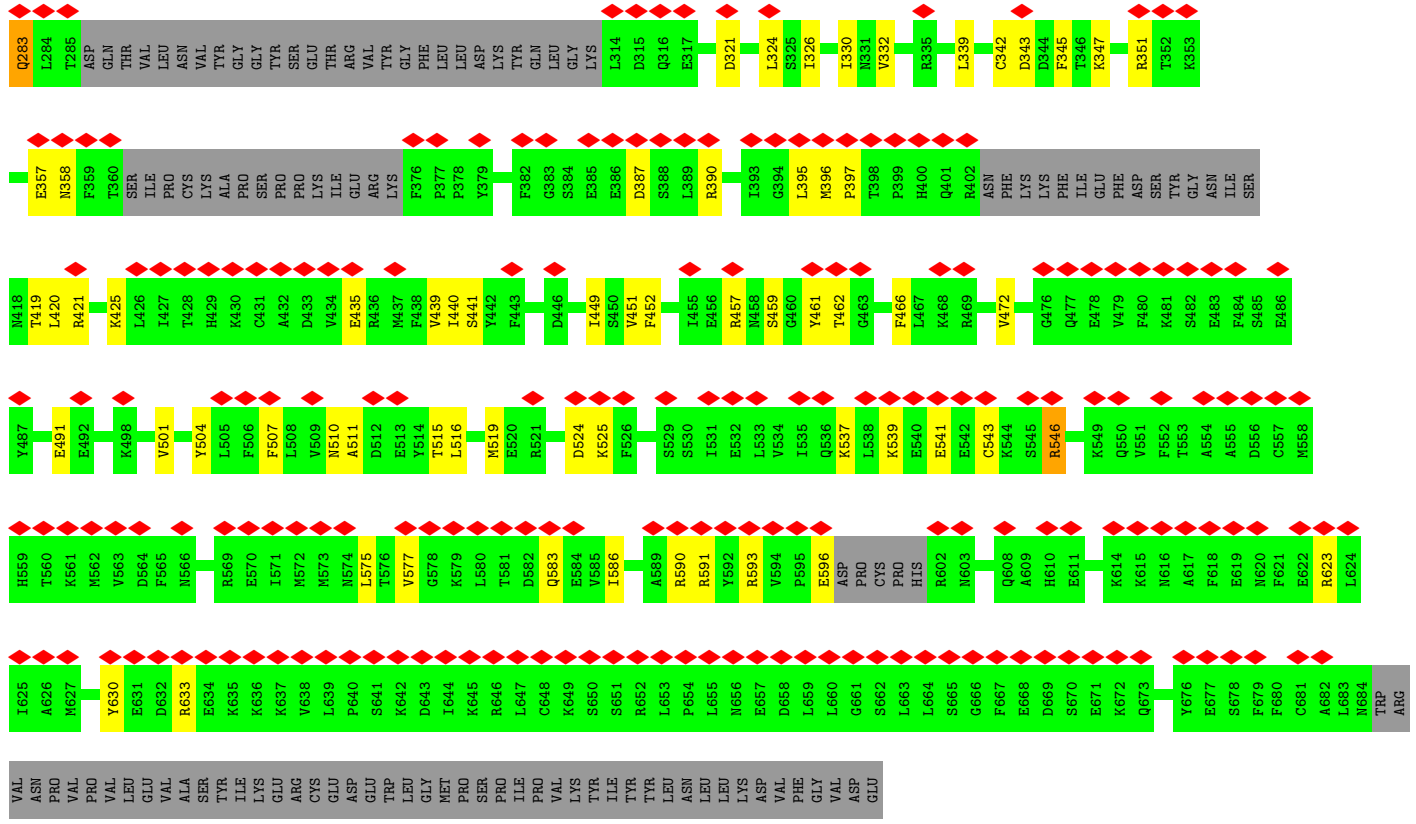




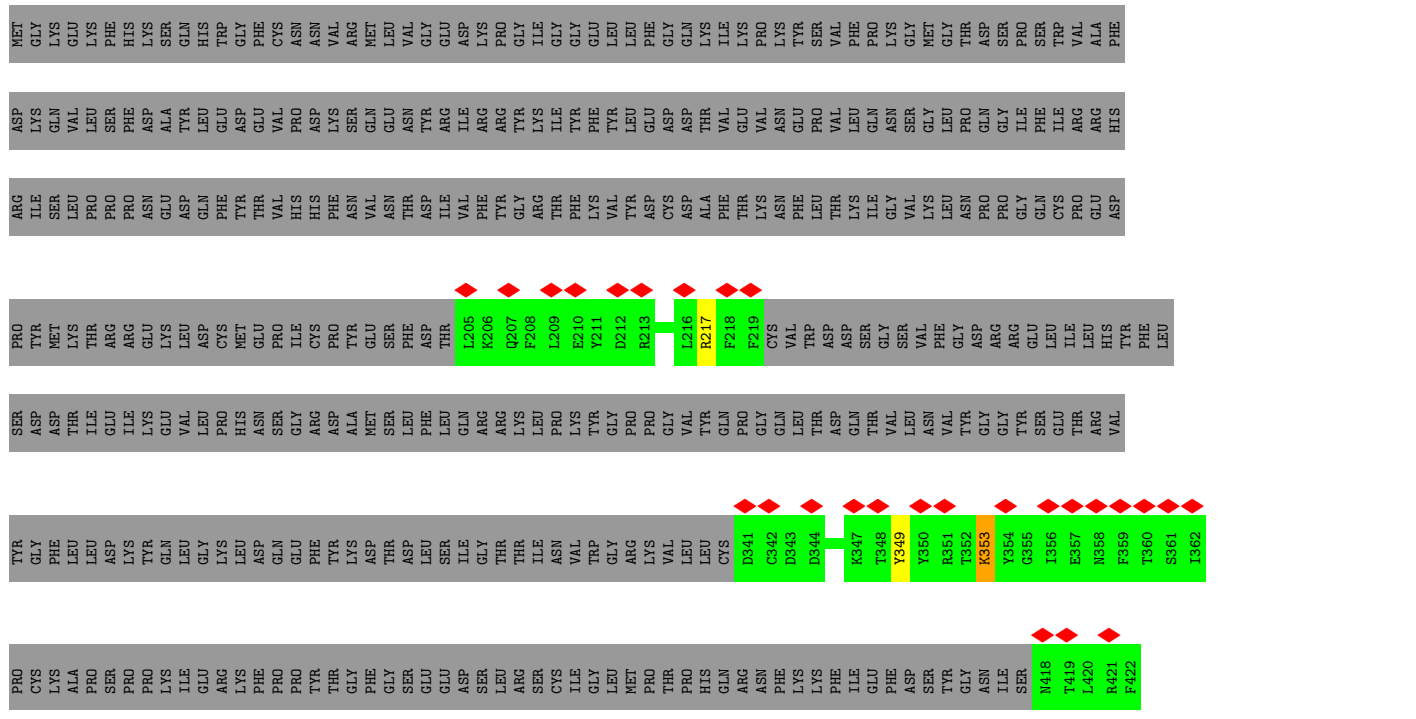
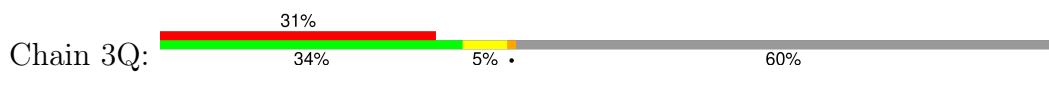
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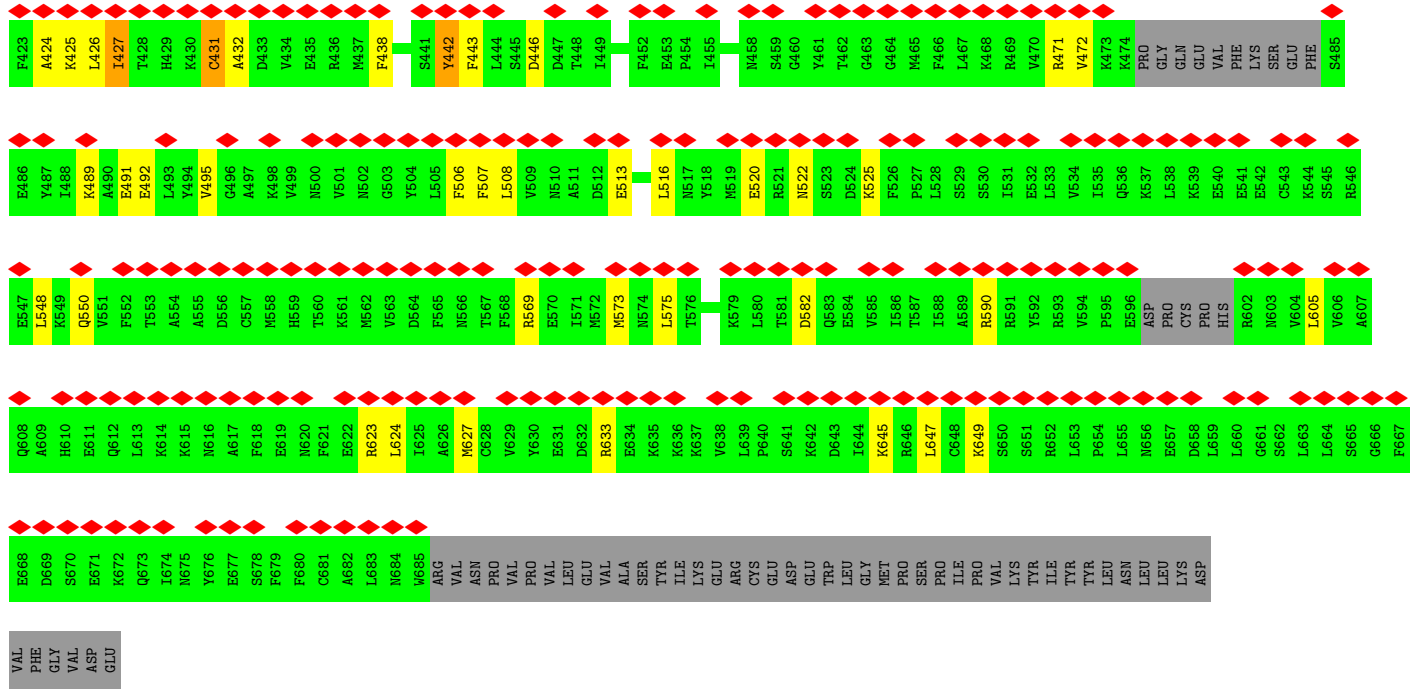
Chain 3P:



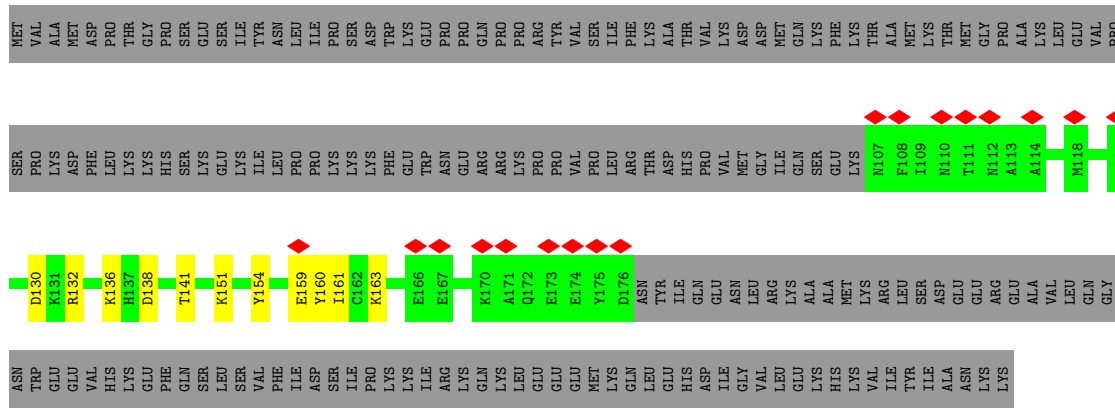


• Molecule 20: EFHC2

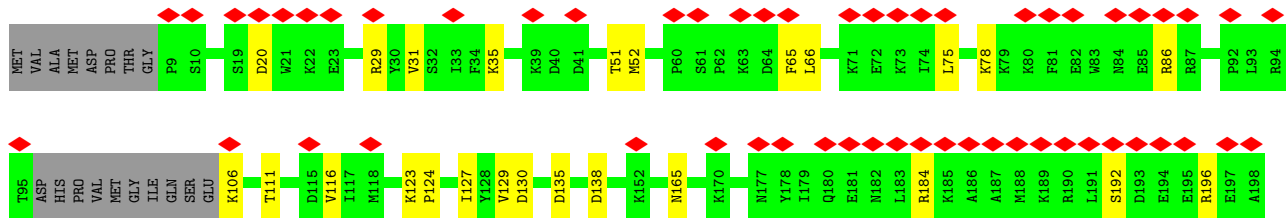
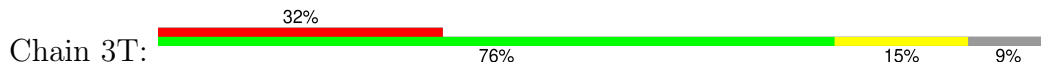


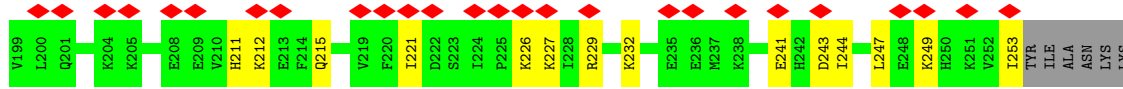


• Molecule 21: Enkurin, TRPC channel interacting protein

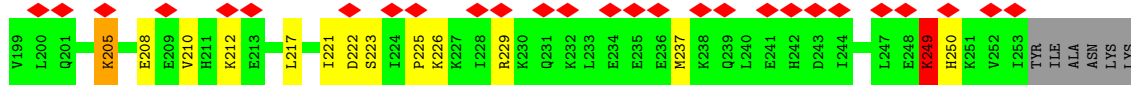
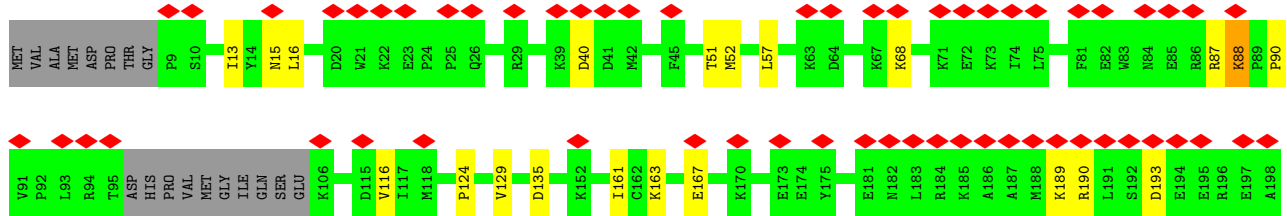
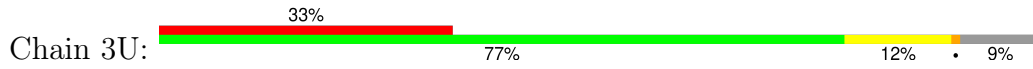


• Molecule 21: Enkurin, TRPC channel interacting protein

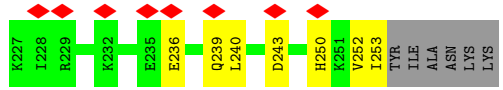
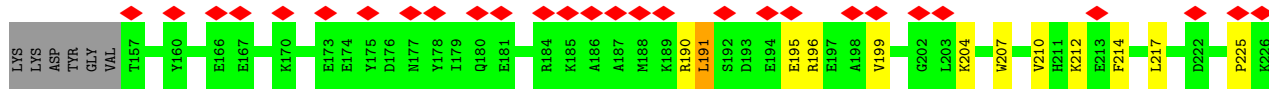
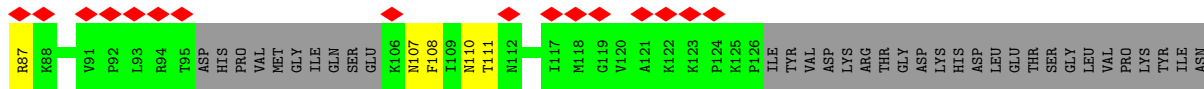
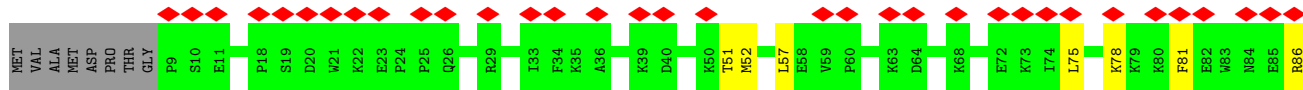




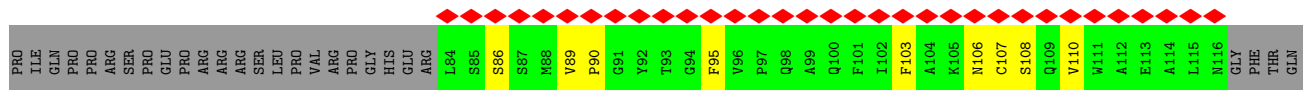
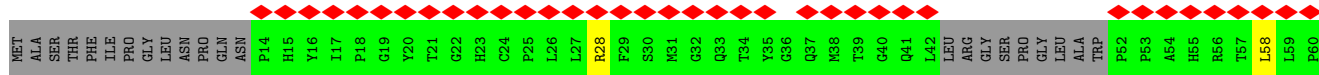
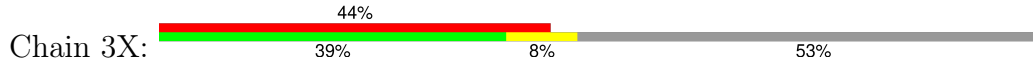
• Molecule 21: Enkurin, TRPC channel interacting protein

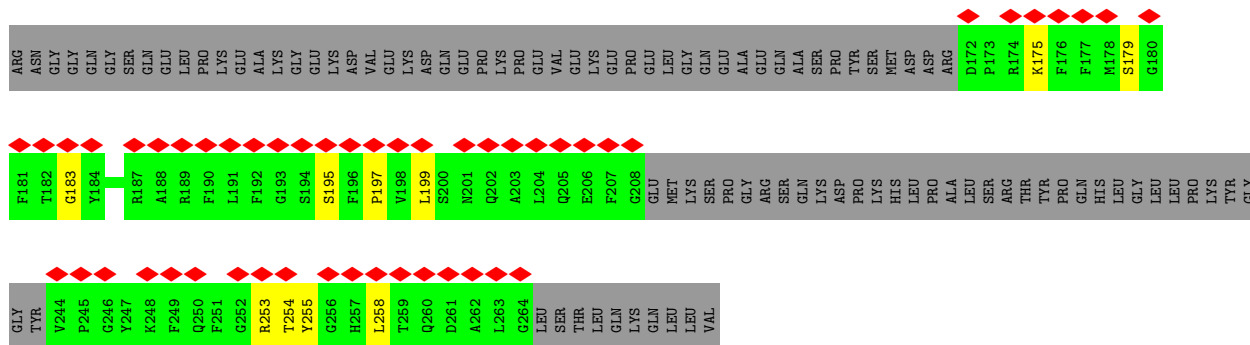


• Molecule 21: Enkurin, TRPC channel interacting protein

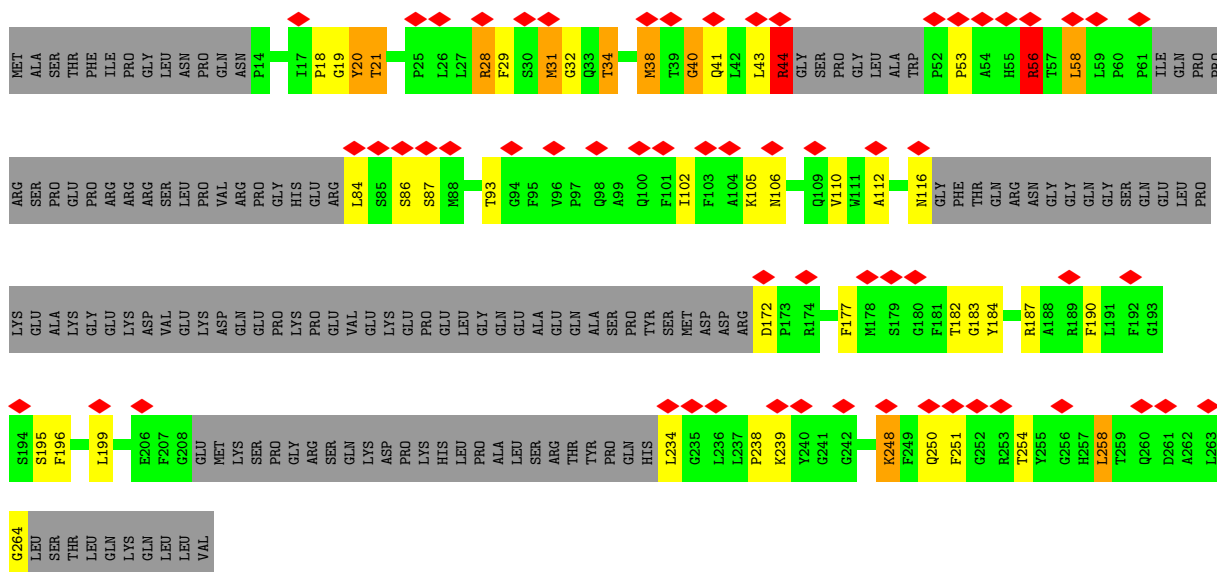
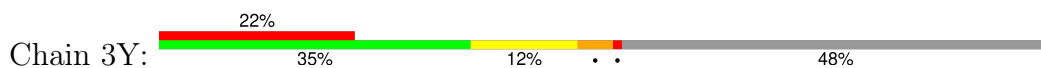


• Molecule 22: Protein FAM166B

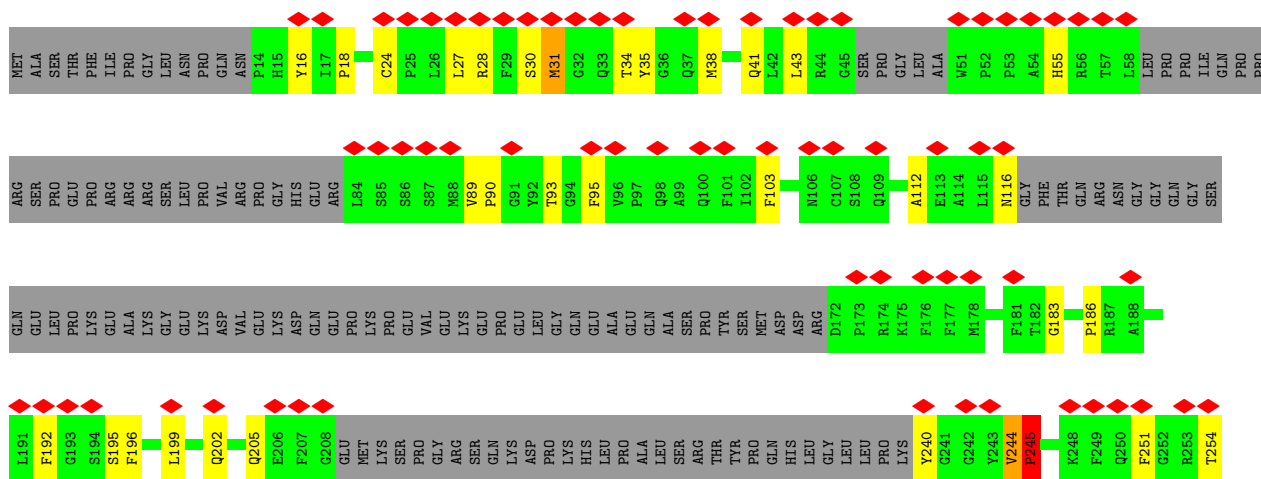
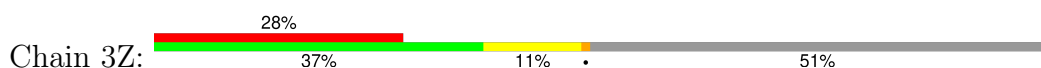


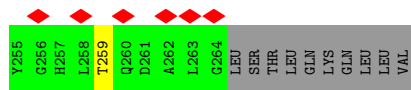


• Molecule 22: Protein FAM166B

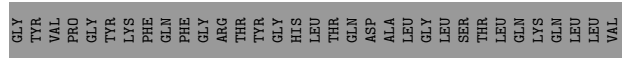
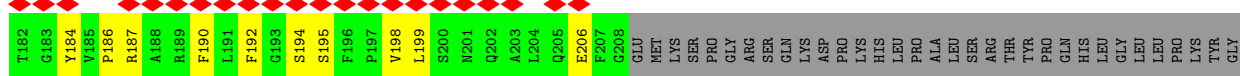
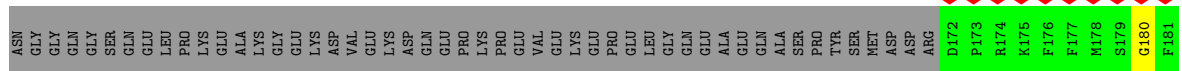
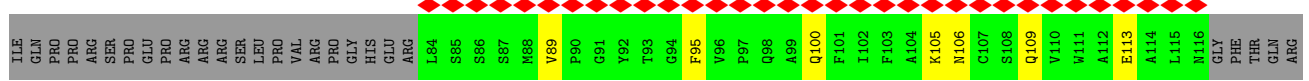


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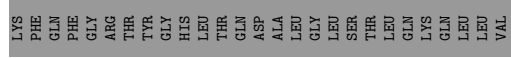
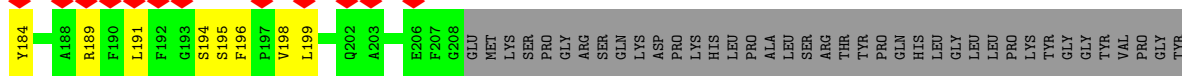
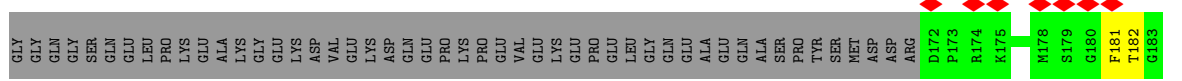
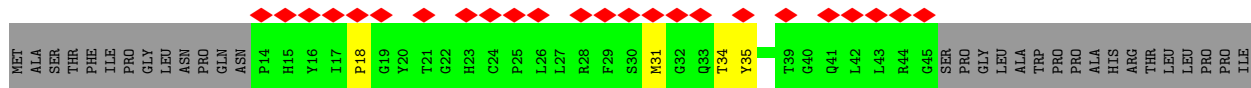




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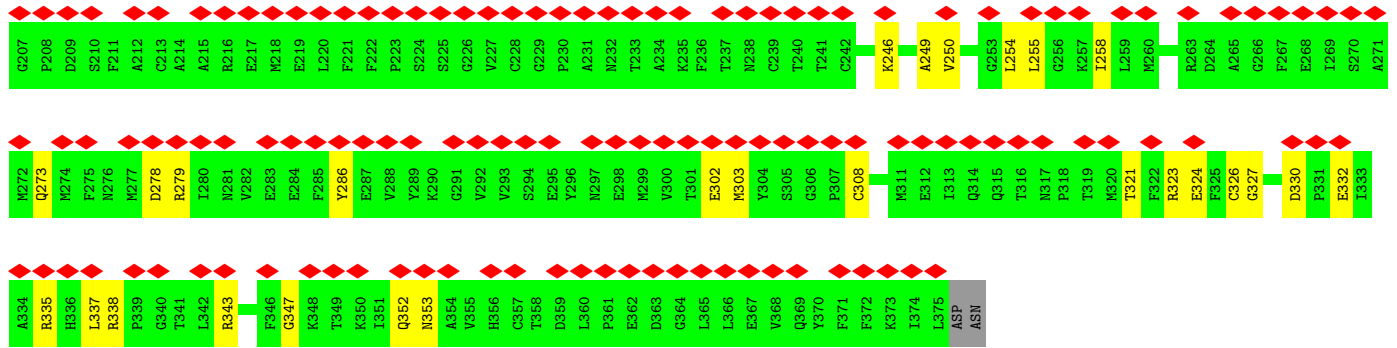


Molecule 22: Protein FAM166B

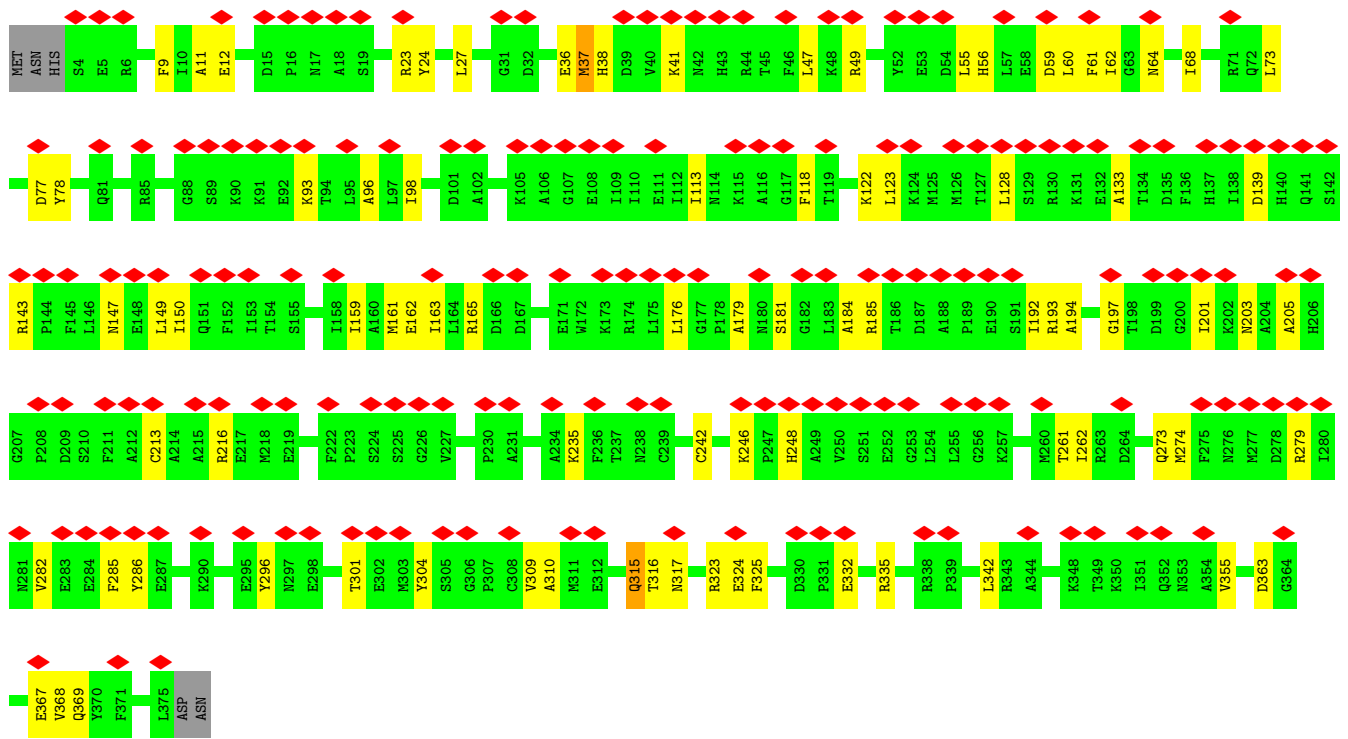
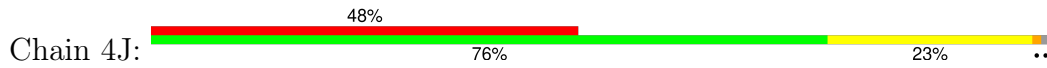


Molecule 22: Protein FAM166B

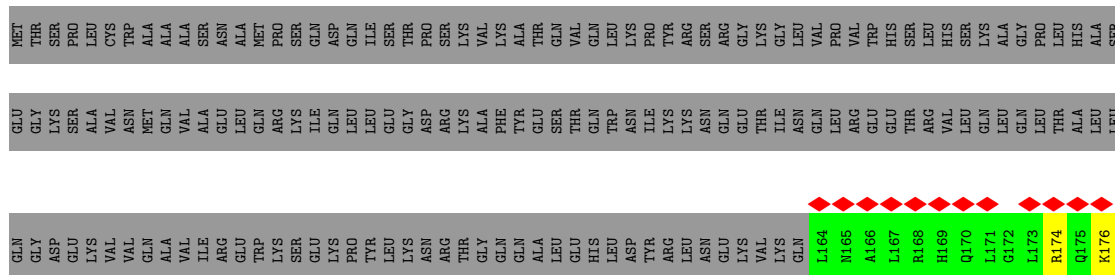


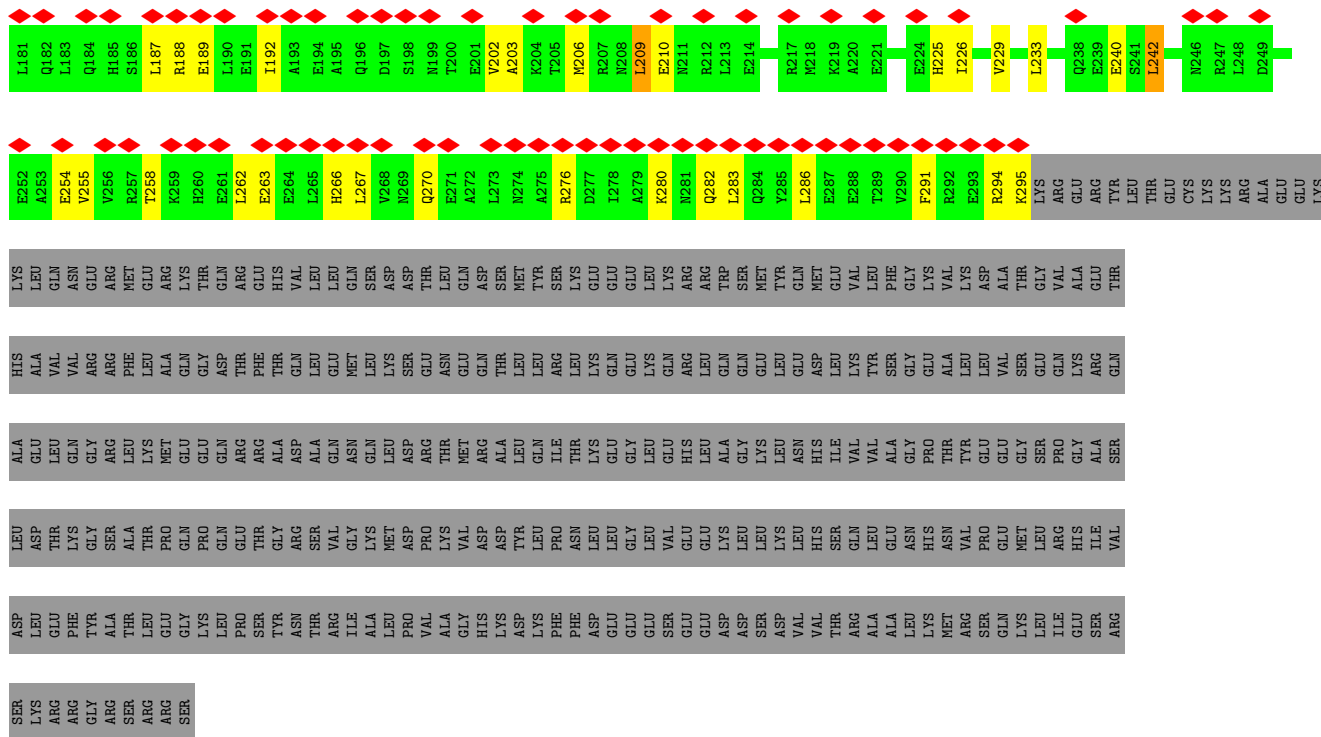


• Molecule 25: Nucleoside diphosphate kinase 7

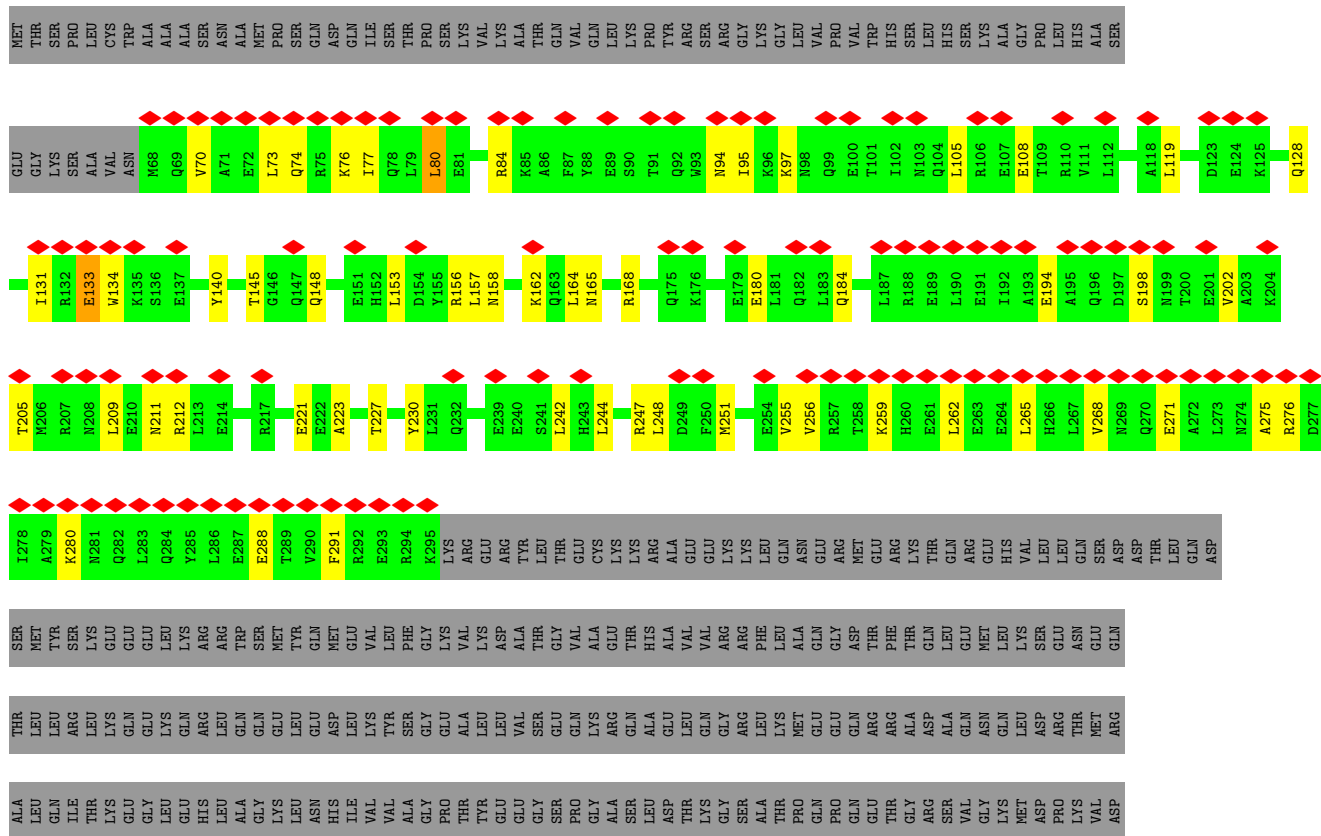


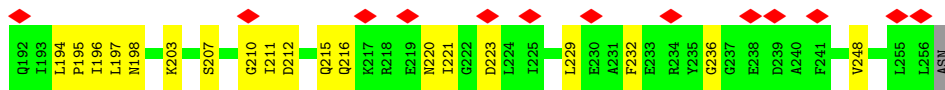
• Molecule 26: Outer dynein arm-docking complex subunit 3



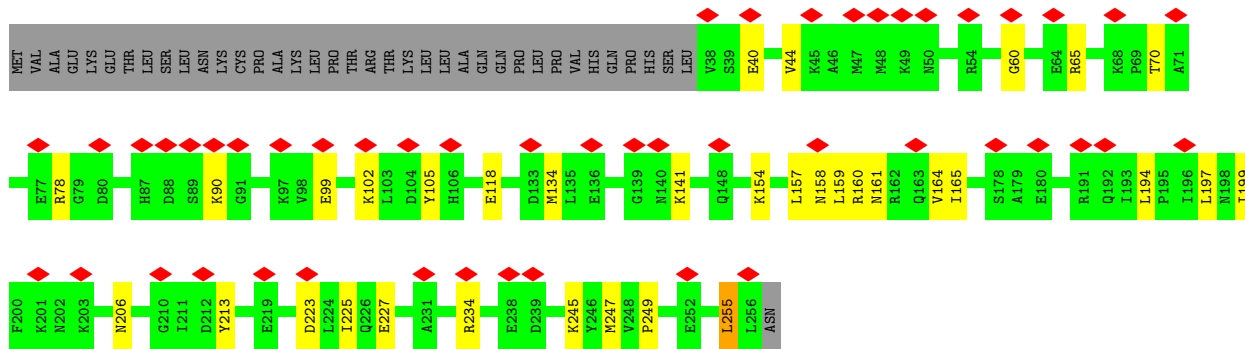
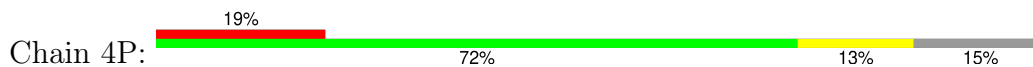


● Molecule 26: Outer dynein arm-docking complex subunit 3

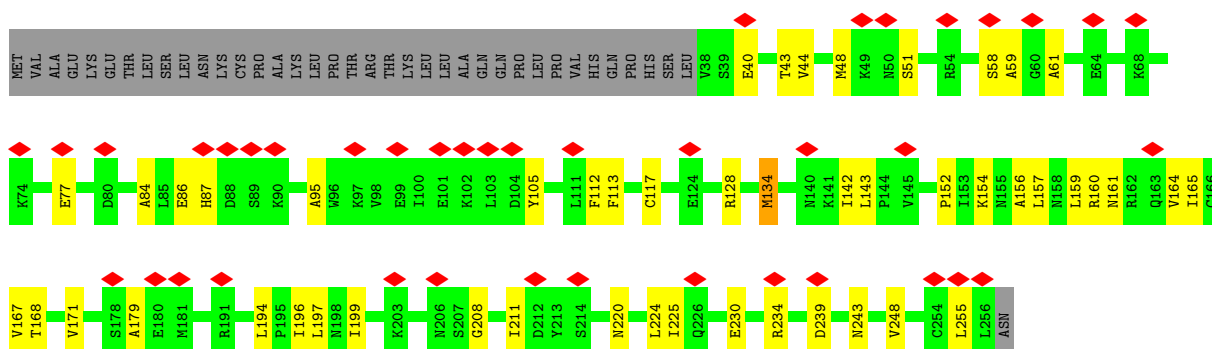




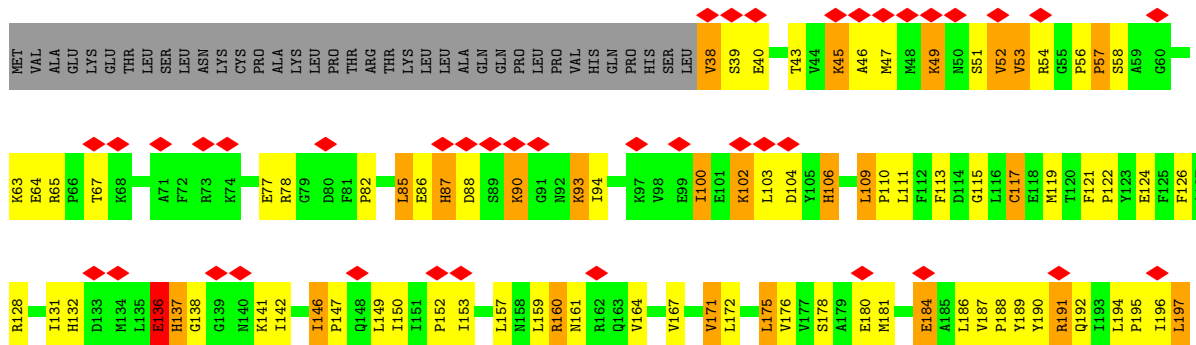
• Molecule 27: PACRG protein

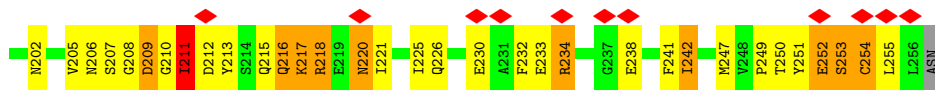


• Molecule 27: PACRG protein

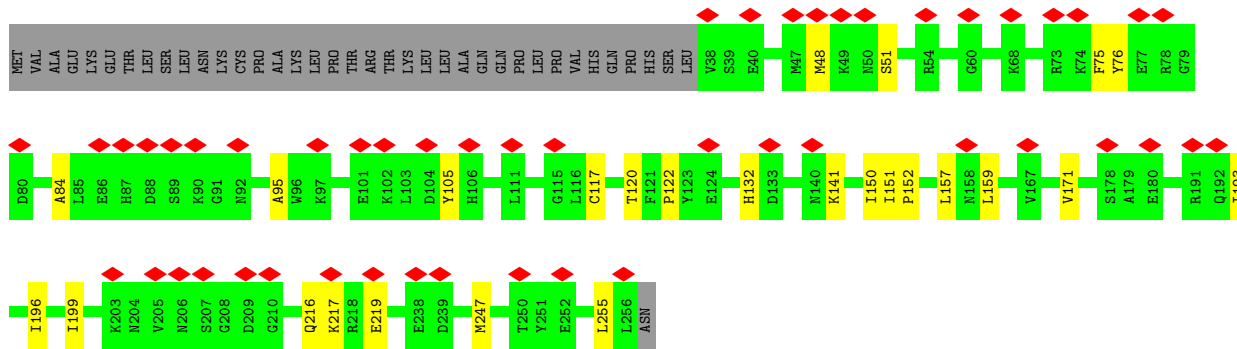
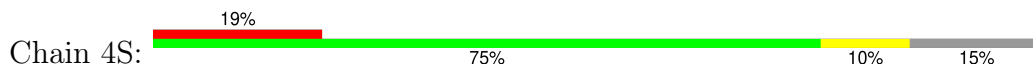


• Molecule 27: PACRG protein

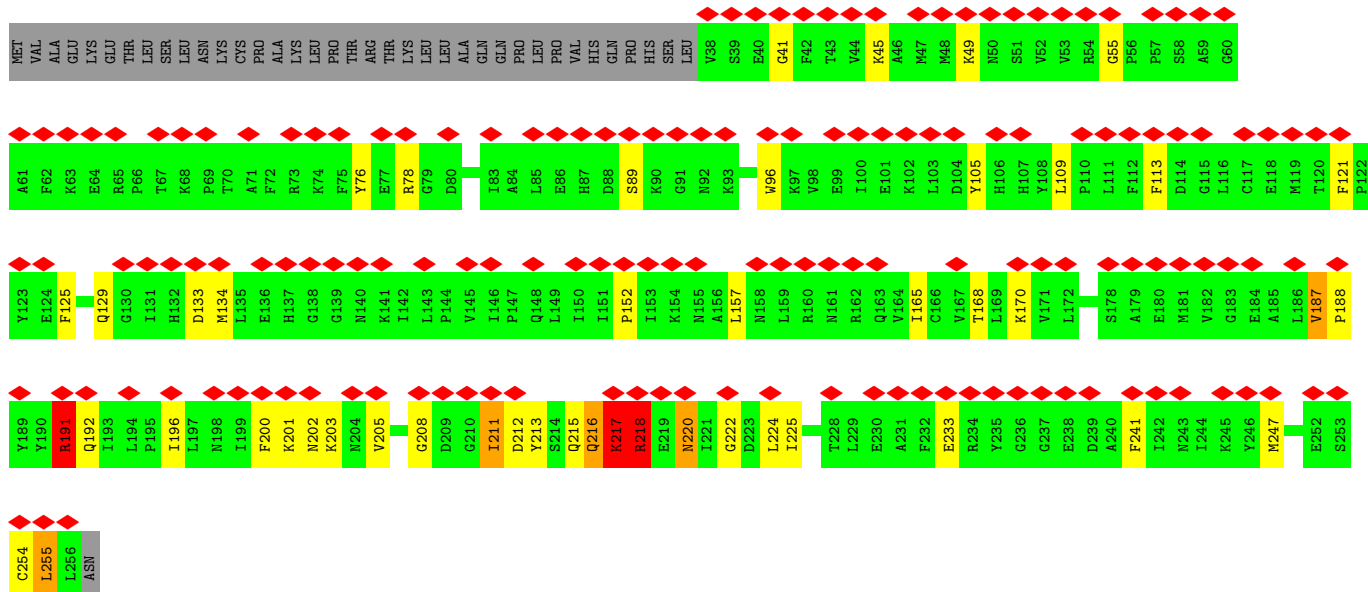




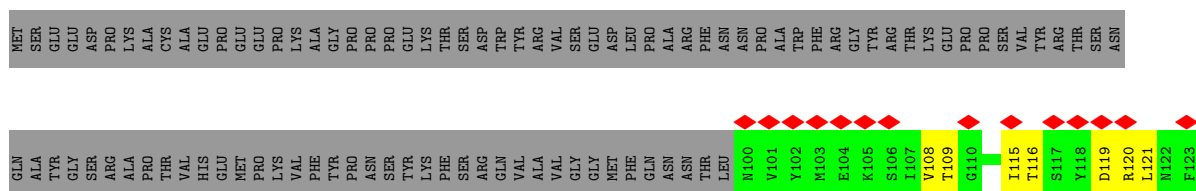
• Molecule 27: PACRG protein



• Molecule 27: PACRG protein

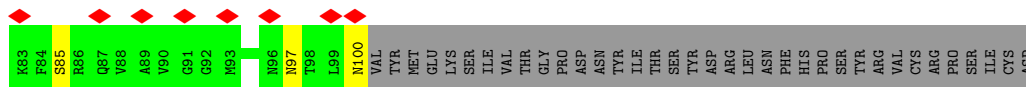
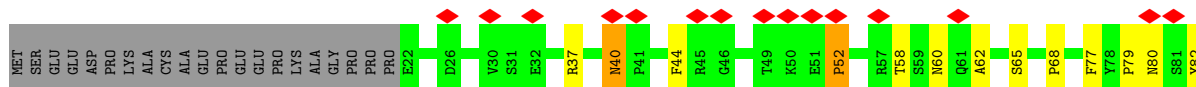


• Molecule 28: Pierce1

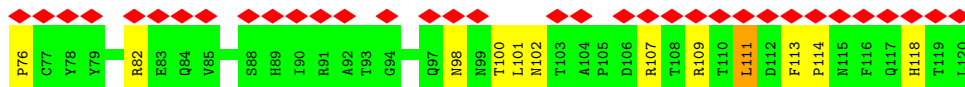
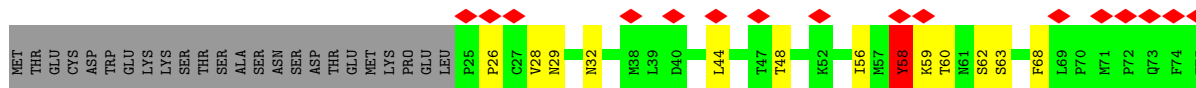
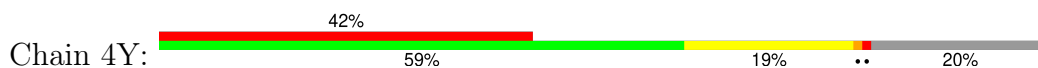




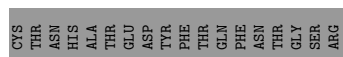
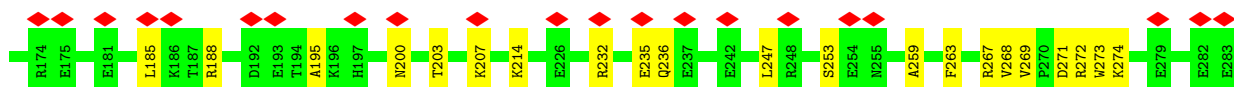
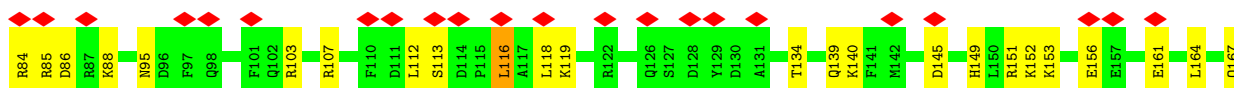
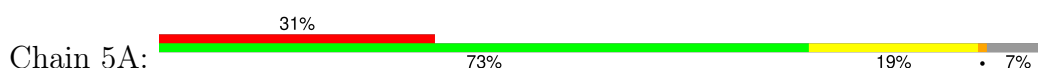
• Molecule 28: Pierce1



• Molecule 29: Pierce2

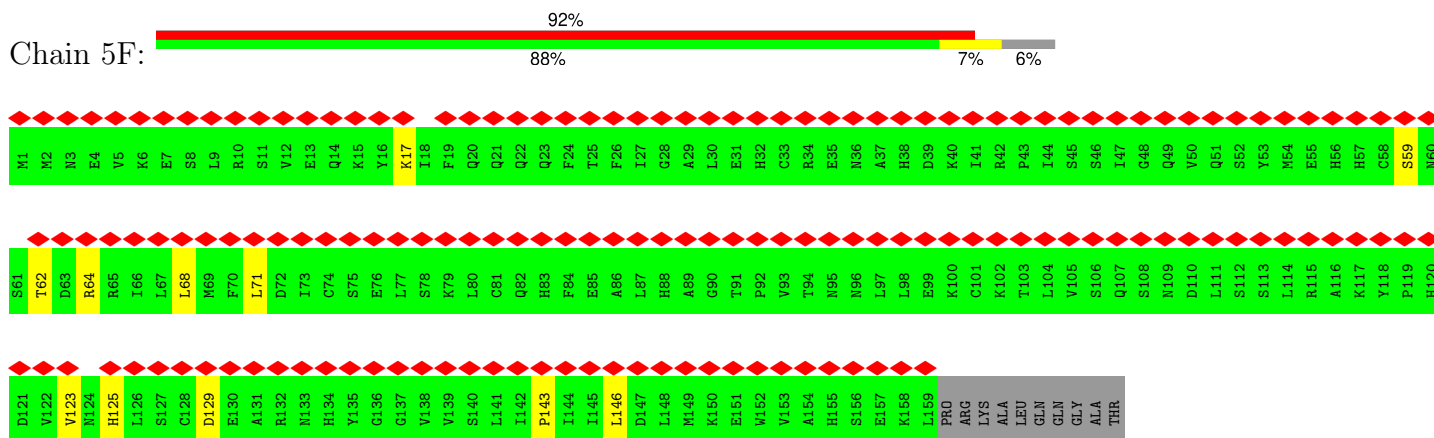


• Molecule 30: RIB43A-like with coiled-coils protein 2

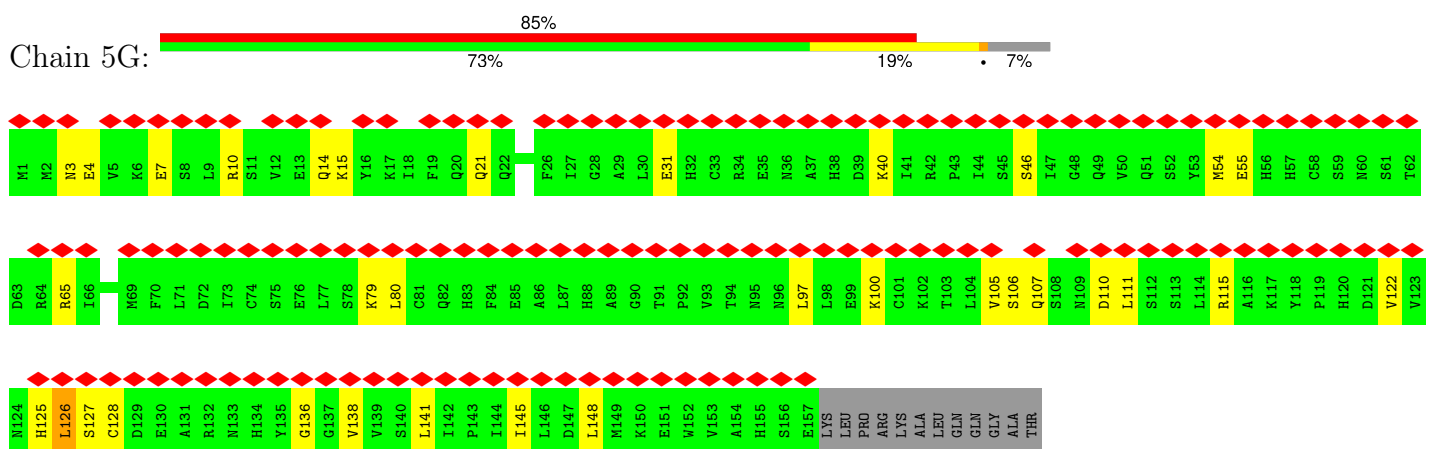


• Molecule 30: RIB43A-like with coiled-coils protein 2

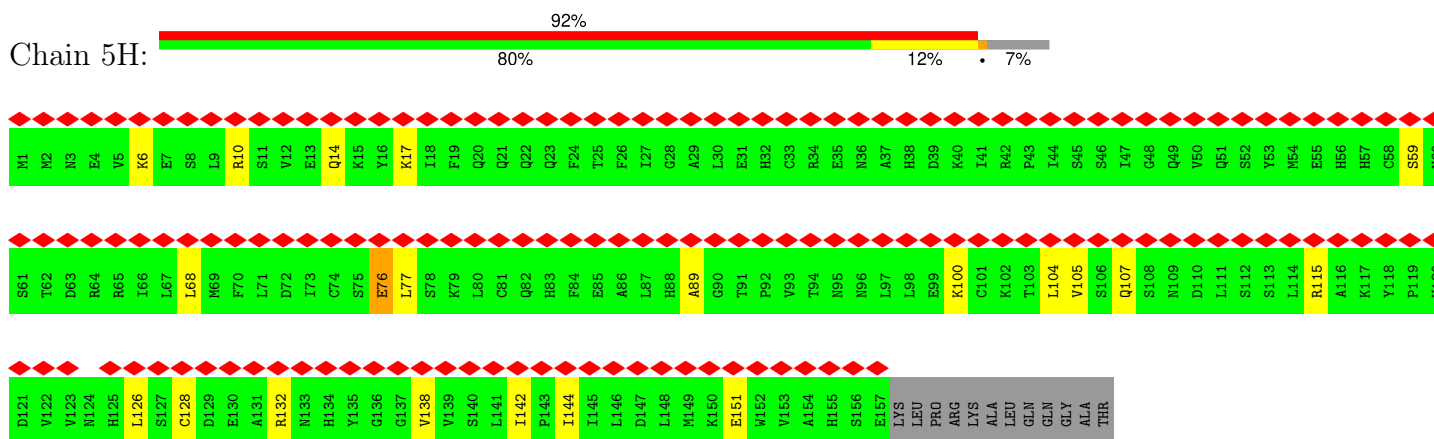




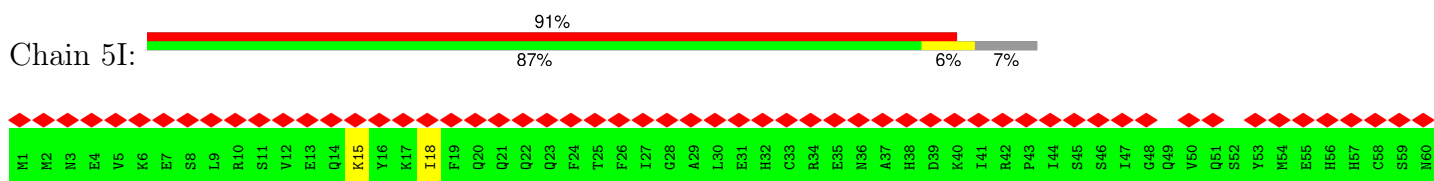
• Molecule 31: Sperm acrosome associated 9

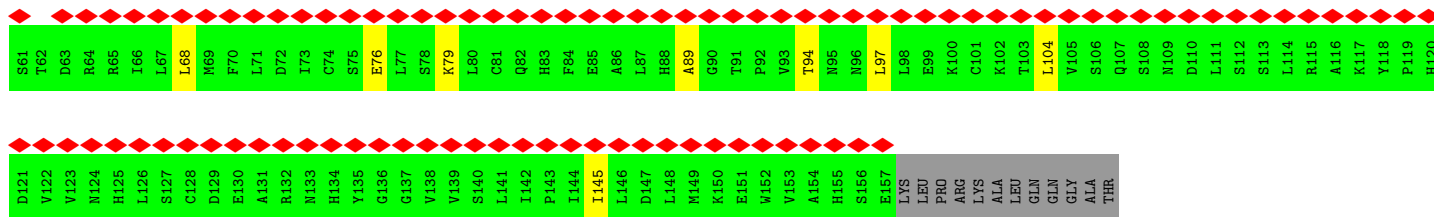


• Molecule 31: Sperm acrosome associated 9

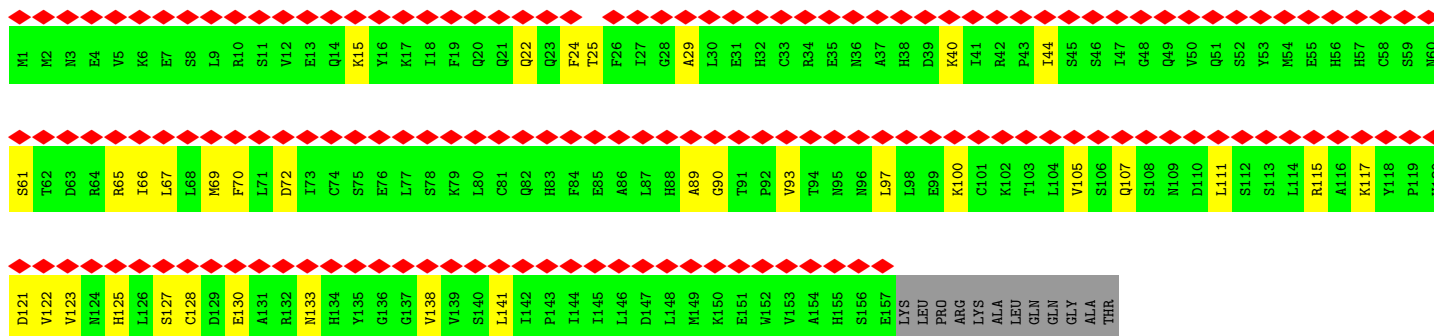
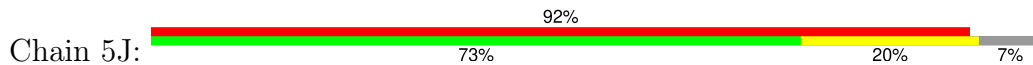


• Molecule 31: Sperm acrosome associated 9

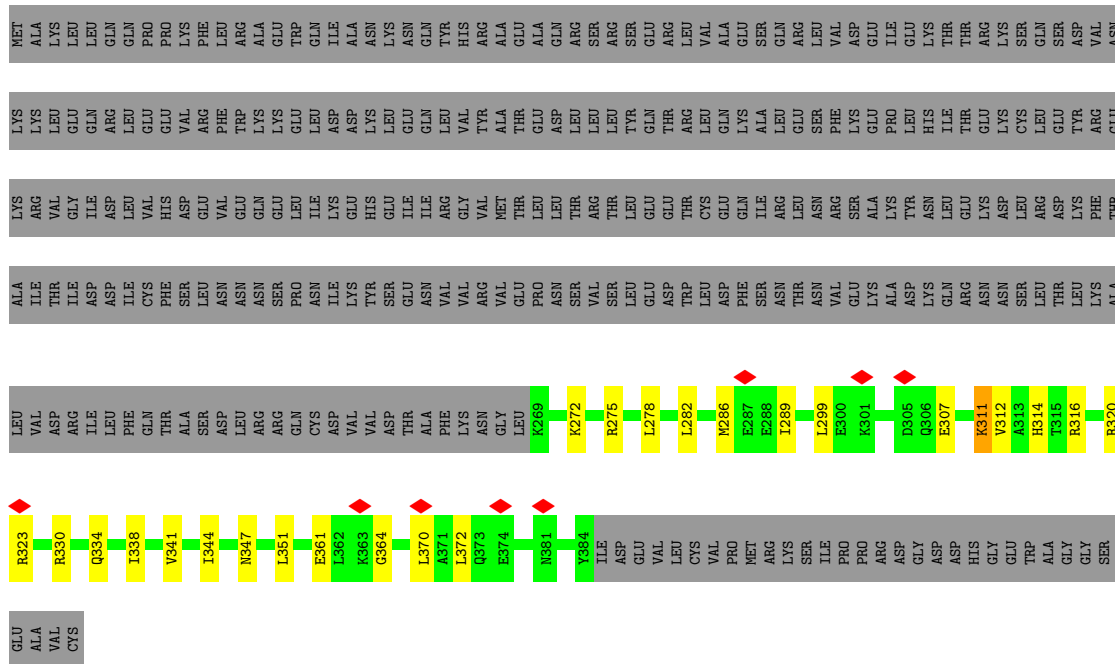




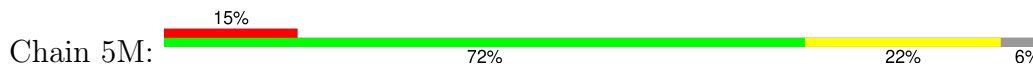
• Molecule 31: Sperm acrosome associated 9

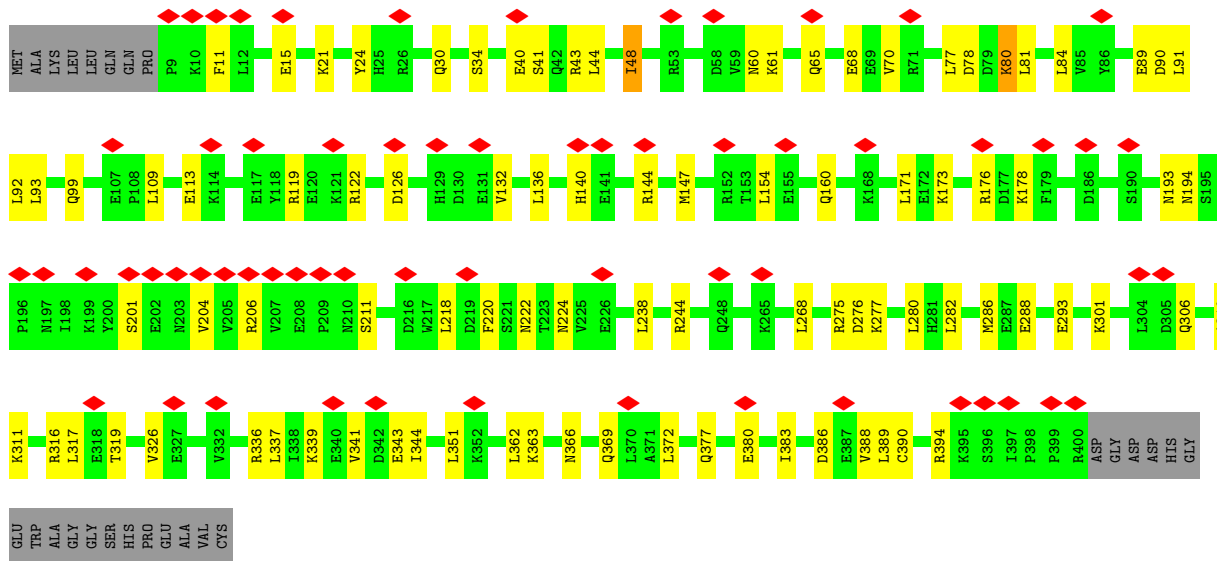


• Molecule 32: Tektin-1

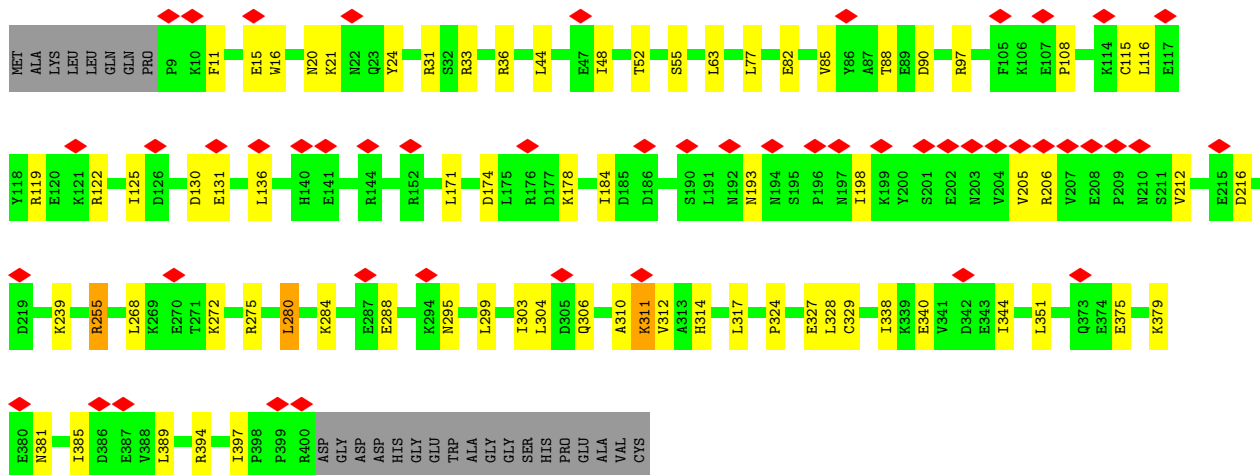
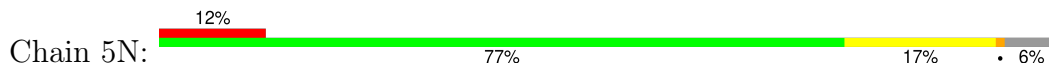


• Molecule 32: Tektin-1

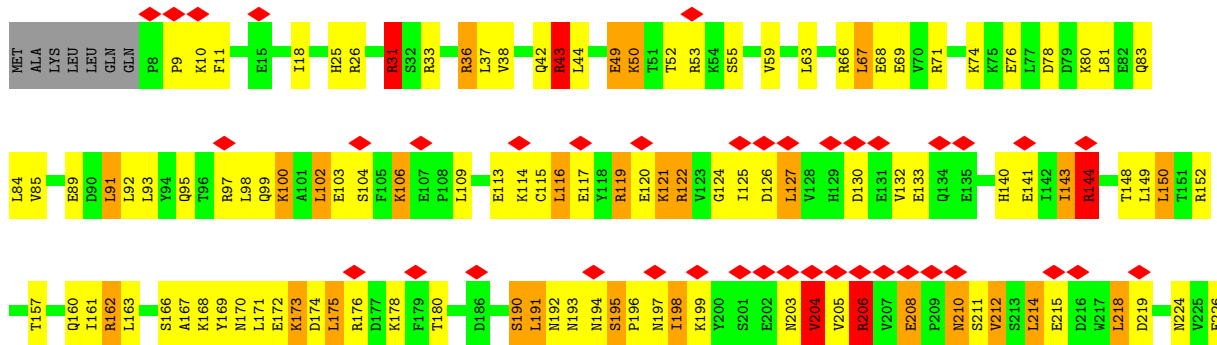


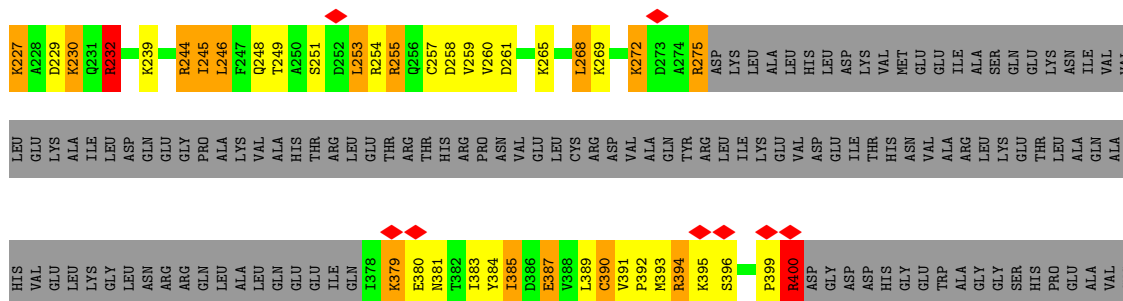


• Molecule 32: Tektin-1

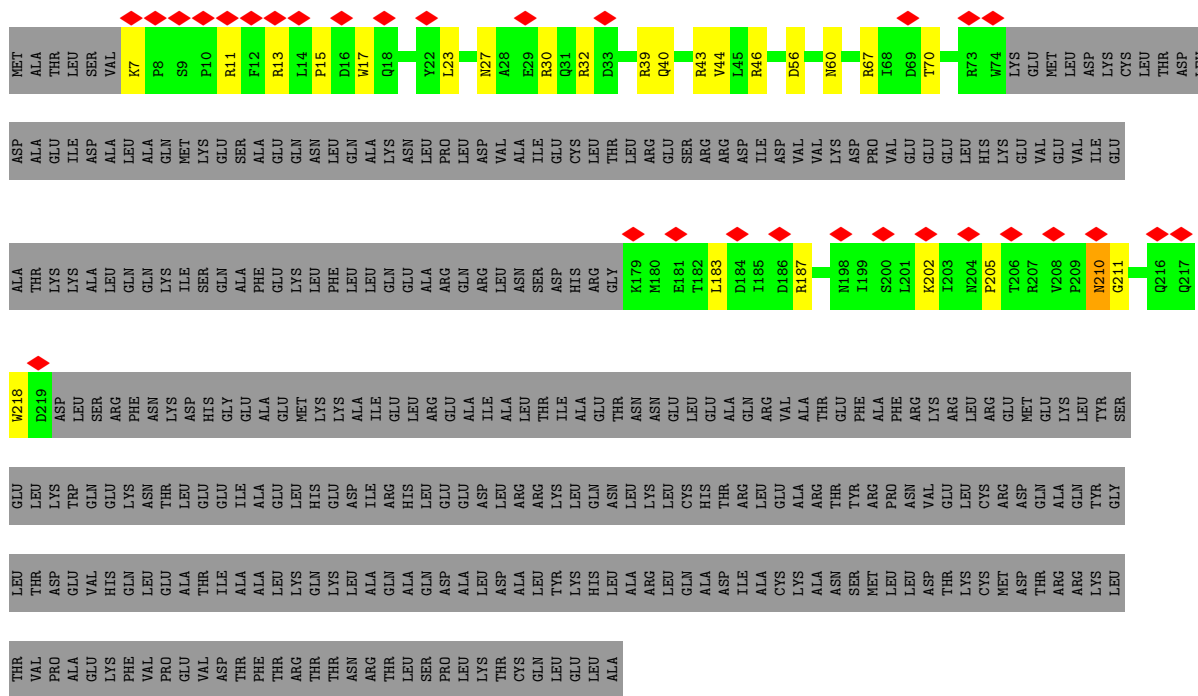


• Molecule 32: Tektin-1

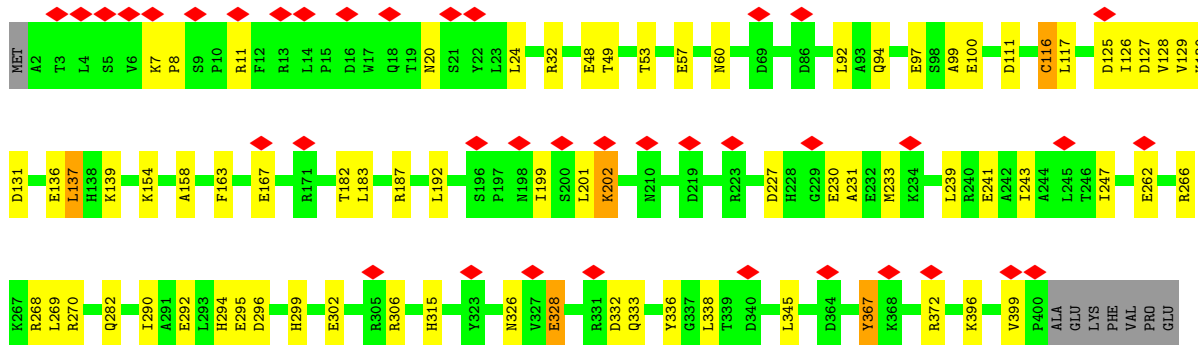
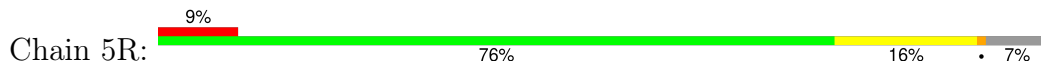




• Molecule 33: Tektin-2

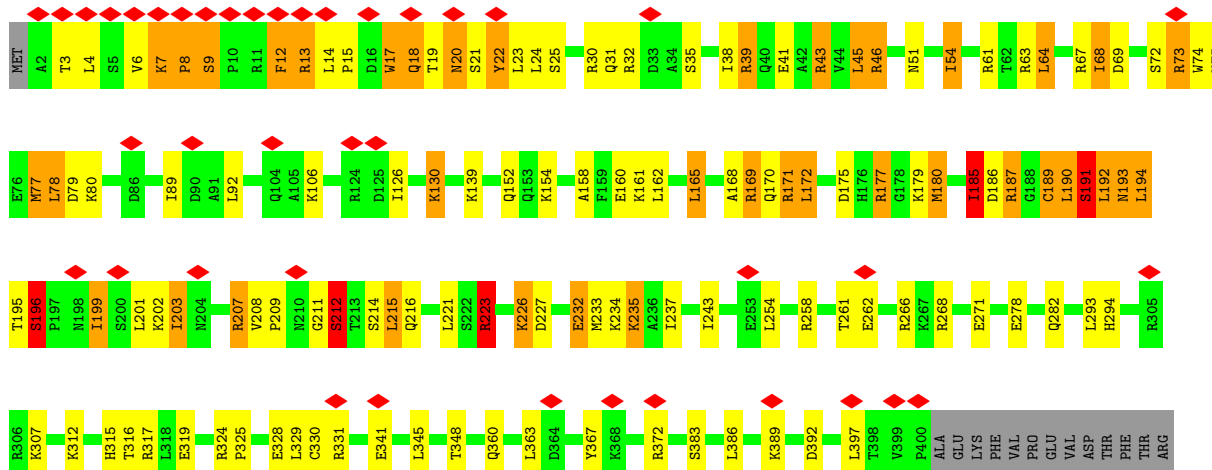


• Molecule 33: Tektin-2



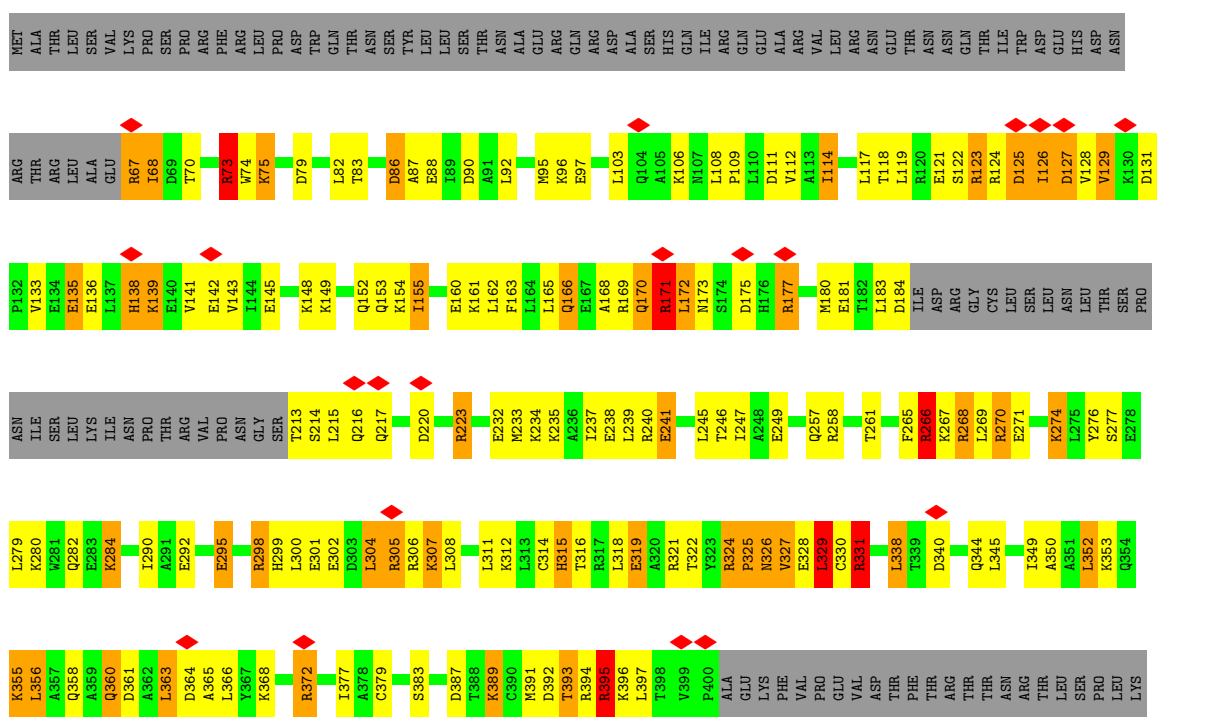
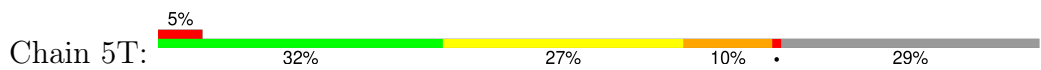
VAL ASP THR PHE THR ARG THR ASN ARG THR LEU SER PRO LEU LYS THR THR GLN LEU LEU LEU ALA

• Molecule 33: Tektin-2



THR THR ASN ARG THR LEU SER PRO LYS THR GLN LEU LEU ALA

• Molecule 33: Tektin-2

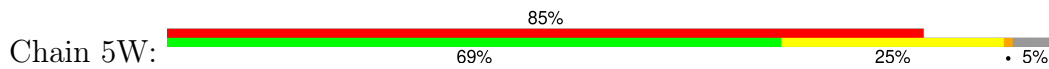


• Molecule 33: Tektin-2

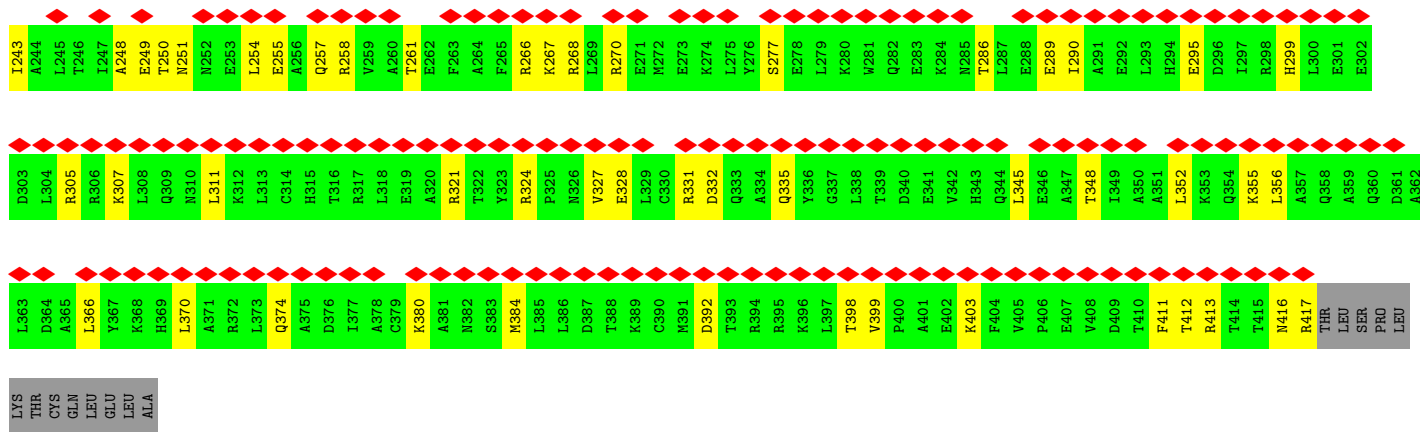


MET	ALA	THR	LEU	SER	VAL	LYS	PRO	SER	PRO	ARG	PHE	ARG	LEU	LEU	PRO	PRO	TRP	ASP	ASP	GLN	THR	ASN	ASN	TYR	LEU	LEU	SER	LEU	LEU	THR	THR	ASN	ALA	ALA	GLU	ARG	GLN	ARG	ASP	ASP	ALA	ALA	HIS	GLN	ILE	ARG	GLN	GLN	GLU	GLU	ALA	VAL	VAL	LEU	ARG	ARG	ASN	GLU	THR	ASN	ASN	ASP	HIS	ASP	ASN
ARG	THR	ARG	LEU	ALA	GLU	ARG	ILE	ASP	THR	THR	VAL	SER	R73	W74	K75	E76	M77	L78	D79	K80	C81	L82	T83	D84	L85	D86	A87	E88	I89	D90	A91	L92	A93	Q94	M95	K96	E97	S98	A99	E100	Q101	M102	L103	Q104	A105	K106	M107	L108	P109	L110	D111	V112	A113	I114	C115	L117	T118	L119	R120						
E121	S122	R123	R124	L245	D126	D127	V128	V129	K130	D131	P132	V133	E134	E135	E136	L137	H138	K139	E140	V141	E142	V143	I144	E145	A146	T147	K148	A91	L92	A93	Q94	M95	K96	E97	S98	A99	E100	Q101	M102	L103	Q104	A105	K106	M107	L108	P109	L110	D111	V112	A113	I114	C115	L117	T118	L119	R120									
GLU	THR	LEU	ASP	ILE	ASP	ARG	GLY	CYS	SER	LEU	LEU	ASN	LEU	THR	SER	PRO	ASN	ILE	LYS	LEU	ILE	PRO	THR	ARG	VAL	PRO	GLY	SER	THR	SER	LEU	GLN	Q217	W218	D219	D220	L221	S222	R223	F224	N225	K226	D227	H228	G229	E230	A231	E232	N233	K234	K235	A236	Q170	I237	E238	L239	R240								
E241	A242	T243	A244	L245	T246	A247	E248	E249	N250	N251	N252	E253	L254	E255	A256	Q257	R258	V259	A260	T261	E262	F263	A264	F265	R266	K267	R268	L269	R270	E271	M272	K273	K274	L275	Y276	S277	E278	L279	K280	W281	Q282	E283	K284	N285	T286	L287	E288	E289	I290	A291	E292	I293	L294	E295	D296	R297	R298	H299	L300						
E301	E302	D303	L304	R305	R306	K307	L308	G309	N310	L311	K312	L313	E314	H315	T316	R317	L318	E319	A320	F263	R264	Y323	R324	P325	N326	V327	E328	L329	C330	R331	D332	A333	K334	Q335	Y336	G337	L338	T339	D340	E341	K403	V342	H343	L344	E346	A347	D409	T410	F411	A350	K353	Q354	K355	L356	A357	Q358	A359	D361							
A362	L363	D364	A365	L366	Y367	K368	H369	L370	A371	R372	L373	Q374	A375	D376	I377	A378	C379	K380	A381	S383	M384	L385	L386	D387	T388	K389	C390	M391	D392	T393	R394	R395	H396	K397	T398	V399	P400	A401	E402	K403	F404	V405	P406	E407	V408	T409	T410	F411	T412	R413	T414	T415	N416	ARG	THR	LEU	SER	PRO							
LEU	LYS	THR	GLN	LEU	GLU	LEU	ALA	P10	R11	F12	R13	L14	P15	D16	W17	Q18	T19	N20	S21	Y22	L23	L24	S25	T26	N27	A28	E29	R30	Q31	R32	D33	A34	S35	H36	Q37	I38	R39	Q40	E41	A42	R43	V44	L45	R46	M47	E48	T49	N50	N51	Q52	T53	I54	W55	D56	E57	H58	D59	N60							
R61	T62	R63	L64	A65	E66	R67	I68	D69	R73	W74	K75	E76	M77	L78	D79	K80	C81	L82	T83	D84	L85	D86	A87	E88	I89	D90	A91	L92	A93	Q94	M95	K96	E97	S98	A99	E100	Q101	N102	L103	Q104	A105	K106	N107	L108	P109	L110	D111	V112	A113	I114	E115	C116	L117	T118	L119	R120	E121	S122							
R123	R124	D125	I126	A127	E128	V129	K130	D131	P132	V133	E134	E135	E136	L137	H138	K139	E140	V141	E142	V143	I144	E145	A146	T147	K148	A149	A150	L151	Q152	Q153	I155	S156	Q157	A158	F159	E160	K161	L162	F163	L164	L165	Q166	E167	A168	R169	Q170	R171	L172	N173	S174	D175	H176	R177	G178	K179	M180	E181	T182							
L183	D184	I185	D186	R187	G188	C189	L190	S191	L192	N193	L194	T195	S196	P197	N198	I199	S200	L201	K202	I203	N204	P205	T206	R207	V208	P209	N210	L211	G211	S212	T213	S214	L215	Q216	Q217	W218	D219	D220	L221	S222	R223	F224	N225	K226	D227	H228	G229	E230	A231	E232	M233	K234	K235	A236	I237	E238	L239	R240	E241	A242					

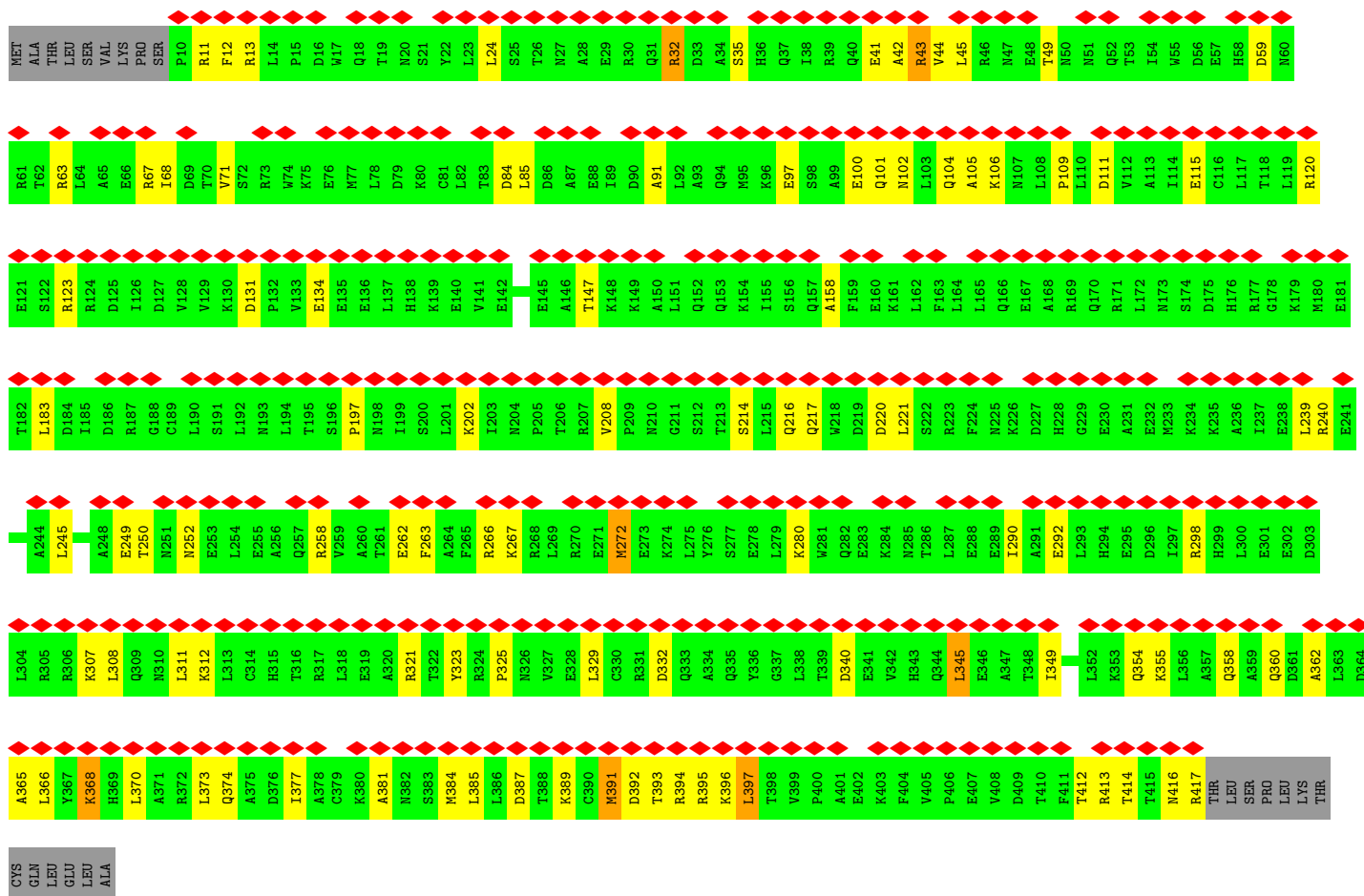
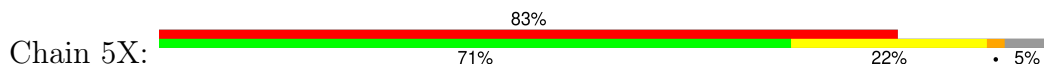
• Molecule 33: Tektin-2



MET	ALA	THR	LEU	SER	VAL	LYS	PRO	SER	P10	R11	F12	R13	L14	P15	D16	W17	Q18	T19	N20	S21	Y22	L23	L24	S25	T26	N27	A28	E29	R30	Q31	R32	D33	A34	S35	H36	Q37	I38	R39	Q40	E41	A42	R43	V44	L45	R46	M47	E48	T49	N50	N51	Q52	T53	I54	W55	D56	E57	H58	D59	N60	
R61	T62	R63	L64	A65	E66	R67	I68	D69	R73	W74	K75	E76	M77	L78	D79	K80	C81	L82	T83	D84	L85	D86	A87	E88	I89	D90	A91	L92	A93	Q94	M95	K96	E97	S98	A99	E100	Q101	N102	L103	Q104	A105	K106	N107	L108	P109	L110	D111	V112	A113	I114	E115	C116	L117	T118	L119	R120	E121	S122		
R123	R124	D125	I126	A127	E128	V129	K130	D131	P132	V133	E134	E135	E136	L137	H138	K139	E140	V141	E142	V143	I144	E145	A146	T147	K148	A149	A150	L151	Q152	Q153	I155	S156	Q157	A158	F159	E160	K161	L162	F163	L164	L165	Q166	E167	A168	R169	Q170	R171	L172	N173	S174	D175	H176	R177	G178	K179	M180	E181	T182		
L183	D184	I185	D186	R187	G188	C189	L190	S191	L192	N193	L194	T195	S196	P197	N198	I199	S200	L201	K202	I203	N204	P205	T206	R207	V208	P209	N210	L211	G211	S212	T213	S214	L215	Q216	Q217	W218	D219	D220	L221	S222	R223	F224	N225	K226	D227	H228	G229	E230	A231	E232	M233	K234	K235	A236	I237	E238	L239	R240	E241	A242

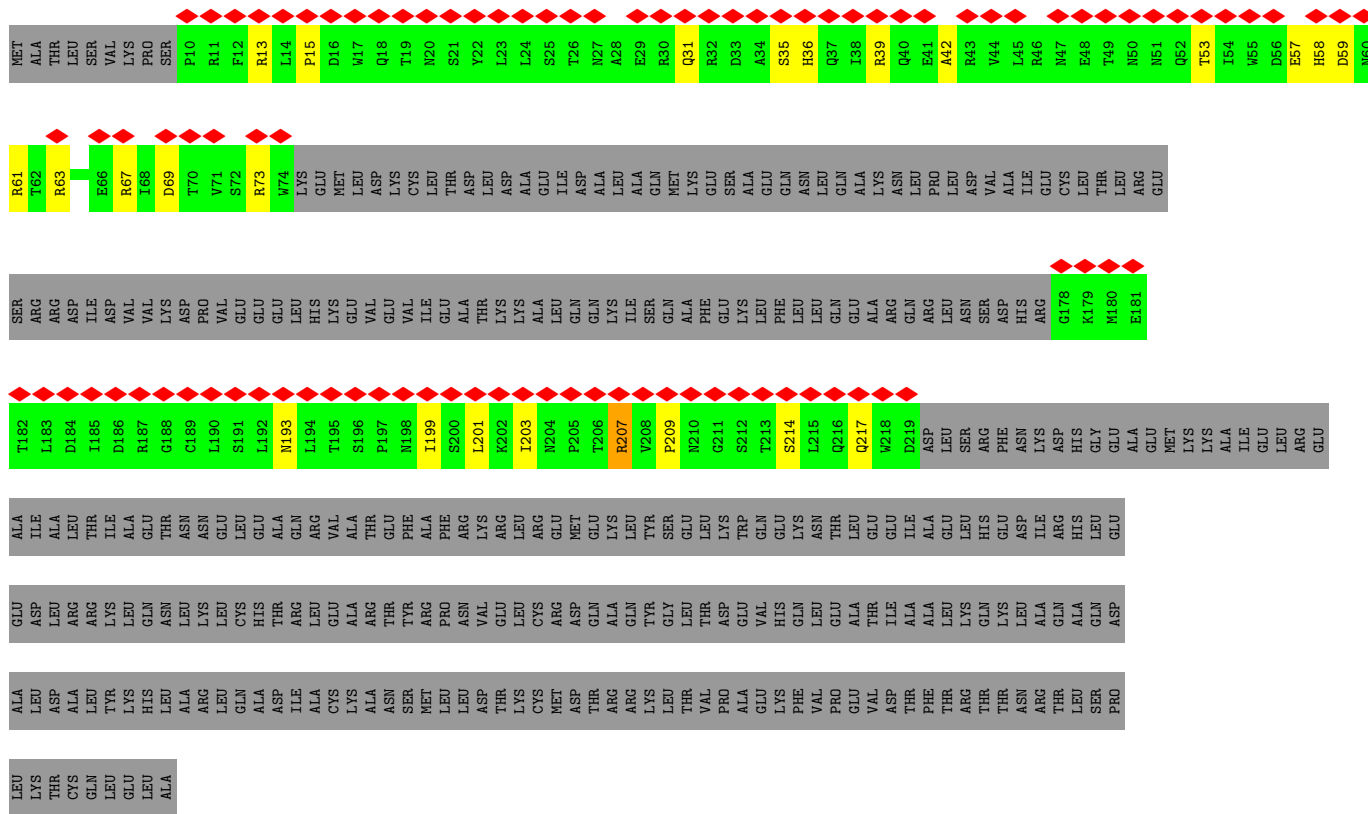


• Molecule 33: Tektin-2

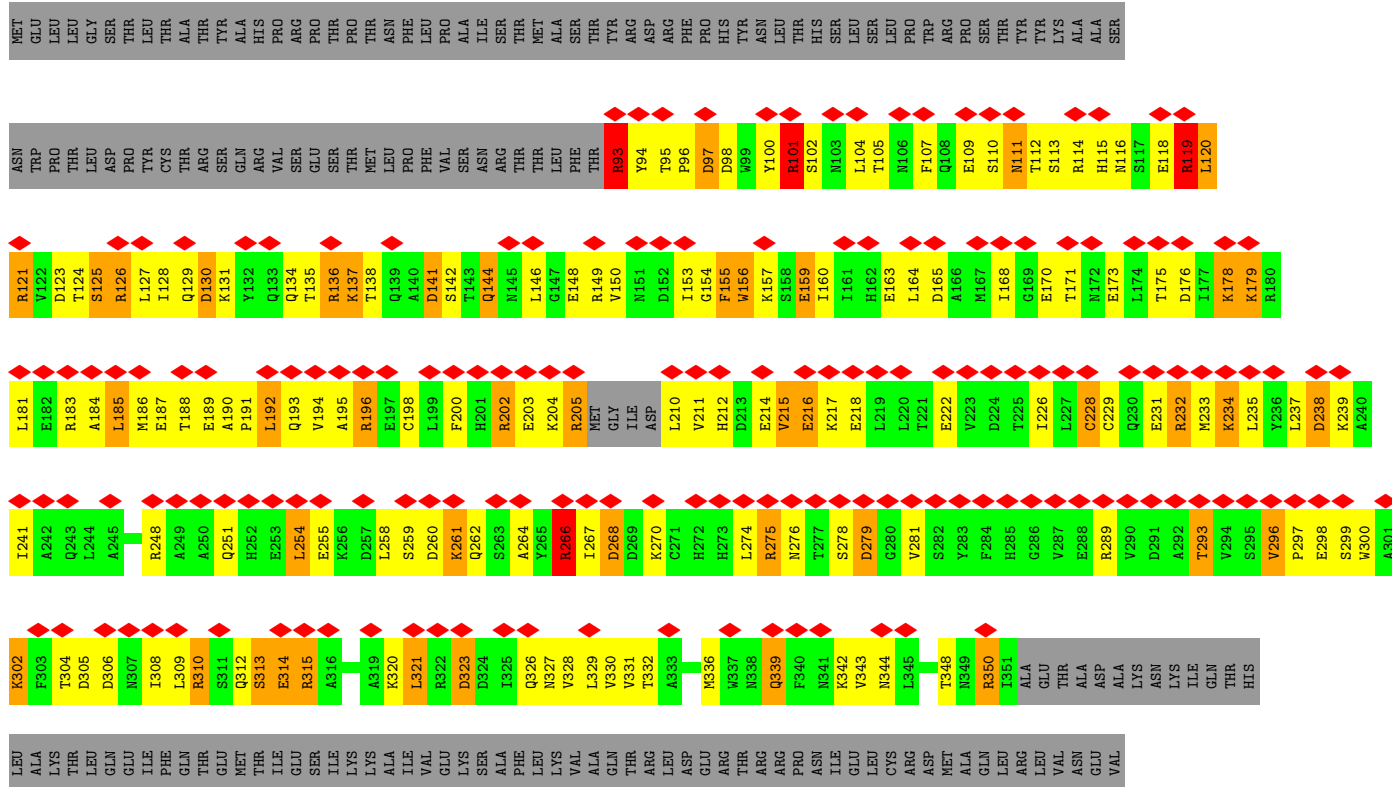


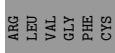
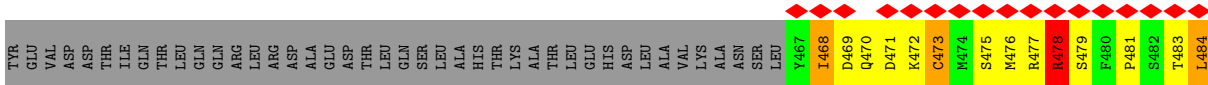
• Molecule 33: Tektin-2



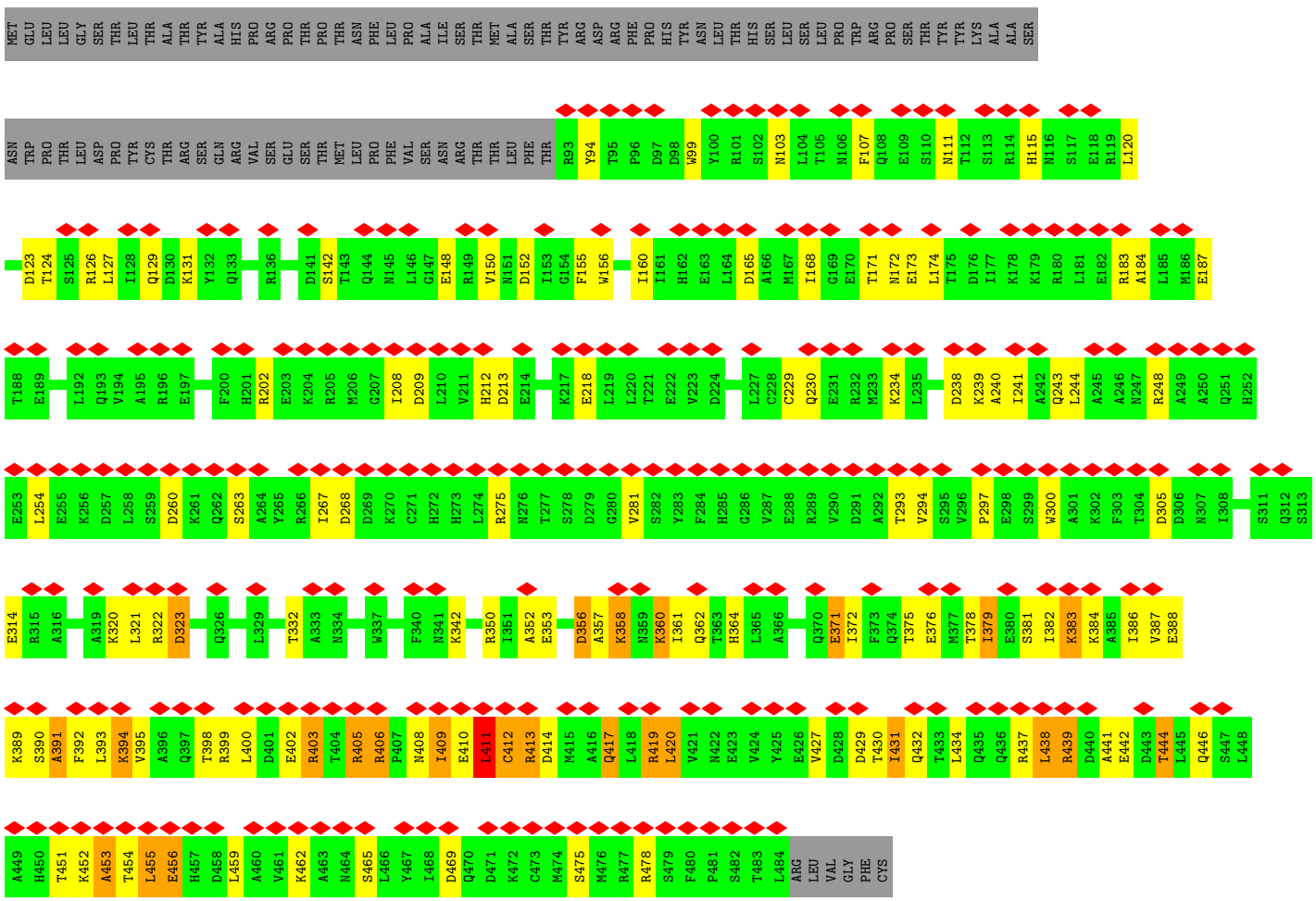


• Molecule 34: Tektin-3

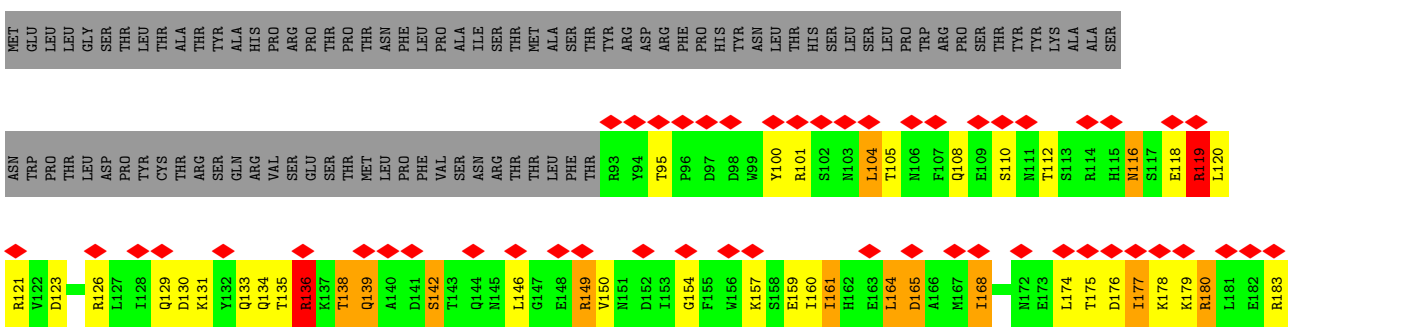


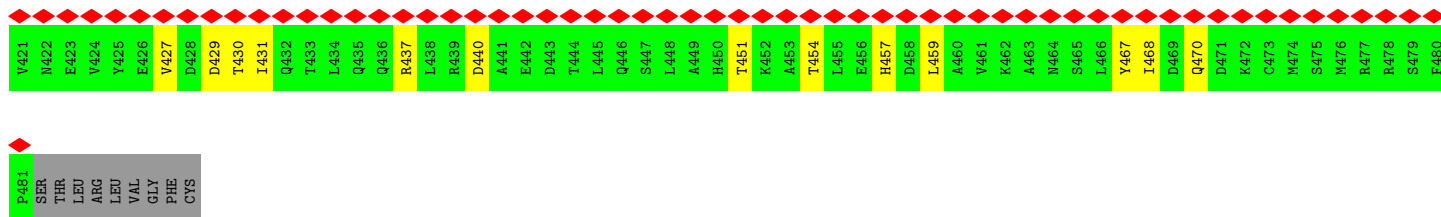


• Molecule 34: Tektin-3

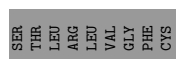
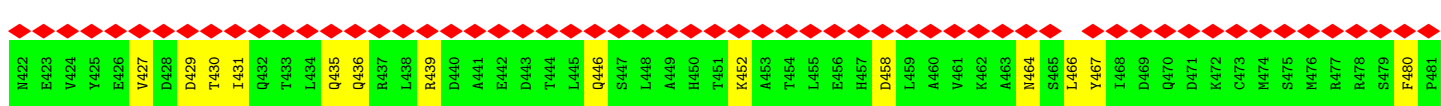
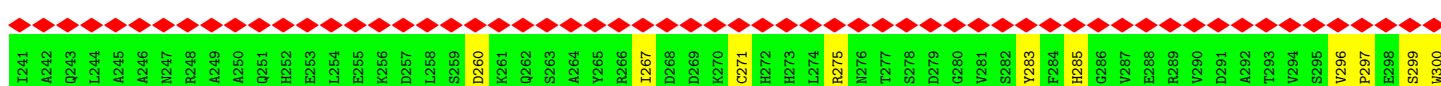
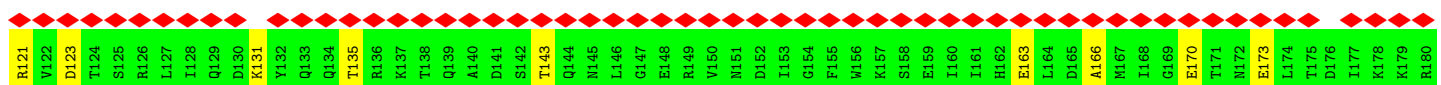
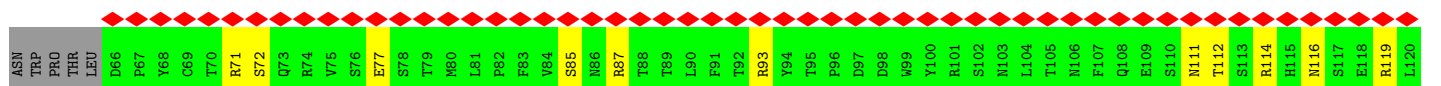
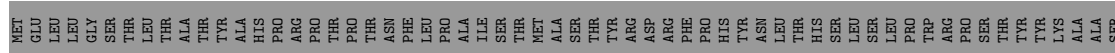
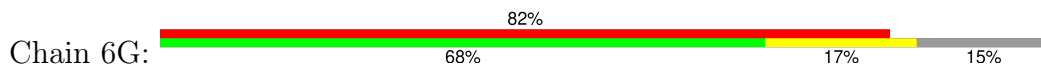


• Molecule 34: Tektin-3

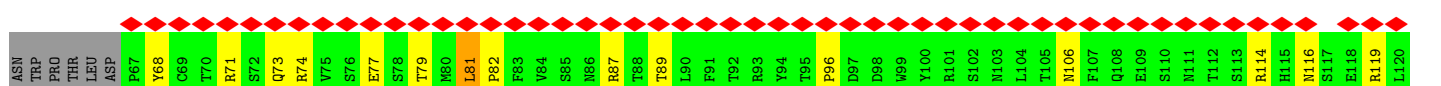
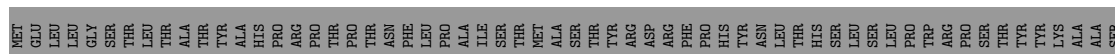
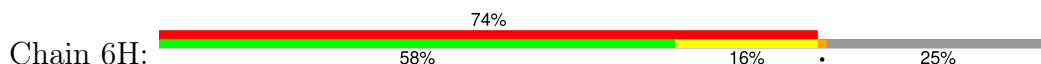


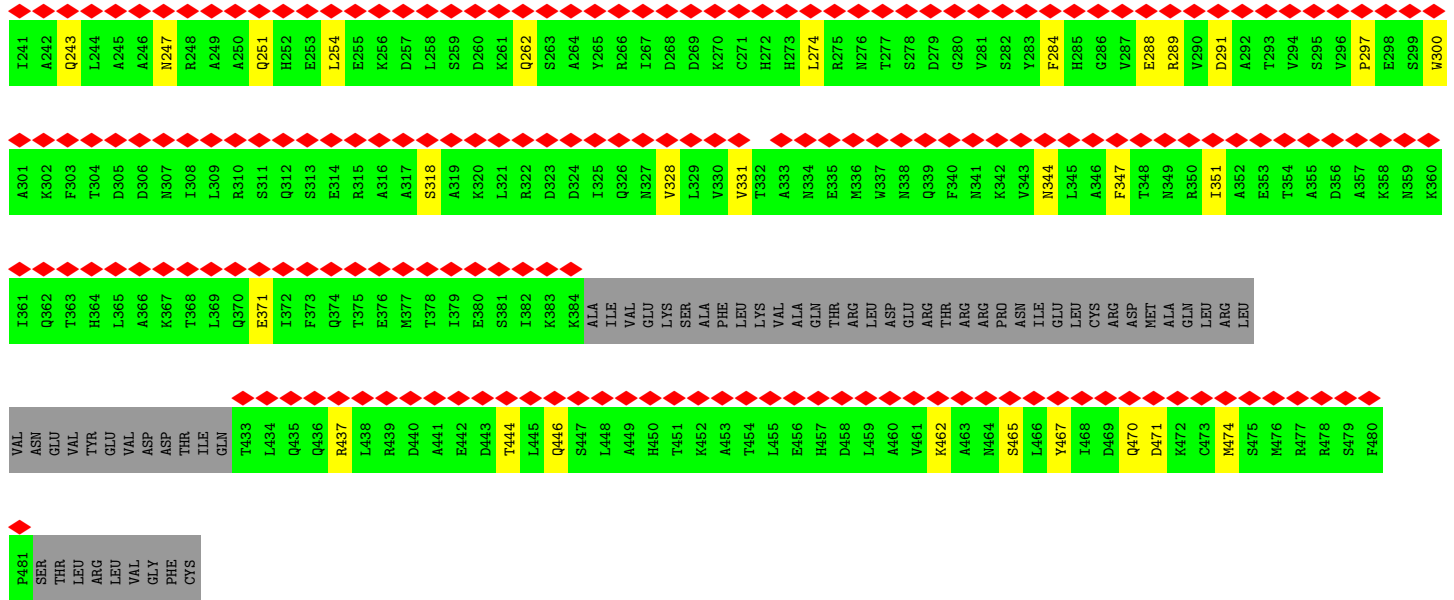


• Molecule 34: Tektin-3



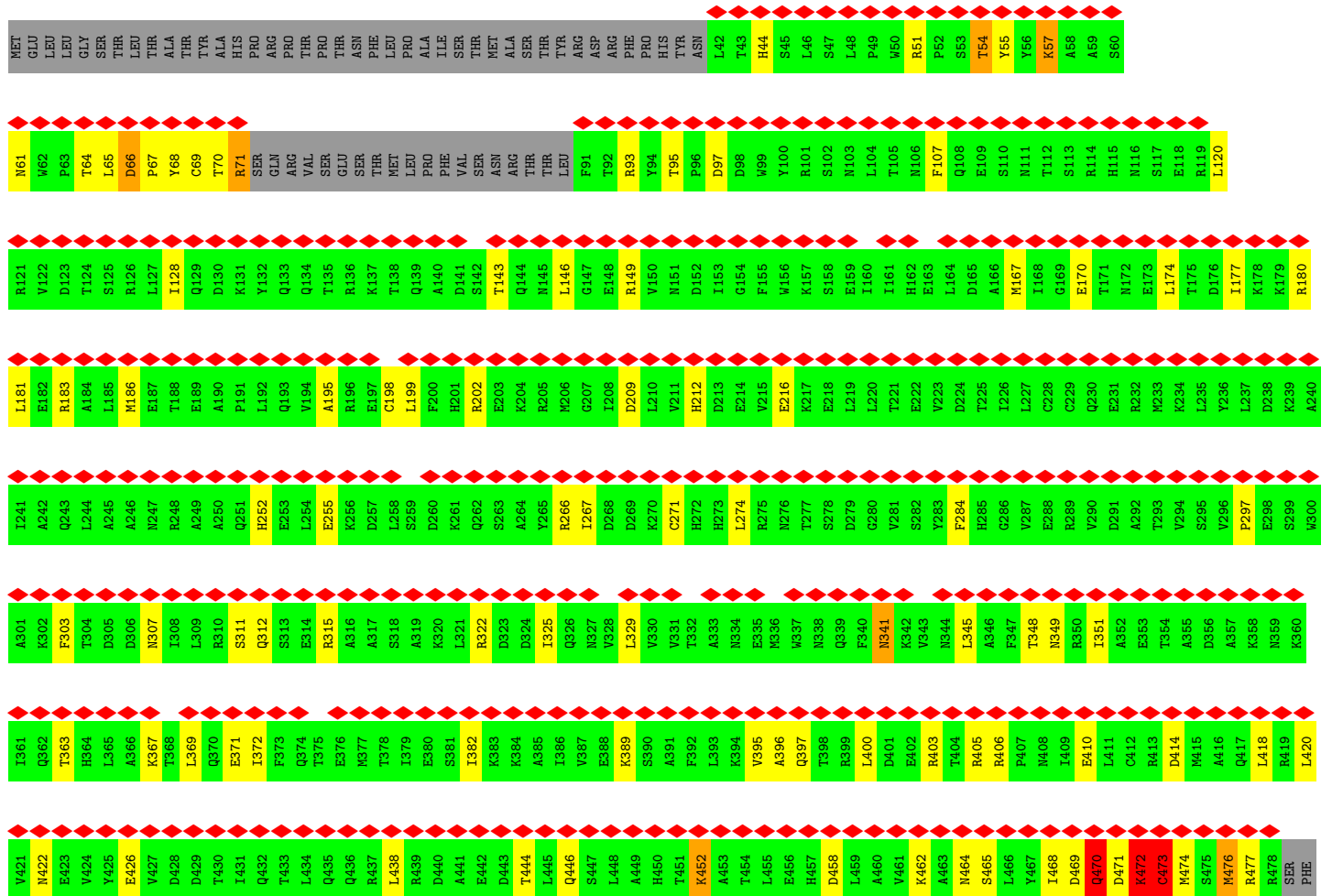
• Molecule 34: Tektin-3

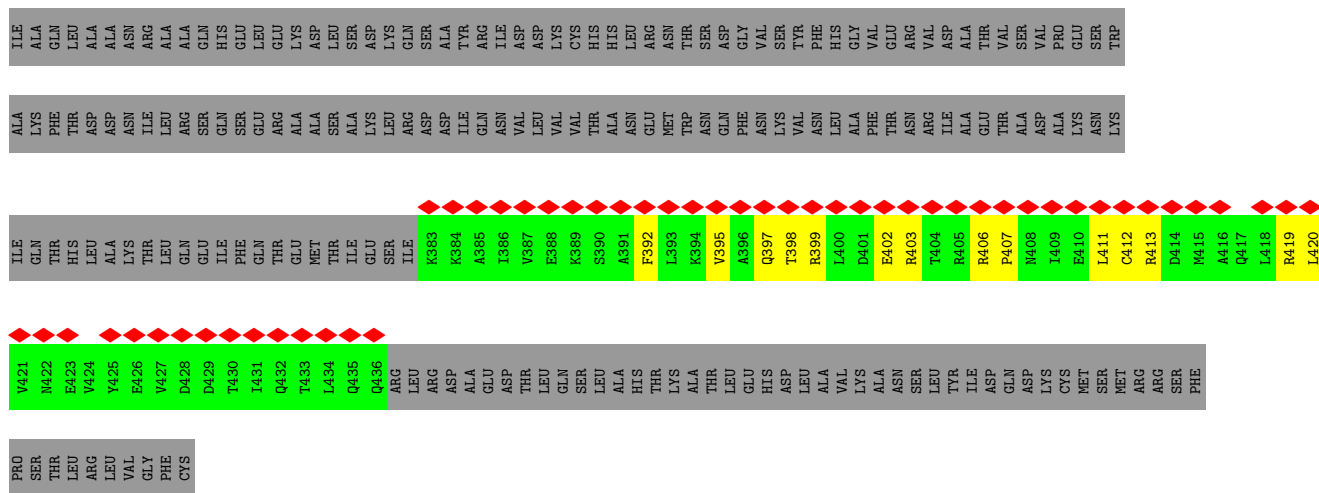




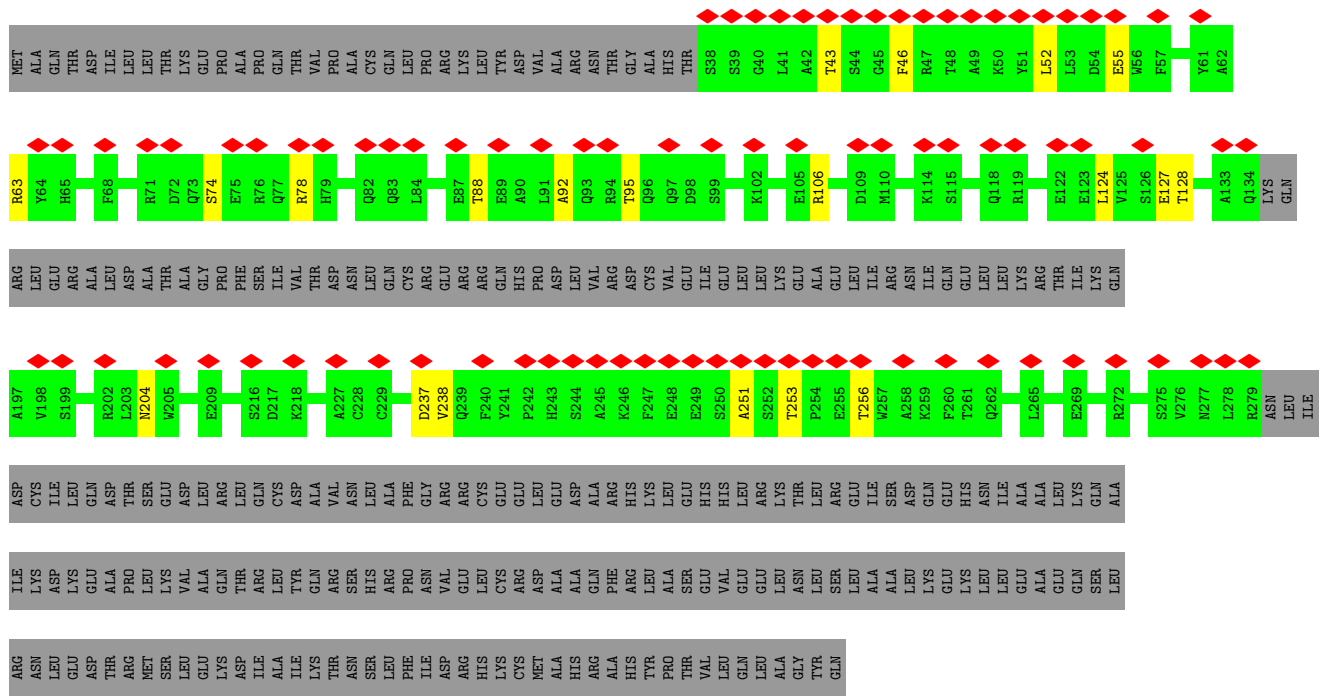
Molecule 34: Tektin-3

Chain 6L:

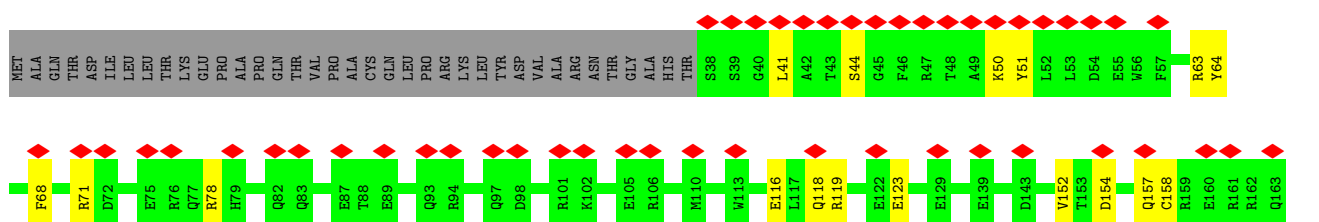
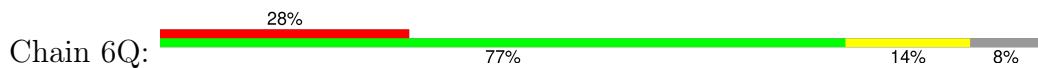


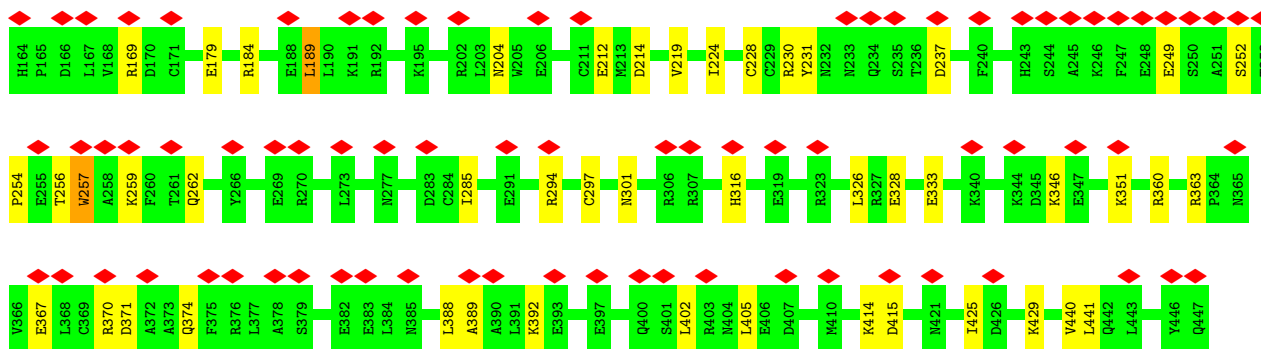


• Molecule 35: Tektin-4

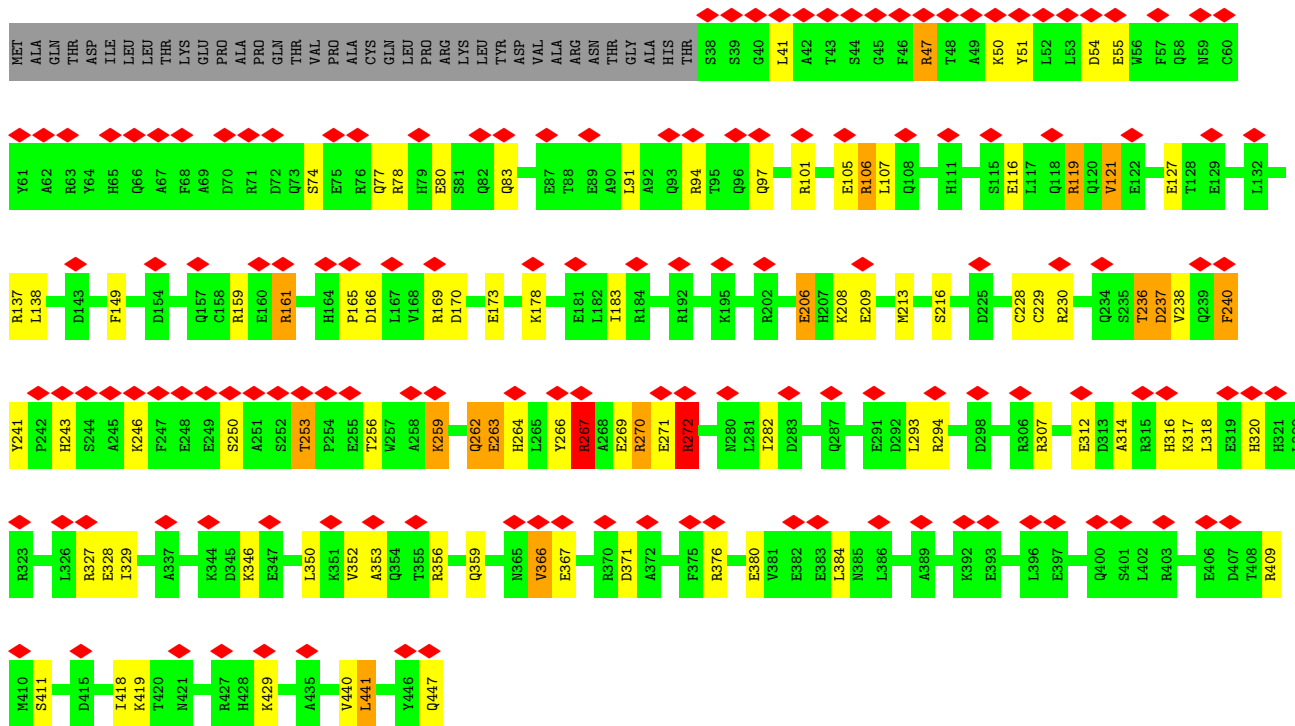


• Molecule 35: Tektin-4

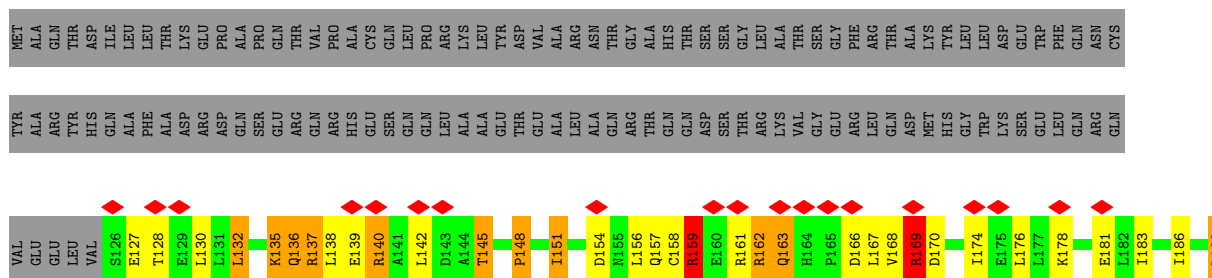
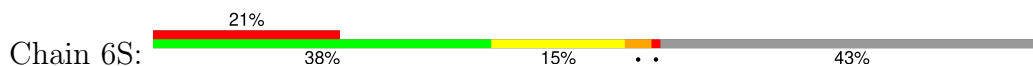


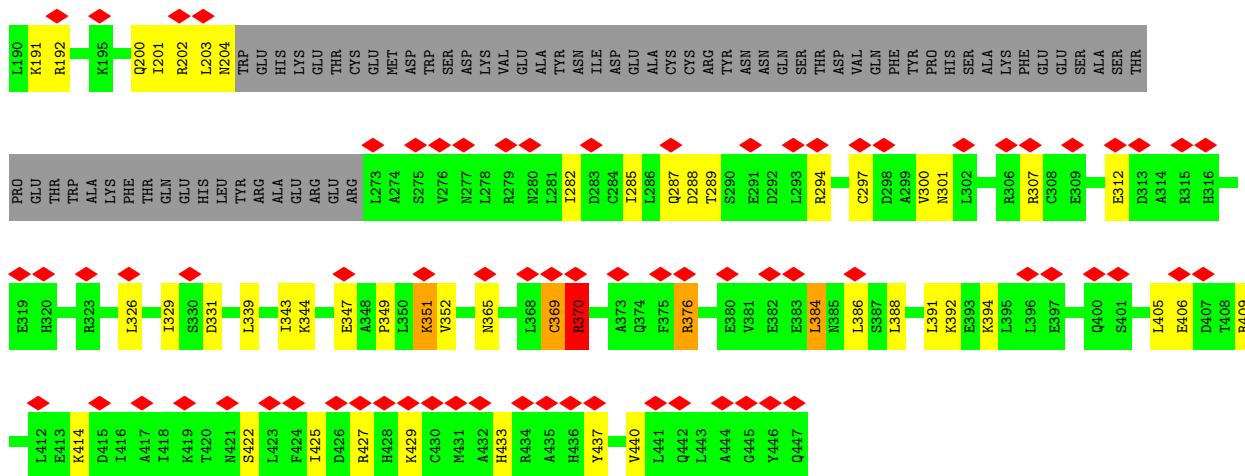


• Molecule 35: Tektin-4

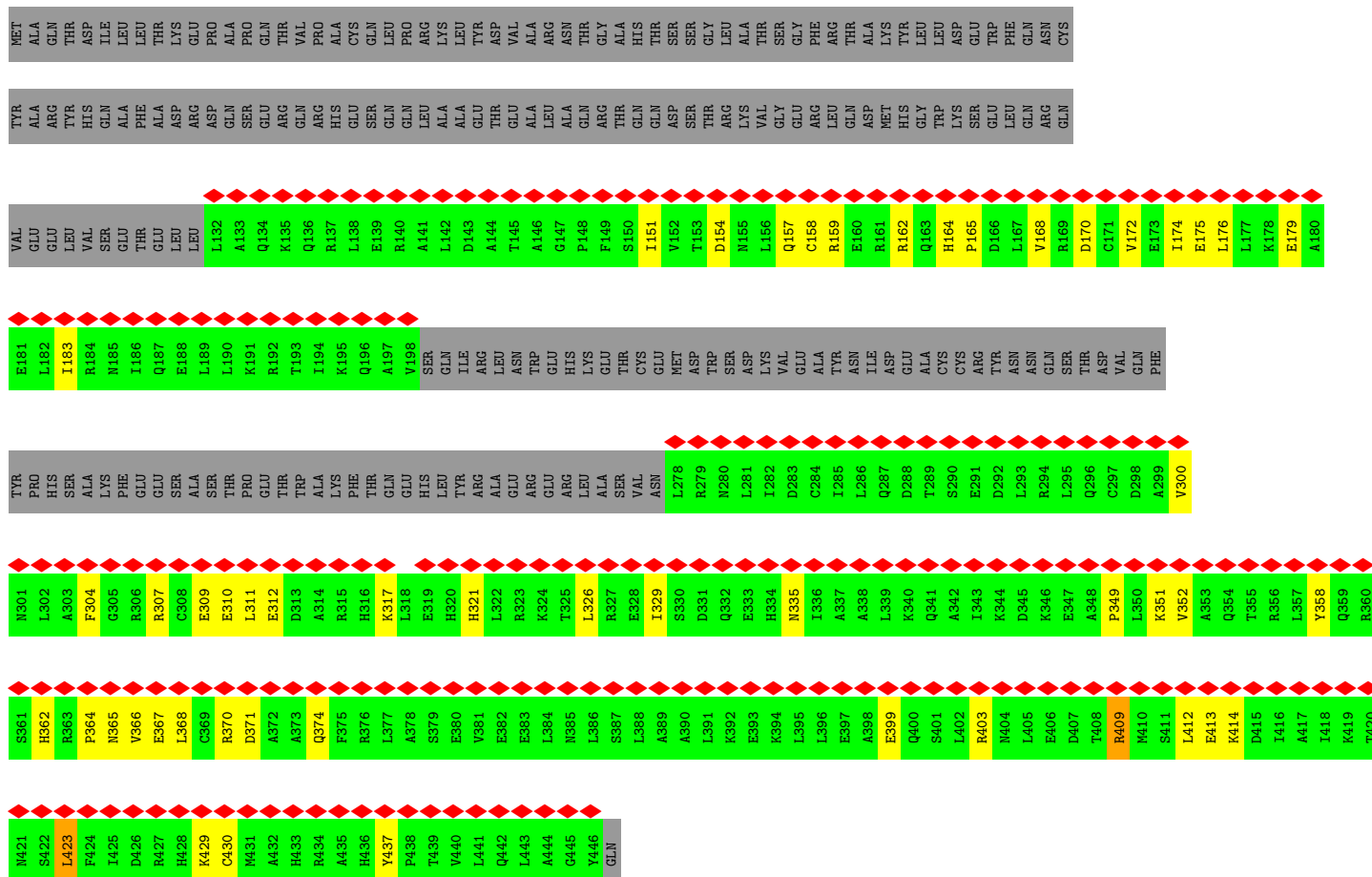
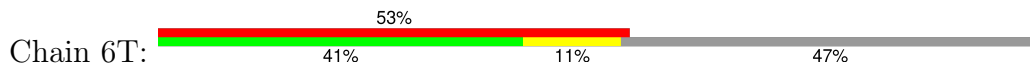


• Molecule 35: Tektin-4

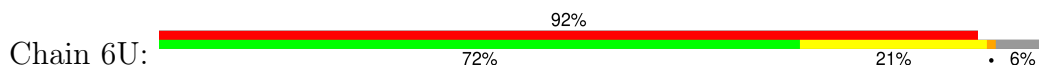




- Molecule 35: Tektin-4



- Molecule 35: Tektin-4

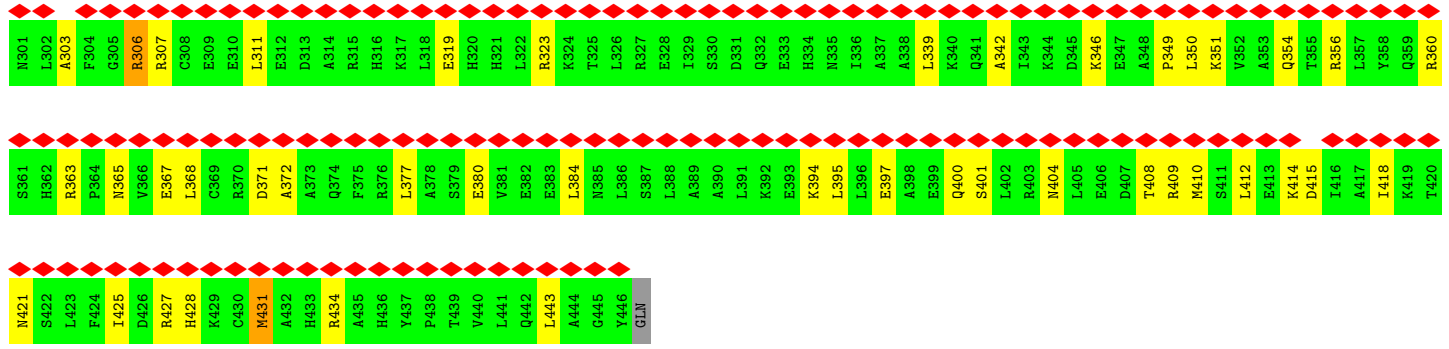


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Y241	P242	H243	S244	A245	K246	F247	E248	E249	S250	A251	S252	T253	P254	E255	T256	W257	A258	K259	F260	T261	Q262	E263	L264	L265	Y266	R267	A268	E269	R270	E271	R272	L273	A274	S275	V276	W277	L278	R279	N280	L281	D282	C283	G284	L285	L286	Q287	D288	T289	S290	E291	D292	L293	R294	L295	Q296	C297	D298	A299	V300
E181	L182	I183	R184	M185	I186	Q187	E188	L189	L190	K191	R192	T193	I194	K195	Q196	A197	V198	S199	Q200	I201	R202	L203	N204	T145	A146	G147	F148	F149	H150	I151	V152	T153	D154	N155	Q156	Q157	D158	D159	E160	R161	R162	Q163	G164	P165	D166	L167	V168	R169	M110	C171	G172	W173	K174	S175	E176	L177	L178	E179	A180
L301	A303	F304	G305	R306	R307	C308	E309	E310	L311	E312	D313	A314	R315	H316	K317	L318	E319	H320	H321	L322	R323	K324	T325	L326	R327	E328	I329	S330	R270	D331	Q332	E333	H334	N335	I336	A337	A338	L339	K340	Q341	A342	I343	K344	D345	K346	E347	A348	P349	L350	K351	V352	A353	Q354	T355	R356	L357	Y358	Q359	R360
S361	H362	R363	P364	N365	V366	E367	L368	C369	R370	D371	A372	A373	Q374	F375	R376	L377	A378	S379	E380	V381	E382	E383	L384	N385	L386	S387	L388	A389	A390	L391	K392	E393	K394	L395	L396	E397	A398	E399	Q400	S401	L402	R403	N404	L405	A406	D407	T408	R409	M410	S411	L412	E413	K414	D415	A416	A417	I418	K419	T420
M421	S422	L423	F424	I425	D426	R427	H428	K429	C430	M431	A432	H433	R434	A435	H436	Y437	P438	T439	V440	L441	Q442	L443	A444	G445	Y446	GLN																																	

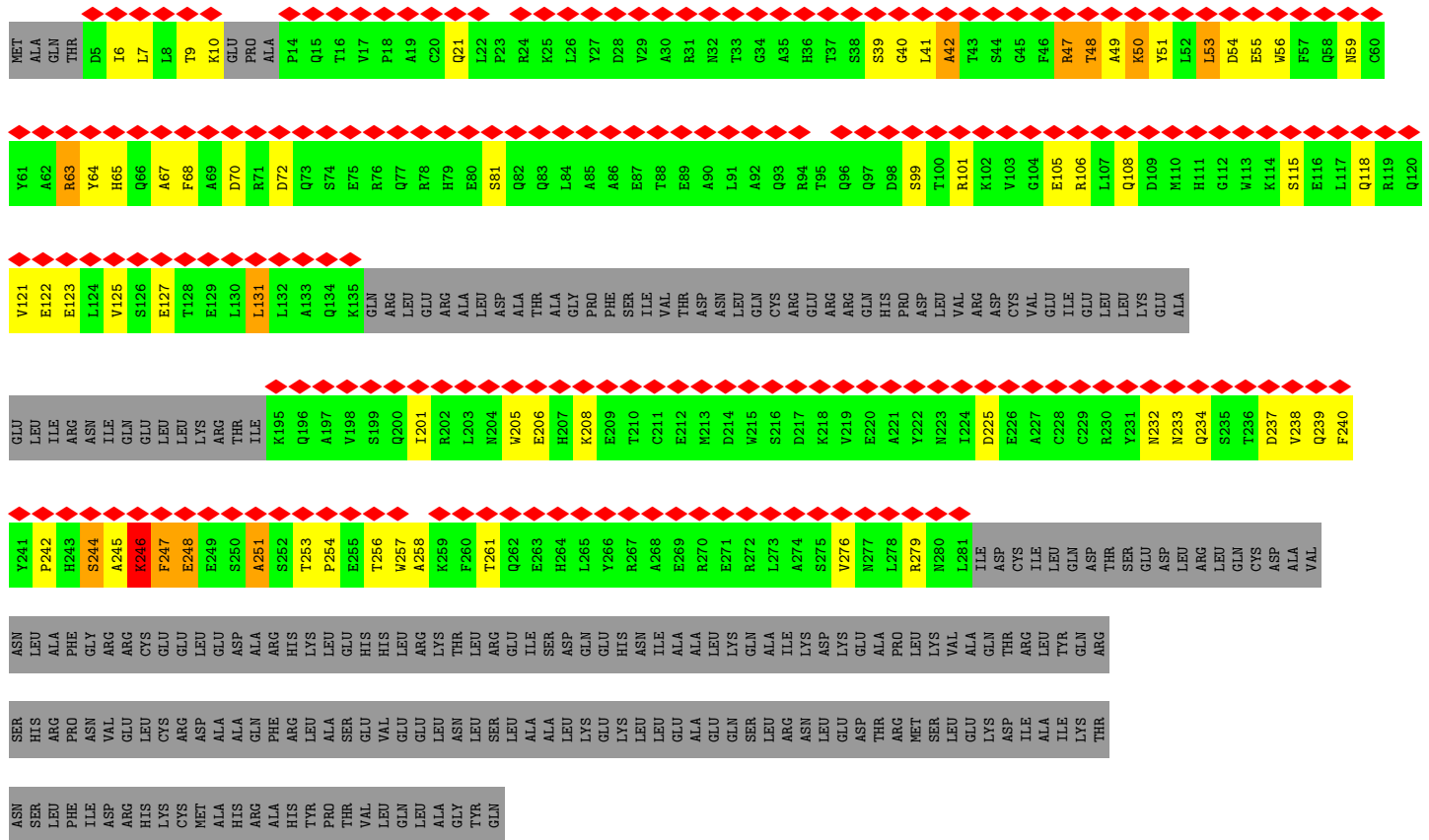
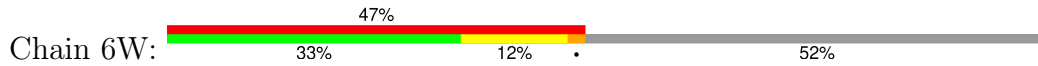
• Molecule 35: Tektin-4



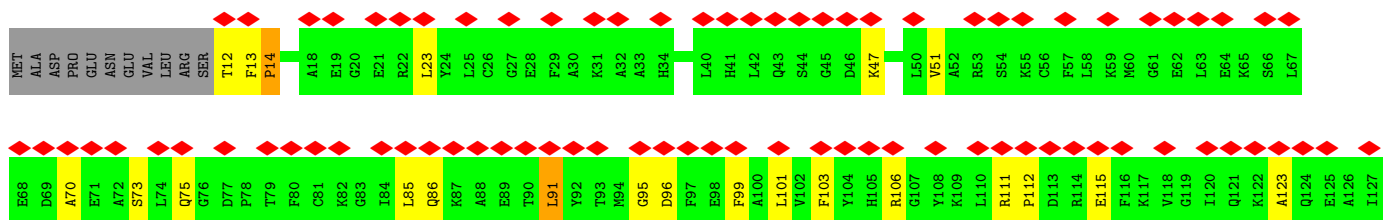
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Y61	A62	R63	Y64	H65	Q66	A67	F68	A69	D70	R71	D72	Q73	S74	E75	R76	Q77	R78	H79	E80	S81	Q82	Q83	L84	A85	A86	E87	T88	R89	S90	A91	L91	A92	Q93	R94	N95	Q96	Q97	D98	S99	T100	R101	K102	V103	G104	E105	R106	L107	Q108	D109	M110	H111	G112	W113	K114	S115	E116	L117	Q118	R119	Q120
V121	E122	E123	L124	V125	S126	E127	L128	E129	L130	L131	A132	A133	Q134	K135	Q136	R137	L138	E139	R140	A141	L142	D143	A144	T145	A146	G147	F148	F149	S150	I151	V152	T153	D154	N155	L156	Q157	C158	R159	E160	R161	R162	Q163	H164	I224	P165	D166	L167	V168	R169	D170	C171	V172	E173	I174	E175	L176	L177	K178	E179	A180
E181	L182	I183	R184	M185	I186	Q187	E188	L189	L190	K191	R192	T193	I194	K195	Q196	A197	V198	S199	Q200	I201	R202	L203	N204	T145	A146	G147	F148	F149	S150	I151	V152	T153	D154	N155	L156	Q157	C158	R159	E160	R161	R162	Q163	H164	I224	P165	D166	L167	V168	R169	D170	C171	V172	E173	I174	E175	L176	L177	K178	E179	A180
E181	L182	I183	R184	M185	I186	Q187	E188	L189	L190	K191	R192	T193	I194	K195	Q196	A197	V198	S199	Q200	I201	R202	L203	N204	T145	A146	G147	F148	F149	S150	I151	V152	T153	D154	N155	L156	Q157	C158	R159	E160	R161	R162	Q163	H164	I224	P165	D166	L167	V168	R169	D170	C171	V172	E173	I174	E175	L176	L177	K178	E179	A180
Y241	P242	H243	S244	A245	K246	F247	E248	E249	S250	A251	S252	T253	P254	E255	T256	W257	A258	K259	F260	T261	Q262	E263	L264	L265	Y266	R267	A268	E269	R270	E271	R272	L273	A274	S275	V276	W277	L278	R279	N280	L281	I282	D283	C284	I285	L286	Q287	D288	T289	S290	E291	D292	L293	R294	L295	Q296	C297	D298	A299	V300	



• Molecule 35: Tektin-4

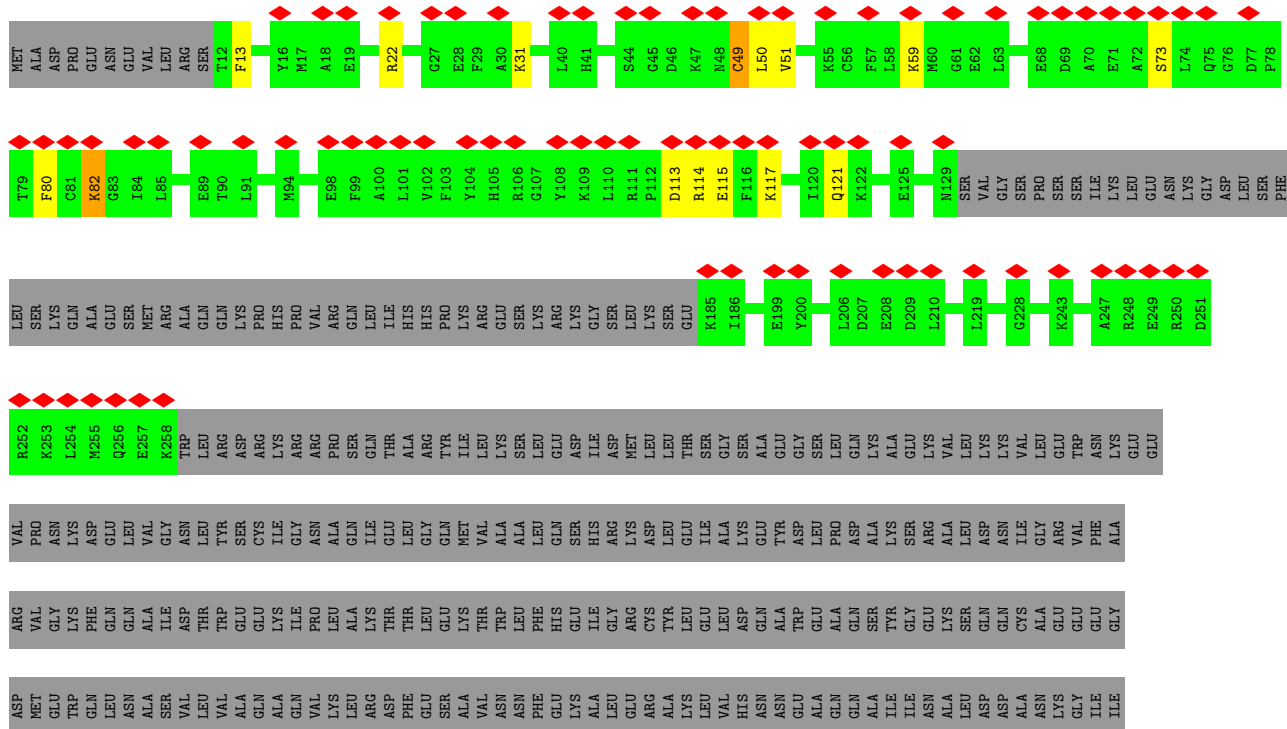


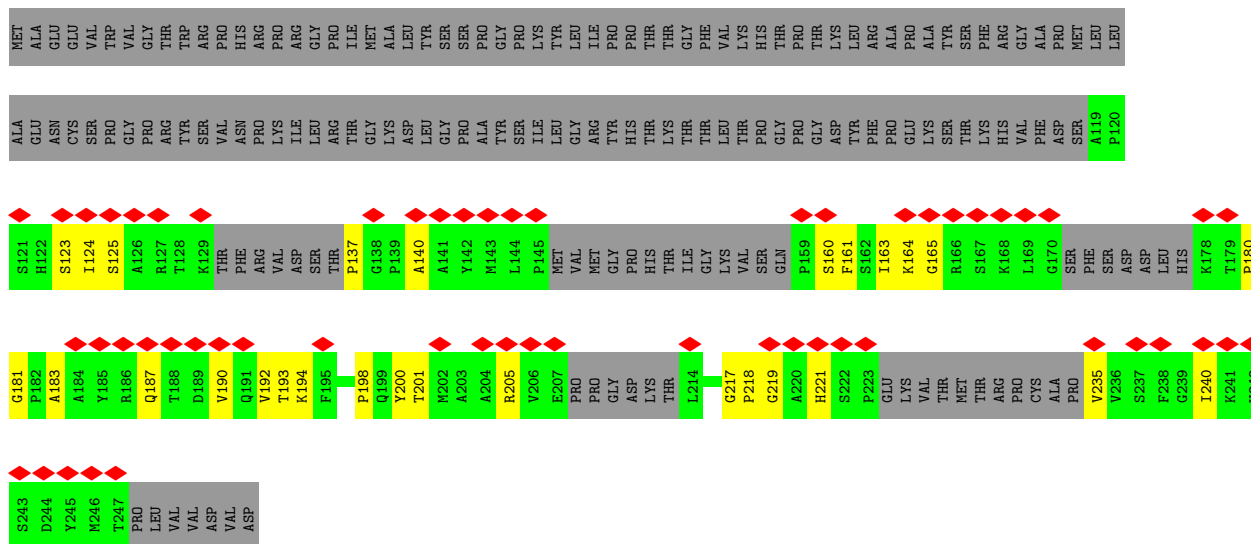
• Molecule 36: TTC25 protein



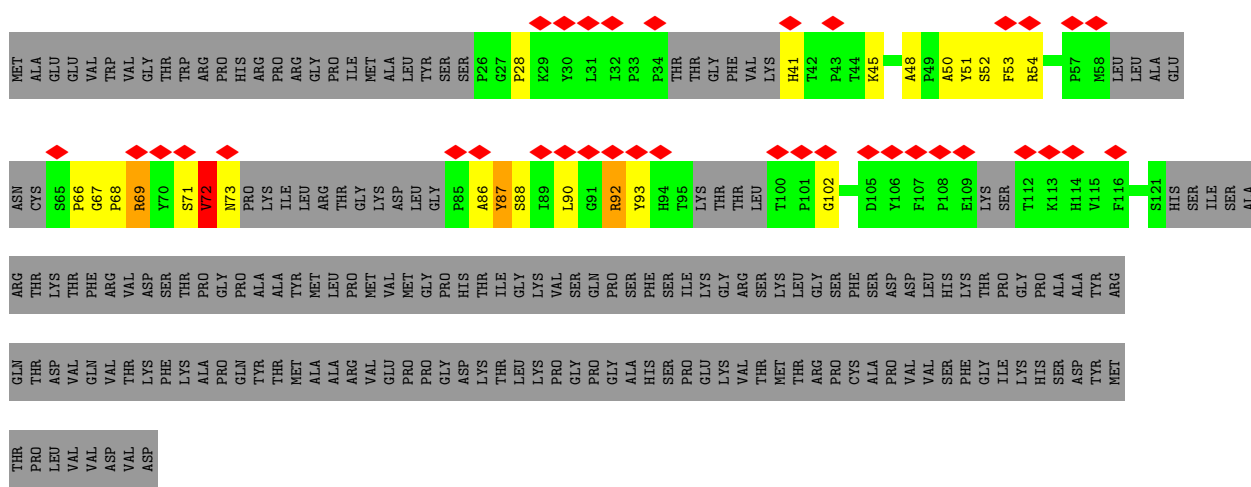


• Molecule 36: TTC25 protein

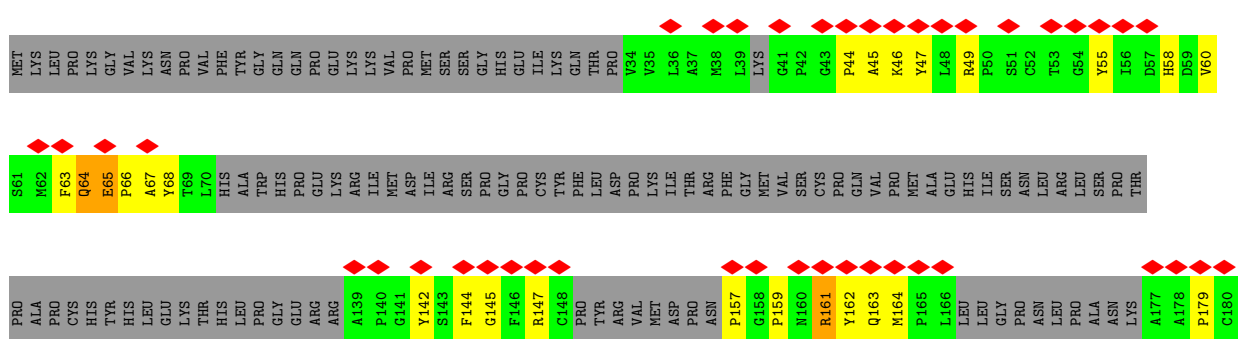


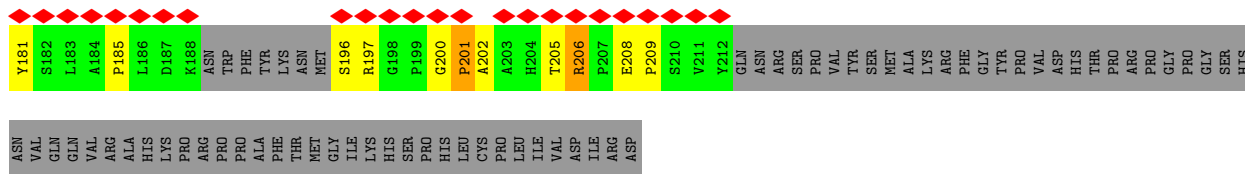


• Molecule 37: Ciliary microtubule associated protein 1A

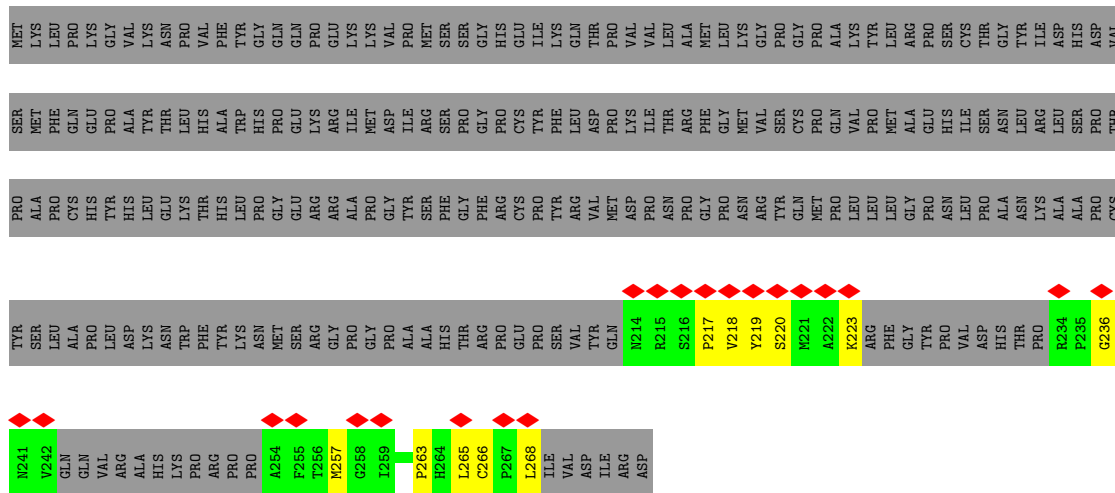


• Molecule 38: Ciliary microtubule associated protein 1C

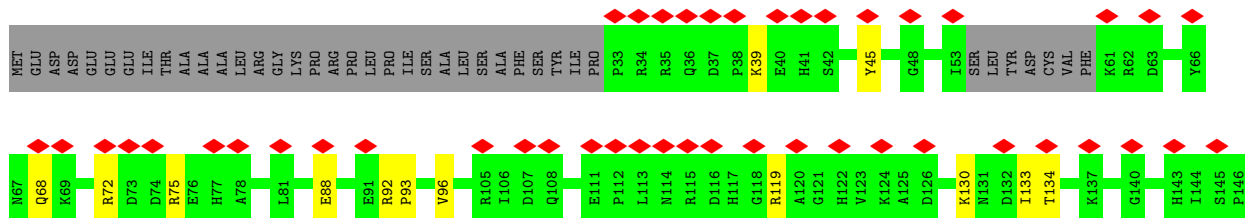




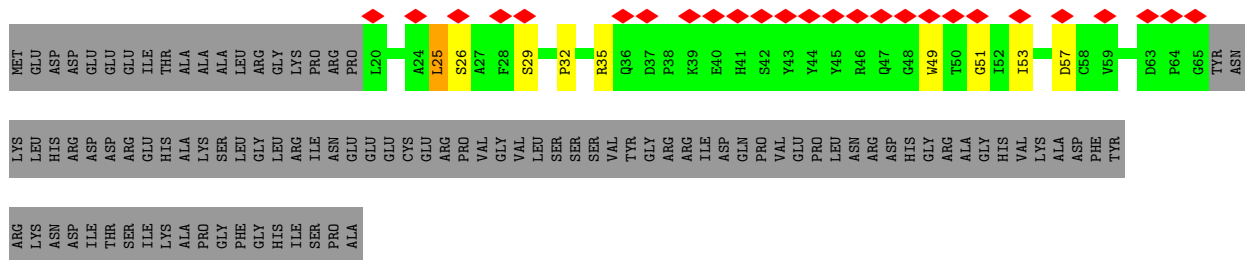
• Molecule 38: Ciliary microtubule associated protein 1C



• Molecule 39: Cilia and flagella associated protein 90

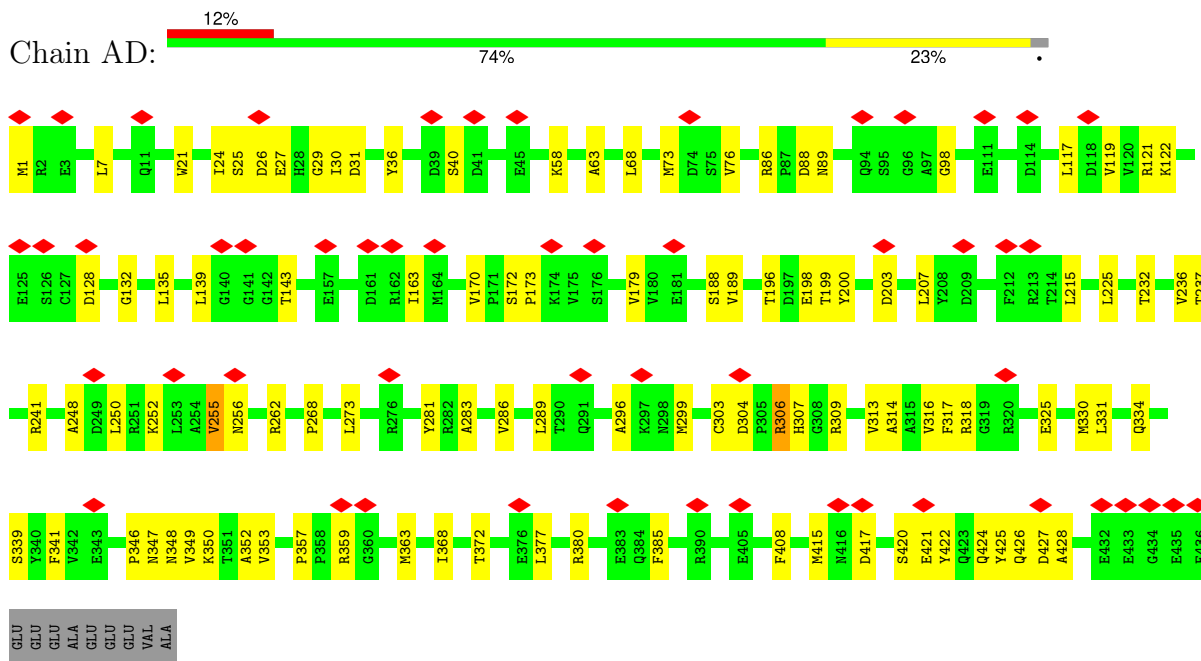


• Molecule 39: Cilia and flagella associated protein 90

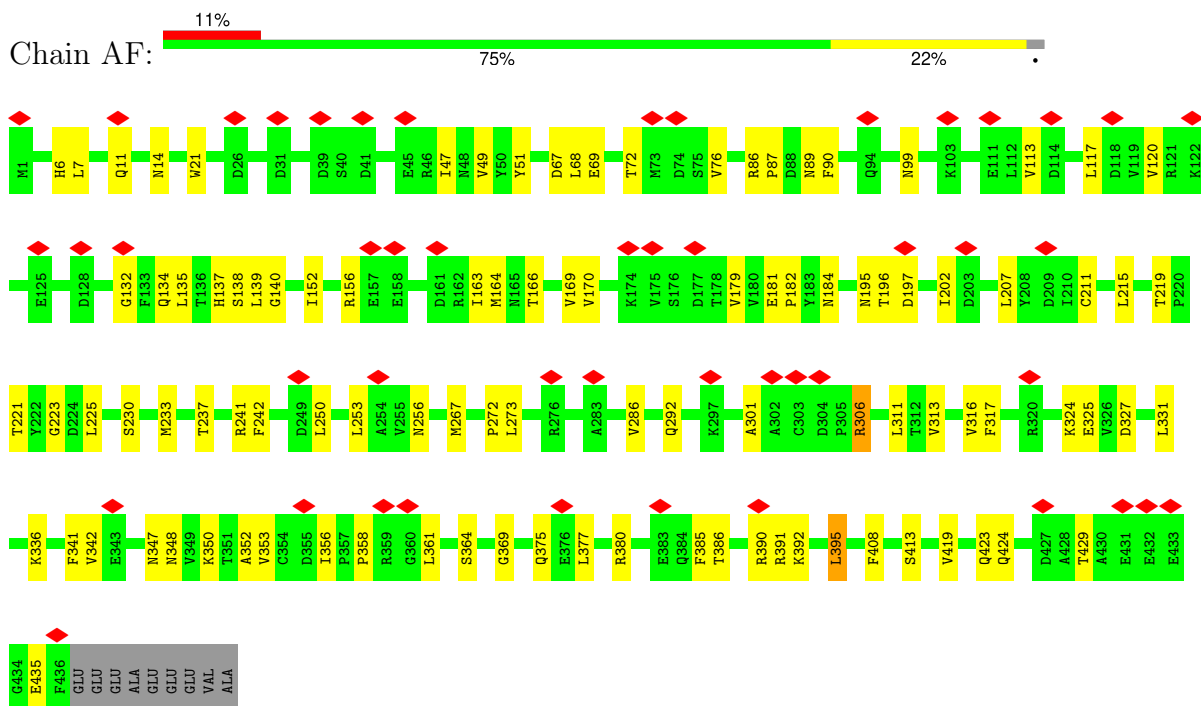


• Molecule 40: Sperm associated antigen 8

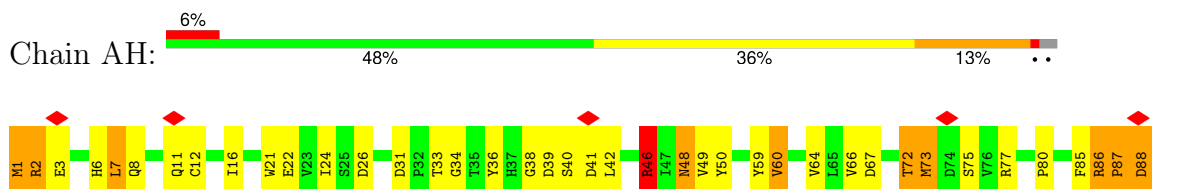
• Molecule 41: Tubulin beta-4B chain

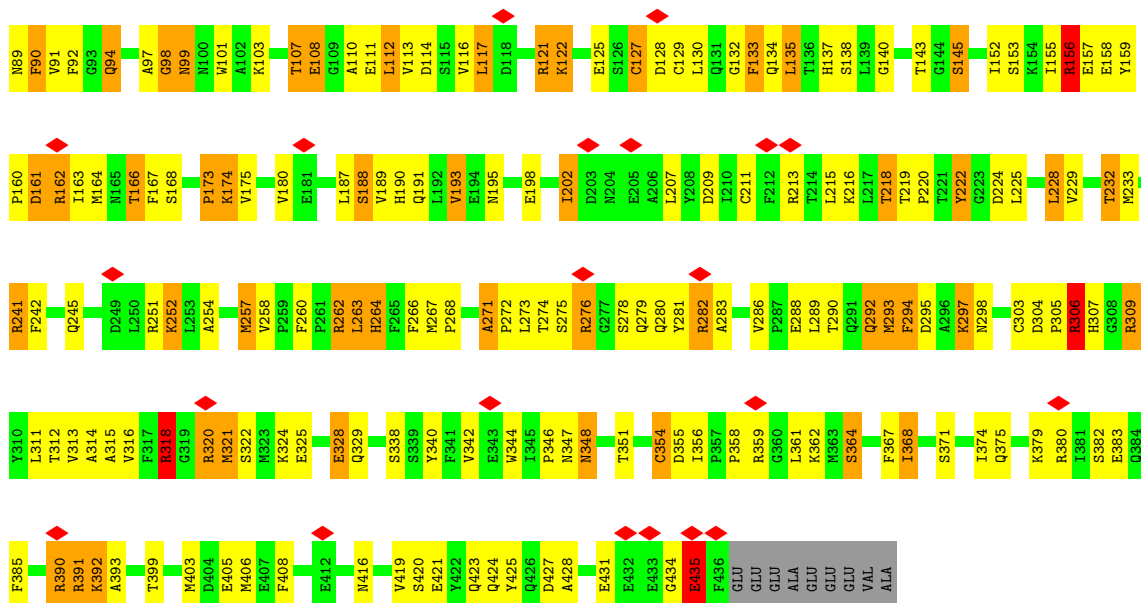


• Molecule 41: Tubulin beta-4B chain

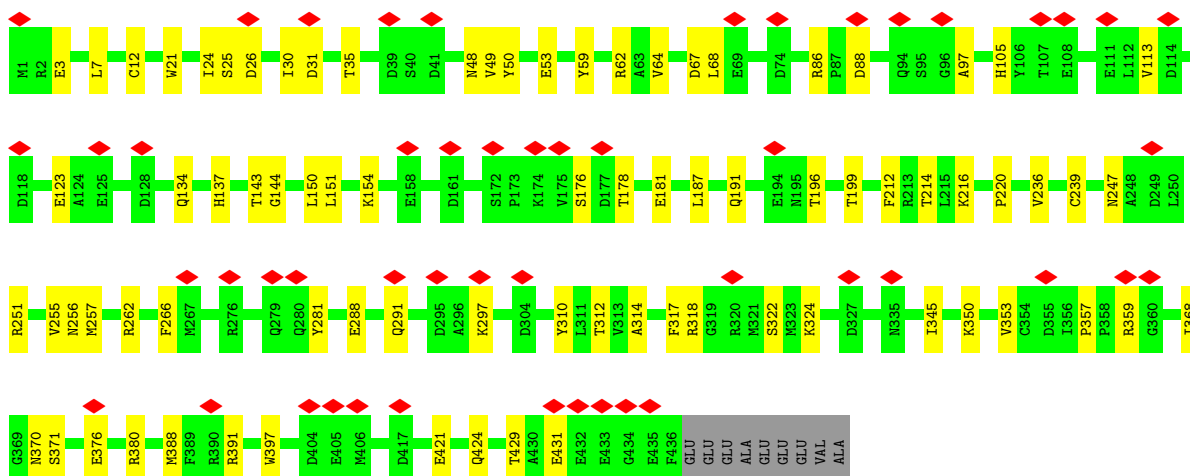
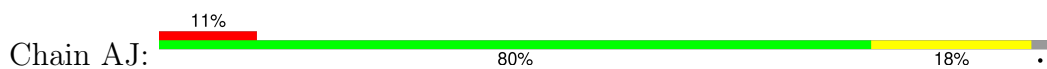


• Molecule 41: Tubulin beta-4B chain

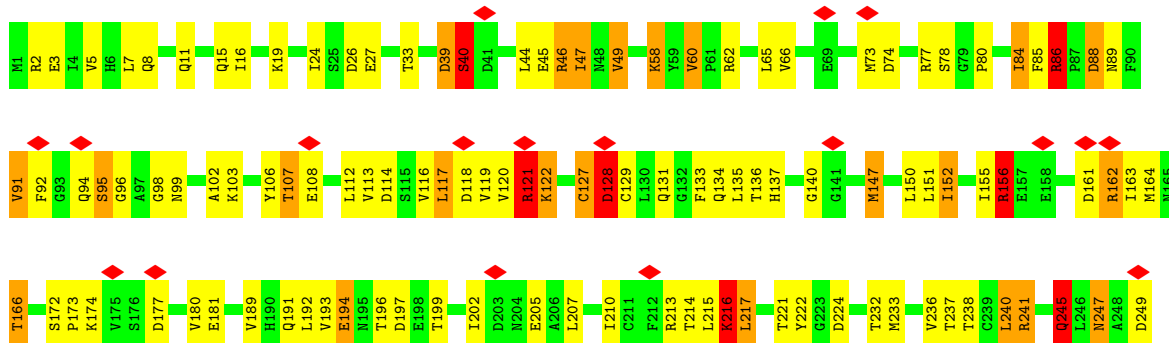


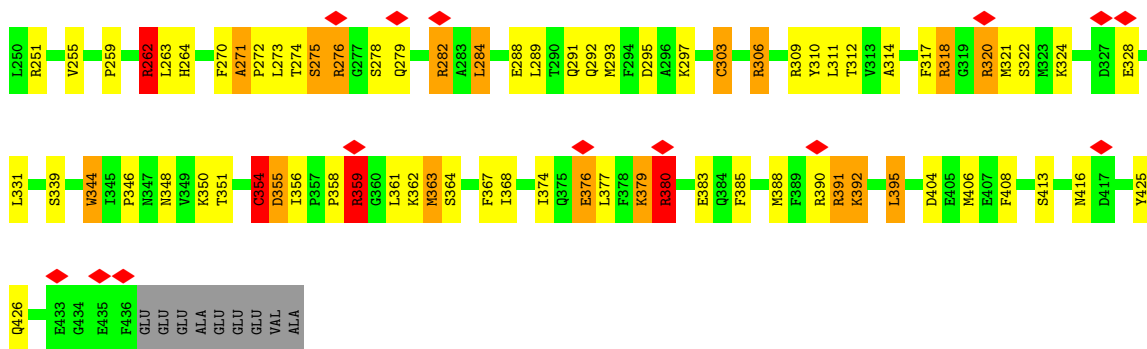


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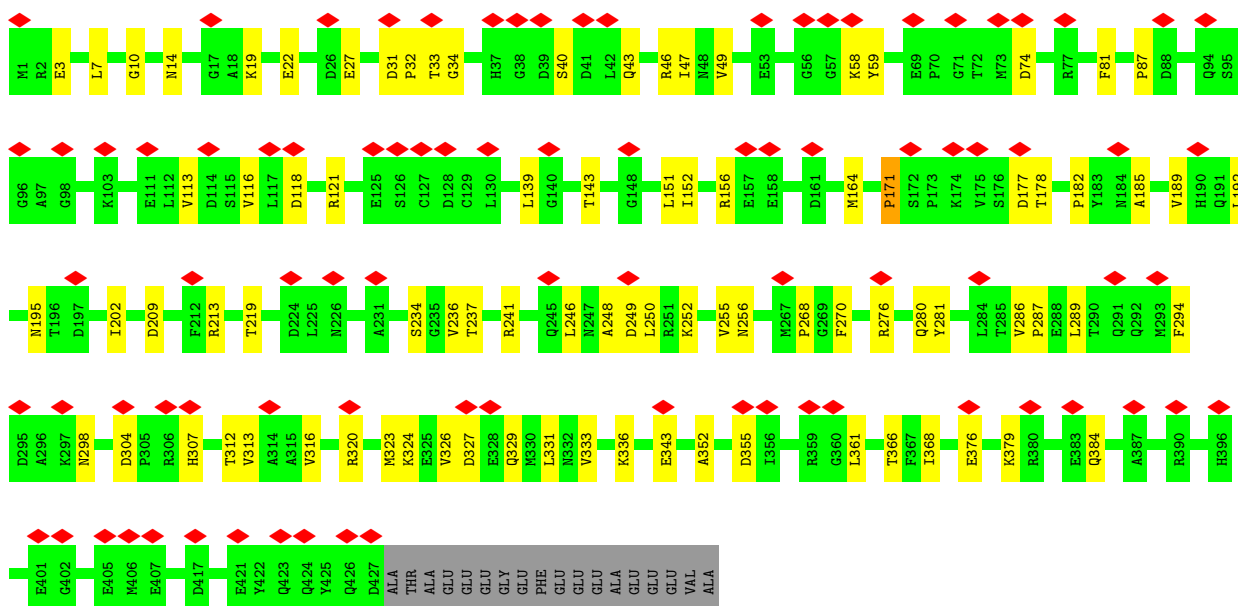
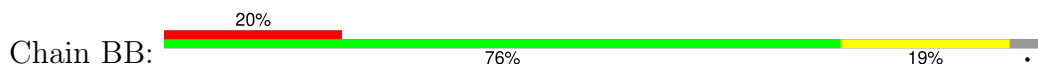


• Molecule 41: Tubulin beta-4B chain

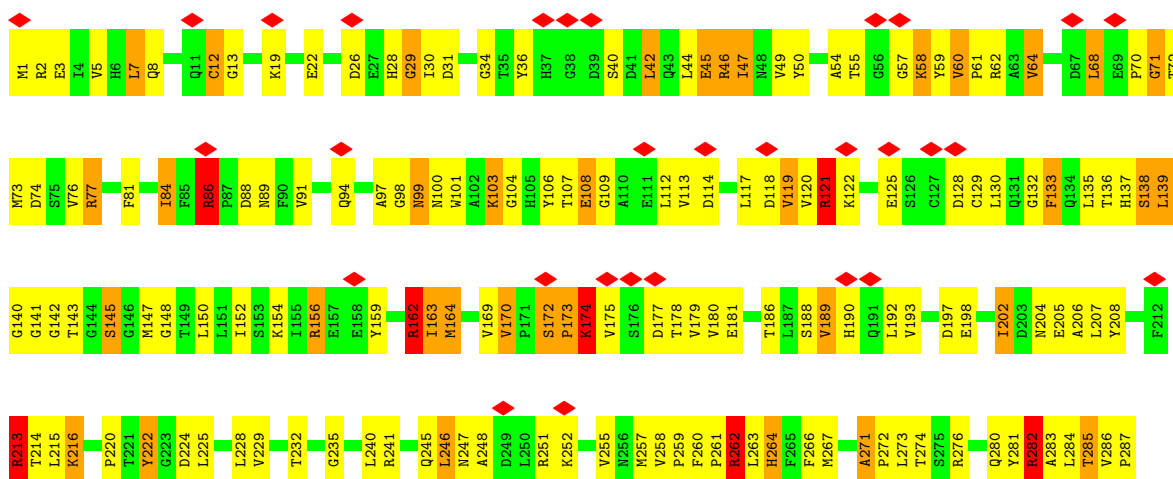
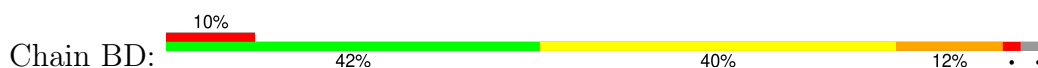


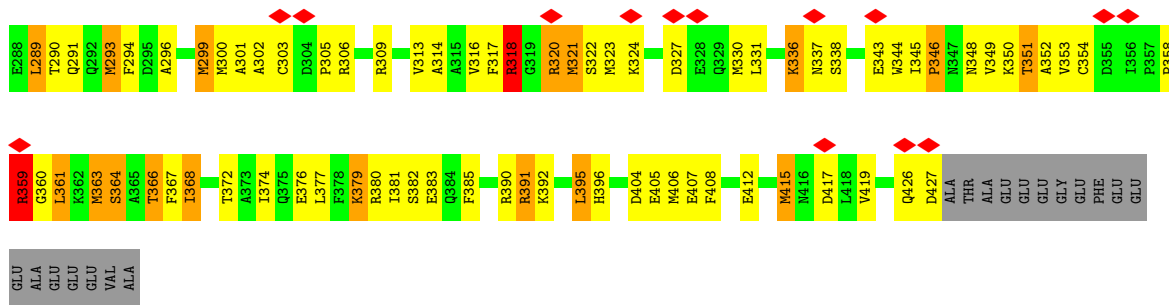


• Molecule 41: Tubulin beta-4B chain

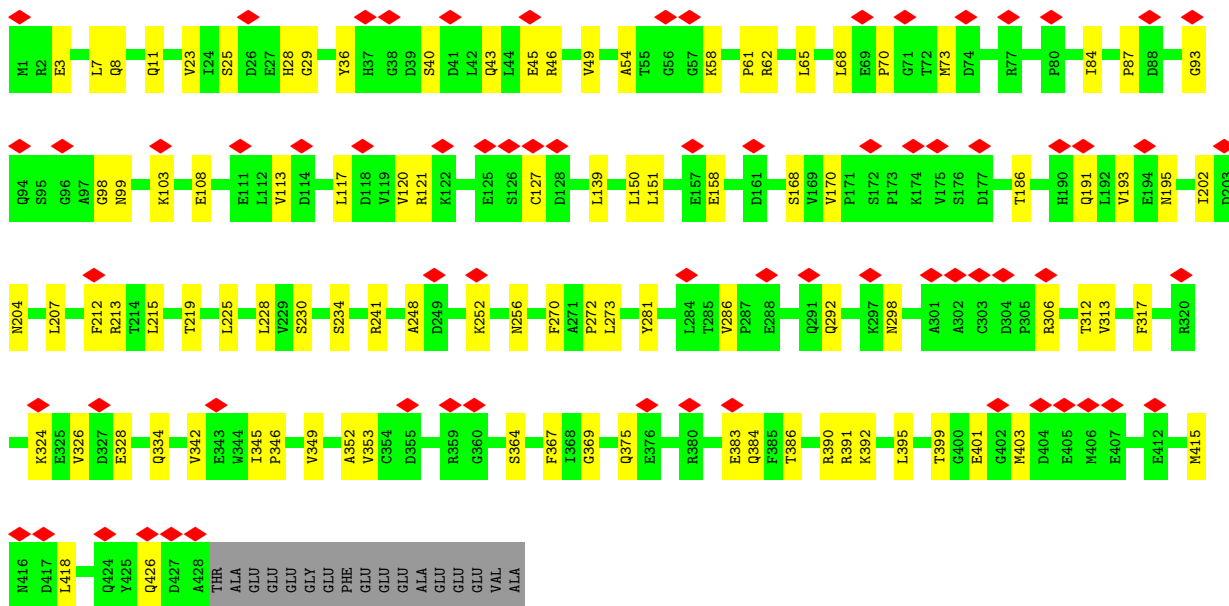
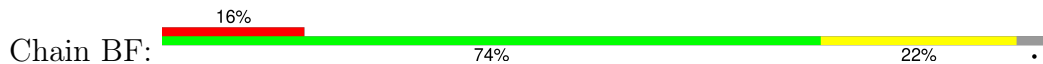


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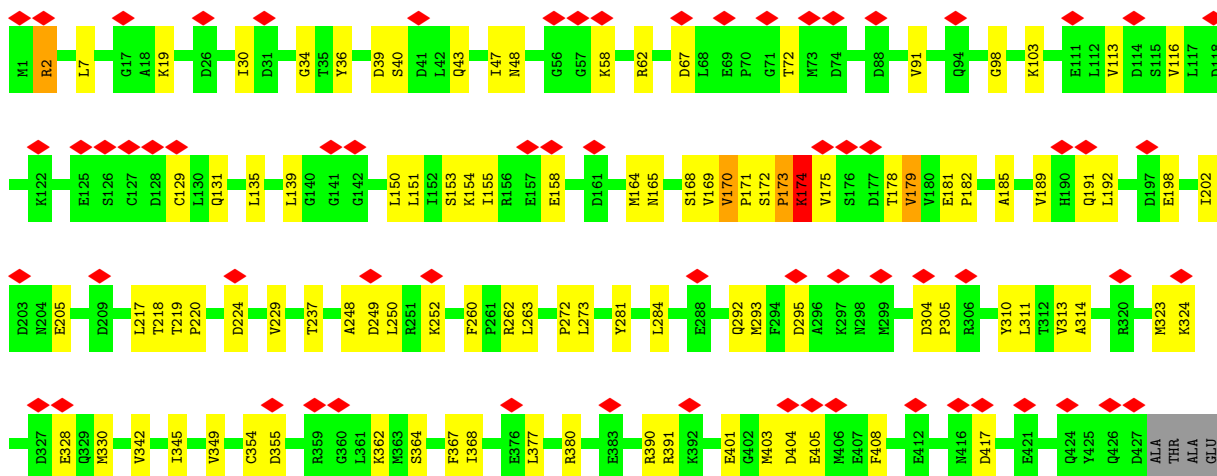
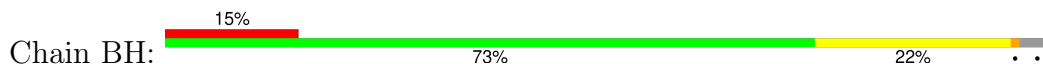




• Molecule 41: Tubulin beta-4B chain

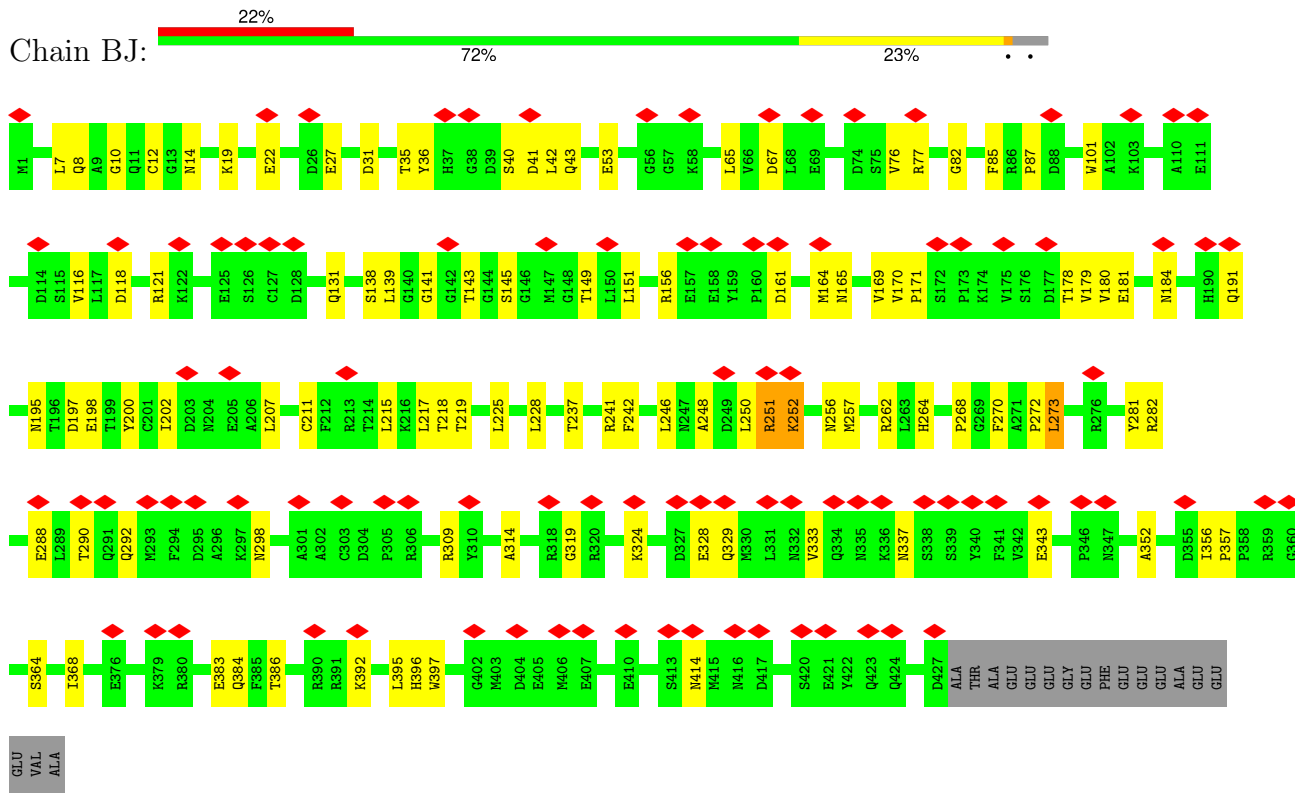


• Molecule 41: Tubulin beta-4B chain

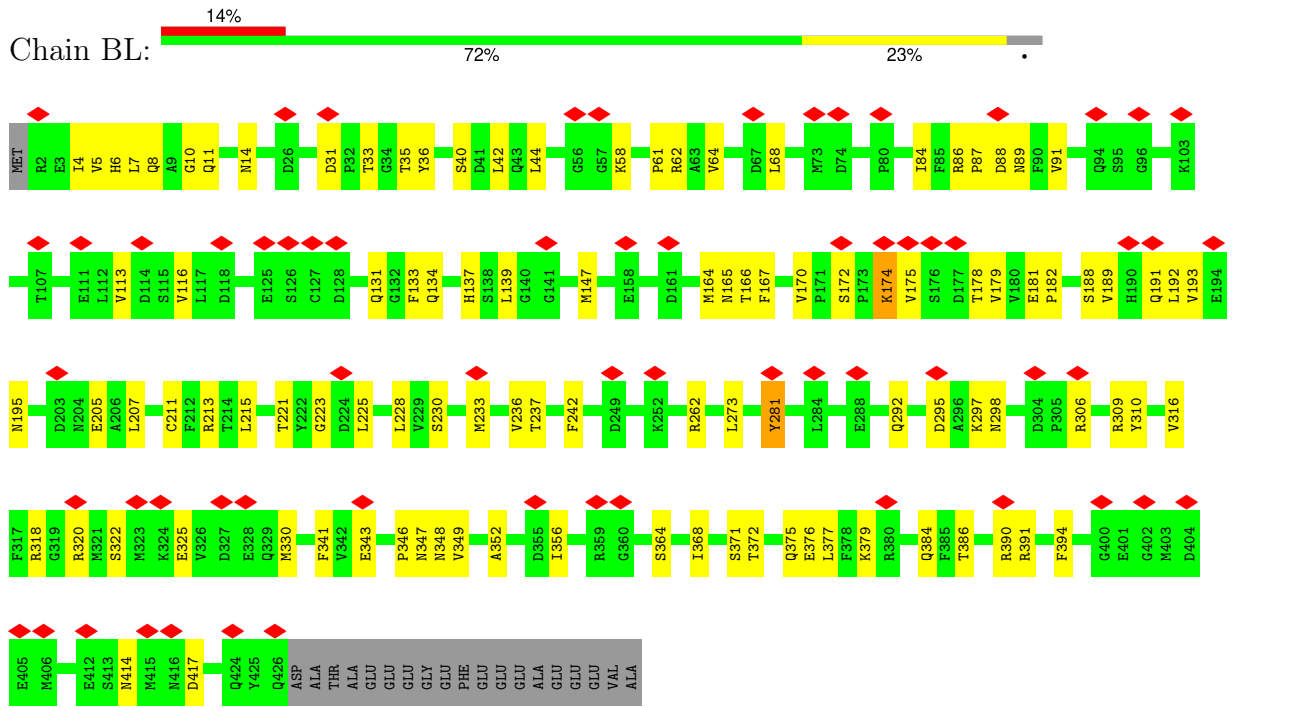


GLU
GLU
GLY
GLY
PHE
GLU
GLU
GLU
GLU
GLU
VAL
ALA

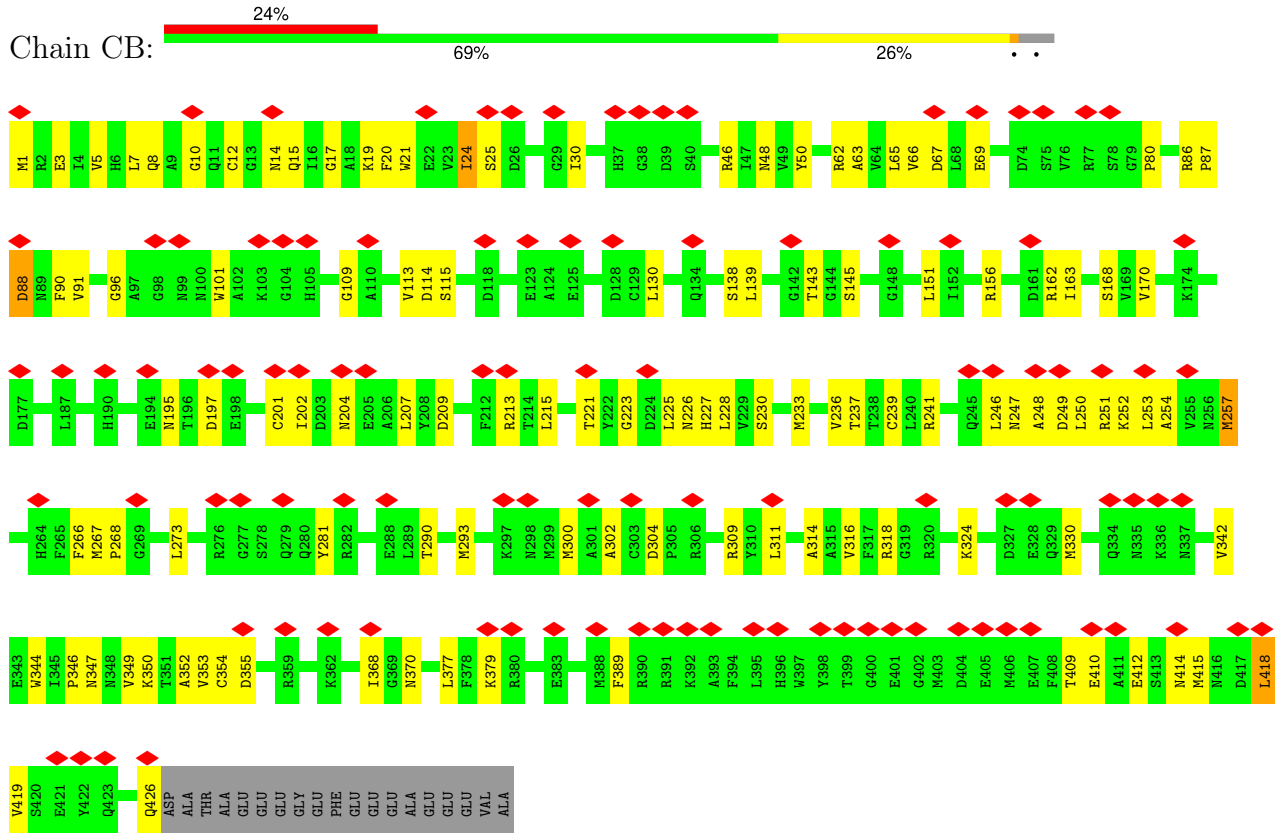
• Molecule 41: Tubulin beta-4B chain



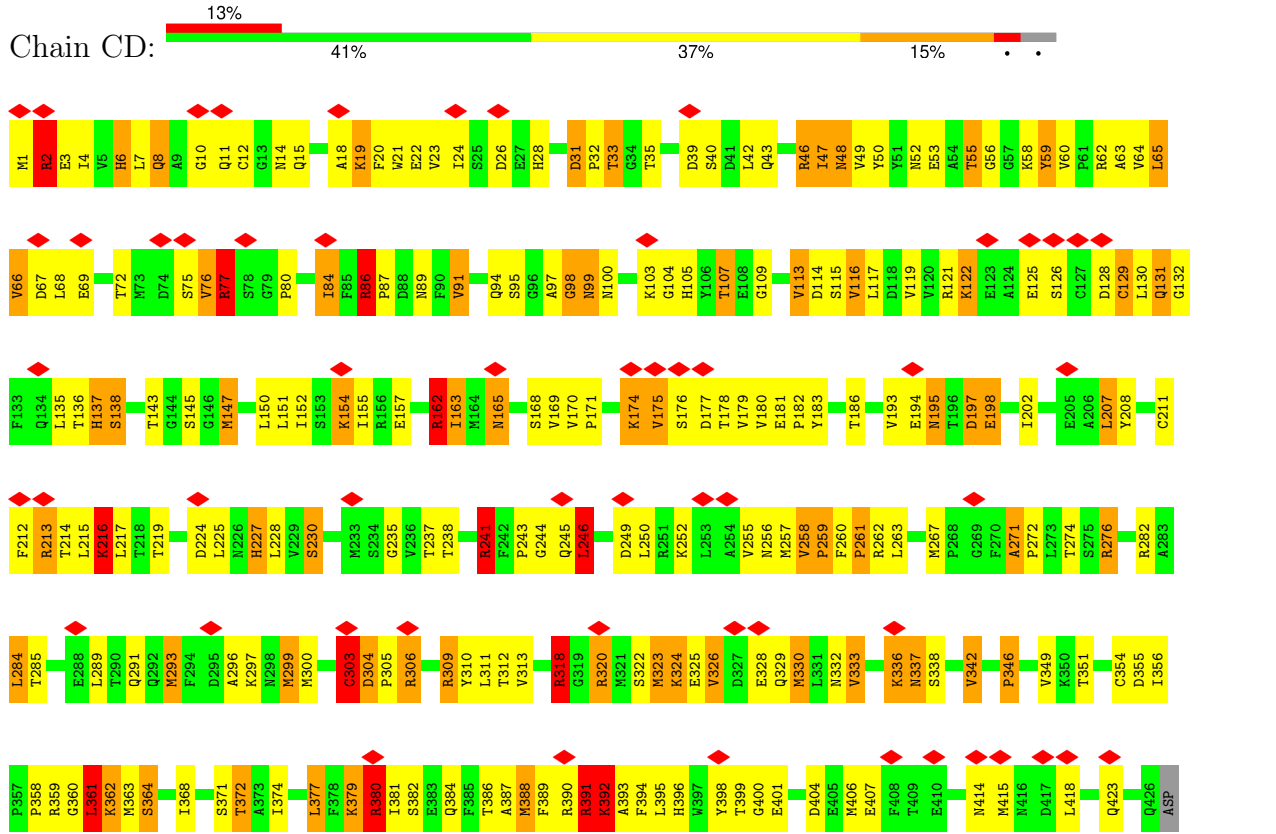
• Molecule 41: Tubulin beta-4B chain



• Molecule 41: Tubulin beta-4B chain

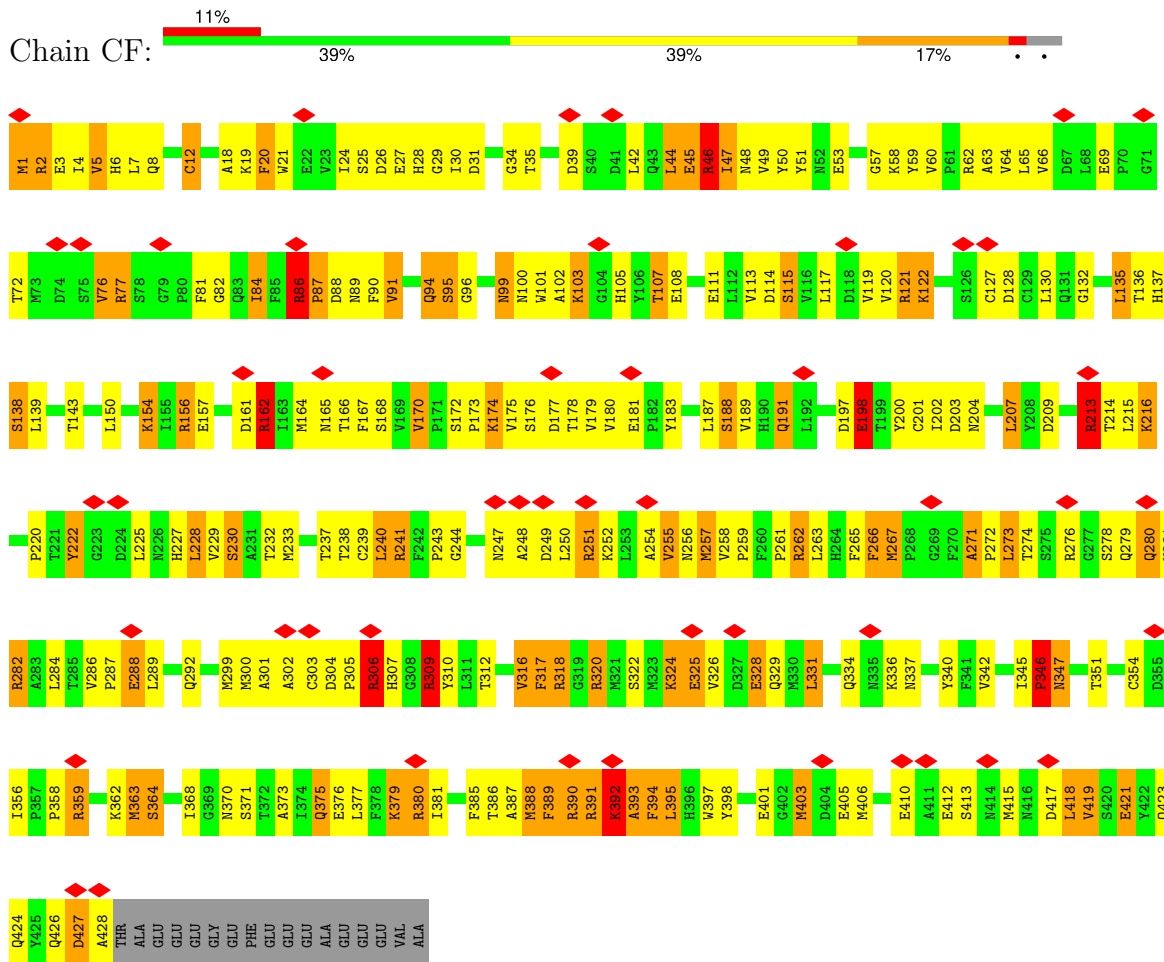


• Molecule 41: Tubulin beta-4B chain

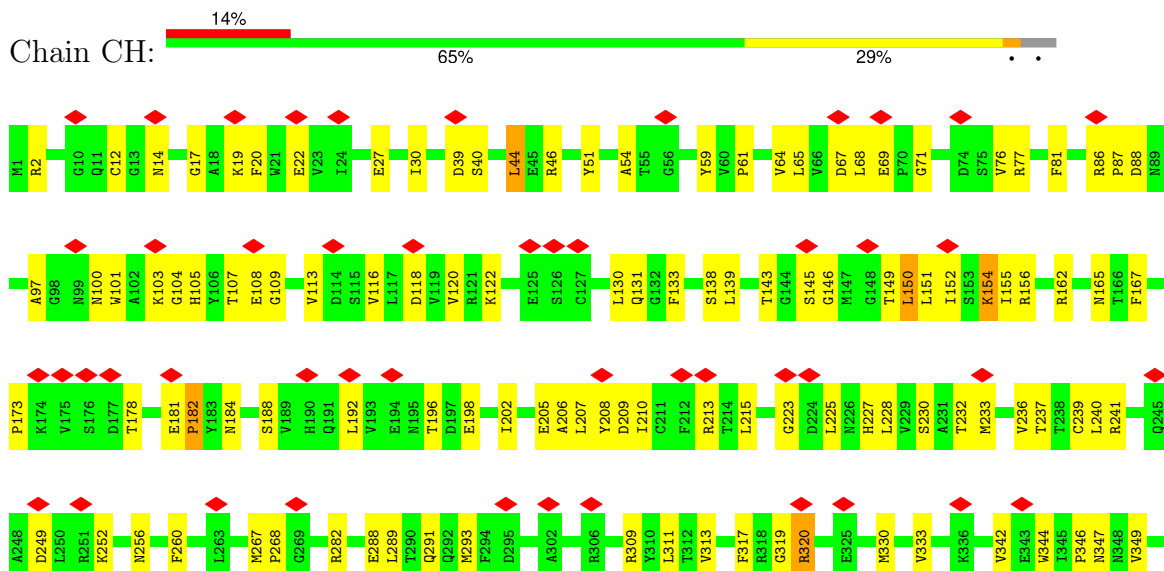


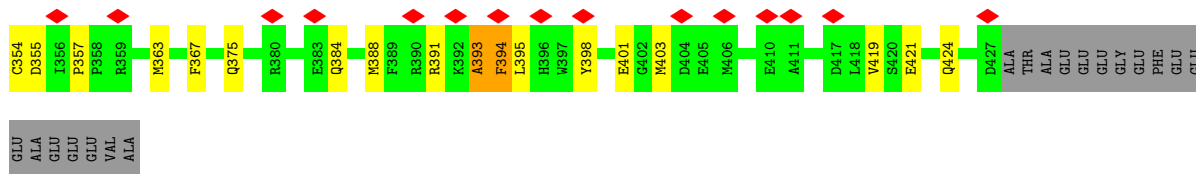
ALA
THR
ALA
GLU
GLU
GLU
GLU
GLY
GLY
PHE
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GLU
GLU
ALA
GLU
GLU
VAL
ALA

• Molecule 41: Tubulin beta-4B chain

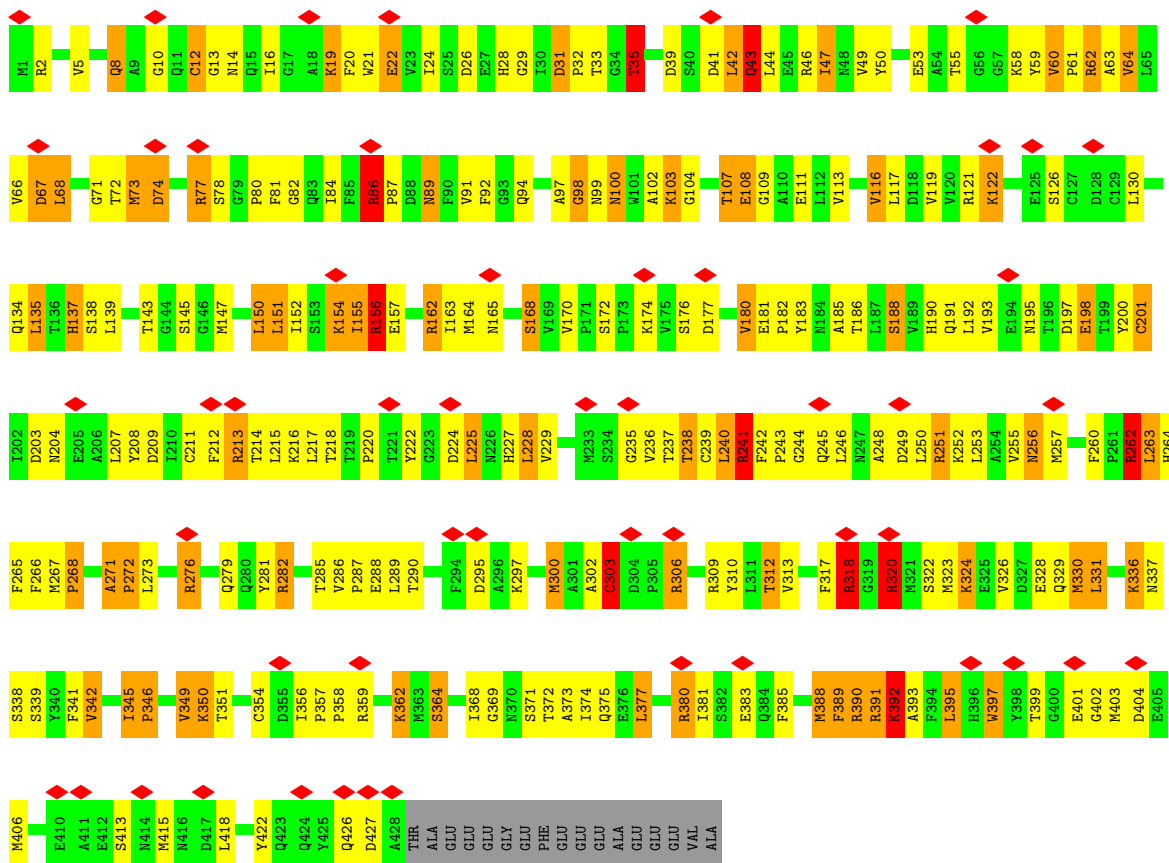


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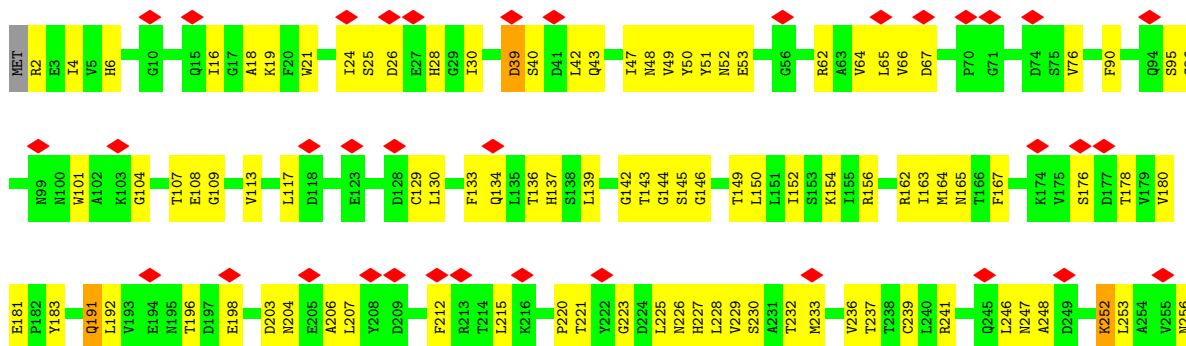


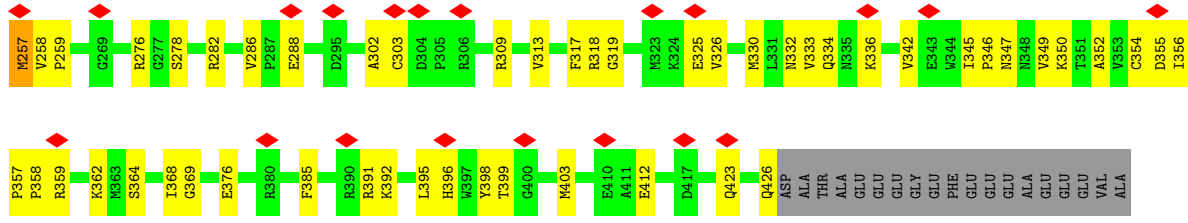


• Molecule 41: Tubulin beta-4B chain

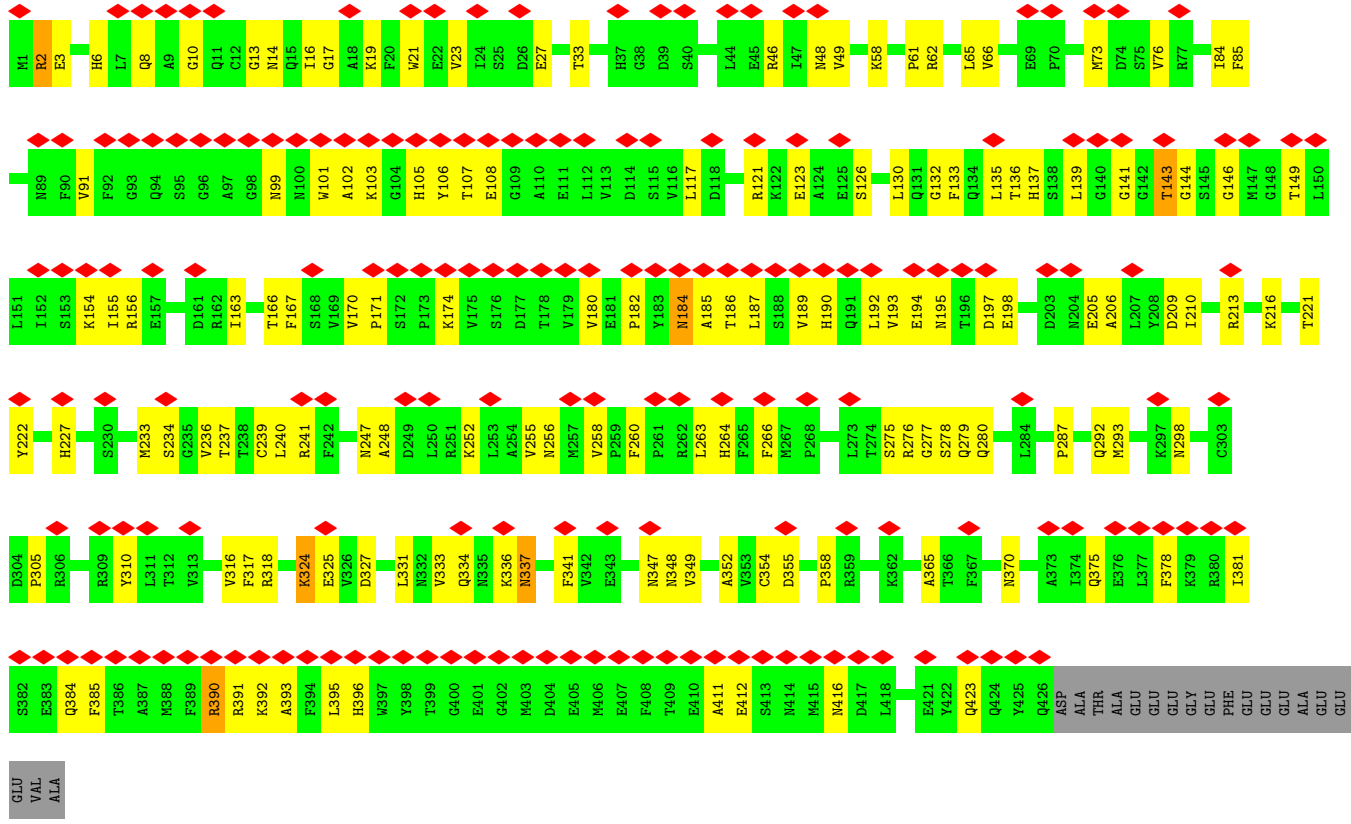
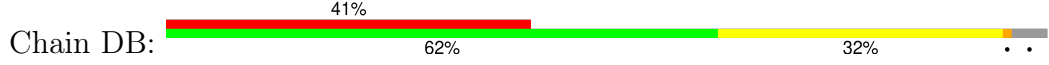


• Molecule 41: Tubulin beta-4B chain

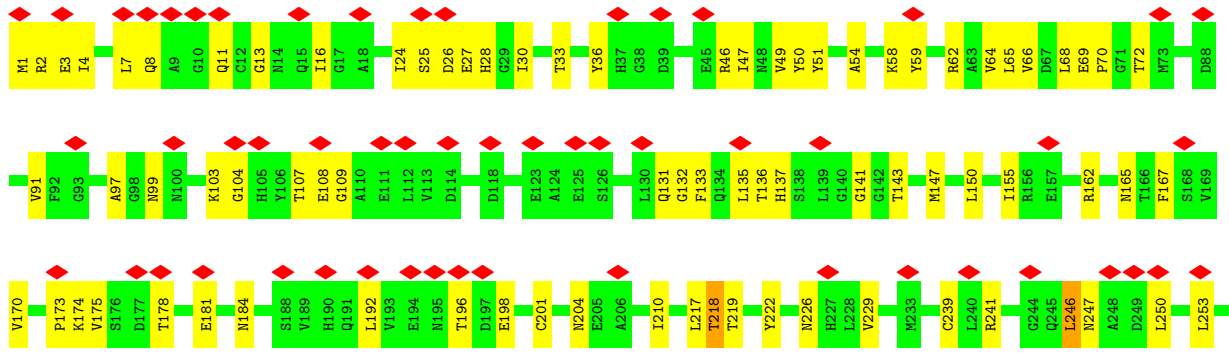


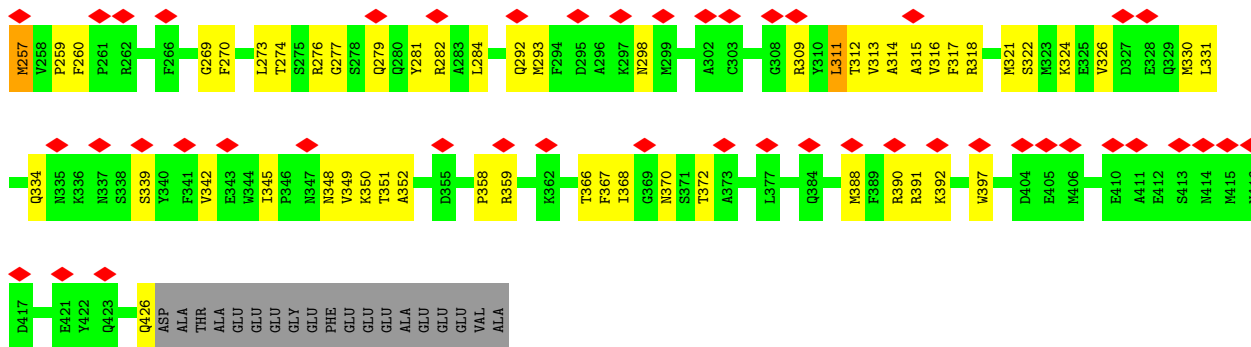


• Molecule 41: Tubulin beta-4B chain

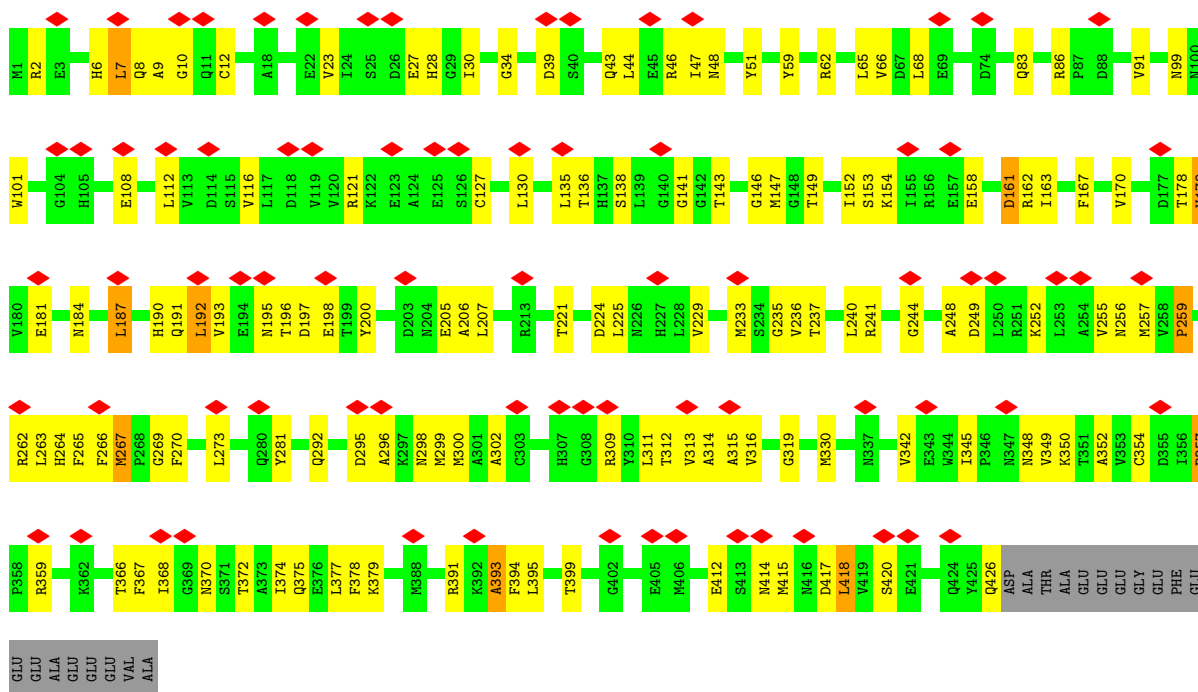


• Molecule 41: Tubulin beta-4B chain

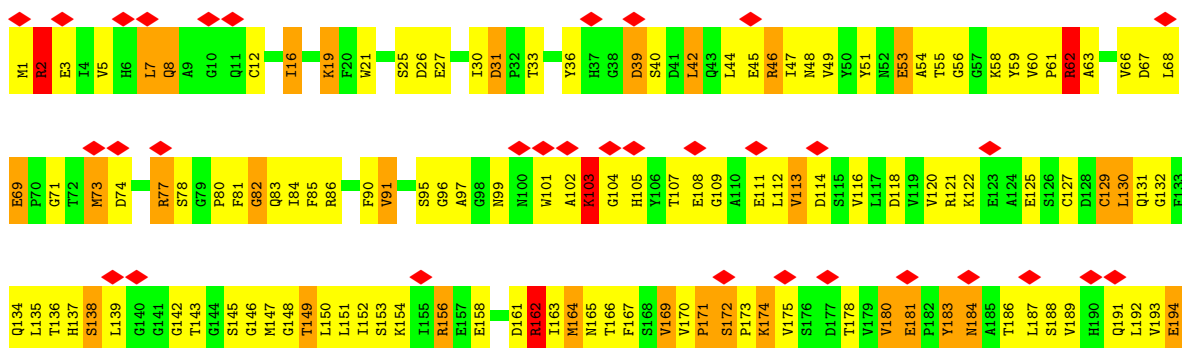


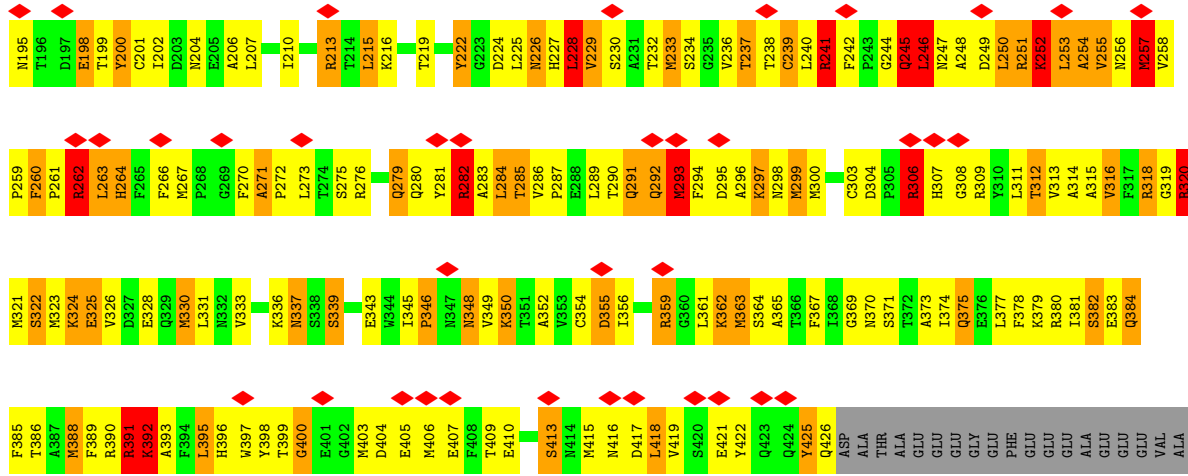


• Molecule 41: Tubulin beta-4B chain

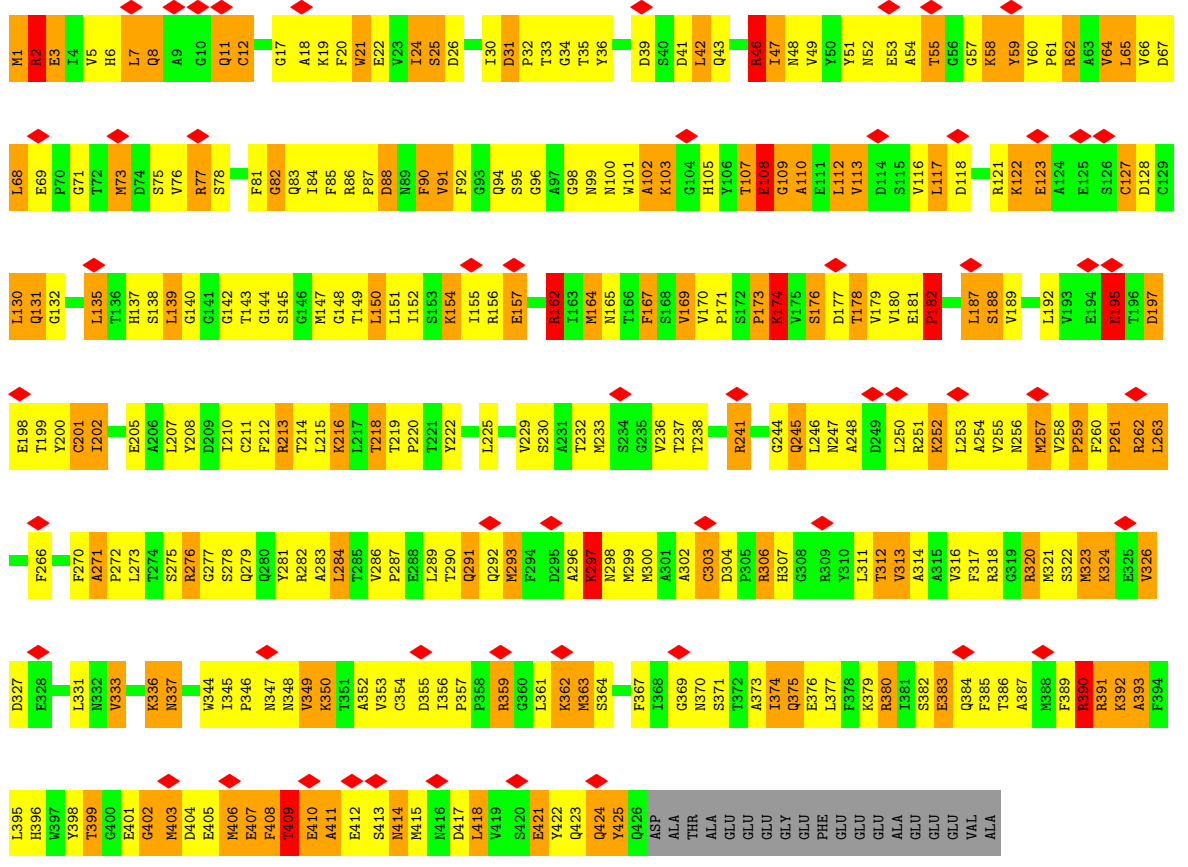


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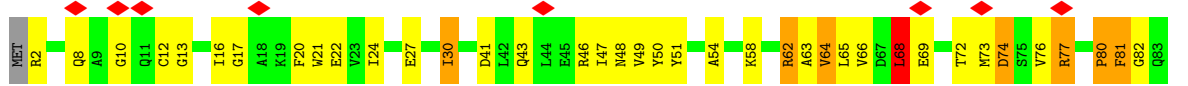


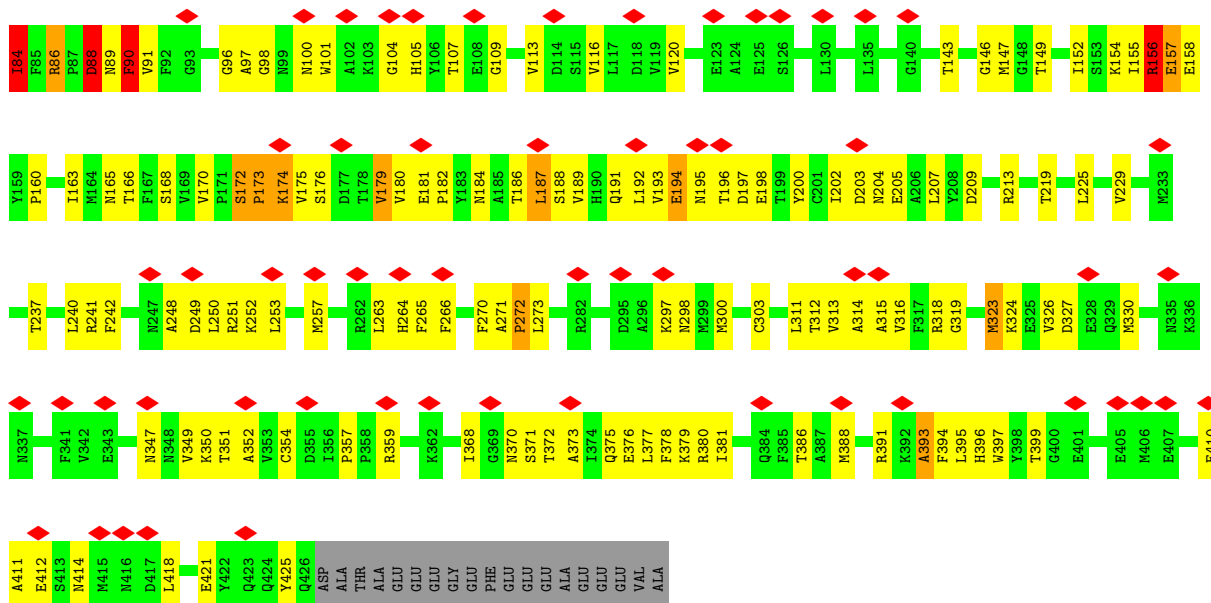


• Molecule 41: Tubulin beta-4B chain

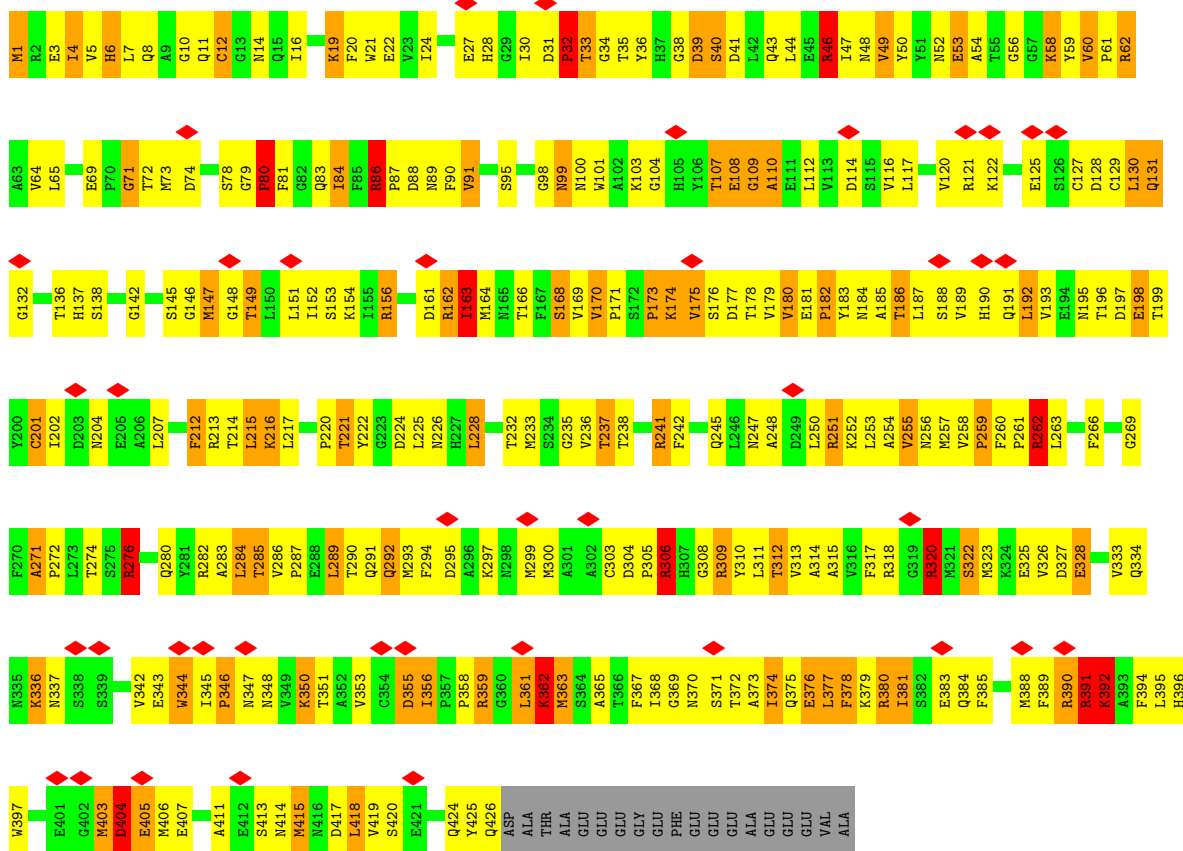


• Molecule 41: Tubulin beta-4B chain



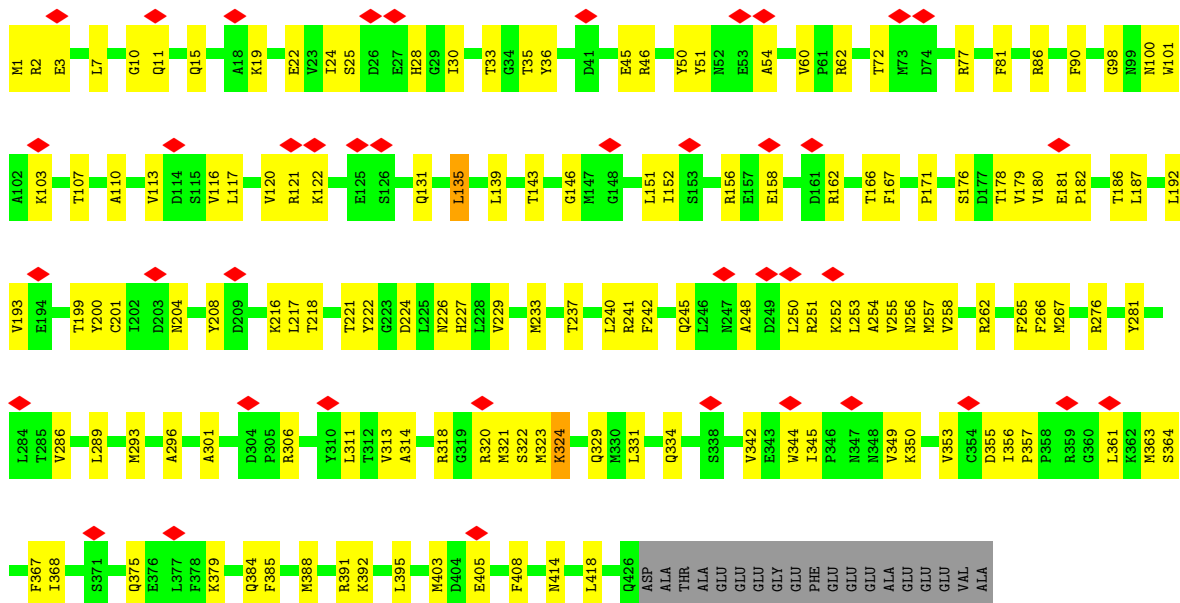


• Molecule 41: Tubulin beta-4B chain

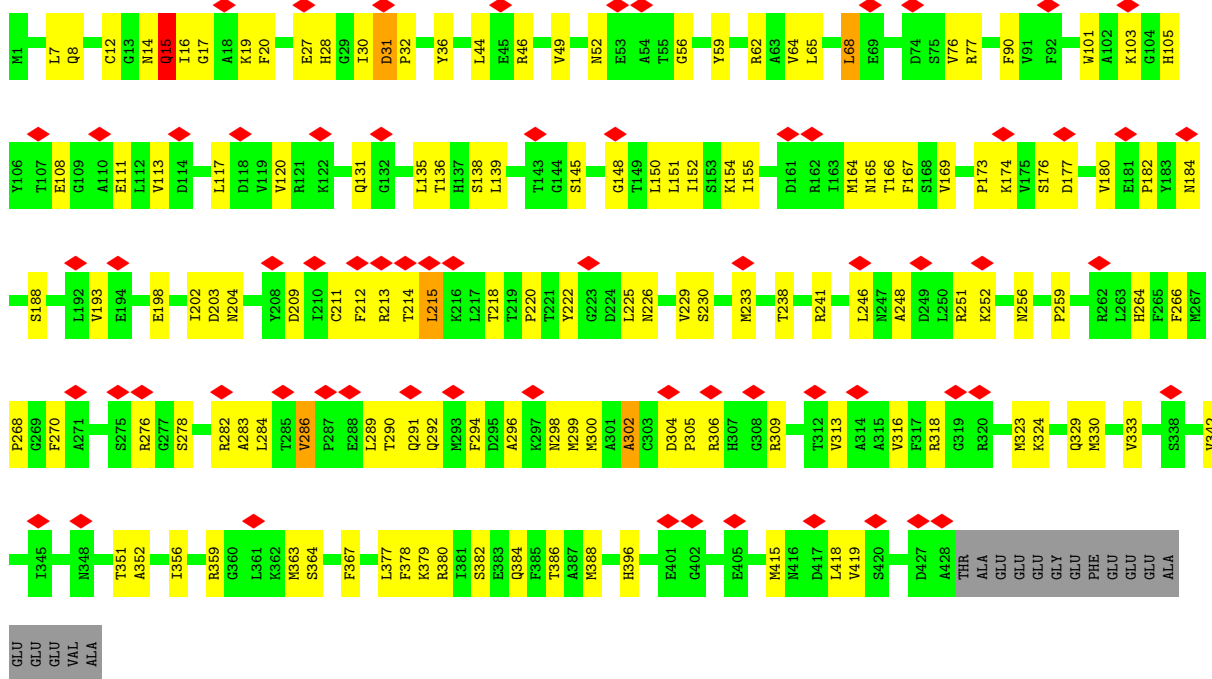


• Molecule 41: Tubulin beta-4B chain

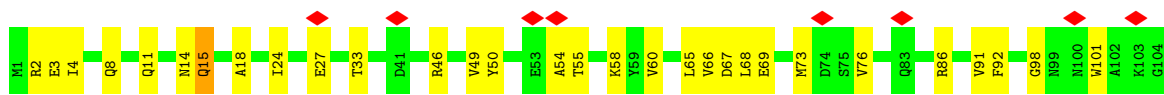


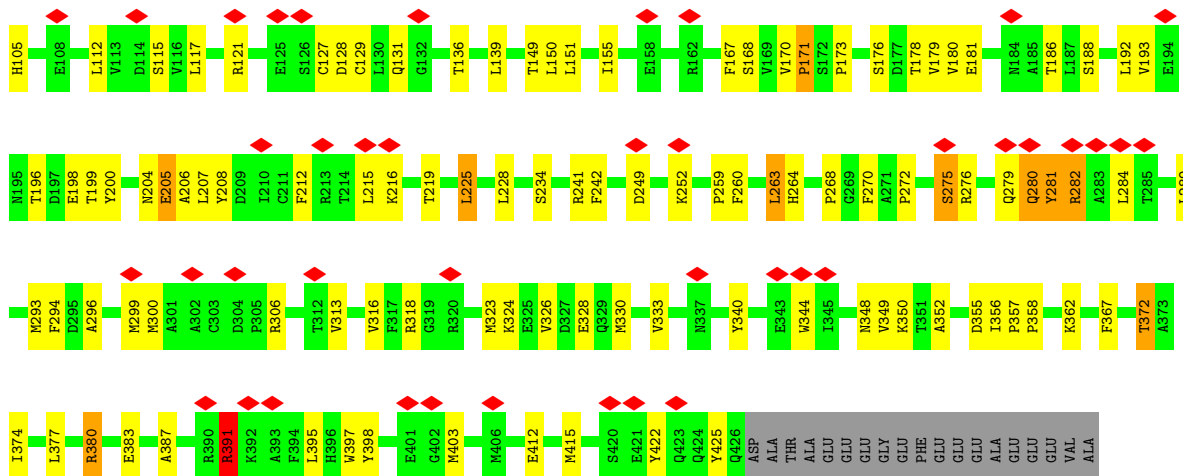


• Molecule 41: Tubulin beta-4B chain

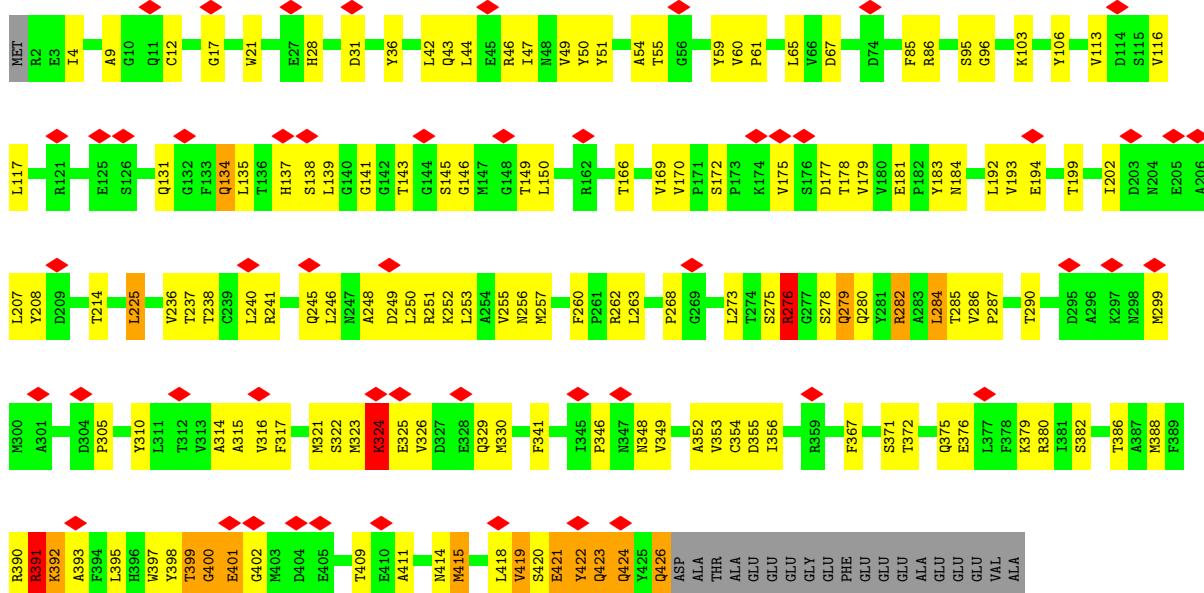


• Molecule 41: Tubulin beta-4B chain

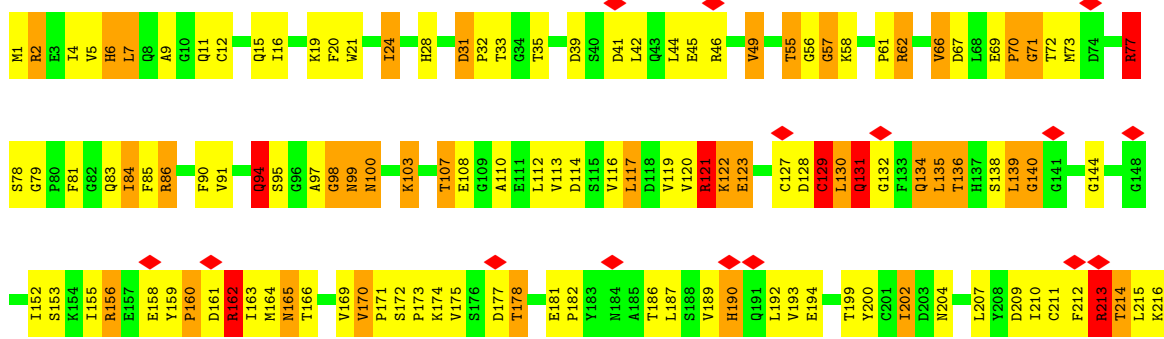


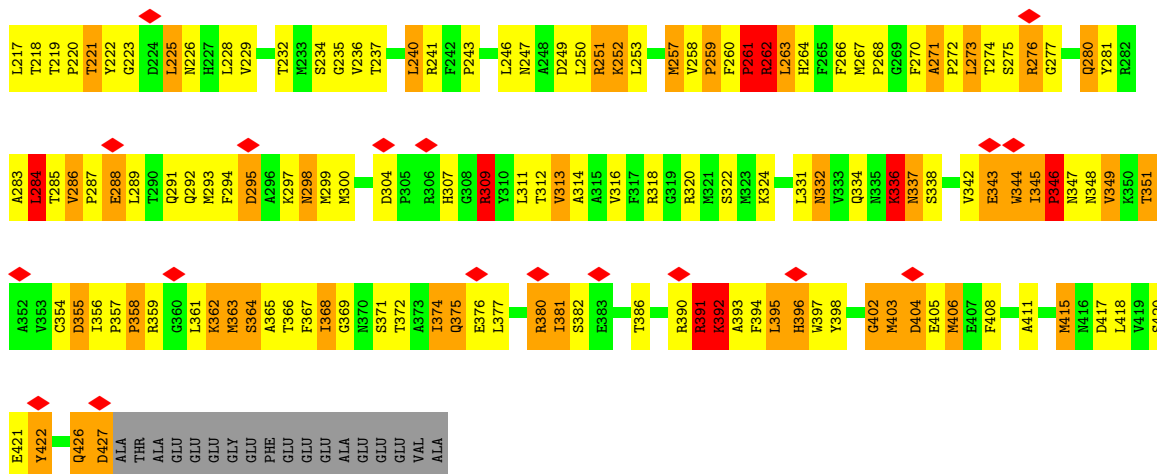


• Molecule 41: Tubulin beta-4B chain

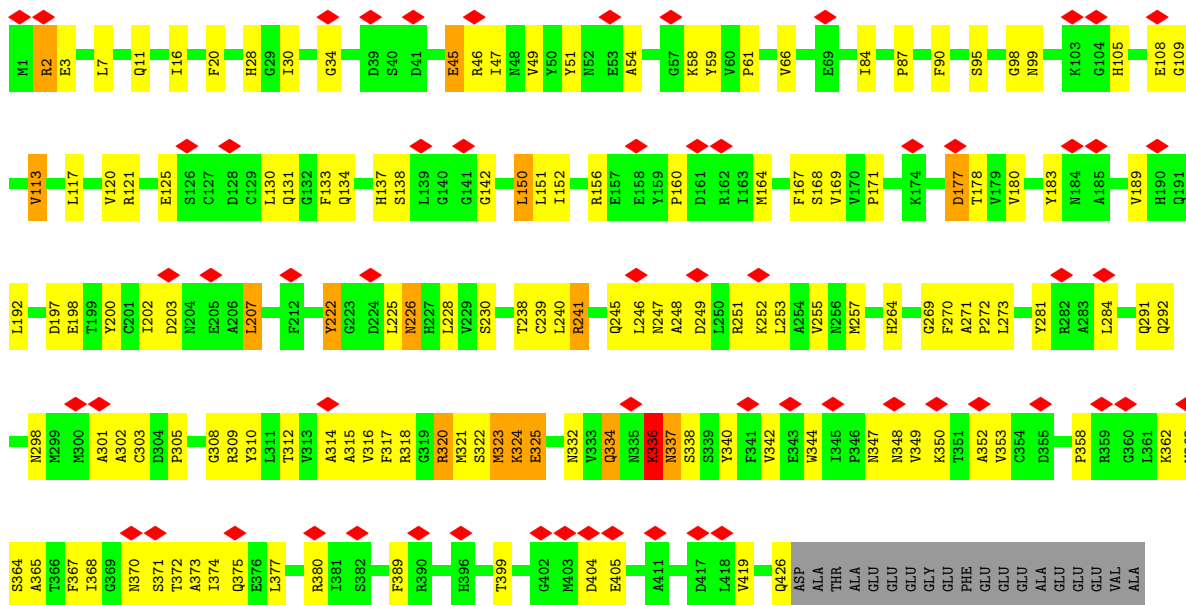


• Molecule 41: Tubulin beta-4B chain

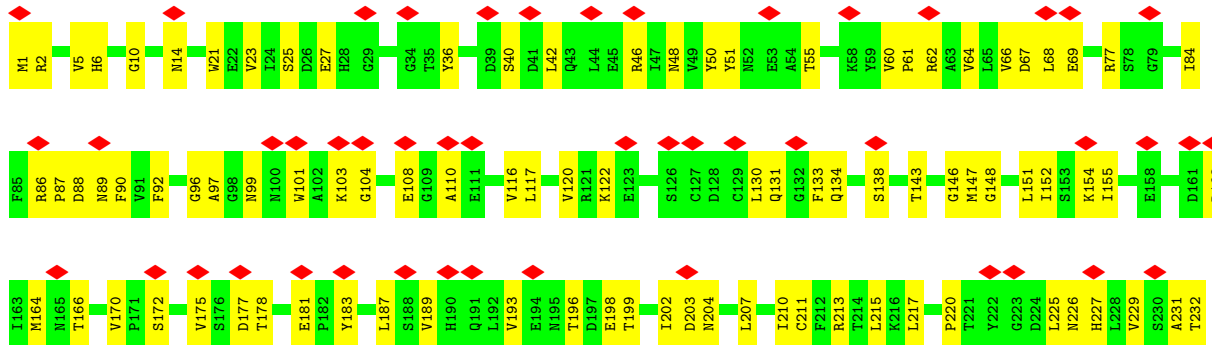


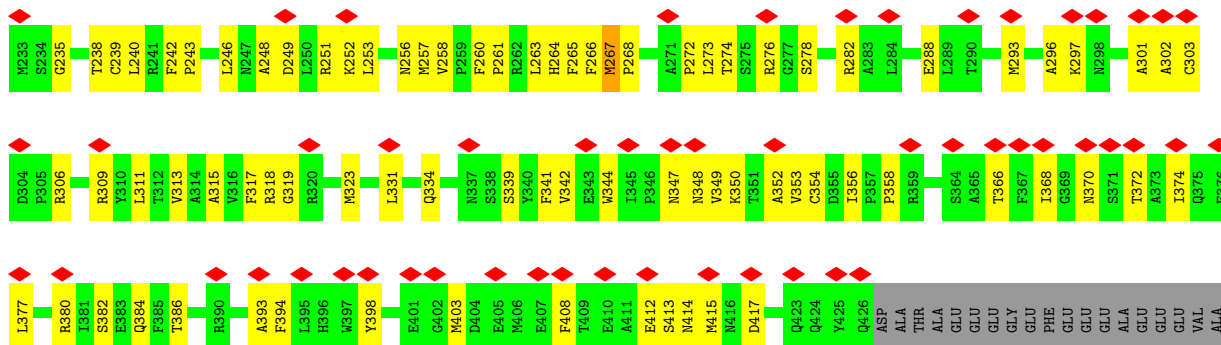


• Molecule 41: Tubulin beta-4B chain

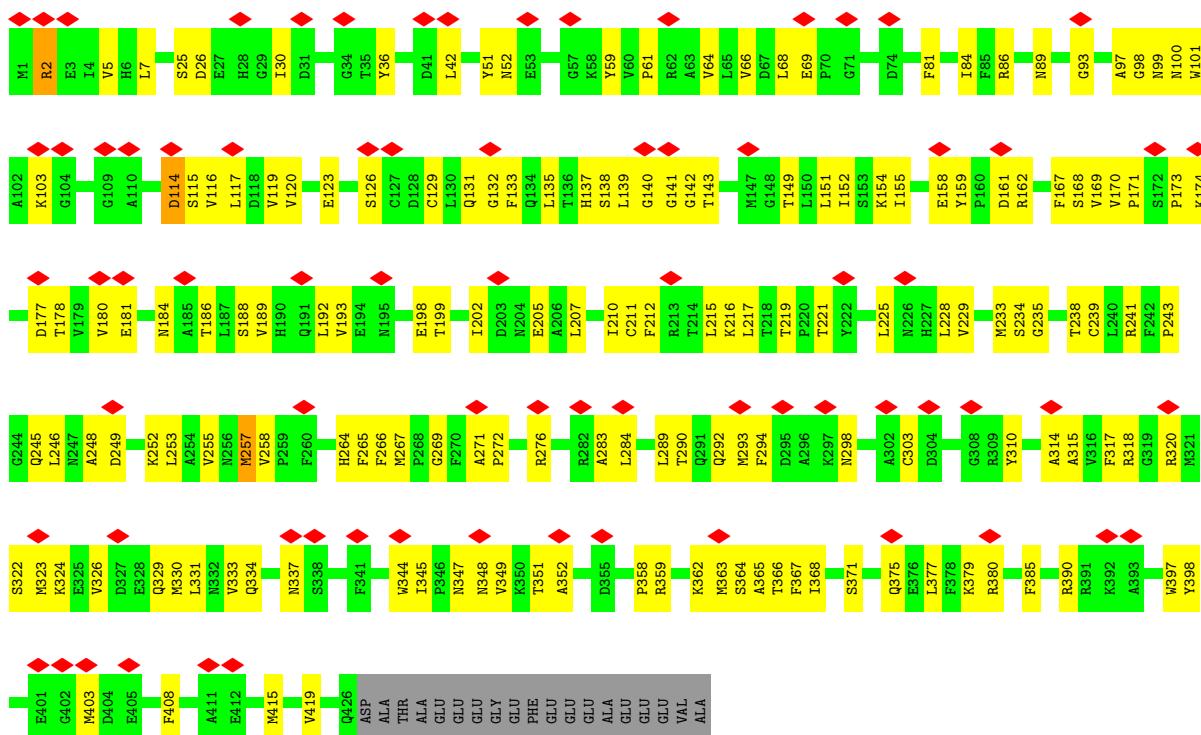


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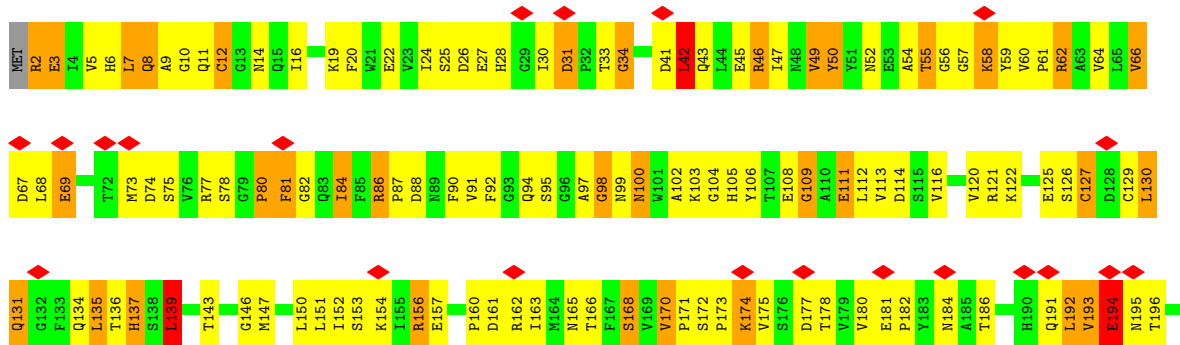


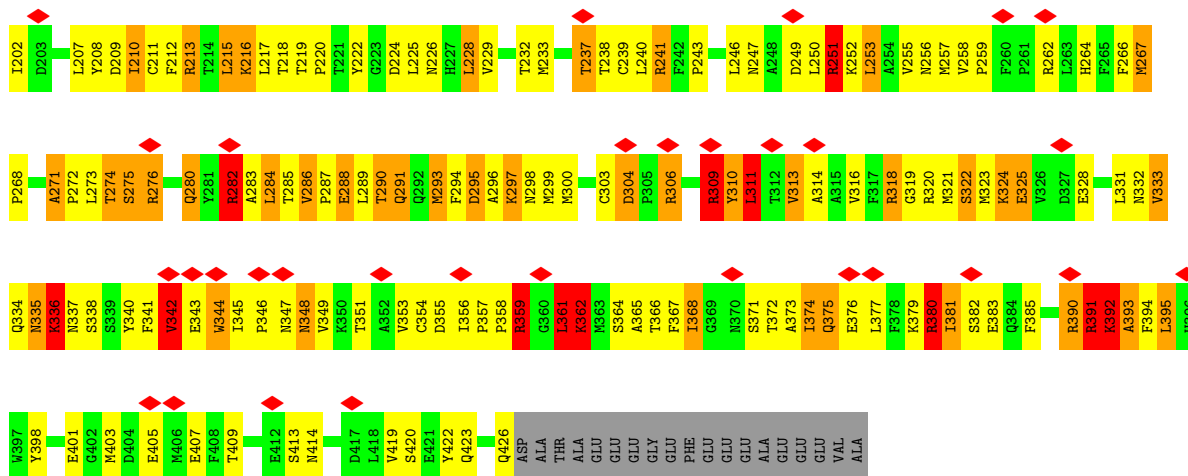


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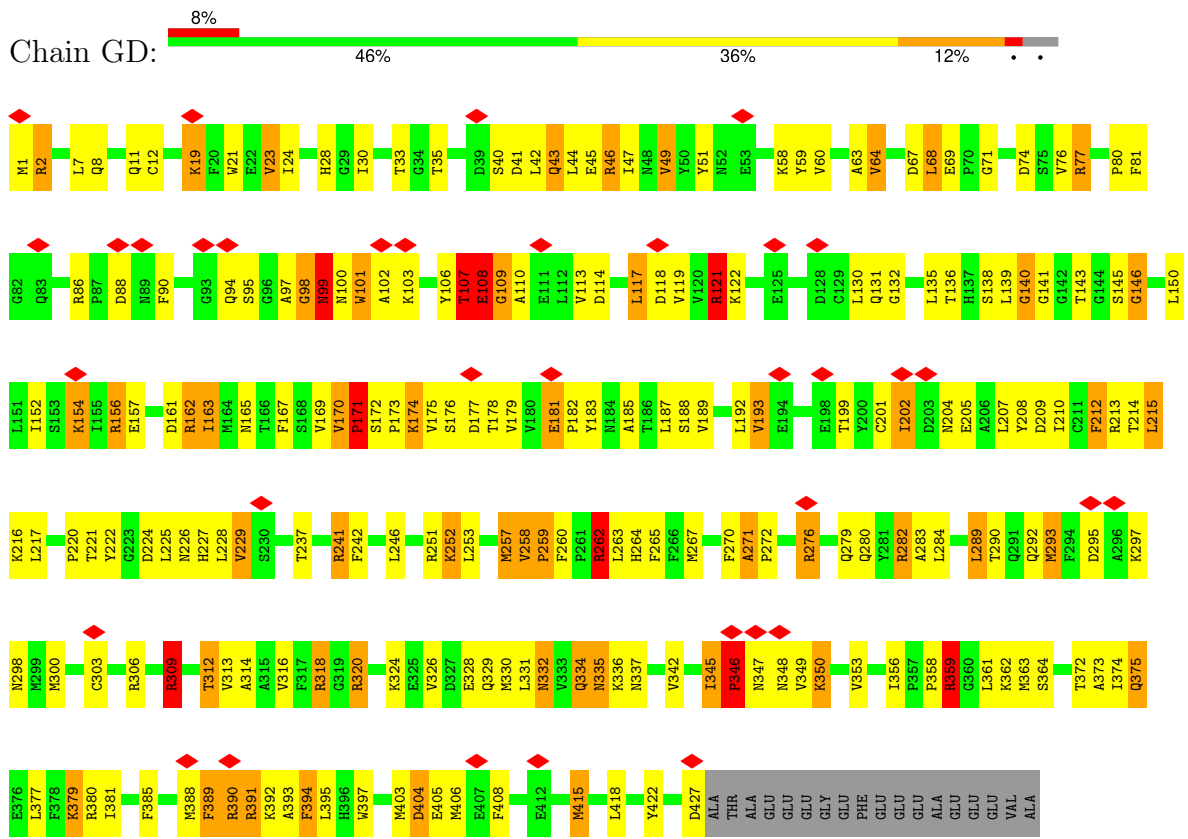


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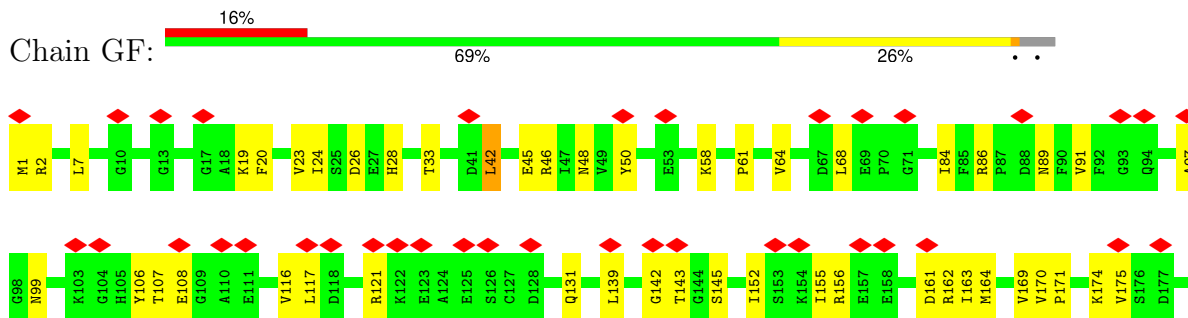


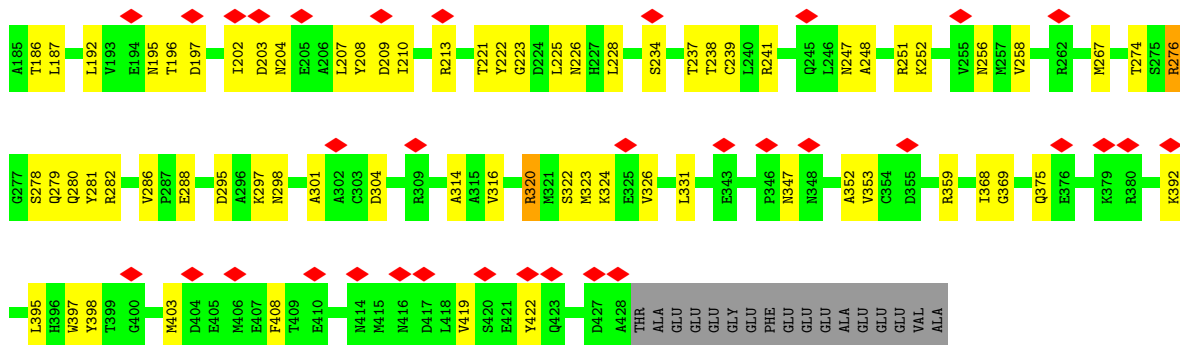


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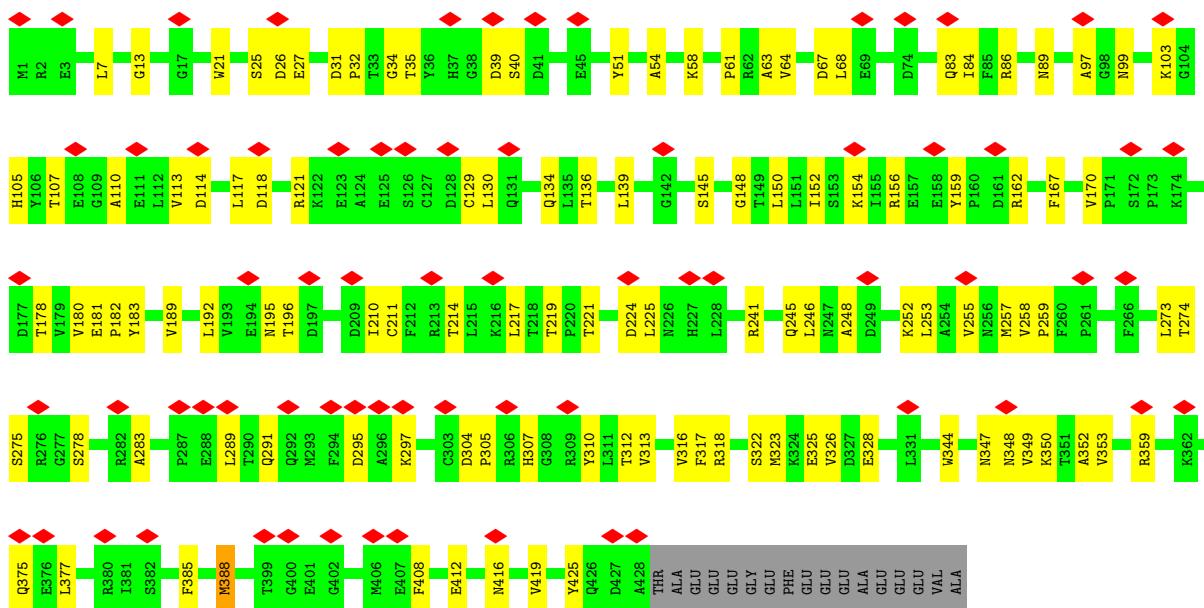


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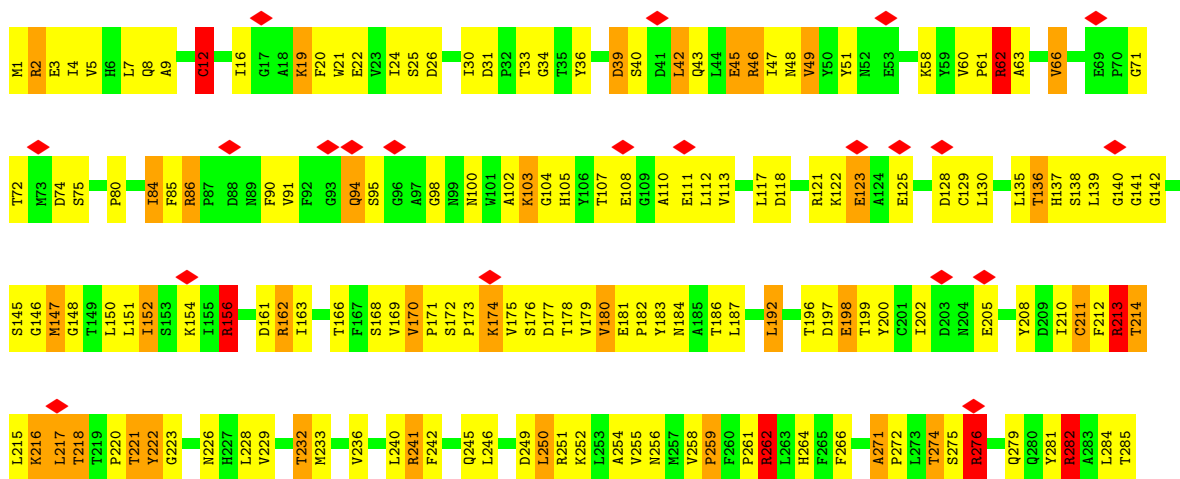


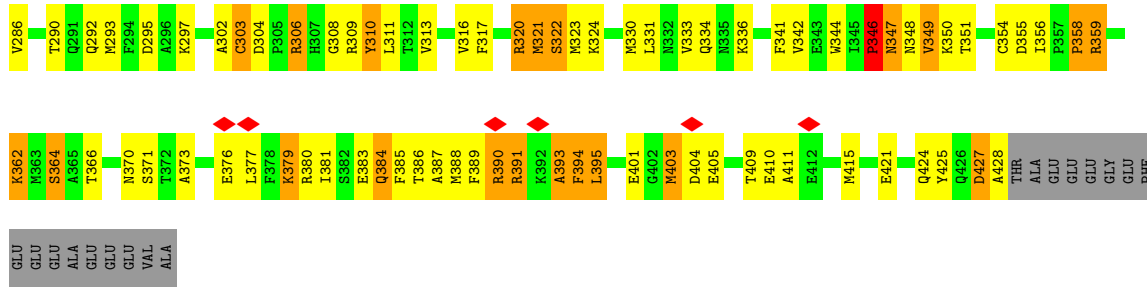


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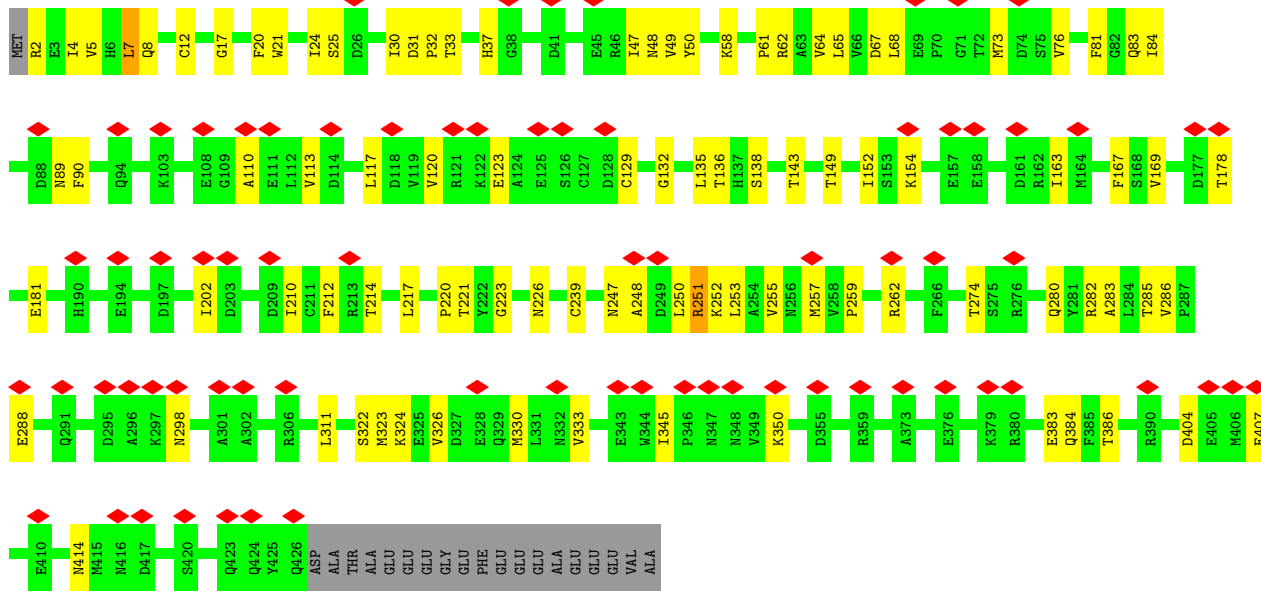
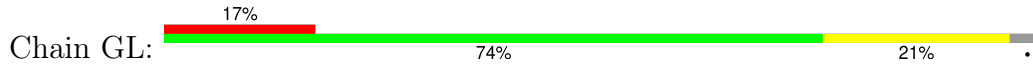


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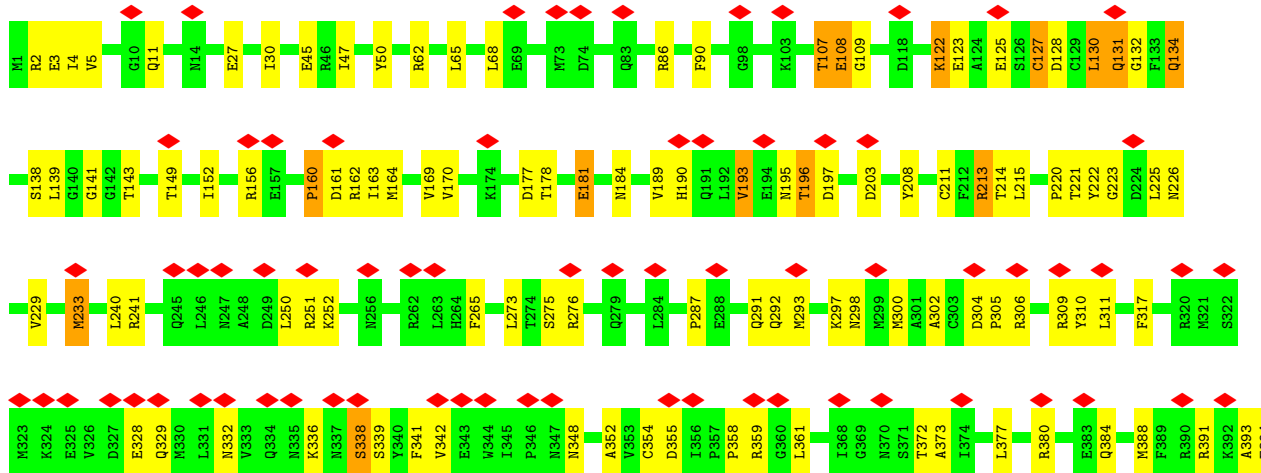
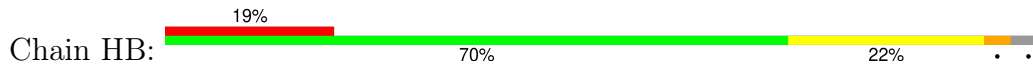


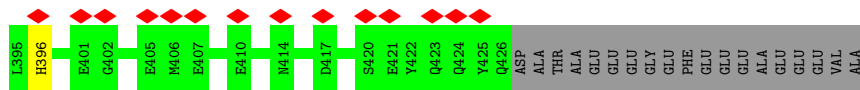


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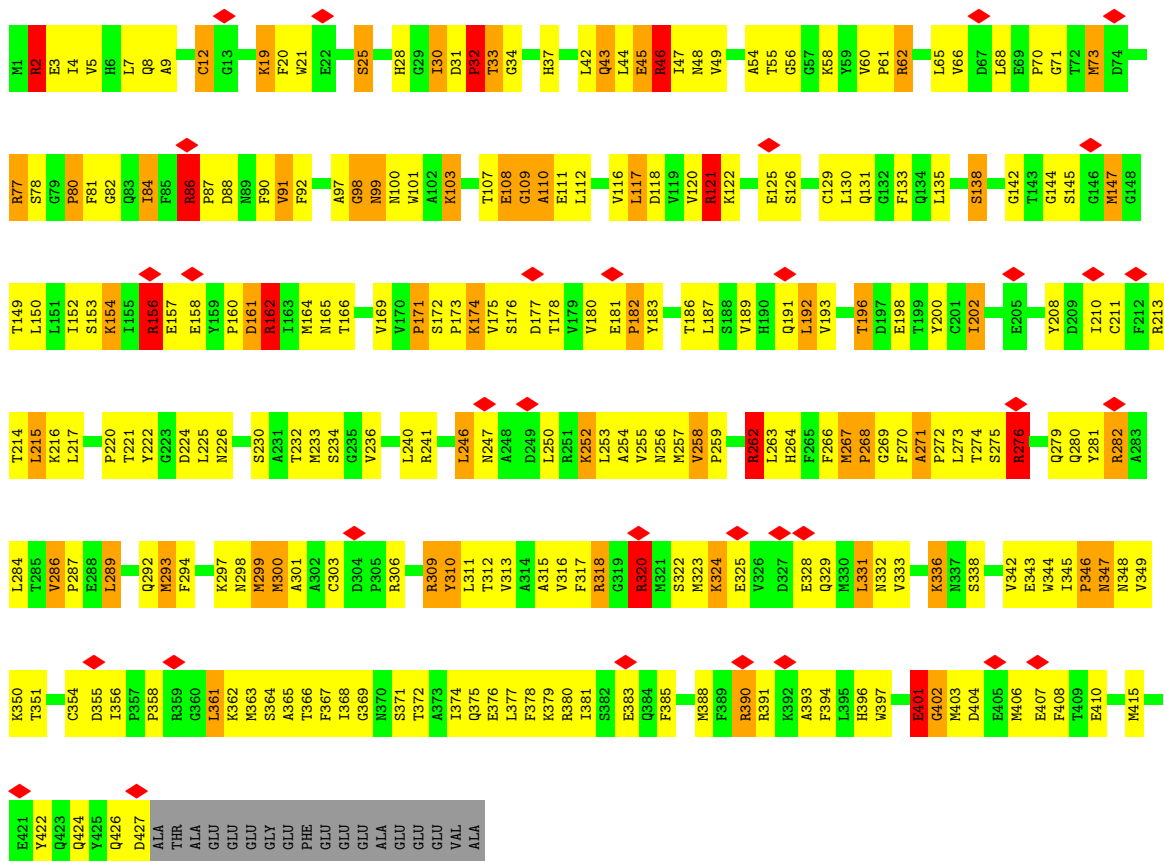


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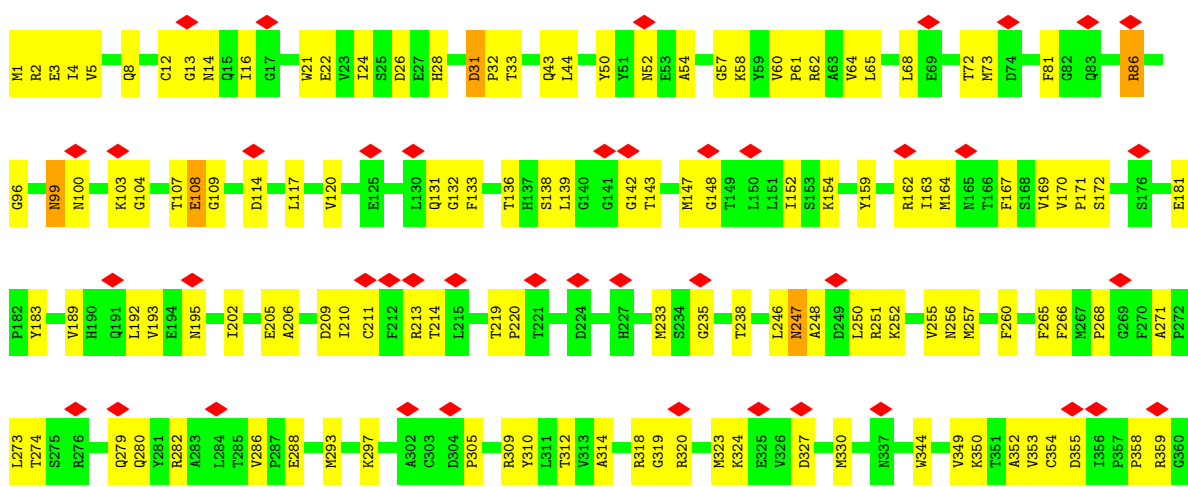


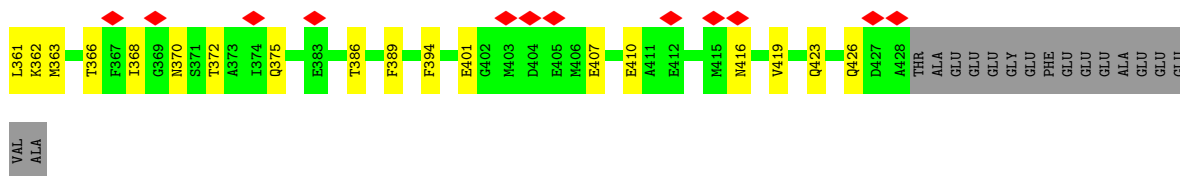


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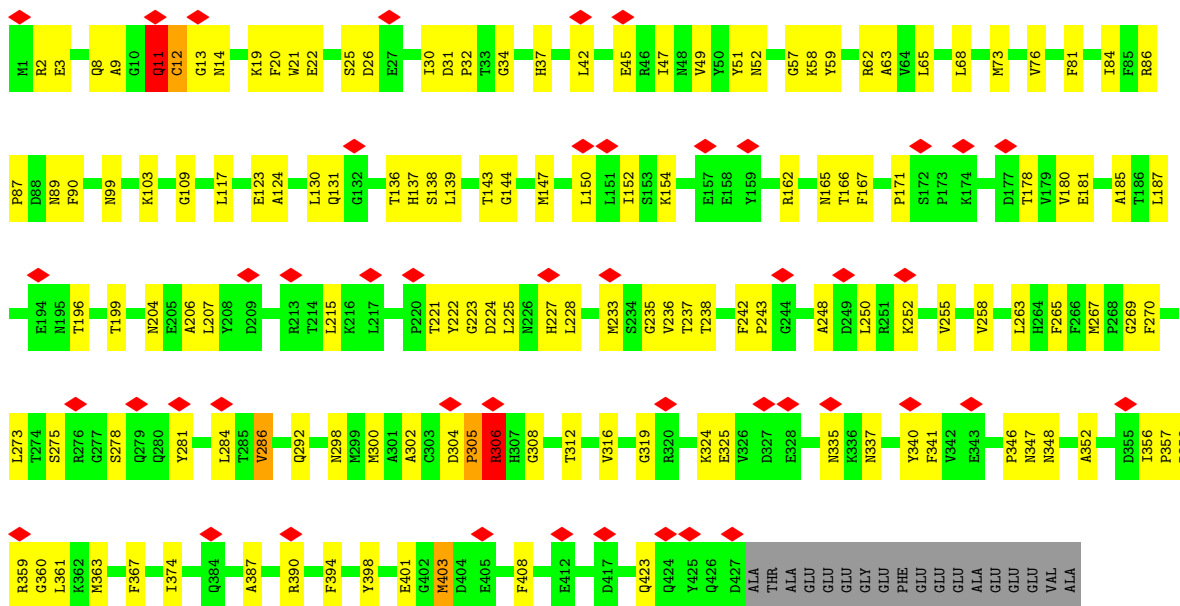


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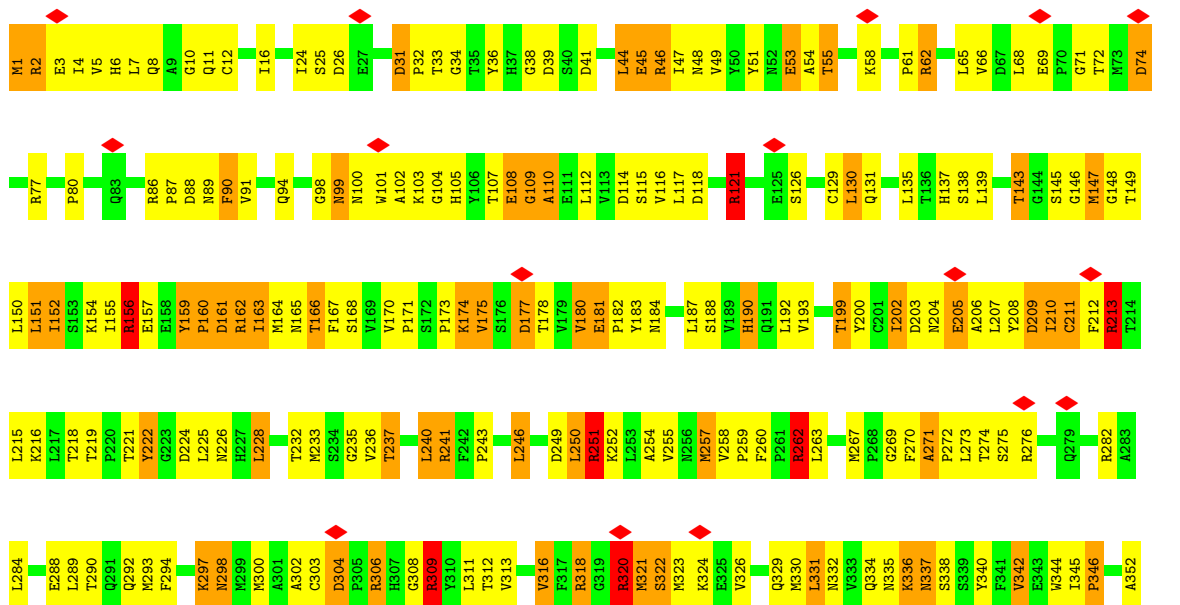


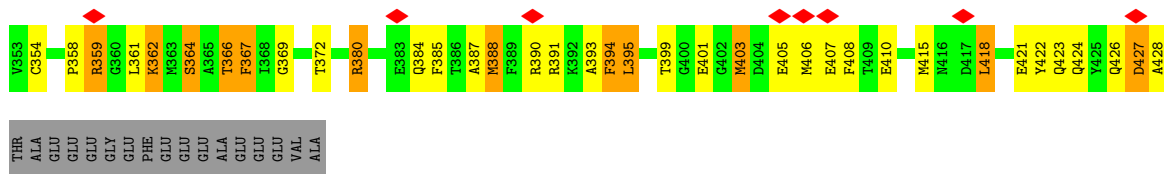


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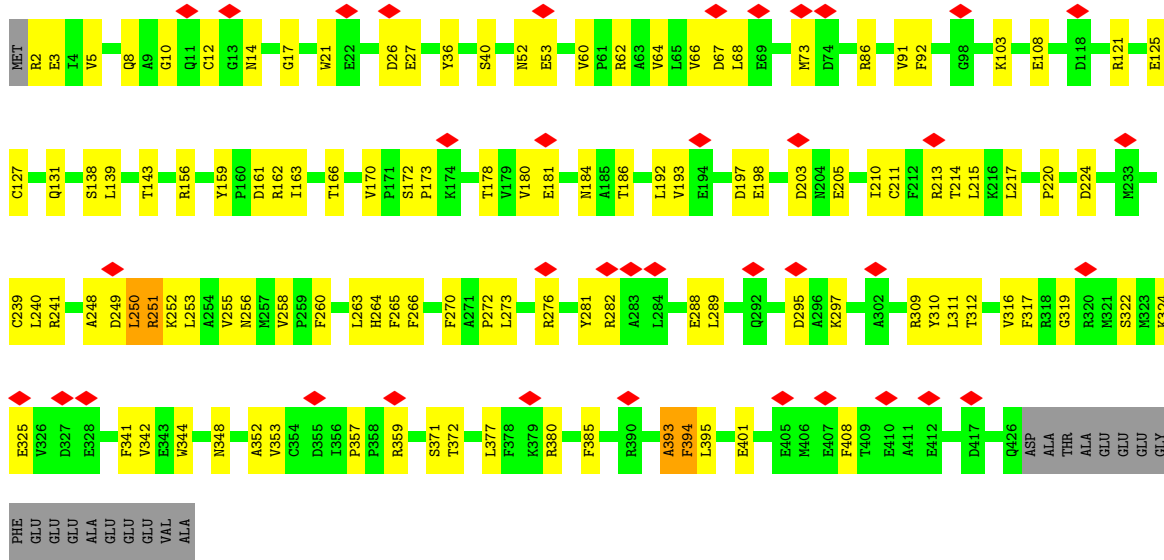


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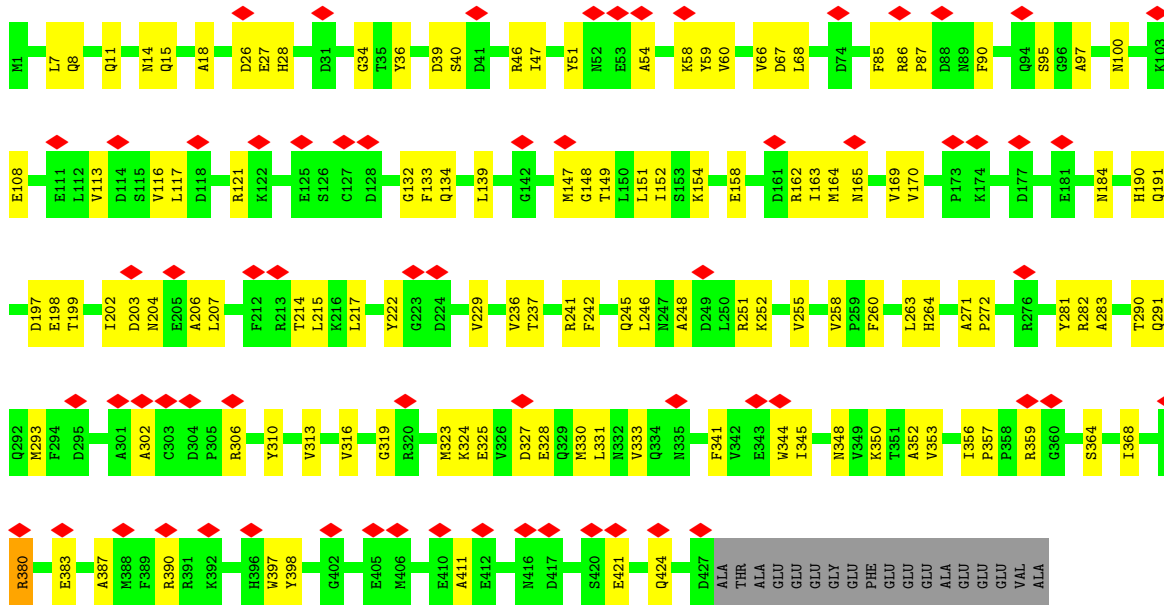




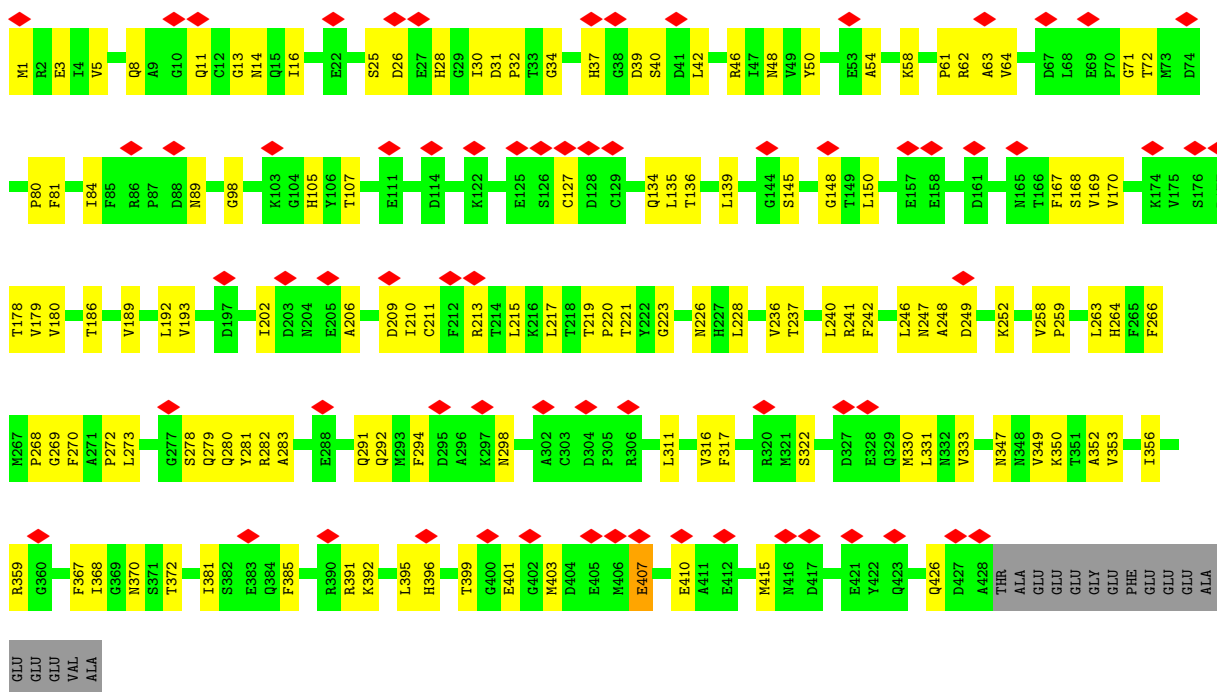
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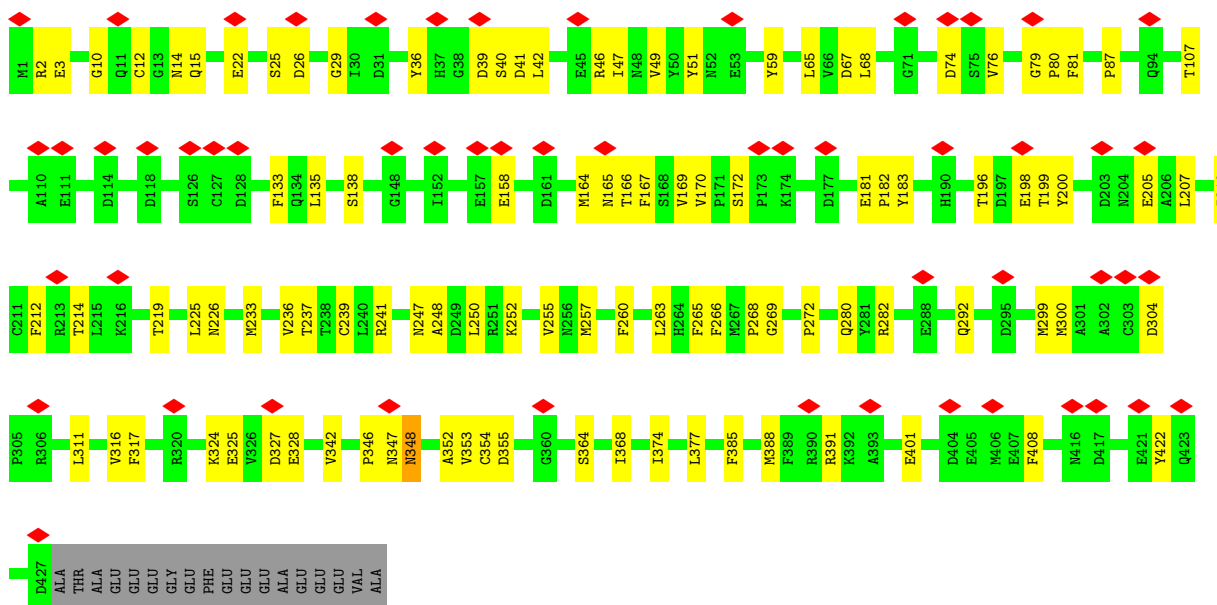
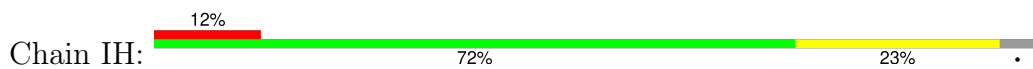
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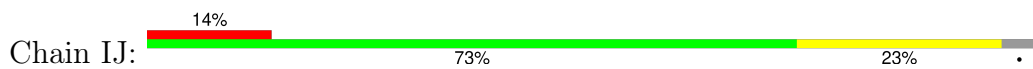
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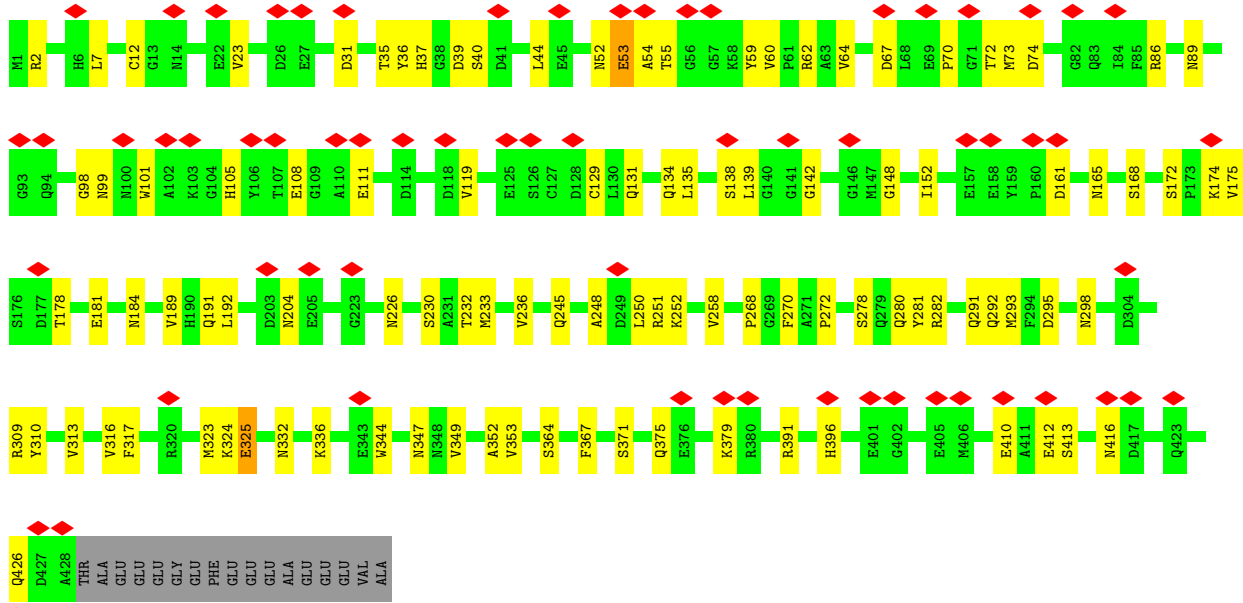


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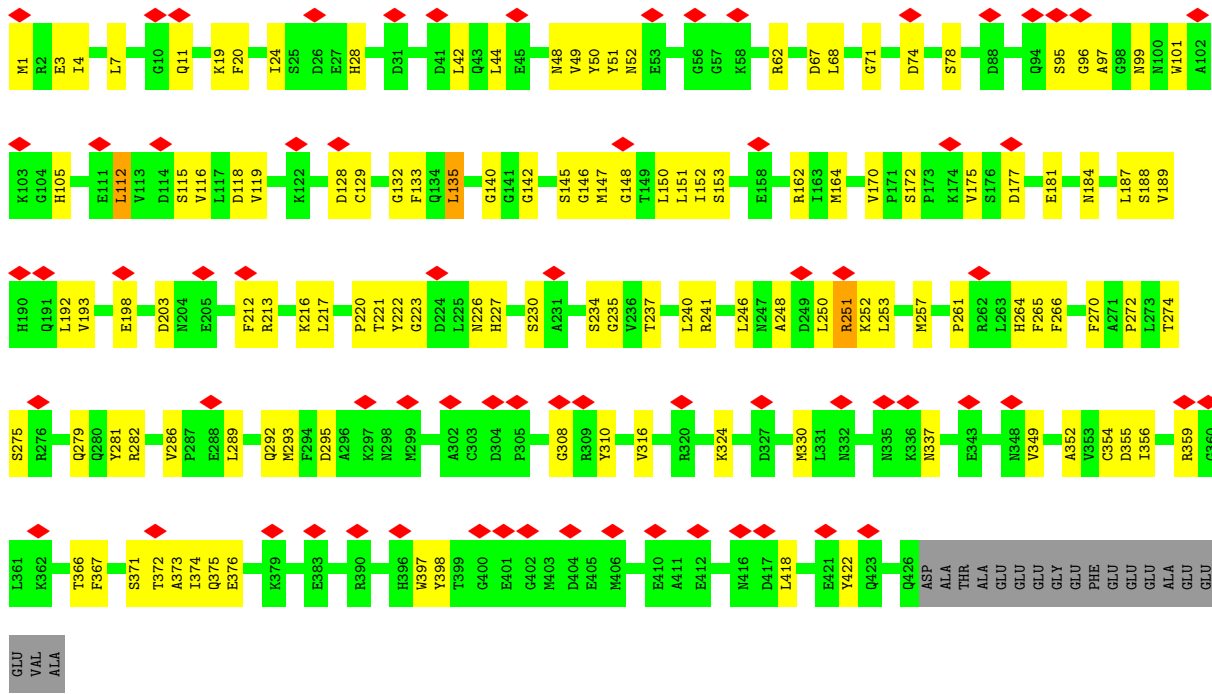


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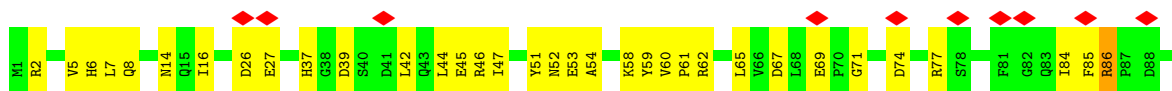


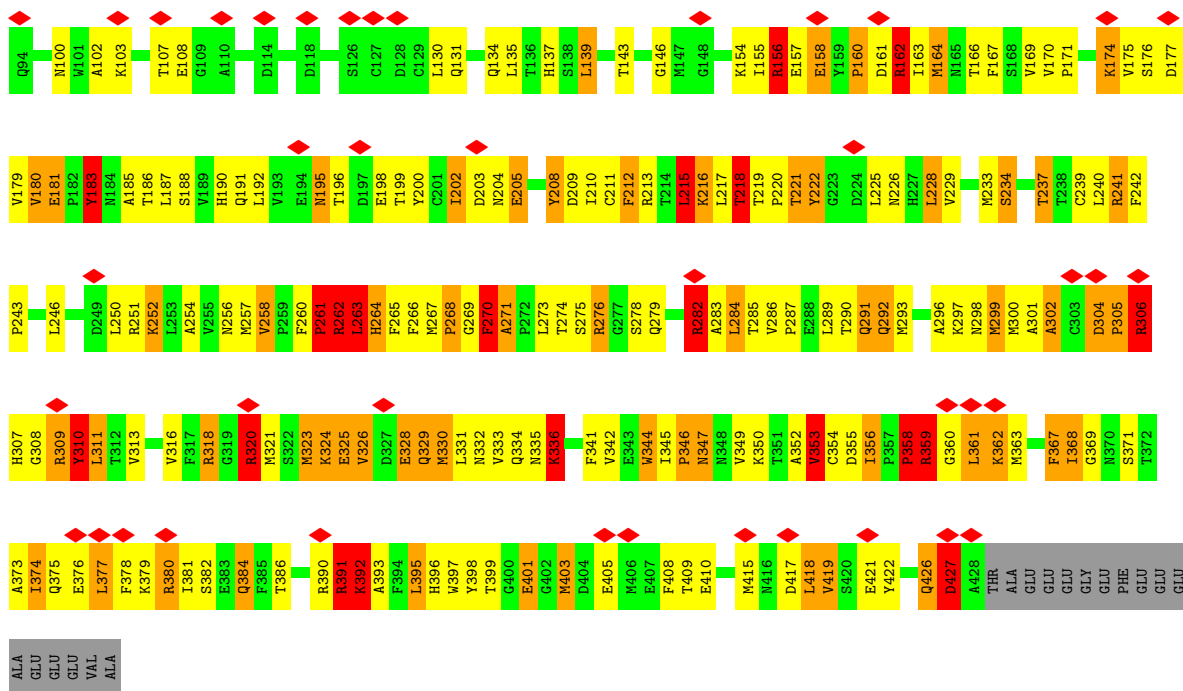


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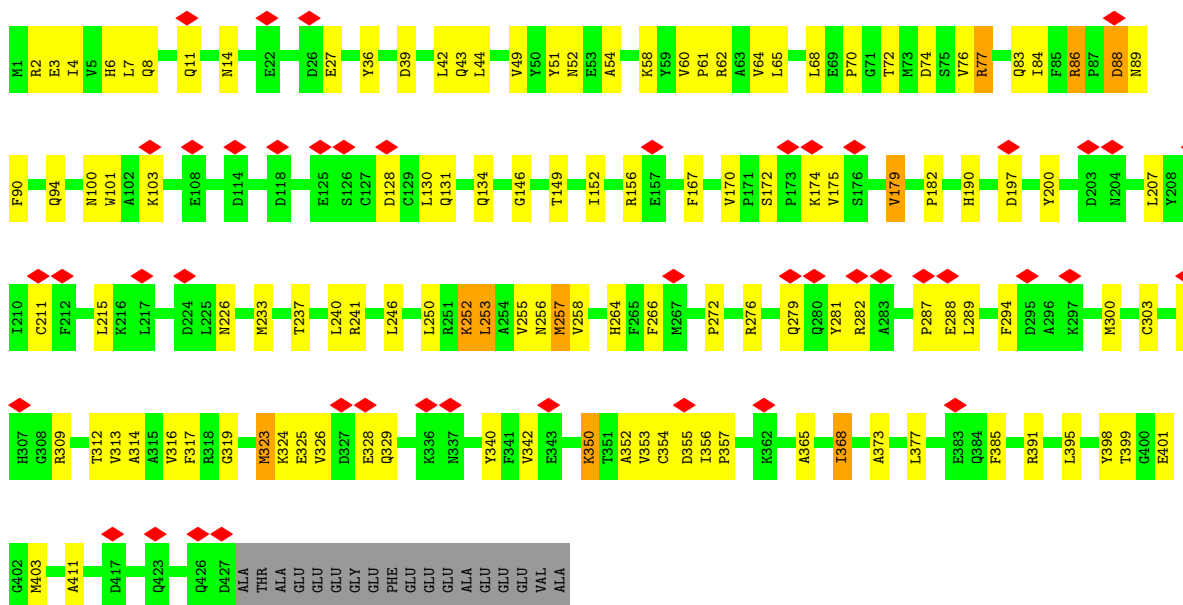


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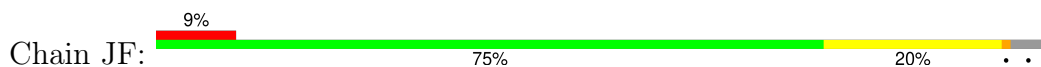


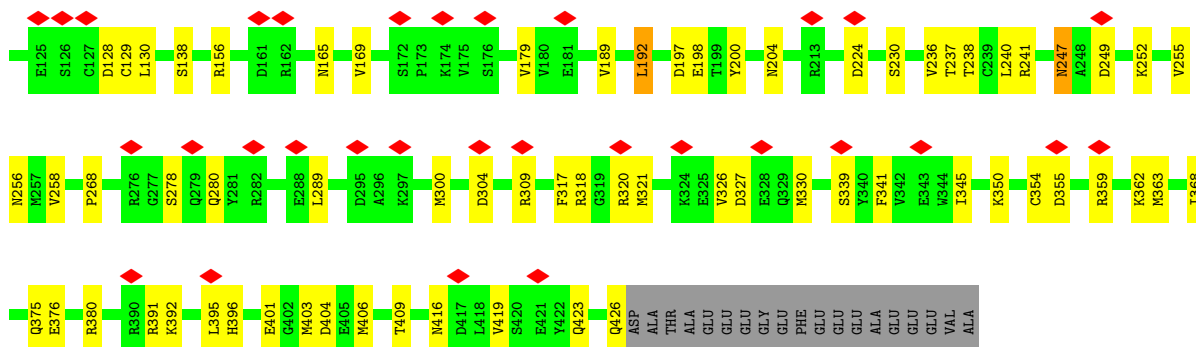


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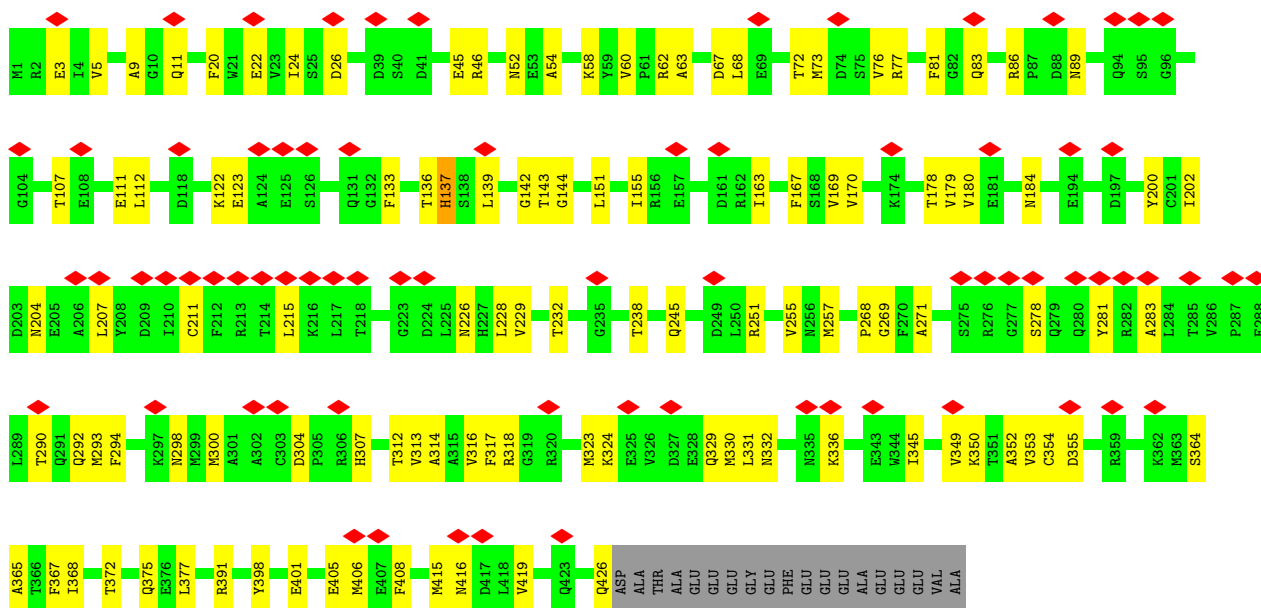


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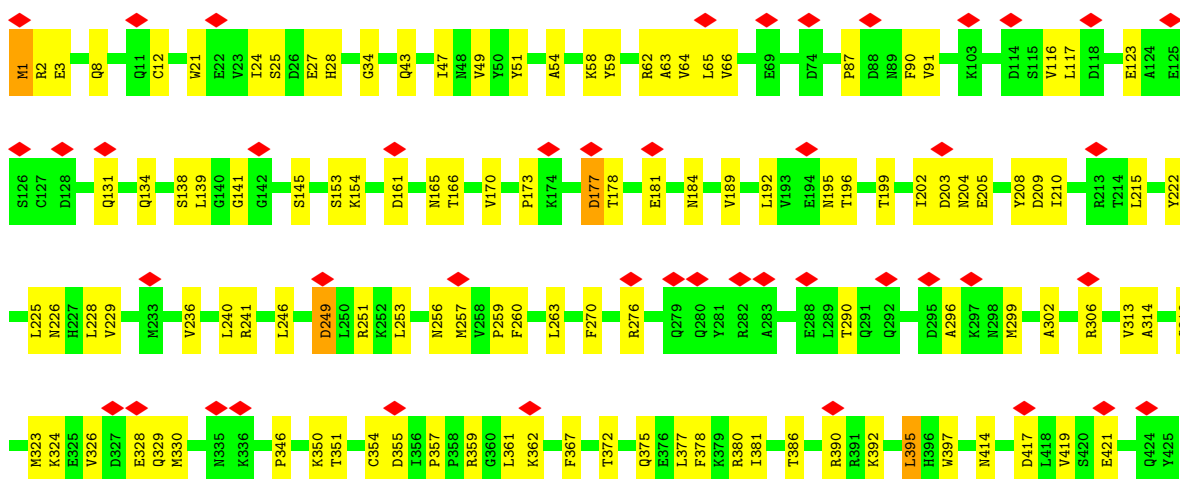




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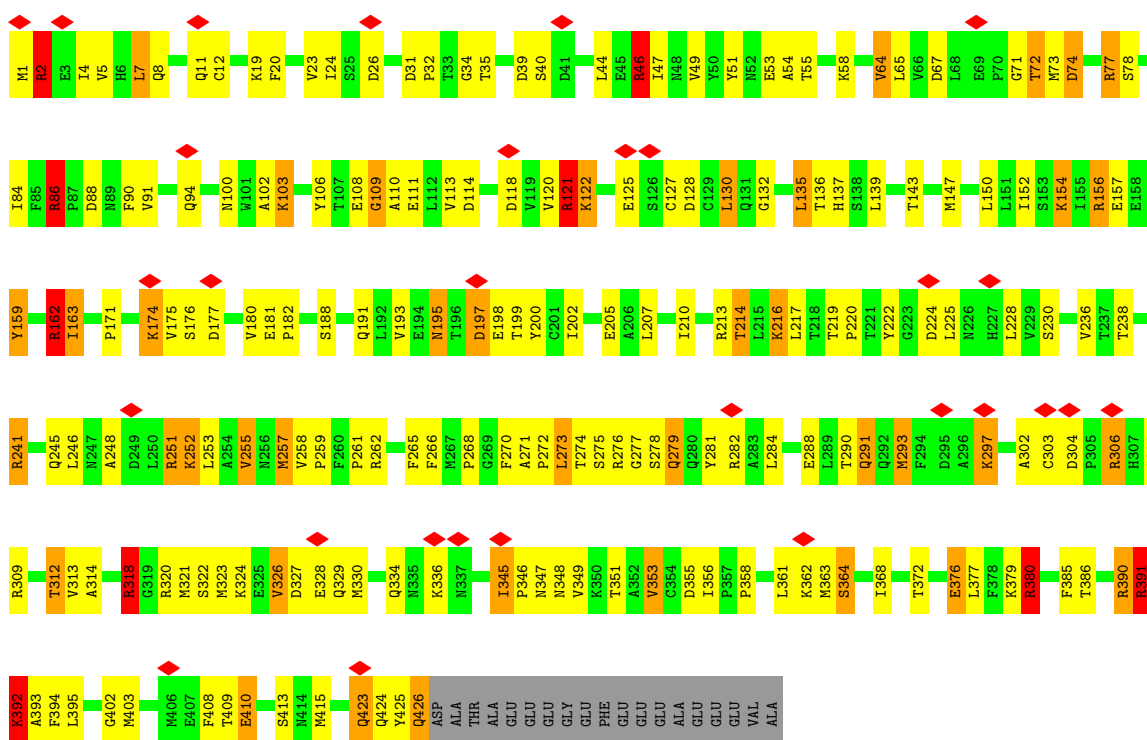


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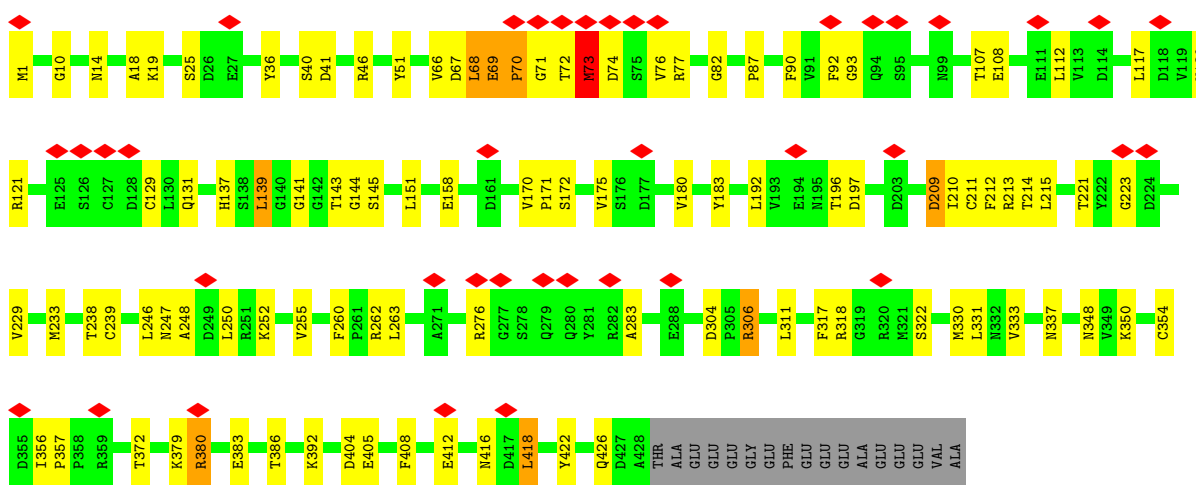
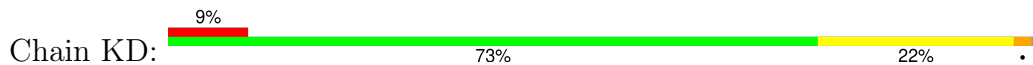


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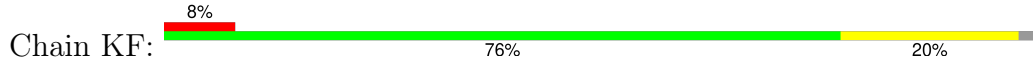
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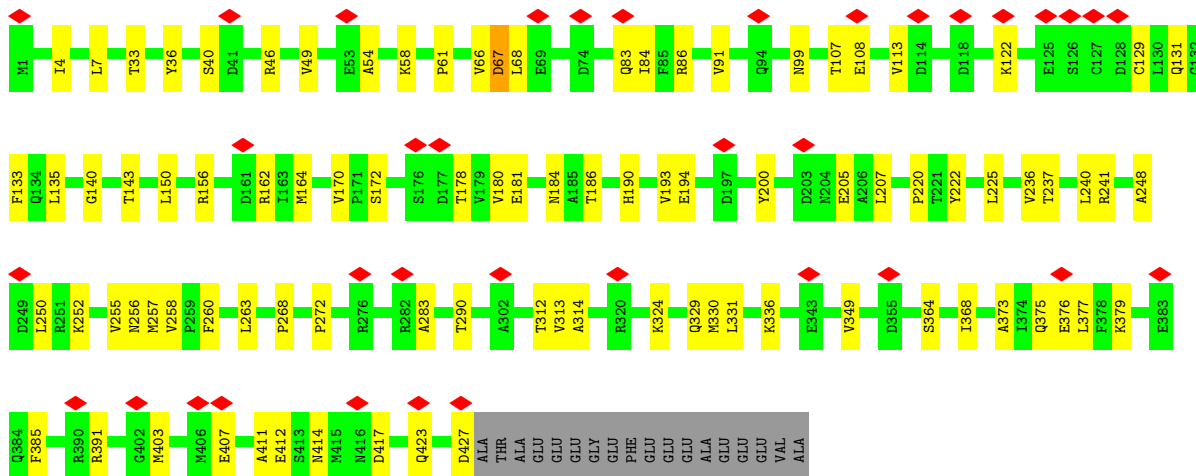


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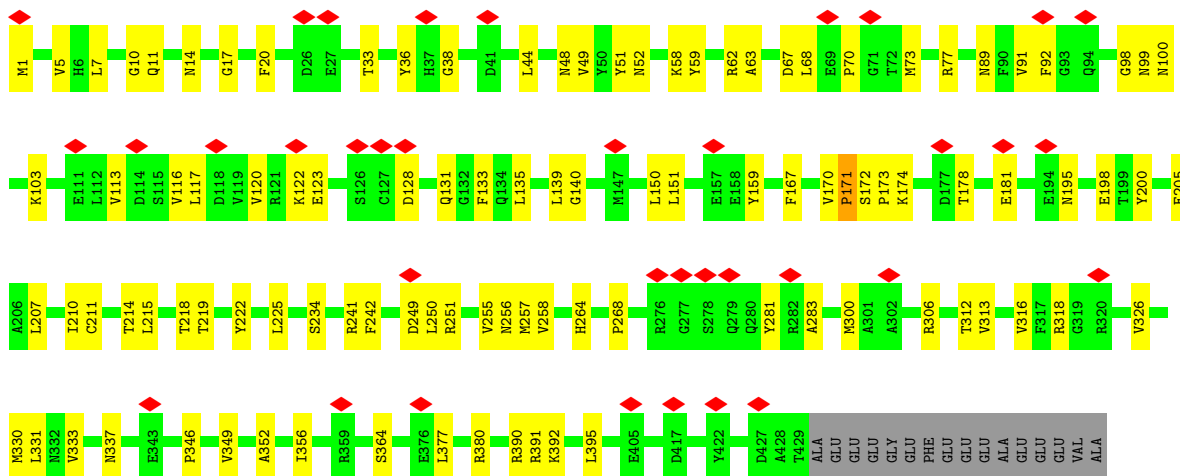
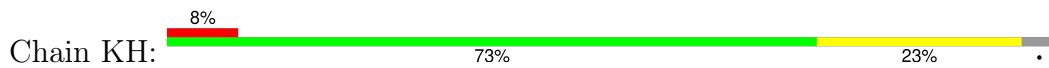


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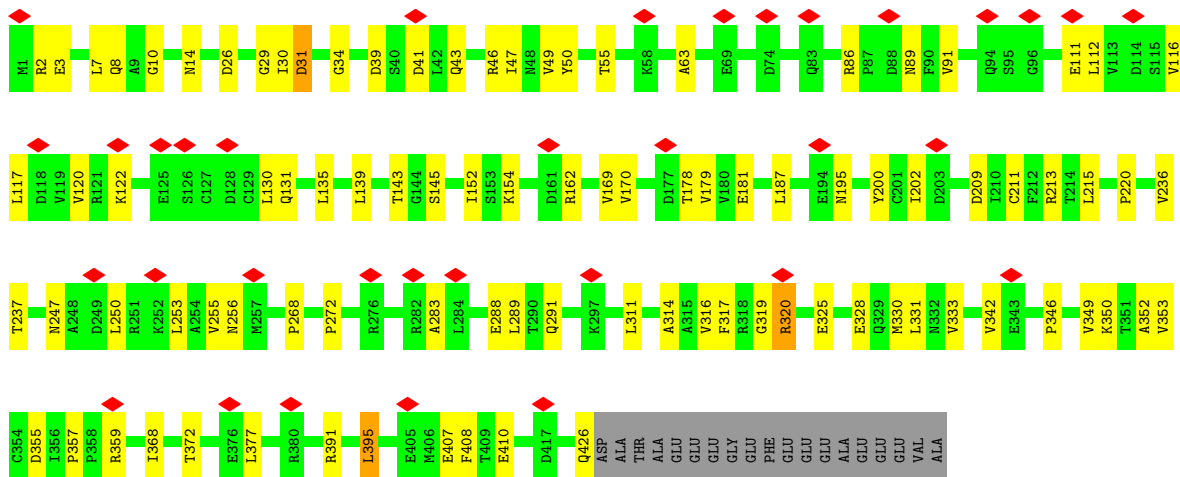
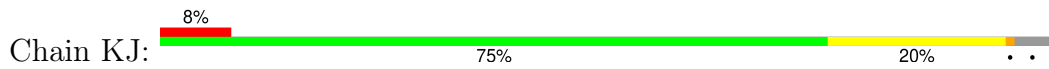




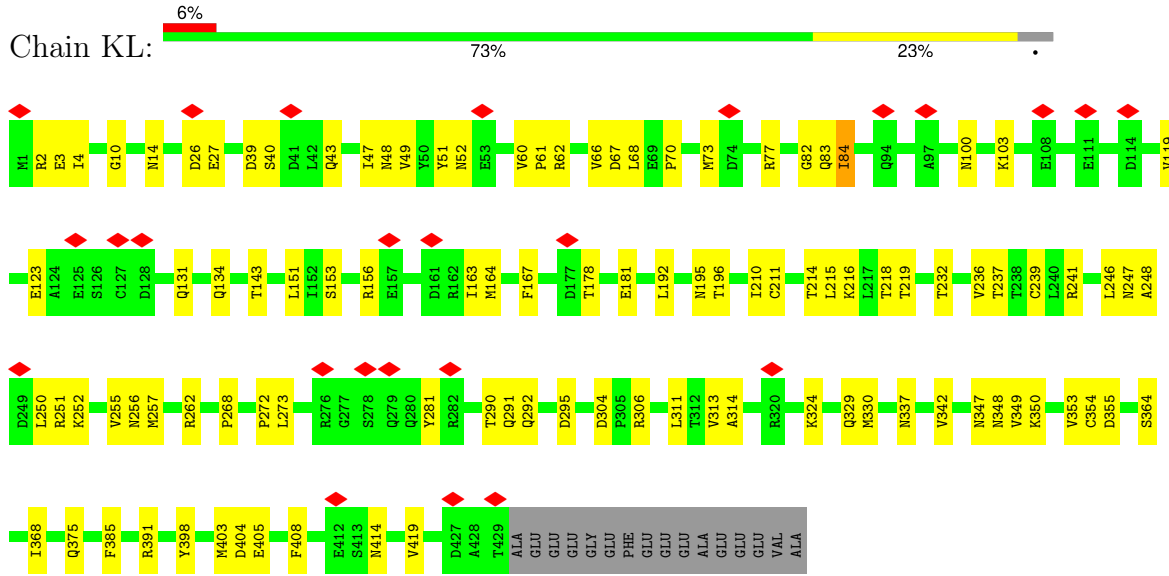
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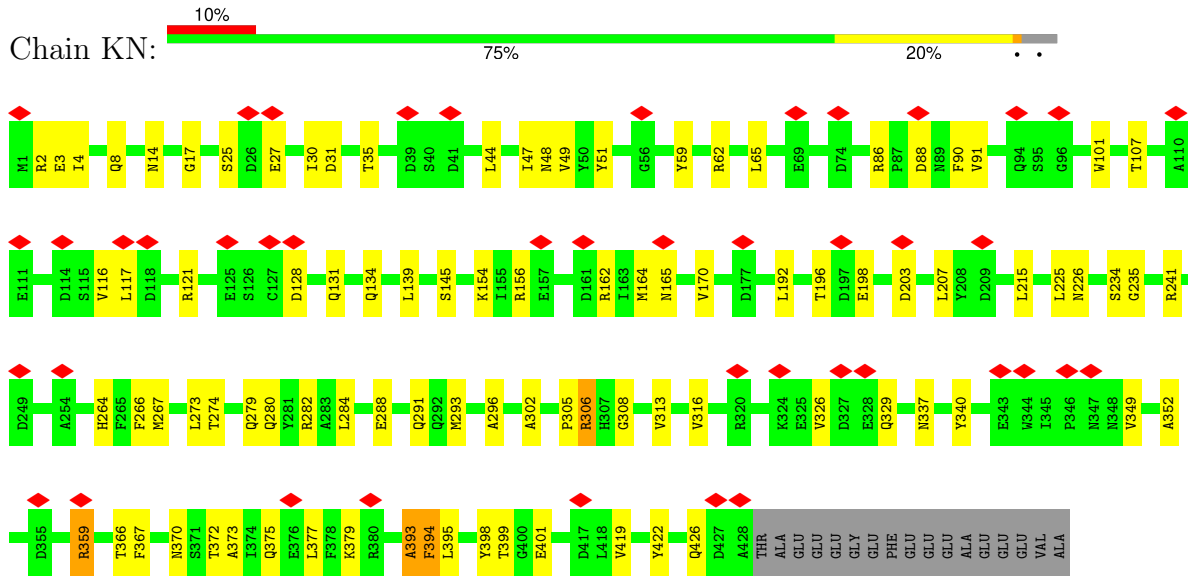
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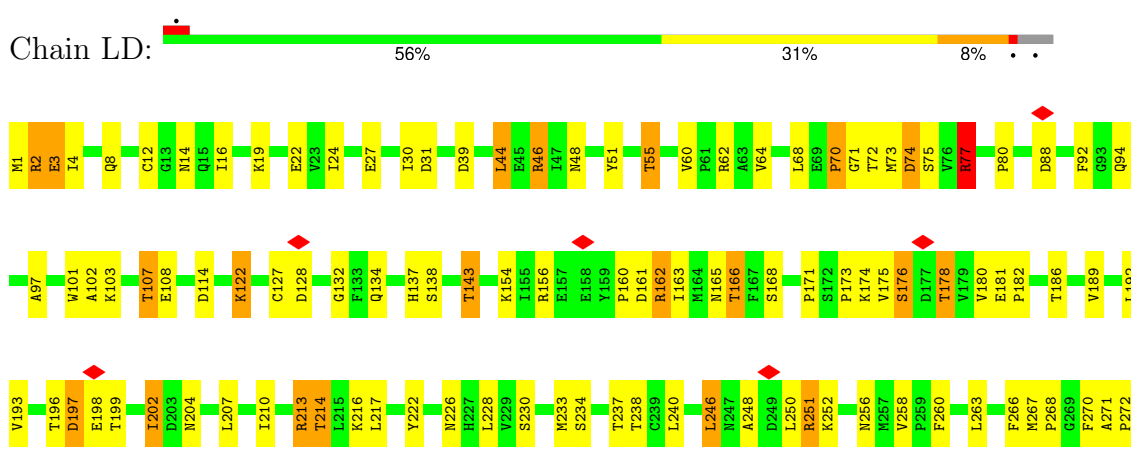
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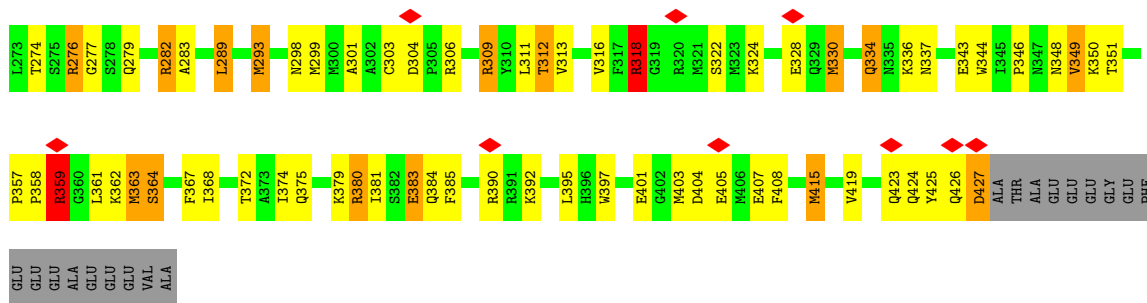


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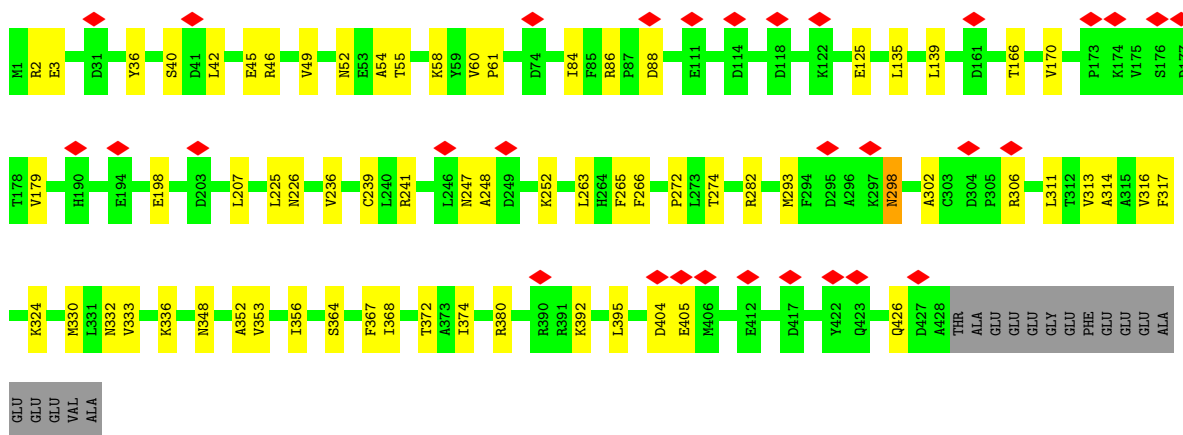
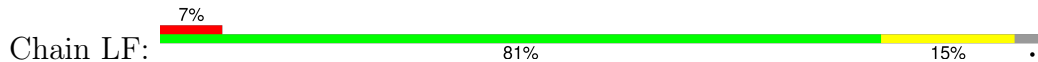


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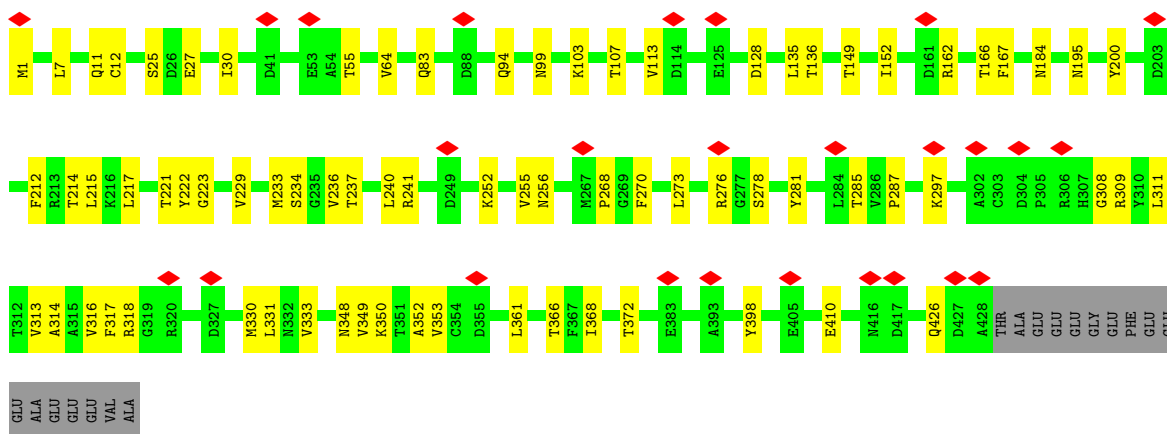
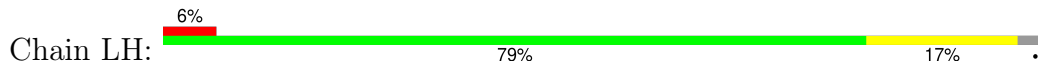




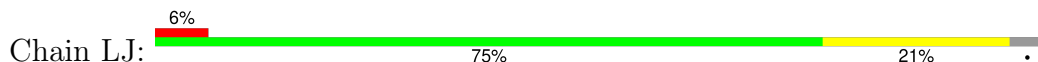
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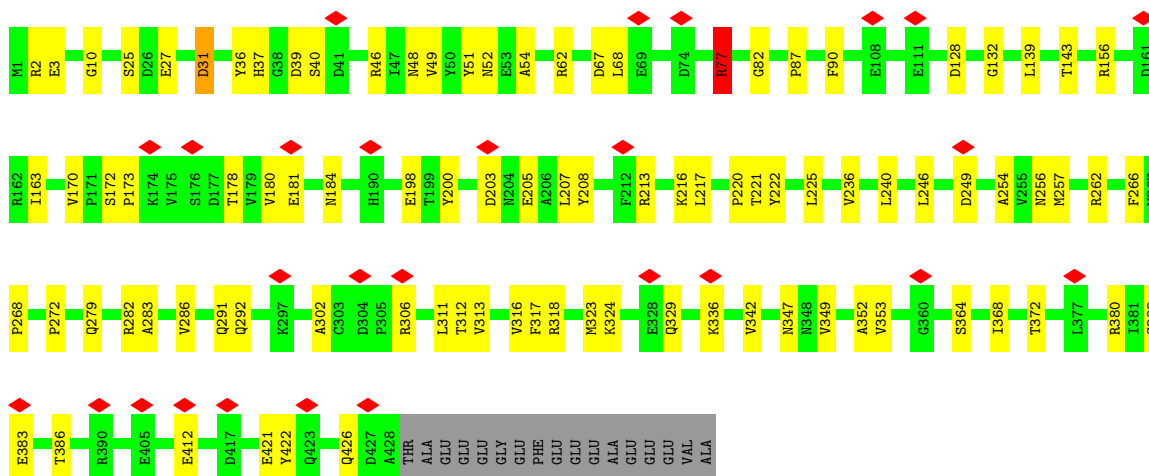


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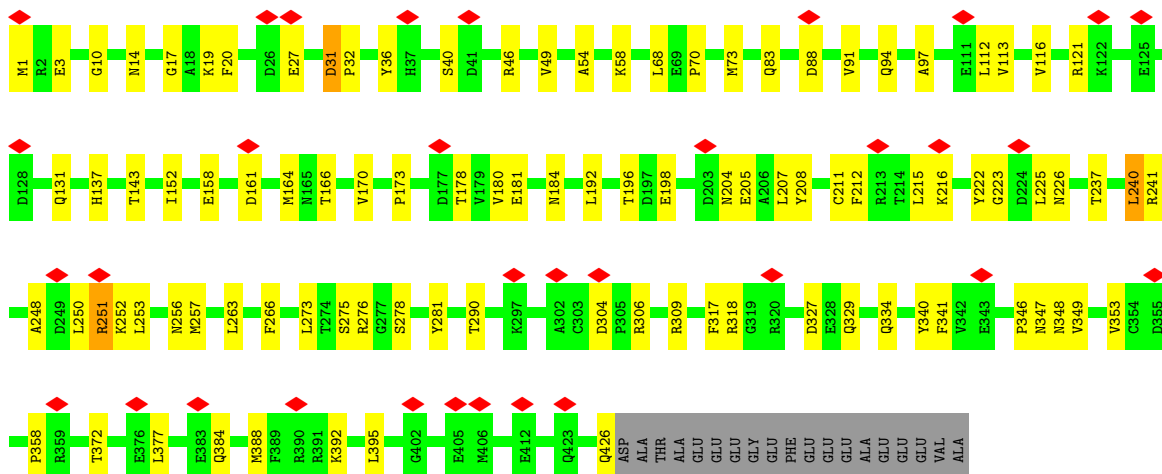
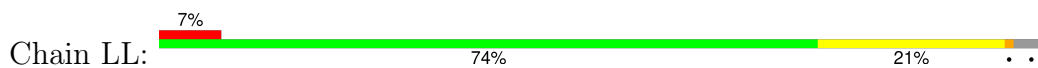


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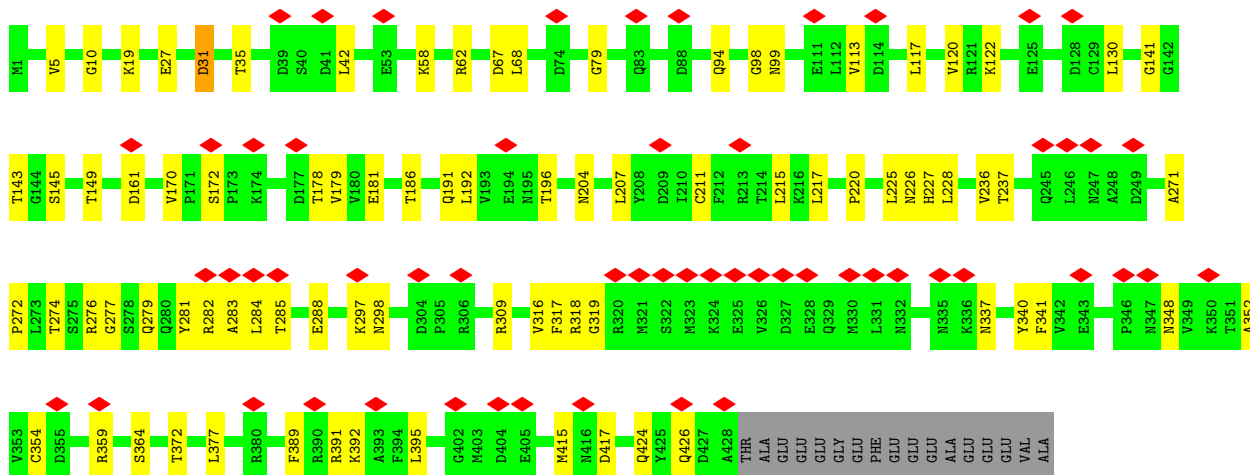
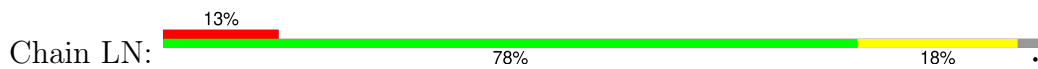




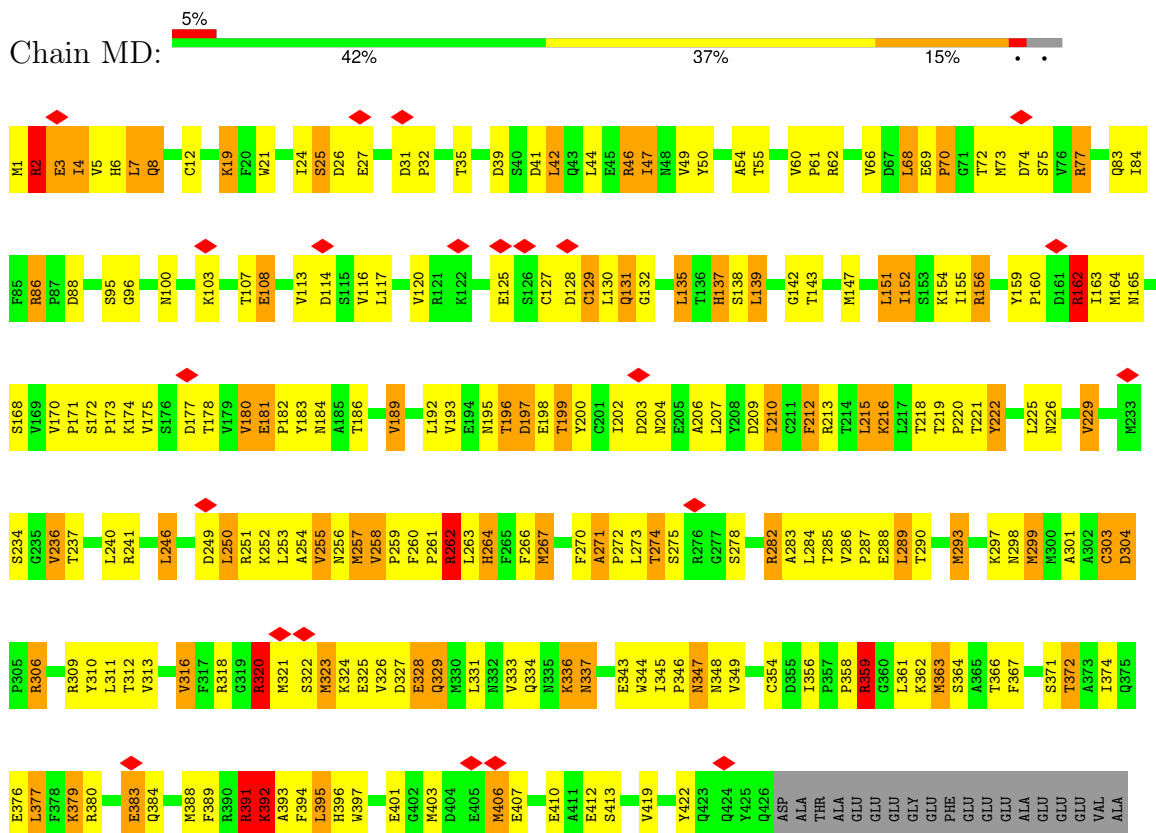
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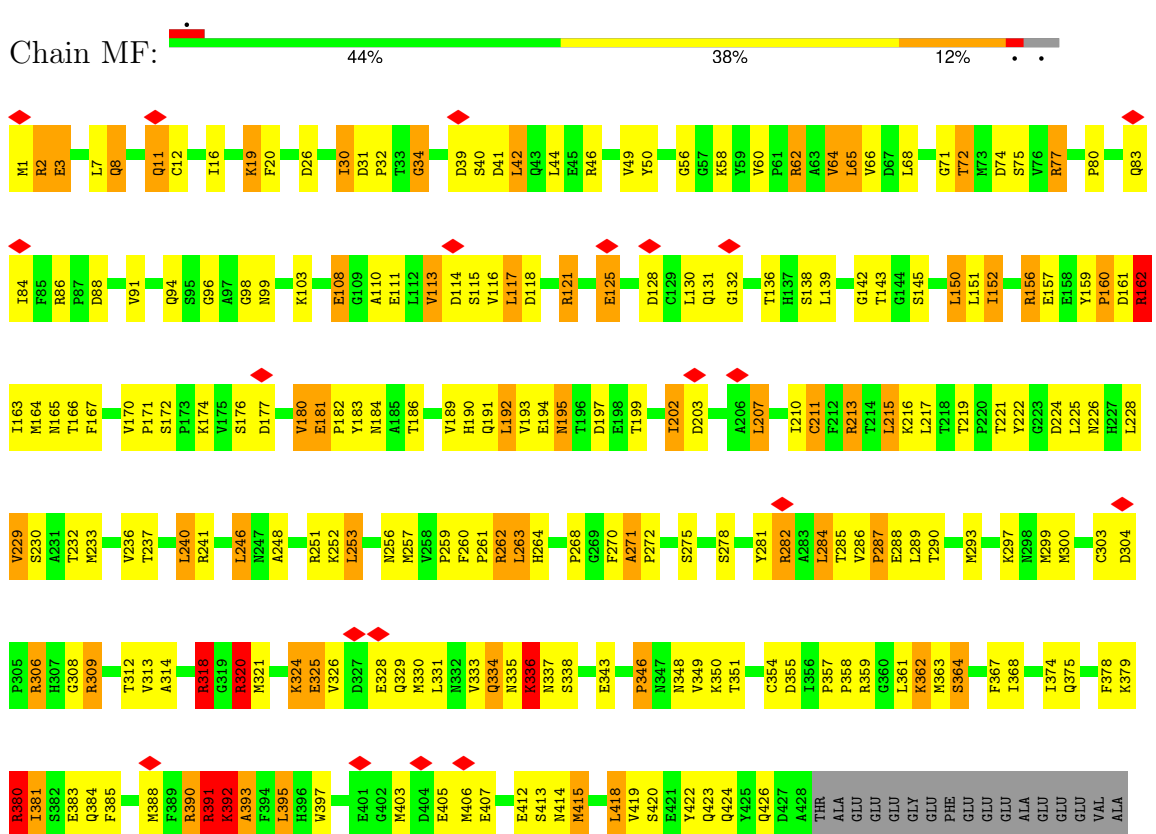
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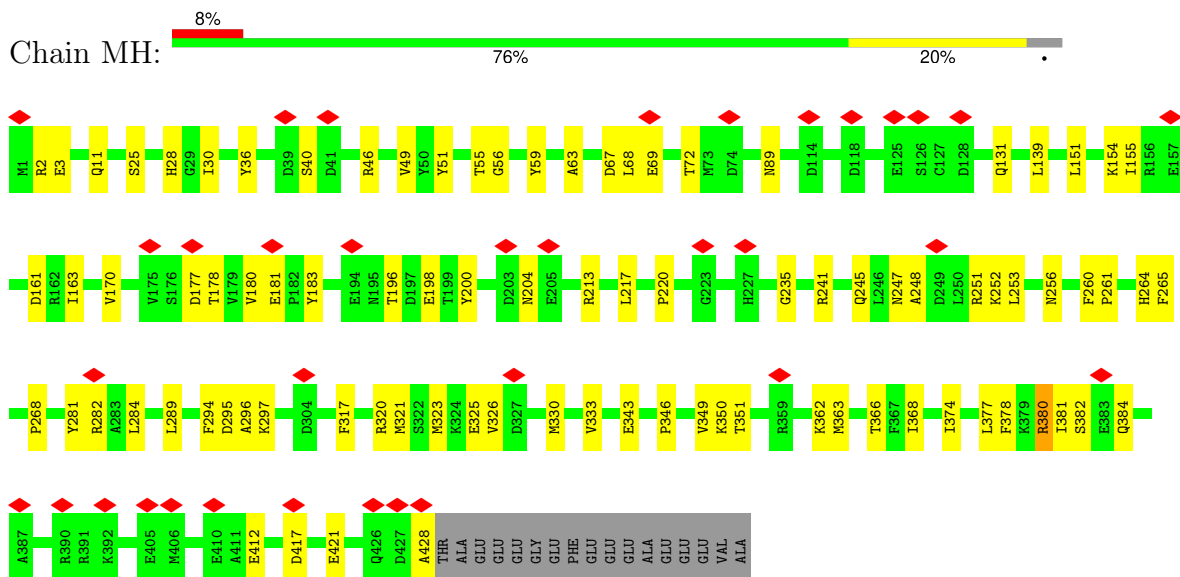
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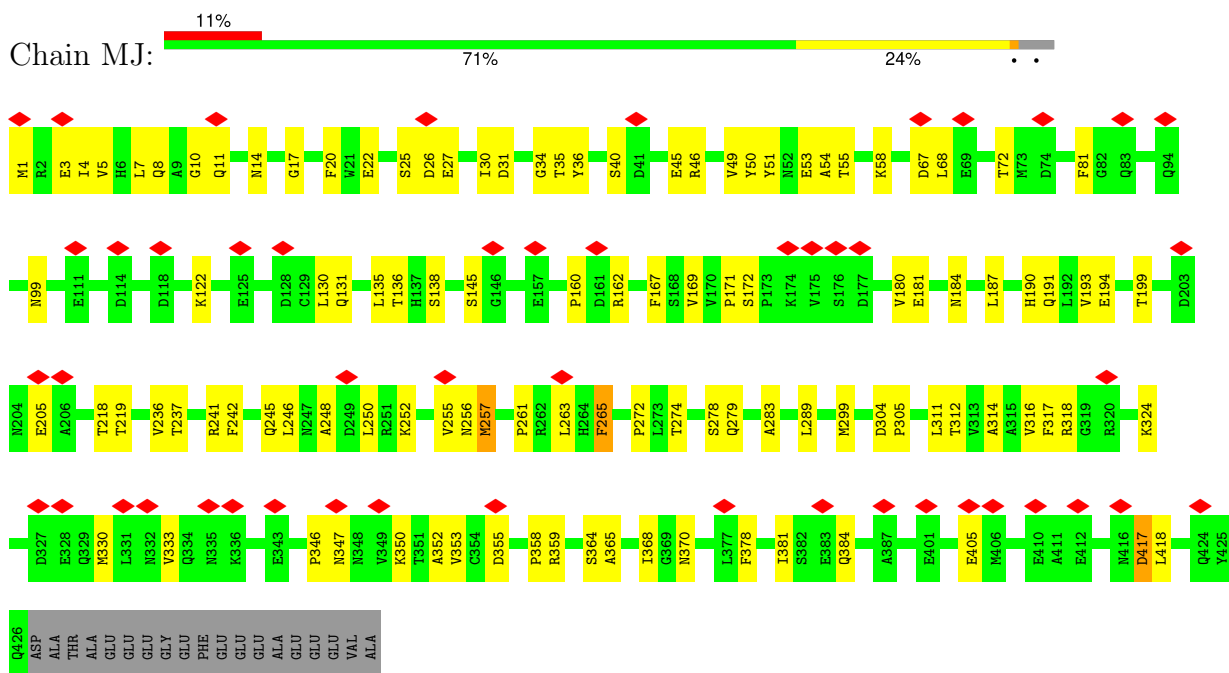
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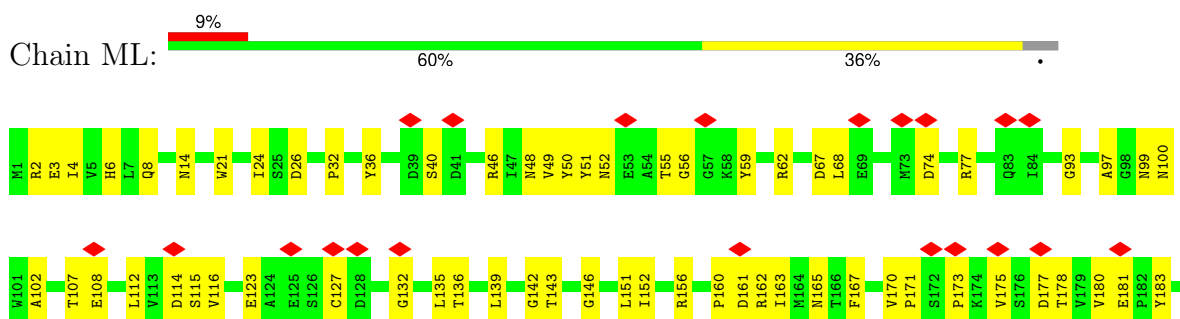
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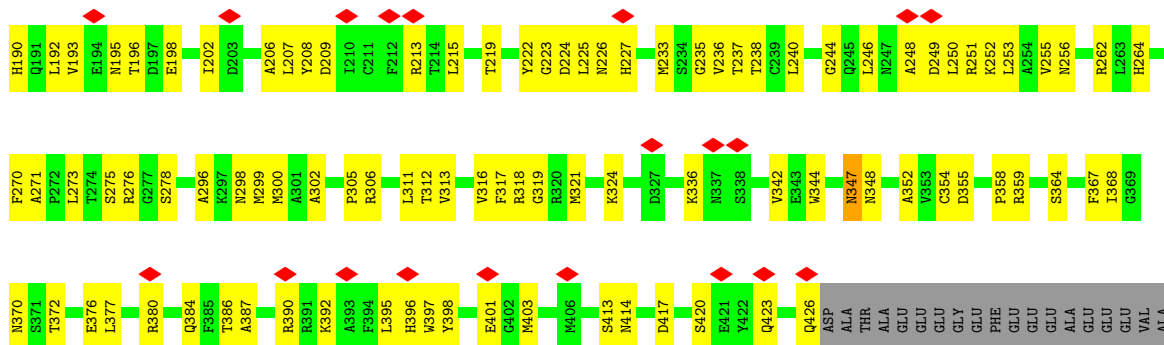


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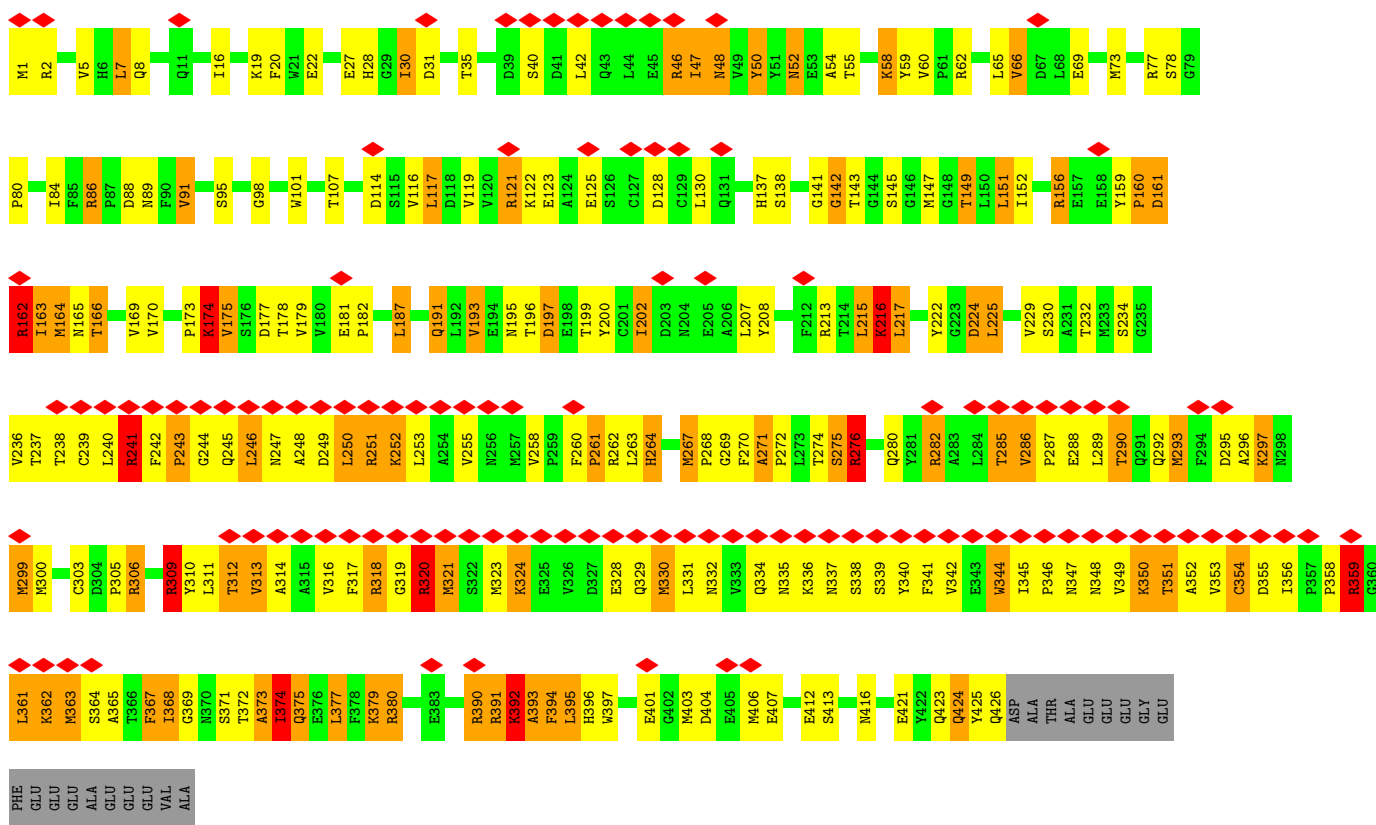
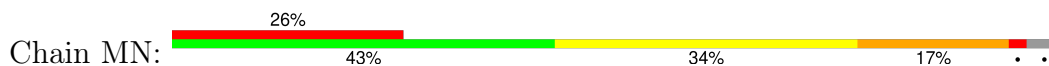


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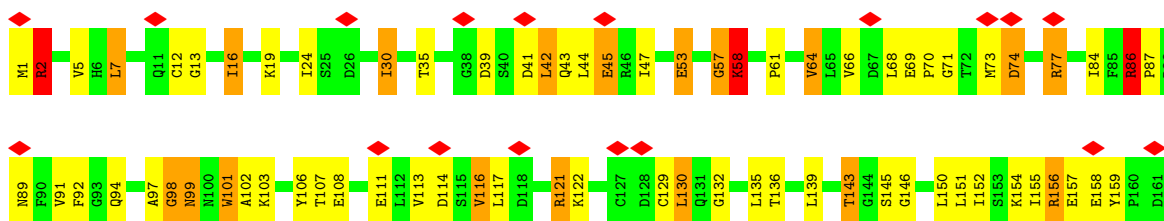


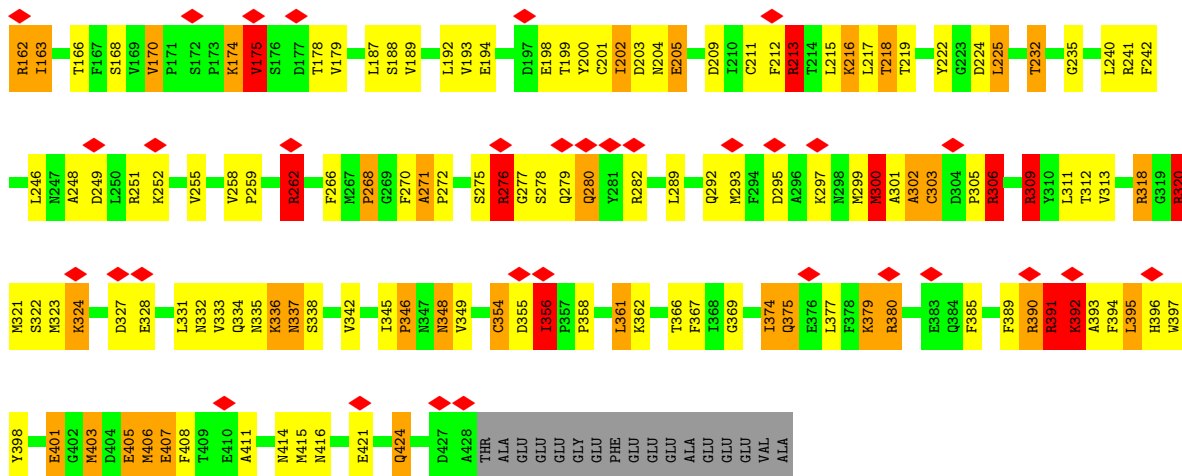


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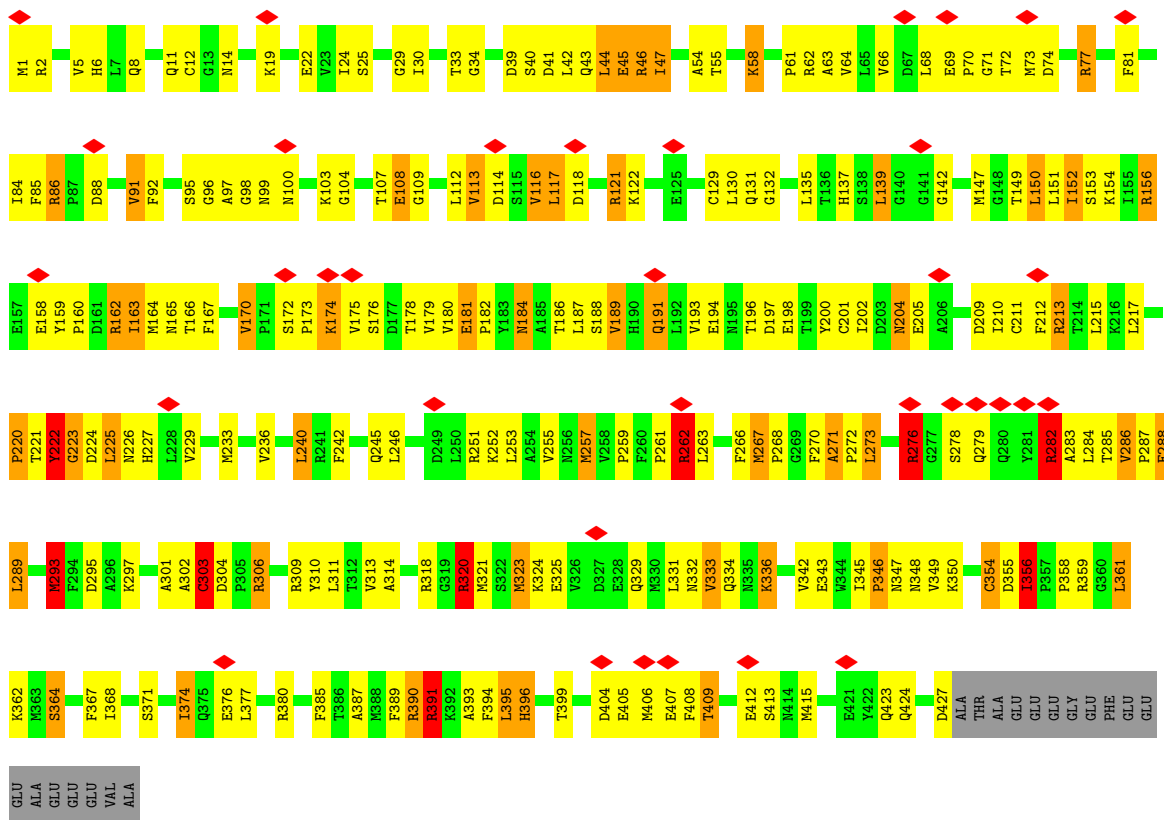


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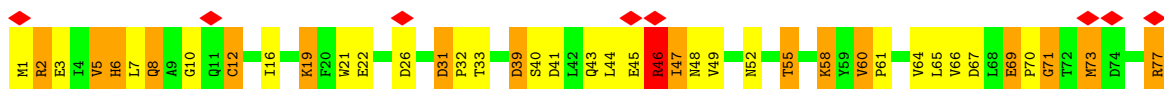


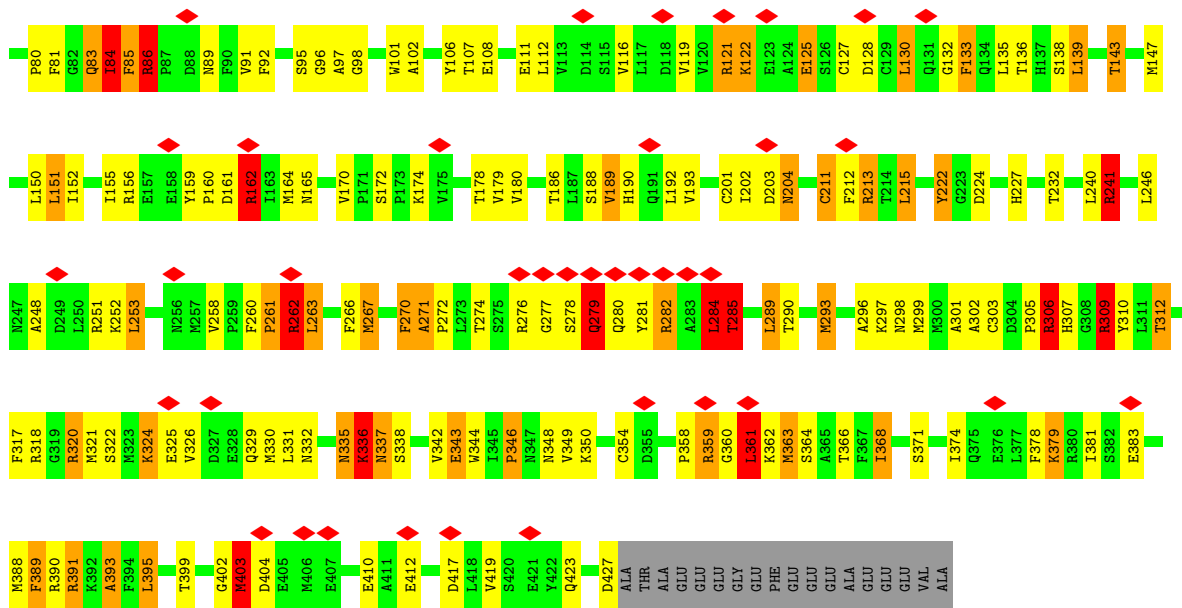


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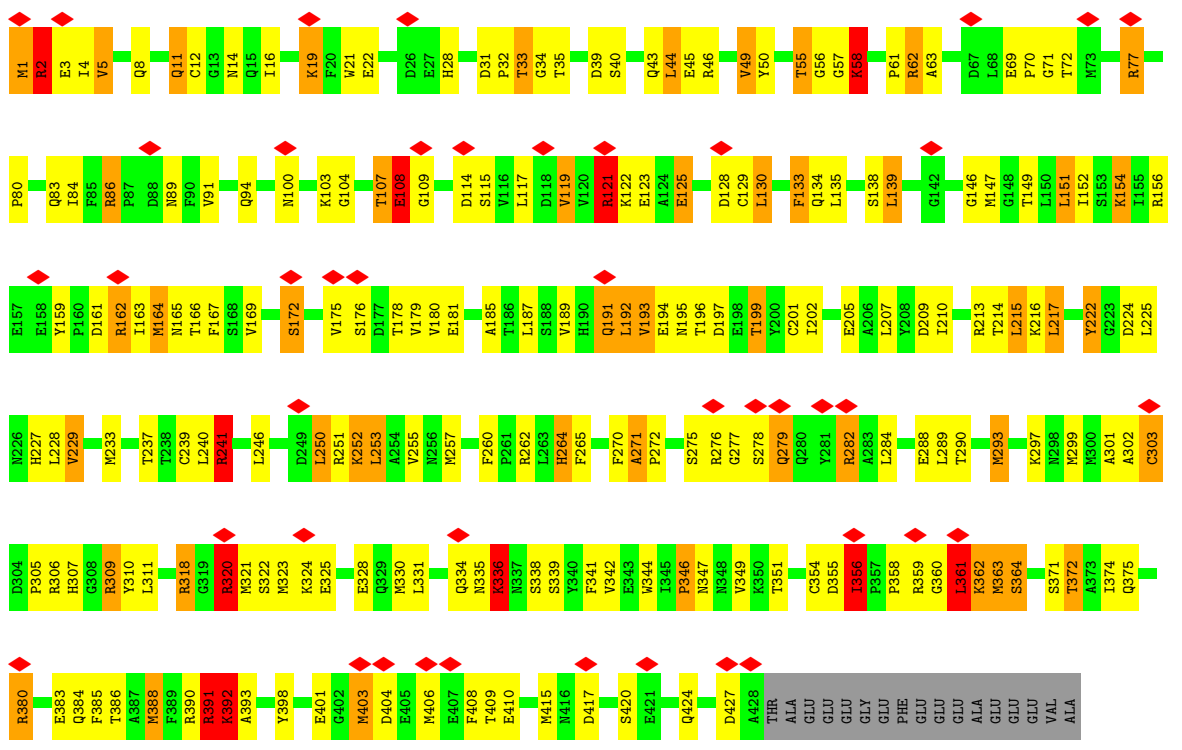


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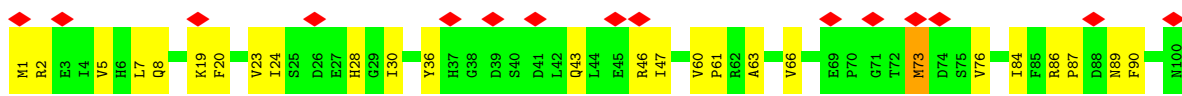


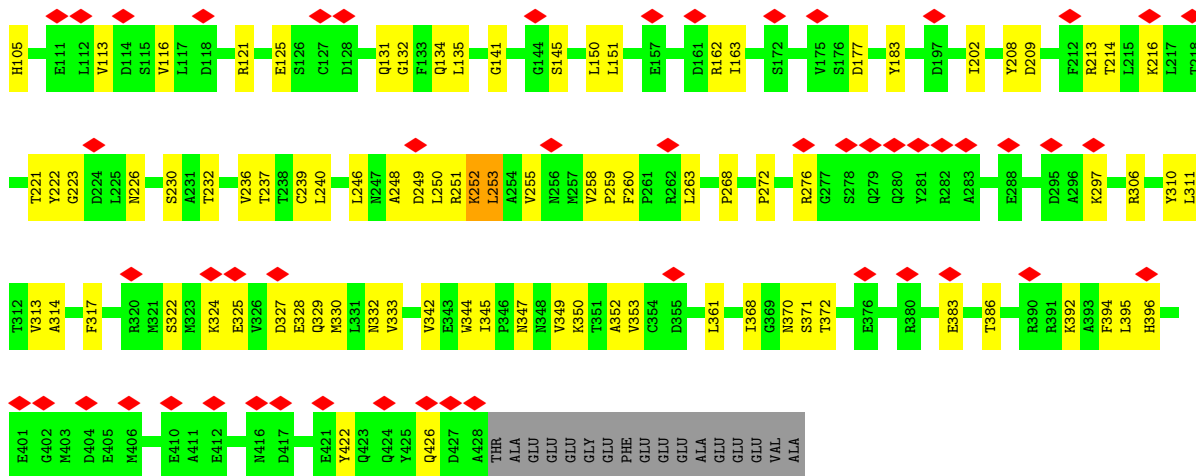


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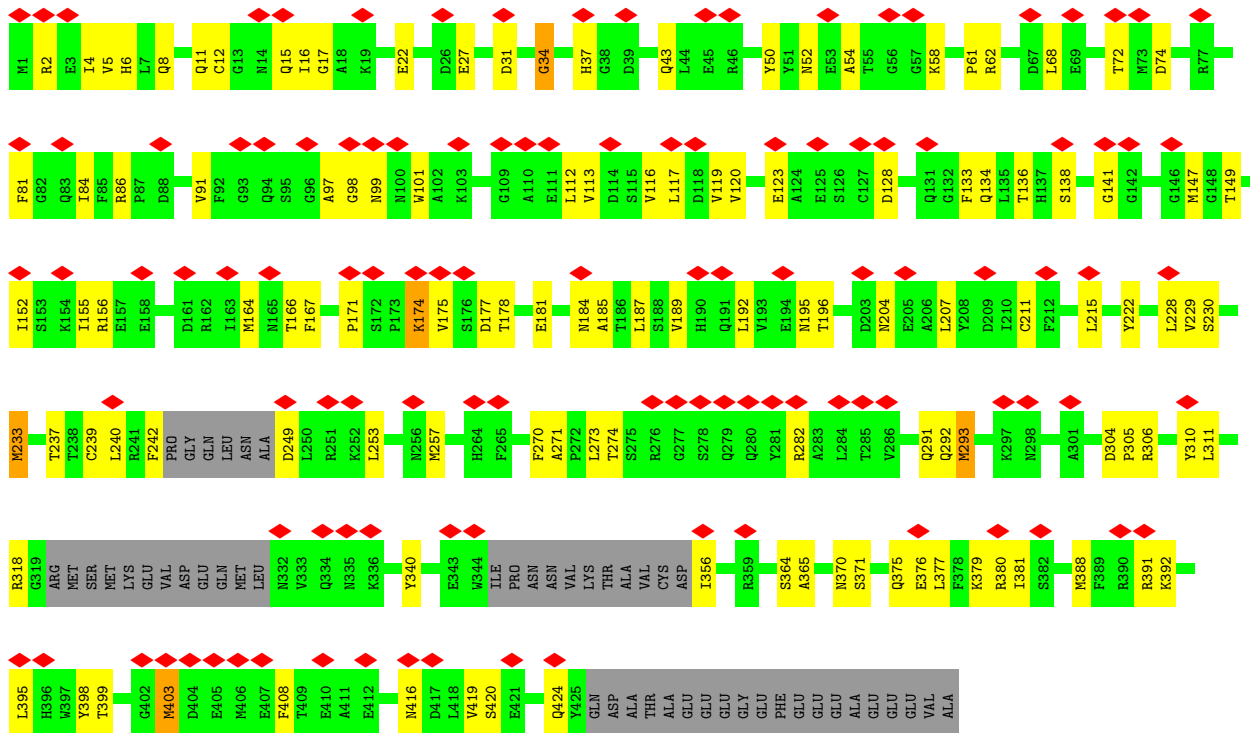


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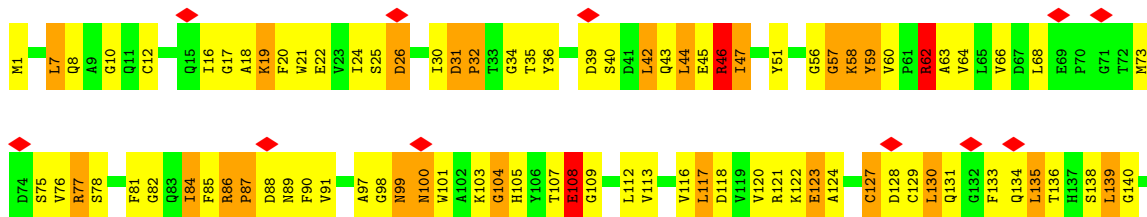


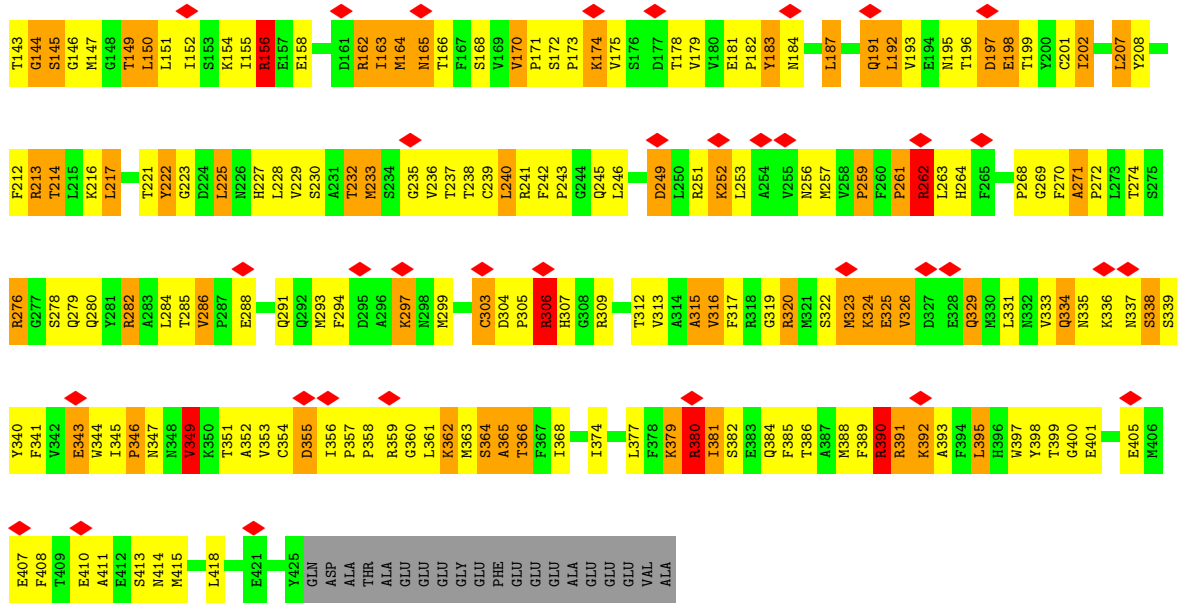


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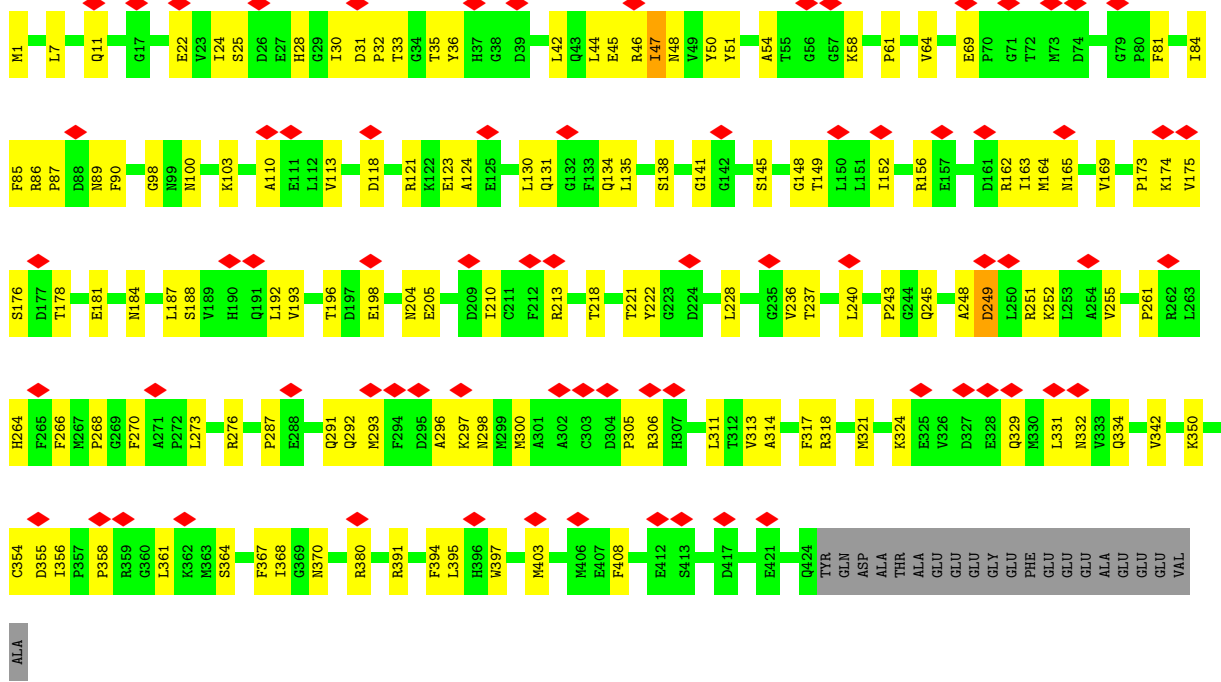


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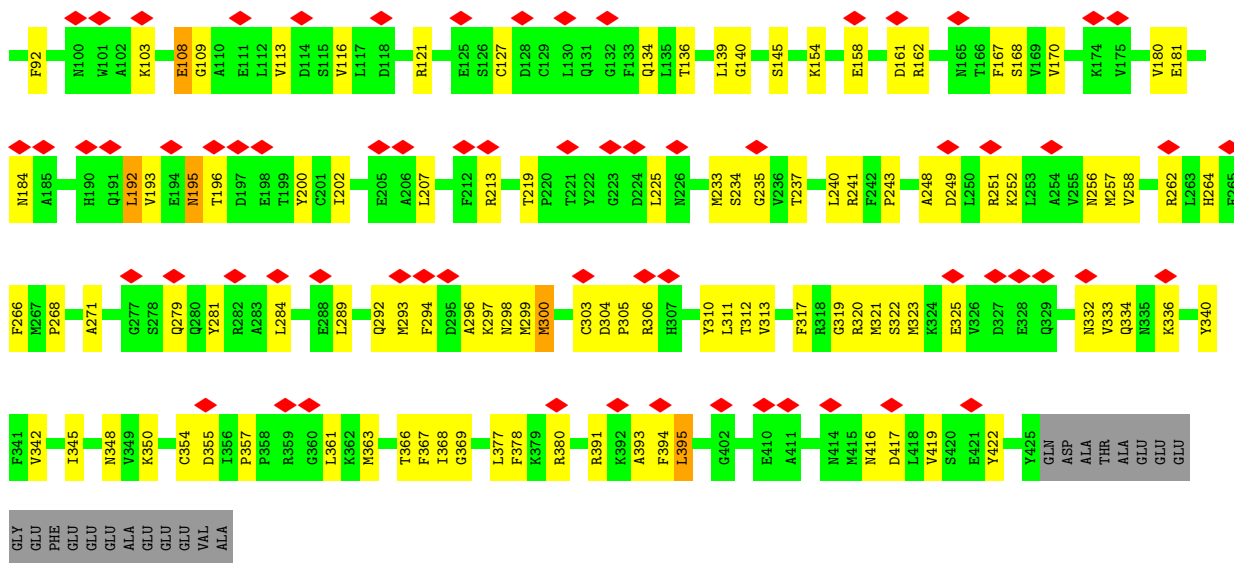


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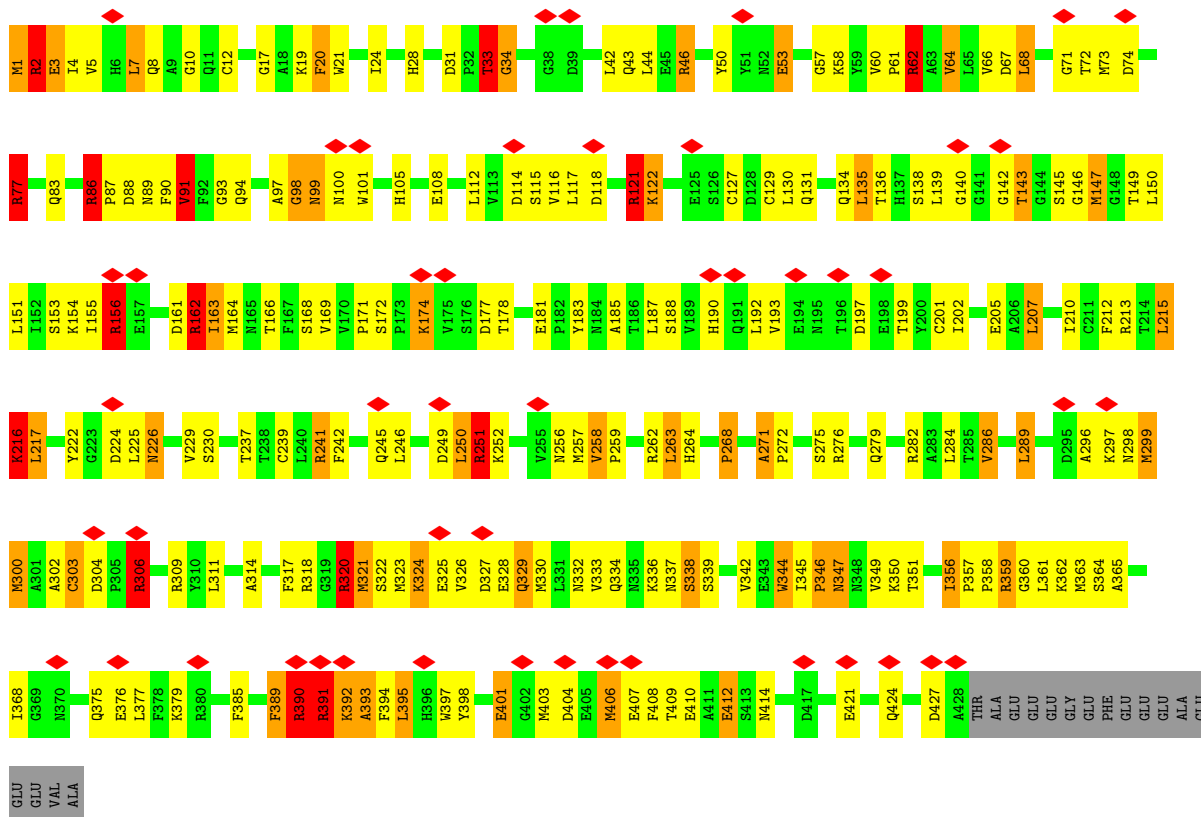


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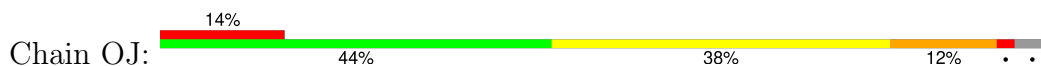


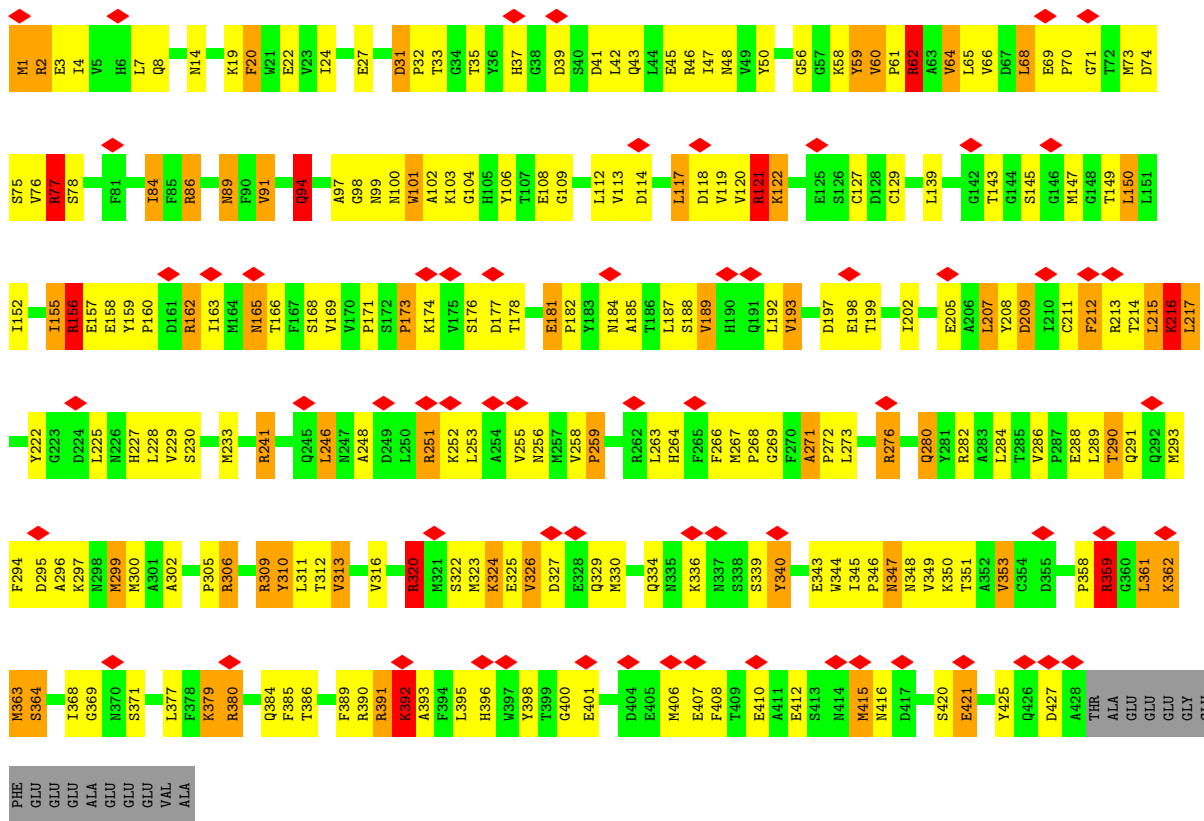


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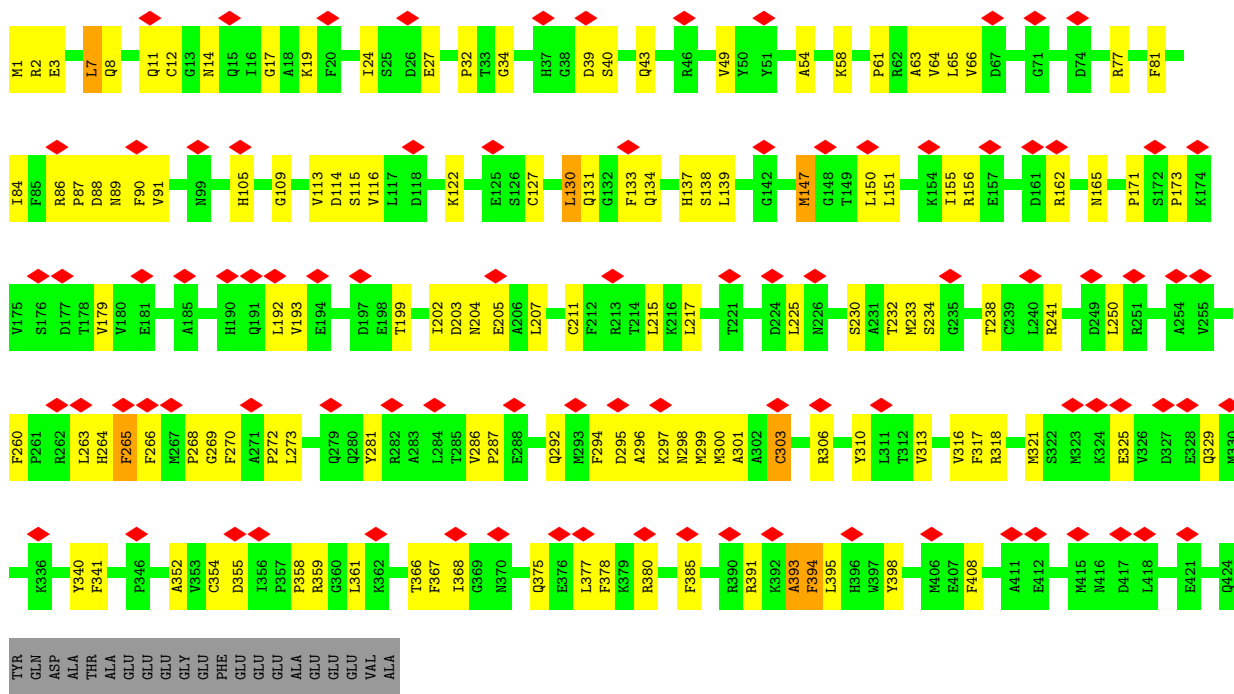


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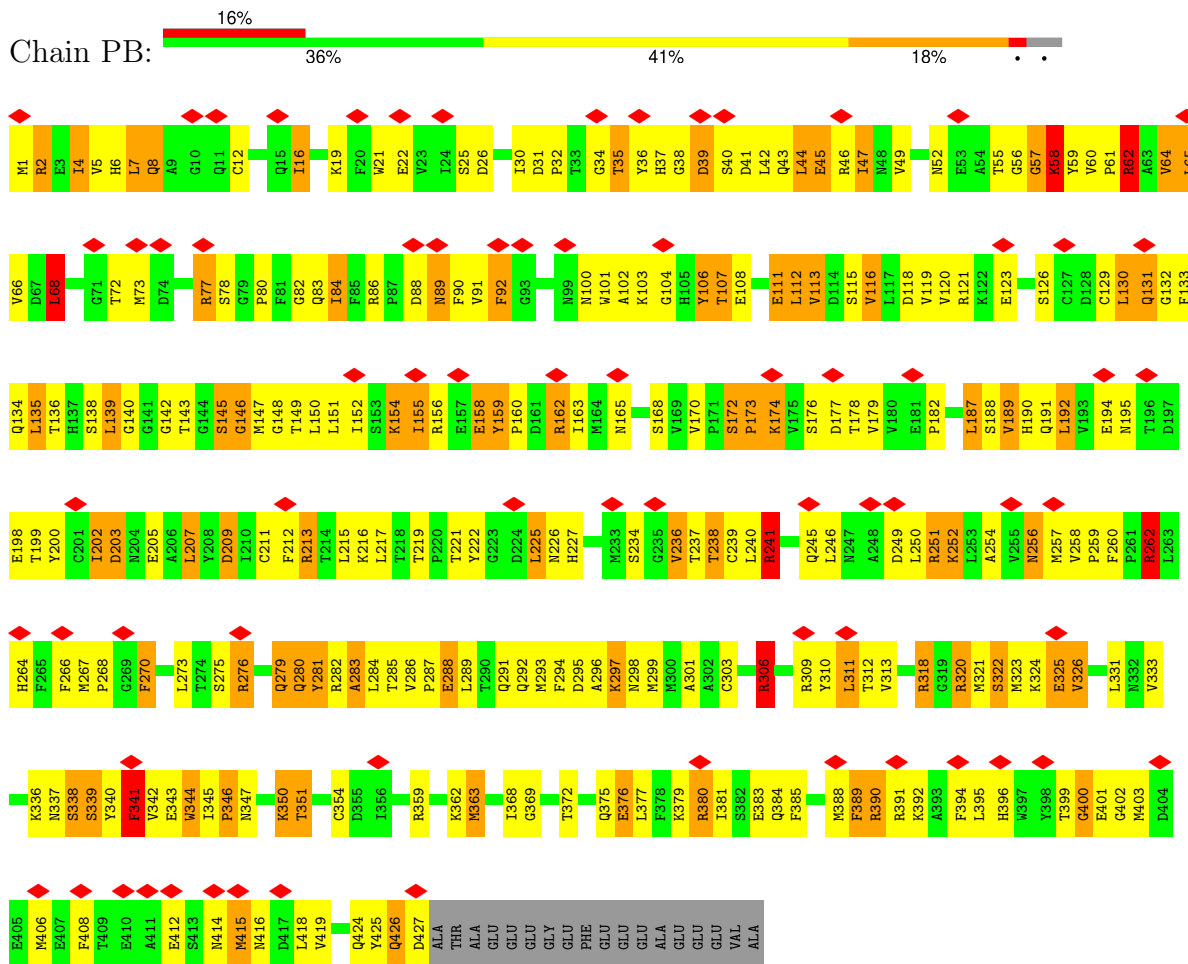




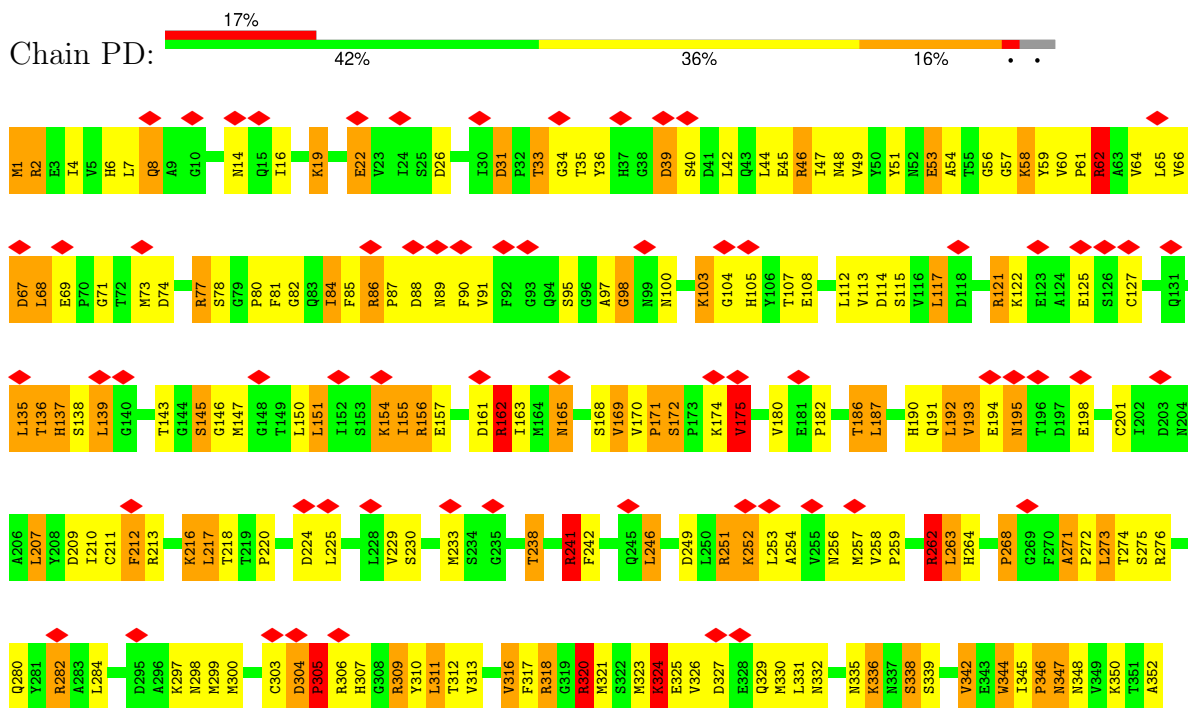
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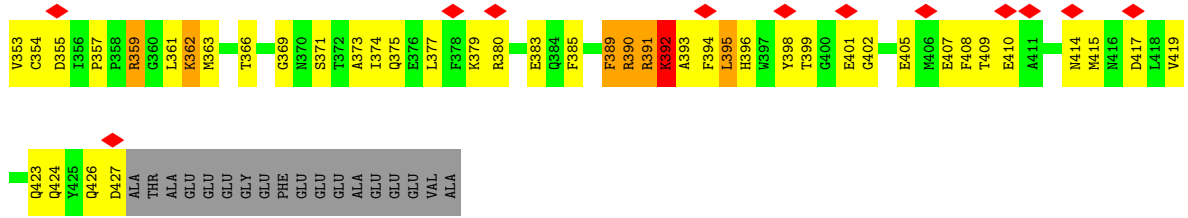


• Molecule 41: Tubulin beta-4B chain

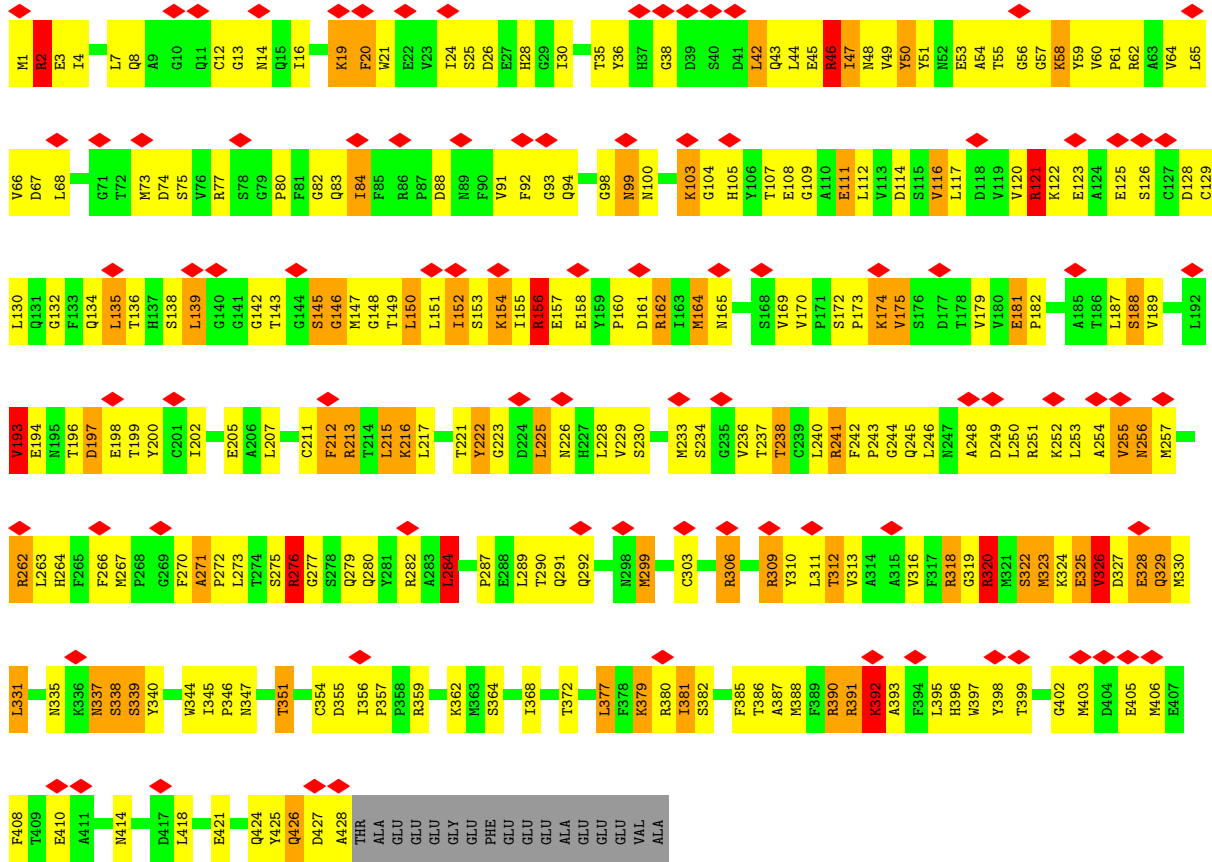


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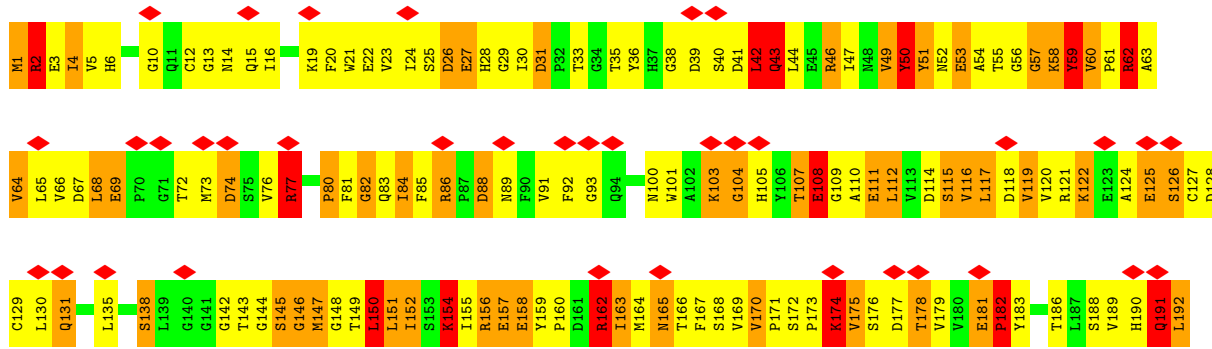
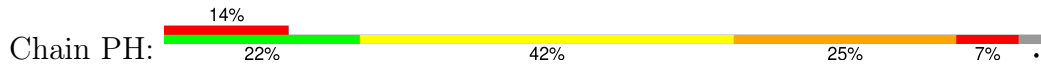


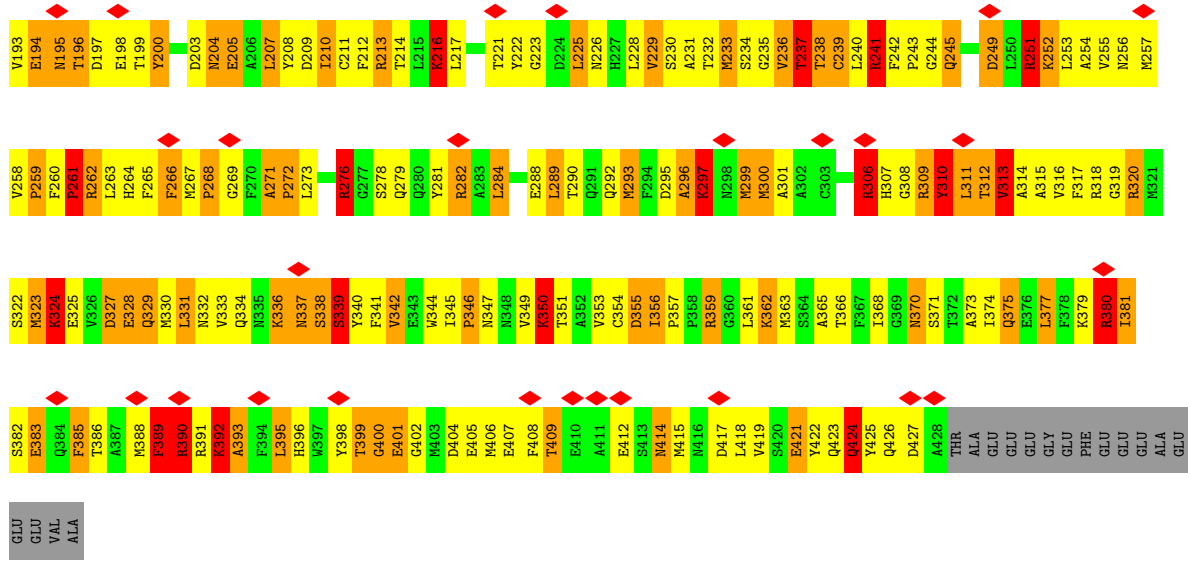


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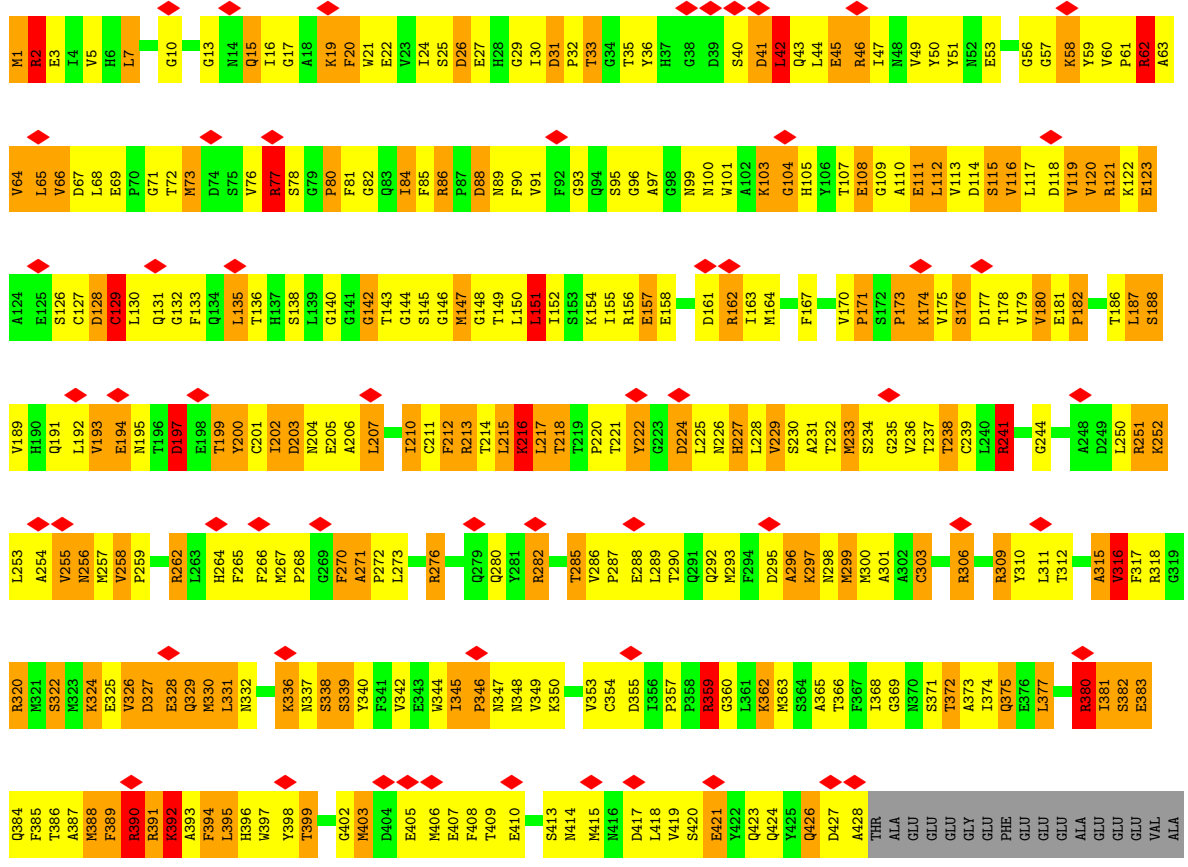
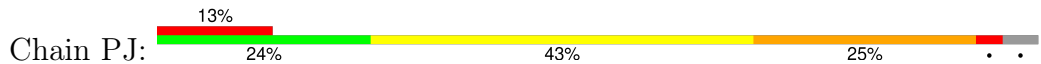


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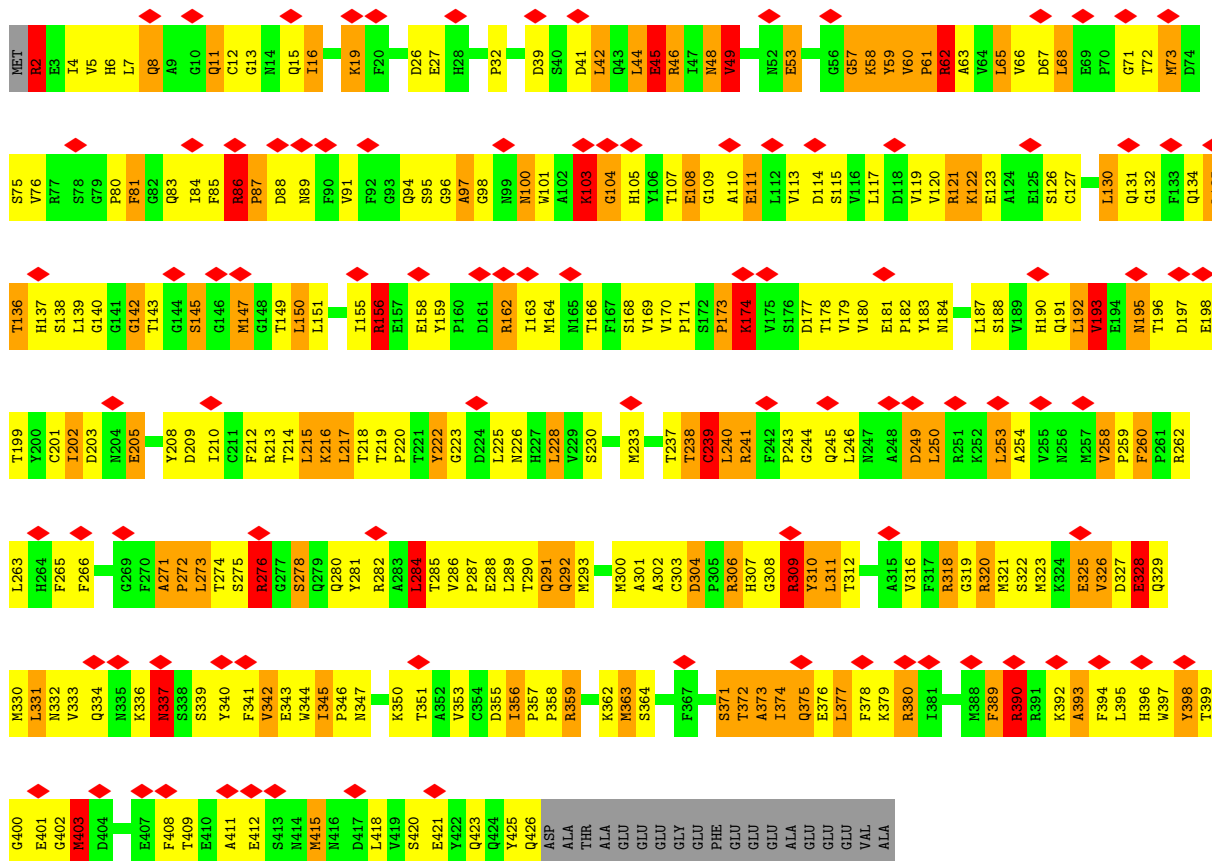


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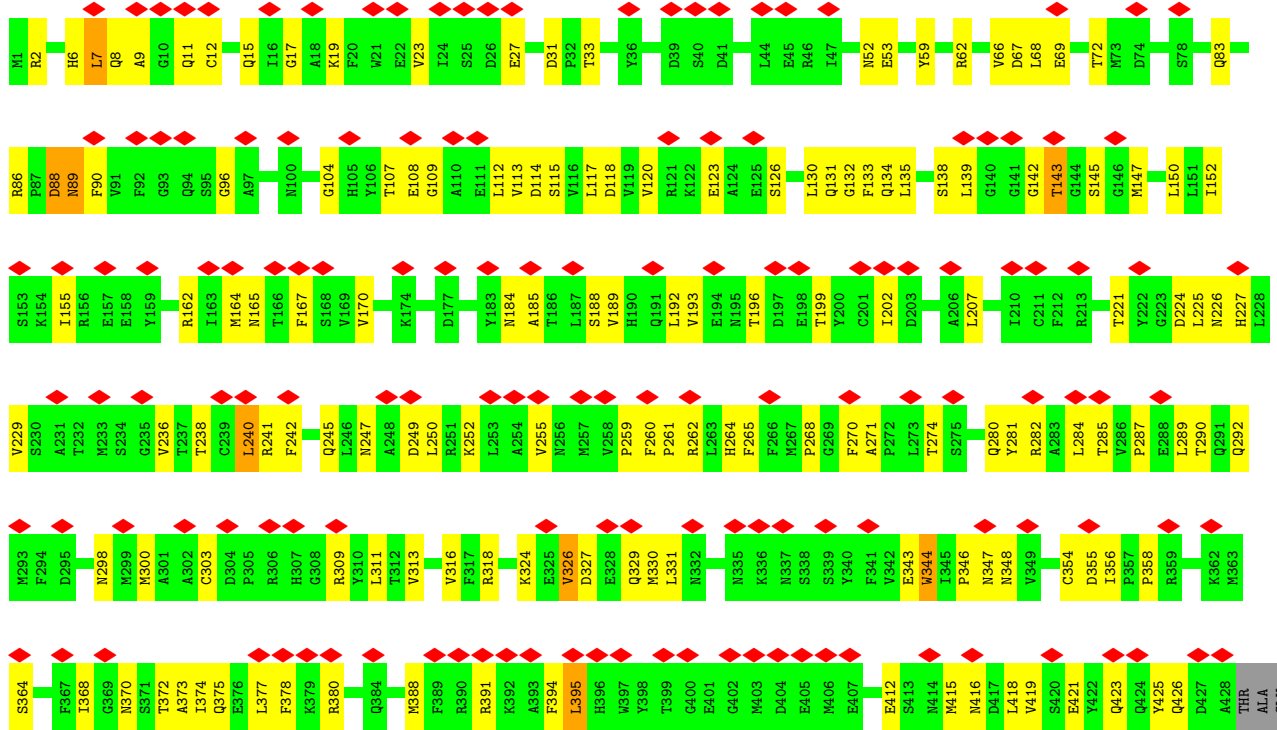


• Molecule 41: Tubulin beta-4B chain



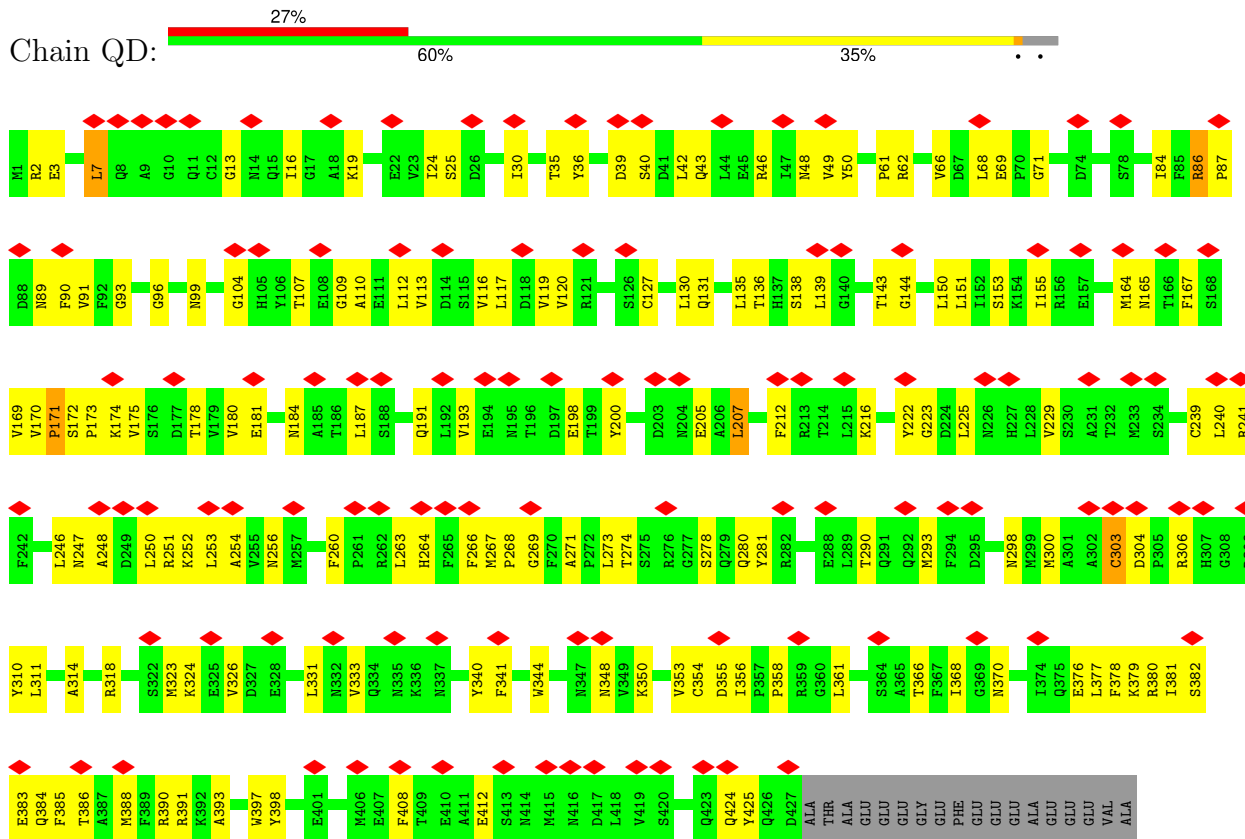


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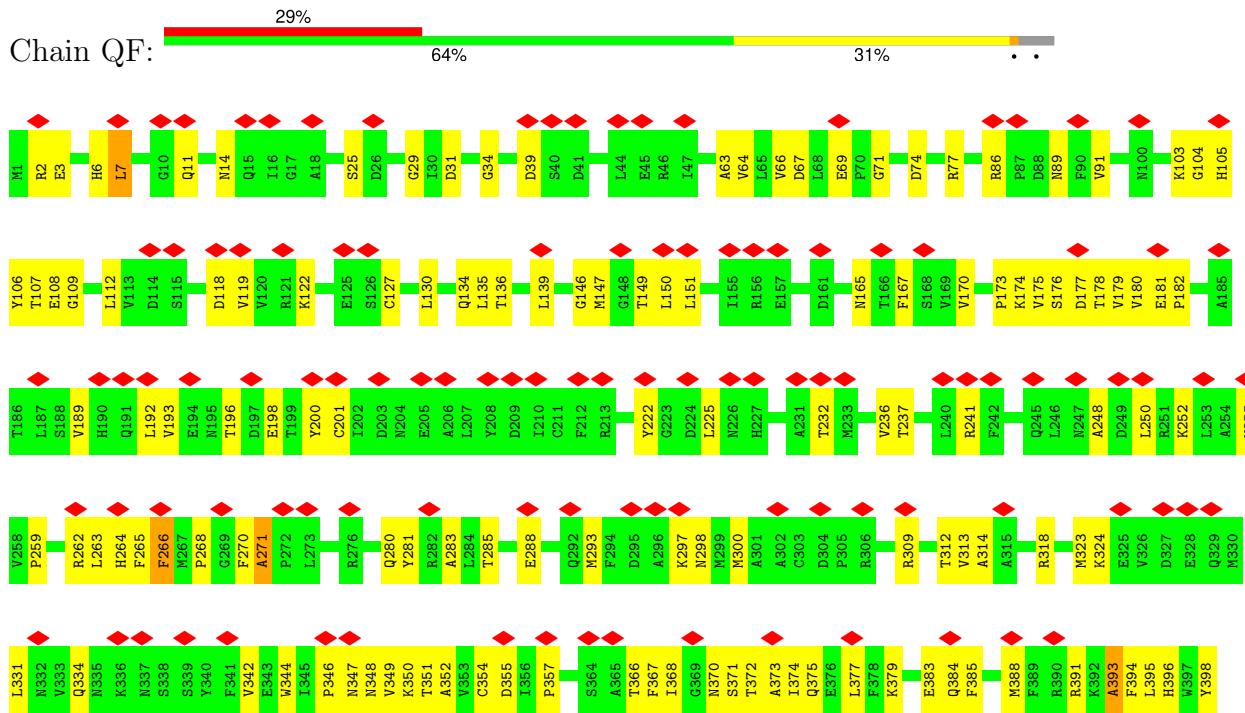


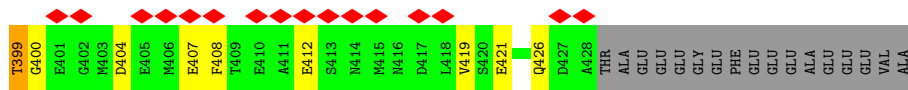
GLU
GLU
GLY
GLU
PHE
GLU
GLU
GLU
ALA
GLU
GLU
VAL
ALA

• Molecule 41: Tubulin beta-4B chain

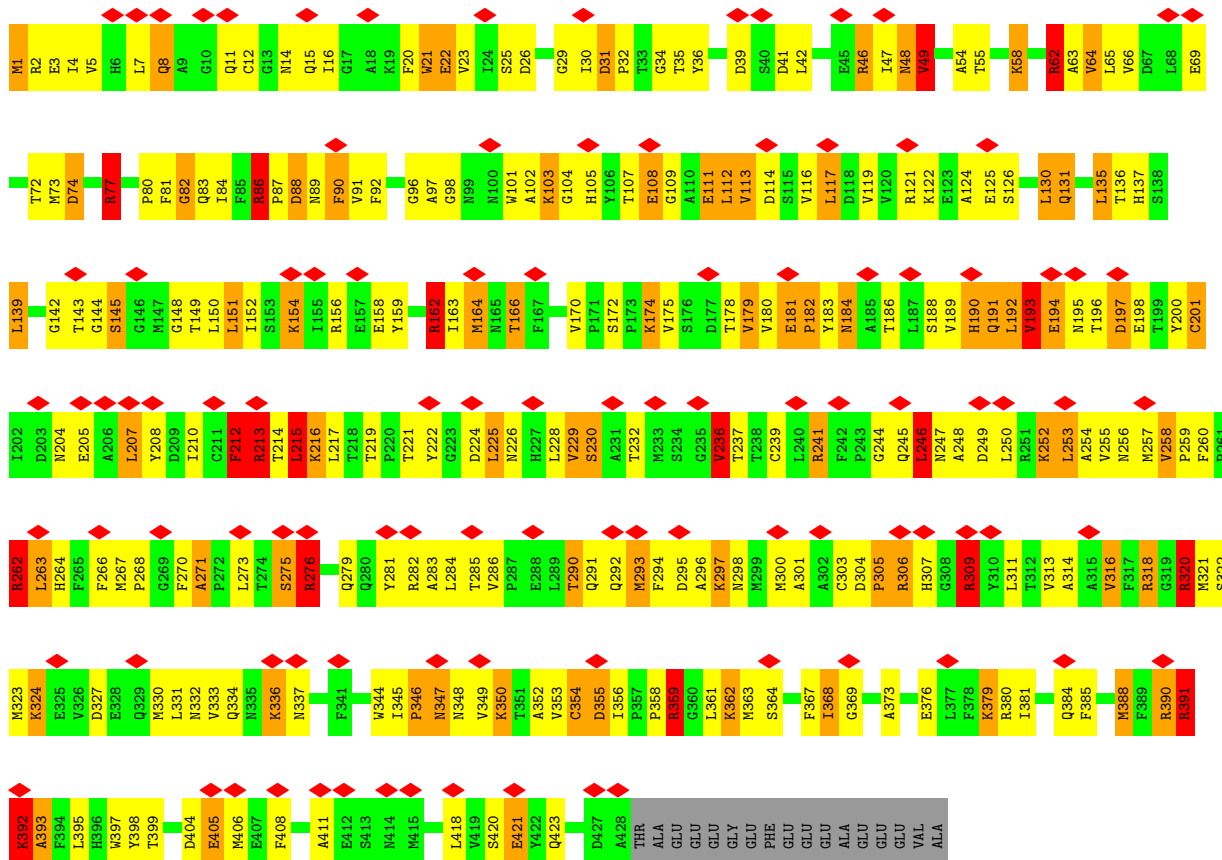


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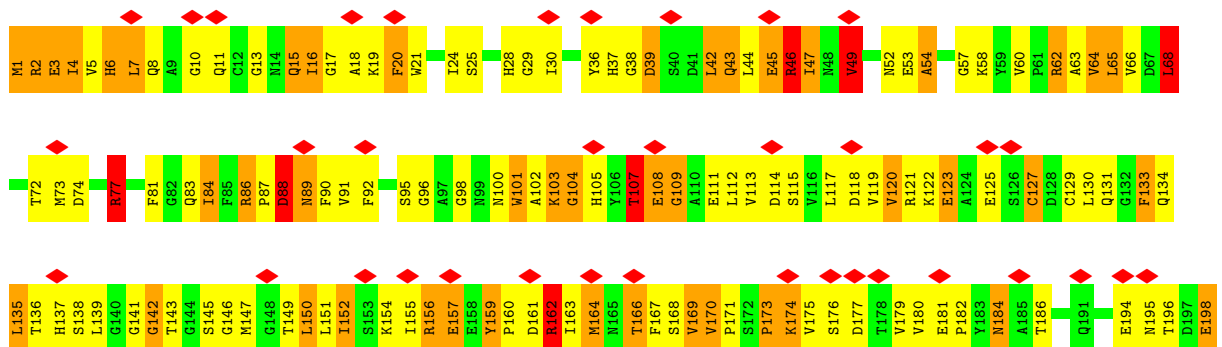


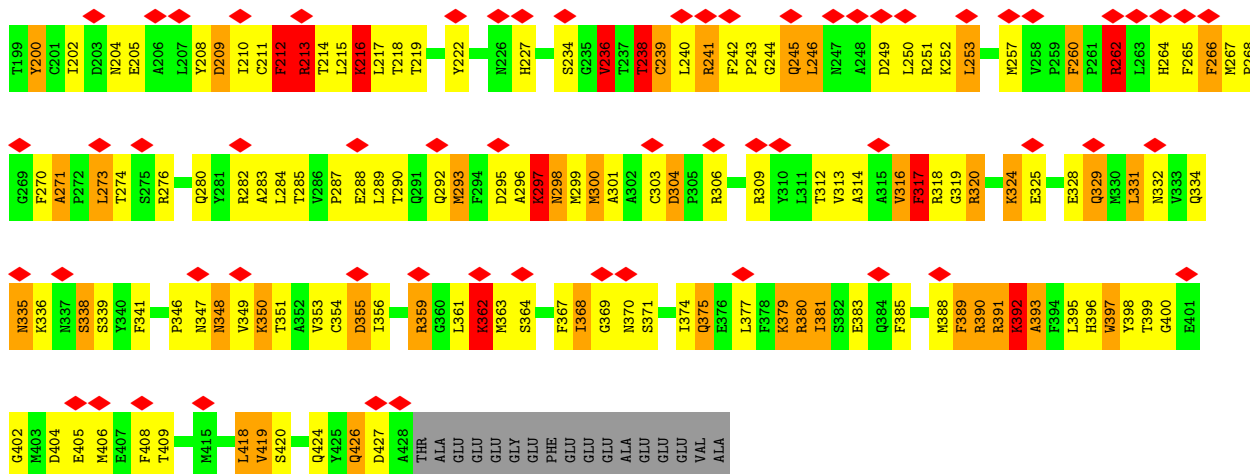


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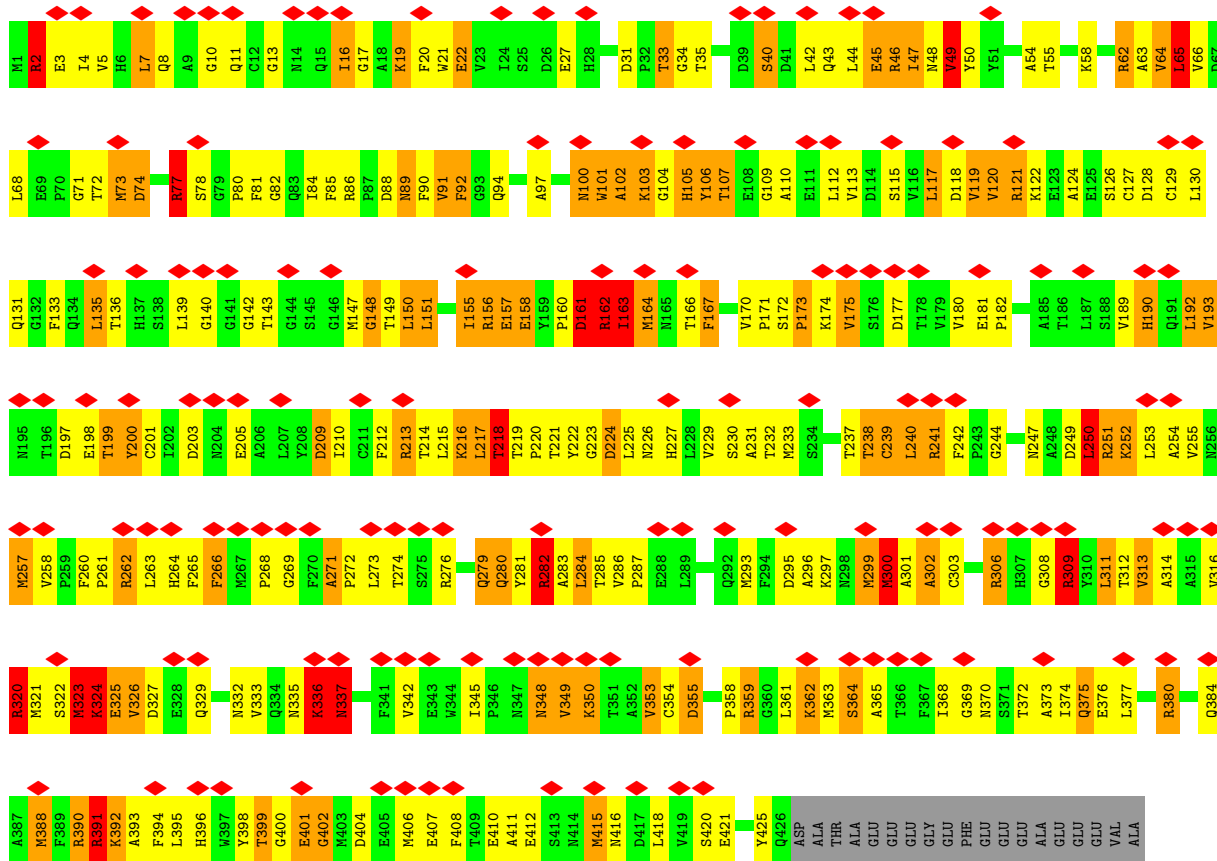


• Molecule 41: Tubulin beta-4B chain

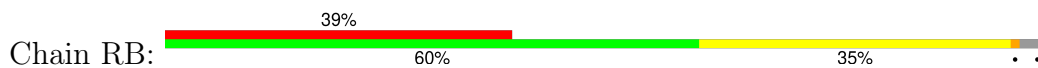


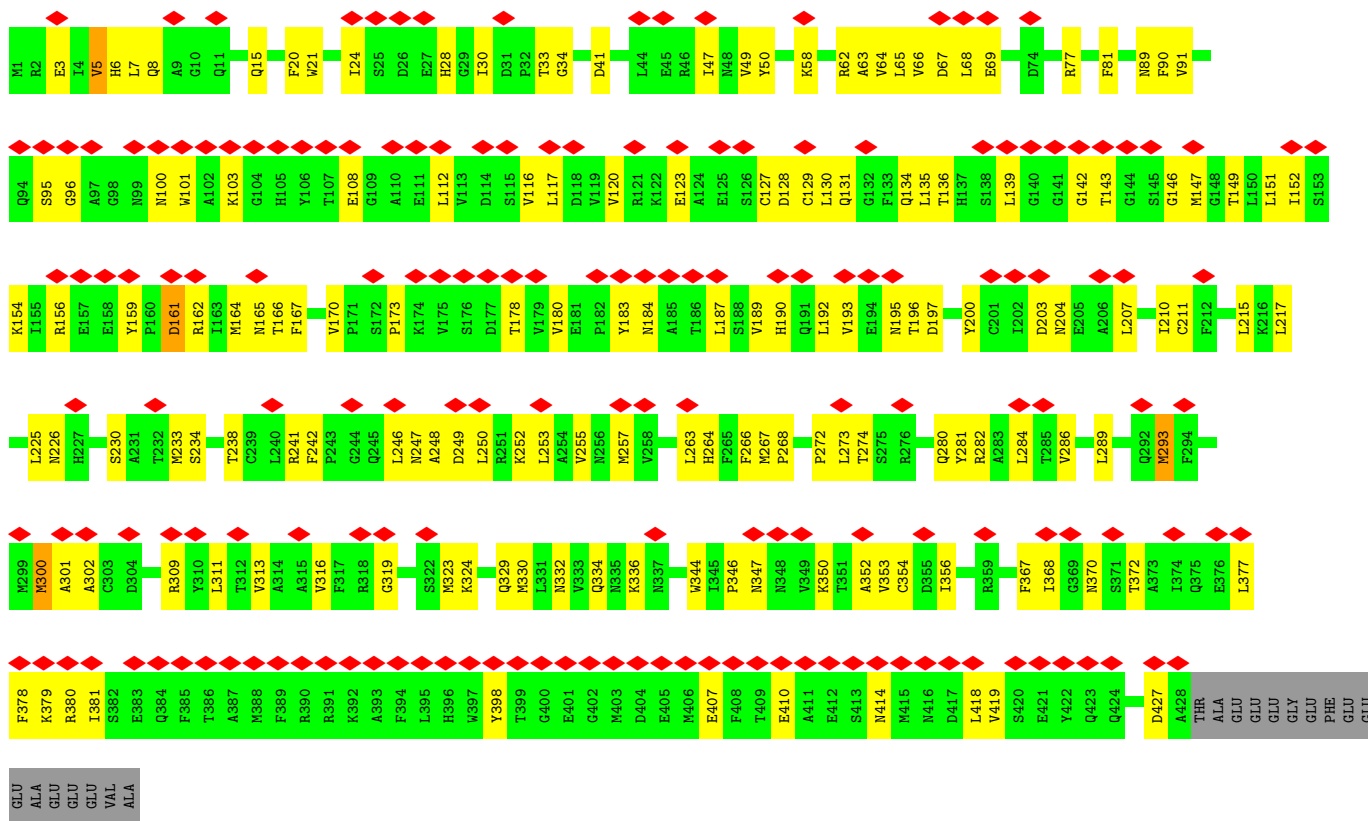


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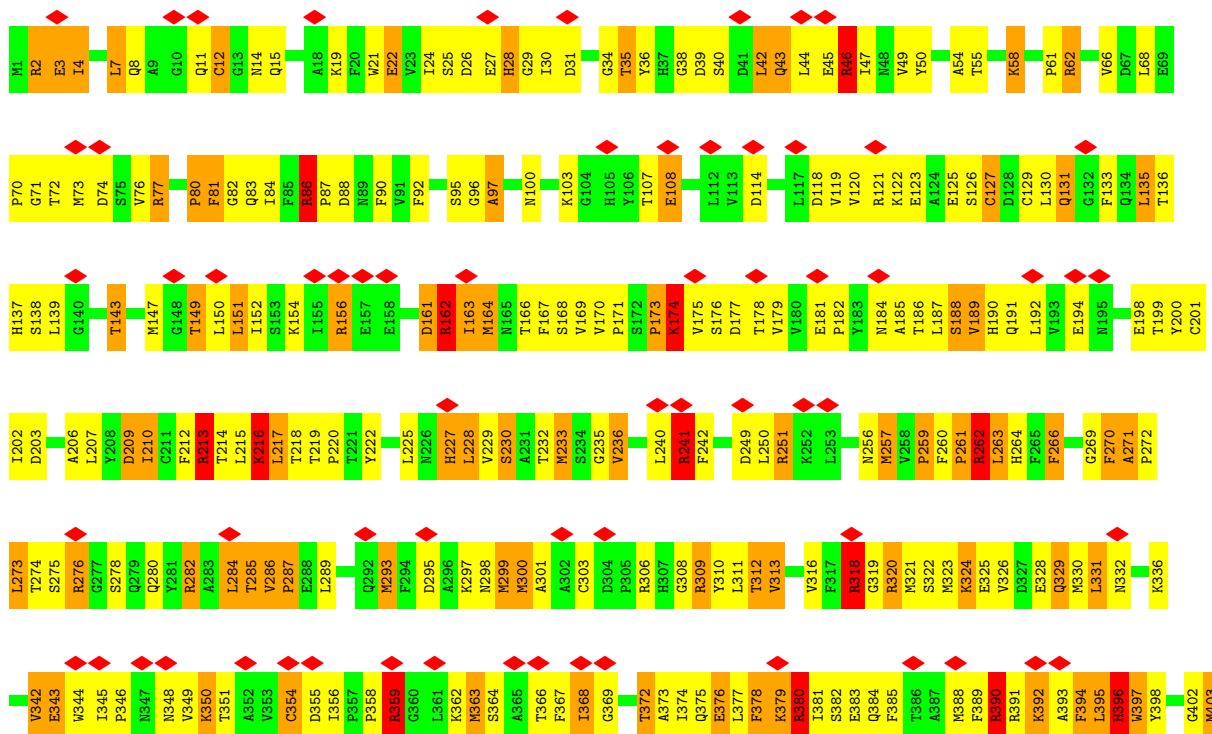
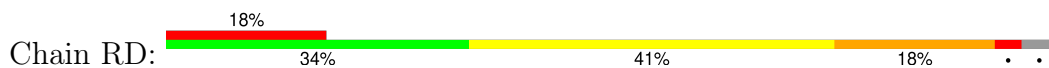


• Molecule 41: Tubulin beta-4B chain



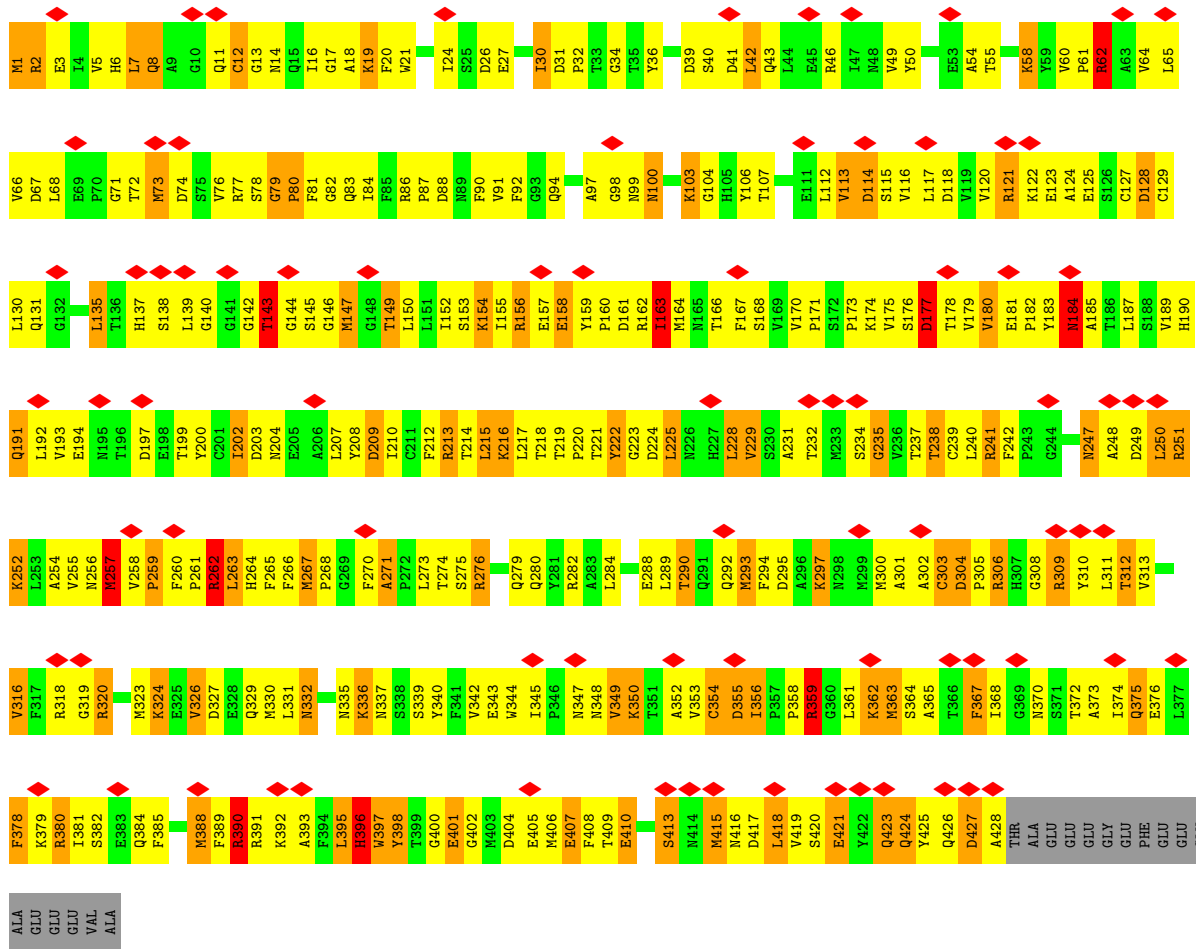


• Molecule 41: Tubulin beta-4B chain

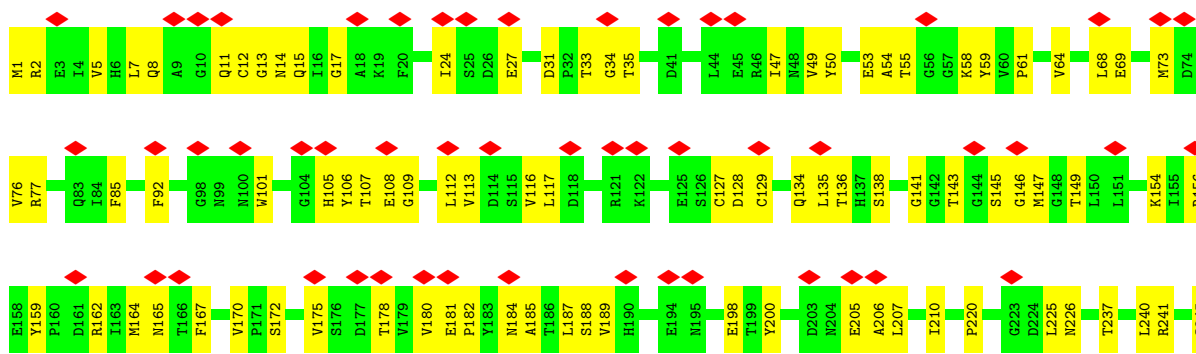


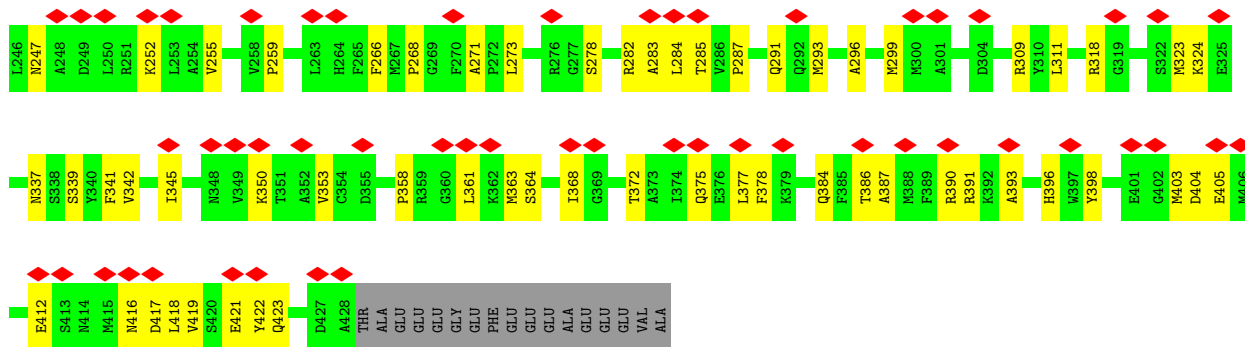


• Molecule 41: Tubulin beta-4B chain

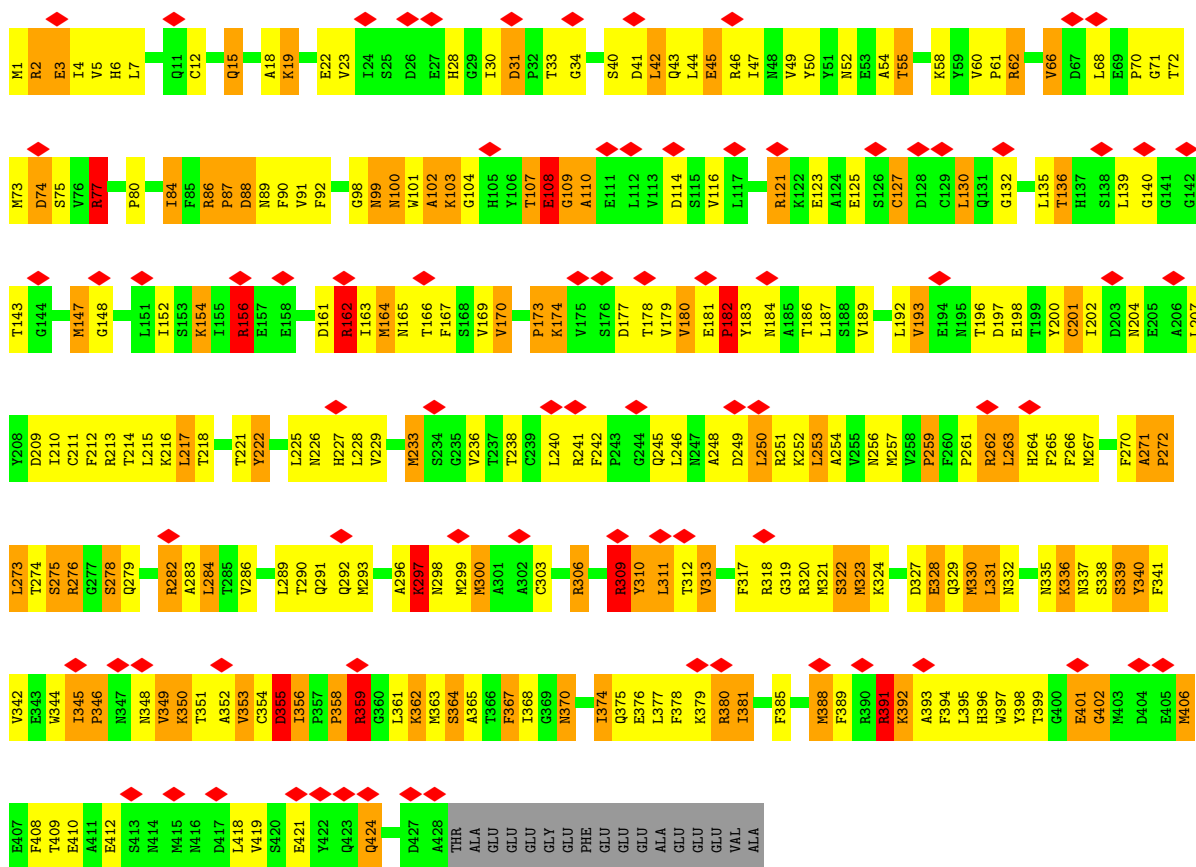


• Molecule 41: Tubulin beta-4B chain

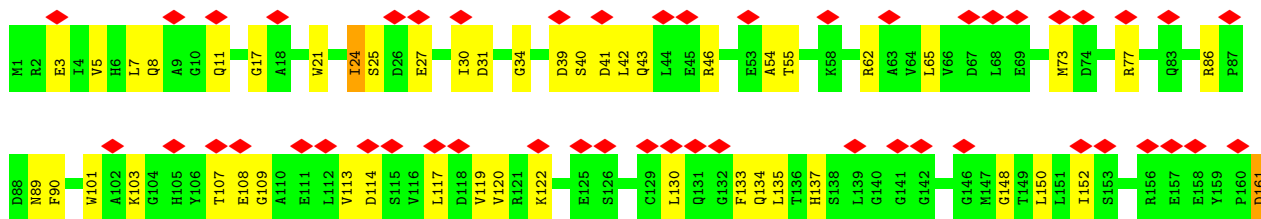


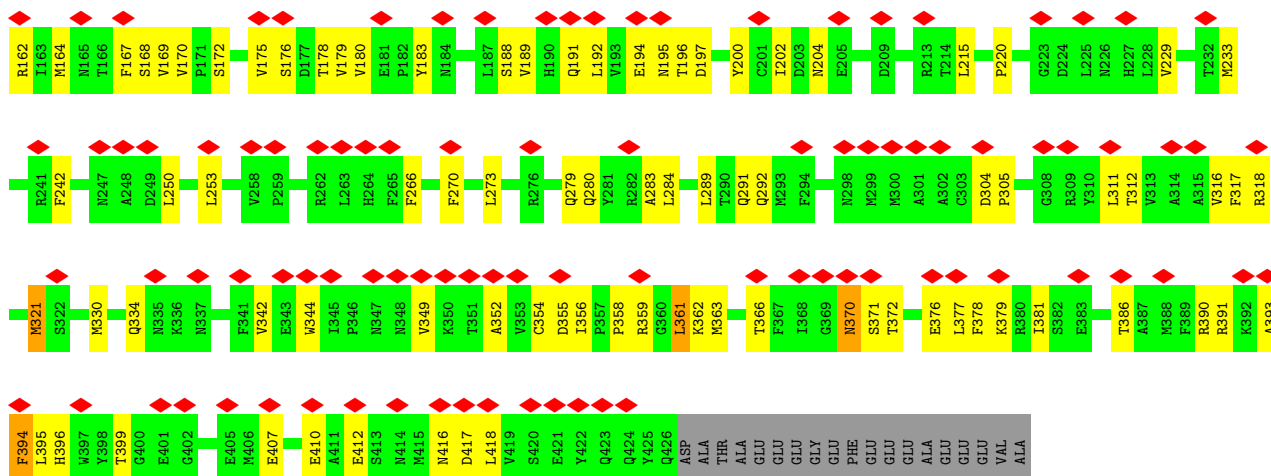


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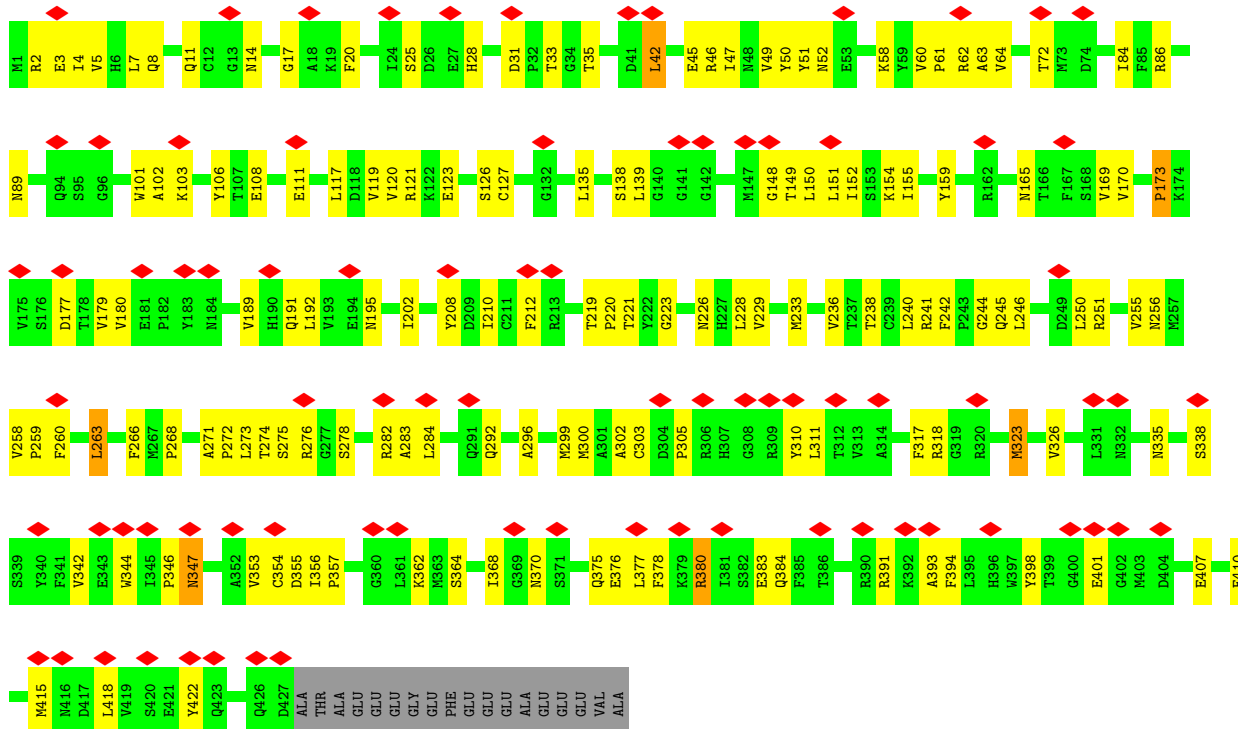


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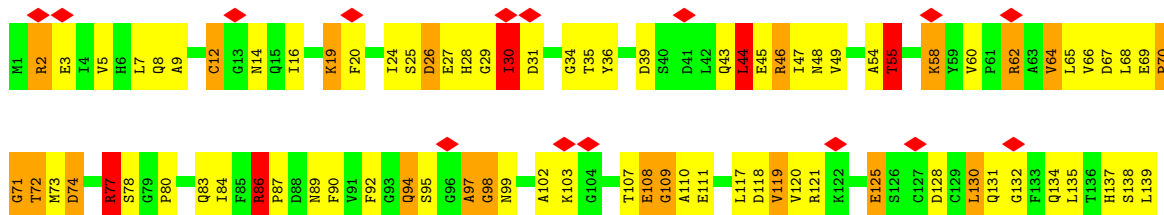
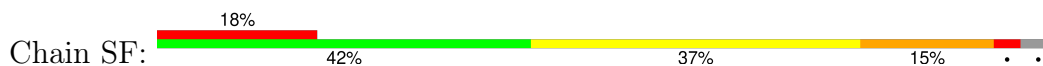


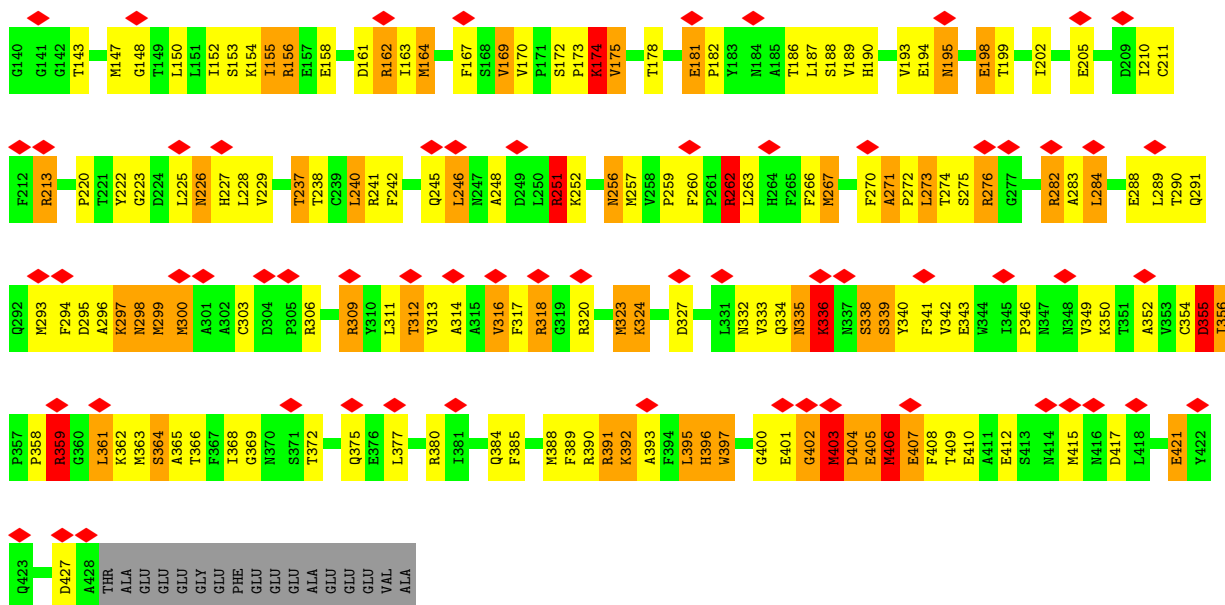


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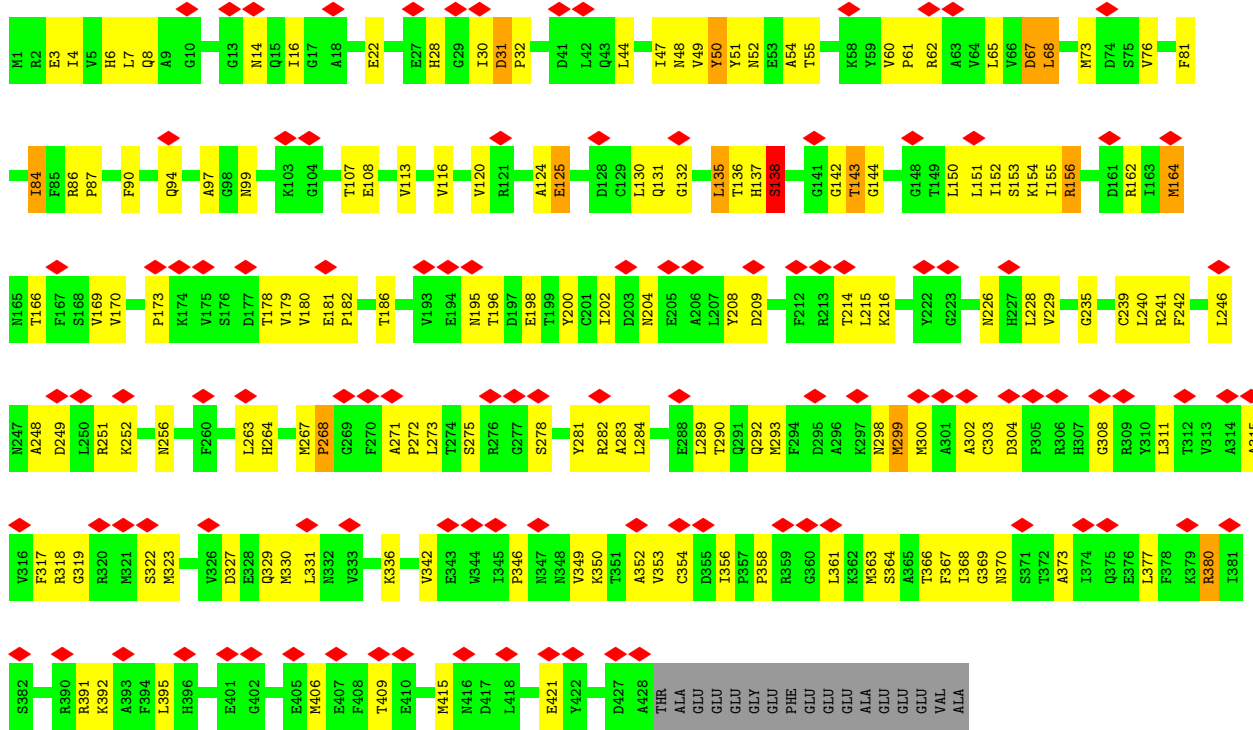


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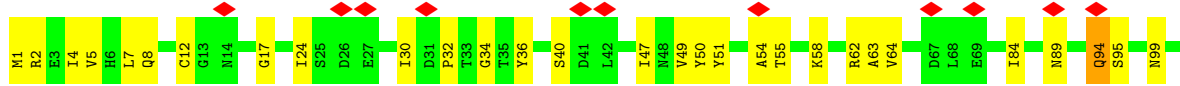


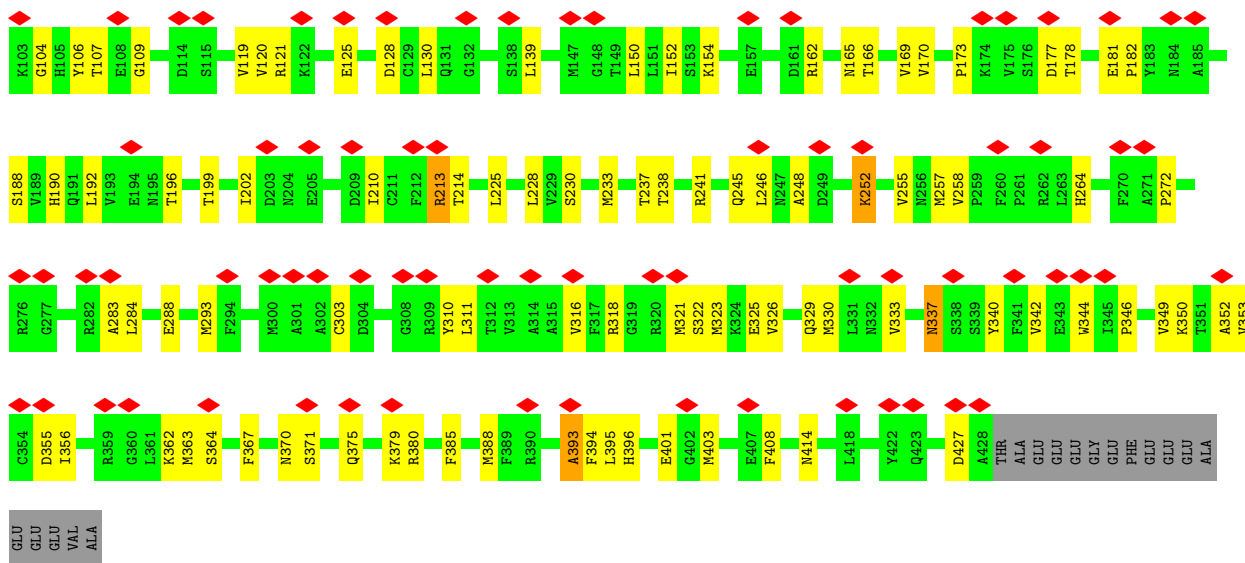


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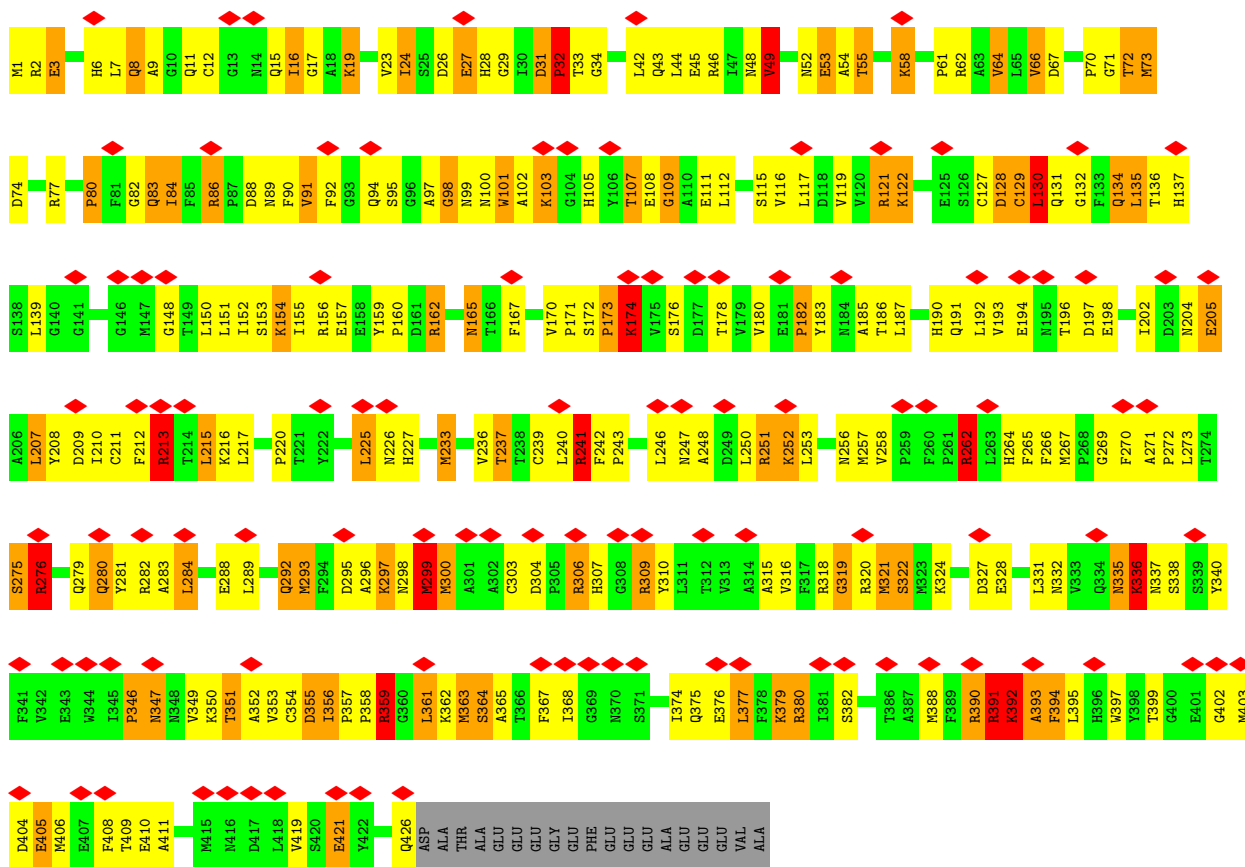


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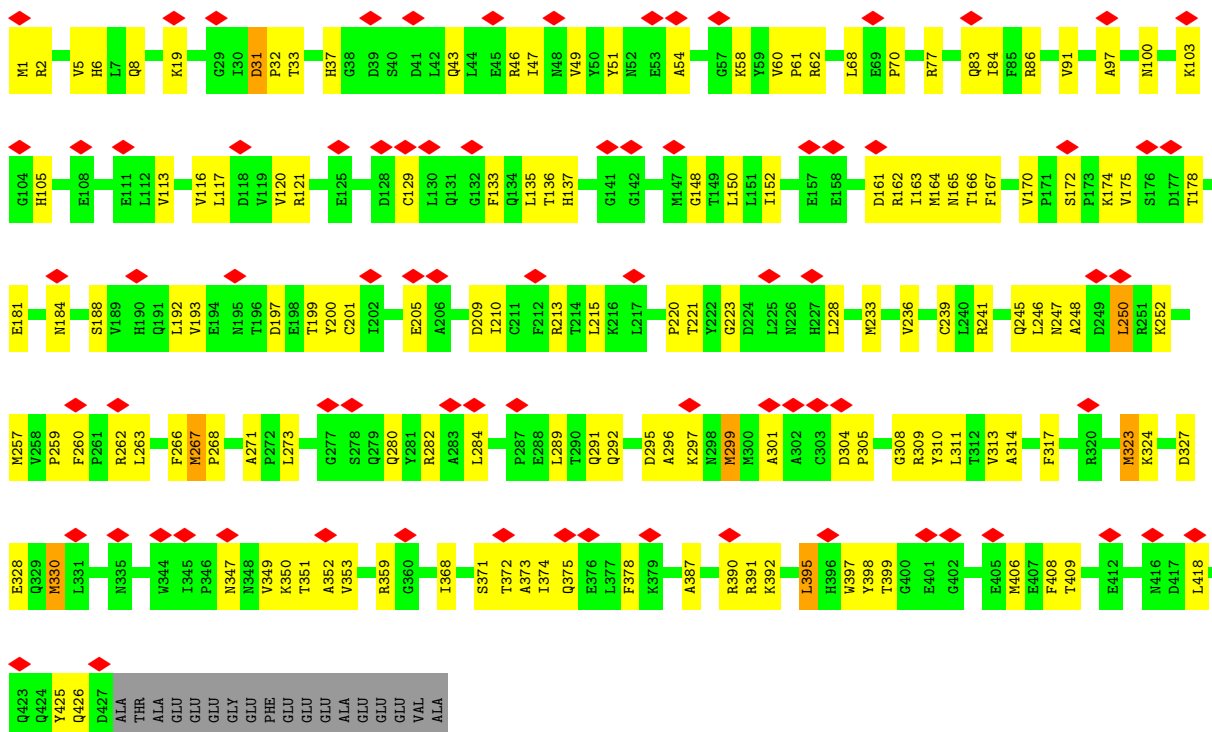


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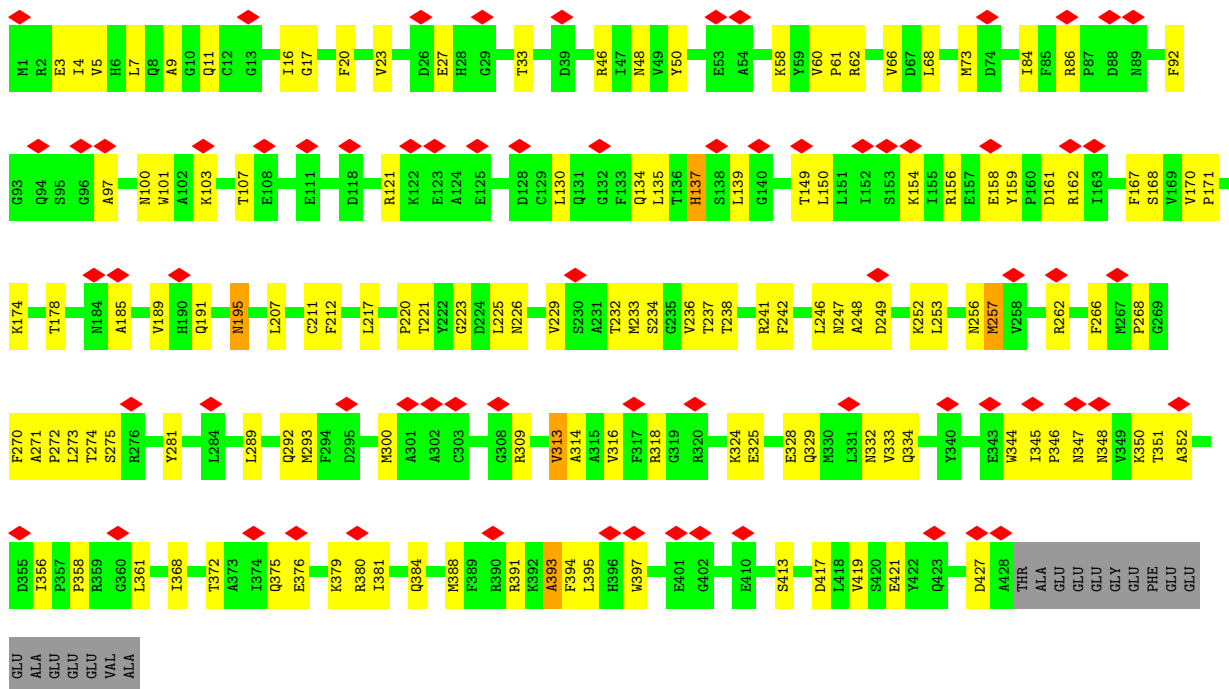


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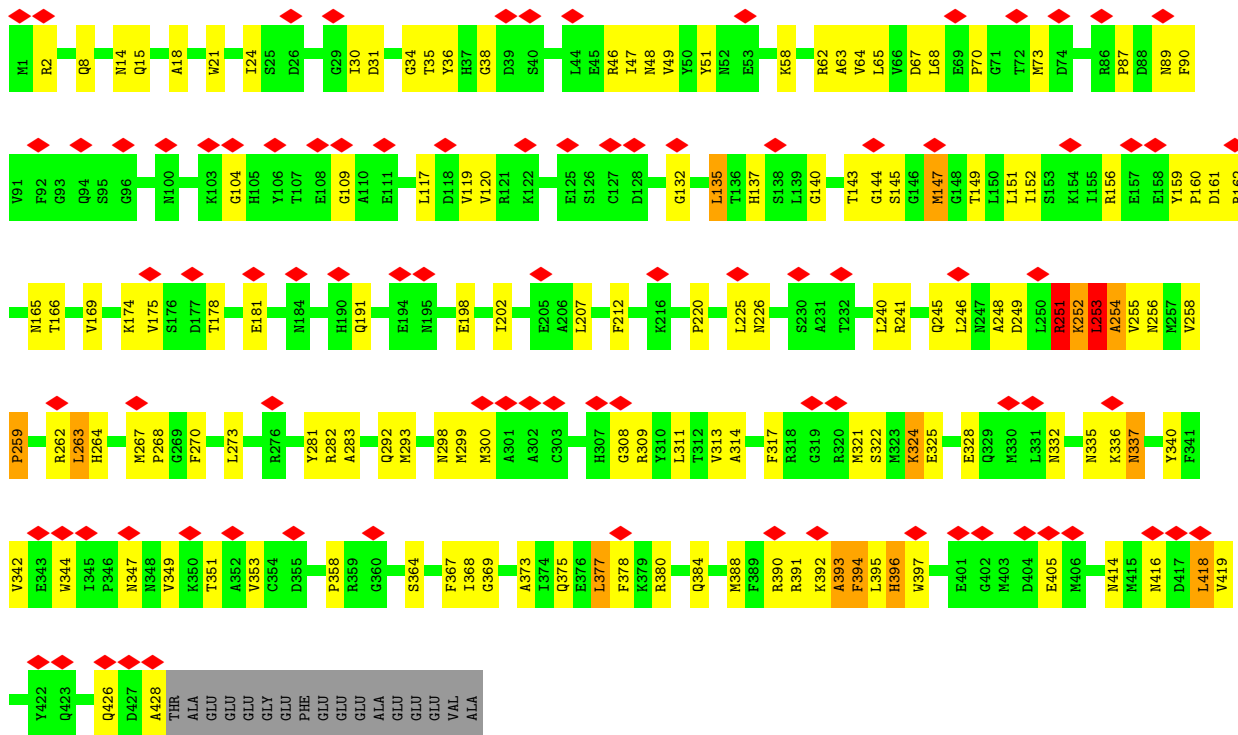


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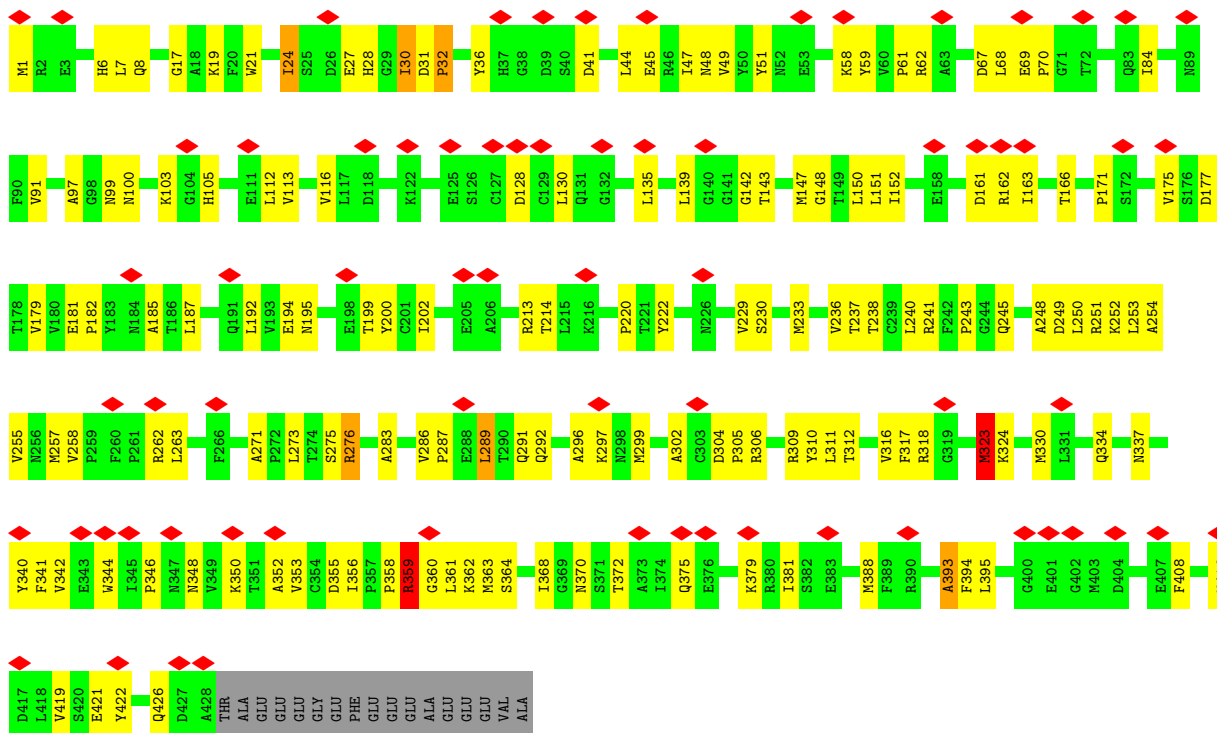


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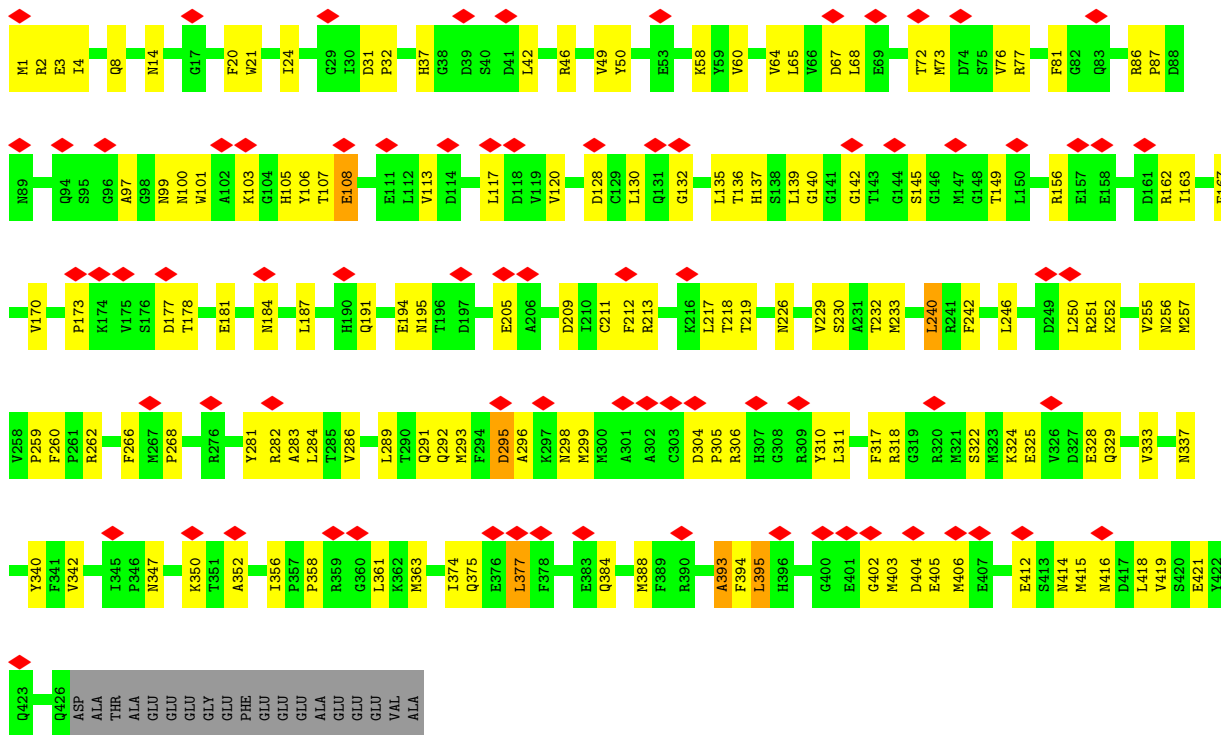


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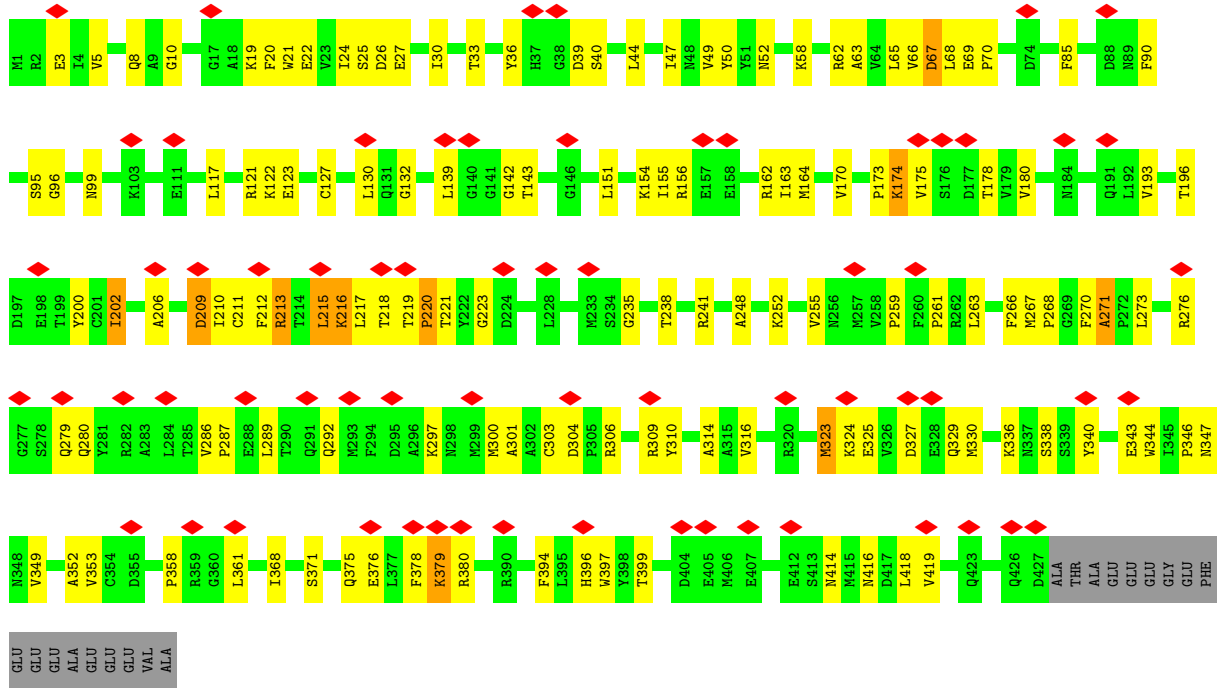


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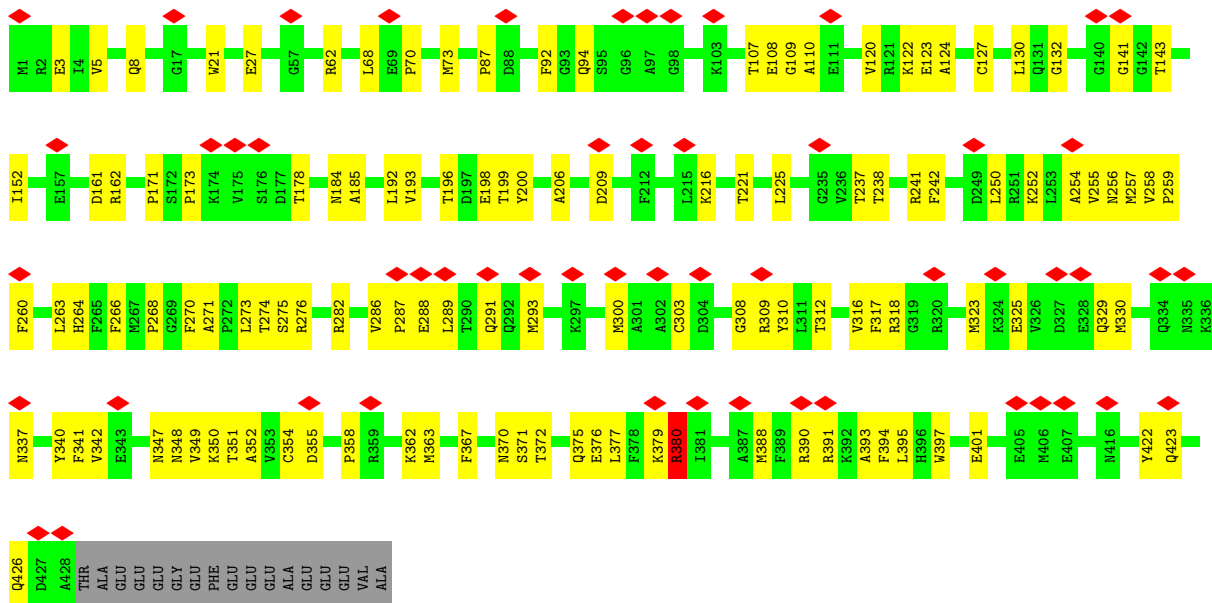


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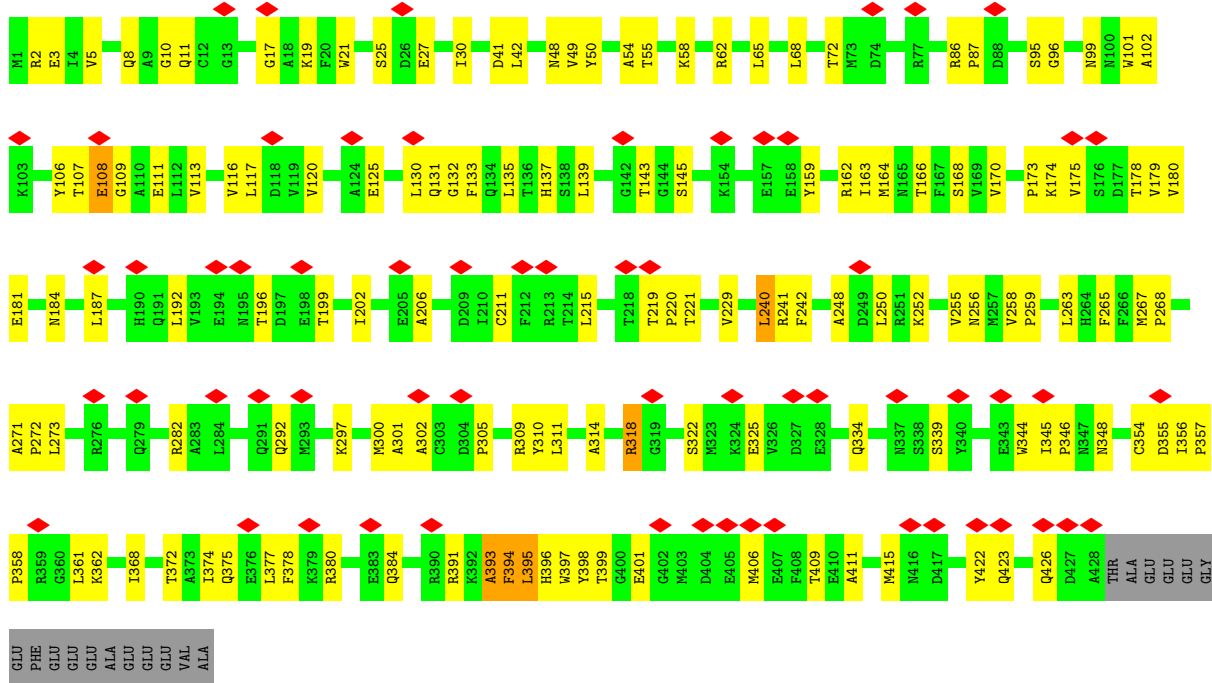


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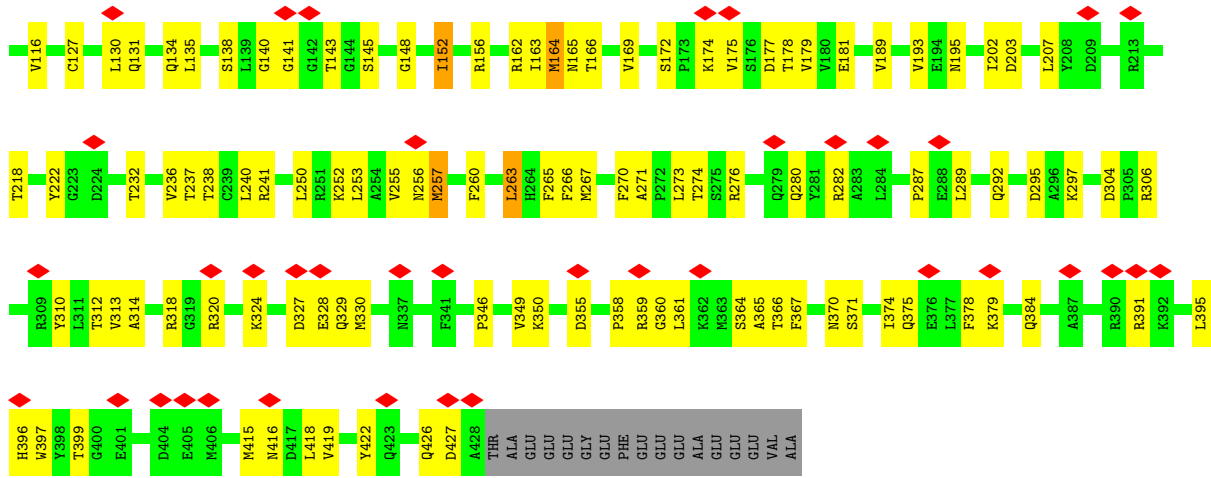


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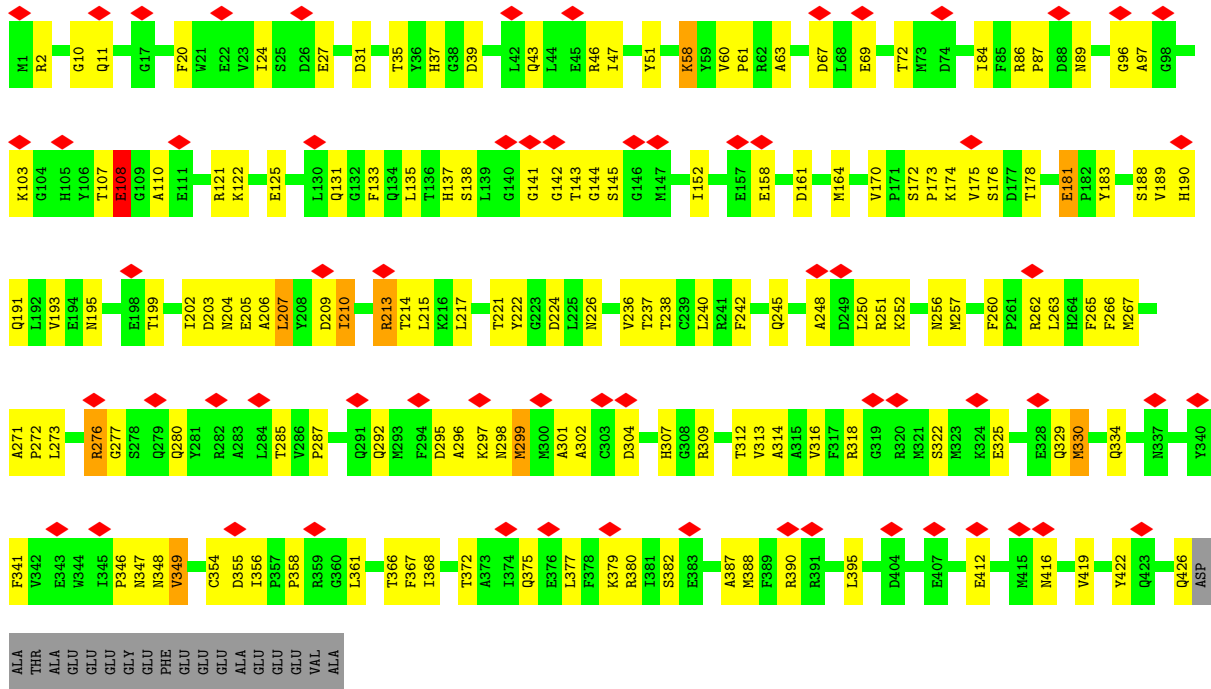


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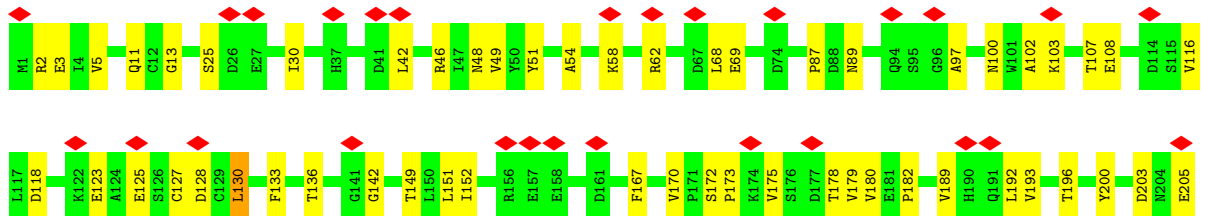


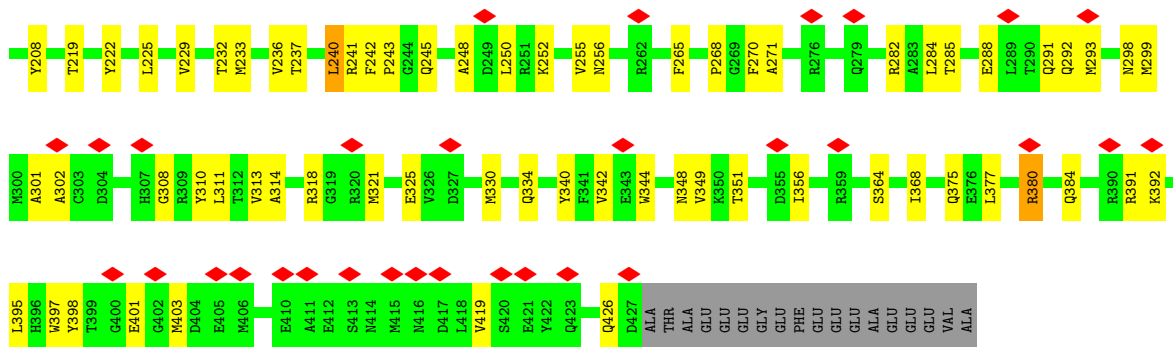


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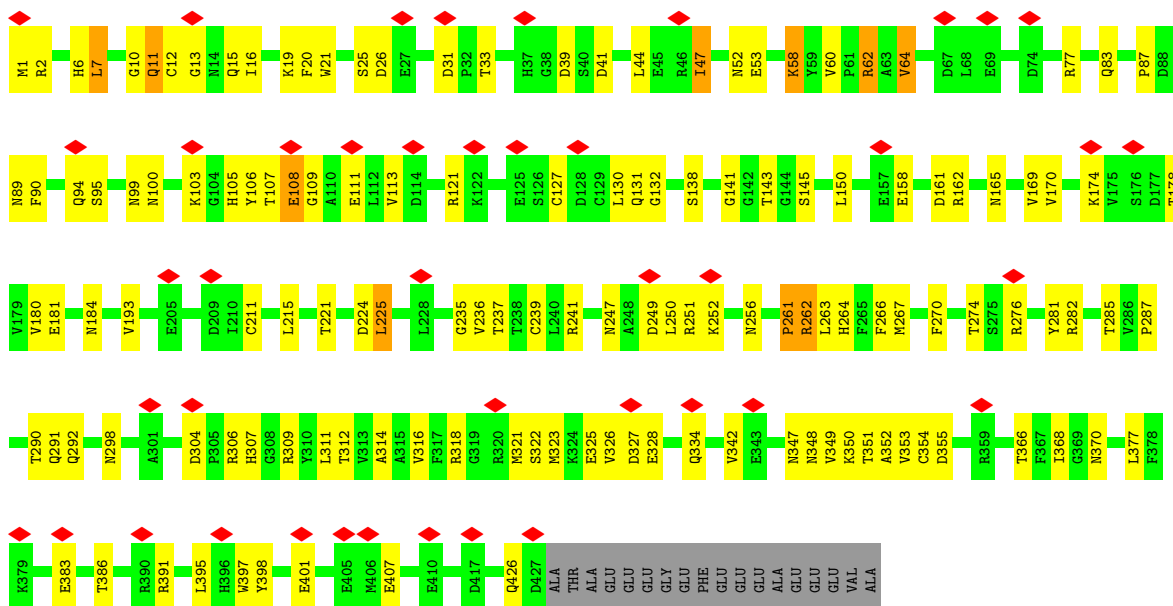


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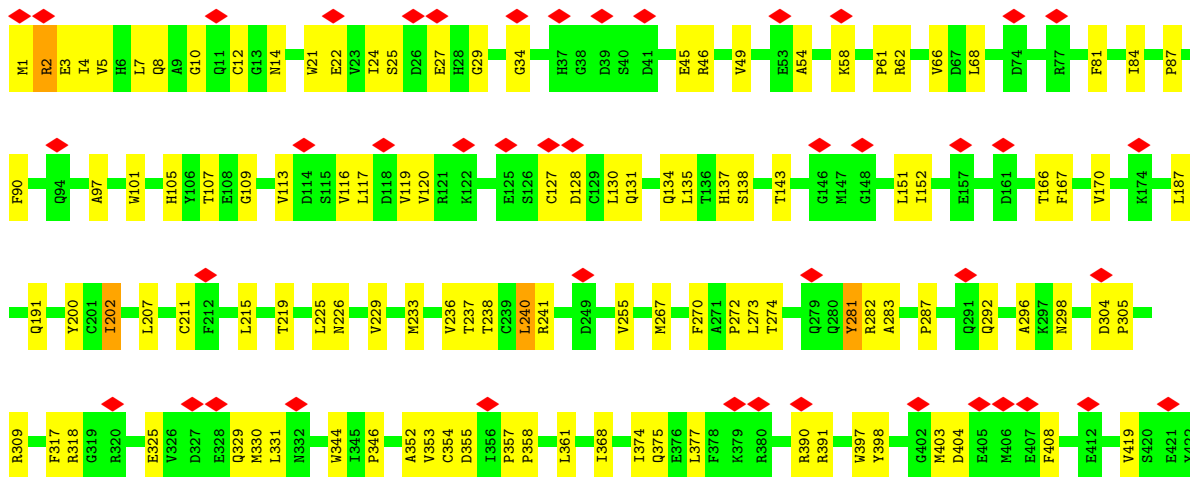


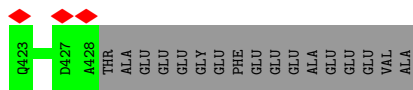


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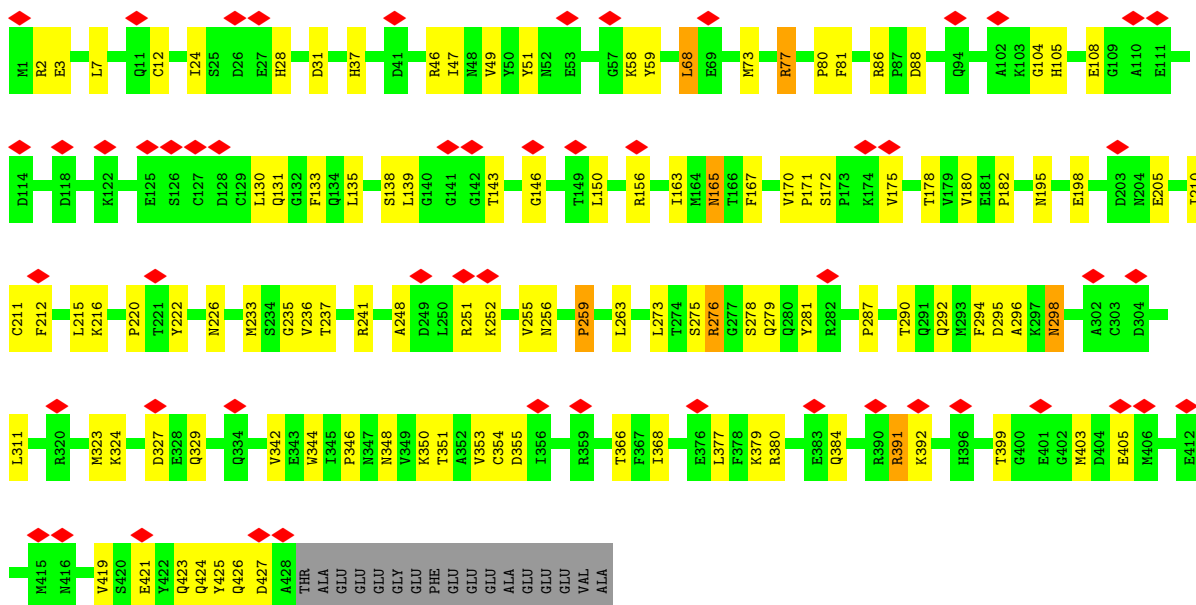
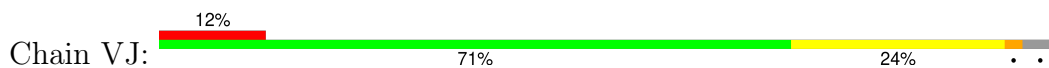


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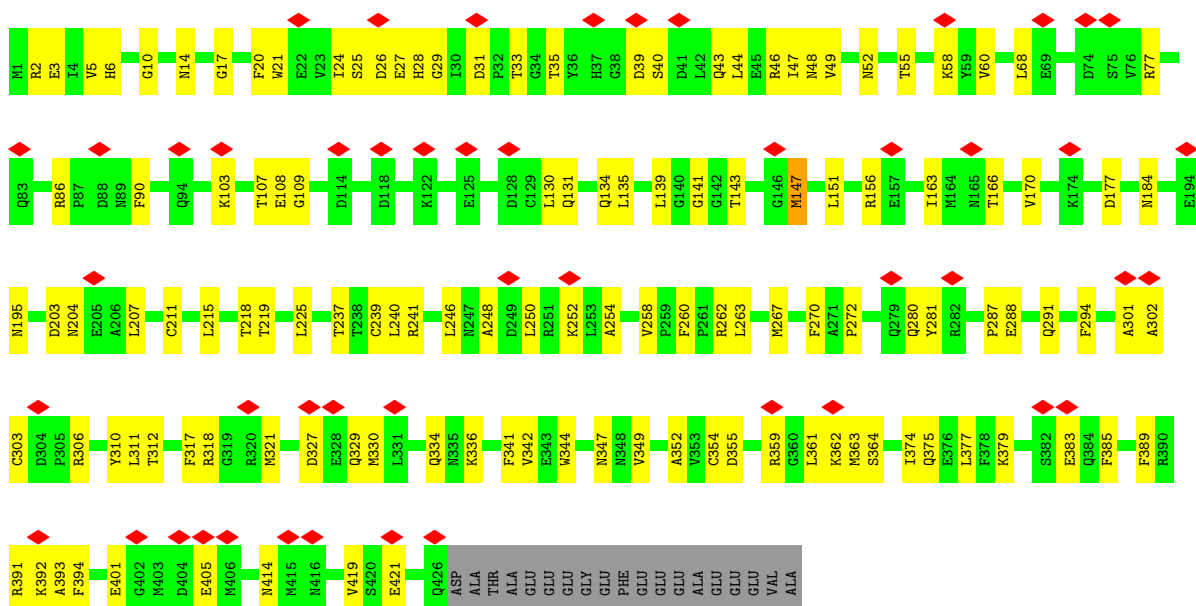




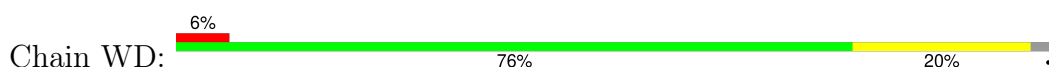
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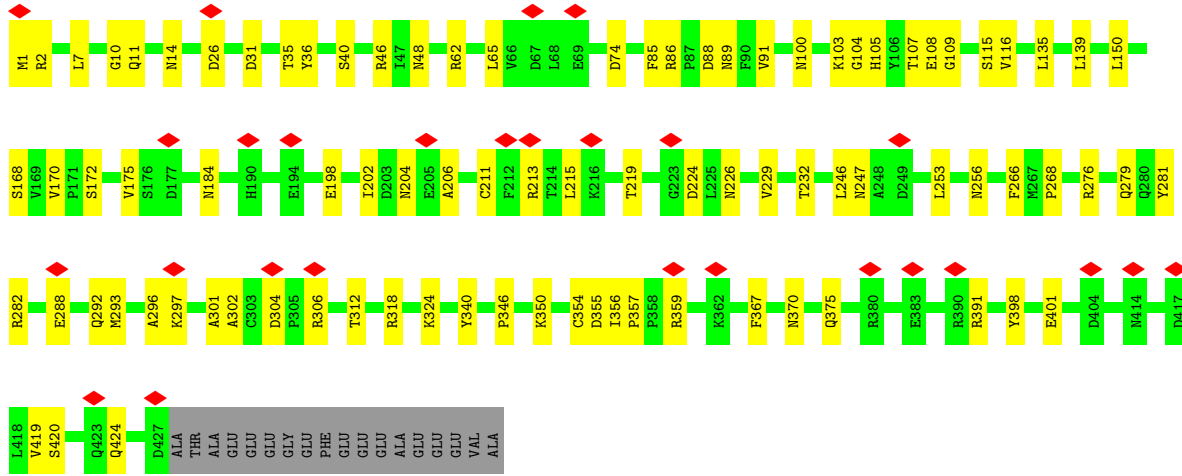


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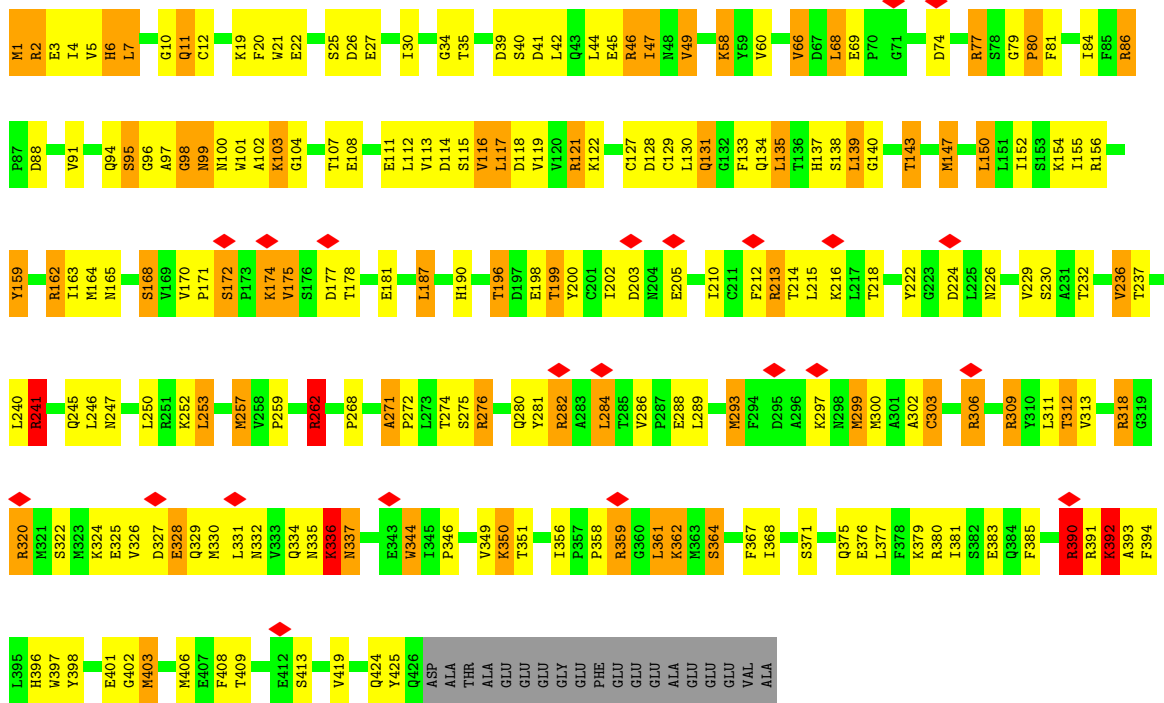


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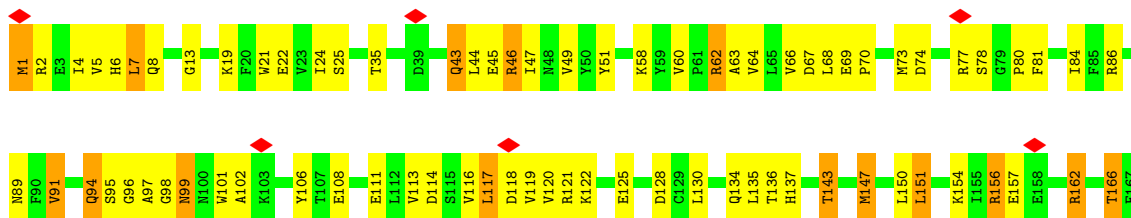


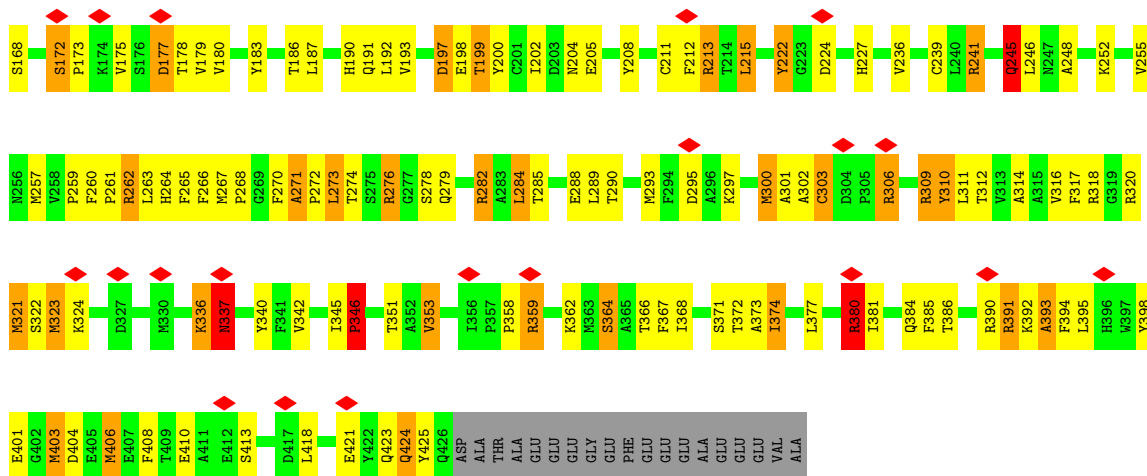


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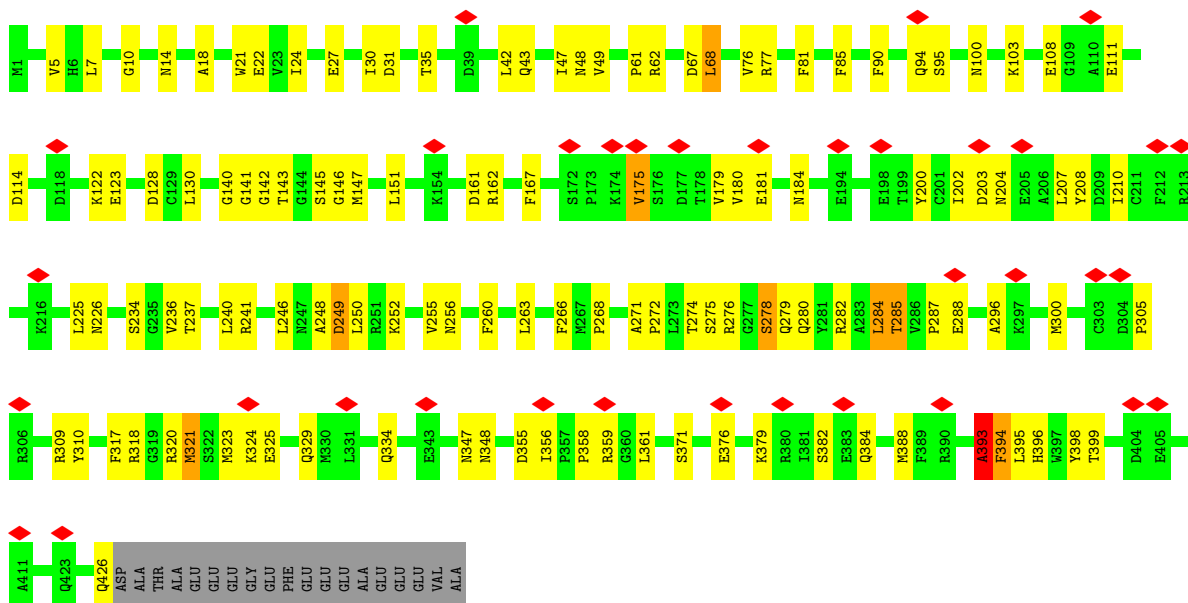


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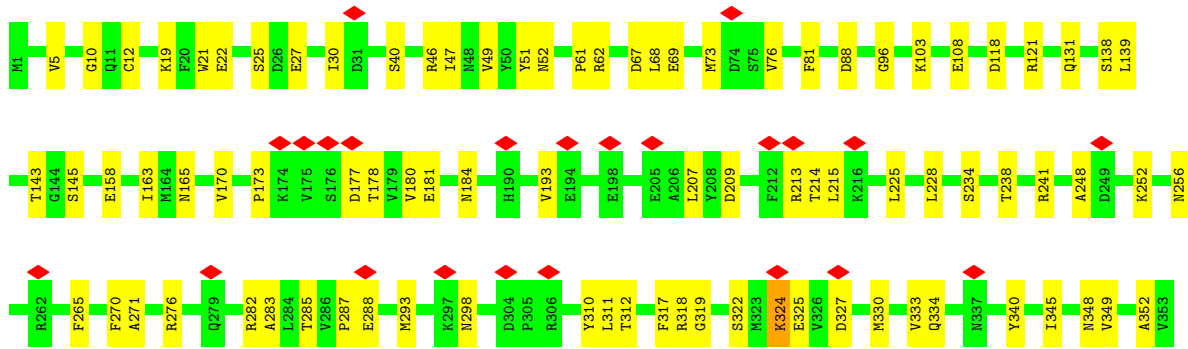
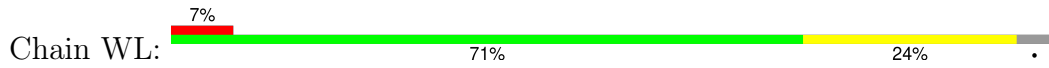


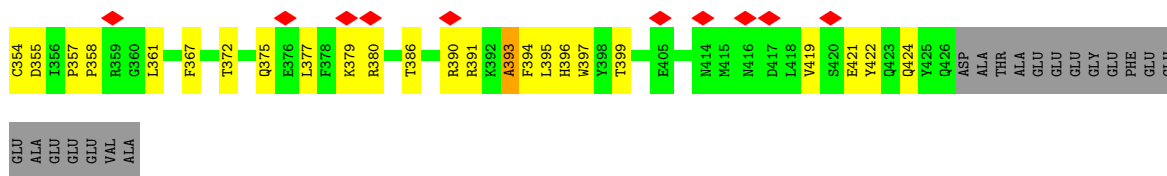


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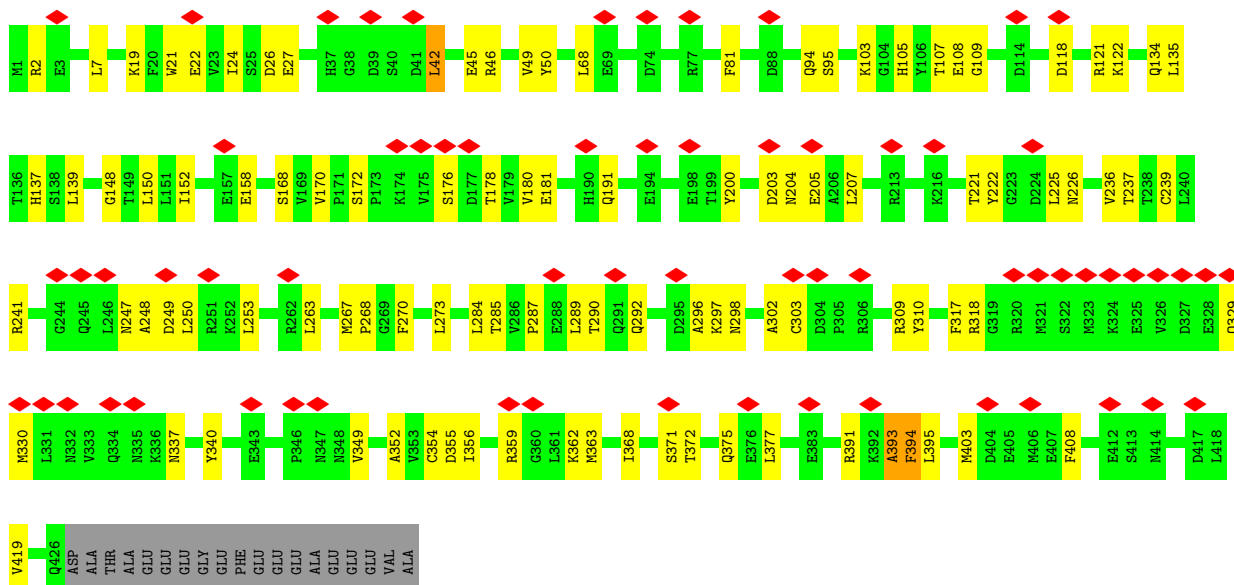
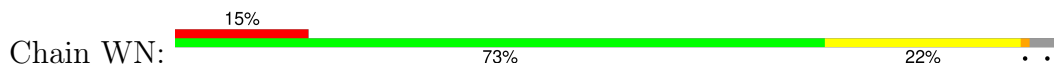


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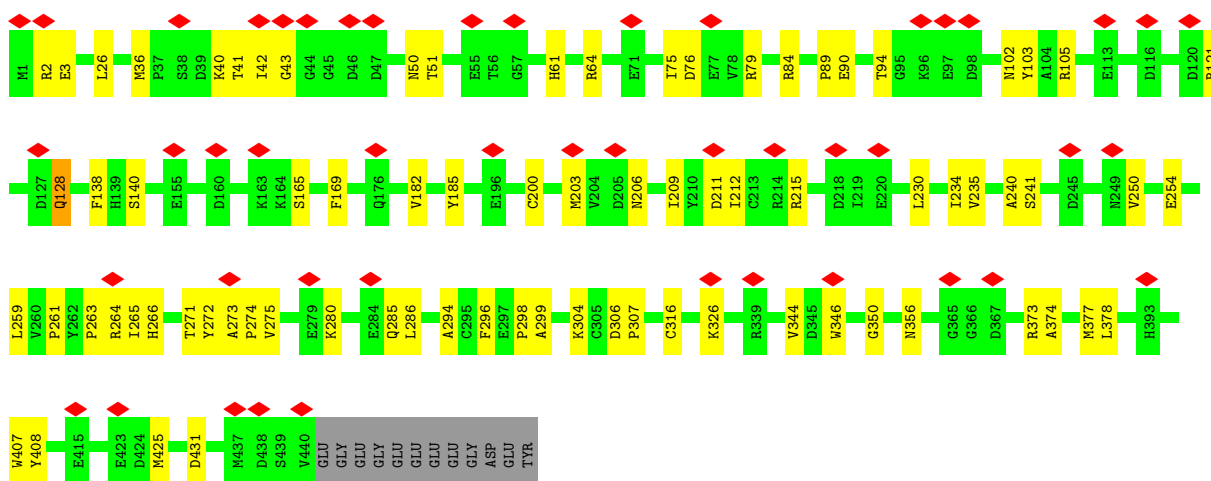
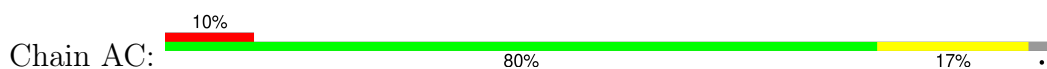




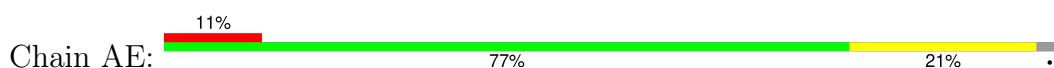
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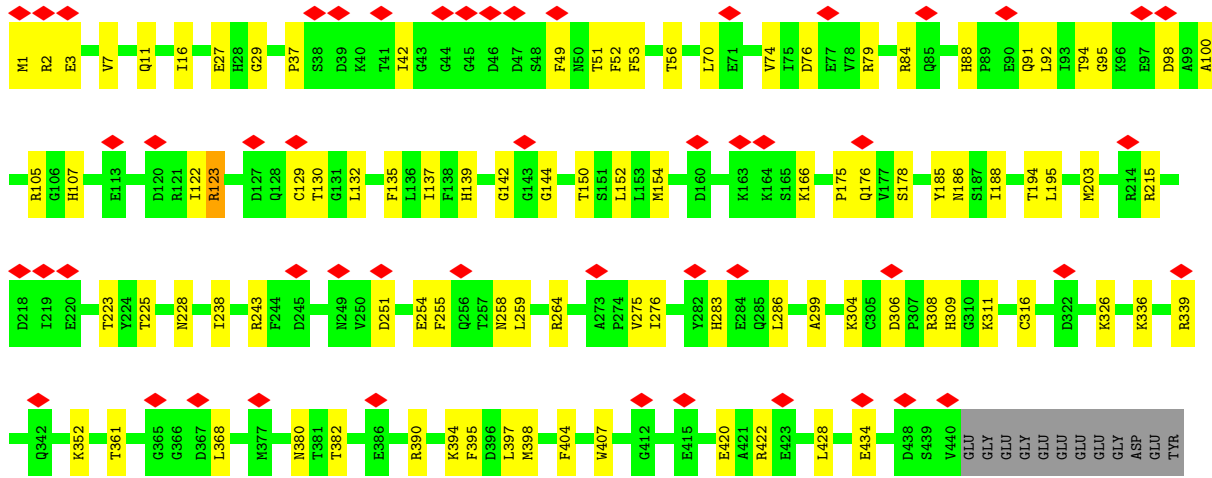


• Molecule 42: Tubulin alpha-1D chain

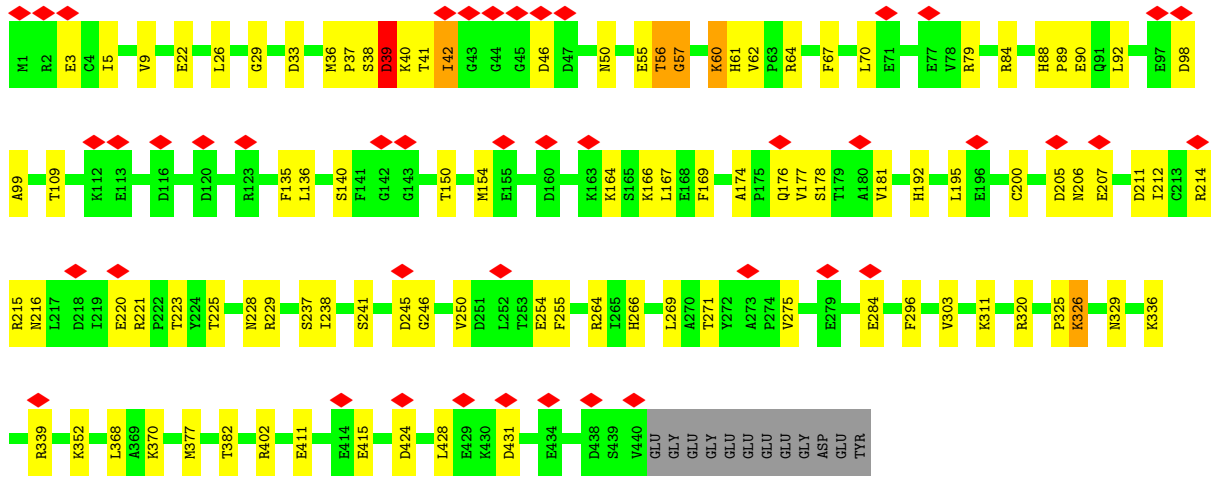
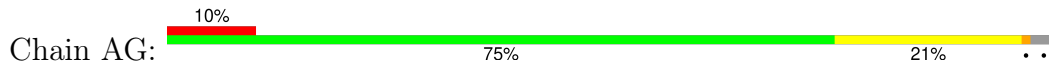


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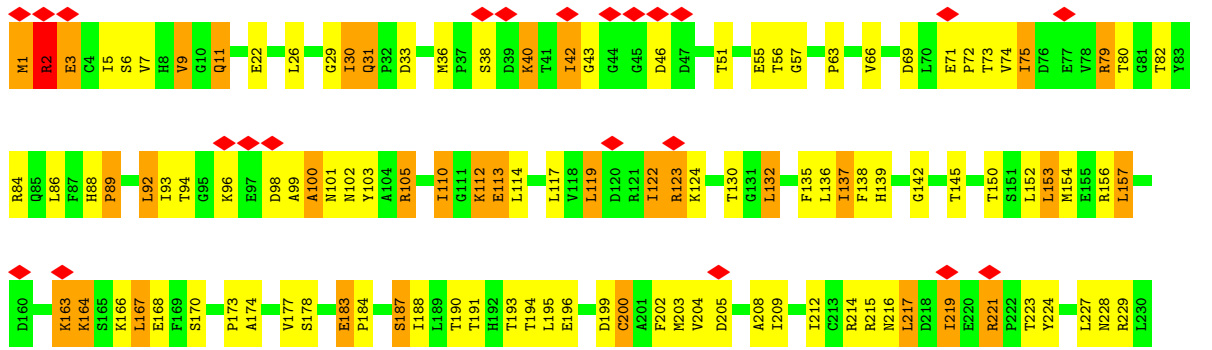


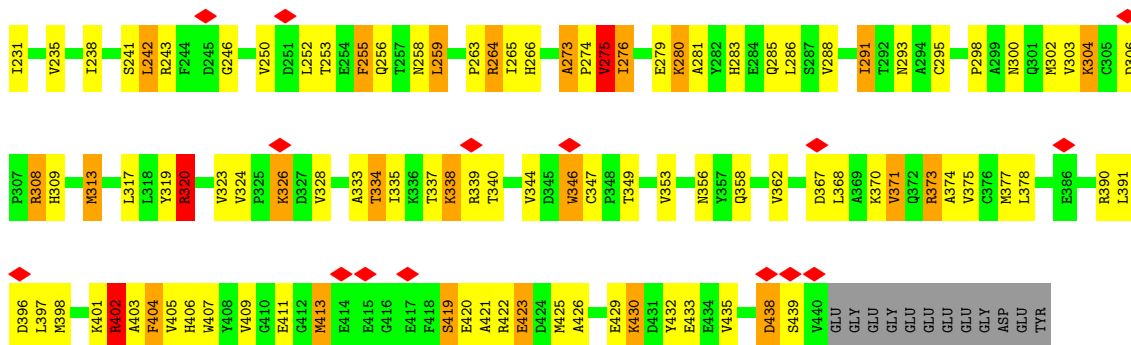


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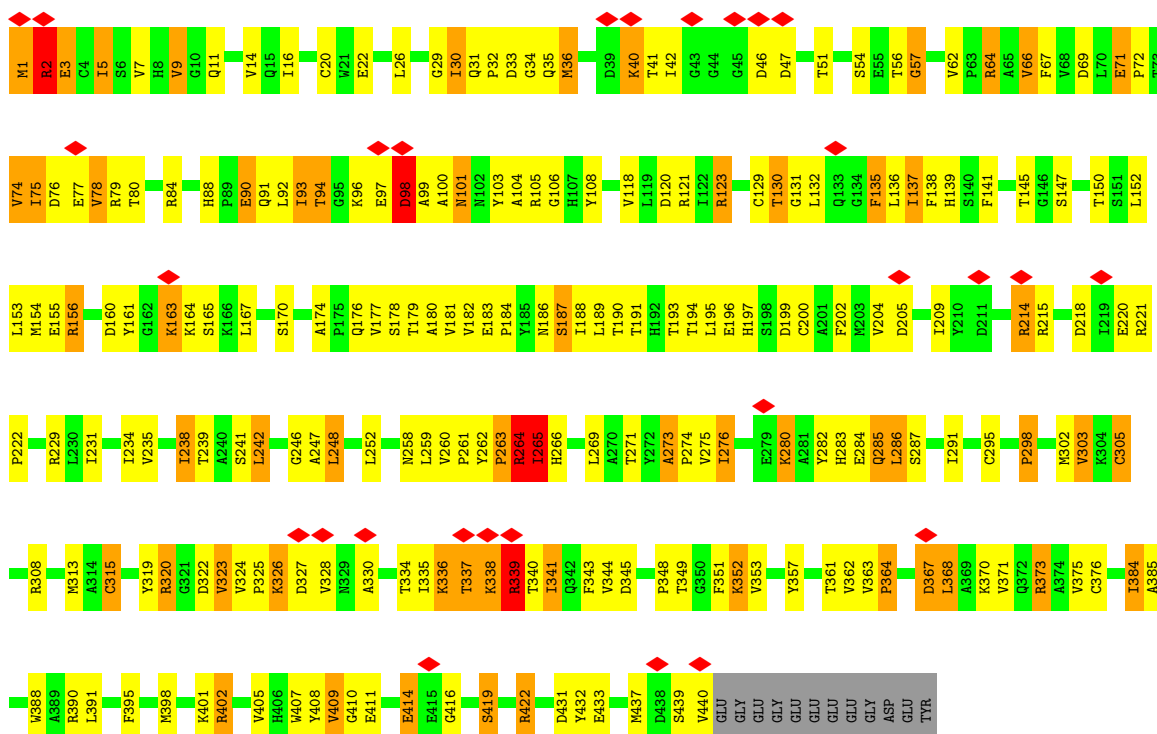


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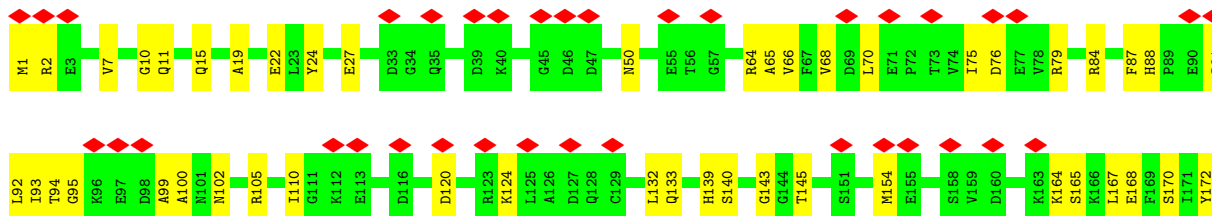
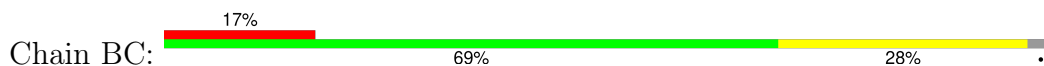


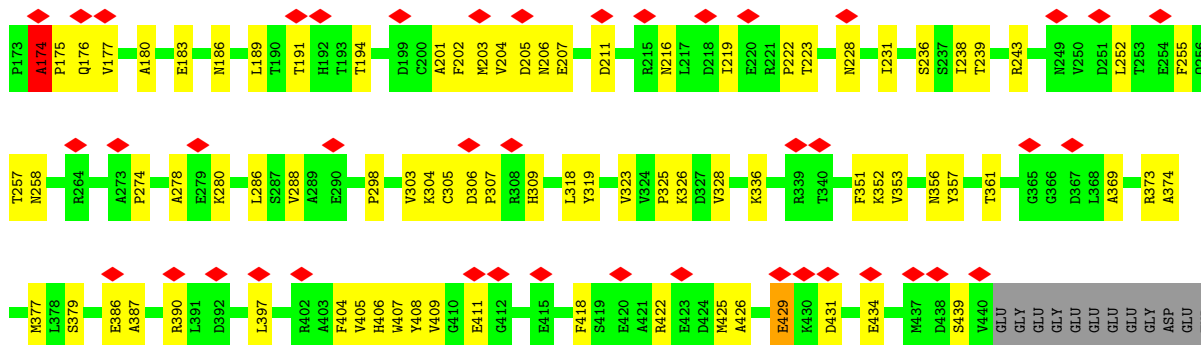


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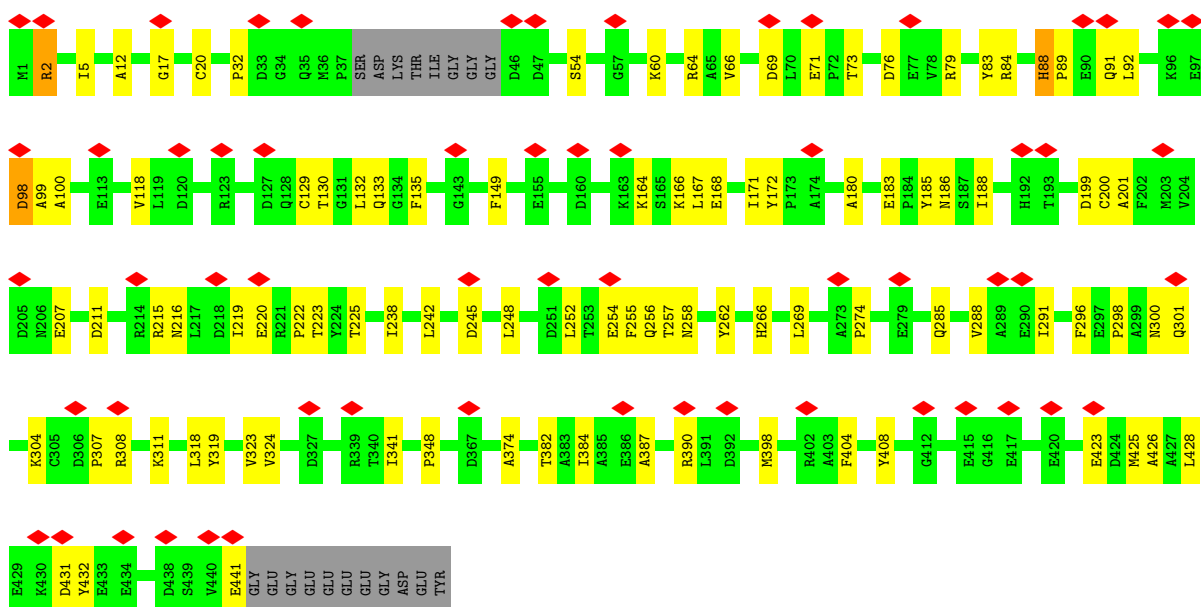
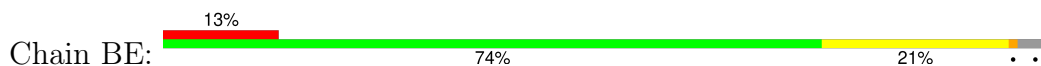


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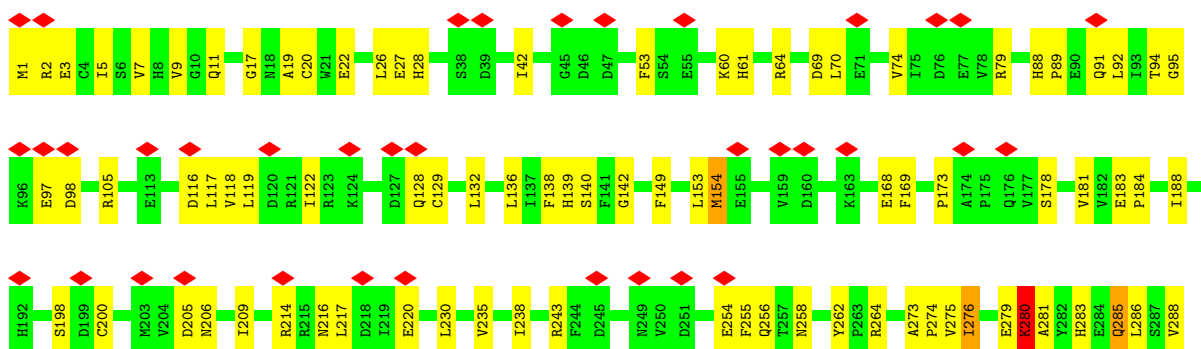
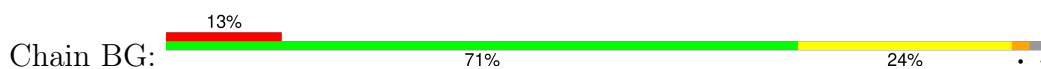


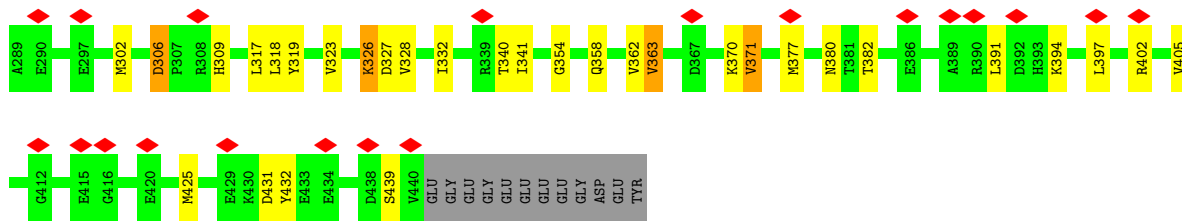


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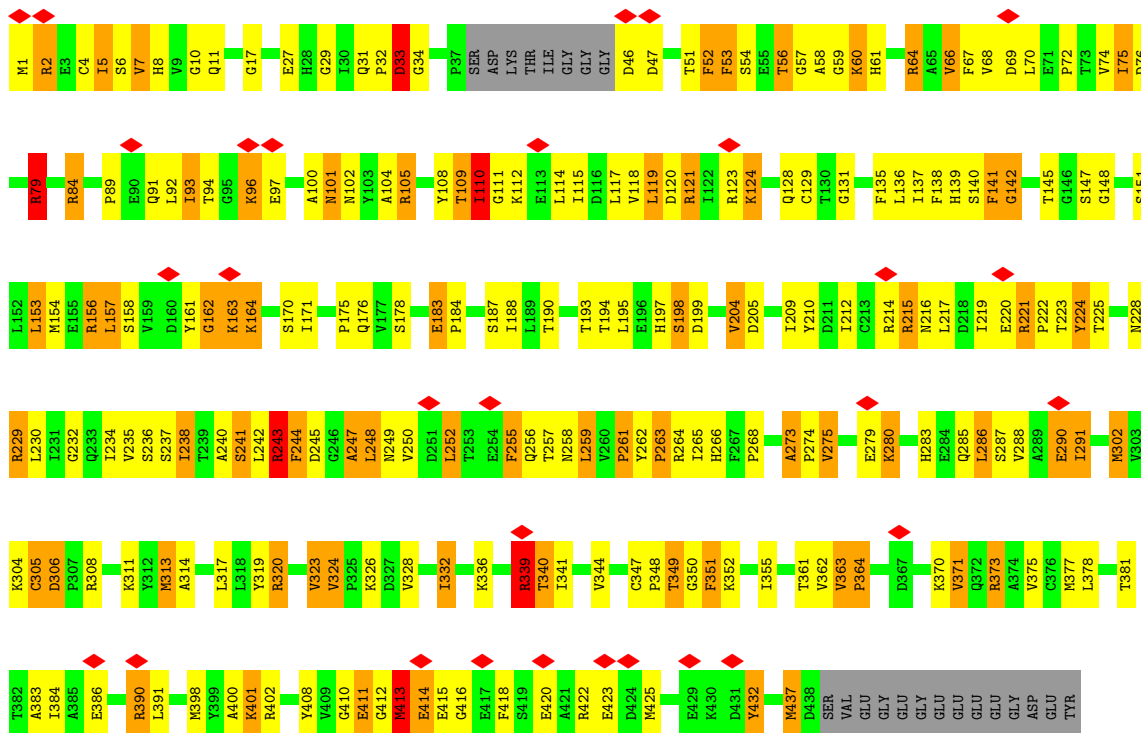


• Molecule 42: Tubulin alpha-1D chain

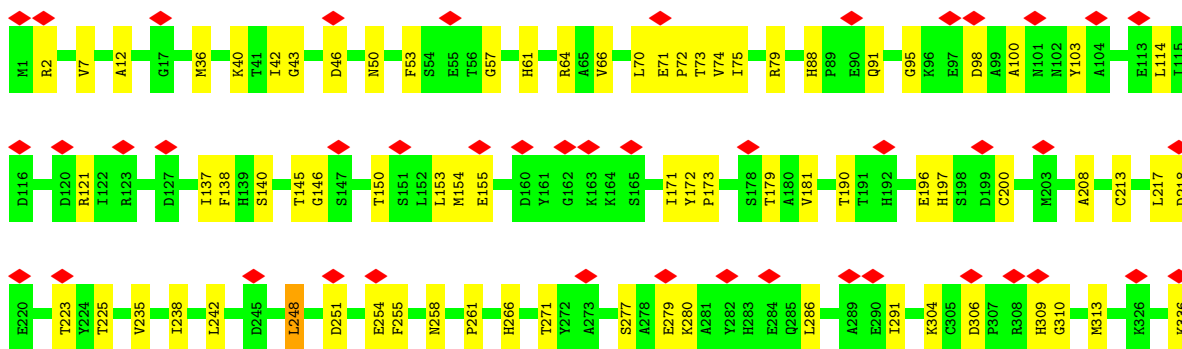
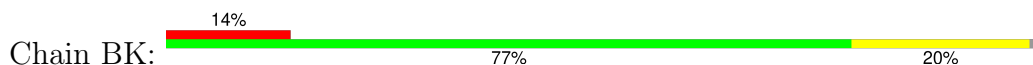


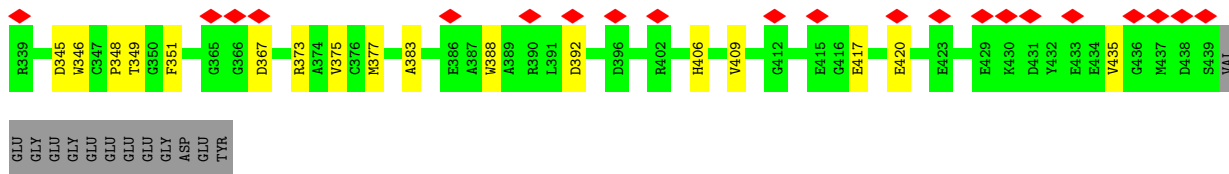


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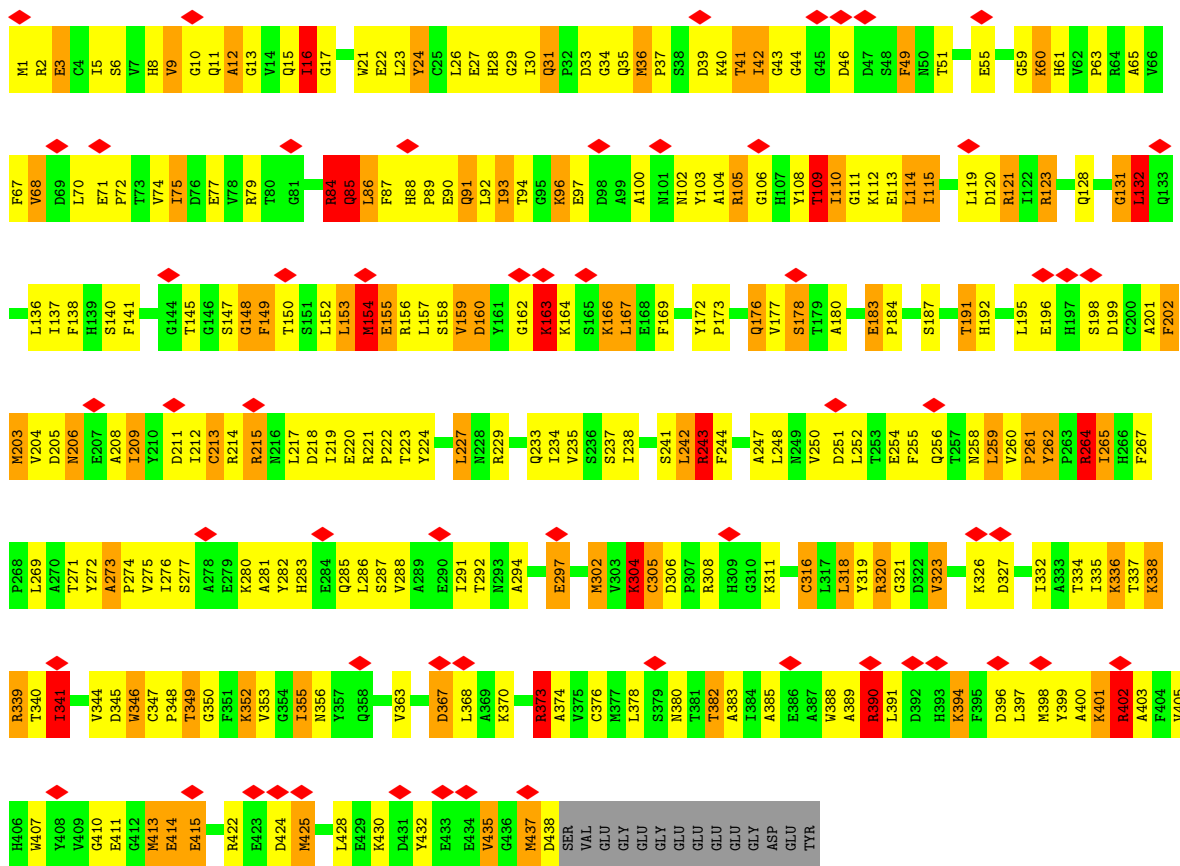


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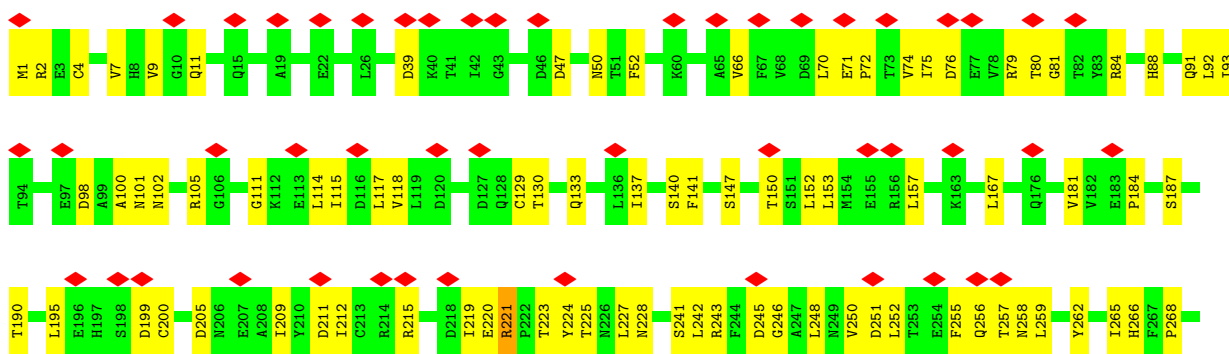


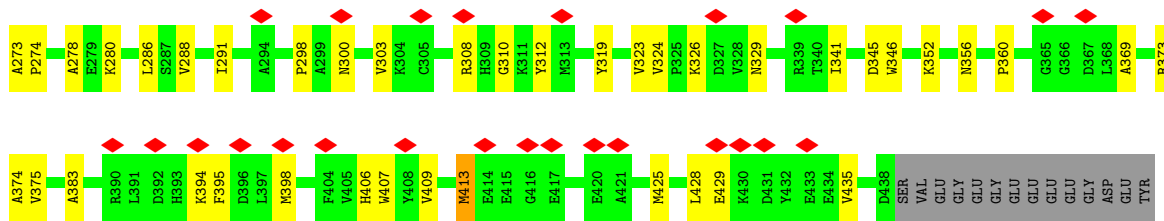


• Molecule 42: Tubulin alpha-1D chain

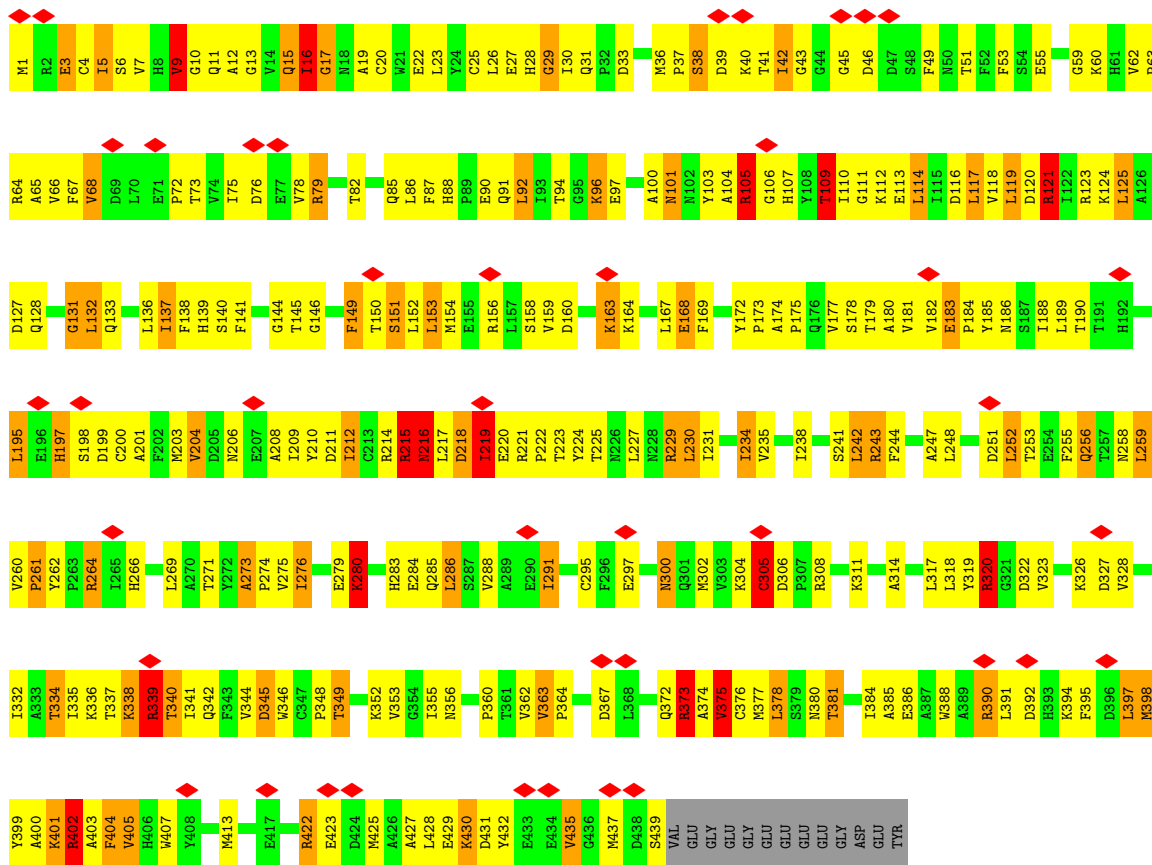


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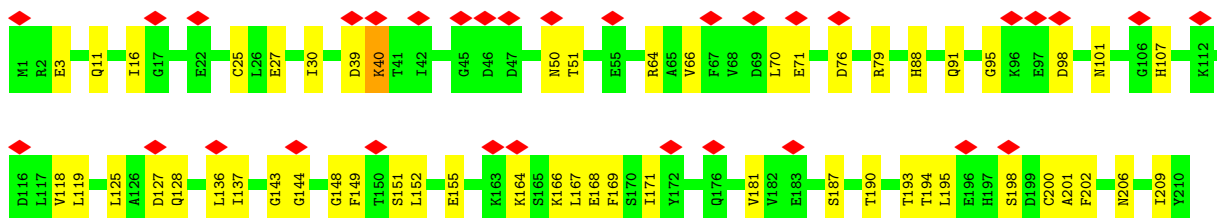


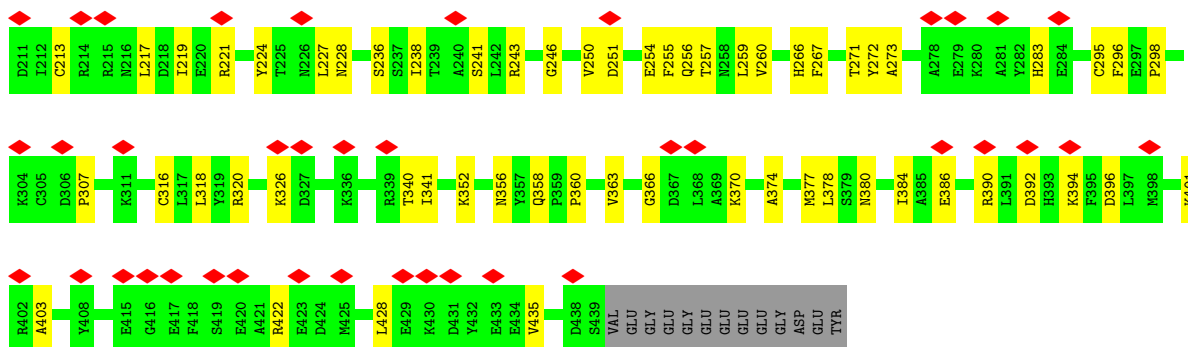


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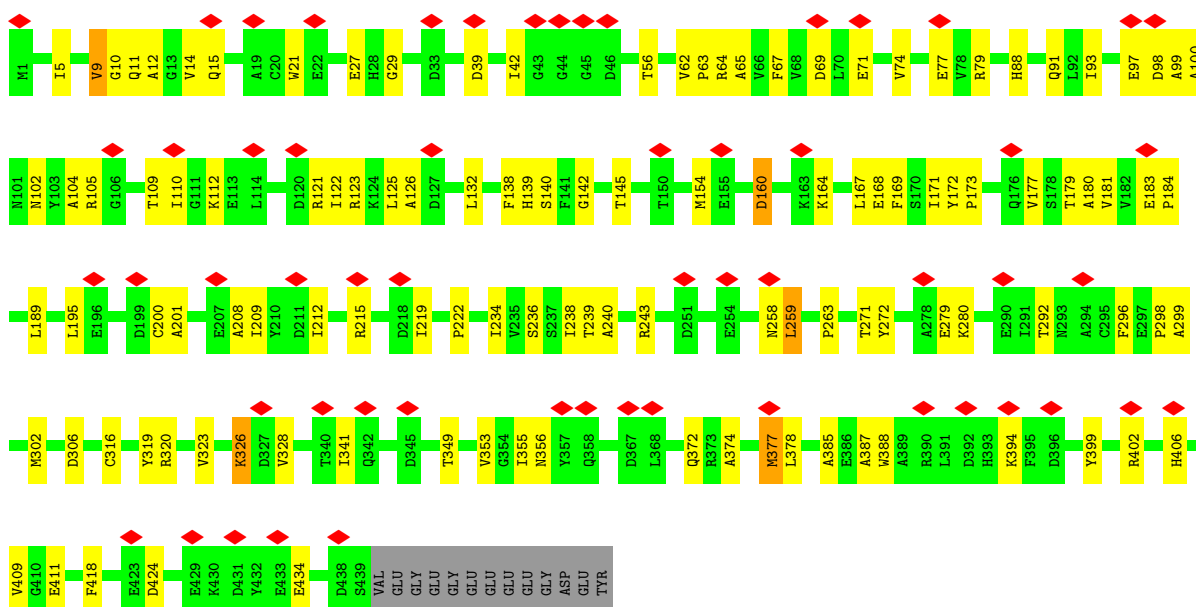


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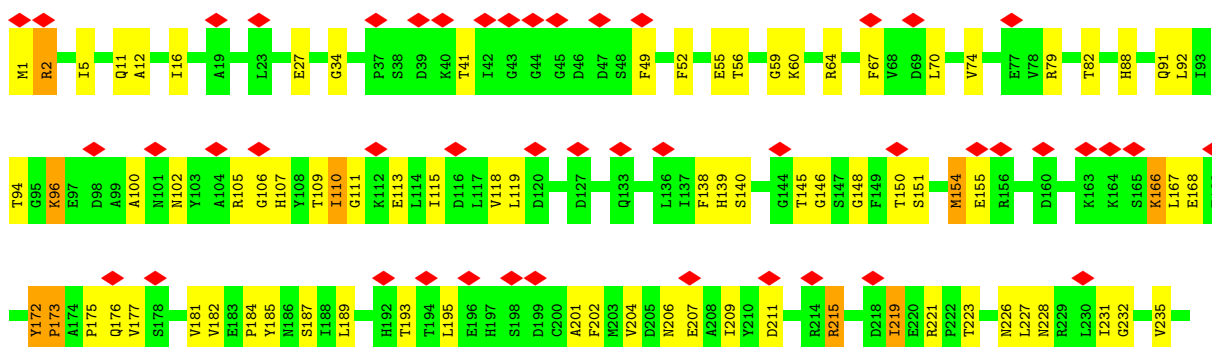


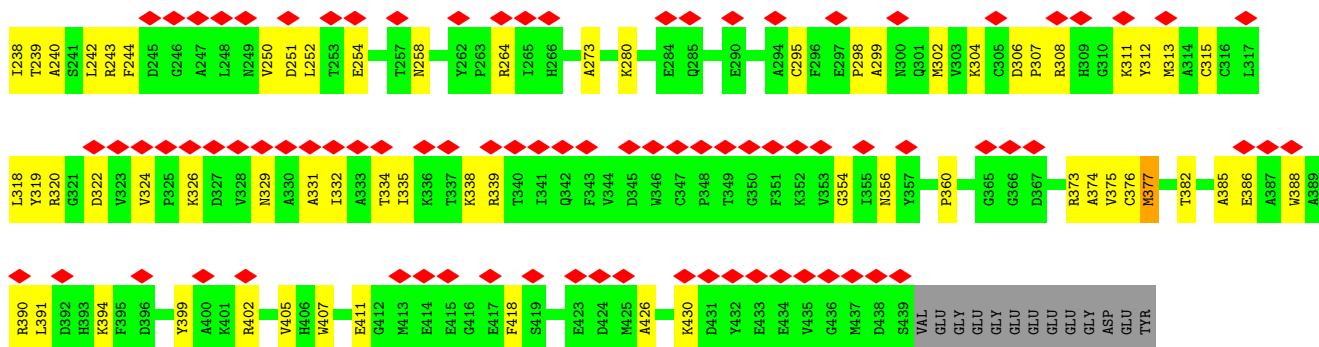


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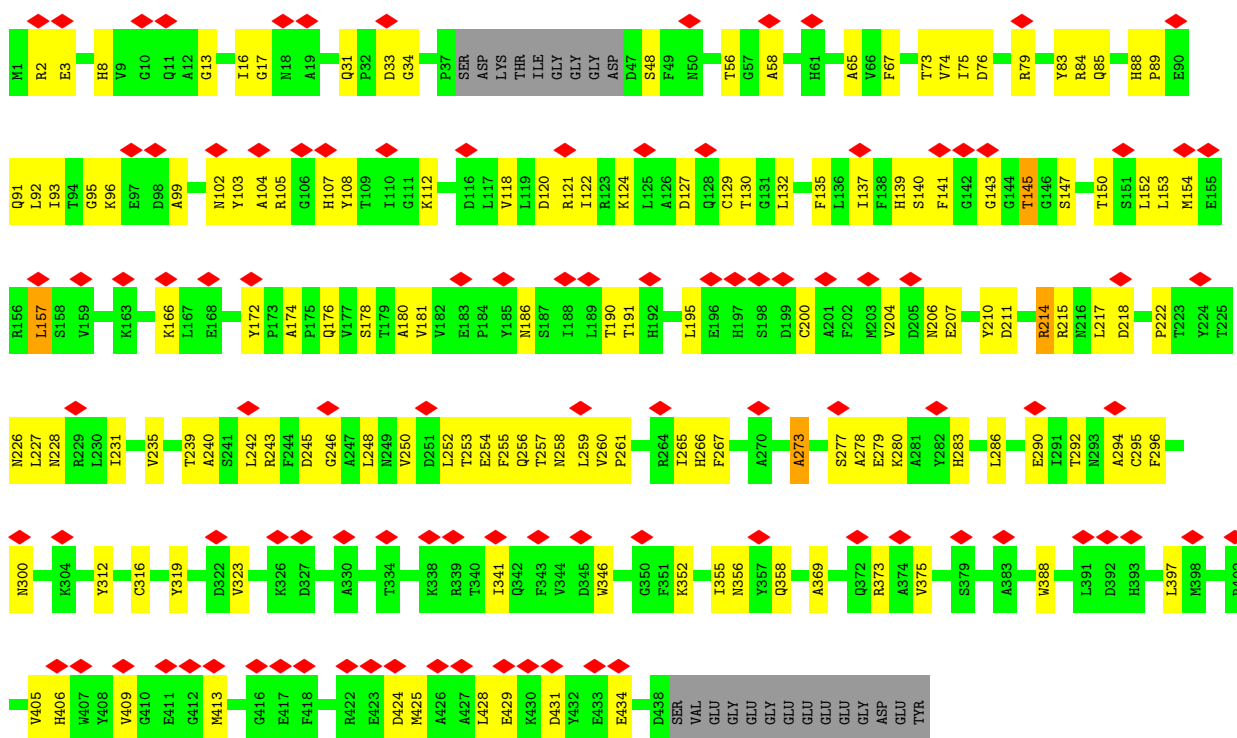


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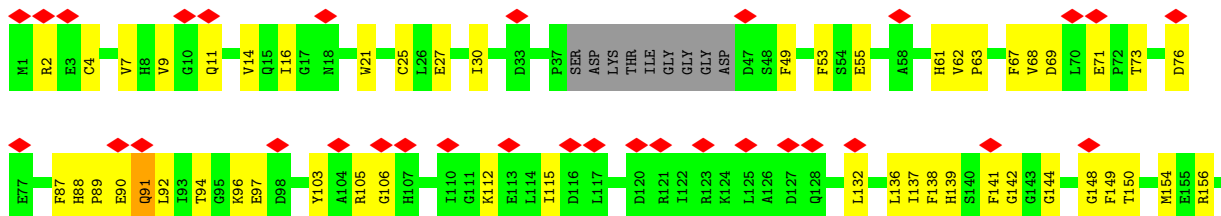


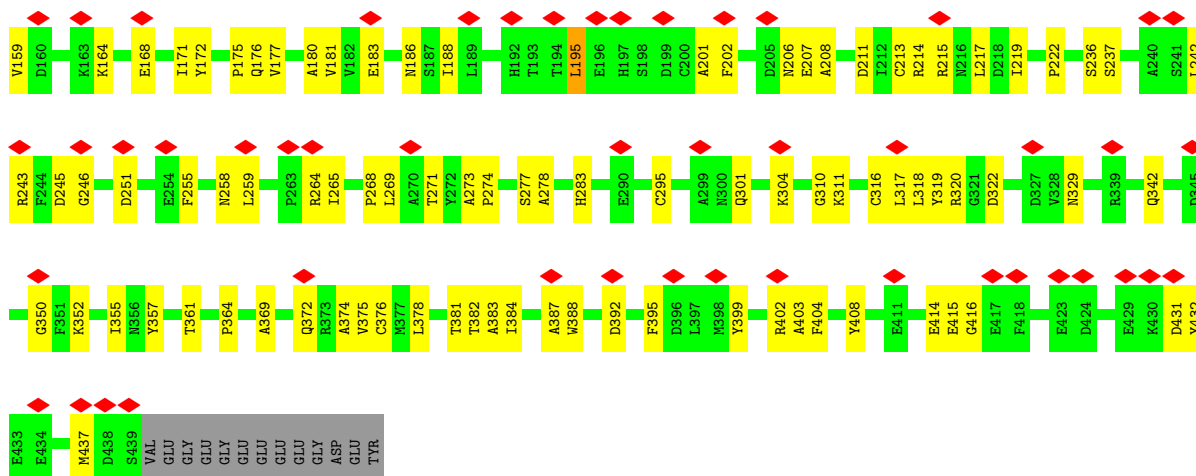


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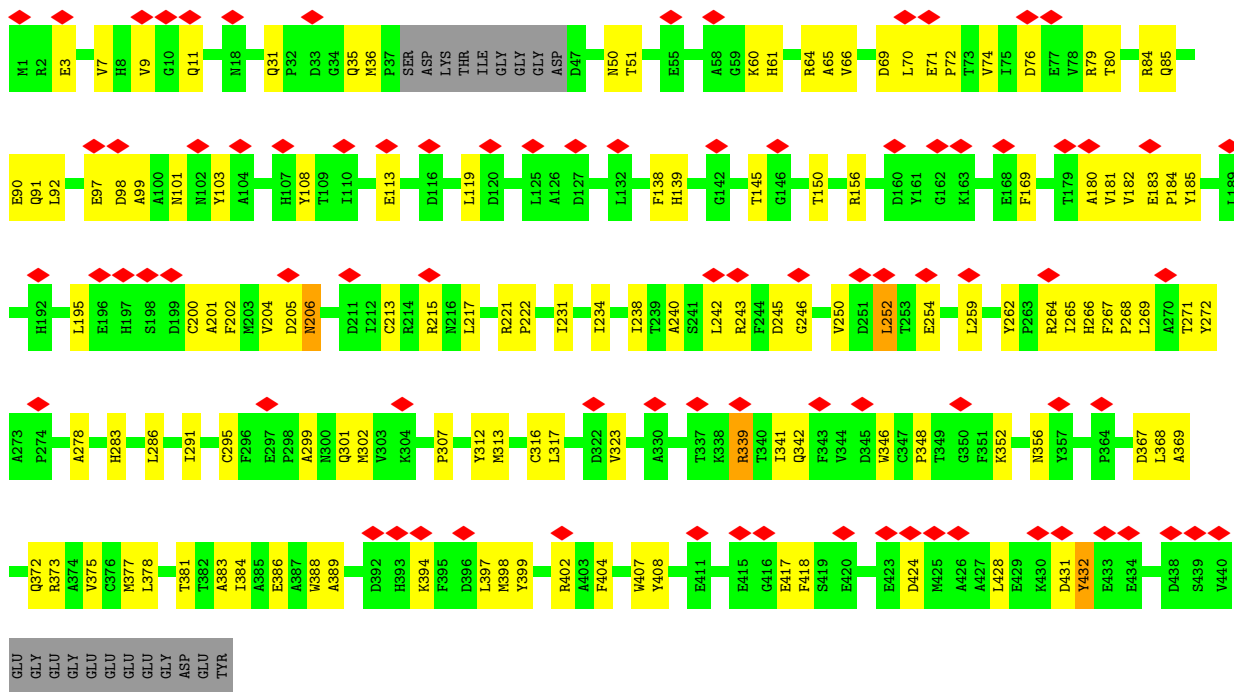


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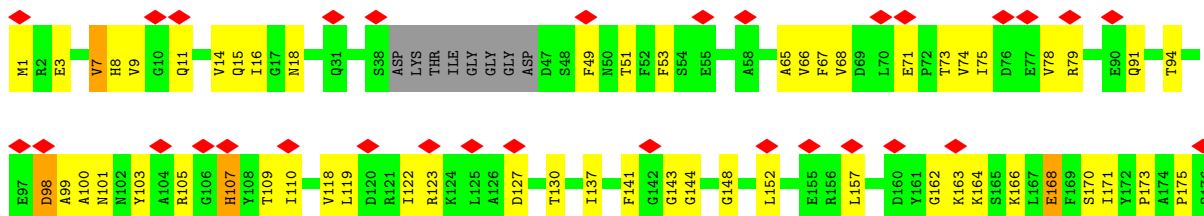


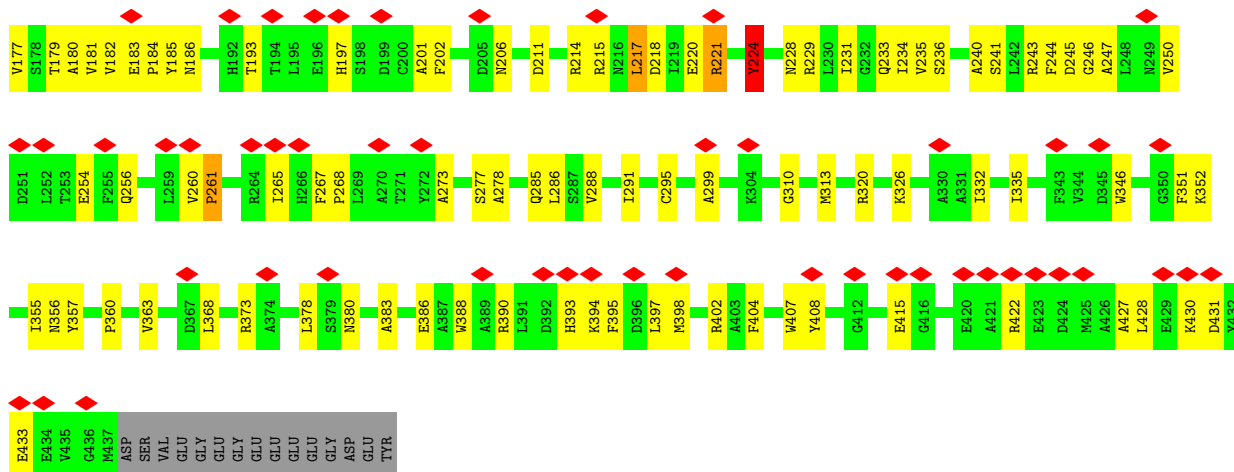


● Molecule 42: Tubulin alpha-1D chain

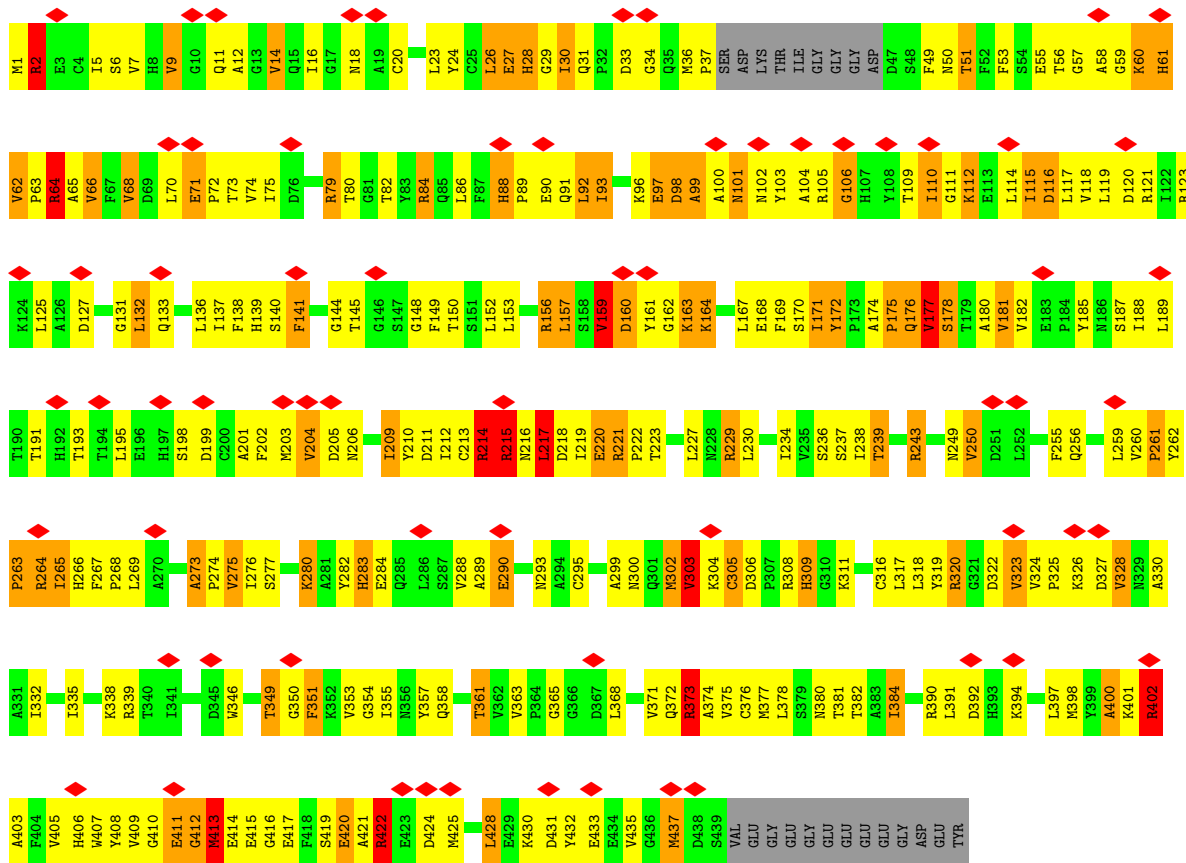


● Molecule 42: Tubulin alpha-1D chain



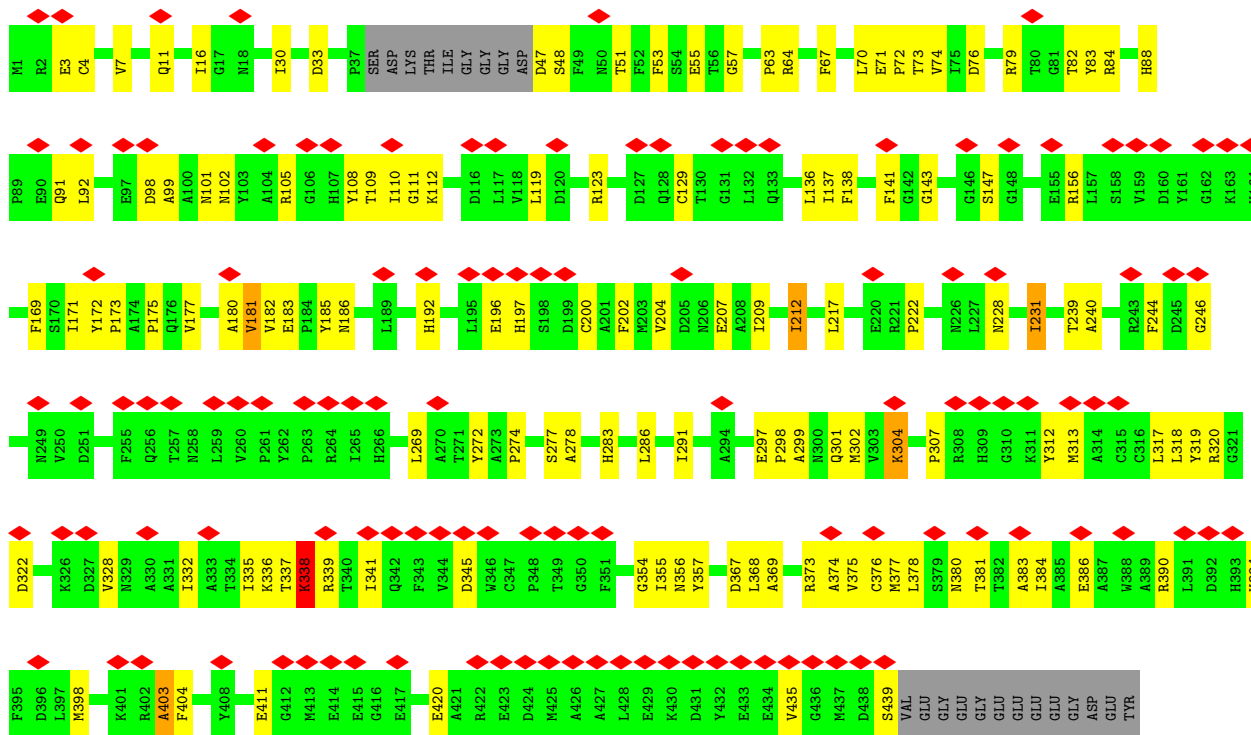


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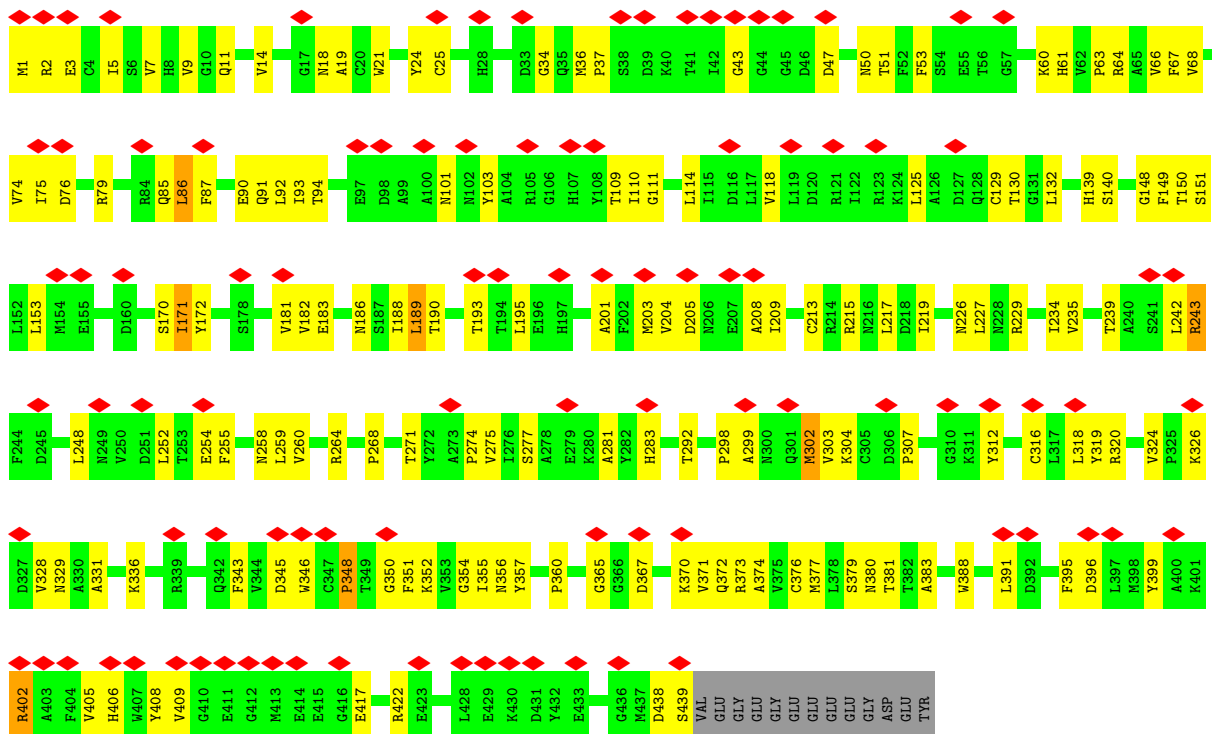


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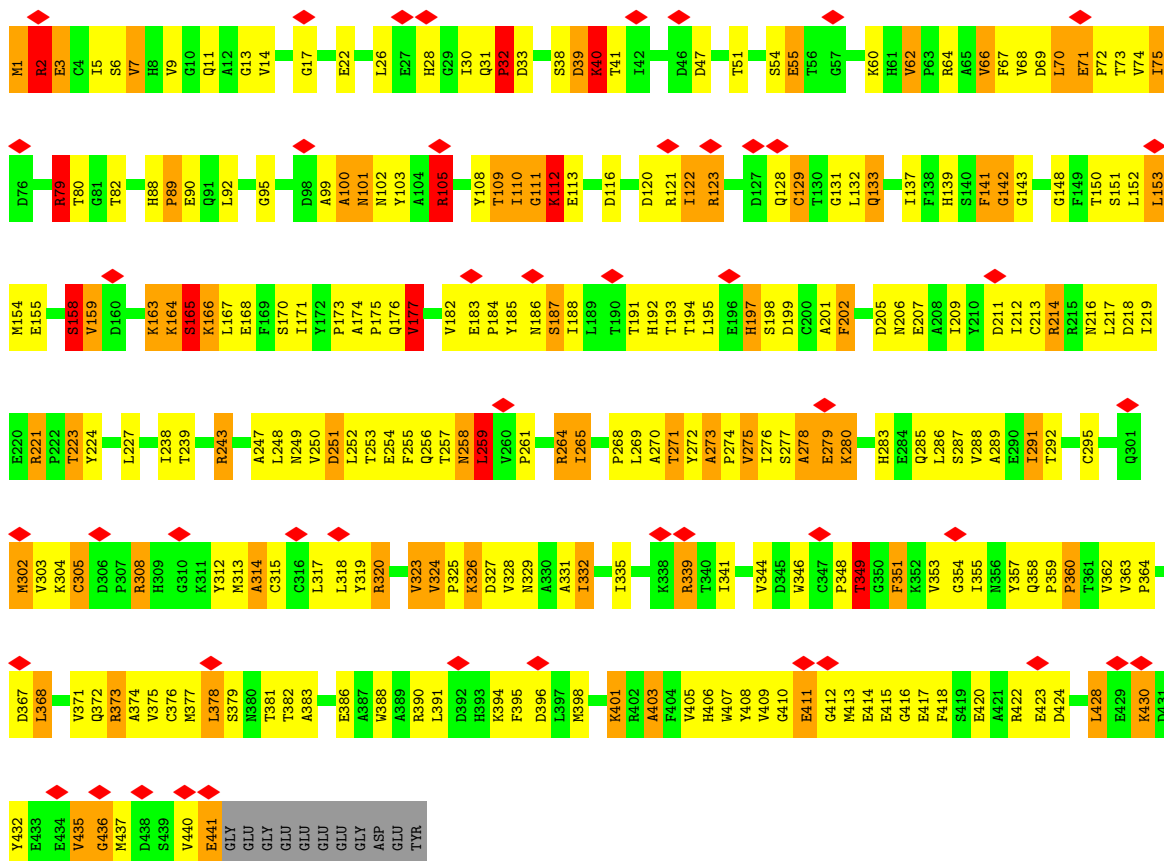




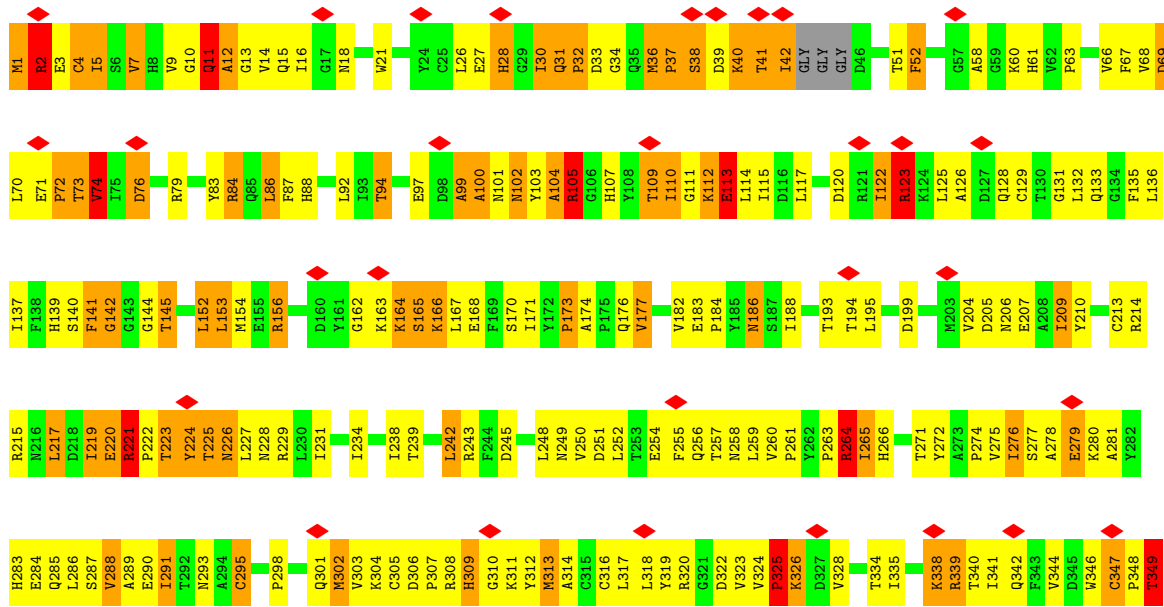
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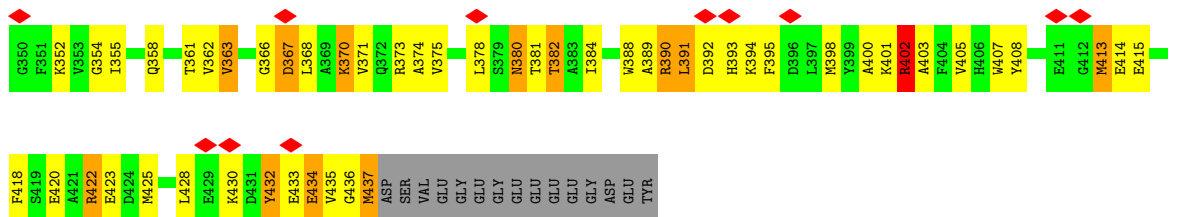


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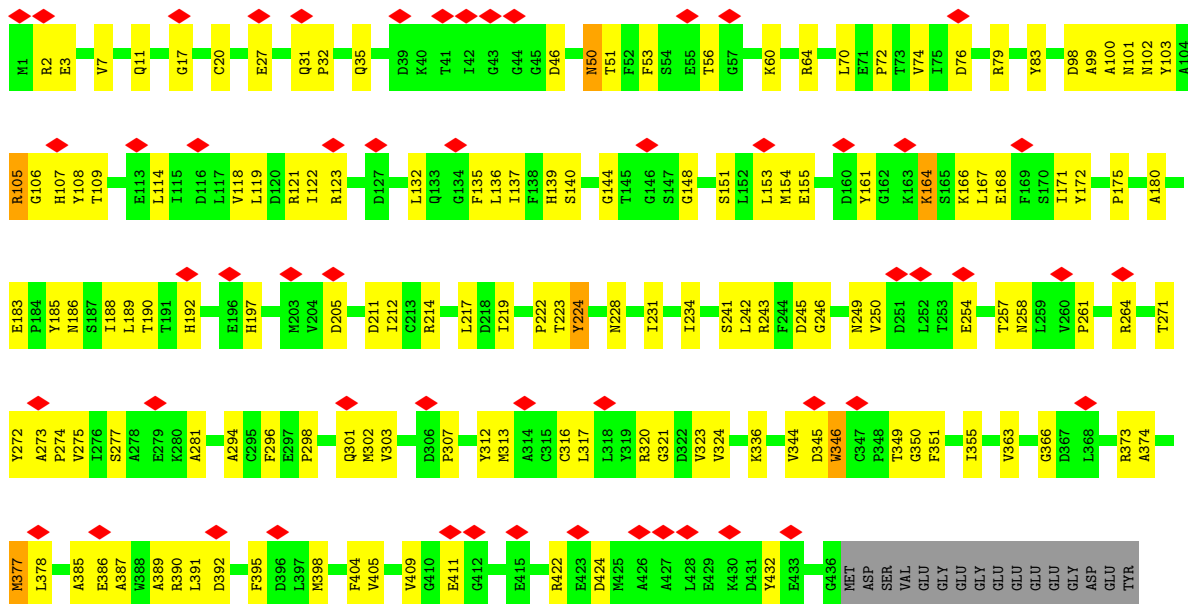


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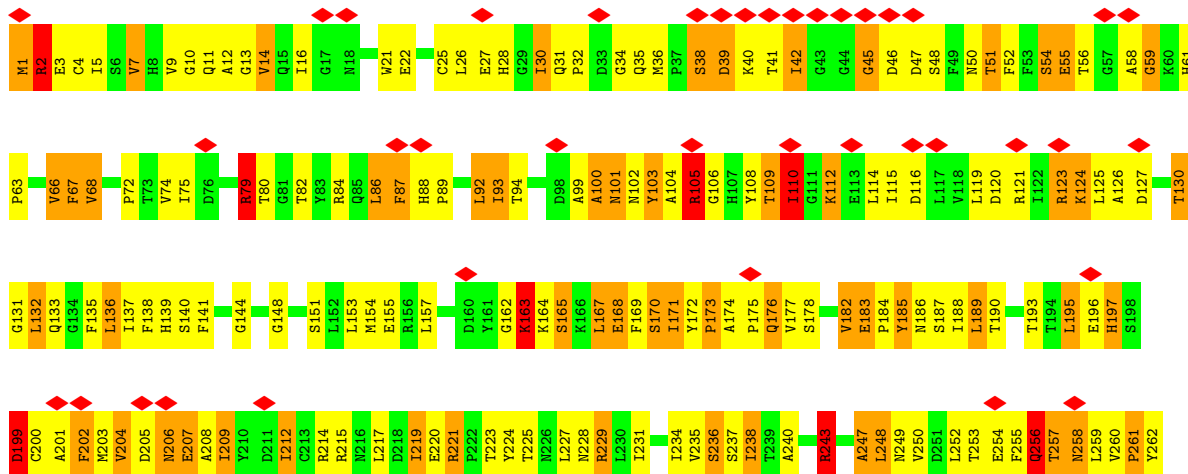


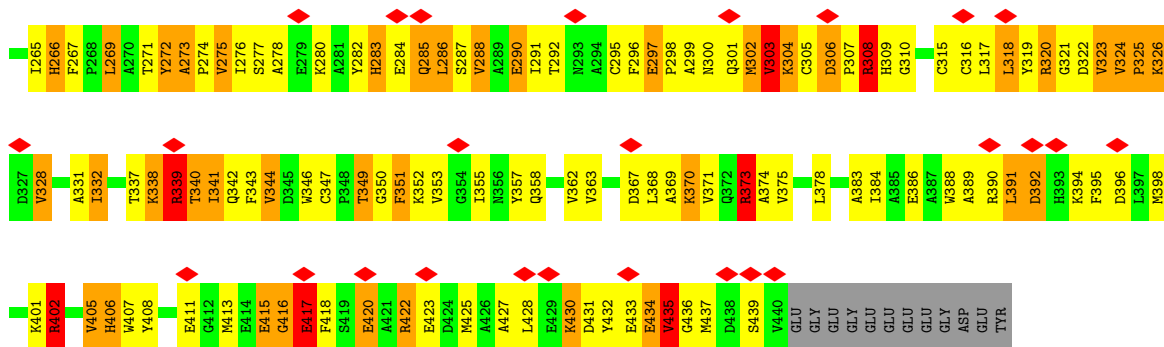


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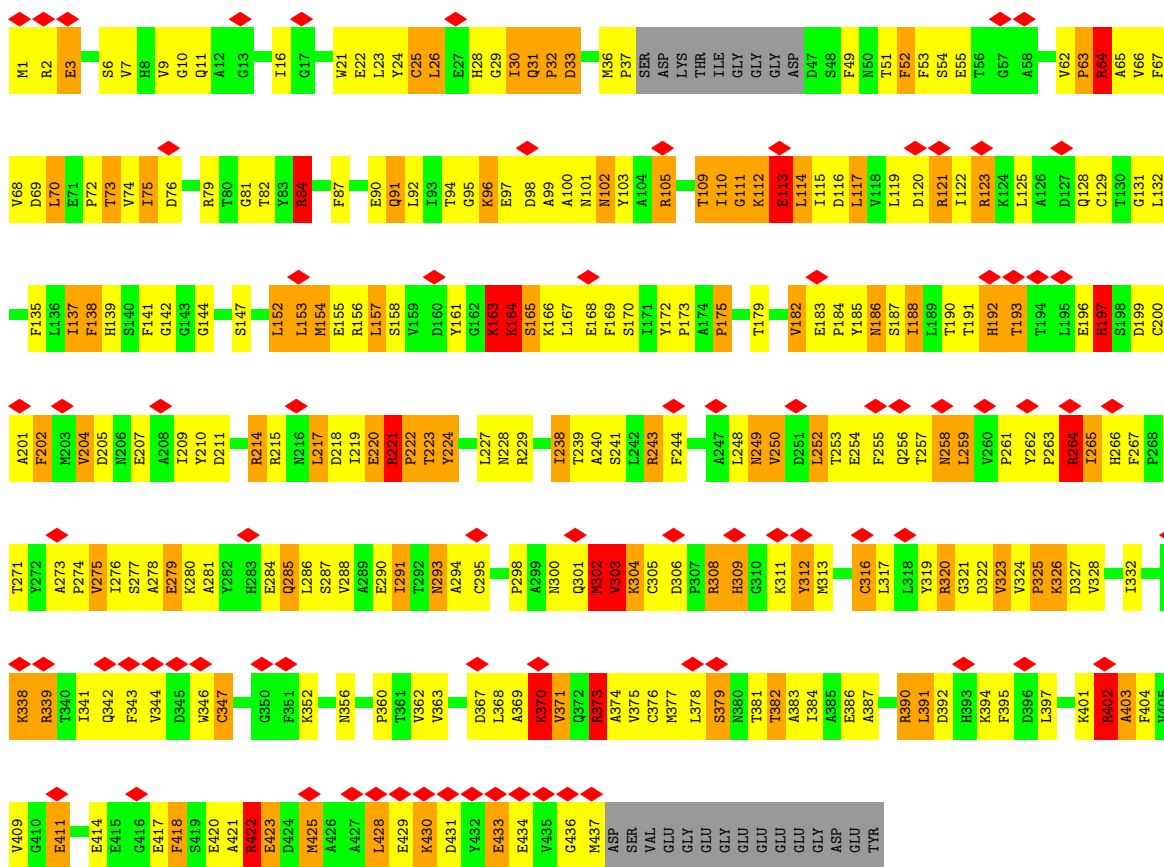


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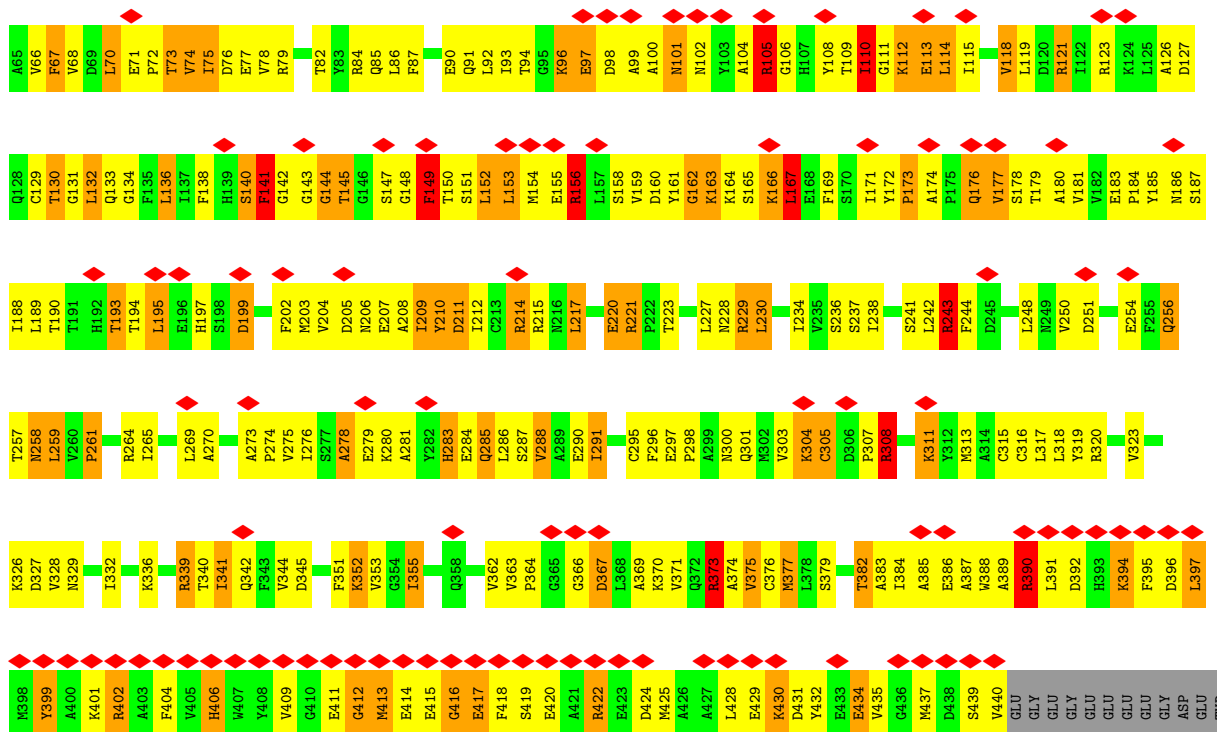


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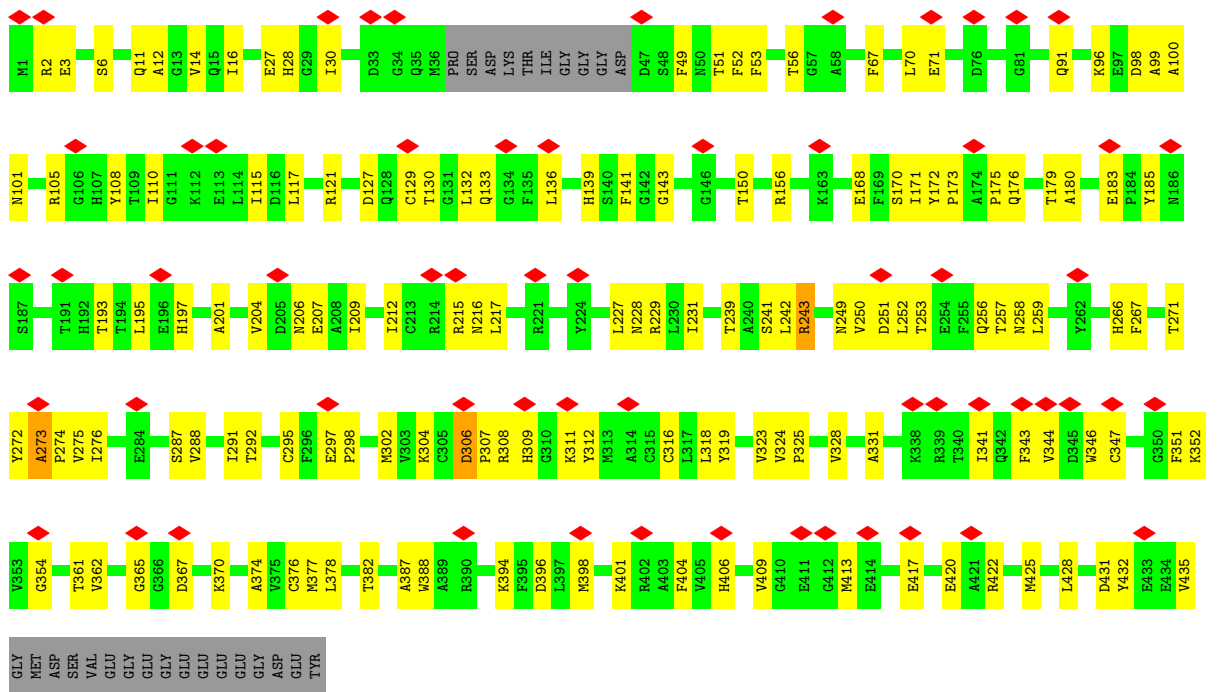


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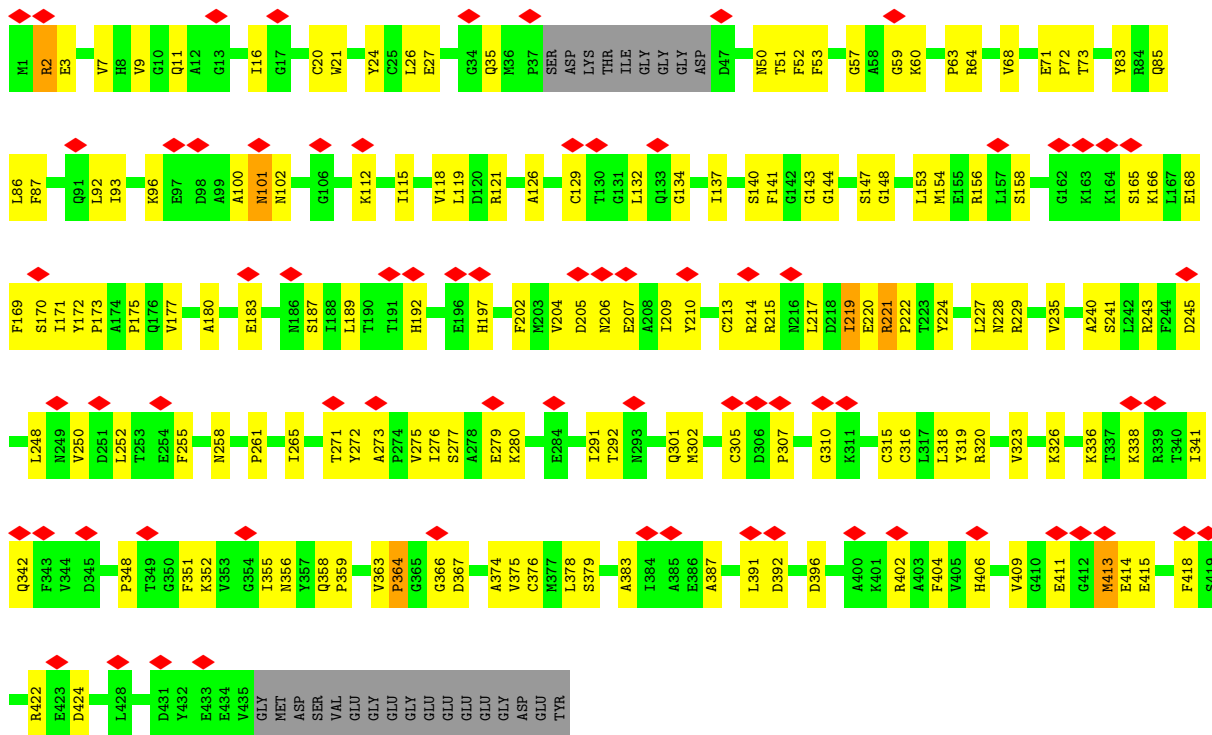


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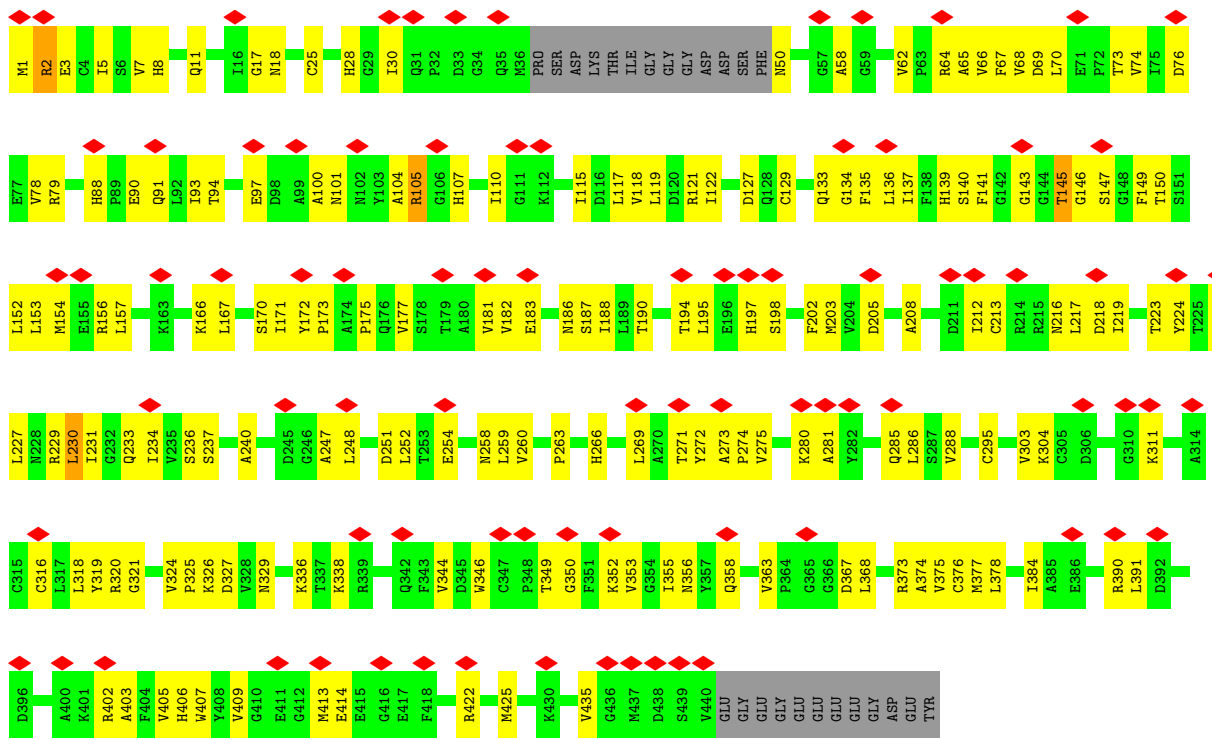


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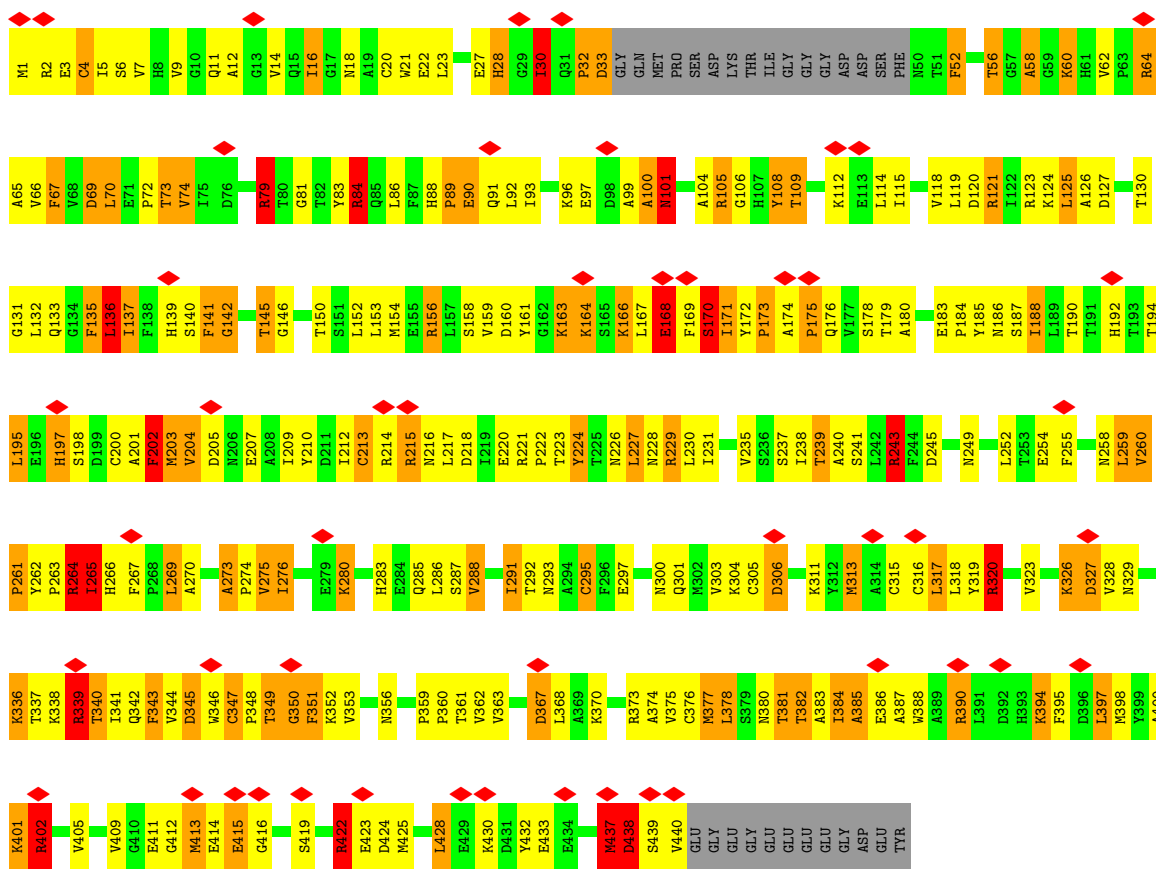




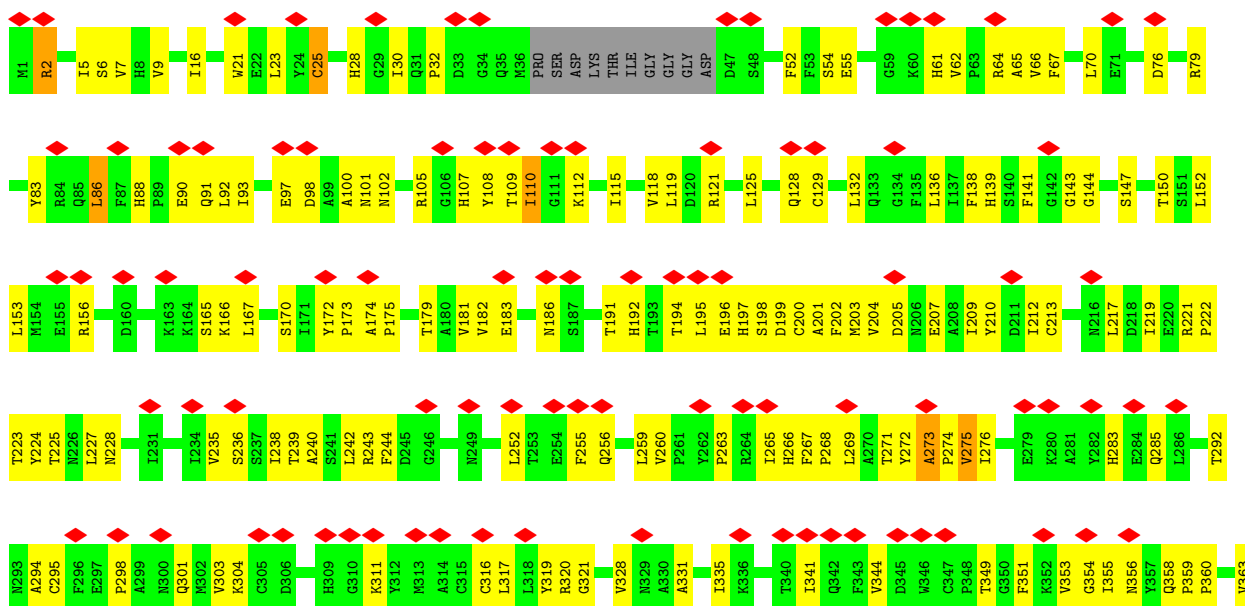
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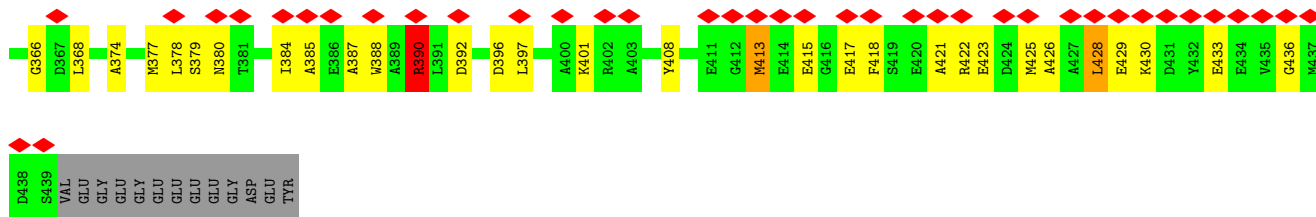


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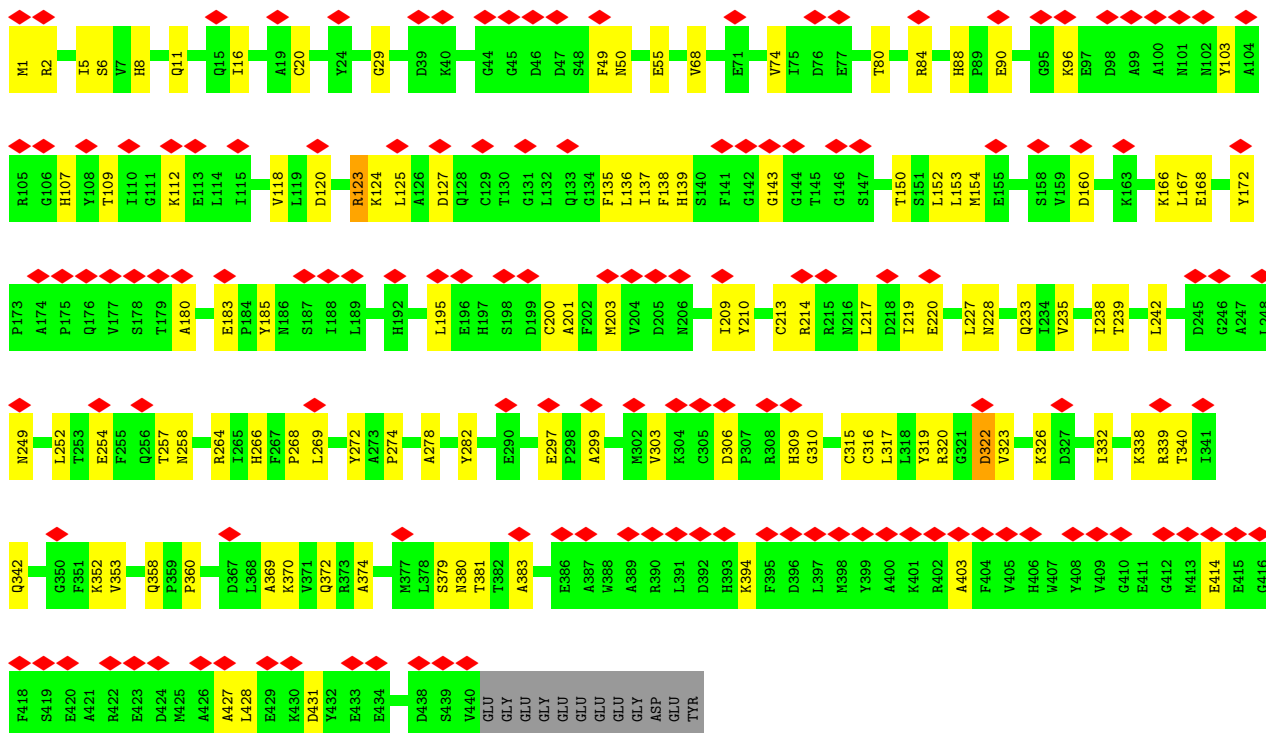
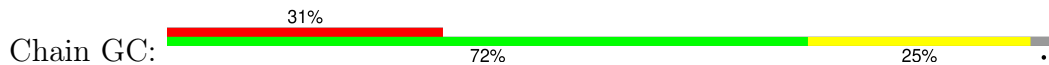


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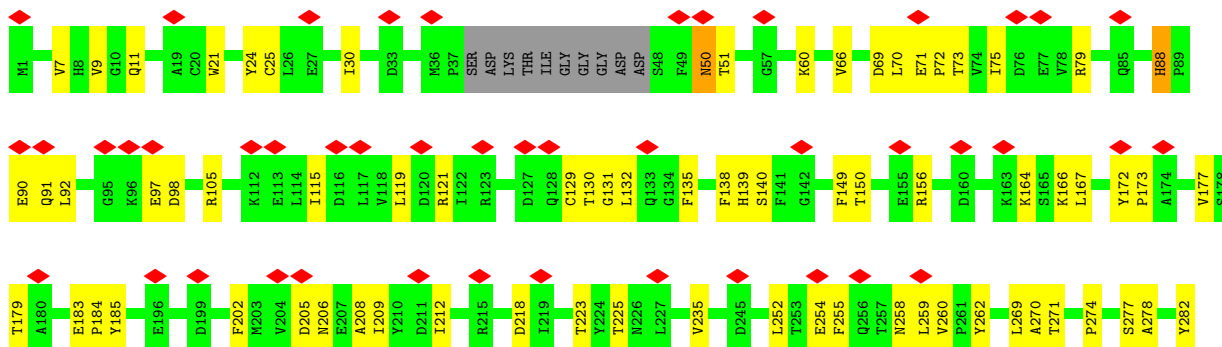
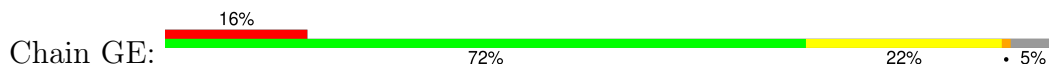


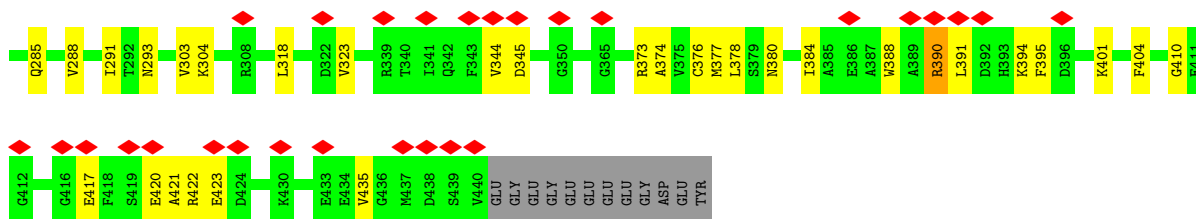


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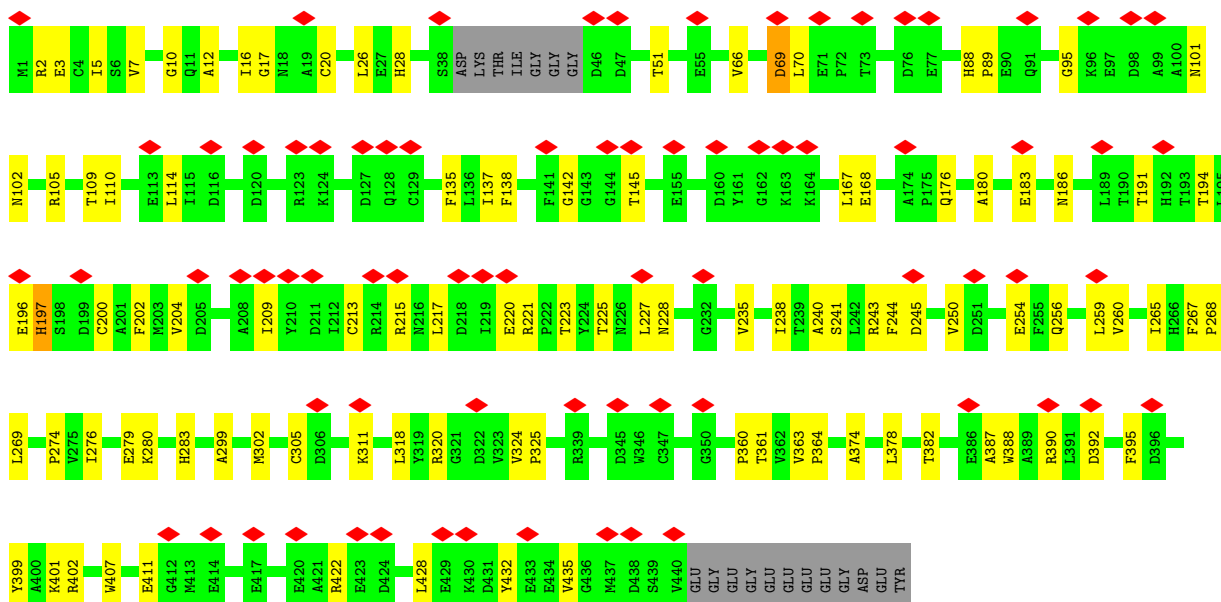
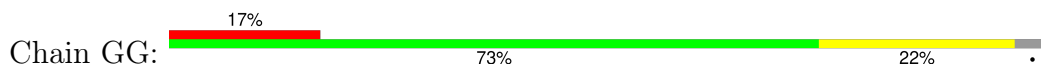


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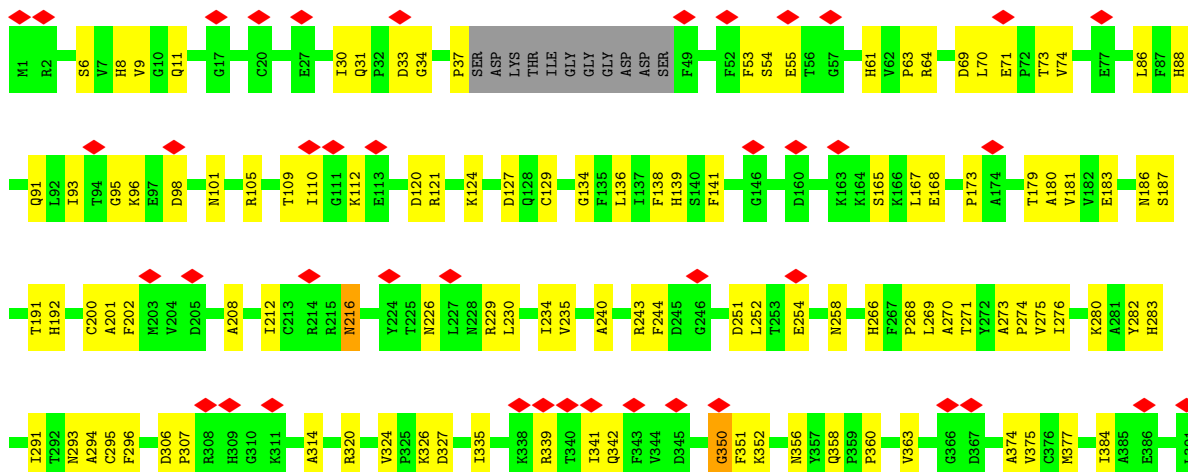




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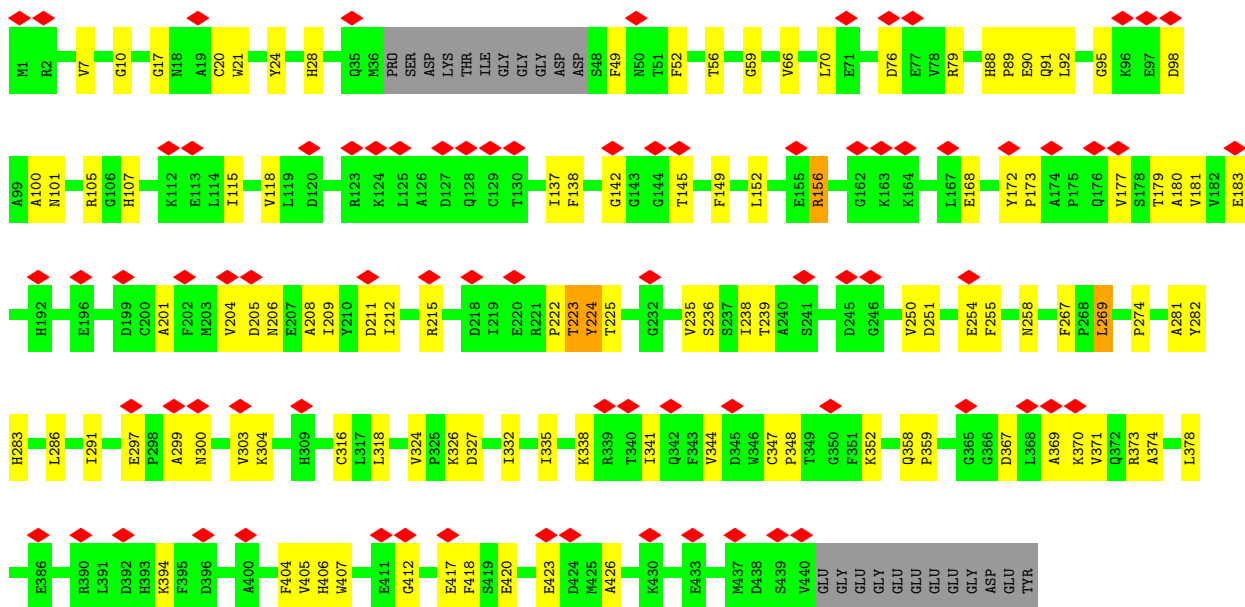


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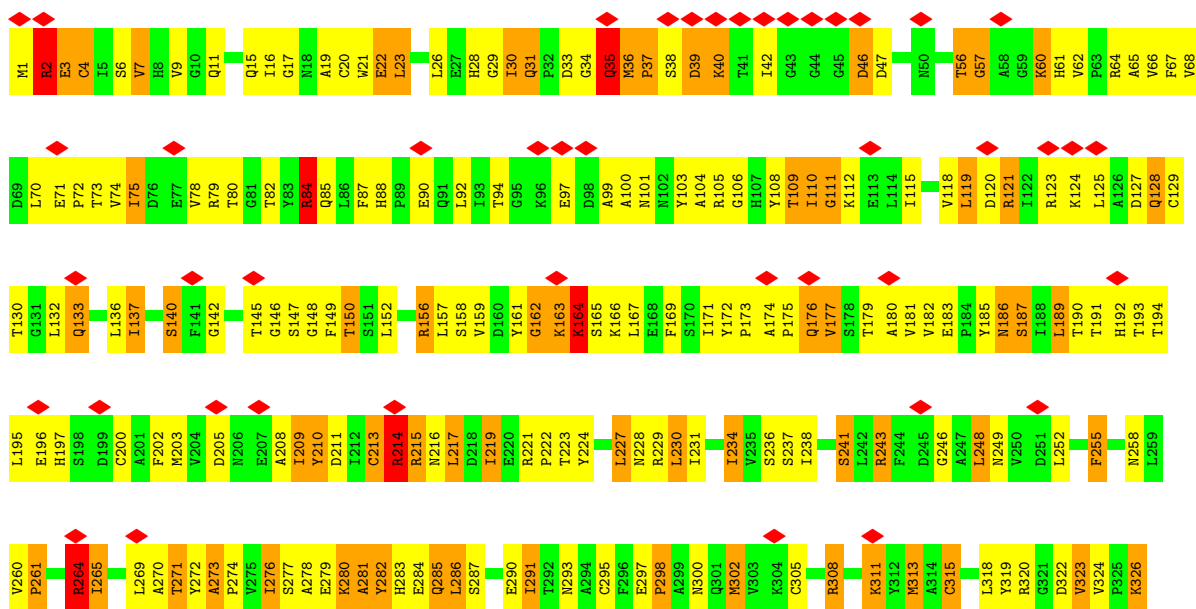


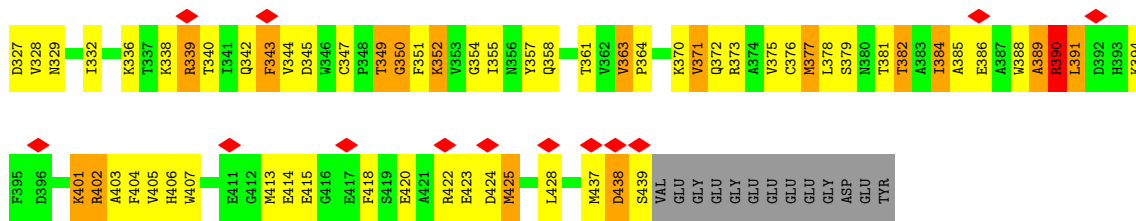


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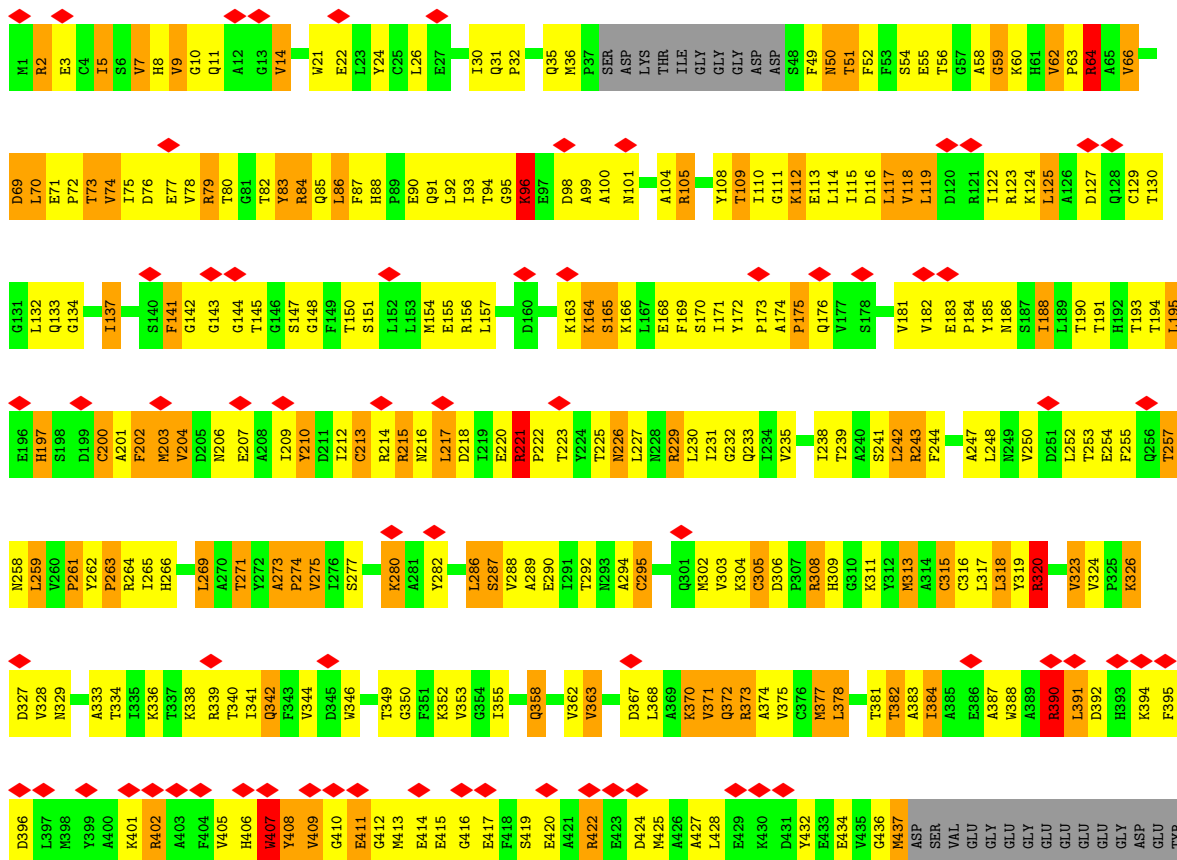


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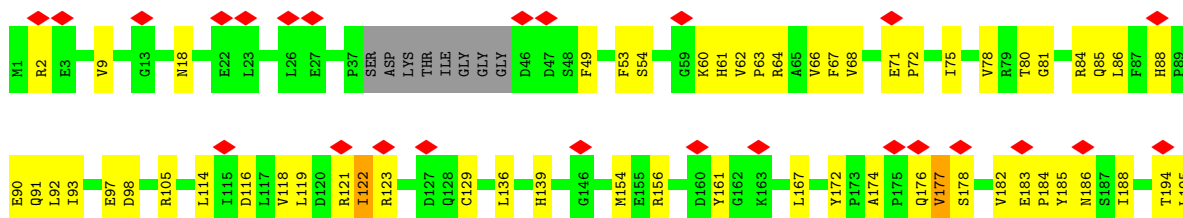


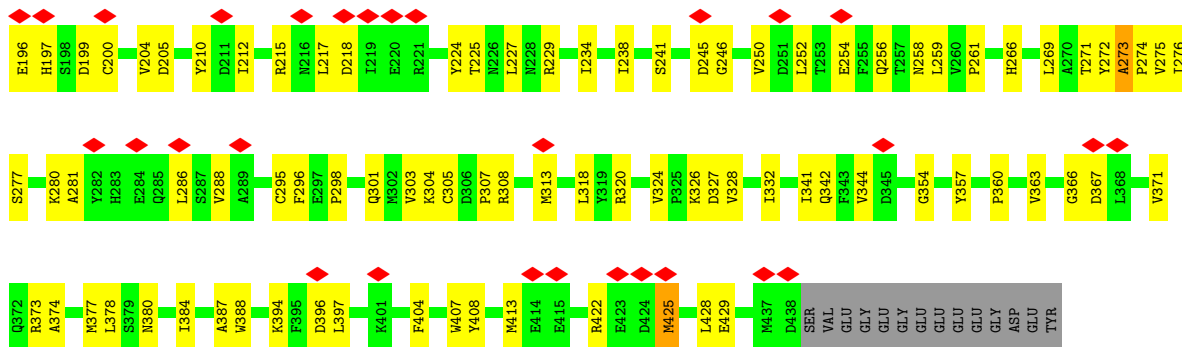


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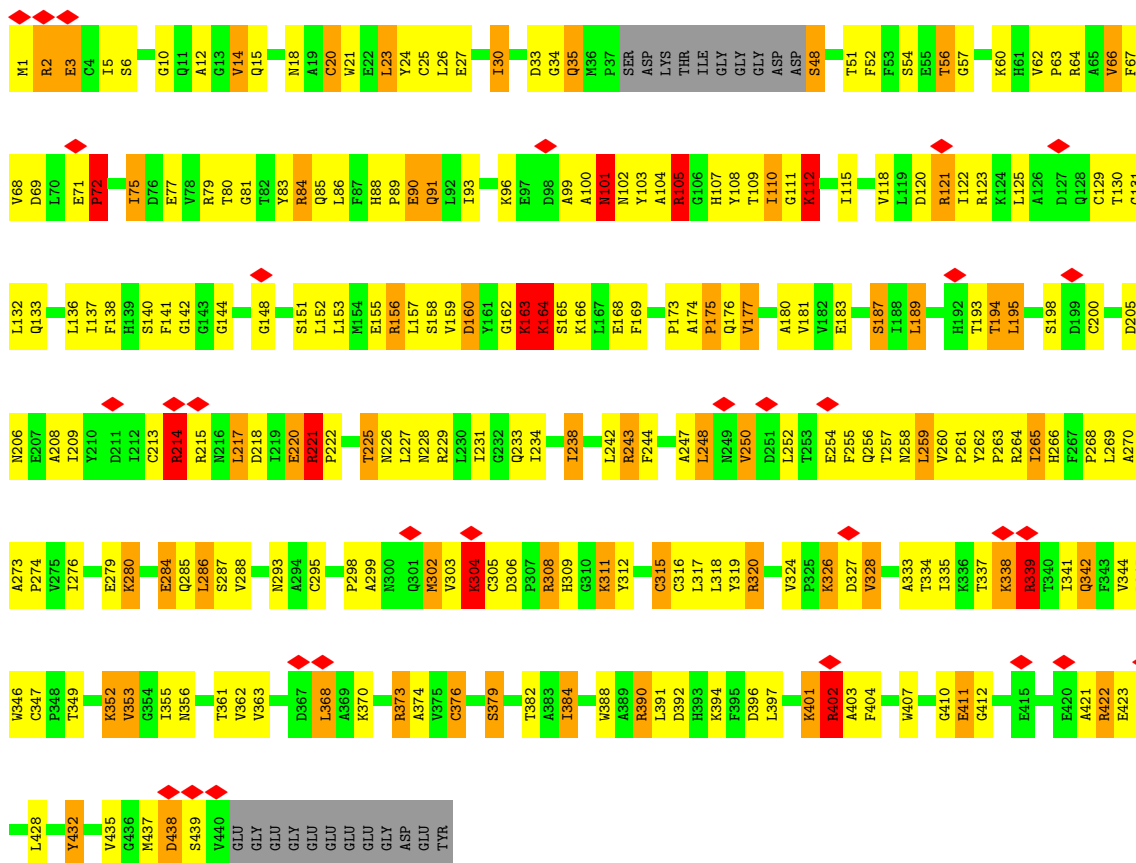


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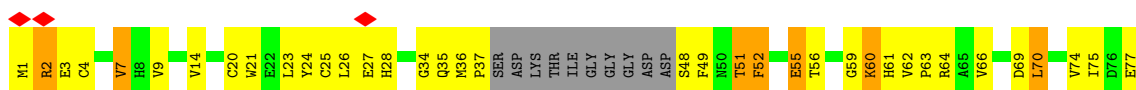


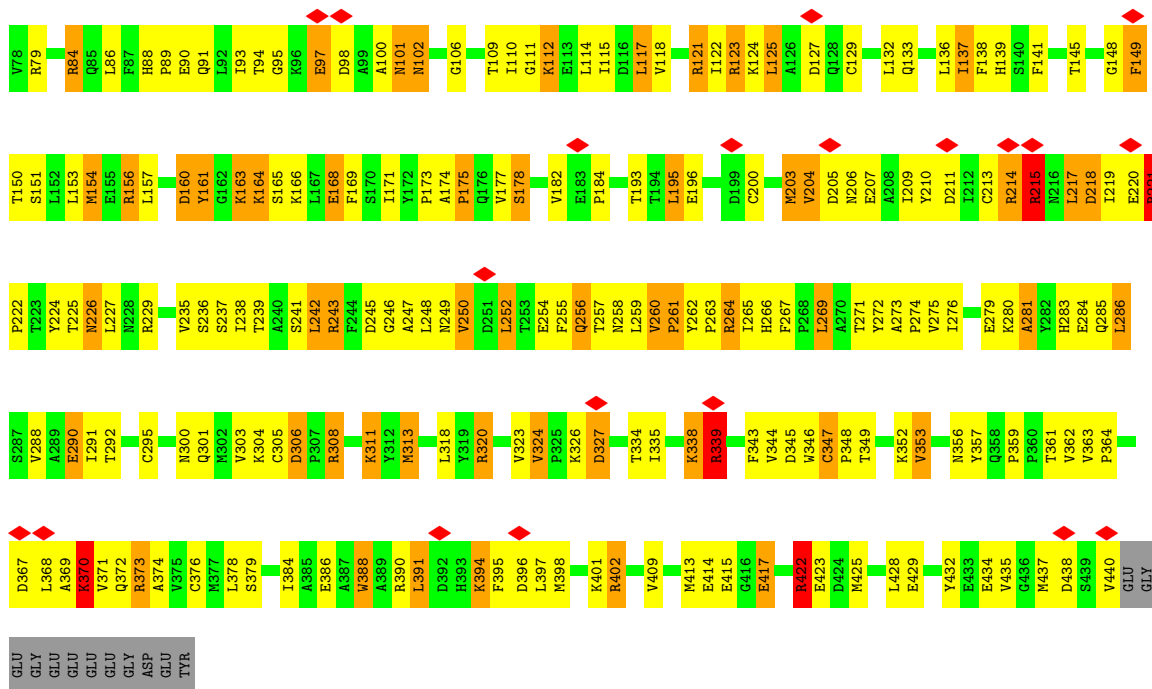


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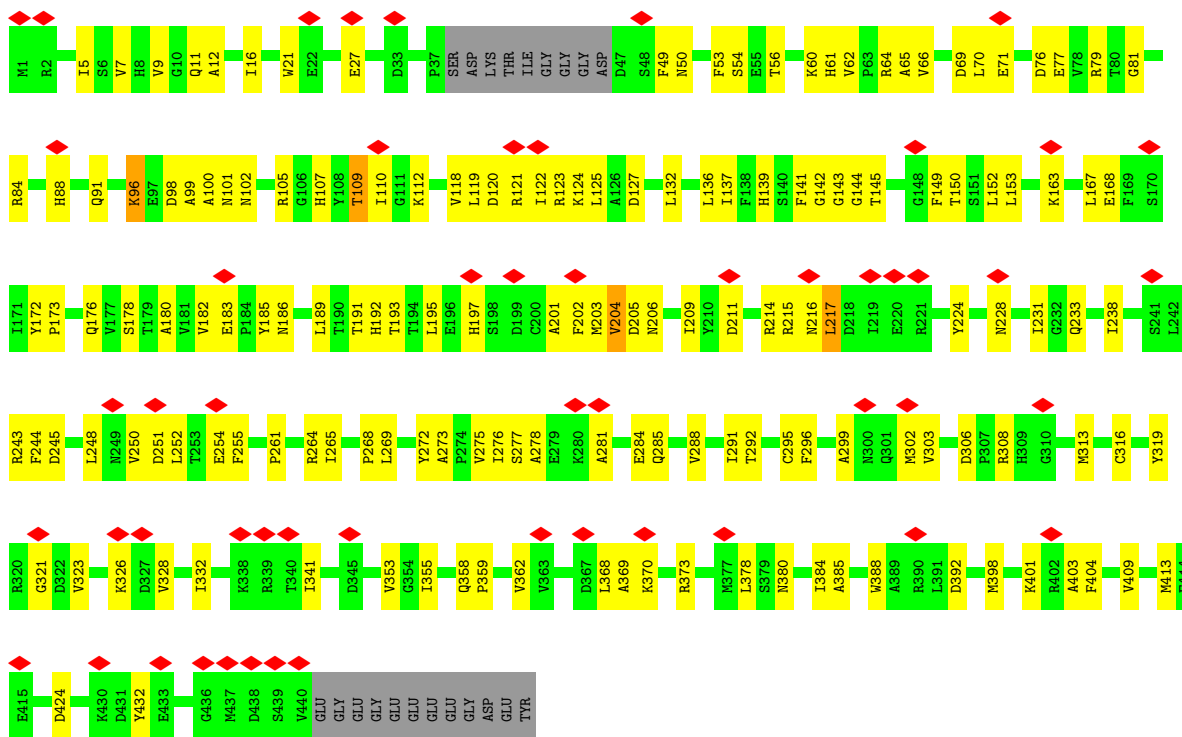


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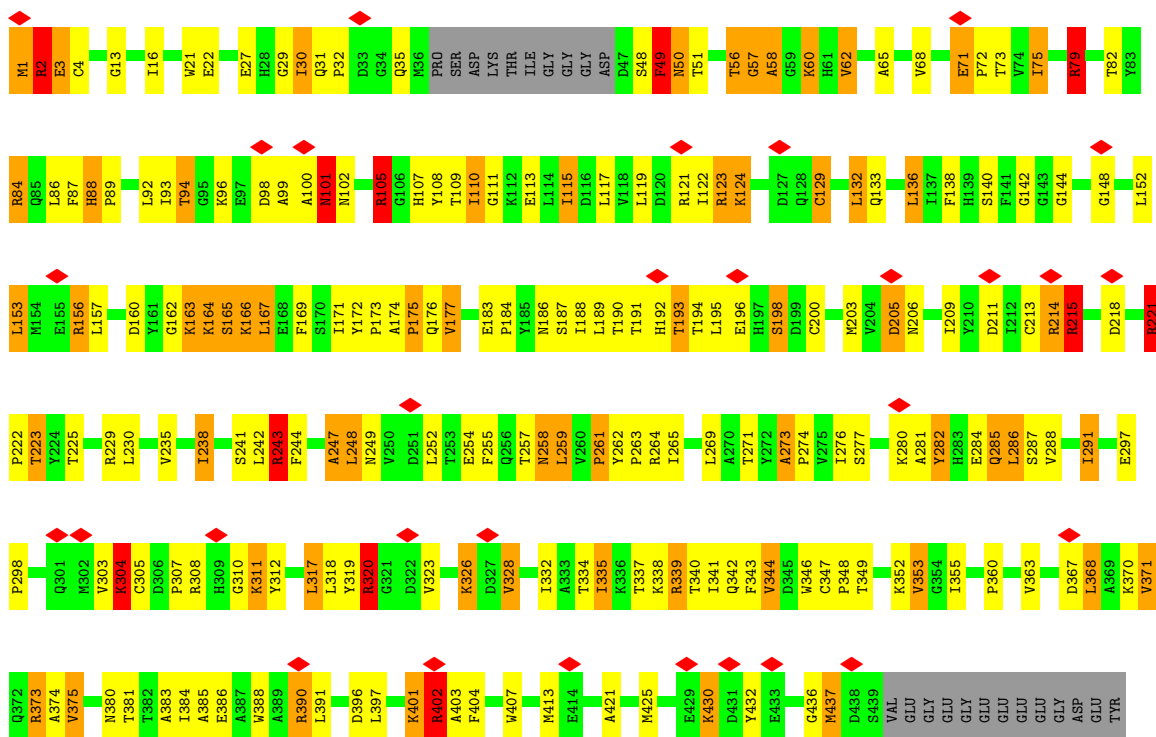


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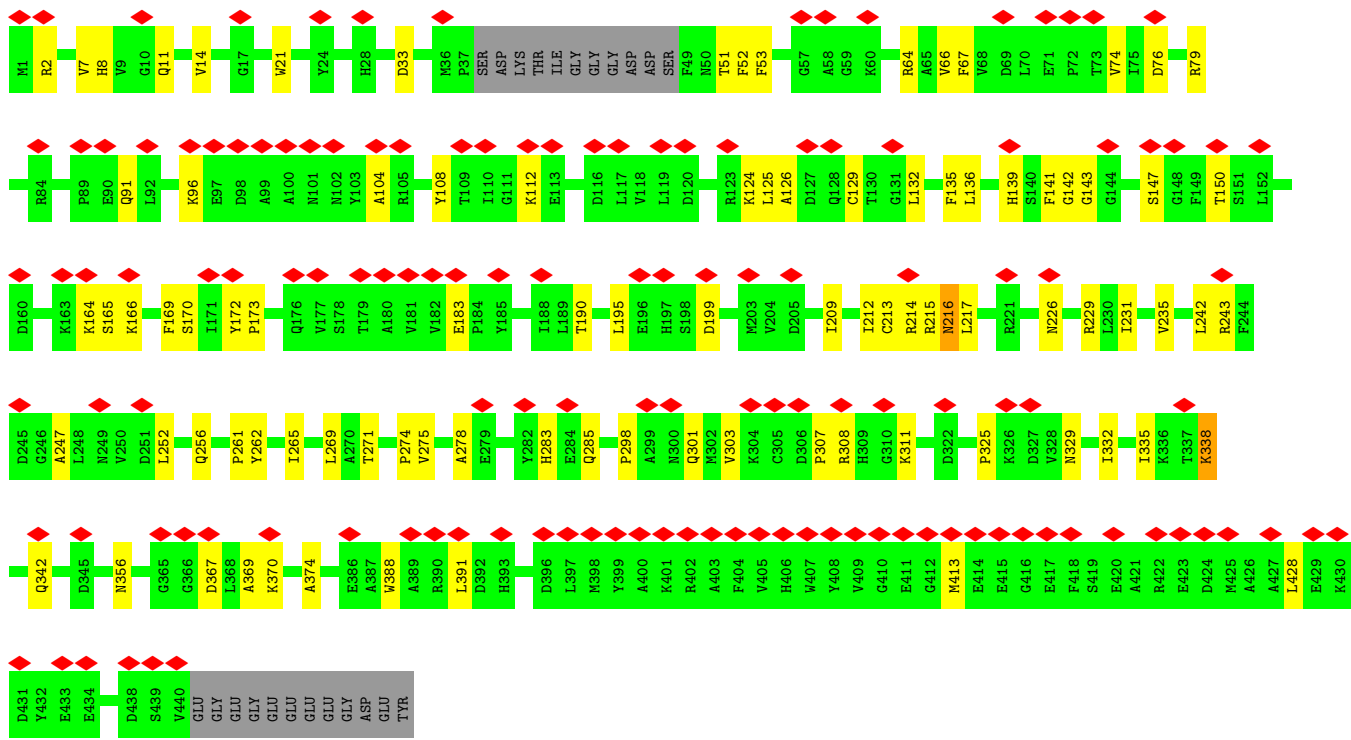
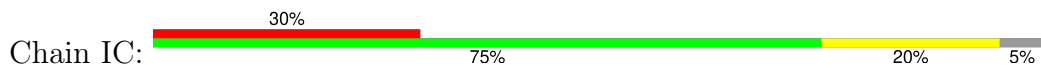


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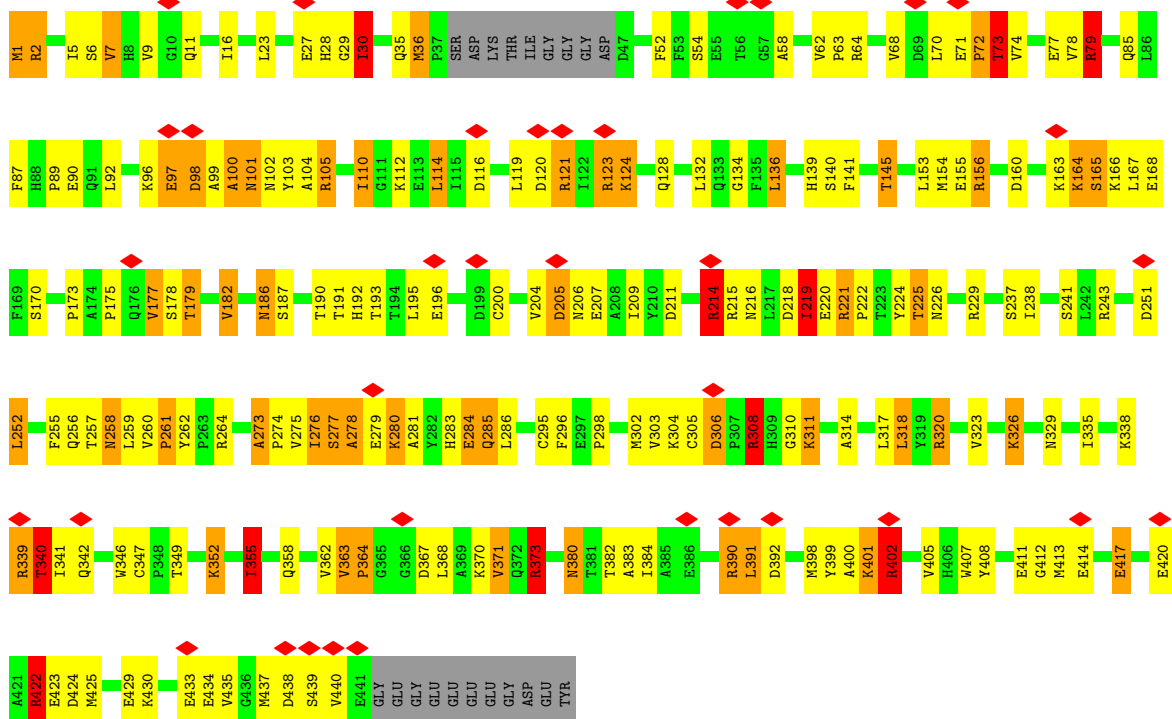




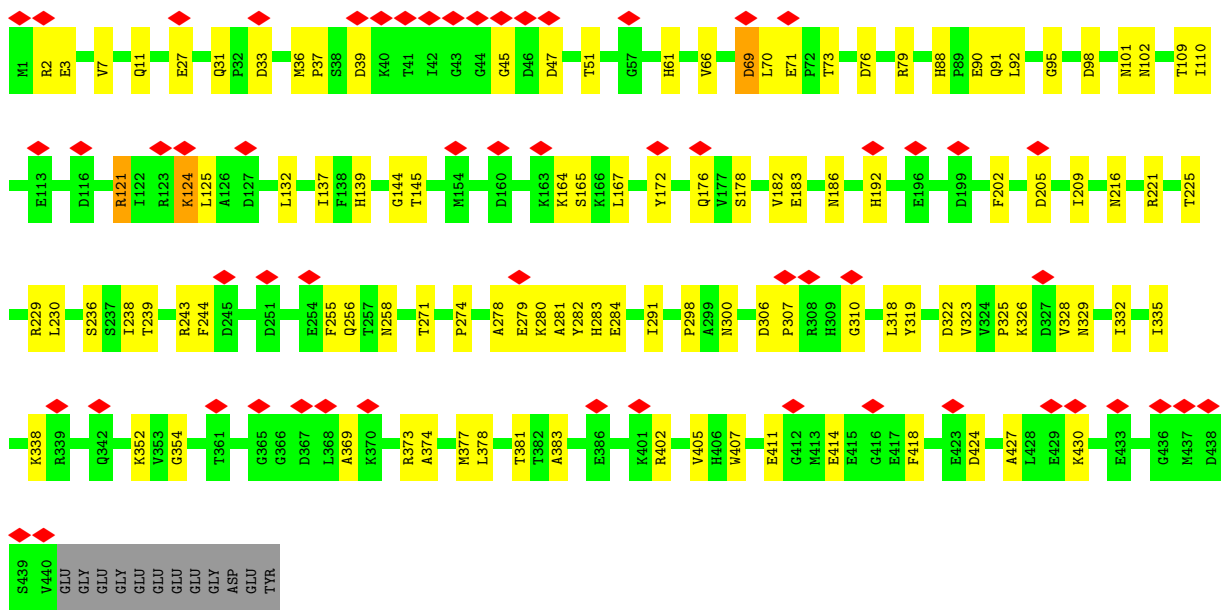
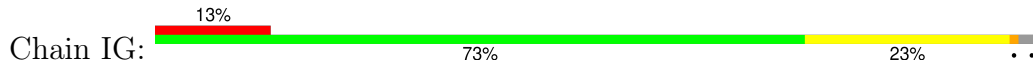
• Molecule 42: Tubulin alpha-1D chain



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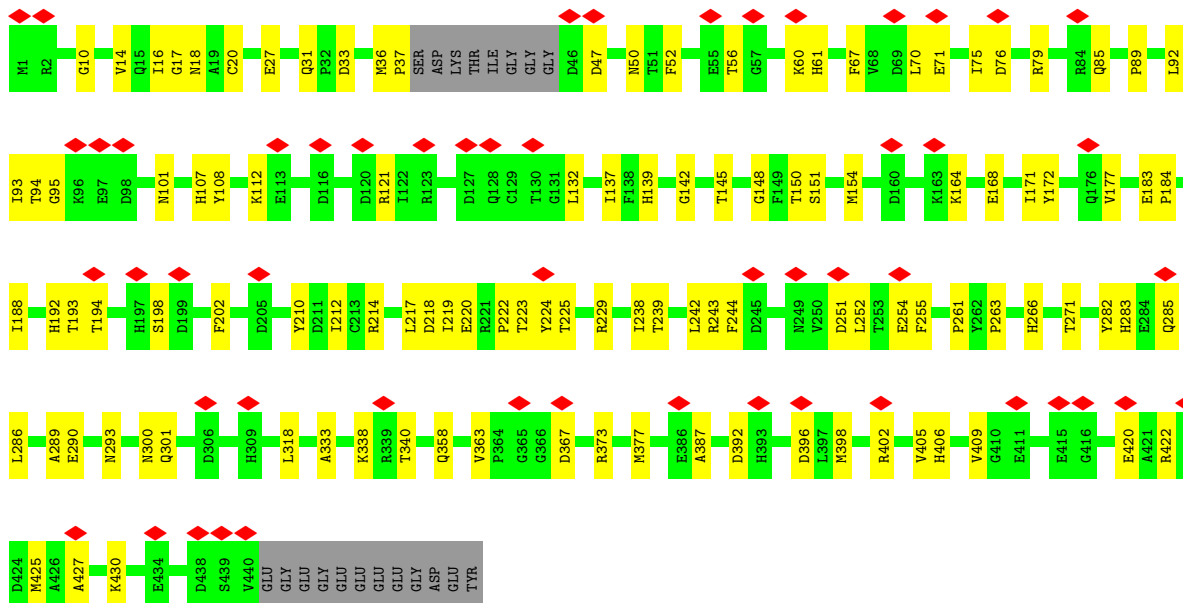


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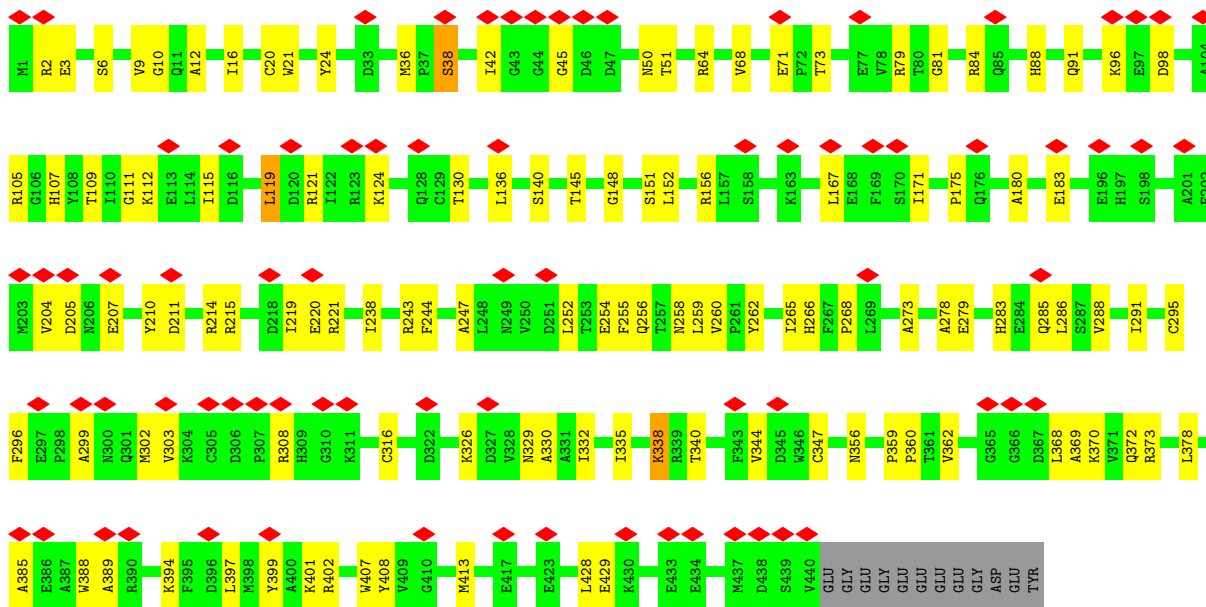


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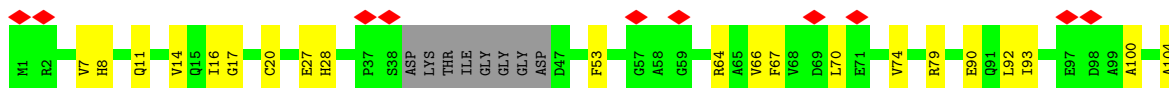


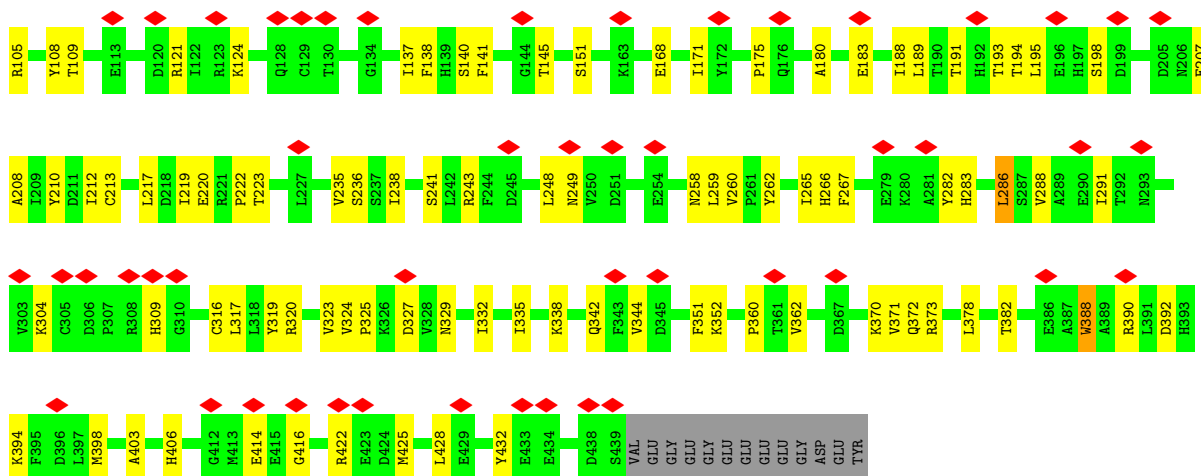


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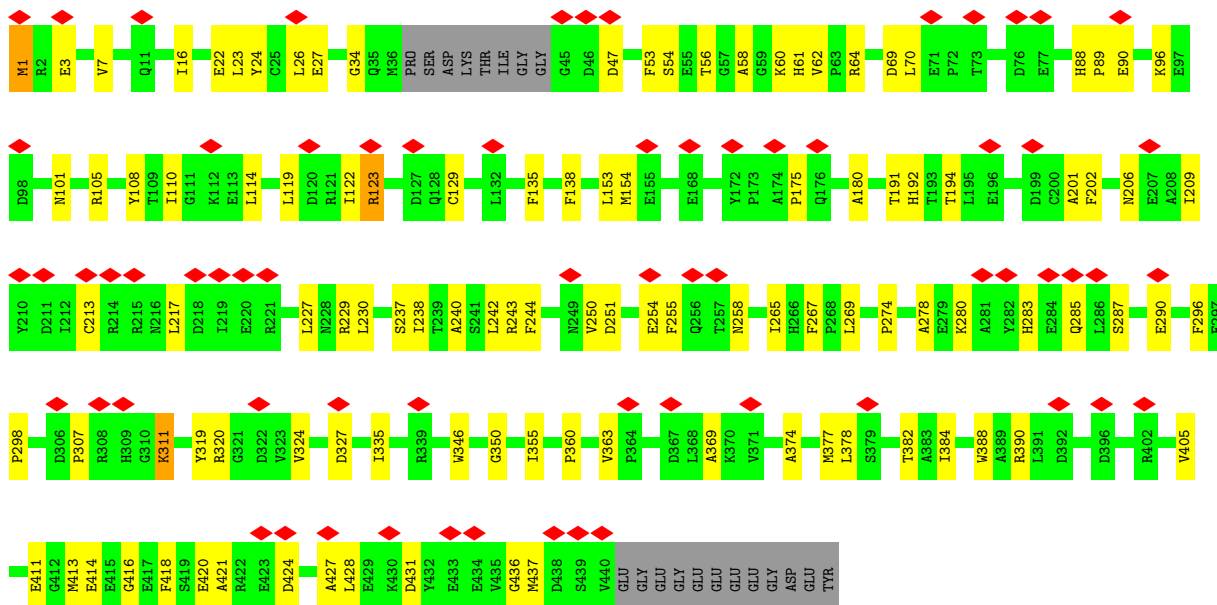
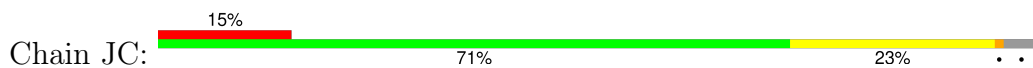


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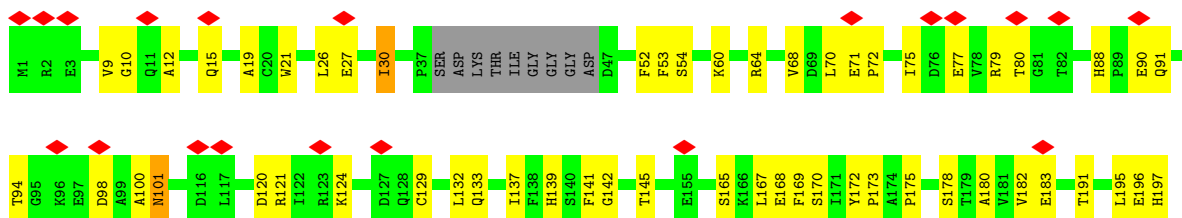


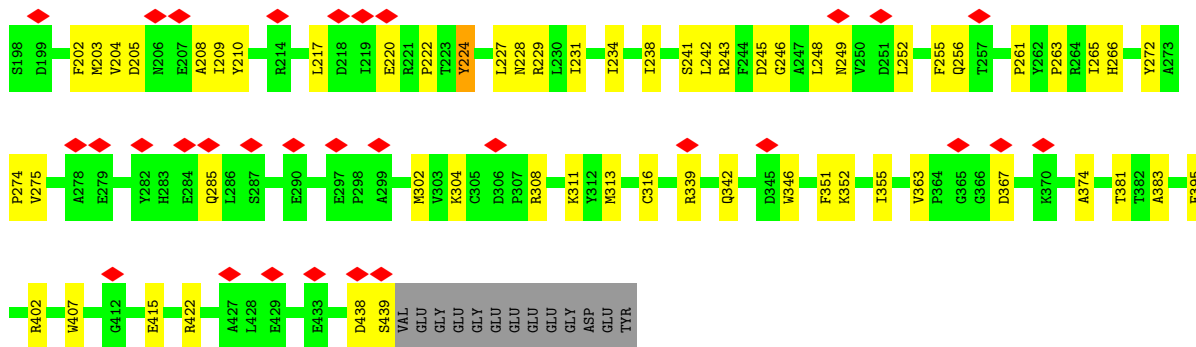


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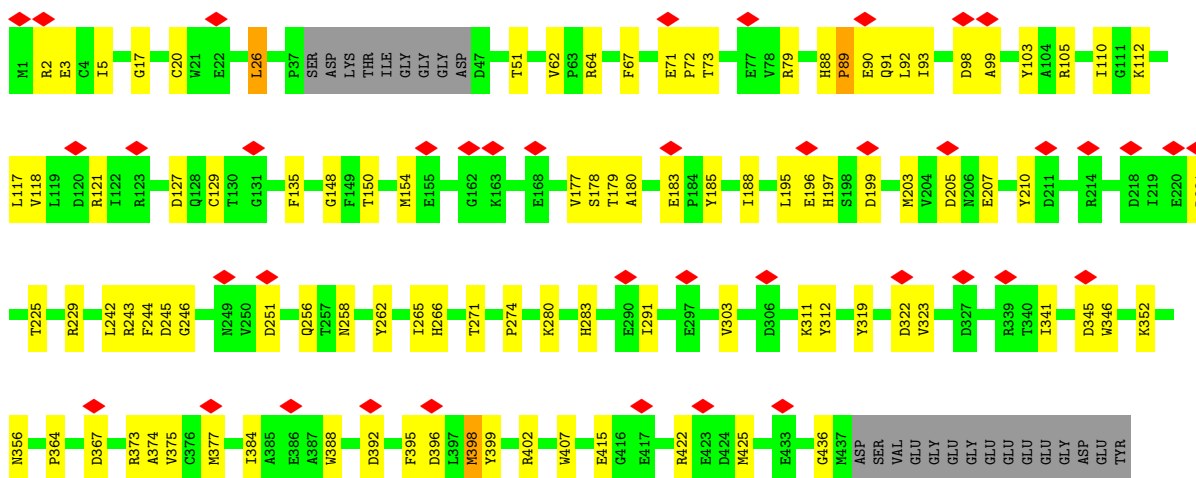
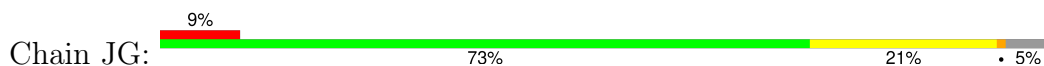


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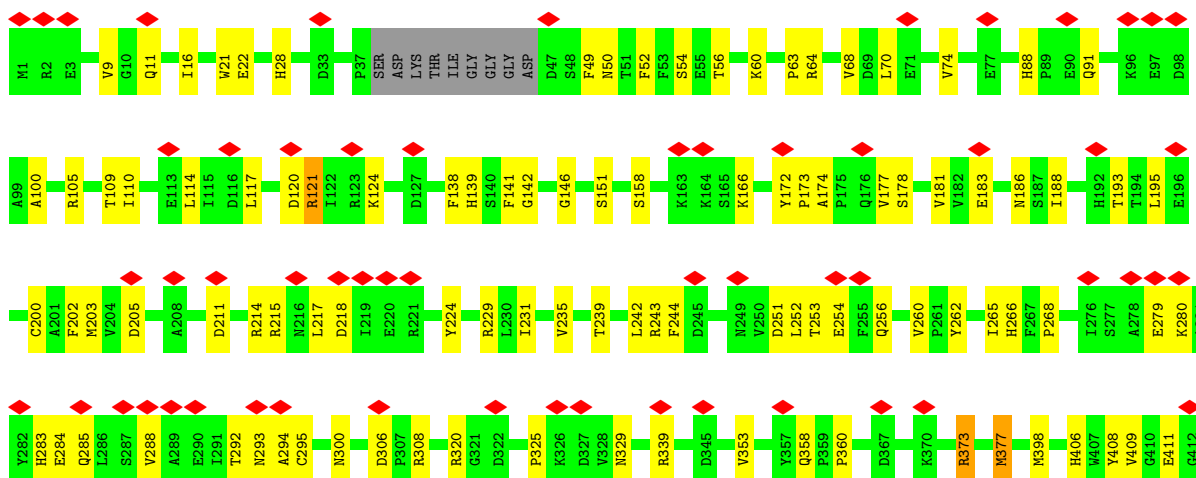




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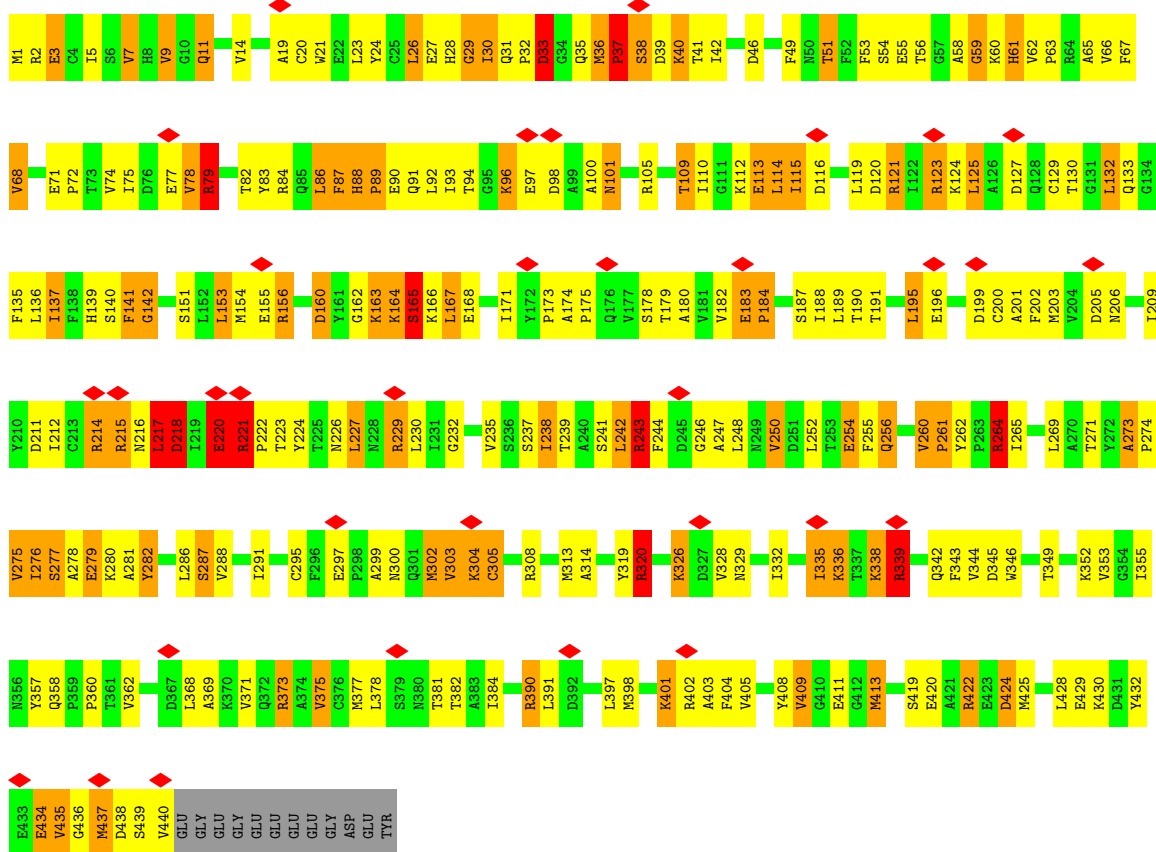


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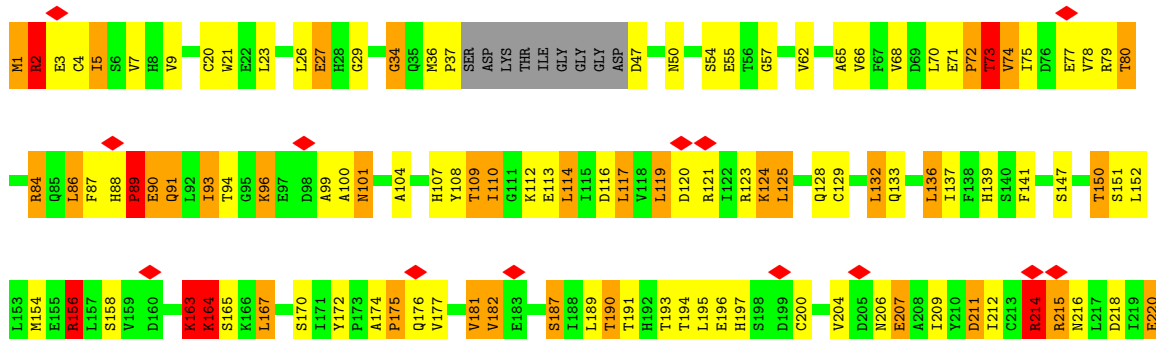


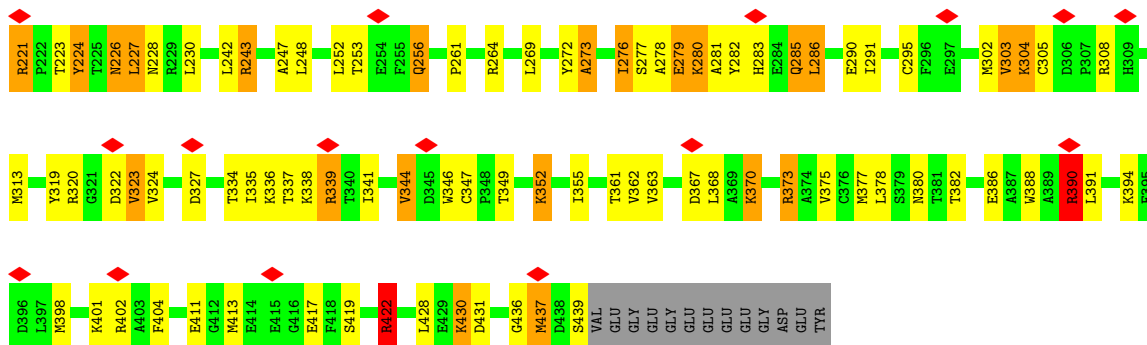


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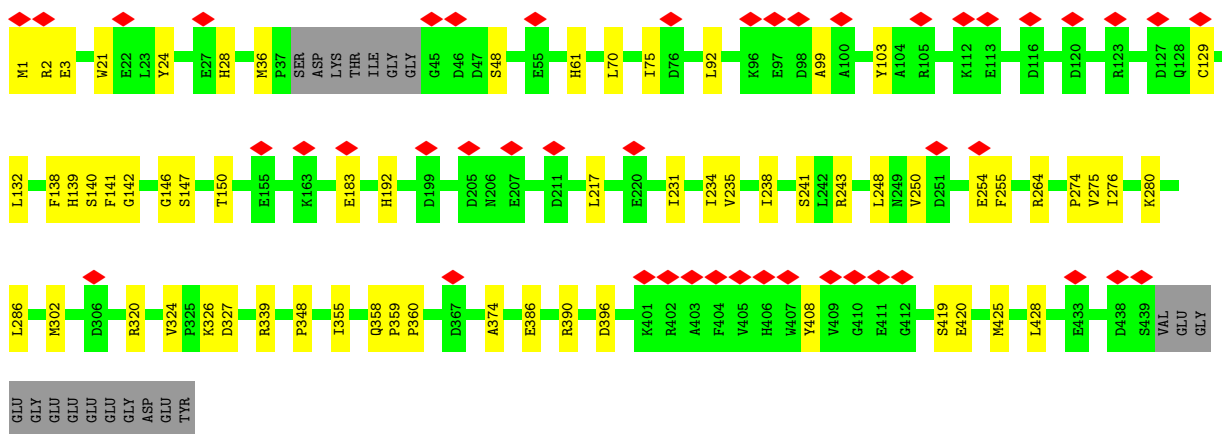
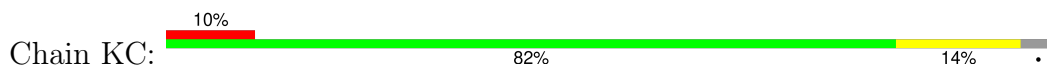


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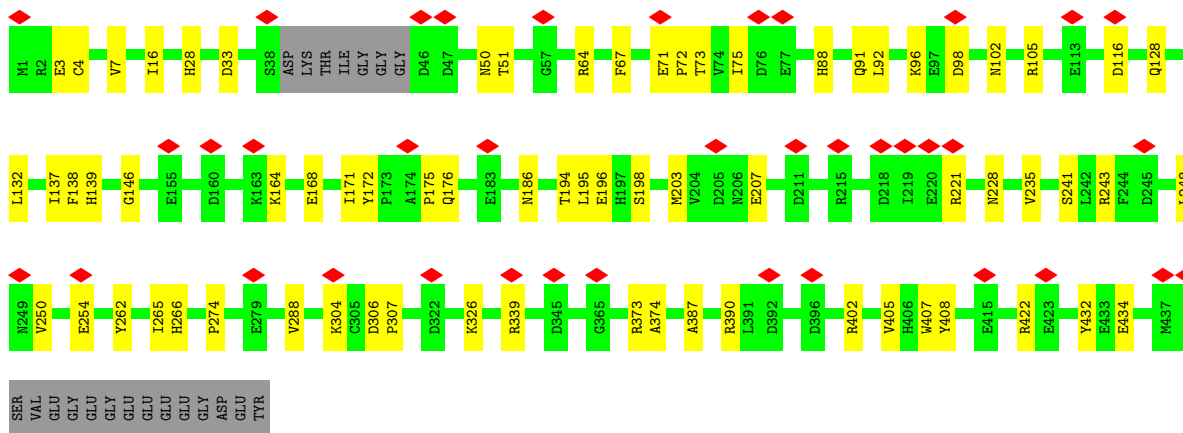
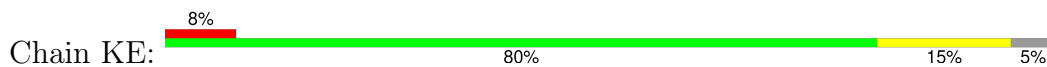




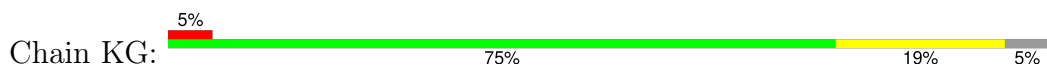
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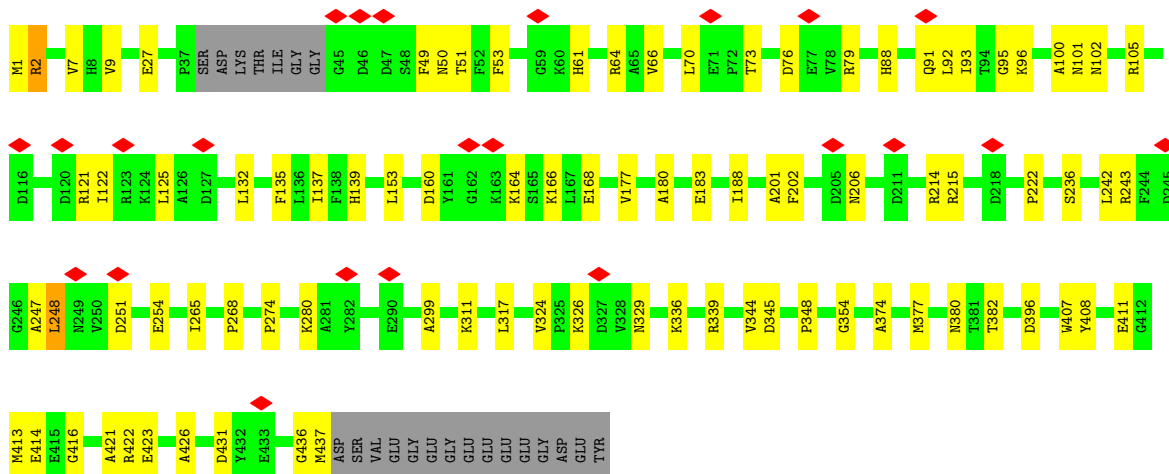


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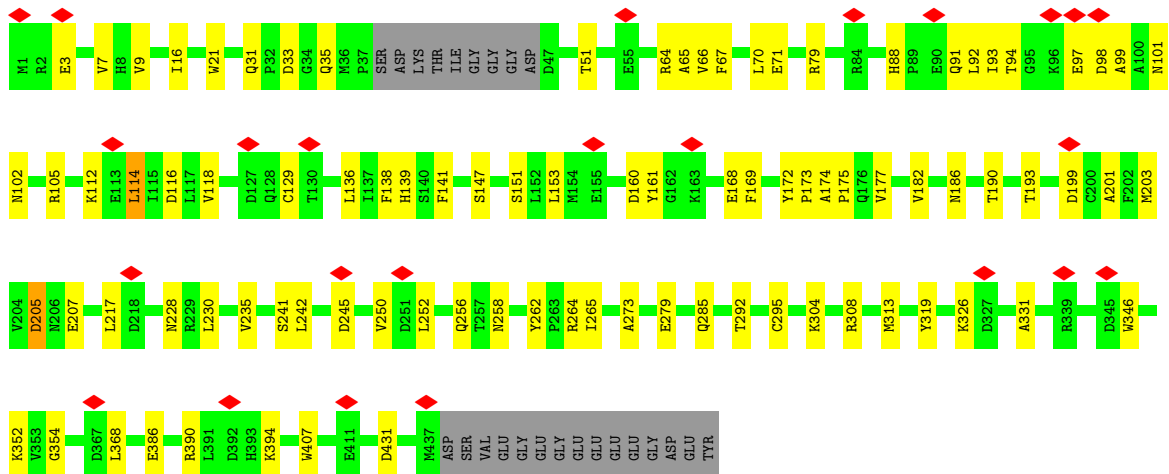
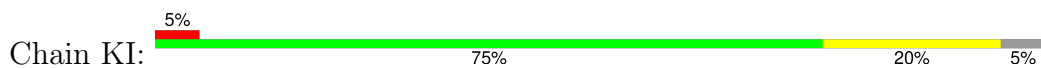


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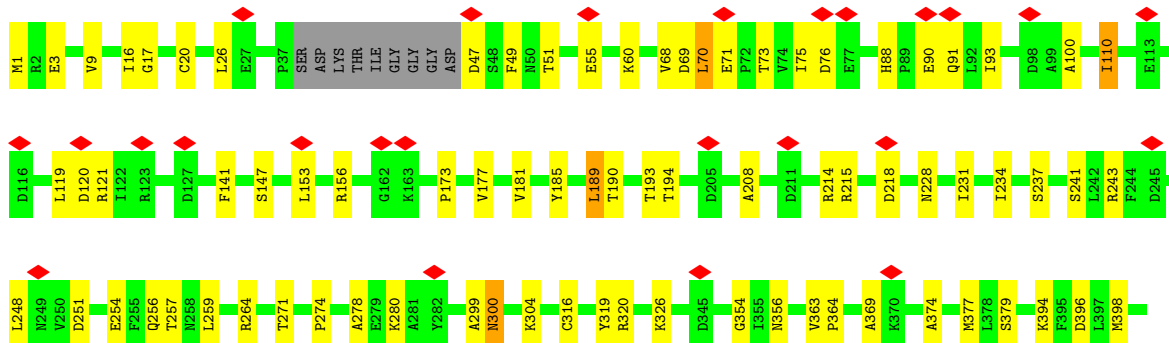
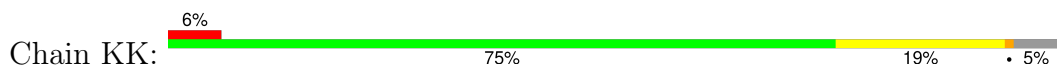


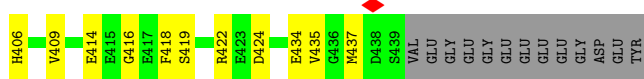


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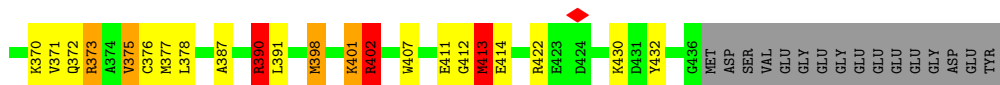
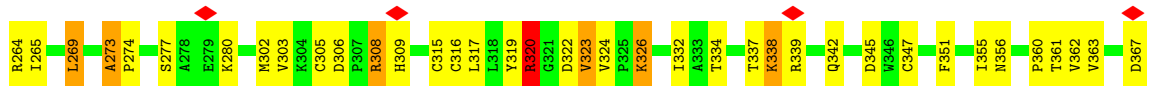
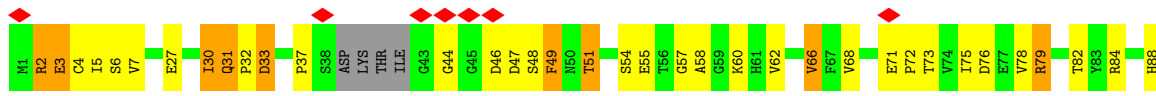


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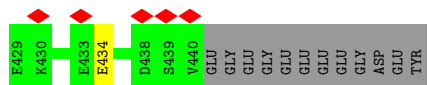
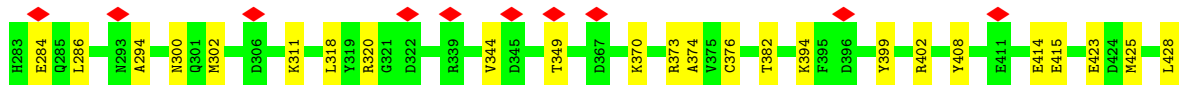
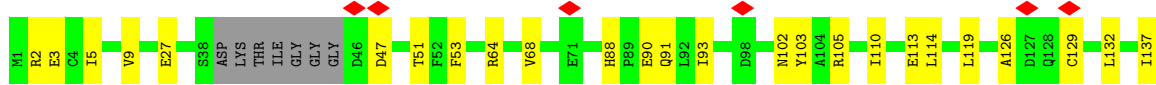
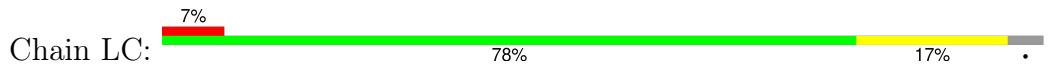




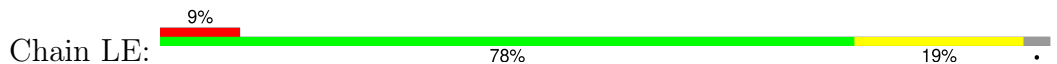
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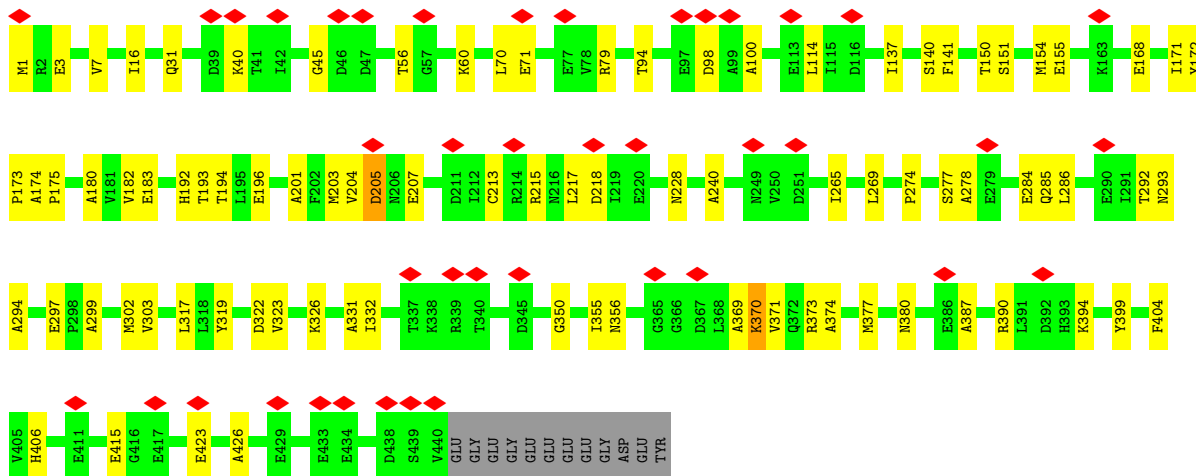


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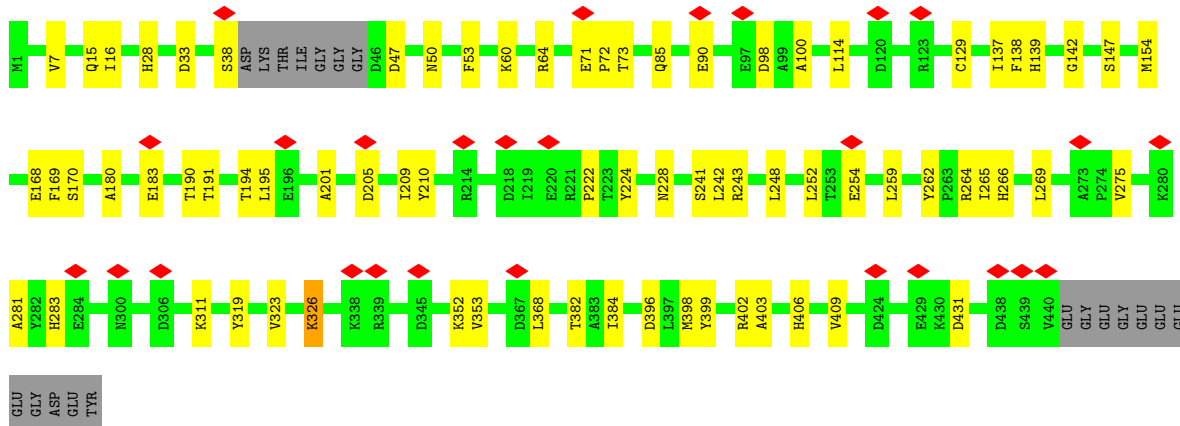
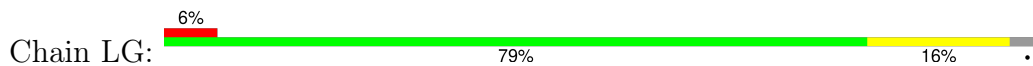


• Molecule 42: Tubulin alpha-1D chain

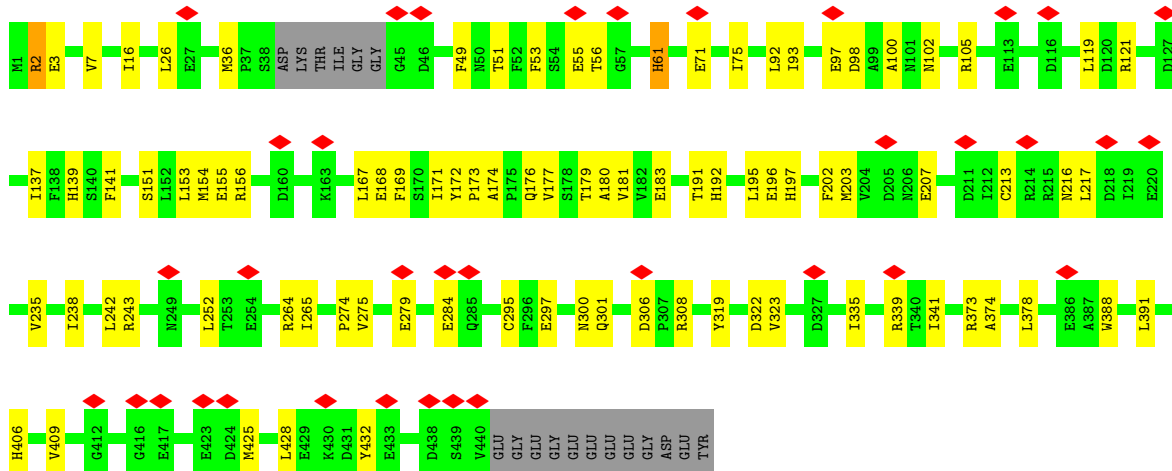
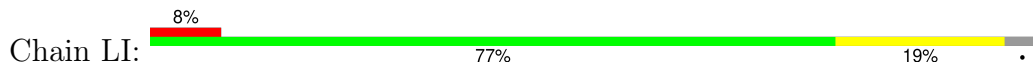




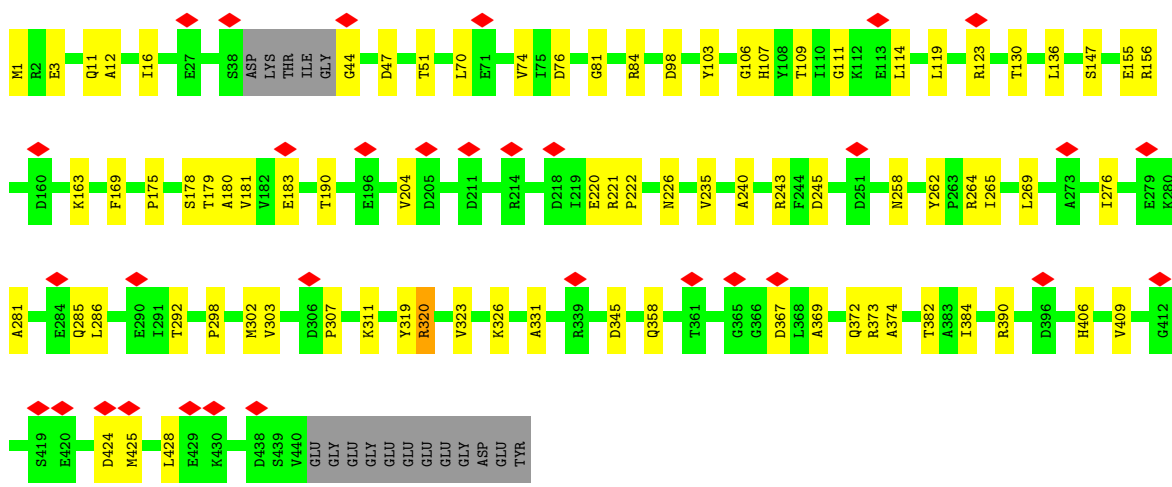
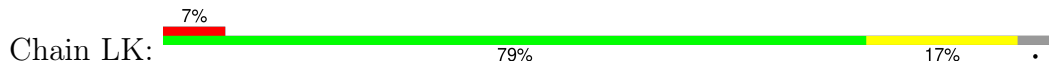
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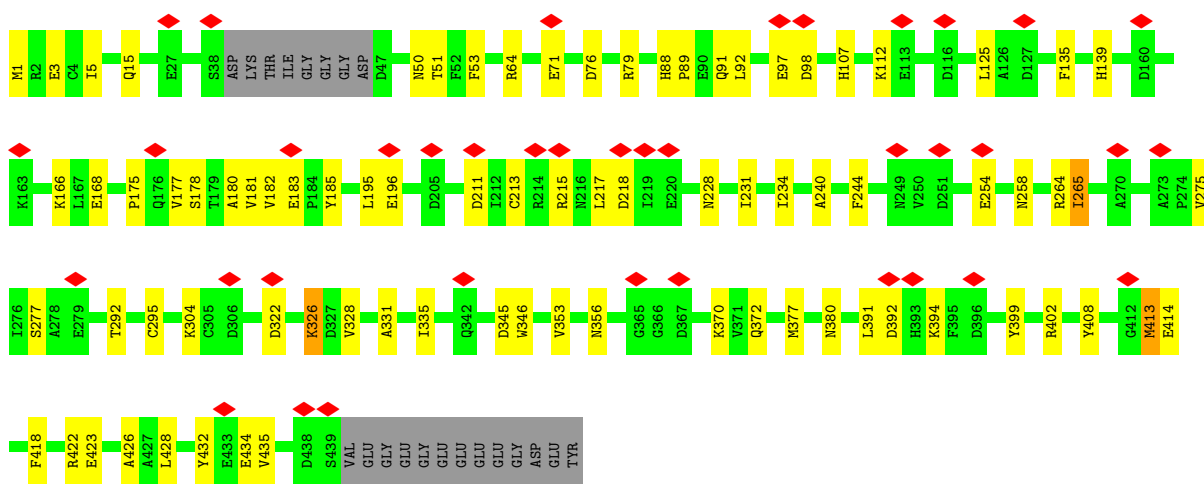
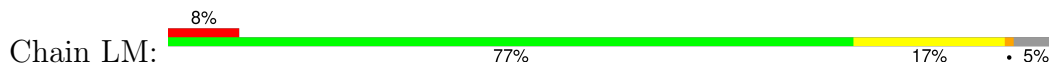
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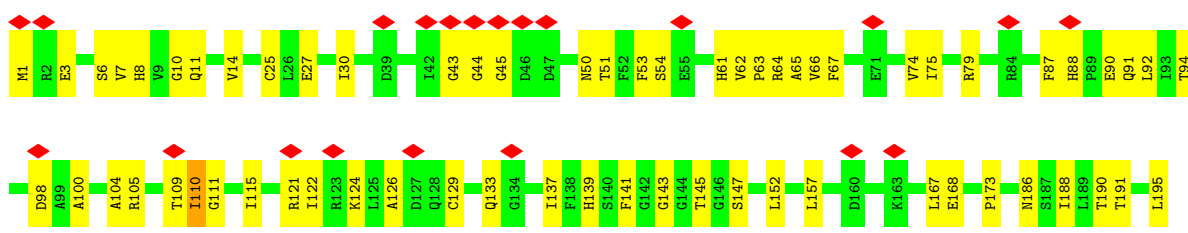
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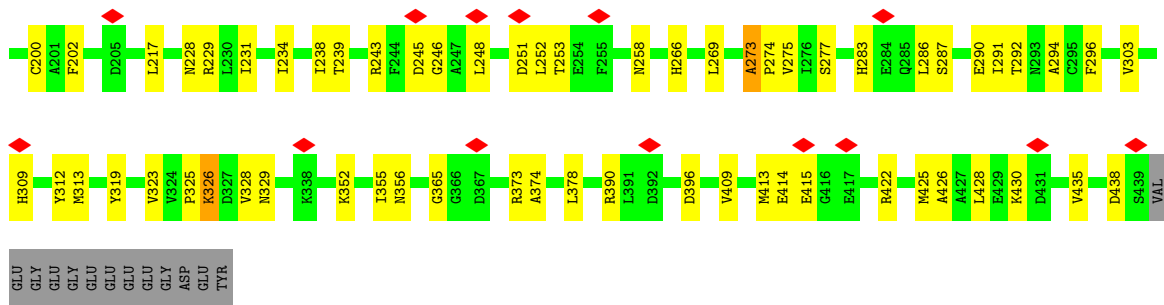


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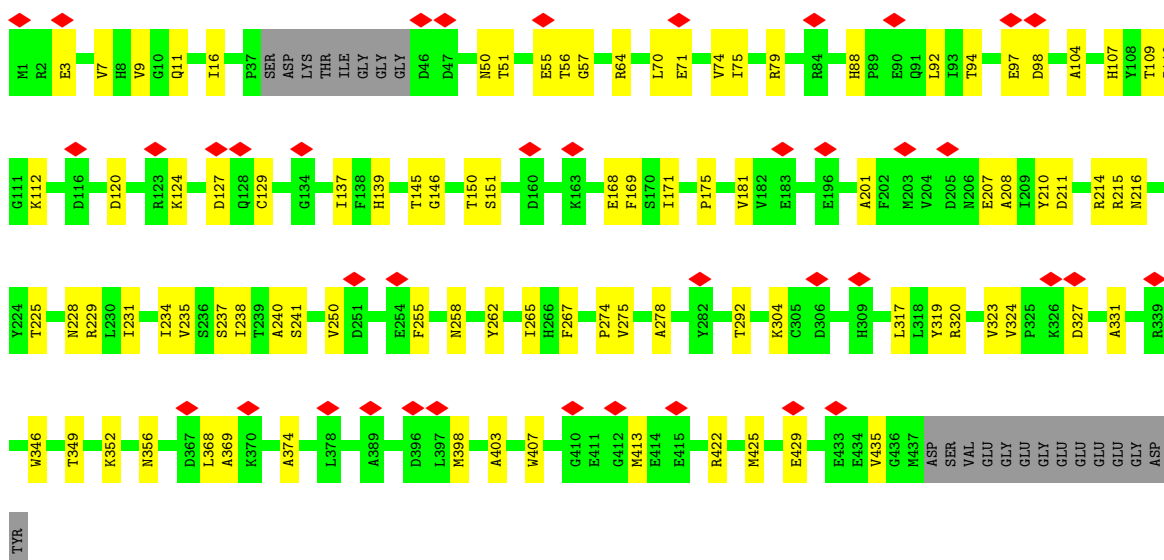
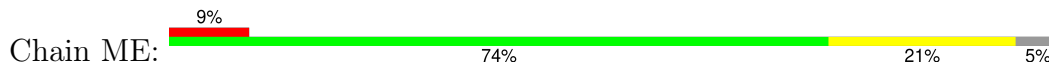


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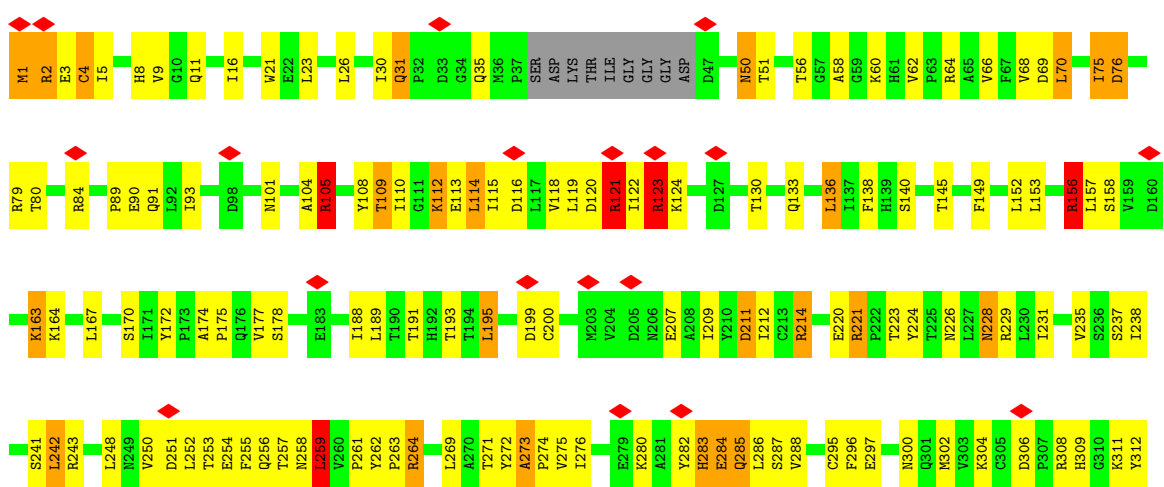


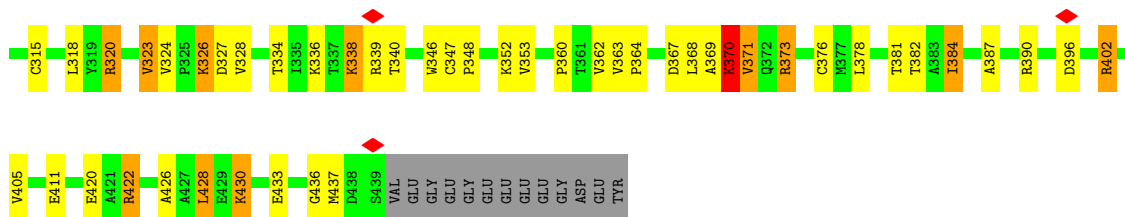


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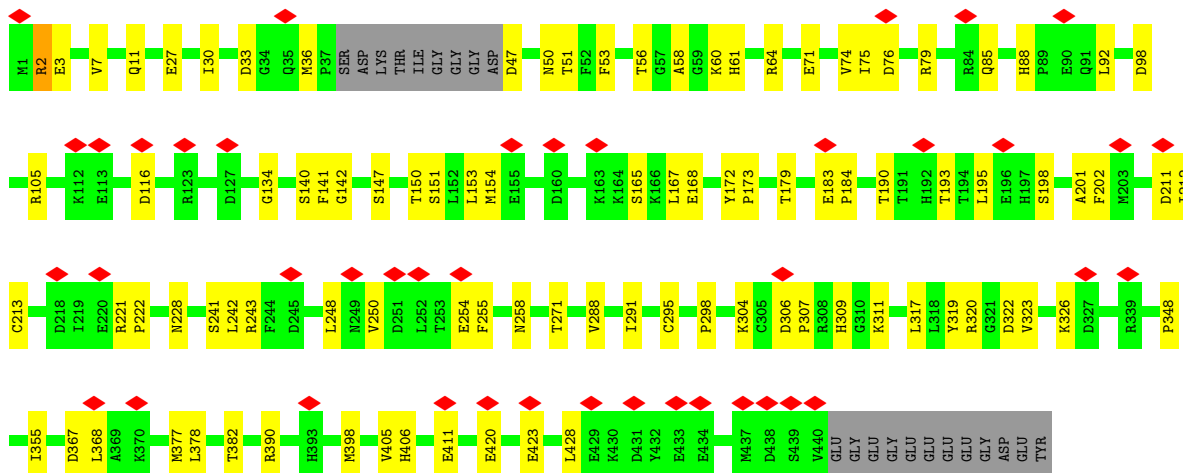
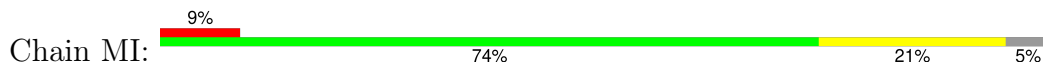


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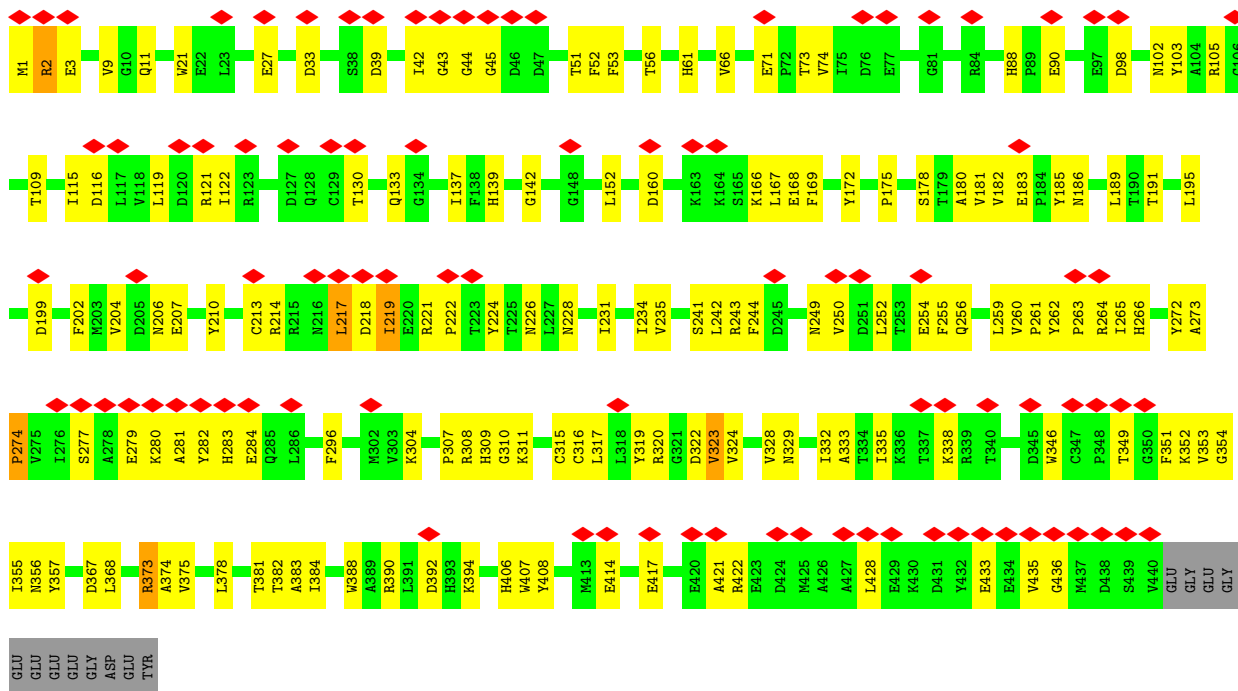




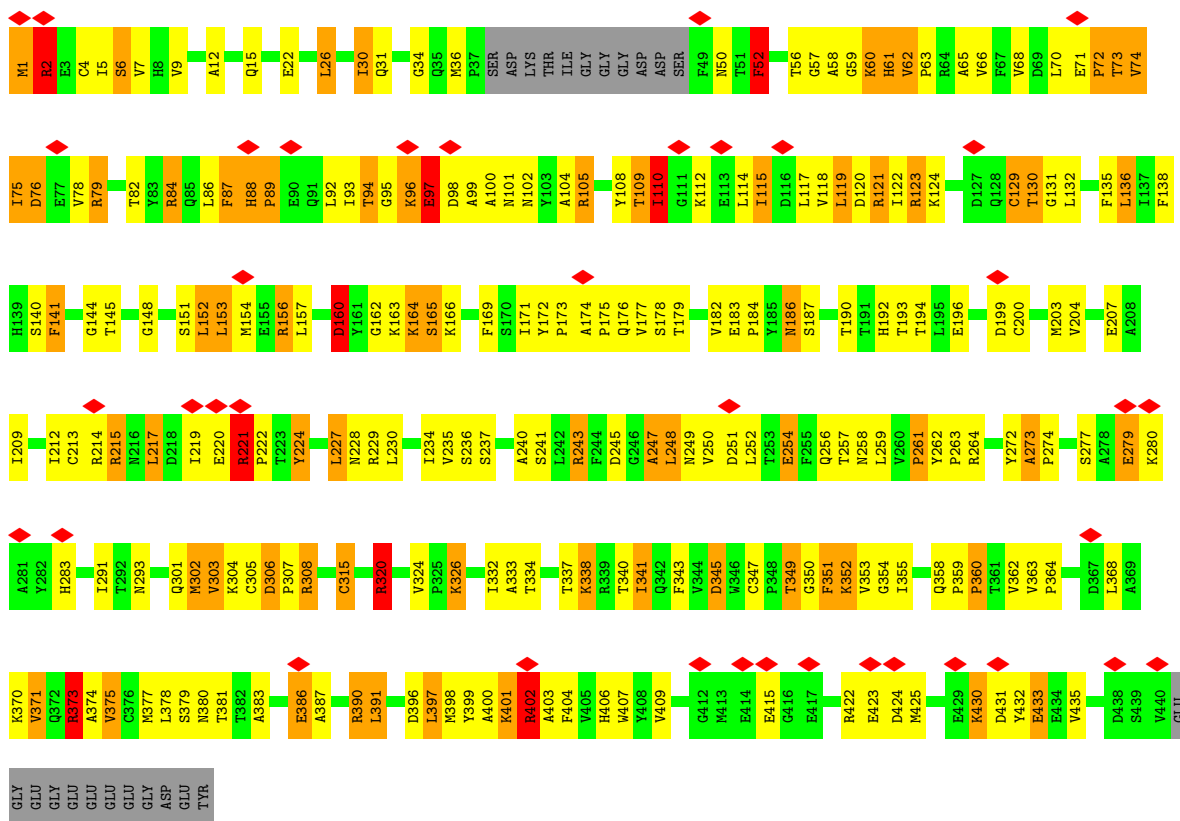
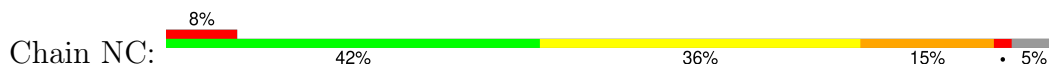
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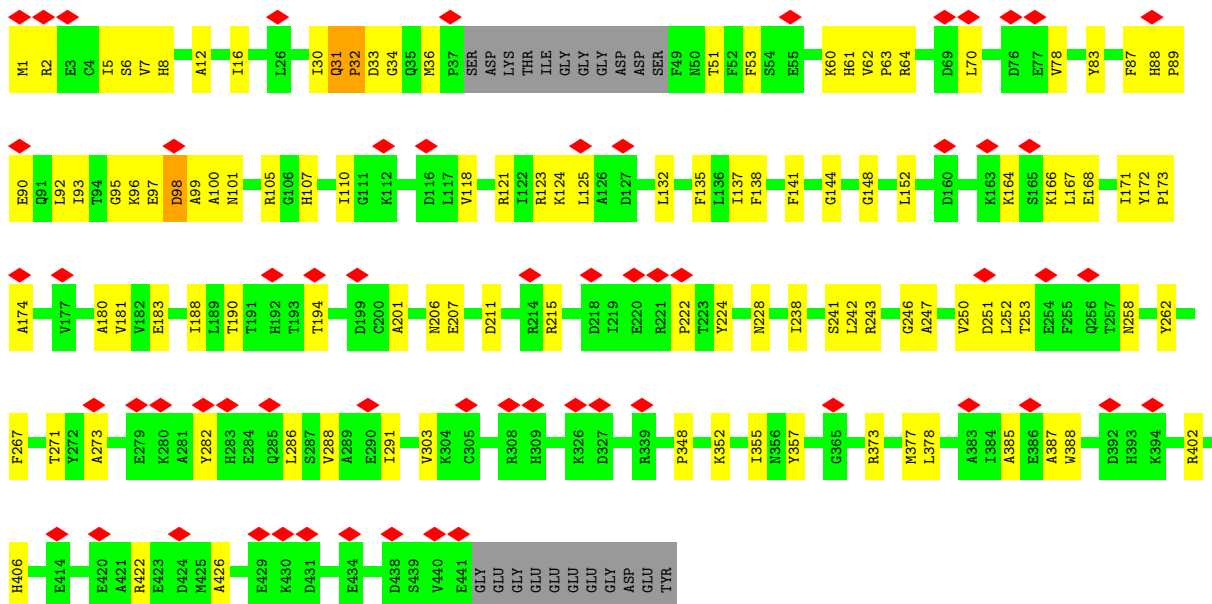
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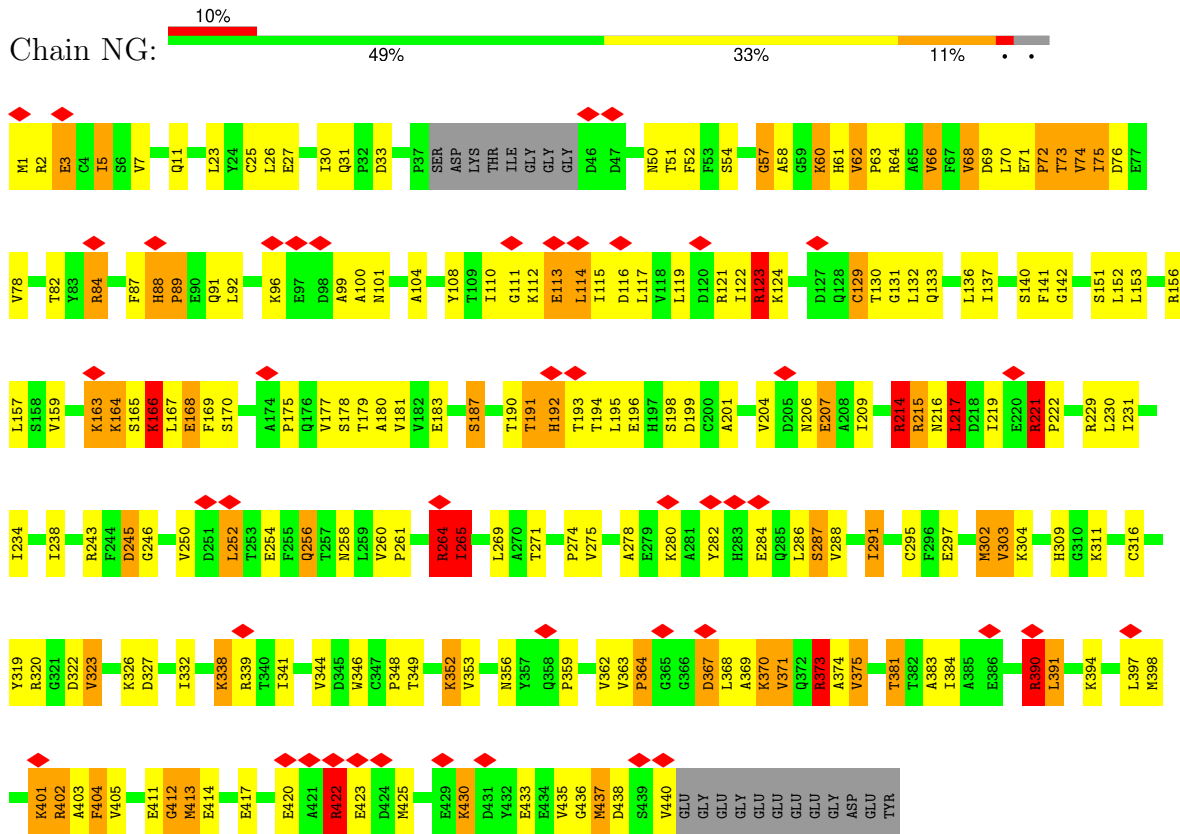
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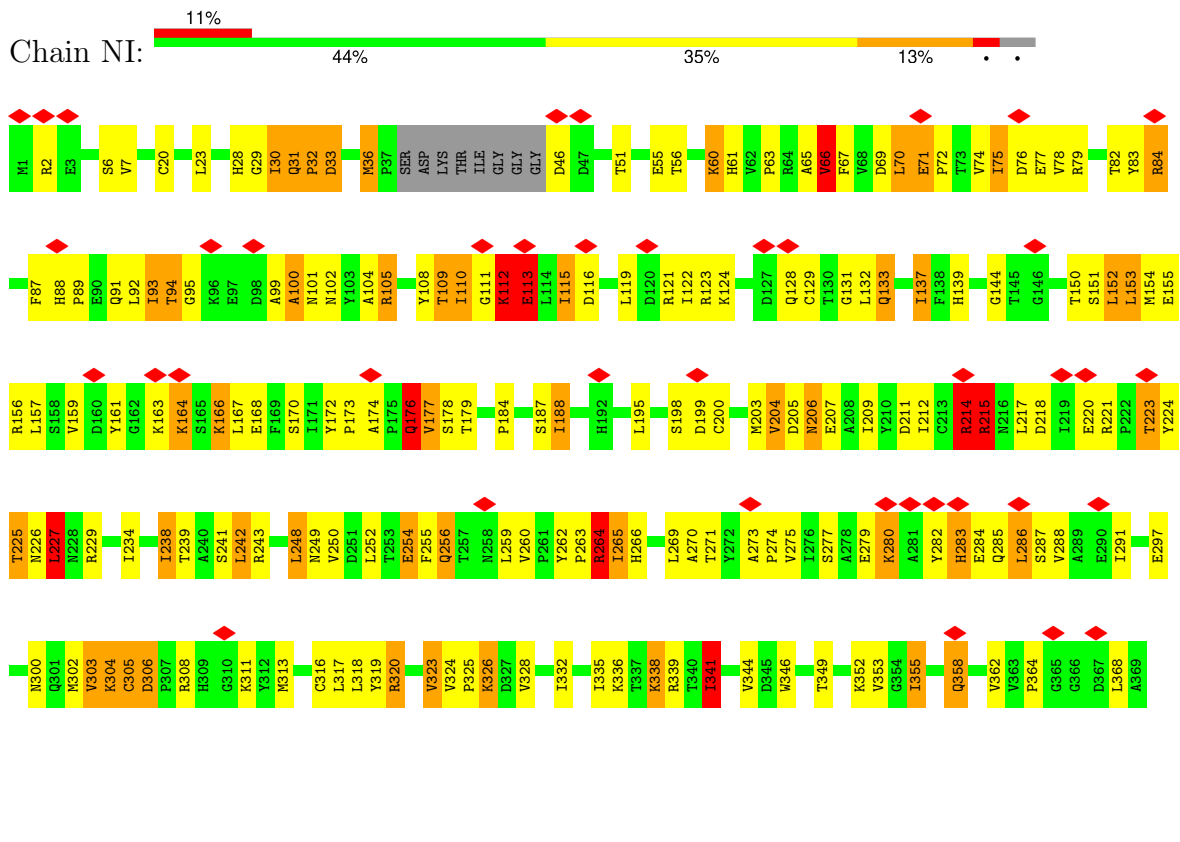
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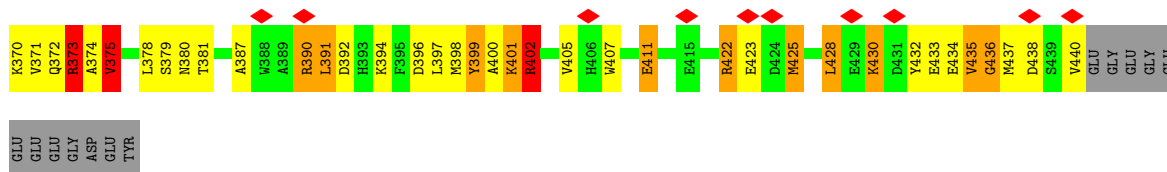


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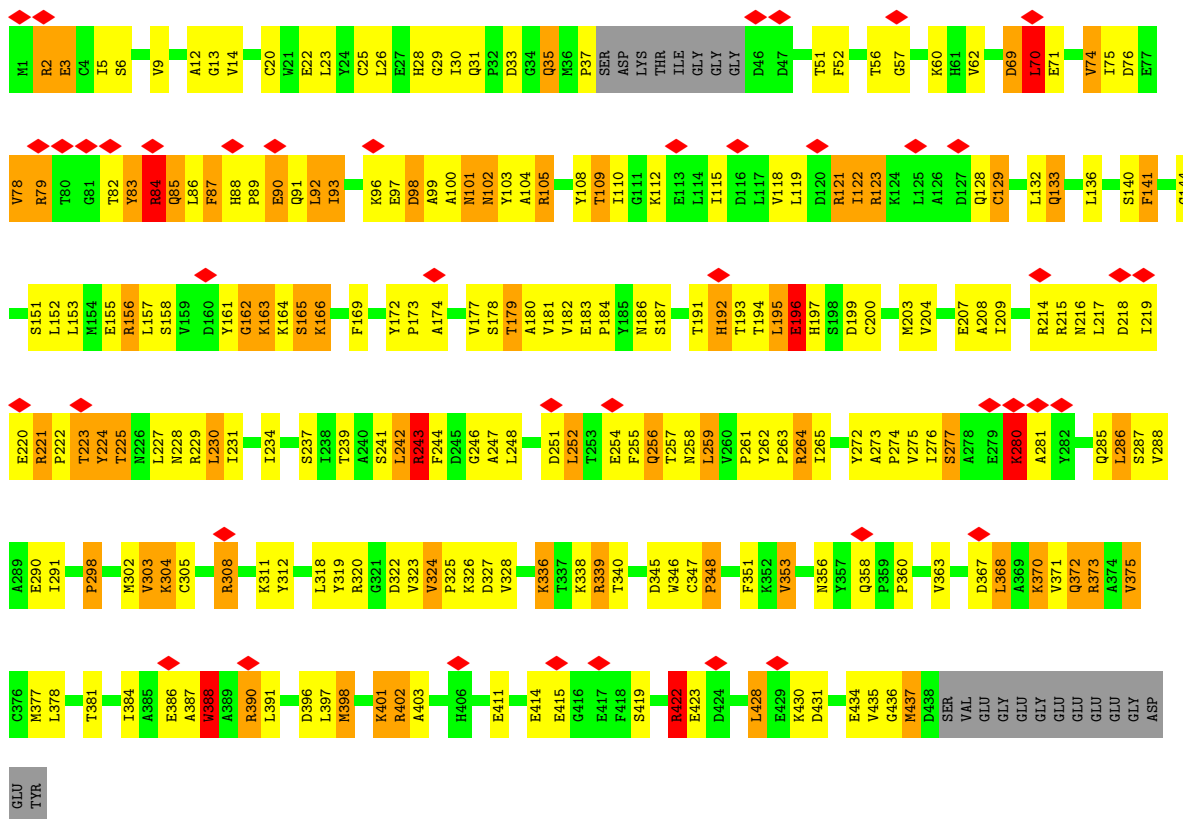
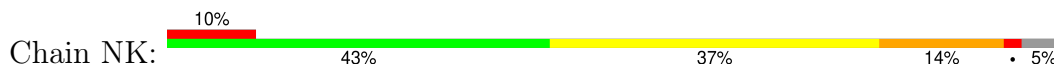


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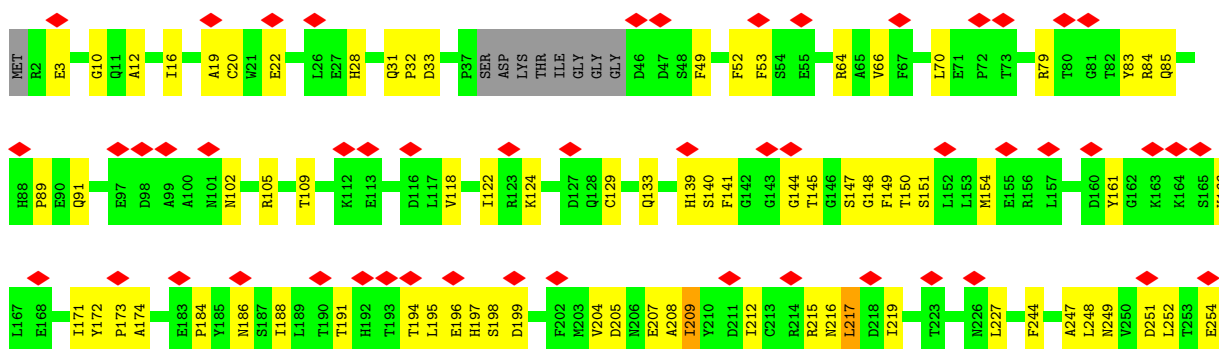


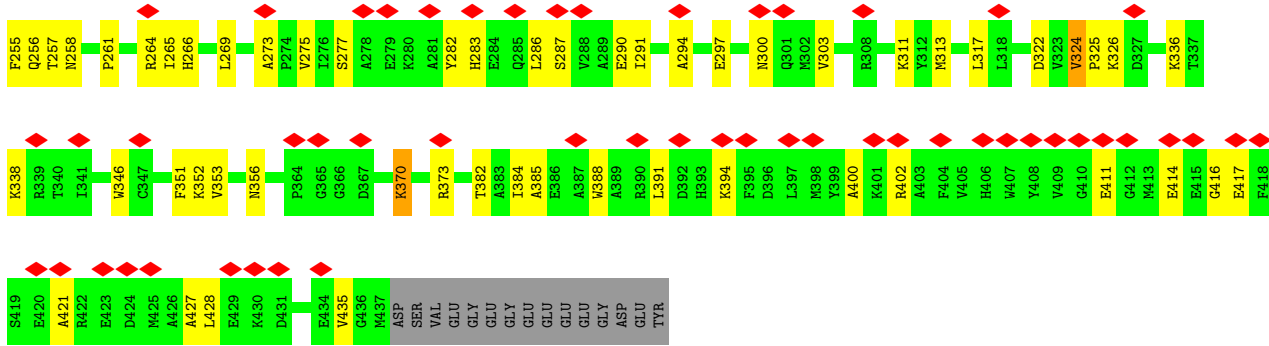


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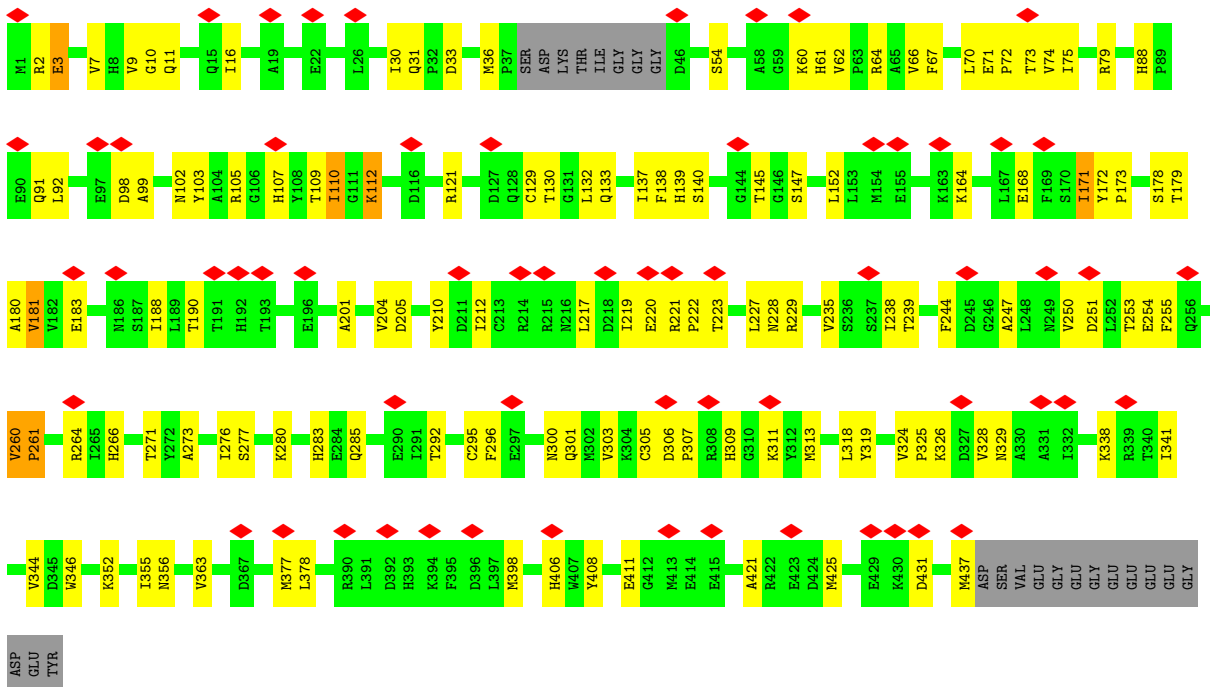


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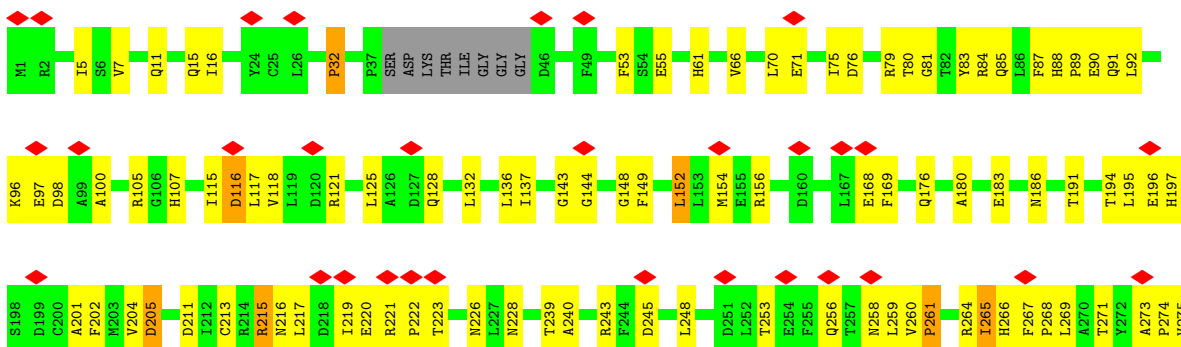


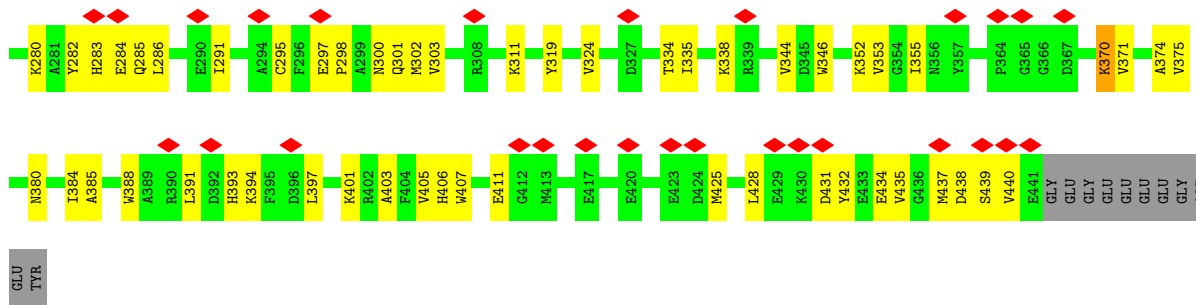


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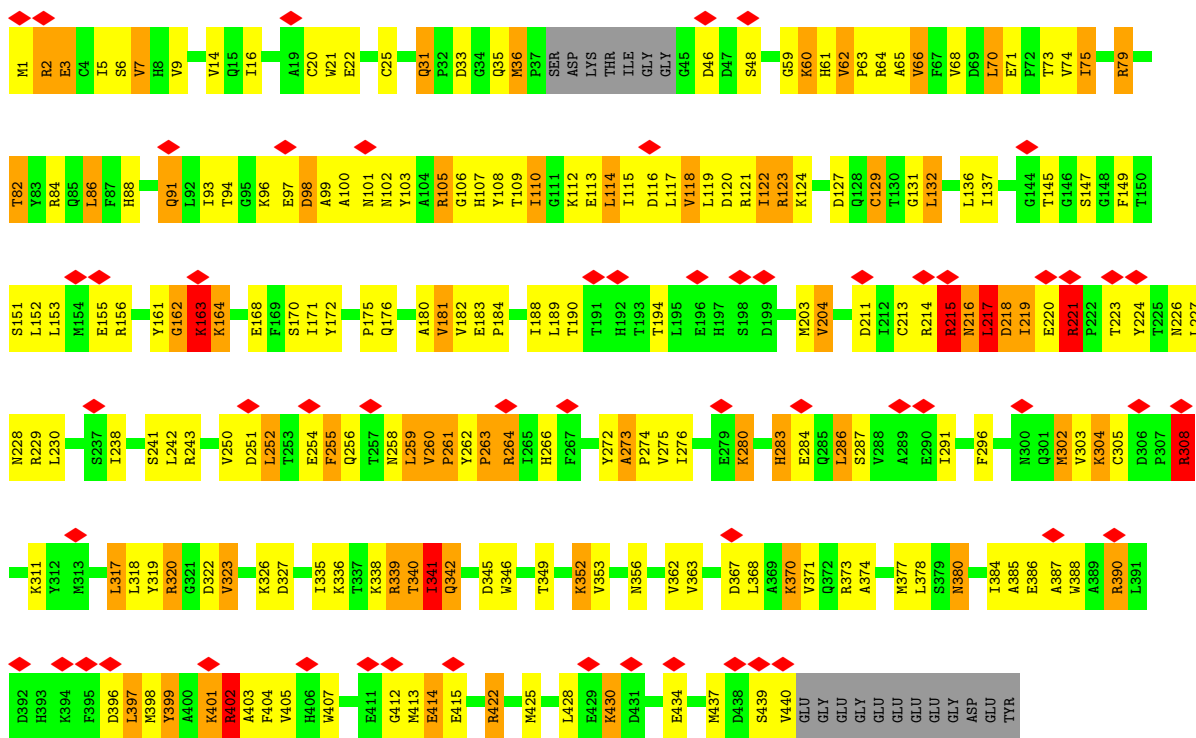


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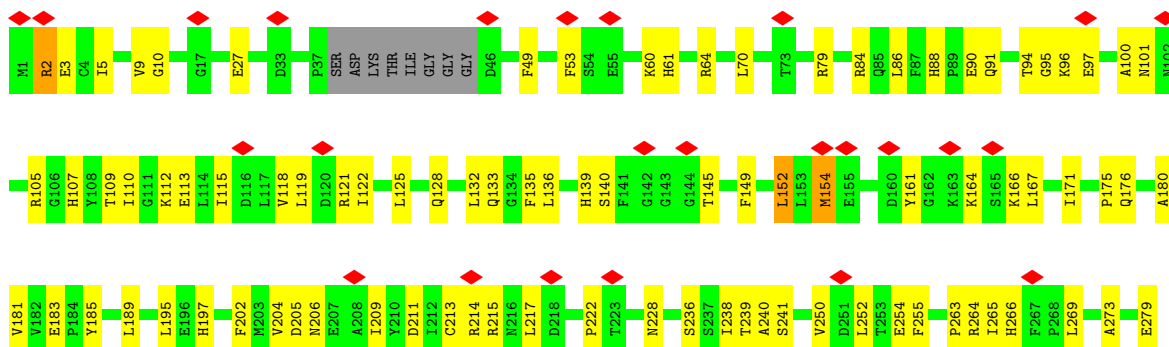


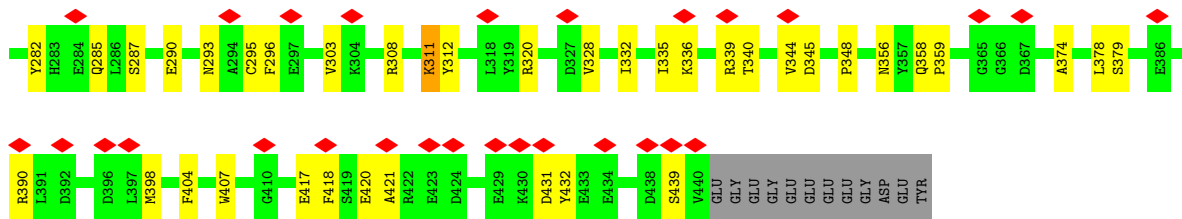


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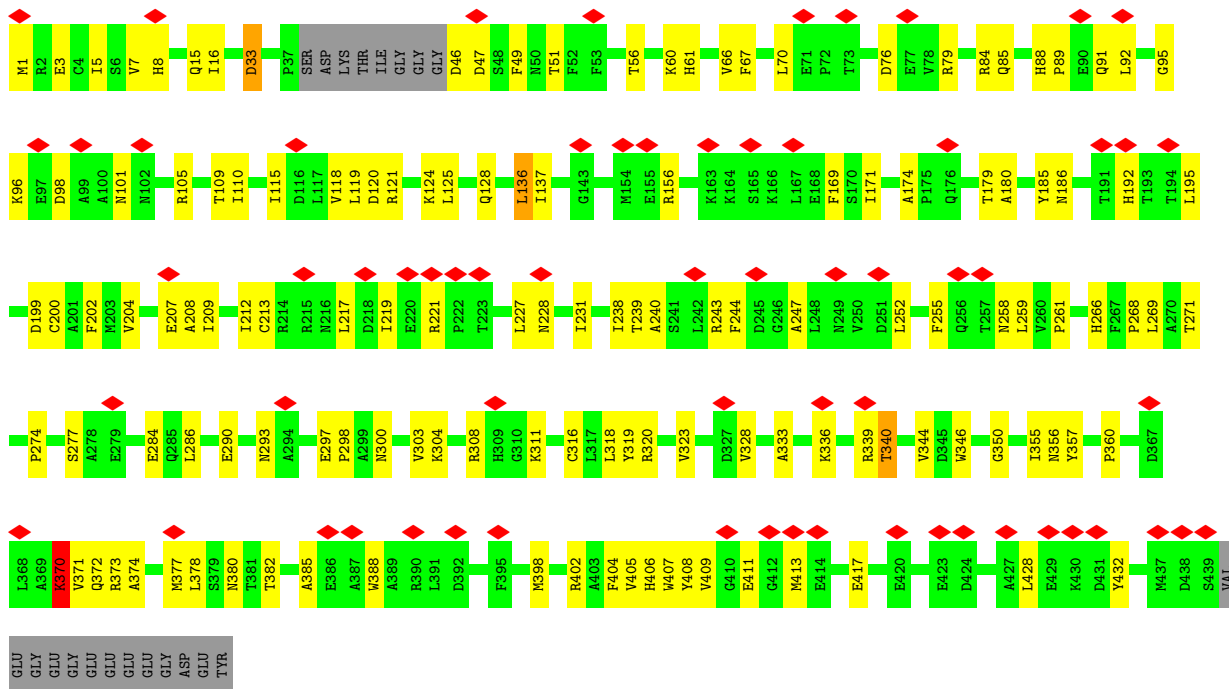


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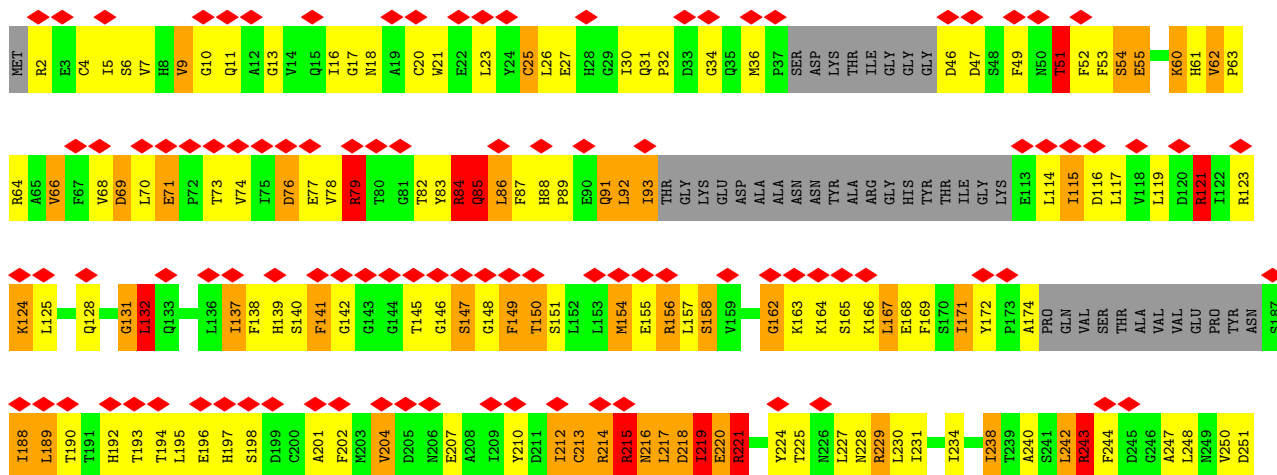


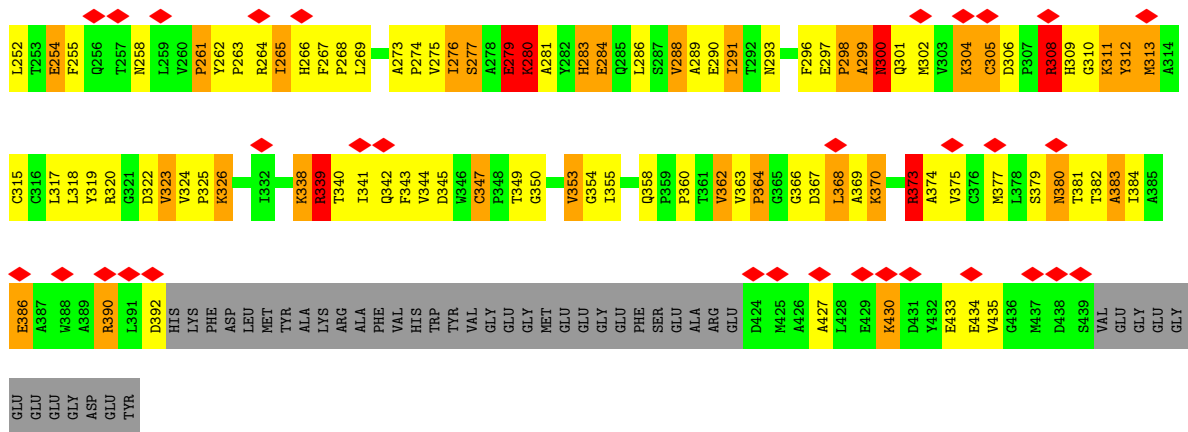


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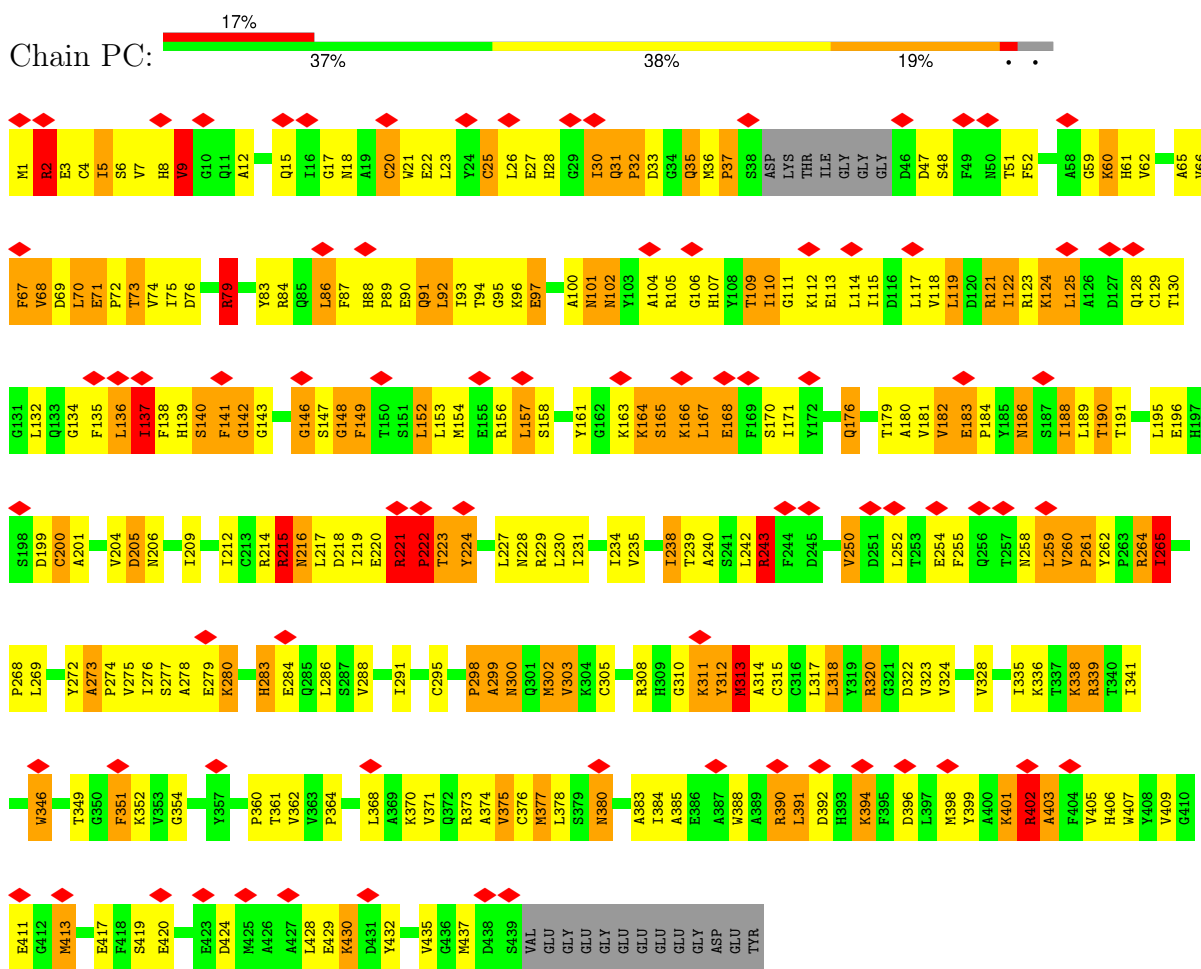


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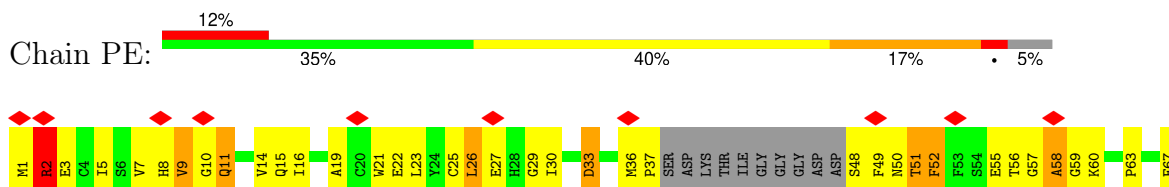


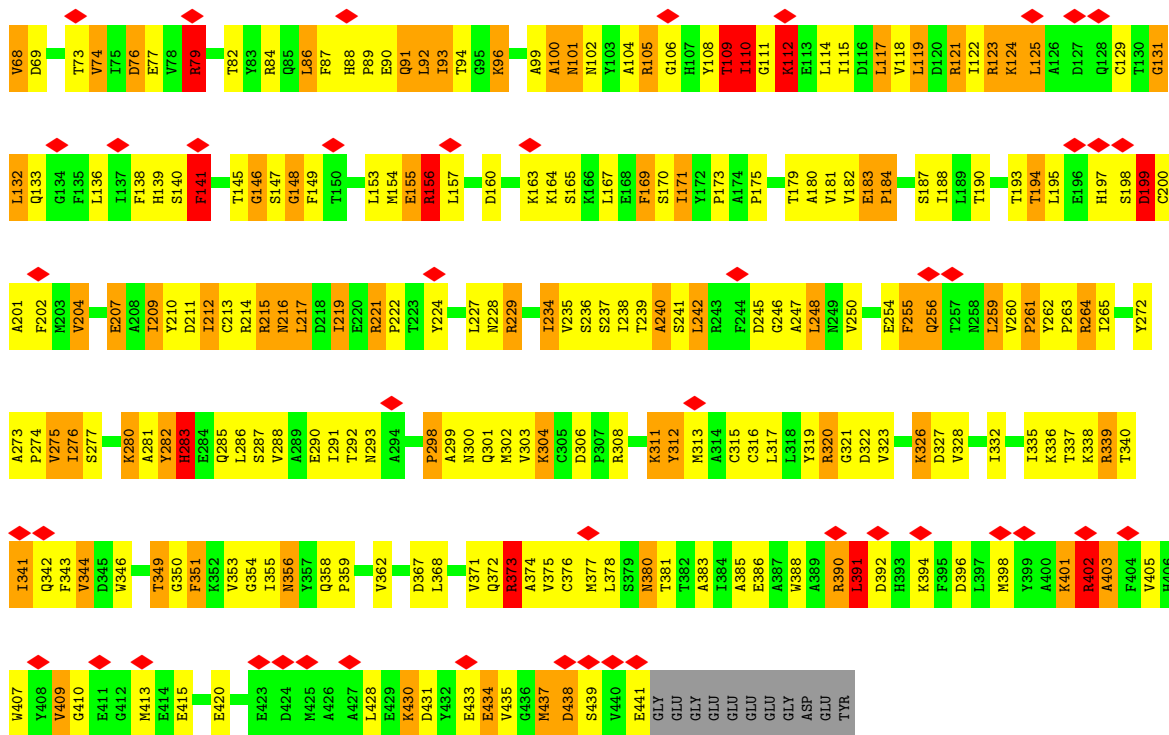


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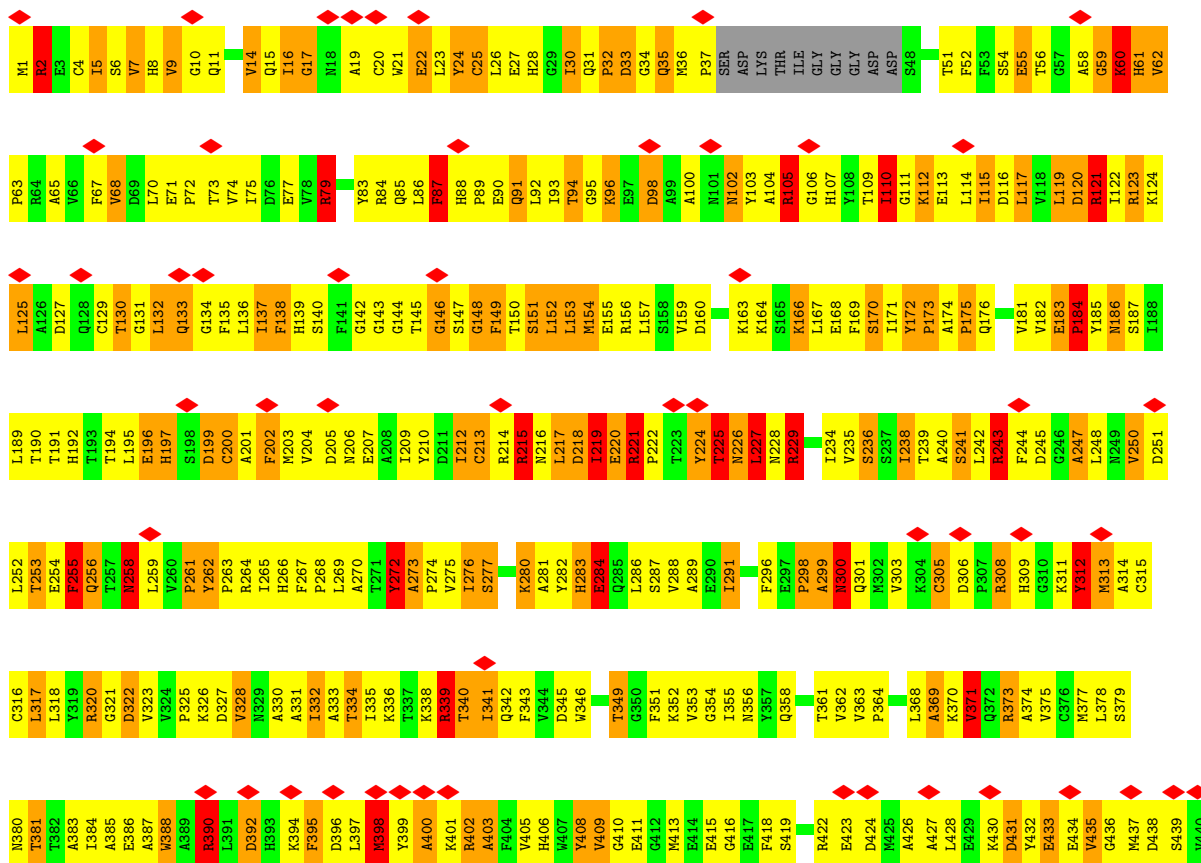
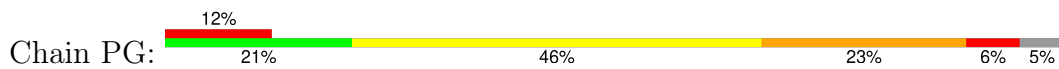


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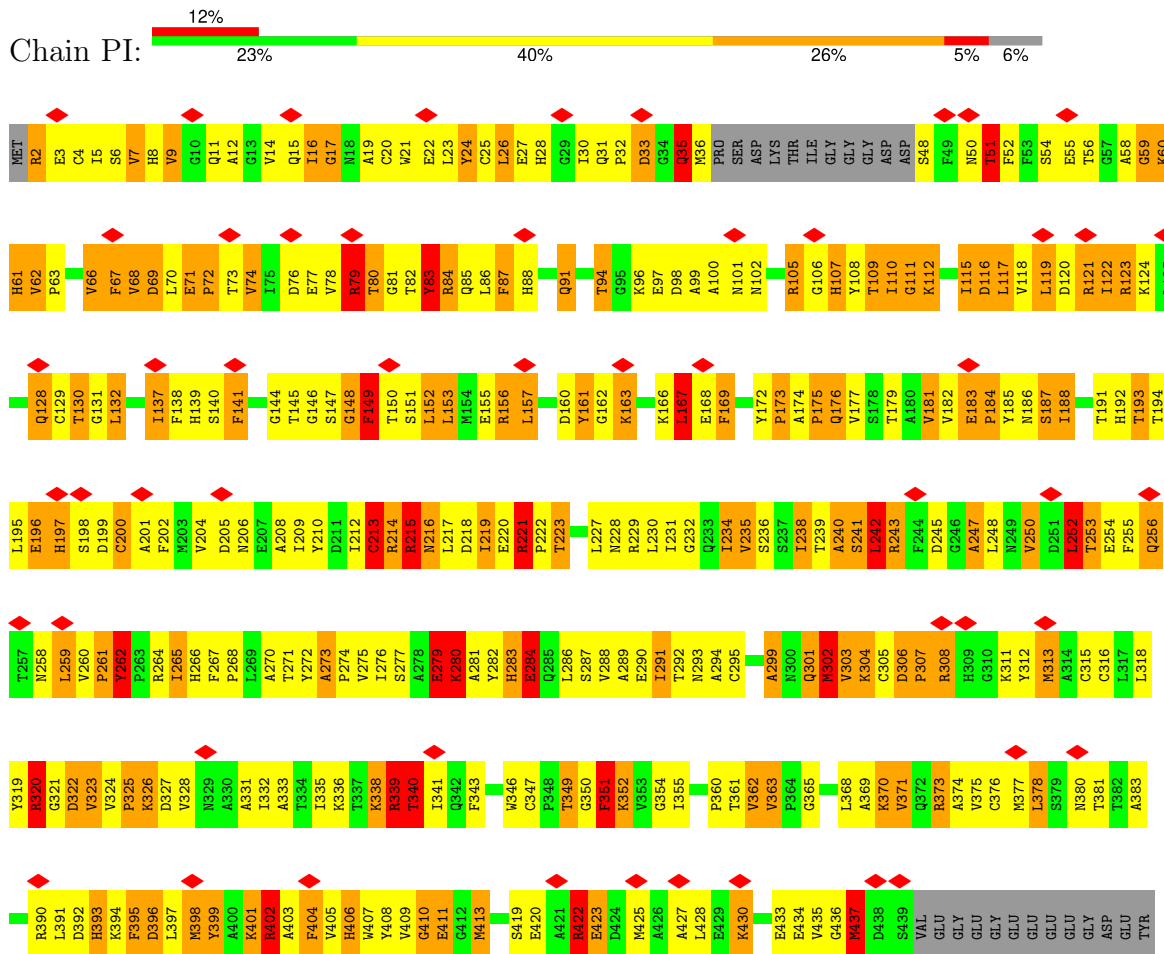


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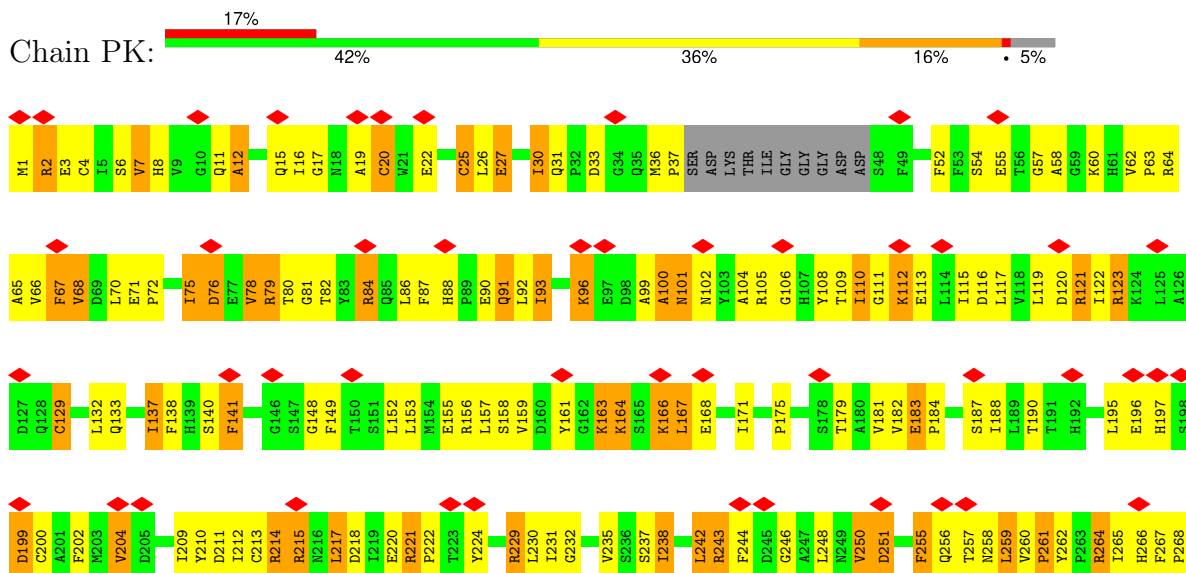


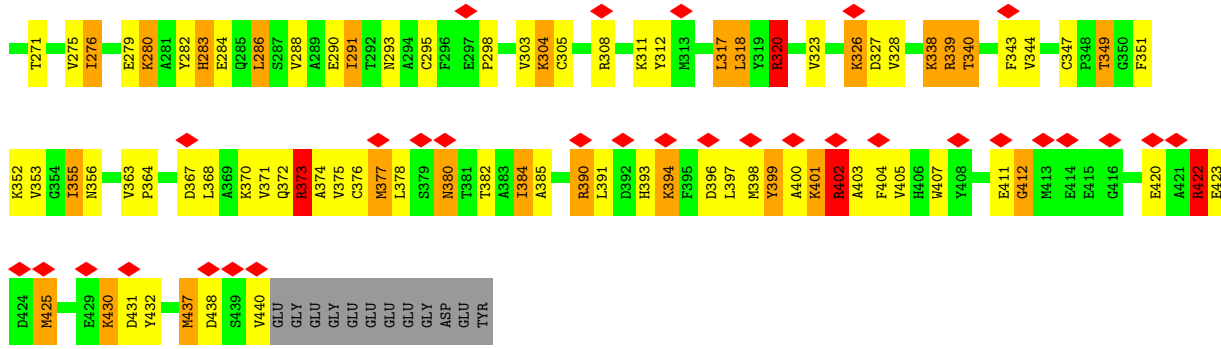
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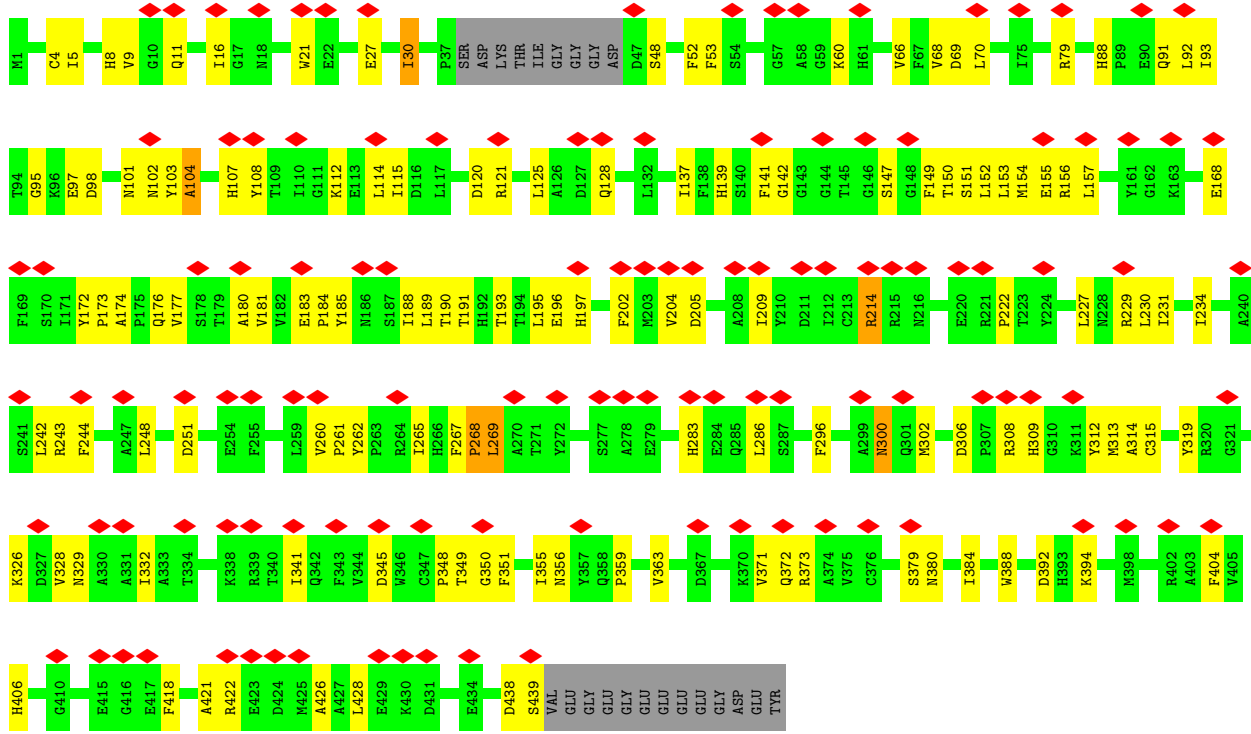


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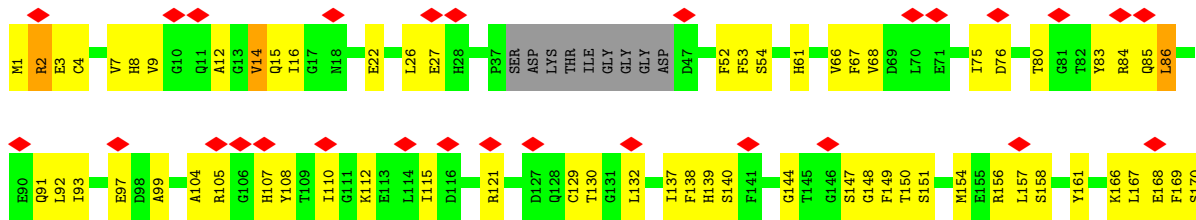


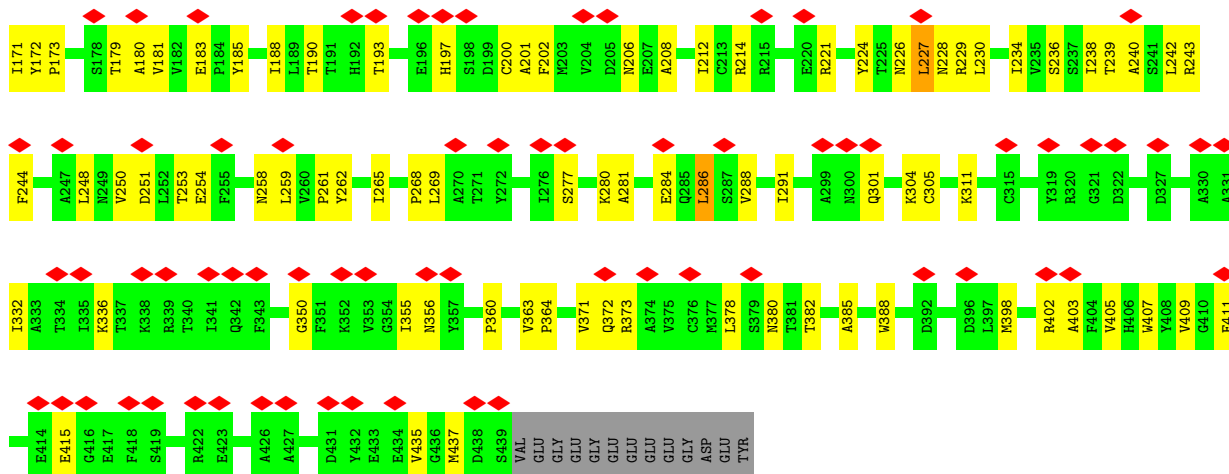


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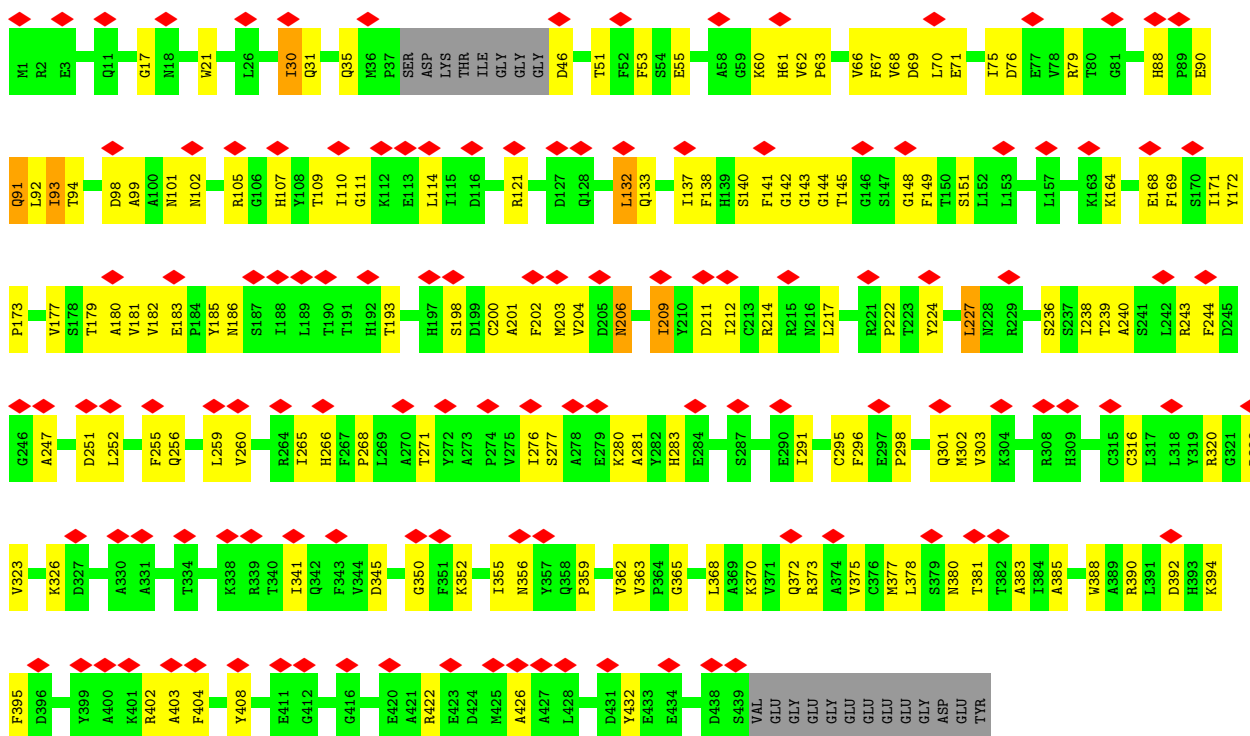


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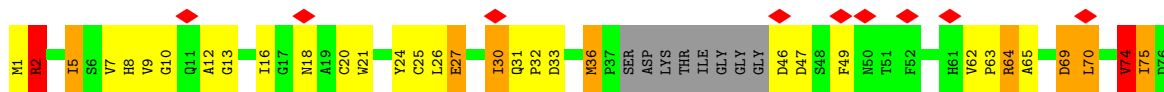


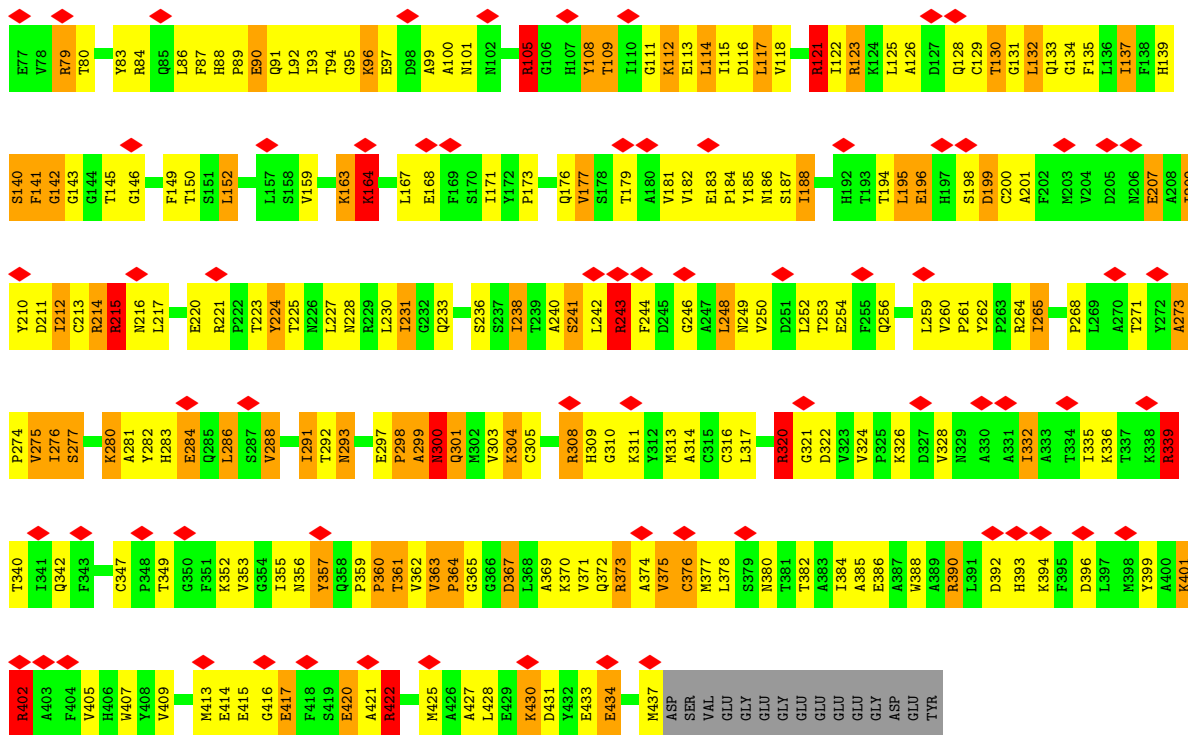


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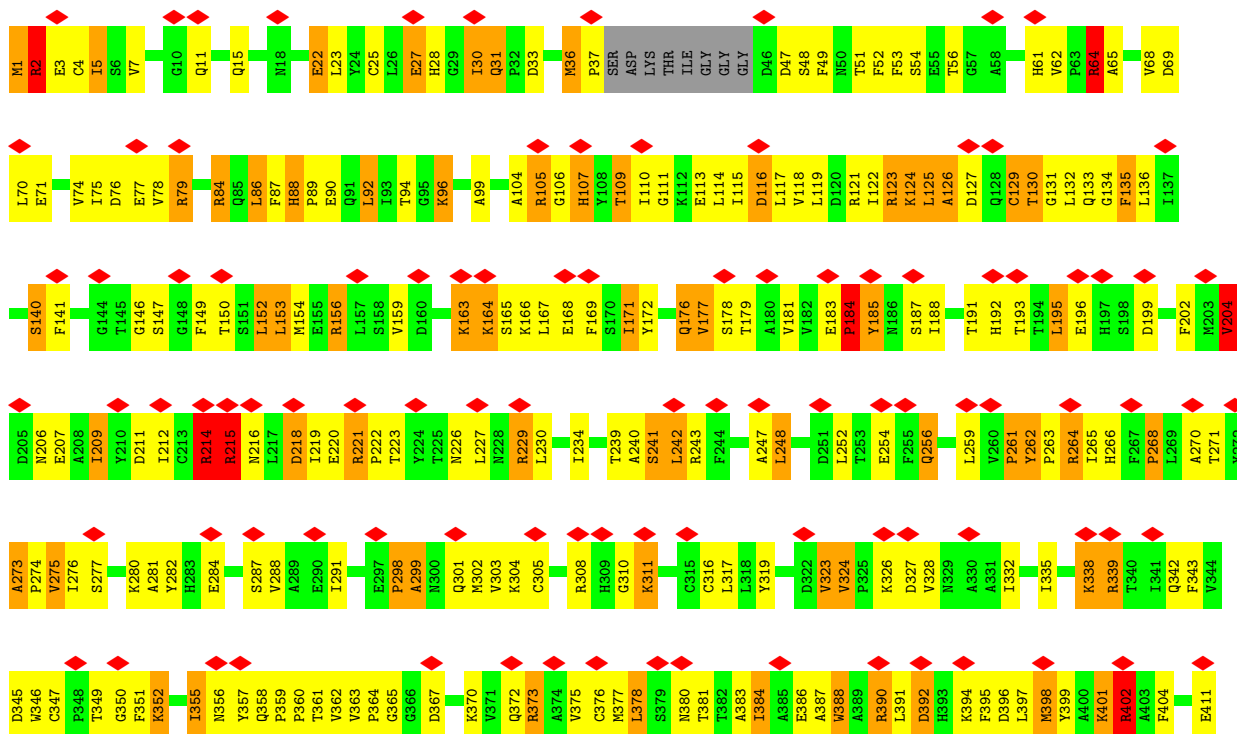


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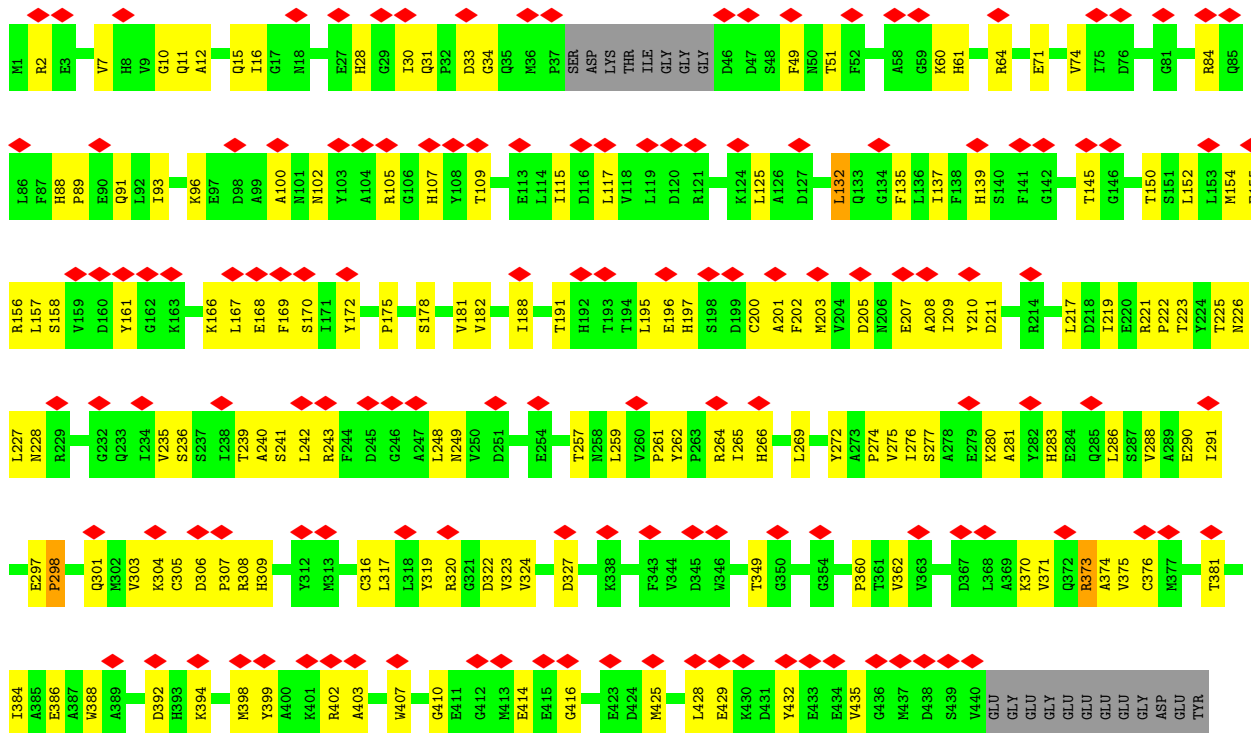


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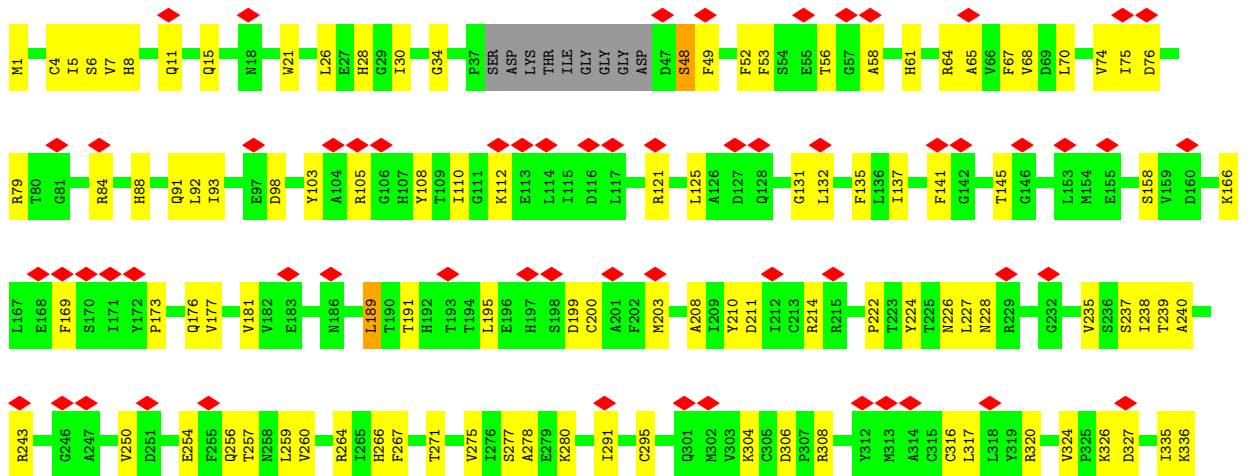


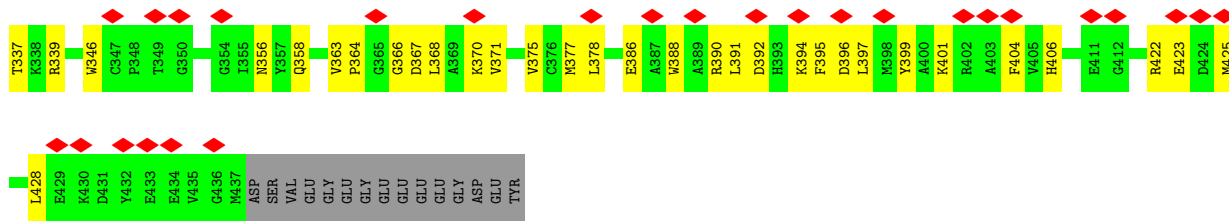


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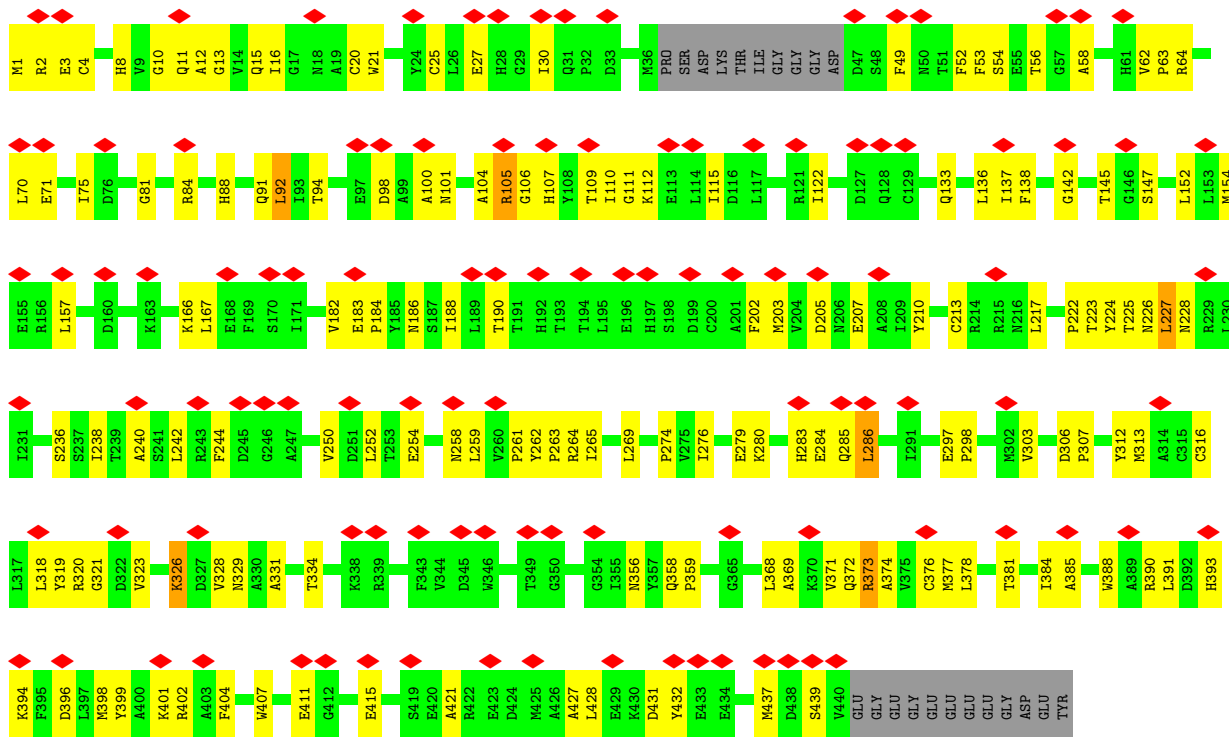


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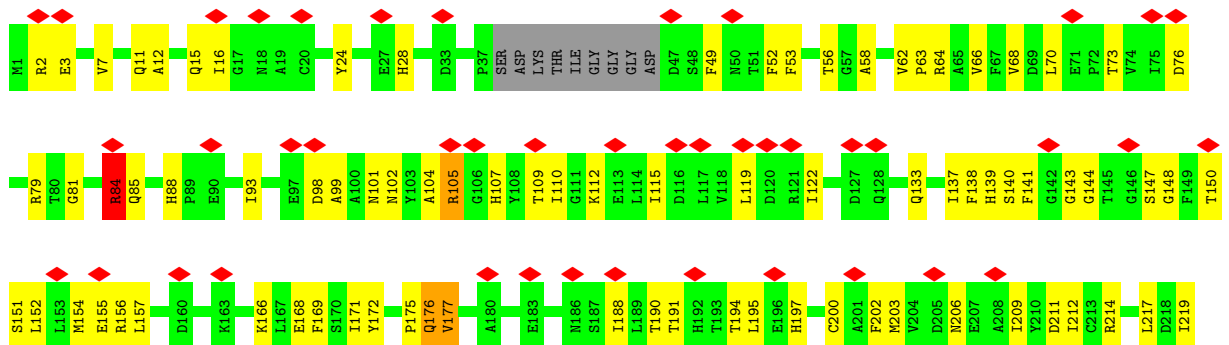


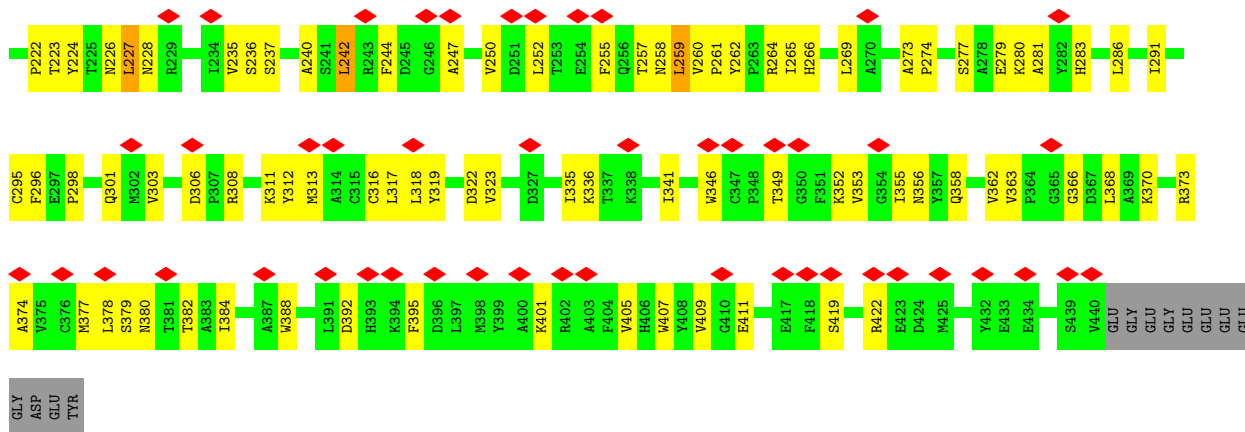


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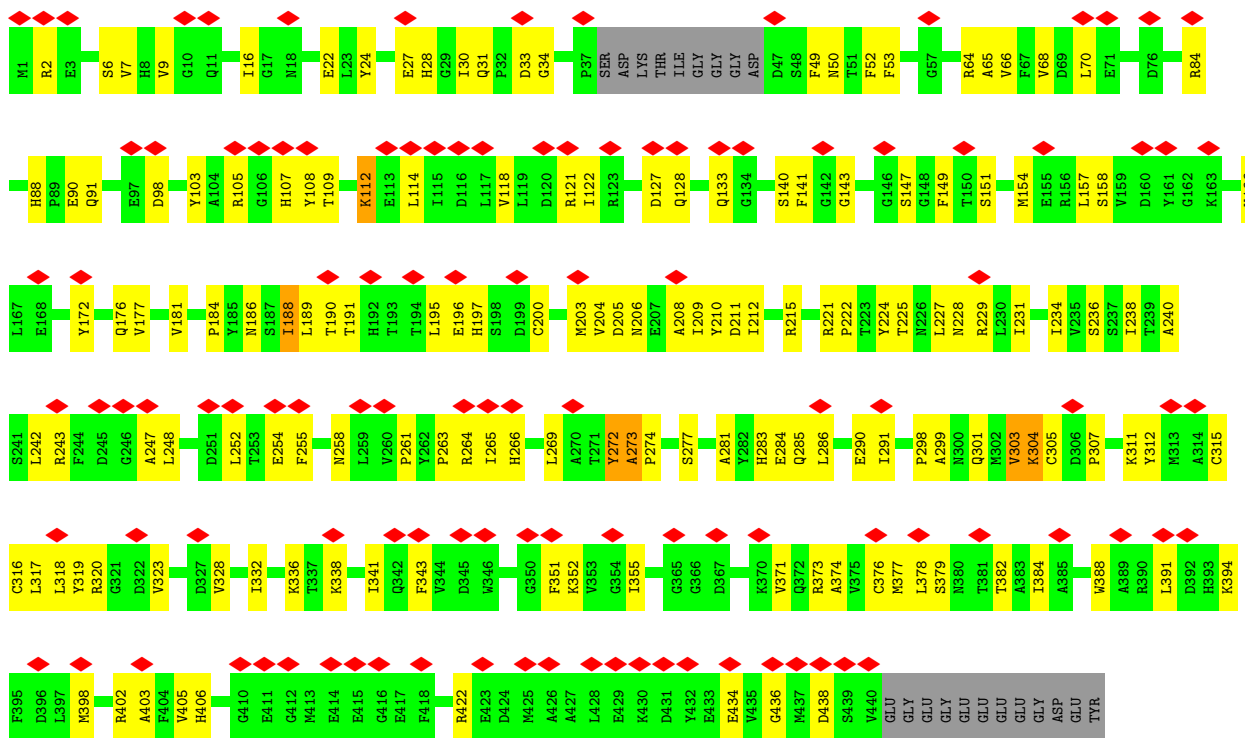


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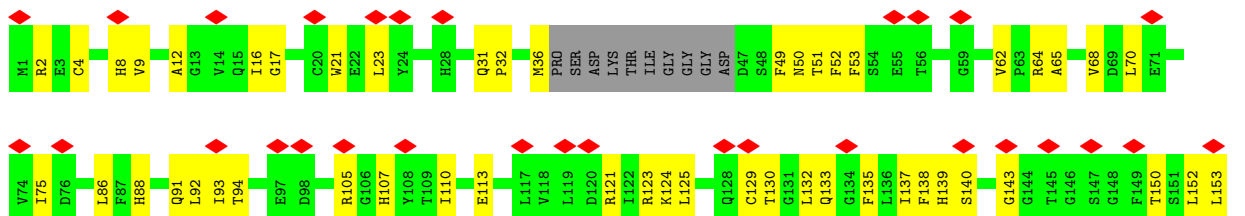


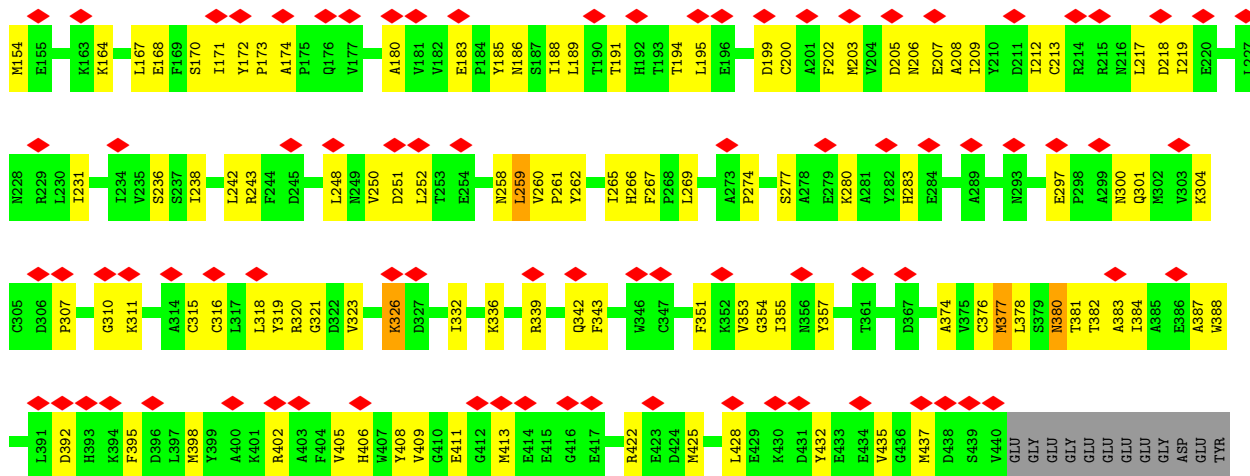


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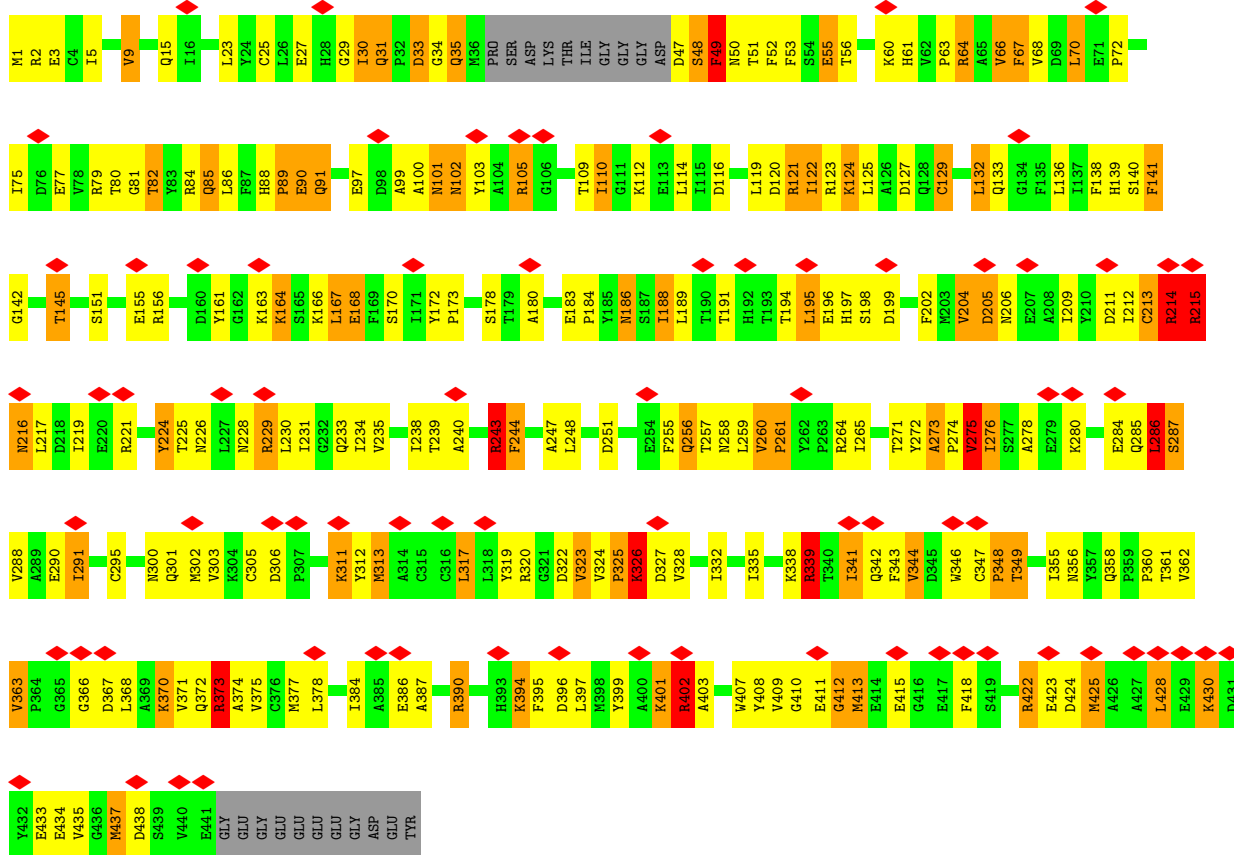


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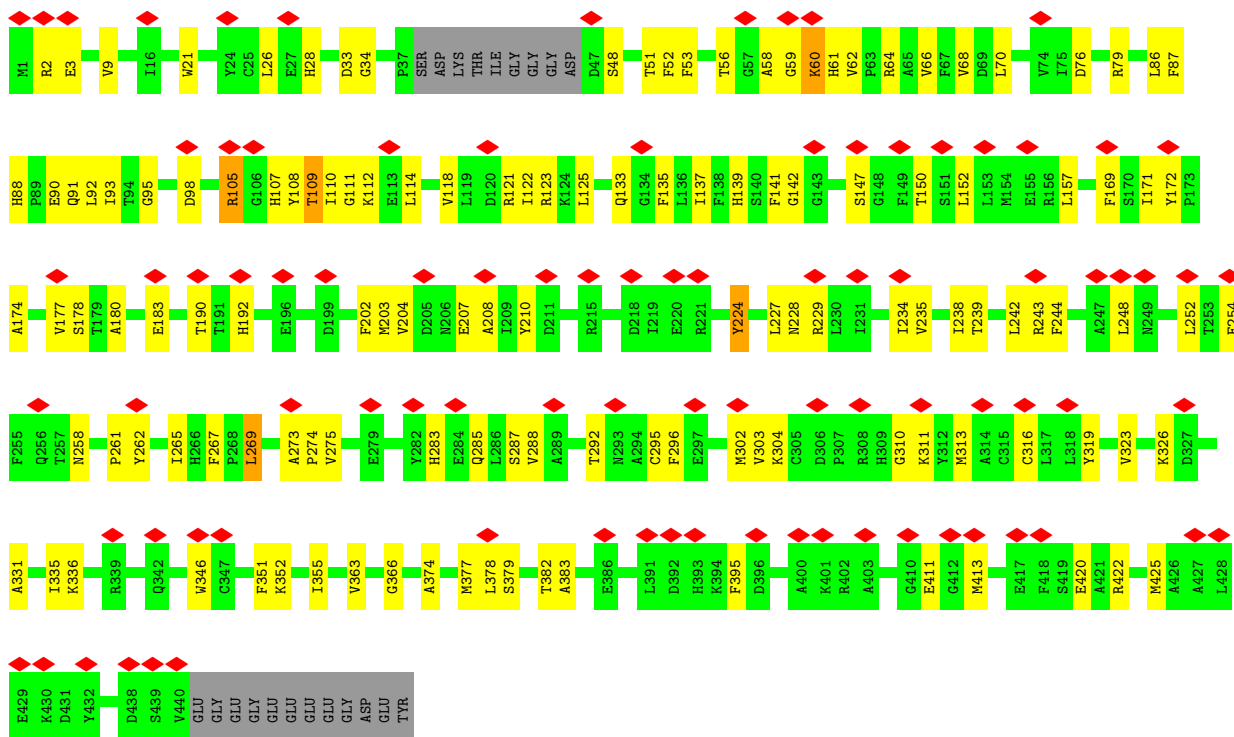


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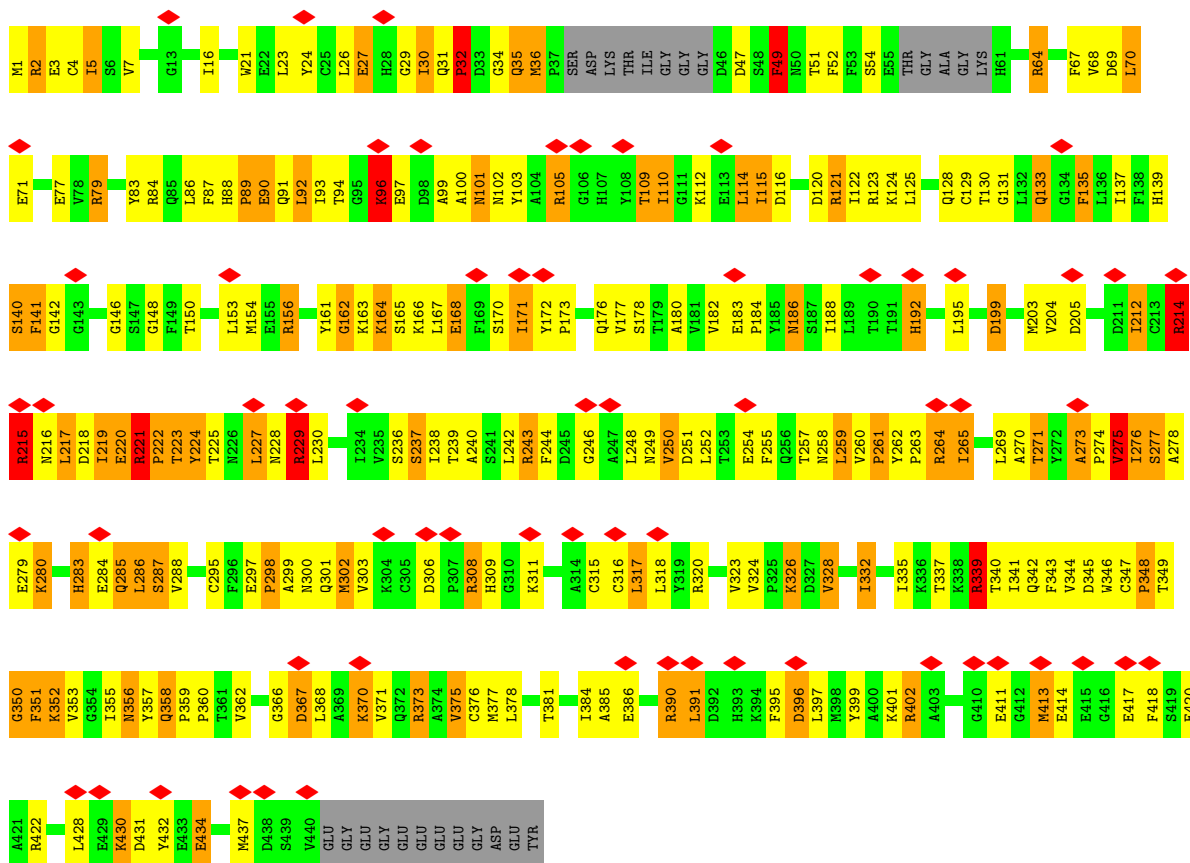


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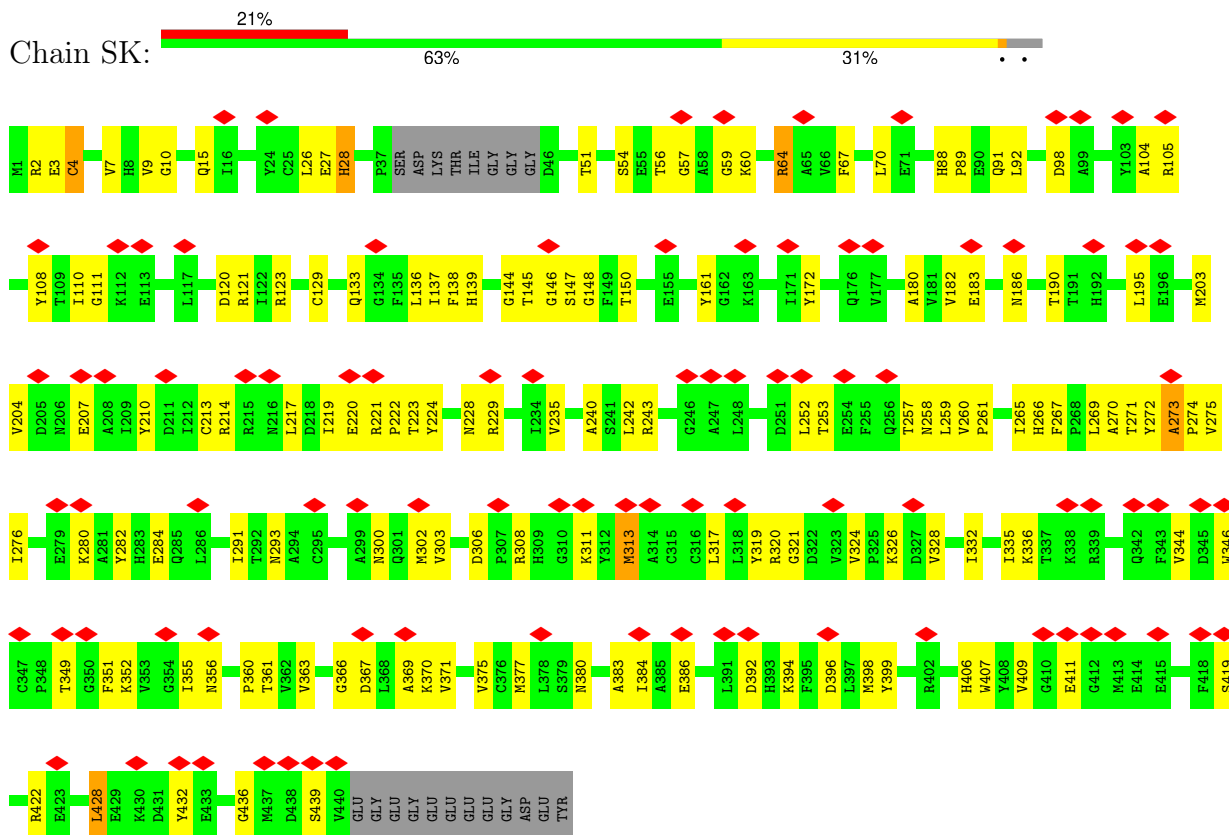




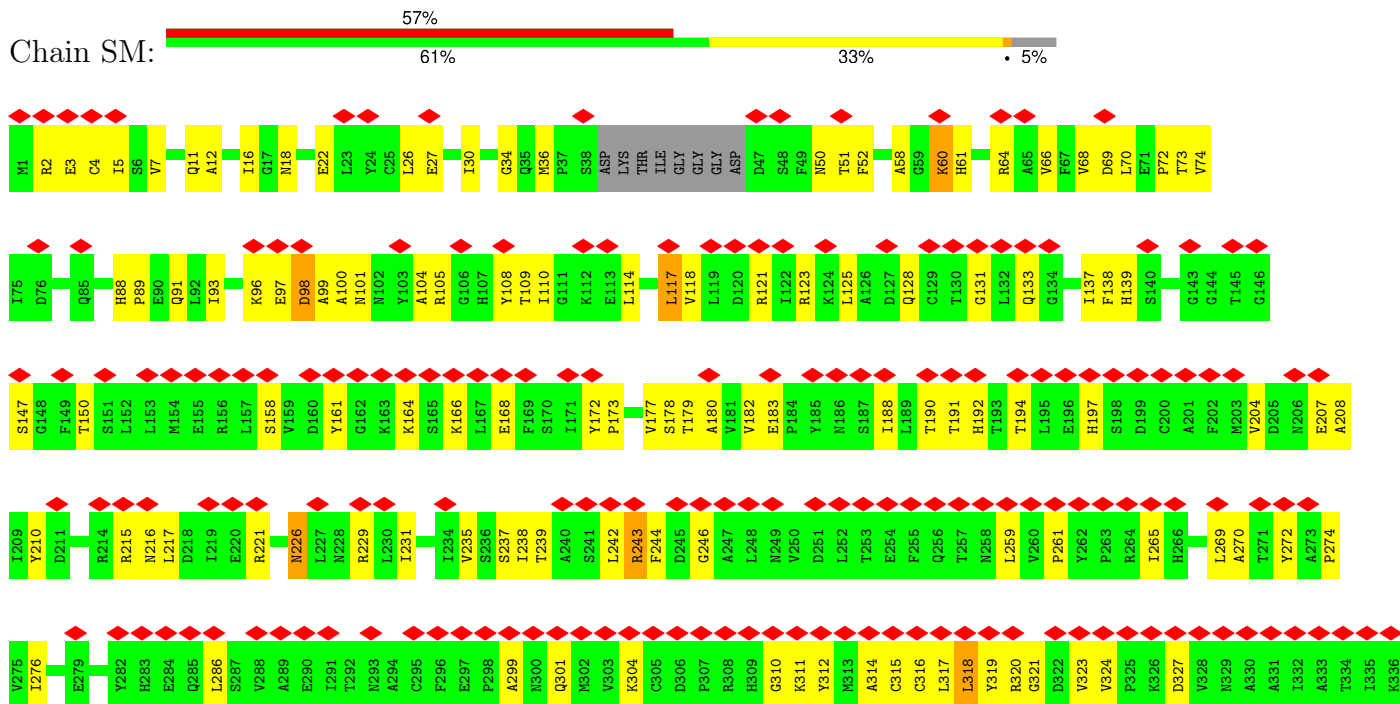
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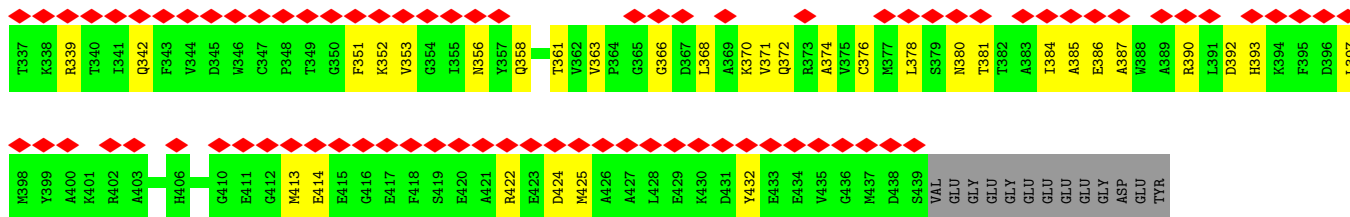


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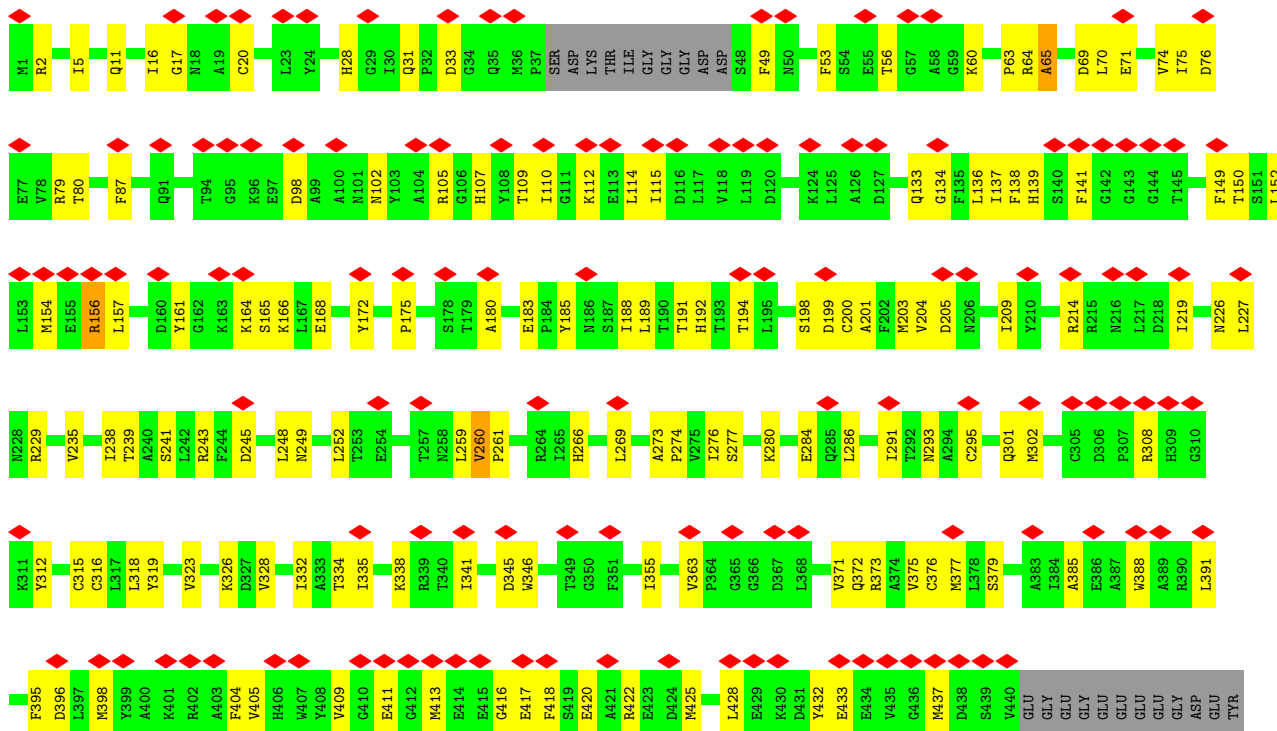


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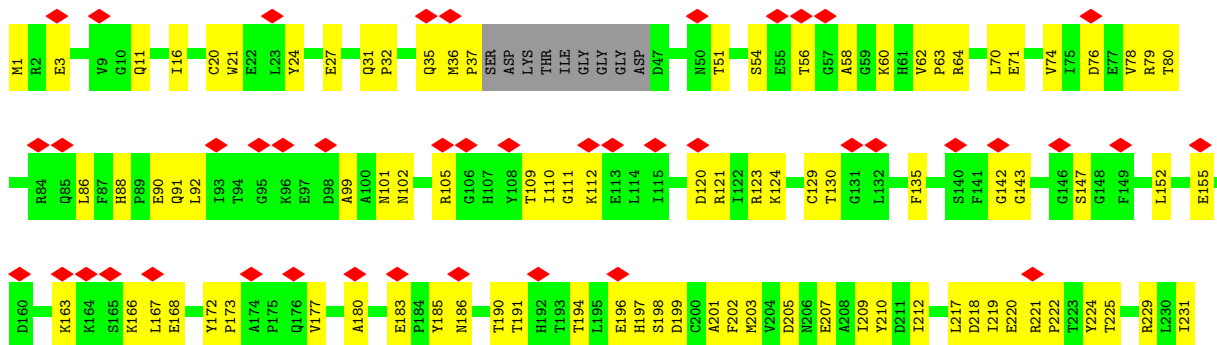


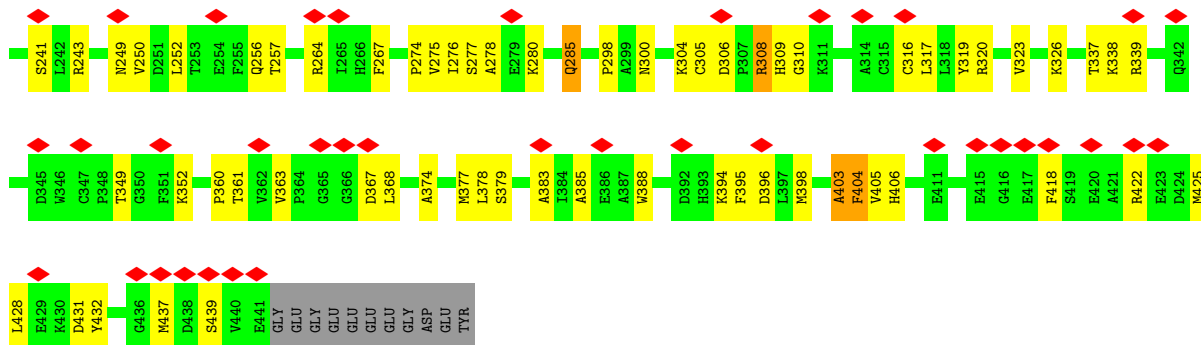


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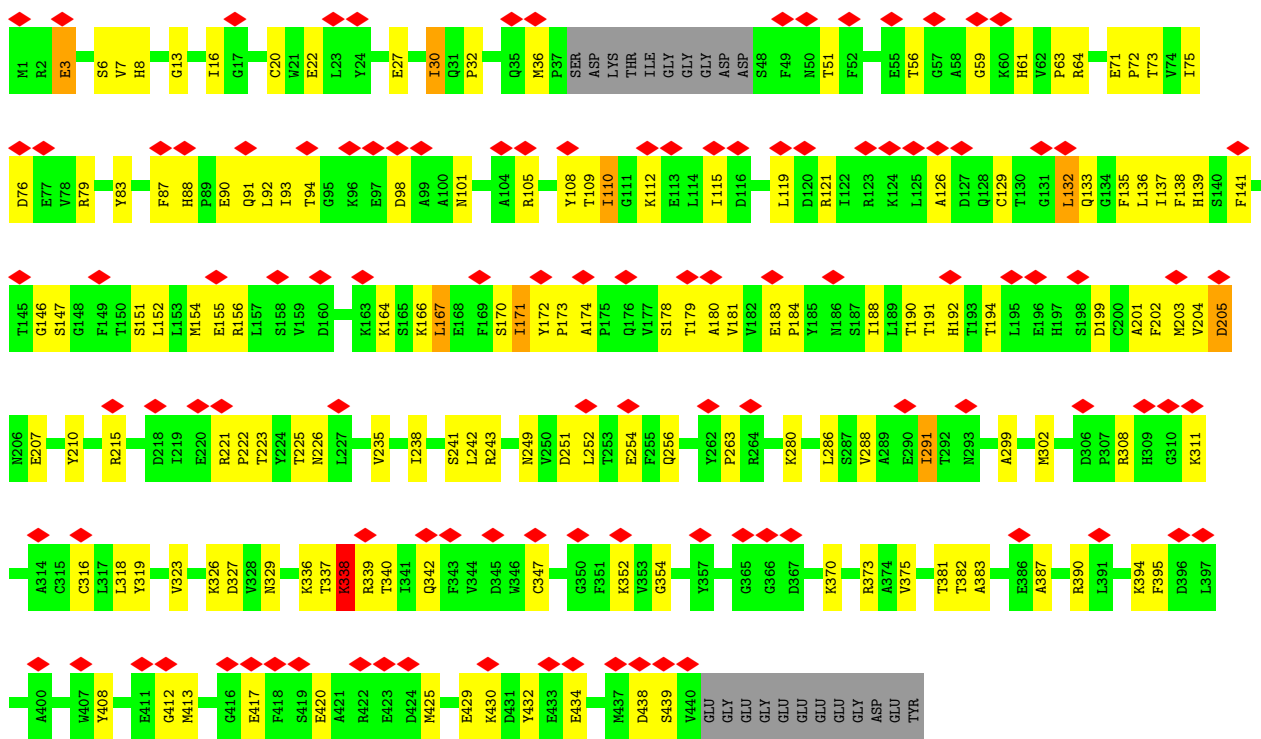


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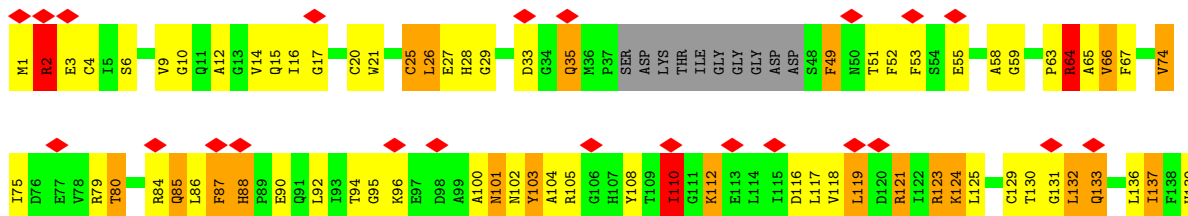


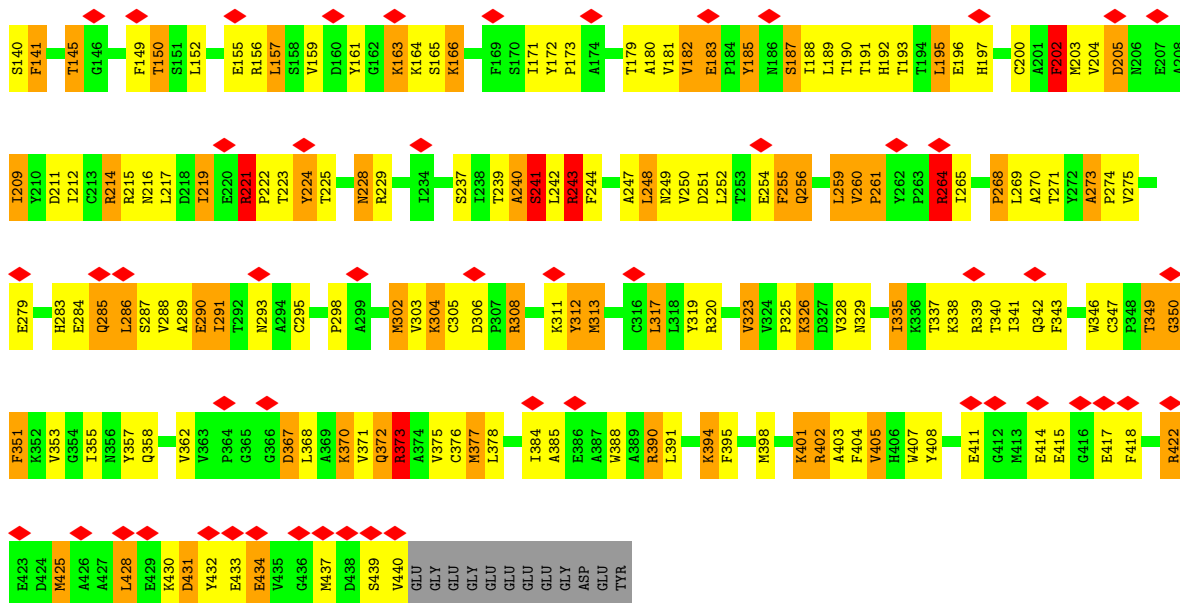


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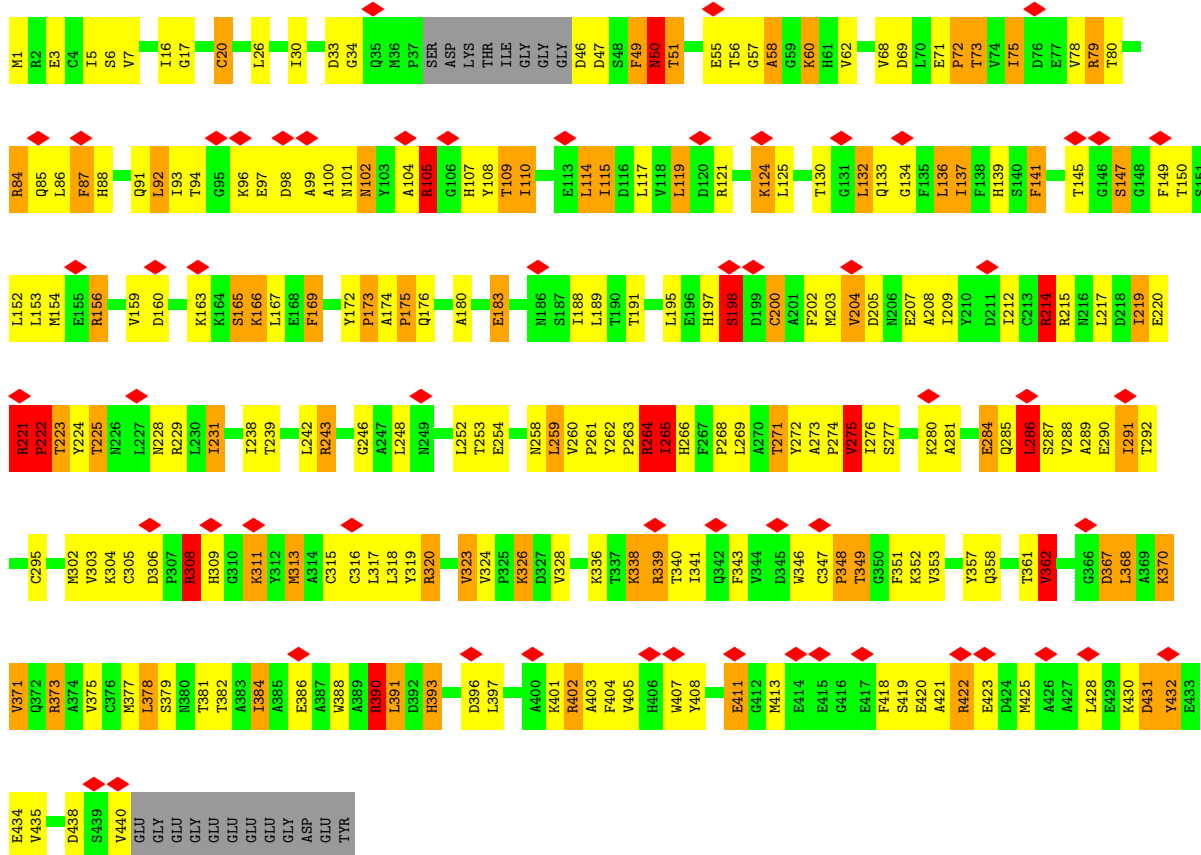
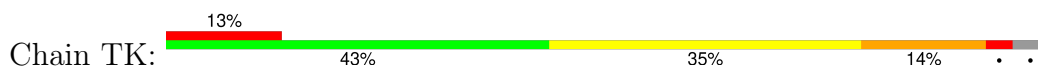


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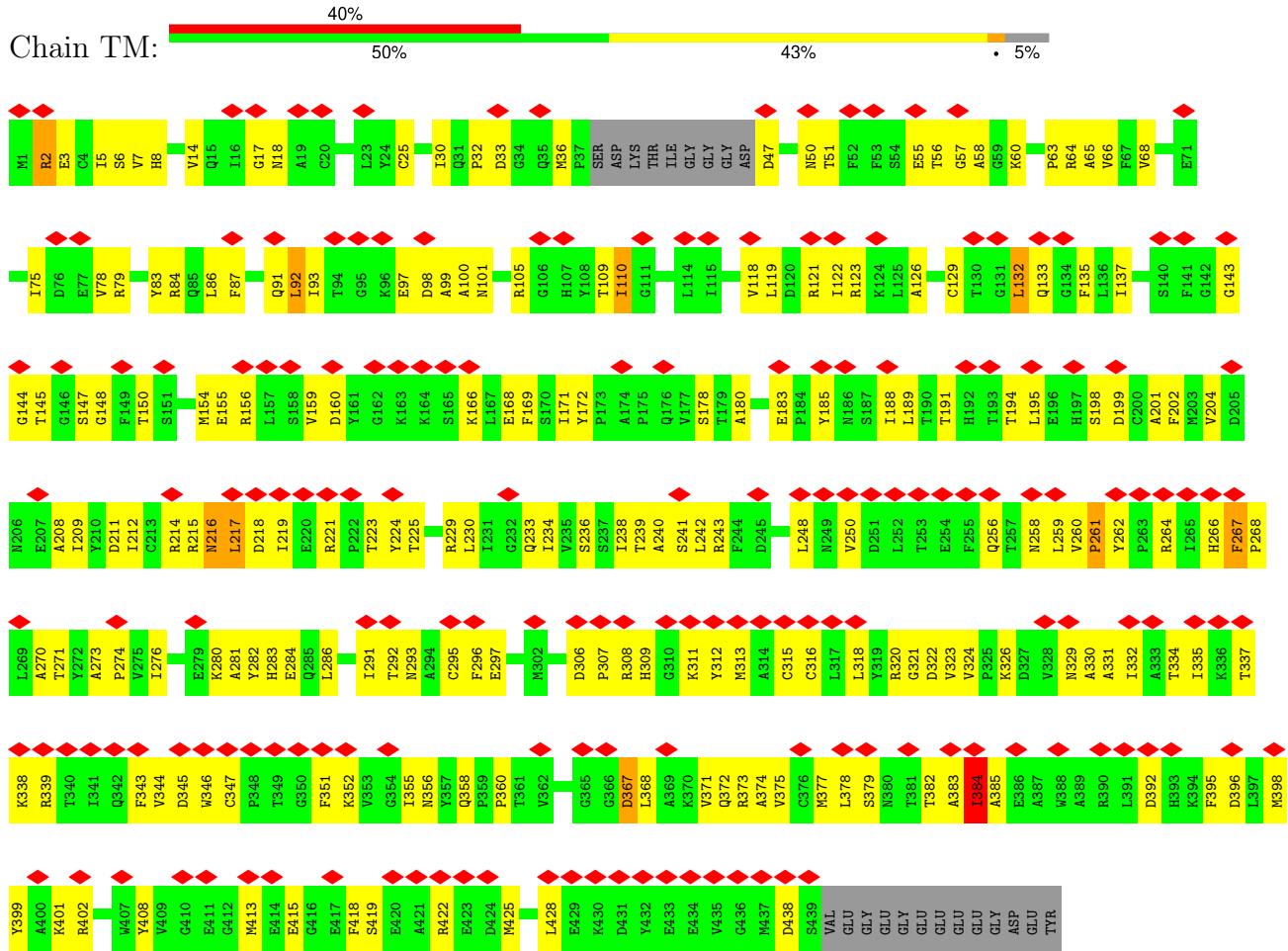




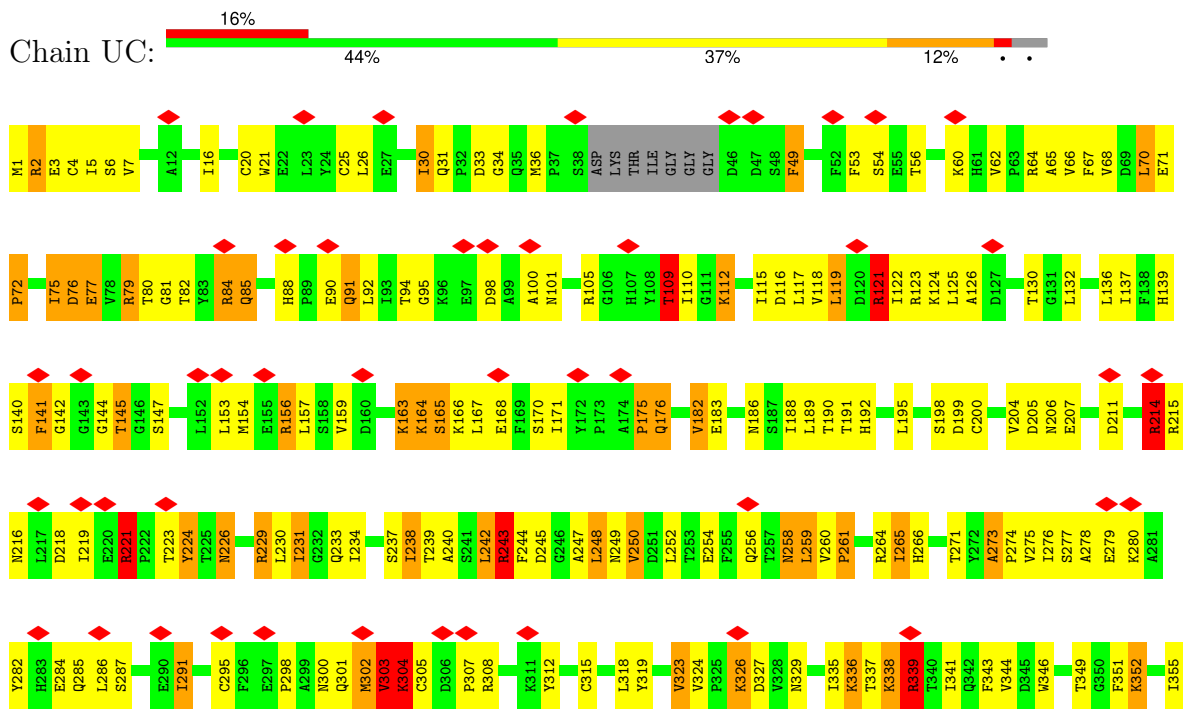
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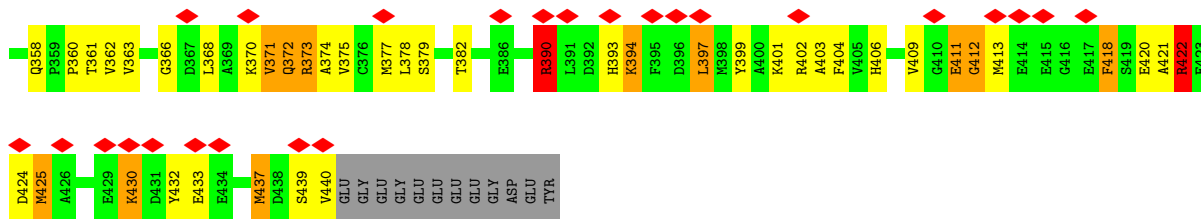


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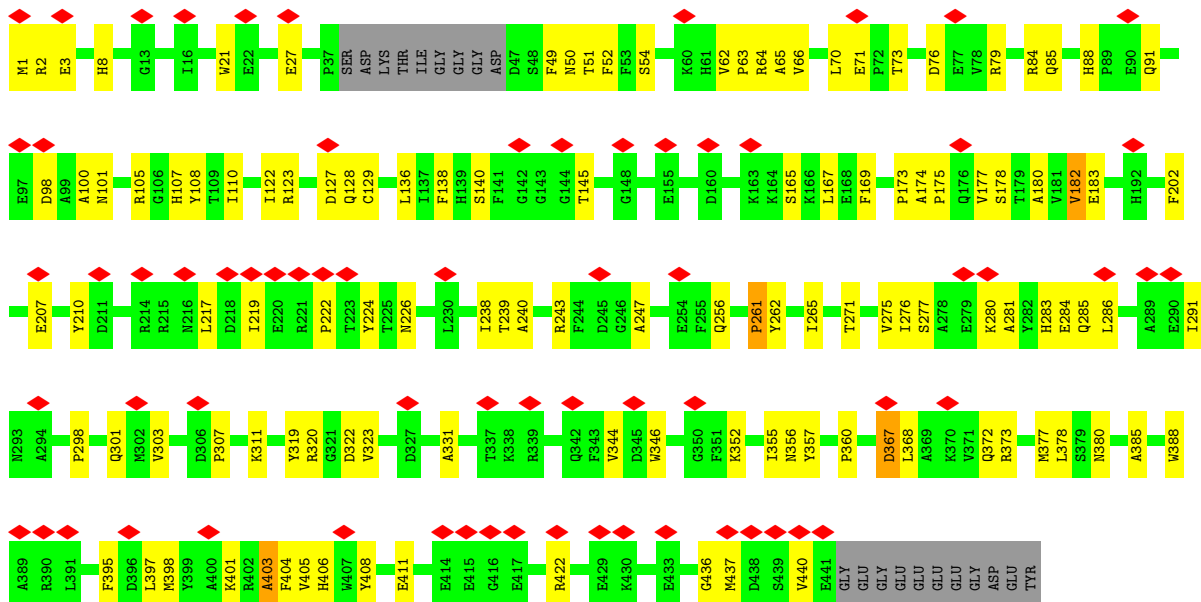


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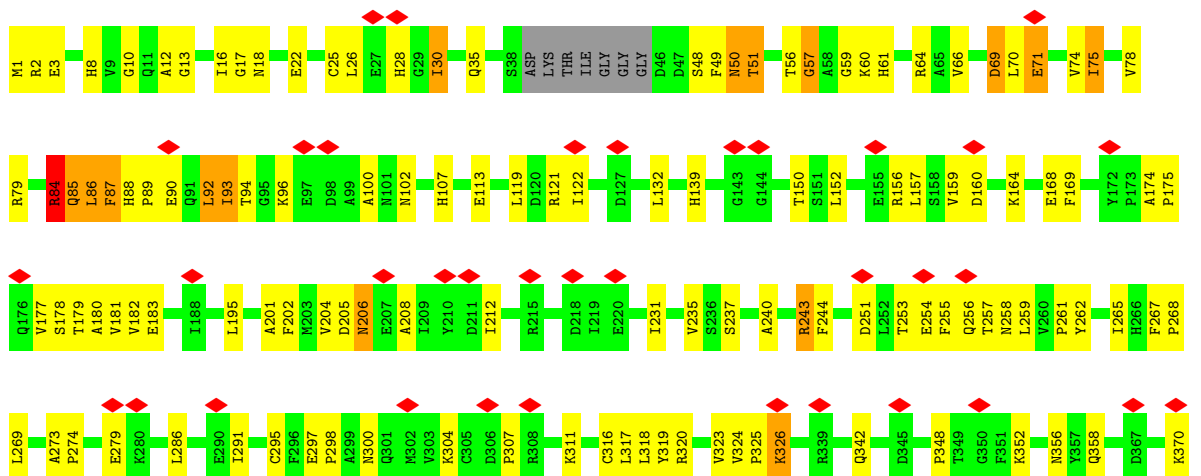


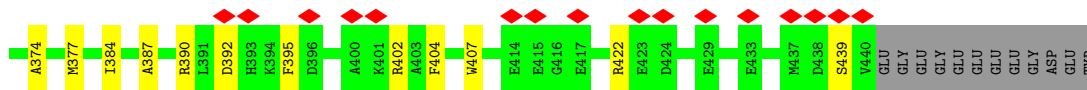


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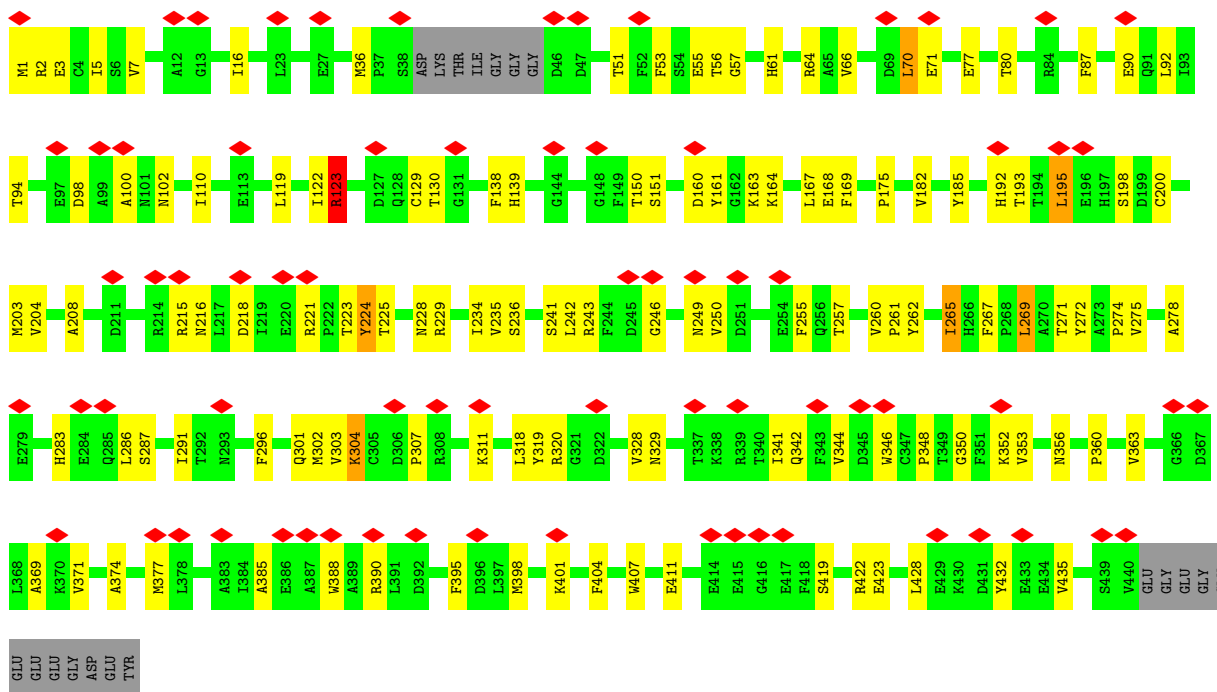


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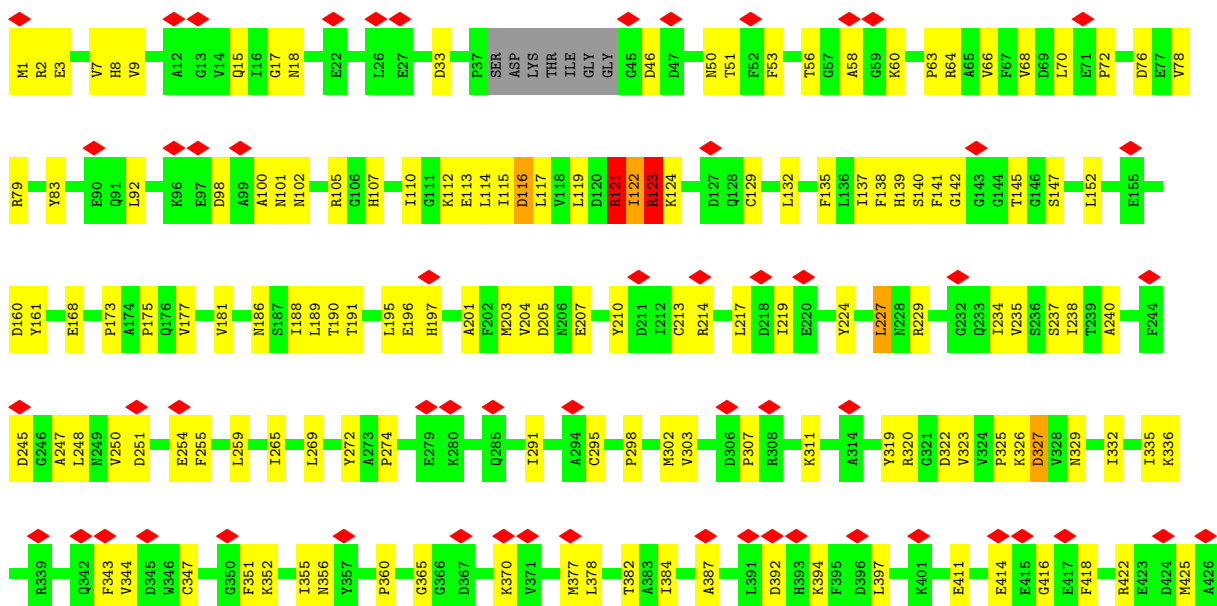


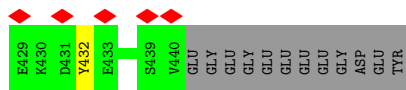


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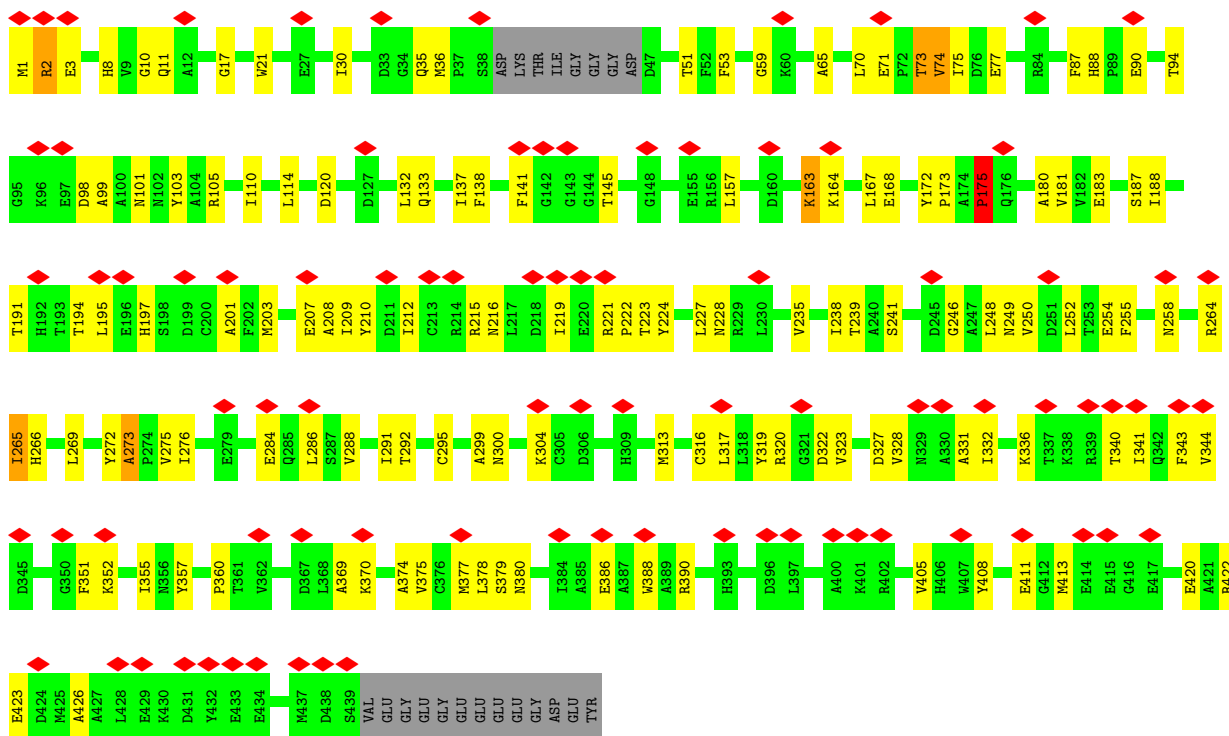


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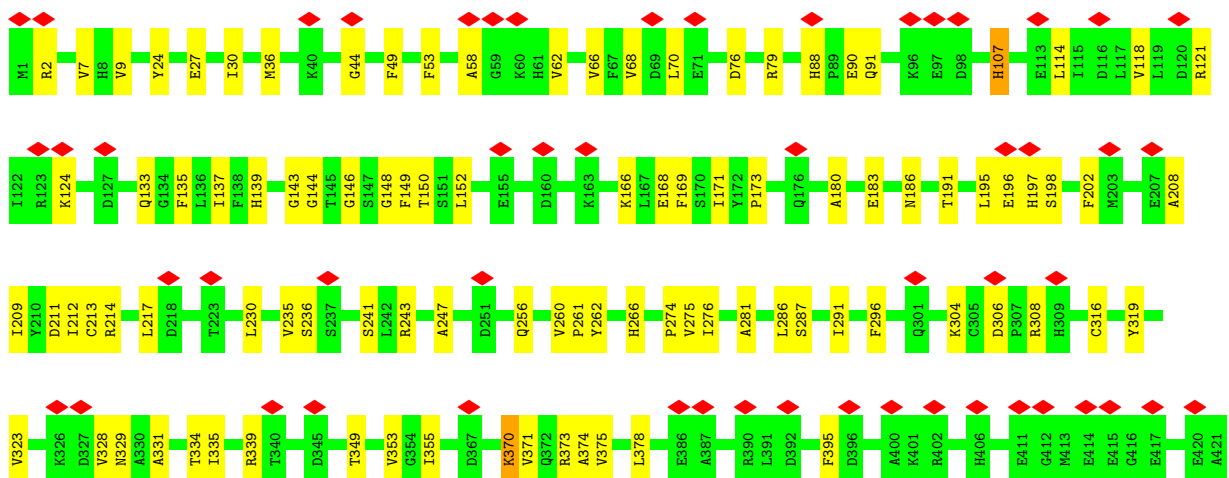
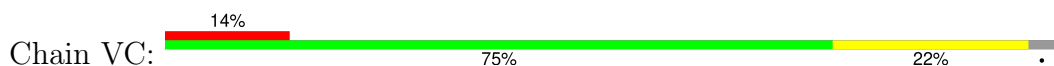


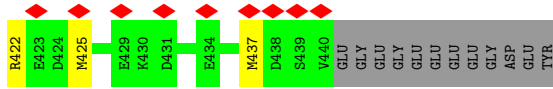


• Molecule 42: Tubulin alpha-1D chain

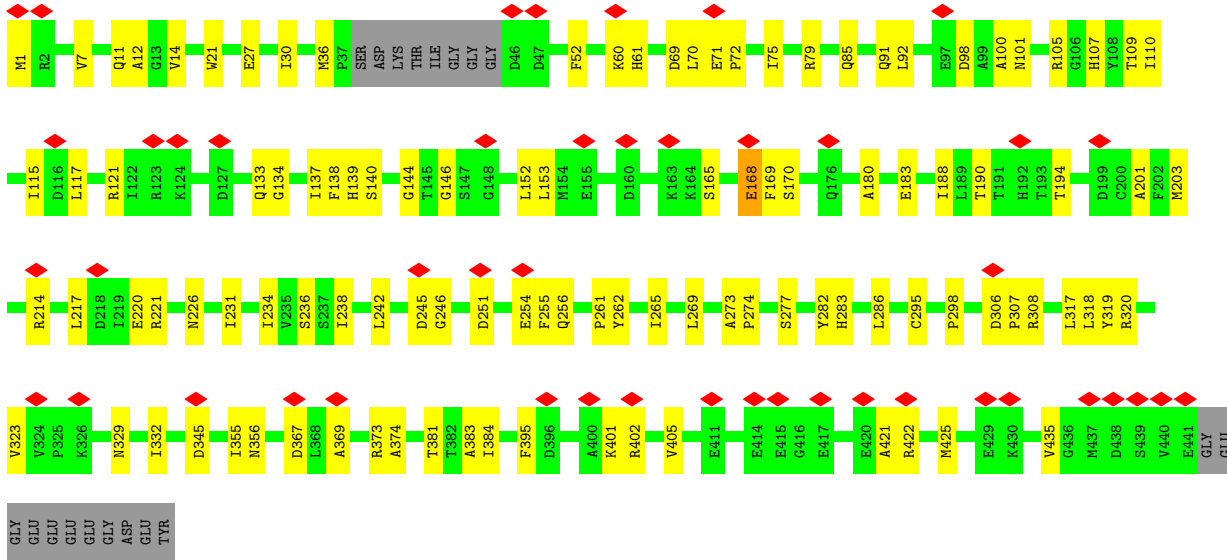
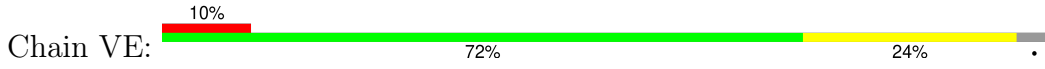


• Molecule 42: Tubulin alpha-1D chain

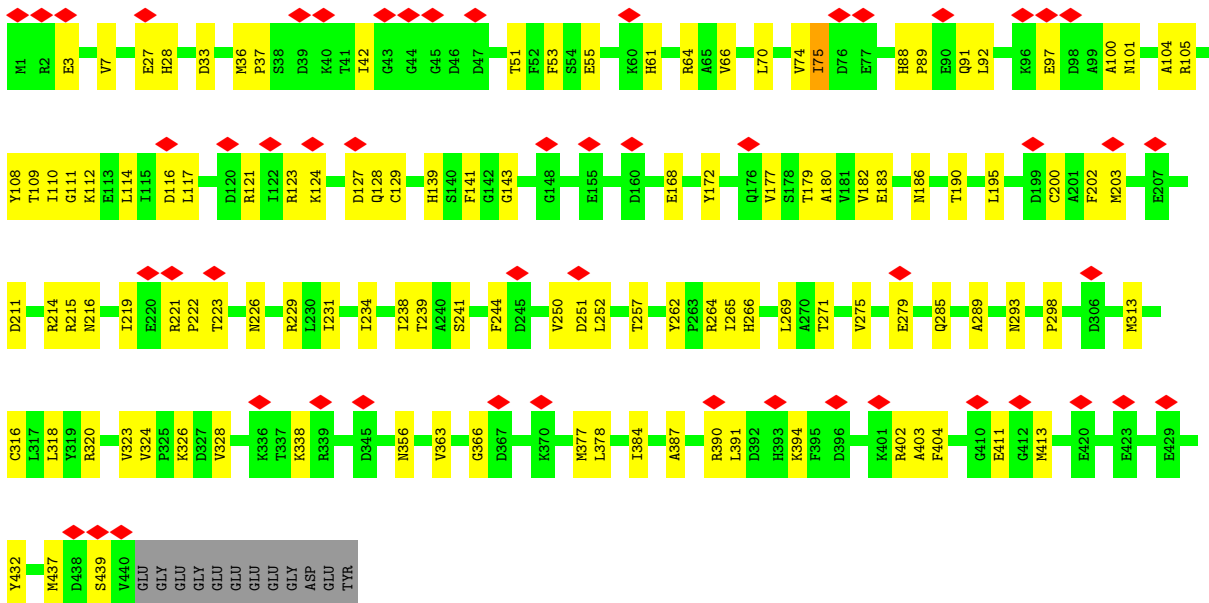
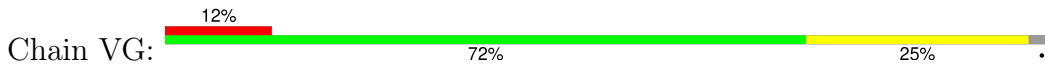




• Molecule 42: Tubulin alpha-1D chain

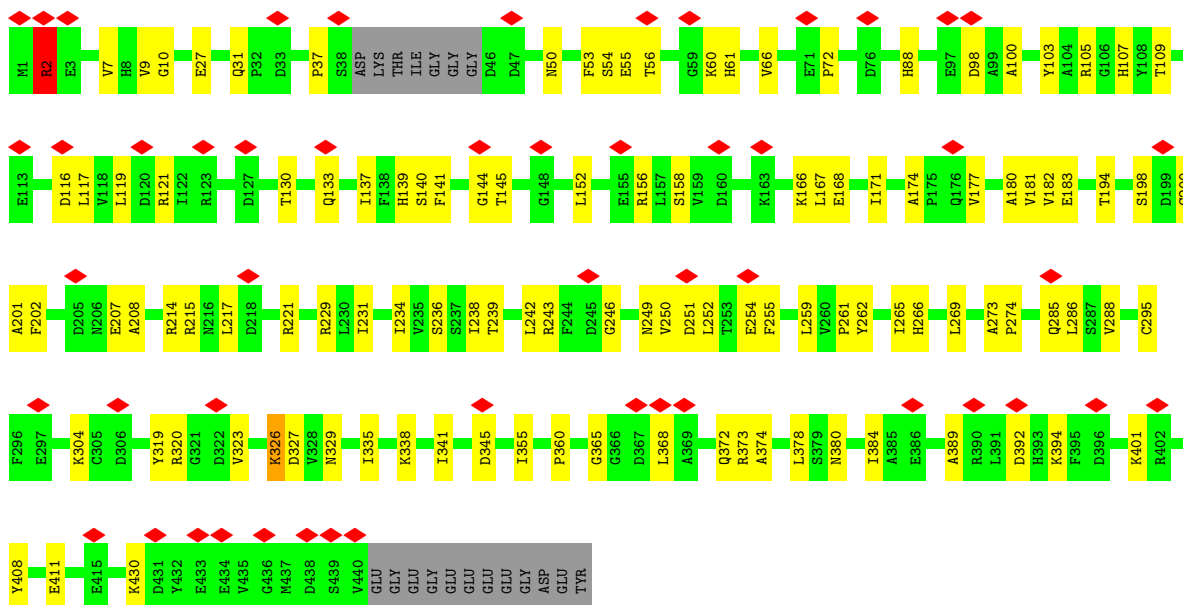


• Molecule 42: Tubulin alpha-1D chain

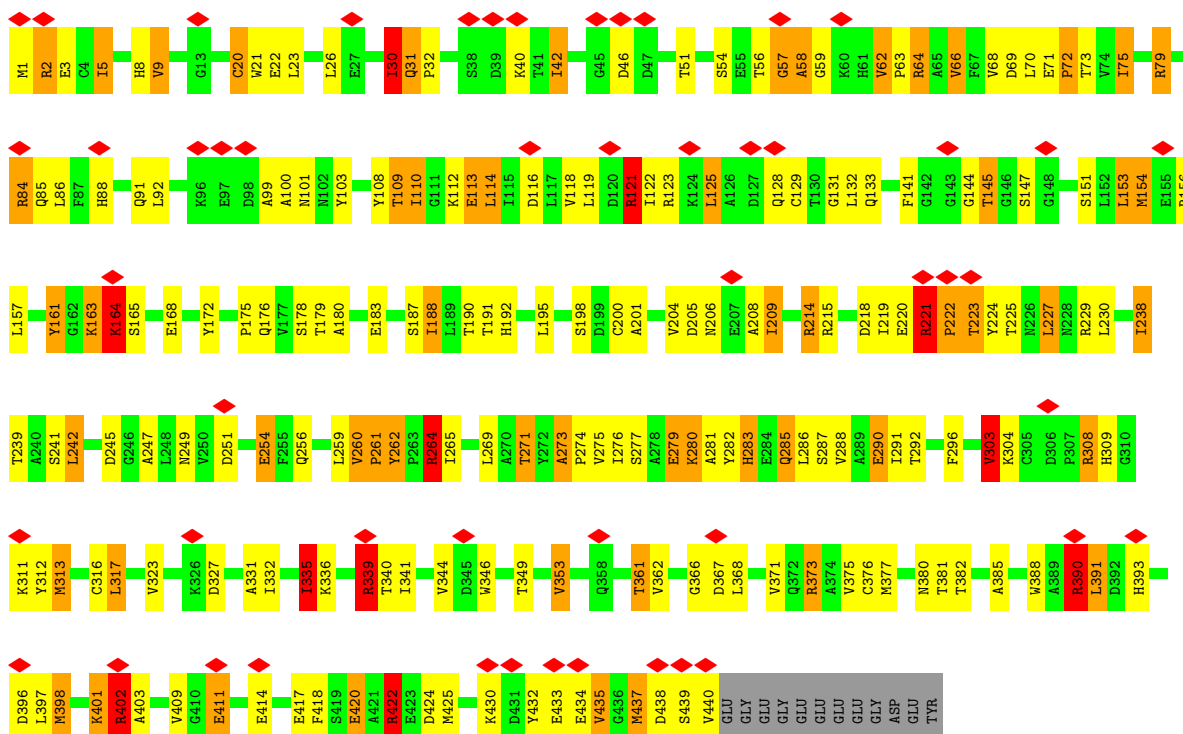


• Molecule 42: Tubulin alpha-1D chain



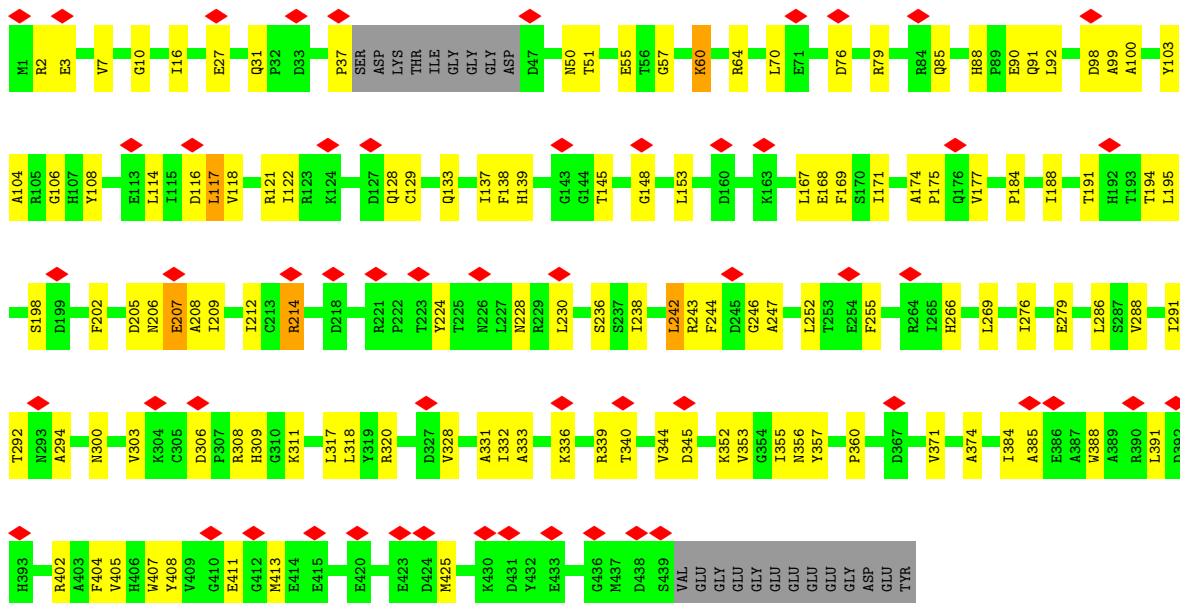


• Molecule 42: Tubulin alpha-1D chain

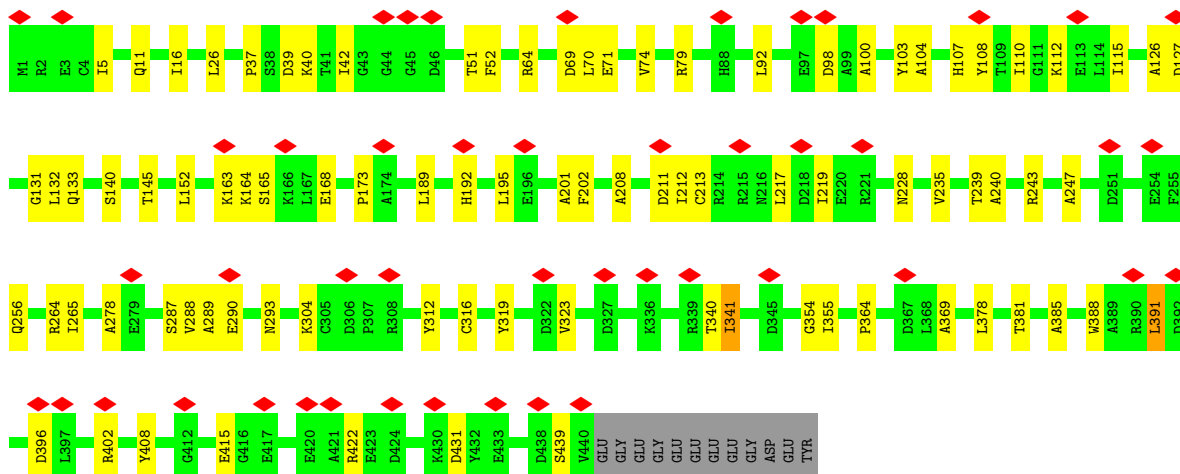
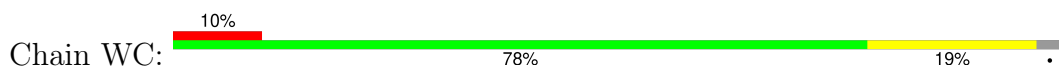


• Molecule 42: Tubulin alpha-1D chain

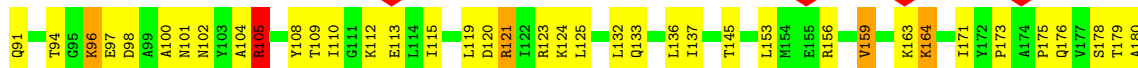
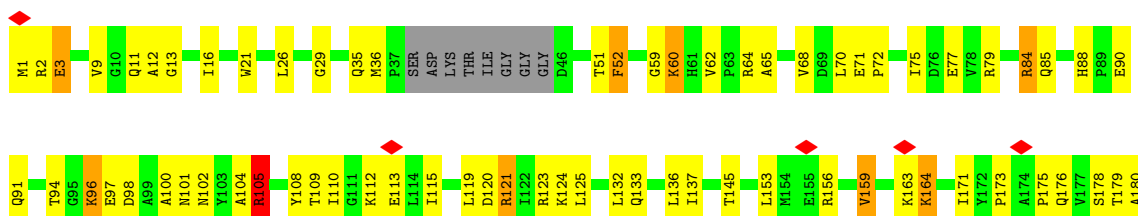


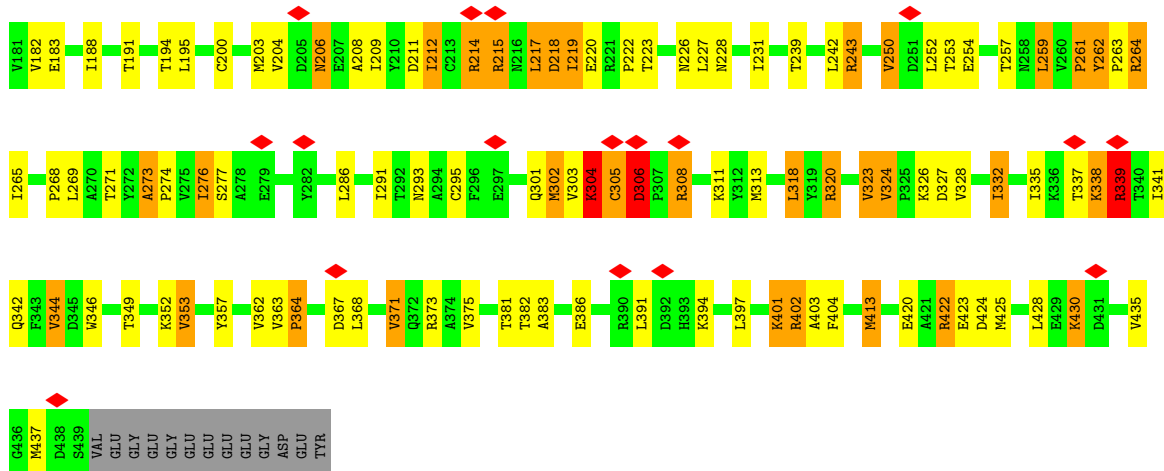


• Molecule 42: Tubulin alpha-1D chain

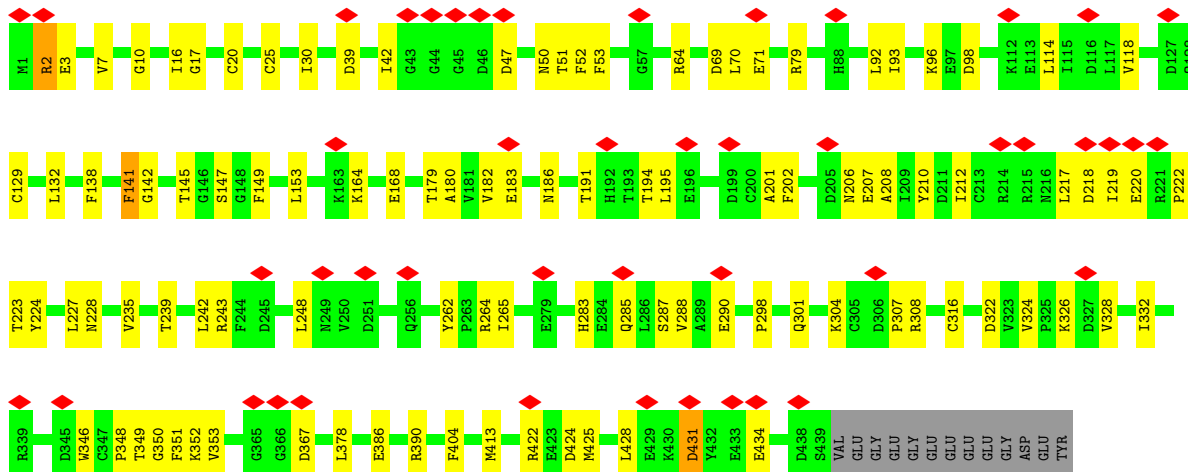
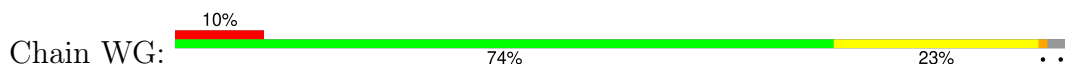


• Molecule 42: Tubulin alpha-1D chain

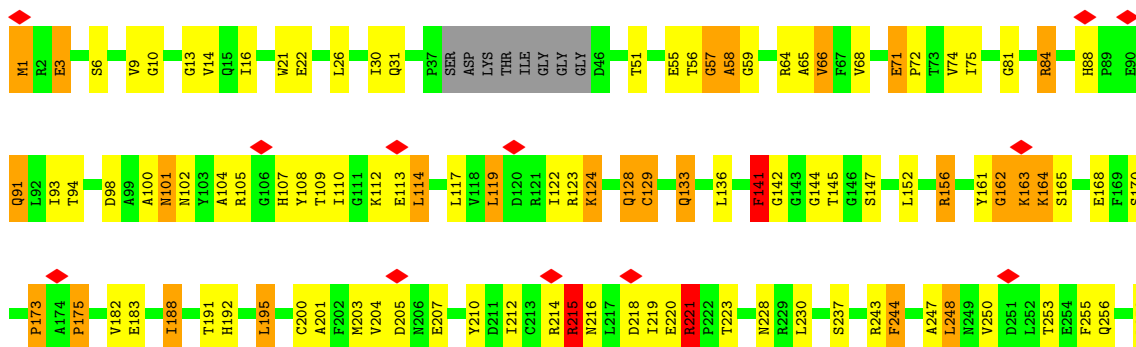


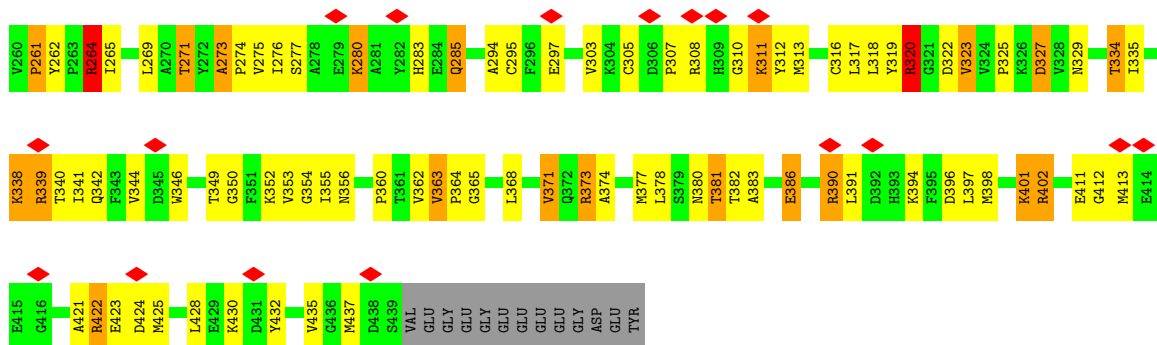


• Molecule 42: Tubulin alpha-1D chain

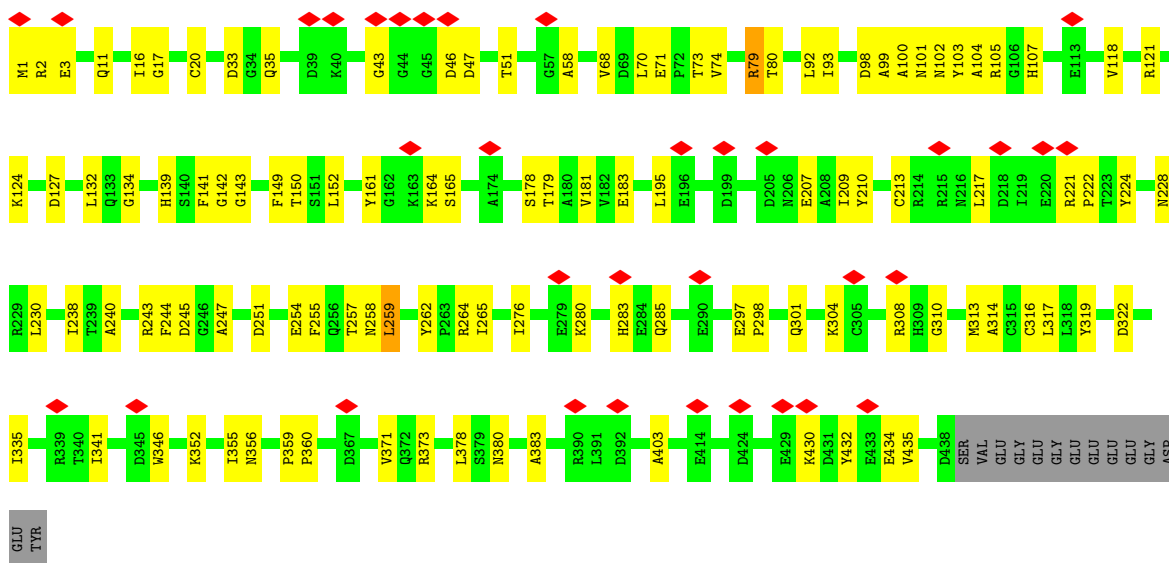
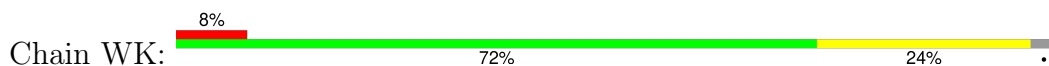


• Molecule 42: Tubulin alpha-1D chain

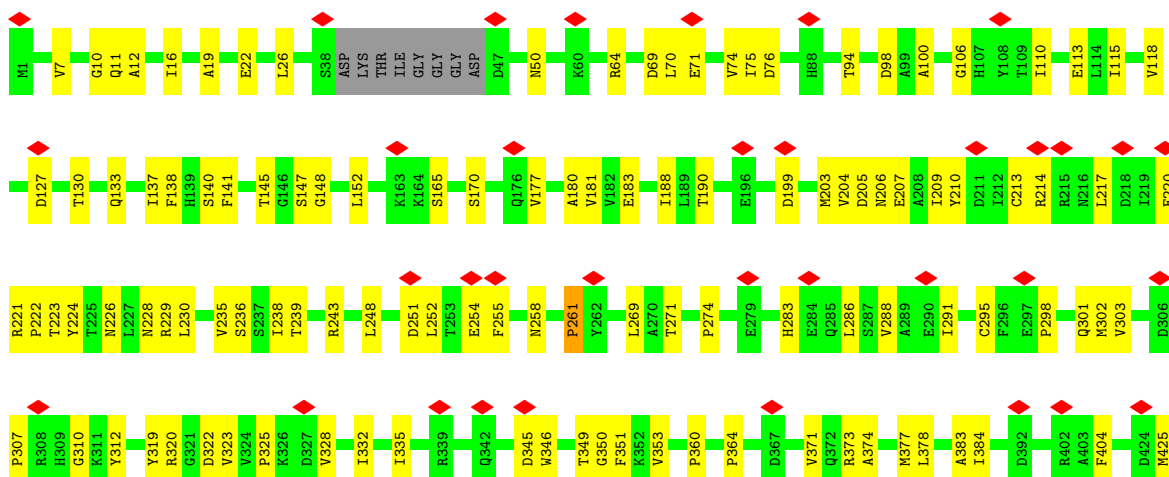
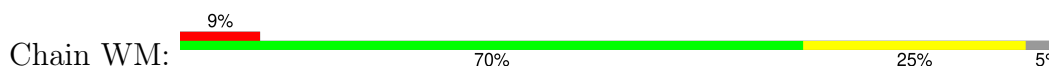


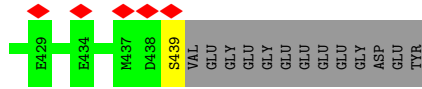


• Molecule 42: Tubulin alpha-1D chain



• Molecule 42: Tubulin alpha-1D chain





4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	153589	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 ($e^-/\text{\AA}^2$)	50	Depositor
Minimum defocus (nm)	500	Depositor
Maximum defocus (nm)	2500	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	2.542	Depositor
Minimum map value	0.000	Depositor
Average map value	0.011	Depositor
Map value standard deviation	0.078	Depositor
Recommended contour level	0.3	Depositor
Map size (\AA)	686.08, 686.08, 686.08	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	1.34, 1.34, 1.34	Depositor

5 Model quality i

5.1 Standard geometry i

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

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	0.22	0/2435	0.37	0/3389
2	1D	0.44	0/1114	0.73	1/1488 (0.1%)
2	1E	0.45	0/1577	0.83	3/2102 (0.1%)
2	1F	0.30	0/701	0.73	0/930
3	1H	0.36	0/693	0.60	0/922
3	1I	0.34	0/3271	0.69	2/4333 (0.0%)
4	1K	0.34	0/1405	0.69	3/1922 (0.2%)
4	1L	0.36	0/276	0.66	0/372
5	1N	0.37	0/921	0.70	2/1253 (0.2%)
5	1O	0.30	0/938	0.60	0/1276
5	1P	0.32	0/957	0.61	0/1302
6	1R	0.32	0/801	0.63	0/1073
7	1T	0.31	0/2105	0.64	0/2851
7	1U	0.32	0/2105	0.72	2/2851 (0.1%)
8	1W	0.65	0/1166	0.66	0/1565
8	1X	0.30	0/1565	0.65	1/2111 (0.0%)
8	1Y	0.30	0/1565	0.65	2/2111 (0.1%)
8	1Z	0.31	0/1565	0.77	4/2111 (0.2%)
8	2A	0.41	0/1565	0.71	2/2111 (0.1%)
8	2B	4.82	8/1565 (0.5%)	1.03	9/2111 (0.4%)
9	2D	3.11	6/3746 (0.2%)	0.75	11/5066 (0.2%)
9	2E	0.26	0/832	0.51	0/1122
10	2F	0.30	0/646	0.57	0/871
10	2G	0.33	0/646	0.62	0/871
10	2H	0.30	0/646	0.63	0/871
11	2J	0.35	0/1359	0.78	4/1811 (0.2%)
11	2K	0.39	0/2567	0.77	3/3392 (0.1%)
11	2L	0.33	0/2344	0.76	4/3111 (0.1%)
11	2M	0.40	2/1598 (0.1%)	0.78	5/2115 (0.2%)
12	2O	0.41	1/4812 (0.0%)	0.74	5/6515 (0.1%)
12	2P	0.36	0/4812	0.73	8/6515 (0.1%)
12	2Q	0.38	1/4812 (0.0%)	0.72	4/6515 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
13	2S	0.30	0/2089	0.66	1/2798 (0.0%)
13	2T	0.43	0/1706	0.67	0/2257
14	2V	0.25	0/298	0.57	0/402
14	2W	0.31	0/1800	0.71	1/2430 (0.0%)
14	2X	0.30	0/1754	0.69	3/2370 (0.1%)
14	2Y	0.32	0/1359	0.70	2/1842 (0.1%)
15	3A	0.42	0/1525	0.75	2/2064 (0.1%)
16	3C	0.44	0/1739	0.75	2/2338 (0.1%)
16	3D	0.32	0/547	0.59	0/739
17	3F	0.21	0/516	0.37	0/713
18	3H	0.24	0/480	0.43	0/668
19	3J	0.41	1/3656 (0.0%)	0.74	5/4945 (0.1%)
19	3K	0.35	0/3747	0.70	4/5069 (0.1%)
19	3L	0.35	0/3823	0.73	8/5172 (0.2%)
20	3N	0.35	0/2452	0.75	7/3310 (0.2%)
20	3O	0.33	0/4889	0.70	6/6578 (0.1%)
20	3P	0.31	0/4895	0.63	2/6590 (0.0%)
20	3Q	0.30	0/2450	0.63	0/3282
21	3S	0.42	0/573	0.54	0/771
21	3T	0.31	0/1982	0.64	3/2659 (0.1%)
21	3U	0.30	0/1982	0.62	3/2659 (0.1%)
21	3V	0.31	0/1733	0.59	2/2322 (0.1%)
22	3X	0.31	0/1047	0.62	0/1413
22	3Y	0.50	0/1153	0.77	1/1557 (0.1%)
22	3Z	0.96	4/1093 (0.4%)	1.35	7/1474 (0.5%)
22	4A	0.39	0/867	0.66	0/1170
22	4B	0.32	0/856	0.59	0/1153
22	4C	0.28	0/685	0.54	0/920
23	4D	0.36	0/1019	0.69	0/1379
24	4F	0.49	0/1268	0.64	0/1685
24	4G	0.38	0/2909	0.71	1/3853 (0.0%)
25	4I	0.28	0/2575	0.58	2/3508 (0.1%)
25	4J	0.36	0/3011	0.68	1/4065 (0.0%)
26	4K	0.37	0/1114	0.78	4/1495 (0.3%)
26	4L	0.36	0/1933	0.75	2/2595 (0.1%)
26	4M	0.29	0/886	0.72	3/1189 (0.3%)
27	4O	0.31	0/1810	0.61	0/2446
27	4P	0.29	0/1810	0.62	1/2446 (0.0%)
27	4Q	0.38	1/1810 (0.1%)	0.70	2/2446 (0.1%)
27	4R	0.67	0/1810	0.65	0/2446
27	4S	0.29	0/1810	0.63	1/2446 (0.0%)
27	4T	0.40	0/1810	0.60	1/2446 (0.0%)
28	4V	0.34	0/312	0.66	0/424

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
28	4W	0.33	0/676	0.69	0/918
29	4Y	0.59	2/802 (0.2%)	0.74	1/1094 (0.1%)
30	5A	0.30	0/2949	0.65	1/3937 (0.0%)
30	5B	0.26	0/136	0.57	0/183
31	5D	0.25	0/1284	0.53	0/1731
31	5E	0.36	0/1278	0.59	0/1724
31	5F	0.26	0/1301	0.52	0/1753
31	5G	0.28	0/1284	0.62	1/1731 (0.1%)
31	5H	0.38	3/1284 (0.2%)	0.55	0/1731
31	5I	0.24	0/1284	0.46	0/1731
31	5J	0.27	0/1284	0.51	0/1731
32	5L	0.40	0/951	0.67	2/1279 (0.2%)
32	5M	0.32	0/3270	0.63	1/4403 (0.0%)
32	5N	0.30	0/3270	0.64	5/4403 (0.1%)
32	5O	0.64	0/2445	0.63	0/3290
33	5Q	0.36	0/917	0.67	0/1244
33	5R	0.42	3/3290 (0.1%)	0.68	4/4434 (0.1%)
33	5S	0.47	0/3290	0.64	2/4434 (0.0%)
33	5T	0.63	0/2523	0.66	0/3388
33	5V	0.41	0/2541	0.80	2/3414 (0.1%)
33	5W	0.36	0/3378	0.73	3/4552 (0.1%)
33	5X	0.41	0/3378	0.79	10/4552 (0.2%)
33	5Y	0.45	0/892	0.71	0/1210
34	6A	0.64	0/2272	0.72	0/3060
34	6B	0.40	0/3230	0.71	3/4355 (0.1%)
34	6C	0.65	0/3241	0.63	0/4369
34	6D	0.63	0/999	0.63	0/1347
34	6E	0.67	1/489 (0.2%)	0.65	0/656
34	6F	0.37	0/2930	0.66	2/3947 (0.1%)
34	6G	0.34	0/3432	0.65	6/4630 (0.1%)
34	6H	0.40	0/3031	0.72	8/4086 (0.2%)
34	6I	0.47	0/542	0.68	0/734
34	6J	0.33	0/571	0.68	2/780 (0.3%)
34	6K	0.32	0/3071	0.64	0/4147
34	6L	0.39	1/3462 (0.0%)	0.61	1/4675 (0.0%)
34	6M	0.34	0/2957	0.63	1/3983 (0.0%)
34	6N	0.32	0/447	0.74	1/600 (0.2%)
35	6P	0.34	0/1520	0.61	1/2050 (0.0%)
35	6Q	0.45	4/3415 (0.1%)	0.66	3/4600 (0.1%)
35	6R	0.46	1/3415 (0.0%)	0.74	4/4600 (0.1%)
35	6S	0.47	0/2076	0.63	1/2791 (0.0%)
35	6T	0.35	0/1936	0.72	2/2601 (0.1%)
35	6U	0.34	0/3465	0.67	2/4671 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
35	6V	0.41	0/3625	0.69	4/4886 (0.1%)
35	6W	0.42	0/1799	0.69	2/2427 (0.1%)
36	6Y	0.31	0/1318	0.64	1/1783 (0.1%)
36	6Z	0.28	0/1318	0.55	0/1783
37	7C	0.43	0/923	0.96	1/1247 (0.1%)
37	7D	0.41	0/642	0.90	3/877 (0.3%)
37	7E	0.34	0/640	0.72	0/862
37	7F	0.48	0/539	0.60	0/731
38	7H	0.40	0/657	0.88	1/892 (0.1%)
38	7I	0.51	0/245	0.71	0/333
39	7K	0.41	0/900	0.64	0/1209
39	7L	0.32	0/396	0.68	1/538 (0.2%)
40	7N	0.38	0/534	0.76	2/721 (0.3%)
41	AB	0.37	0/3500	0.69	5/4742 (0.1%)
41	AD	0.35	1/3500 (0.0%)	0.62	2/4742 (0.0%)
41	AF	0.31	0/3500	0.62	1/4742 (0.0%)
41	AH	0.66	0/3500	0.67	0/4742
41	AJ	0.38	0/3500	0.59	0/4742
41	AL	0.65	0/3500	0.70	0/4742
41	BB	0.33	0/3431	0.67	3/4649 (0.1%)
41	BD	0.66	0/3431	0.68	0/4649
41	BF	0.31	0/3436	0.59	0/4656
41	BH	0.37	1/3431 (0.0%)	0.62	1/4649 (0.0%)
41	BJ	0.37	0/3431	0.66	5/4649 (0.1%)
41	BL	2.79	6/3415 (0.2%)	0.71	6/4628 (0.1%)
41	CB	0.39	3/3423 (0.1%)	0.72	7/4638 (0.2%)
41	CD	0.66	0/3423	0.68	0/4638
41	CF	0.66	0/3436	0.69	0/4656
41	CH	0.36	0/3431	0.71	9/4649 (0.2%)
41	CJ	0.66	0/3436	0.68	0/4656
41	CL	0.37	0/3415	0.70	3/4628 (0.1%)
41	DB	0.43	0/3423	0.81	5/4638 (0.1%)
41	DD	0.40	0/3423	0.74	3/4638 (0.1%)
41	DF	0.44	0/3423	0.83	10/4638 (0.2%)
41	DH	0.67	0/3423	0.70	0/4638
41	DJ	0.66	0/3423	0.69	0/4638
41	DL	0.47	0/3415	0.74	4/4628 (0.1%)
41	ED	0.66	0/3423	0.69	0/4638
41	EF	0.39	0/3423	0.77	7/4638 (0.2%)
41	EH	0.38	0/3436	0.82	6/4656 (0.1%)
41	EJ	0.49	3/3423 (0.1%)	0.84	11/4638 (0.2%)
41	EL	0.49	0/3415	0.78	8/4628 (0.2%)
41	FD	0.66	0/3431	0.68	0/4649

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
41	FF	0.41	1/3423 (0.0%)	0.73	5/4638 (0.1%)
41	FH	0.42	0/3423	0.77	4/4638 (0.1%)
41	FJ	0.41	0/3423	0.73	5/4638 (0.1%)
41	FL	0.66	0/3415	0.68	0/4628
41	GD	0.65	0/3431	0.70	0/4649
41	GF	0.36	1/3436 (0.0%)	0.71	6/4656 (0.1%)
41	GH	0.38	0/3436	0.72	4/4656 (0.1%)
41	GJ	0.65	0/3436	0.68	0/4656
41	GL	0.32	0/3415	0.66	1/4628 (0.0%)
41	HB	0.41	1/3423 (0.0%)	0.75	6/4638 (0.1%)
41	HD	0.65	0/3431	0.66	0/4649
41	HF	0.41	0/3436	0.74	4/4656 (0.1%)
41	HH	0.40	0/3431	0.74	7/4649 (0.2%)
41	HJ	0.65	0/3436	0.67	0/4656
41	HL	0.37	0/3415	0.71	3/4628 (0.1%)
41	ID	0.33	0/3431	0.66	1/4649 (0.0%)
41	IF	0.36	1/3436 (0.0%)	0.64	0/4656
41	IH	0.34	0/3431	0.64	2/4649 (0.0%)
41	IJ	0.45	3/3436 (0.1%)	0.67	3/4656 (0.1%)
41	IL	0.38	0/3423	0.69	3/4638 (0.1%)
41	IN	0.62	1/3436 (0.0%)	1.07	15/4656 (0.3%)
41	JD	0.46	1/3431 (0.0%)	0.72	7/4649 (0.2%)
41	JF	0.35	0/3423	0.70	7/4638 (0.2%)
41	JH	0.37	0/3423	0.70	2/4638 (0.0%)
41	JJ	0.35	0/3423	0.72	5/4638 (0.1%)
41	JL	0.65	0/3423	0.68	0/4638
41	KD	0.36	0/3436	0.75	12/4656 (0.3%)
41	KF	0.34	0/3431	0.59	1/4649 (0.0%)
41	KH	0.32	0/3443	0.59	1/4666 (0.0%)
41	KJ	0.33	0/3423	0.62	3/4638 (0.1%)
41	KL	0.33	0/3443	0.61	2/4666 (0.0%)
41	KN	0.32	0/3436	0.61	0/4656
41	LD	0.65	0/3431	0.69	0/4649
41	LF	0.30	0/3436	0.57	0/4656
41	LH	0.32	0/3436	0.59	0/4656
41	LJ	0.35	0/3436	0.63	5/4656 (0.1%)
41	LL	0.32	0/3423	0.63	4/4638 (0.1%)
41	LN	0.29	0/3436	0.59	2/4656 (0.0%)
41	MD	0.65	0/3423	0.69	0/4638
41	MF	0.65	0/3436	0.69	0/4656
41	MH	0.31	0/3436	0.62	0/4656
41	MJ	0.36	0/3423	0.65	3/4638 (0.1%)
41	ML	0.40	0/3423	0.74	4/4638 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
41	MN	0.66	0/3423	0.69	0/4638
41	NB	0.65	0/3436	0.70	0/4656
41	ND	0.65	0/3431	0.71	0/4649
41	NF	0.66	0/3431	0.70	1/4649 (0.0%)
41	NH	0.65	0/3436	0.69	1/4656 (0.0%)
41	NJ	0.41	0/3436	0.69	1/4656 (0.0%)
41	NL	0.38	0/3188	0.76	8/4316 (0.2%)
41	OB	0.66	0/3414	0.67	0/4626
41	OD	0.39	0/3401	0.78	6/4608 (0.1%)
41	OF	0.43	0/3414	0.76	9/4626 (0.2%)
41	OH	0.65	0/3436	0.71	0/4656
41	OJ	0.65	0/3436	0.69	0/4656
41	OL	0.39	0/3401	0.76	5/4608 (0.1%)
41	PB	0.65	0/3431	0.72	1/4649 (0.0%)
41	PD	0.65	0/3431	0.71	0/4649
41	PF	0.65	0/3436	0.71	0/4656
41	PH	0.67	0/3436	1.07	16/4656 (0.3%)
41	PJ	0.65	0/3436	1.03	5/4656 (0.1%)
41	PL	0.64	0/3415	0.70	0/4628
41	QB	0.39	0/3436	0.78	8/4656 (0.2%)
41	QD	0.39	1/3431 (0.0%)	0.81	9/4649 (0.2%)
41	QF	0.39	0/3436	0.76	7/4656 (0.2%)
41	QH	0.65	0/3436	0.74	0/4656
41	QJ	0.65	0/3436	0.74	1/4656 (0.0%)
41	QL	0.65	0/3423	0.71	0/4638
41	RB	0.39	1/3436 (0.0%)	0.79	8/4656 (0.2%)
41	RD	0.65	0/3431	0.71	0/4649
41	RF	0.66	0/3436	0.74	0/4656
41	RH	0.43	0/3436	0.74	3/4656 (0.1%)
41	RJ	0.66	0/3436	0.71	0/4656
41	RL	0.41	0/3423	0.81	8/4638 (0.2%)
41	SD	0.44	1/3431 (0.0%)	0.91	10/4649 (0.2%)
41	SF	0.65	0/3436	0.71	0/4656
41	SH	0.43	3/3436 (0.1%)	0.83	9/4656 (0.2%)
41	SJ	0.42	1/3436 (0.0%)	0.79	6/4656 (0.1%)
41	SL	0.65	0/3423	0.71	0/4638
41	TD	0.38	0/3431	0.81	12/4649 (0.3%)
41	TF	0.46	2/3436 (0.1%)	0.82	3/4656 (0.1%)
41	TH	0.38	0/3436	0.77	8/4656 (0.2%)
41	TJ	0.44	0/3436	0.76	4/4656 (0.1%)
41	TL	0.42	1/3423 (0.0%)	0.82	10/4638 (0.2%)
41	UD	0.42	0/3431	0.73	5/4649 (0.1%)
41	UF	0.39	0/3436	0.72	2/4656 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
41	UH	0.39	0/3436	0.74	6/4656 (0.1%)
41	UJ	0.43	0/3436	0.87	12/4656 (0.3%)
41	UL	0.54	5/3423 (0.1%)	0.79	5/4638 (0.1%)
41	VD	0.38	0/3431	0.74	4/4649 (0.1%)
41	VF	0.42	0/3431	0.70	5/4649 (0.1%)
41	VH	0.40	0/3436	0.72	3/4656 (0.1%)
41	VJ	0.43	0/3436	0.73	3/4656 (0.1%)
41	VL	0.34	0/3423	0.67	4/4638 (0.1%)
41	WD	0.36	0/3431	0.68	3/4649 (0.1%)
41	WF	0.65	0/3423	0.70	0/4638
41	WH	0.65	0/3423	0.69	0/4638
41	WJ	0.36	0/3423	0.65	4/4638 (0.1%)
41	WL	0.36	0/3423	0.67	2/4638 (0.0%)
41	WN	0.36	0/3423	0.67	2/4638 (0.0%)
42	AC	0.31	0/3515	0.61	1/4771 (0.0%)
42	AE	0.36	0/3515	0.64	3/4771 (0.1%)
42	AG	0.38	0/3515	0.62	1/4771 (0.0%)
42	AI	0.66	0/3515	0.65	0/4771
42	AK	0.66	0/3515	0.69	0/4771
42	BC	0.36	1/3515 (0.0%)	0.68	3/4771 (0.1%)
42	BE	0.35	0/3473	0.66	3/4714 (0.1%)
42	BG	0.39	1/3515 (0.0%)	0.67	5/4771 (0.1%)
42	BI	0.65	0/3451	0.68	0/4684
42	BK	0.32	0/3508	0.63	2/4761 (0.0%)
42	CC	0.66	0/3502	0.68	0/4753
42	CE	0.34	0/3502	0.66	5/4753 (0.1%)
42	CG	0.66	0/3508	0.69	0/4761
42	CI	0.33	0/3508	0.65	1/4761 (0.0%)
42	CK	0.40	0/3508	0.72	8/4761 (0.2%)
42	CM	0.71	6/3508 (0.2%)	0.90	12/4761 (0.3%)
42	DC	0.43	0/3443	0.77	4/4673 (0.1%)
42	DE	0.39	1/3449 (0.0%)	0.77	8/4681 (0.2%)
42	DG	0.41	1/3456 (0.0%)	0.72	1/4691 (0.0%)
42	DI	0.40	0/3441	0.76	7/4670 (0.1%)
42	DK	0.66	0/3449	0.69	0/4681
42	DM	0.44	2/3449 (0.1%)	0.81	7/4681 (0.1%)
42	EC	0.45	1/3508 (0.0%)	0.83	6/4761 (0.1%)
42	EE	0.67	0/3524	0.68	0/4783
42	EG	0.66	0/3481	0.70	0/4724
42	EI	0.84	7/3486 (0.2%)	0.81	11/4732 (0.2%)
42	EK	0.66	0/3515	0.69	1/4771 (0.0%)
42	EM	0.66	0/3435	0.67	1/4662 (0.0%)
42	FC	0.66	0/3456	0.65	0/4691

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
42	FE	0.43	0/3415	0.73	2/4635 (0.0%)
42	FG	0.41	1/3423 (0.0%)	0.72	5/4647 (0.1%)
42	FI	0.40	0/3422	0.68	2/4644 (0.0%)
42	FK	0.67	0/3401	0.67	0/4617
42	FM	0.44	1/3441 (0.0%)	0.75	6/4669 (0.1%)
42	GC	0.34	0/3515	0.66	2/4771 (0.0%)
42	GE	0.35	0/3448	0.64	1/4680 (0.0%)
42	GG	0.35	0/3470	0.65	2/4710 (0.0%)
42	GI	0.36	0/3442	0.66	1/4672 (0.0%)
42	GK	0.33	0/3440	0.68	2/4668 (0.0%)
42	GM	0.66	0/3508	0.66	0/4761
42	HC	0.65	0/3427	0.65	0/4651
42	HE	0.42	0/3451	0.73	6/4684 (0.1%)
42	HG	0.66	0/3448	0.67	0/4680
42	HI	0.66	0/3448	0.69	0/4680
42	HK	0.45	0/3456	0.74	2/4691 (0.0%)
42	HM	0.66	0/3441	0.66	2/4669 (0.0%)
42	IC	0.34	0/3442	0.65	1/4672 (0.0%)
42	IE	0.65	0/3465	0.69	0/4703
42	IG	0.37	1/3515 (0.0%)	0.67	3/4771 (0.1%)
42	II	0.36	0/3464	0.65	0/4702
42	IK	0.38	0/3515	0.71	2/4771 (0.0%)
42	IM	0.40	1/3455 (0.0%)	0.68	3/4689 (0.1%)
42	JC	0.41	0/3460	0.75	7/4695 (0.1%)
42	JE	0.41	1/3449 (0.0%)	0.67	4/4681 (0.1%)
42	JG	0.35	0/3435	0.66	5/4662 (0.1%)
42	JI	0.36	0/3443	0.69	2/4673 (0.0%)
42	JK	0.66	0/3515	0.67	0/4771
42	JM	0.65	0/3449	0.69	0/4681
42	KC	0.31	0/3461	0.57	0/4697
42	KE	0.30	0/3457	0.59	1/4692 (0.0%)
42	KG	0.33	0/3447	0.61	4/4678 (0.1%)
42	KI	0.33	0/3435	0.62	4/4662 (0.1%)
42	KK	0.35	0/3449	0.62	6/4681 (0.1%)
42	KM	0.65	0/3453	0.68	0/4686
42	LC	0.35	1/3470 (0.0%)	0.60	3/4710 (0.1%)
42	LE	0.31	0/3515	0.60	2/4771 (0.0%)
42	LG	0.34	1/3470 (0.0%)	0.59	3/4710 (0.1%)
42	LI	0.33	1/3474 (0.0%)	0.62	4/4715 (0.1%)
42	LK	0.32	0/3478	0.61	2/4720 (0.0%)
42	LM	0.38	0/3455	0.62	3/4689 (0.1%)
42	MC	0.39	0/3508	0.68	3/4761 (0.1%)
42	ME	0.34	0/3443	0.63	0/4673

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
42	MG	0.65	0/3449	0.68	0/4681
42	MI	0.32	0/3456	0.61	2/4691 (0.0%)
42	MK	0.50	1/3515 (0.0%)	0.80	9/4771 (0.2%)
42	MM	0.40	0/3453	0.73	4/4687 (0.1%)
42	NA	0.65	0/3449	0.69	0/4682
42	NC	0.66	0/3442	0.67	0/4672
42	NE	0.34	0/3451	0.69	2/4684 (0.0%)
42	NG	0.65	0/3464	0.70	0/4702
42	NI	0.65	0/3464	0.71	0/4702
42	NK	0.65	0/3451	0.71	0/4684
42	OA	0.40	0/3435	0.77	6/4663 (0.1%)
42	OC	0.41	2/3443 (0.1%)	0.74	3/4673 (0.1%)
42	OE	0.52	2/3473 (0.1%)	0.85	9/4714 (0.2%)
42	OG	0.65	0/3468	0.69	0/4707
42	OI	0.41	0/3464	0.74	4/4702 (0.1%)
42	OK	0.36	0/3457	0.73	4/4692 (0.1%)
42	PA	0.65	0/2931	0.70	0/3977
42	PC	0.66	0/3463	0.73	0/4700
42	PE	0.64	0/3457	0.72	0/4692
42	PG	0.66	0/3448	1.14	22/4680 (0.5%)
42	PI	0.66	0/3425	1.04	14/4648 (0.3%)
42	PK	0.65	0/3448	0.70	0/4680
42	QC	0.46	1/3449 (0.0%)	0.90	4/4681 (0.1%)
42	QE	0.39	0/3449	0.82	8/4681 (0.2%)
42	QG	0.42	0/3457	0.78	5/4692 (0.1%)
42	QI	0.65	0/3443	0.73	0/4673
42	QK	0.65	0/3457	0.71	0/4692
42	RC	0.68	3/3464 (0.1%)	0.90	10/4702 (0.2%)
42	RE	0.42	0/3435	0.74	1/4662 (0.0%)
42	RG	0.46	1/3448 (0.0%)	0.78	5/4679 (0.1%)
42	RI	0.39	0/3456	0.78	5/4691 (0.1%)
42	RK	0.41	0/3456	0.78	5/4691 (0.1%)
42	SC	0.39	0/3448	0.76	2/4679 (0.0%)
42	SE	0.65	0/3457	0.72	0/4691
42	SG	0.46	0/3456	0.81	7/4691 (0.1%)
42	SI	0.65	0/3434	0.71	0/4661
42	SK	0.42	2/3464 (0.1%)	0.77	3/4702 (0.1%)
42	SM	0.40	0/3455	0.78	5/4689 (0.1%)
42	TC	0.75	3/3448 (0.1%)	0.90	7/4680 (0.1%)
42	TE	0.42	0/3465	0.73	4/4703 (0.1%)
42	TG	0.38	1/3448 (0.0%)	0.79	10/4680 (0.2%)
42	TI	0.66	0/3448	0.73	1/4680 (0.0%)
42	TK	0.66	0/3464	0.71	0/4702

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
42	TM	0.42	1/3449 (0.0%)	0.80	9/4681 (0.2%)
42	UC	0.65	0/3470	0.70	0/4710
42	UE	0.44	1/3465 (0.0%)	0.77	0/4703
42	UG	0.45	0/3470	0.72	4/4710 (0.1%)
42	UI	0.37	0/3470	0.71	5/4710 (0.1%)
42	UK	0.46	0/3468	0.78	7/4707 (0.1%)
42	UM	0.42	0/3455	0.77	6/4689 (0.1%)
42	VC	0.35	0/3515	0.68	3/4771 (0.1%)
42	VE	0.45	3/3473 (0.1%)	0.72	4/4714 (0.1%)
42	VG	0.42	2/3515 (0.1%)	0.67	2/4771 (0.0%)
42	VI	0.37	0/3470	0.68	3/4710 (0.1%)
42	VK	0.65	0/3515	0.69	0/4771
42	VM	0.40	1/3449 (0.0%)	0.70	3/4681 (0.1%)
42	WC	0.36	0/3515	0.66	2/4771 (0.0%)
42	WE	0.65	0/3457	0.70	0/4692
42	WG	0.38	0/3508	0.69	4/4761 (0.1%)
42	WI	0.65	0/3457	0.68	0/4692
42	WK	0.32	0/3502	0.63	2/4753 (0.0%)
42	WM	0.34	0/3455	0.72	5/4689 (0.1%)
All	All	0.56	129/1148355 (0.0%)	0.71	1083/1555321 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	1D	0	4
2	1E	0	4
3	1I	0	1
6	1R	0	1
7	1T	0	1
7	1U	0	1
8	1W	0	10
8	1X	0	1
8	2A	0	5
8	2B	0	1
9	2D	0	3
11	2J	0	1
11	2K	0	4
11	2M	0	1
12	2O	0	3

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Mol	Chain	#Chirality outliers	#Planarity outliers
12	2P	0	1
13	2S	0	1
13	2T	0	6
14	2V	0	1
14	2W	0	2
14	2X	0	1
15	3A	0	3
16	3C	0	3
19	3J	0	2
19	3K	0	1
19	3L	0	2
20	3N	0	3
20	3O	0	3
20	3Q	0	1
21	3U	0	1
22	3Y	0	3
22	4B	0	1
24	4F	0	7
27	4R	0	6
27	4T	0	2
28	4W	0	1
29	4Y	0	1
30	5A	0	1
31	5D	0	1
32	5O	0	20
33	5R	0	1
33	5S	0	14
33	5T	0	17
33	5V	0	5
33	5W	0	2
33	5X	0	2
33	5Y	0	5
34	6A	0	18
34	6B	0	5
34	6C	0	20
34	6D	0	8
34	6E	0	5
34	6F	0	1
34	6H	0	4
34	6L	0	1
35	6R	0	8
35	6S	0	10

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Mol	Chain	#Chirality outliers	#Planarity outliers
35	6V	0	7
35	6W	0	2
36	6Z	0	1
37	7C	0	3
37	7D	0	1
37	7F	0	1
38	7H	0	2
41	AH	0	17
41	AL	0	18
41	BD	0	19
41	CD	0	17
41	CF	0	17
41	CH	0	2
41	CJ	0	19
41	CL	0	1
41	DF	0	1
41	DH	0	18
41	DJ	0	17
41	DL	0	4
41	ED	0	18
41	EF	0	1
41	EH	0	3
41	EJ	0	3
41	EL	0	5
41	FD	0	17
41	FF	0	4
41	FH	0	1
41	FL	0	20
41	GD	0	20
41	GF	0	2
41	GJ	0	20
41	GL	0	1
41	HB	0	2
41	HD	0	15
41	HF	0	1
41	HH	0	2
41	HJ	0	17
41	HL	0	2
41	ID	0	1
41	IF	0	1
41	IJ	0	2
41	IL	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
41	IN	0	15
41	JD	0	2
41	JL	0	18
41	KD	0	2
41	KJ	0	1
41	KN	0	1
41	LD	0	15
41	LJ	0	1
41	MD	0	18
41	MF	0	21
41	MH	0	1
41	MJ	0	1
41	ML	0	1
41	MN	0	19
41	NB	0	18
41	ND	0	15
41	NF	0	17
41	NH	0	20
41	NJ	0	1
41	NL	0	1
41	OB	0	17
41	OD	0	1
41	OF	0	1
41	OH	0	19
41	OJ	0	16
41	OL	0	3
41	PB	0	18
41	PD	0	21
41	PF	0	15
41	PH	0	19
41	PJ	0	18
41	PL	0	17
41	QB	0	1
41	QD	0	1
41	QF	0	1
41	QH	0	21
41	QJ	0	16
41	QL	0	18
41	RB	0	2
41	RD	0	21
41	RF	0	15
41	RH	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
41	RJ	0	18
41	RL	0	1
41	SD	0	2
41	SF	0	17
41	SH	0	4
41	SJ	0	2
41	SL	0	17
41	TD	0	1
41	TF	0	1
41	TH	0	2
41	TJ	0	4
41	UD	0	1
41	UF	0	2
41	UH	0	1
41	UL	0	1
41	VD	0	1
41	VF	0	1
41	VH	0	1
41	VJ	0	4
41	WD	0	1
41	WF	0	17
41	WH	0	19
41	WJ	0	3
42	AI	0	18
42	AK	0	16
42	BC	0	1
42	BE	0	1
42	BI	0	20
42	CC	0	14
42	CG	0	16
42	CK	0	3
42	CM	0	2
42	DC	0	3
42	DG	0	1
42	DI	0	3
42	DK	0	18
42	DM	0	1
42	EC	0	3
42	EE	0	14
42	EG	0	10
42	EI	0	2
42	EK	0	14

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Mol	Chain	#Chirality outliers	#Planarity outliers
42	EM	0	17
42	FC	0	19
42	FE	0	1
42	FG	0	1
42	FI	0	1
42	FK	0	18
42	FM	0	1
42	GC	0	2
42	GE	0	1
42	GK	0	2
42	GM	0	15
42	HC	0	17
42	HG	0	15
42	HI	0	17
42	HK	0	1
42	HM	0	19
42	IC	0	1
42	IE	0	17
42	IG	0	1
42	IK	0	1
42	IM	0	1
42	JC	0	2
42	JI	0	4
42	JK	0	17
42	JM	0	16
42	KM	0	16
42	LI	0	1
42	LK	0	1
42	MC	0	1
42	MG	0	17
42	MM	0	2
42	NA	0	15
42	NC	0	15
42	NE	0	1
42	NG	0	13
42	NI	0	12
42	NK	0	17
42	OA	0	1
42	OC	0	1
42	OE	0	1
42	OG	0	21
42	PA	0	15

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Mol	Chain	#Chirality outliers	#Planarity outliers
42	PC	0	17
42	PE	0	17
42	PG	0	18
42	PI	0	16
42	PK	0	20
42	QC	0	1
42	QE	0	2
42	QI	0	19
42	QK	0	19
42	RI	0	1
42	RK	0	1
42	SC	0	1
42	SE	0	15
42	SG	0	2
42	SI	0	18
42	SK	0	1
42	SM	0	1
42	TC	0	1
42	TG	0	2
42	TI	0	15
42	TK	0	16
42	TM	0	1
42	UC	0	16
42	UE	0	2
42	UG	0	3
42	UI	0	1
42	UK	0	4
42	VC	0	1
42	VG	0	1
42	VI	0	1
42	VK	0	18
42	VM	0	1
42	WC	0	1
42	WE	0	17
42	WI	0	16
42	WK	0	1
All	All	0	1942

All (129) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	2D	567	TYR	CD2-CE2	104.46	2.96	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	2B	15	TYR	CD1-CE1	103.98	2.95	1.39
9	2D	567	TYR	CD1-CE1	101.76	2.92	1.39
8	2B	15	TYR	CD2-CE2	101.38	2.91	1.39
41	BL	281	TYR	CD2-CE2	89.68	2.73	1.39
41	BL	281	TYR	CD1-CE1	87.48	2.70	1.39
9	2D	567	TYR	CE1-CZ	68.29	2.27	1.38
8	2B	15	TYR	CE2-CZ	67.83	2.26	1.38
8	2B	15	TYR	CE1-CZ	66.95	2.25	1.38
9	2D	567	TYR	CE2-CZ	66.81	2.25	1.38
41	BL	281	TYR	CE1-CZ	57.55	2.13	1.38
41	BL	281	TYR	CE2-CZ	57.50	2.13	1.38
8	2B	15	TYR	CG-CD2	52.41	2.07	1.39
9	2D	567	TYR	CG-CD1	52.32	2.07	1.39
8	2B	15	TYR	CG-CD1	52.07	2.06	1.39
9	2D	567	TYR	CG-CD2	51.87	2.06	1.39
41	BL	281	TYR	CG-CD2	44.42	1.96	1.39
41	BL	281	TYR	CG-CD1	43.75	1.96	1.39
42	TC	261	PRO	CG-CD	-35.32	0.34	1.50
42	EI	346	TRP	CZ3-CH2	29.50	1.87	1.40
42	RC	298	PRO	CG-CD	-24.79	0.68	1.50
42	CM	173	PRO	CB-CG	22.30	2.61	1.50
42	CM	173	PRO	CG-CD	-22.21	0.77	1.50
22	3Z	245	PRO	CB-CG	20.06	2.50	1.50
42	OE	32	PRO	CG-CD	-19.38	0.86	1.50
42	EI	346	TRP	CB-CG	-19.09	1.15	1.50
8	2B	164	ARG	CD-NE	18.84	1.78	1.46
42	RC	298	PRO	CB-CG	17.27	2.36	1.50
22	3Z	245	PRO	CG-CD	-17.12	0.94	1.50
42	MK	274	PRO	CG-CD	-15.81	0.98	1.50
42	EI	346	TRP	CE2-CZ2	15.41	1.66	1.39
42	RC	298	PRO	N-CD	15.01	1.68	1.47
8	2B	164	ARG	NE-CZ	13.73	1.50	1.33
41	IN	276	ARG	NE-CZ	13.03	1.50	1.33
41	EJ	391	ARG	CG-CD	12.92	1.84	1.51
42	JE	224	TYR	CD2-CE2	-12.69	1.20	1.39
42	EI	346	TRP	CG-CD1	12.57	1.54	1.36
42	QC	268	PRO	CG-CD	-12.34	1.09	1.50
42	EC	298	PRO	CG-CD	-12.14	1.10	1.50
42	EI	346	TRP	CD2-CE2	10.40	1.53	1.41
41	IJ	325	GLU	CB-CG	-10.28	1.32	1.52
33	5R	116	CYS	CB-SG	-10.16	1.65	1.82
22	3Z	244	VAL	C-N	9.40	1.52	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	DM	304	LYS	CD-CE	-9.32	1.27	1.51
41	EJ	391	ARG	CB-CG	8.77	1.76	1.52
29	4Y	59	LYS	CD-CE	8.65	1.72	1.51
41	GF	320	ARG	CG-CD	8.39	1.73	1.51
41	IJ	325	GLU	CG-CD	-8.07	1.39	1.51
42	VE	168	GLU	CB-CG	-7.97	1.37	1.52
41	SD	357	PRO	N-CA	7.95	1.60	1.47
42	CM	172	TYR	C-N	7.89	1.49	1.34
35	6Q	257	TRP	CE3-CZ3	-7.80	1.25	1.38
42	CM	315	CYS	CB-SG	-7.70	1.69	1.82
41	IJ	325	GLU	CD-OE2	-7.60	1.17	1.25
41	UL	108	GLU	CB-CG	-7.43	1.38	1.52
29	4Y	58	TYR	CD2-CE2	-7.31	1.28	1.39
42	VE	168	GLU	CG-CD	-7.30	1.41	1.51
41	JD	179	VAL	CB-CG1	-7.28	1.37	1.52
41	UL	330	MET	CB-CG	-7.18	1.28	1.51
42	FM	25	CYS	CB-SG	-7.09	1.70	1.82
42	LI	55	GLU	CD-OE2	-7.02	1.18	1.25
35	6Q	367	GLU	CG-CD	-7.01	1.41	1.51
41	FF	113	VAL	CB-CG1	-6.96	1.38	1.52
41	RB	5	VAL	CB-CG2	-6.91	1.38	1.52
42	VE	168	GLU	CD-OE2	-6.83	1.18	1.25
42	OE	32	PRO	N-CD	6.81	1.57	1.47
42	TC	261	PRO	CB-CG	6.73	1.83	1.50
42	TC	261	PRO	N-CD	6.66	1.57	1.47
42	EI	346	TRP	CA-CB	-6.62	1.39	1.53
42	VG	328	VAL	CB-CG2	-6.59	1.39	1.52
42	EI	224	TYR	CD1-CE1	-6.52	1.29	1.39
12	2O	527	ARG	CG-CD	-6.50	1.35	1.51
41	TF	313	VAL	CB-CG2	-6.49	1.39	1.52
42	SK	4	CYS	CB-SG	-6.47	1.71	1.82
35	6Q	257	TRP	CZ3-CH2	6.35	1.50	1.40
41	UL	108	GLU	CG-CD	-6.32	1.42	1.51
41	TL	291	GLN	CG-CD	-6.27	1.36	1.51
42	DE	364	PRO	CG-CD	-6.20	1.30	1.50
34	6E	389	LYS	CE-NZ	-6.13	1.33	1.49
42	CM	173	PRO	CA-C	-6.12	1.40	1.52
22	3Z	245	PRO	CA-CB	-6.10	1.41	1.53
35	6Q	257	TRP	CB-CG	-6.02	1.39	1.50
41	TF	313	VAL	CB-CG1	-6.02	1.40	1.52
42	OC	181	VAL	CB-CG1	-6.01	1.40	1.52
42	VG	323	VAL	CB-CG1	-6.00	1.40	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
41	CB	50	TYR	CD2-CE2	-5.98	1.30	1.39
42	CM	312	TYR	CD2-CE2	-5.91	1.30	1.39
42	OC	3	GLU	CG-CD	-5.91	1.43	1.51
12	2Q	441	GLU	CD-OE2	-5.90	1.19	1.25
42	IM	388	TRP	CE3-CZ3	-5.87	1.28	1.38
42	BC	429	GLU	CB-CG	-5.86	1.41	1.52
31	5H	76	GLU	CB-CG	-5.81	1.41	1.52
41	UL	330	MET	CG-SD	-5.80	1.66	1.81
41	AD	255	VAL	CB-CG1	-5.79	1.40	1.52
42	SK	261	PRO	C-N	-5.75	1.20	1.34
41	HB	181	GLU	CD-OE2	-5.62	1.19	1.25
42	LC	168	GLU	CB-CG	-5.60	1.41	1.52
42	FG	364	PRO	CG-CD	-5.54	1.32	1.50
41	CB	50	TYR	CE2-CZ	-5.50	1.31	1.38
34	6L	341	ASN	CB-CG	-5.50	1.38	1.51
41	UL	349	VAL	CB-CG2	5.50	1.64	1.52
42	TM	267	PHE	CD2-CE2	-5.46	1.28	1.39
41	SJ	303	CYS	CB-SG	-5.44	1.73	1.81
33	5R	328	GLU	CG-CD	-5.42	1.43	1.51
41	SH	299	MET	CB-CG	-5.42	1.34	1.51
41	SH	268	PRO	CG-CD	-5.41	1.32	1.50
11	2M	499	ARG	CB-CG	5.34	1.67	1.52
42	VM	207	GLU	CB-CG	-5.32	1.42	1.52
11	2M	499	ARG	CG-CD	5.30	1.65	1.51
42	DM	304	LYS	CG-CD	-5.29	1.34	1.52
42	LG	129	CYS	CB-SG	-5.28	1.73	1.81
41	BH	158	GLU	CG-CD	-5.27	1.44	1.51
42	DG	432	TYR	CD2-CE2	-5.25	1.31	1.39
31	5H	76	GLU	CD-OE2	-5.23	1.19	1.25
31	5H	76	GLU	CG-CD	-5.23	1.44	1.51
27	4Q	77	GLU	CD-OE1	-5.21	1.20	1.25
33	5R	367	TYR	CD1-CE1	-5.20	1.31	1.39
42	BG	154	MET	CB-CG	-5.19	1.34	1.51
41	IF	407	GLU	CB-CG	-5.19	1.42	1.52
42	IG	124	LYS	CD-CE	-5.17	1.38	1.51
42	RG	27	GLU	CG-CD	-5.16	1.44	1.51
41	SH	125	GLU	CD-OE1	-5.16	1.20	1.25
41	EJ	357	PRO	CG-CD	-5.14	1.33	1.50
19	3J	308	PHE	C-N	5.13	1.44	1.34
42	UE	182	VAL	CB-CG2	-5.12	1.42	1.52
42	TG	3	GLU	CG-CD	-5.10	1.44	1.51
41	QD	303	CYS	CB-SG	-5.09	1.73	1.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
41	CB	24	ILE	CG1-CD1	-5.01	1.15	1.50
35	6R	121	VAL	CB-CG1	-5.01	1.42	1.52

All (1083) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	TC	261	PRO	N-CD-CG	-32.13	55.01	103.20
41	IN	276	ARG	CD-NE-CZ	29.54	164.96	123.60
8	2B	164	ARG	CD-NE-CZ	28.16	163.03	123.60
42	CM	173	PRO	CB-CG-CD	-27.29	0.07	106.50
42	QC	268	PRO	N-CD-CG	-27.15	62.48	103.20
22	3Z	245	PRO	N-CD-CG	-26.48	63.48	103.20
41	SD	357	PRO	N-CD-CG	-25.02	65.67	103.20
42	RC	298	PRO	CB-CG-CD	-23.23	15.92	106.50
42	QC	268	PRO	CA-CB-CG	-21.82	62.53	104.00
41	EH	68	LEU	CB-CG-CD1	-20.99	75.31	111.00
41	SD	357	PRO	CA-CB-CG	-20.70	64.66	104.00
42	OE	32	PRO	N-CD-CG	-20.65	72.22	103.20
22	3Z	245	PRO	CA-CB-CG	-19.12	67.67	104.00
41	IN	276	ARG	NE-CZ-NH2	18.36	129.48	120.30
22	3Z	245	PRO	CB-CG-CD	-18.15	35.71	106.50
41	DB	324	LYS	CD-CE-NZ	-18.15	69.96	111.70
41	UL	330	MET	CG-SD-CE	-18.04	71.34	100.20
41	UJ	12	CYS	CA-CB-SG	17.03	144.66	114.00
42	MK	274	PRO	N-CD-CG	-16.79	78.01	103.20
42	EC	298	PRO	N-CD-CG	-16.42	78.56	103.20
41	SH	299	MET	CG-SD-CE	-16.17	74.33	100.20
35	6R	441	LEU	CB-CG-CD2	-15.98	83.84	111.00
42	DM	304	LYS	CD-CE-NZ	-15.49	76.08	111.70
41	UJ	164	MET	CG-SD-CE	-15.31	75.71	100.20
19	3J	309	PRO	N-CD-CG	-14.47	81.50	103.20
22	3Z	245	PRO	N-CA-CB	-14.34	86.09	103.30
42	CM	173	PRO	CA-CB-CG	-14.12	77.18	104.00
42	RC	298	PRO	N-CD-CG	-13.96	82.26	103.20
41	SJ	228	LEU	CB-CG-CD2	-13.88	87.40	111.00
41	TF	135	LEU	CB-CG-CD2	-13.42	88.18	111.00
42	JC	47	ASP	CB-CG-OD1	13.06	130.06	118.30
42	PG	262	TYR	N-CA-CB	-12.95	87.29	110.60
42	RC	298	PRO	CA-N-CD	-12.71	93.71	111.50
42	CM	173	PRO	CA-N-CD	-12.45	94.07	111.50
20	3N	12	TRP	CA-CB-CG	12.35	137.16	113.70
22	3Z	245	PRO	CA-N-CD	-12.32	94.26	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	TM	367	ASP	CB-CG-OD2	-12.07	107.44	118.30
41	DD	257	MET	CG-SD-CE	-11.89	81.18	100.20
42	PI	262	TYR	N-CA-CB	-11.86	89.25	110.60
41	BL	281	TYR	CB-CG-CD2	-11.63	114.02	121.00
41	HB	160	PRO	CA-N-CD	-11.54	95.35	111.50
42	TC	261	PRO	CA-CB-CG	-11.53	82.09	104.00
41	IN	270	PHE	N-CA-CB	11.44	131.19	110.60
42	PI	83	TYR	N-CA-CB	-11.26	90.33	110.60
41	SJ	252	LYS	CD-CE-NZ	-11.24	85.84	111.70
7	1U	38	LEU	CA-CB-CG	11.19	141.04	115.30
42	MK	274	PRO	CA-CB-CG	-11.18	82.76	104.00
41	RL	220	PRO	CA-N-CD	-11.13	95.92	111.50
41	KD	69	GLU	CA-CB-CG	11.10	137.83	113.40
42	DE	364	PRO	N-CD-CG	-11.10	86.55	103.20
41	SH	268	PRO	CA-N-CD	-11.06	96.02	111.50
8	2B	164	ARG	NE-CZ-NH1	11.04	125.82	120.30
42	OE	32	PRO	CA-CB-CG	-11.03	83.05	104.00
42	FM	86	LEU	CB-CG-CD2	-10.72	92.77	111.00
8	1Z	115	LYS	CD-CE-NZ	10.64	136.18	111.70
42	PI	279	GLU	CB-CA-C	-10.64	89.11	110.40
41	ML	299	MET	CG-SD-CE	-10.59	83.25	100.20
42	WM	26	LEU	CB-CG-CD2	-10.55	93.06	111.00
42	AC	203	MET	CG-SD-CE	-10.52	83.37	100.20
42	RG	227	LEU	CB-CG-CD1	-10.49	93.16	111.00
41	FH	293	MET	CG-SD-CE	10.46	116.94	100.20
41	VJ	171	PRO	C-N-CA	10.46	147.86	121.70
42	TG	30	ILE	CG1-CB-CG2	-10.44	88.43	111.40
42	EI	346	TRP	CB-CG-CD2	-10.43	113.04	126.60
41	UJ	12	CYS	N-CA-CB	10.32	129.18	110.60
42	CM	219	ILE	CG1-CB-CG2	-10.24	88.88	111.40
42	UI	123	ARG	CB-CG-CD	-10.24	84.98	111.60
42	EC	298	PRO	CA-CB-CG	-10.17	84.68	104.00
8	2B	164	ARG	CG-CD-NE	10.12	133.06	111.80
34	6H	192	LEU	CB-CG-CD2	-10.06	93.90	111.00
19	3J	309	PRO	CA-N-CD	-9.98	97.53	111.50
41	KD	73	MET	CA-CB-CG	9.93	130.18	113.30
41	EJ	357	PRO	N-CD-CG	-9.89	88.36	103.20
41	HF	44	LEU	CA-CB-CG	9.87	138.01	115.30
42	RC	398	MET	CB-CG-SD	-9.85	82.84	112.40
42	UK	227	LEU	CB-CG-CD2	-9.73	94.46	111.00
20	3N	124	LEU	CA-CB-CG	9.72	137.65	115.30
41	JH	122	LYS	CD-CE-NZ	-9.70	89.38	111.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	KD	69	GLU	N-CA-CB	-9.65	93.22	110.60
35	6S	351	LYS	CD-CE-NZ	-9.61	89.59	111.70
42	JC	428	LEU	CB-CG-CD2	-9.58	94.72	111.00
41	DF	357	PRO	CA-N-CD	-9.43	98.30	111.50
41	EJ	391	ARG	CA-CB-CG	9.43	134.14	113.40
41	DL	272	PRO	CA-N-CD	-9.38	98.36	111.50
19	3L	297	MET	CG-SD-CE	-9.35	85.25	100.20
42	RC	298	PRO	CA-CB-CG	-9.35	86.24	104.00
41	UH	215	LEU	CB-CG-CD2	9.26	126.73	111.00
41	KJ	395	LEU	CB-CG-CD2	-9.25	95.27	111.00
42	JG	26	LEU	CB-CG-CD2	-9.22	95.32	111.00
41	AB	151	LEU	CA-CB-CG	9.22	136.50	115.30
41	QD	331	LEU	CB-CG-CD2	-9.20	95.36	111.00
42	KG	248	LEU	CA-CB-CG	9.16	136.38	115.30
41	KD	73	MET	CB-CG-SD	9.13	139.79	112.40
42	AG	269	LEU	CB-CG-CD2	-9.05	95.62	111.00
35	6R	161	ARG	CG-CD-NE	-9.04	92.82	111.80
41	IN	276	ARG	NH1-CZ-NH2	-8.97	109.54	119.40
41	PJ	205	GLU	CB-CA-C	-8.94	92.51	110.40
35	6V	431	MET	CA-CB-CG	8.92	128.47	113.30
41	BB	171	PRO	C-N-CA	8.85	143.83	121.70
42	RG	286	LEU	CA-CB-CG	8.84	135.62	115.30
42	GC	322	ASP	CB-CG-OD2	8.83	126.25	118.30
41	SD	323	MET	CB-CG-SD	-8.81	85.97	112.40
42	TC	261	PRO	CA-N-CD	-8.80	99.19	111.50
2	1E	96	LEU	CB-CG-CD2	8.77	125.91	111.00
41	QD	267	MET	CB-CG-SD	-8.76	86.12	112.40
41	JD	323	MET	CG-SD-CE	-8.73	86.24	100.20
41	FH	257	MET	CG-SD-CE	-8.72	86.25	100.20
41	LL	31	ASP	CB-CG-OD1	8.72	126.15	118.30
35	6R	366	VAL	CB-CA-C	8.70	127.94	111.40
41	KD	209	ASP	CB-CG-OD2	8.69	126.12	118.30
41	OD	287	PRO	CA-N-CD	-8.69	99.33	111.50
42	BG	154	MET	CG-SD-CE	-8.68	86.31	100.20
42	FM	413	MET	CG-SD-CE	8.67	114.08	100.20
42	UK	203	MET	CG-SD-CE	-8.65	86.35	100.20
41	GF	42	LEU	CB-CG-CD2	-8.63	96.33	111.00
41	HF	31	ASP	CB-CG-OD1	8.63	126.06	118.30
19	3J	309	PRO	C-N-CA	8.61	143.23	121.70
41	HH	11	GLN	CB-CA-C	-8.60	93.20	110.40
16	3C	54	MET	CG-SD-CE	-8.56	86.50	100.20
11	2L	83	ASP	CB-CG-OD1	8.54	125.99	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	HF	44	LEU	CB-CG-CD2	-8.50	96.54	111.00
41	NL	177	ASP	CB-CG-OD2	8.50	125.95	118.30
42	JI	377	MET	CG-SD-CE	-8.48	86.63	100.20
41	OL	7	LEU	CB-CG-CD2	8.47	125.40	111.00
42	OE	32	PRO	CA-N-CD	-8.46	99.66	111.50
41	AD	417	ASP	CB-CG-OD2	8.46	125.91	118.30
41	QD	207	LEU	CB-CG-CD2	-8.46	96.62	111.00
41	IN	306	ARG	CB-CA-C	-8.46	93.49	110.40
8	2B	15	TYR	CB-CG-CD2	-8.44	115.93	121.00
41	HH	11	GLN	CB-CG-CD	8.39	133.42	111.60
41	VL	177	ASP	CB-CG-OD2	8.38	125.84	118.30
41	JF	224	ASP	CB-CG-OD1	8.38	125.84	118.30
8	2B	15	TYR	CD1-CG-CD2	8.35	127.09	117.90
41	EF	361	LEU	CA-CB-CG	8.35	134.51	115.30
12	2P	388	ASP	CB-CG-OD2	8.35	125.81	118.30
11	2J	225	ARG	CG-CD-NE	-8.34	94.30	111.80
42	PG	135	PHE	N-CA-CB	-8.31	95.64	110.60
41	QD	304	ASP	CB-CG-OD1	8.31	125.78	118.30
42	LI	2	ARG	CG-CD-NE	-8.31	94.36	111.80
42	VC	306	ASP	CB-CG-OD2	8.30	125.77	118.30
14	2X	239	MET	CG-SD-CE	8.30	113.47	100.20
41	WL	88	ASP	CB-CG-OD2	8.30	125.77	118.30
9	2D	567	TYR	CD1-CG-CD2	8.29	127.02	117.90
11	2M	523	LEU	CB-CG-CD2	-8.24	96.99	111.00
42	SK	89	PRO	CA-N-CD	-8.22	99.98	111.50
42	OA	286	LEU	CB-CG-CD1	8.21	124.96	111.00
2	1D	204	LEU	CB-CG-CD1	-8.21	97.04	111.00
41	TJ	323	MET	CB-CG-SD	-8.20	87.79	112.40
42	BG	306	ASP	CB-CG-OD1	8.19	125.67	118.30
42	OA	286	LEU	CA-CB-CG	8.18	134.10	115.30
42	OK	136	LEU	CB-CG-CD1	-8.17	97.11	111.00
40	7N	440	LYS	CA-CB-CG	8.13	131.30	113.40
41	HB	134	GLN	CA-CB-CG	8.13	131.28	113.40
41	RB	284	LEU	CB-CG-CD2	-8.12	97.19	111.00
41	EH	15	GLN	CA-CB-CG	8.11	131.24	113.40
41	GF	320	ARG	CG-CD-NE	8.06	128.72	111.80
42	DM	181	VAL	CG1-CB-CG2	-8.06	98.00	110.90
42	WC	391	LEU	CB-CG-CD1	-8.06	97.30	111.00
42	VE	345	ASP	CB-CG-OD2	8.05	125.54	118.30
12	2P	384	ASP	CB-CG-OD1	8.04	125.53	118.30
35	6U	418	ILE	CG1-CB-CG2	-8.03	93.74	111.40
41	SH	31	ASP	CB-CG-OD1	8.00	125.50	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	WN	263	LEU	CA-CB-CG	7.99	133.68	115.30
42	TG	338	LYS	CA-CB-CG	7.93	130.84	113.40
9	2D	287	PRO	CA-N-CD	-7.93	100.40	111.50
9	2D	567	TYR	CB-CG-CD1	-7.93	116.24	121.00
42	RE	189	LEU	CB-CG-CD2	7.92	124.47	111.00
21	3T	243	ASP	CB-CG-OD1	-7.89	111.20	118.30
26	4L	80	LEU	CA-CB-CG	7.89	133.44	115.30
42	TG	173	PRO	C-N-CA	7.88	141.40	121.70
41	GF	42	LEU	CB-CG-CD1	7.86	124.36	111.00
42	LI	55	GLU	CA-CB-CG	-7.84	96.14	113.40
19	3K	290	LEU	CB-CG-CD2	7.83	124.32	111.00
41	QB	326	VAL	CA-CB-CG2	-7.82	99.17	110.90
42	AE	123	ARG	CG-CD-NE	-7.80	95.41	111.80
41	EL	225	LEU	CB-CG-CD1	-7.80	97.74	111.00
42	MC	425	MET	CG-SD-CE	-7.80	87.72	100.20
24	4G	316	ASP	CB-CG-OD1	7.80	125.32	118.30
41	DB	130	LEU	CB-CG-CD2	-7.79	97.76	111.00
42	BE	431	ASP	CB-CG-OD1	7.78	125.31	118.30
42	PI	378	LEU	N-CA-CB	-7.78	94.84	110.40
42	BK	46	ASP	CB-CG-OD1	7.78	125.30	118.30
41	TD	323	MET	CG-SD-CE	-7.77	87.77	100.20
42	OE	437	MET	CB-CG-SD	-7.76	89.11	112.40
42	CM	173	PRO	N-CD-CG	-7.76	91.56	103.20
42	SK	428	LEU	CB-CG-CD2	-7.75	97.83	111.00
30	5A	116	LEU	CA-CB-CG	7.73	133.09	115.30
42	OK	47	ASP	CB-CG-OD2	7.72	125.25	118.30
41	DD	246	LEU	CB-CG-CD2	7.72	124.12	111.00
27	4P	255	LEU	CA-CB-CG	7.71	133.03	115.30
42	IG	69	ASP	CB-CG-OD2	7.70	125.23	118.30
41	UH	192	LEU	CA-CB-CG	7.69	132.99	115.30
34	6B	254	LEU	CB-CG-CD2	7.69	124.07	111.00
41	QF	266	PHE	CB-CG-CD1	7.69	126.18	120.80
42	FM	110	ILE	CG1-CB-CG2	-7.68	94.51	111.40
33	5X	85	LEU	CB-CG-CD2	-7.67	97.96	111.00
41	IN	270	PHE	CB-CA-C	-7.66	95.07	110.40
41	QD	388	MET	CA-CB-CG	7.66	126.33	113.30
41	EF	324	LYS	CD-CE-NZ	-7.66	94.09	111.70
11	2J	84	MET	CB-CG-SD	7.65	135.36	112.40
42	VI	60	LYS	CD-CE-NZ	-7.64	94.12	111.70
19	3L	309	PRO	N-CD-CG	-7.64	91.75	103.20
19	3L	292	MET	CG-SD-CE	-7.63	87.99	100.20
42	TM	92	LEU	CB-CG-CD1	-7.63	98.03	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	CB	197	ASP	CB-CG-OD1	7.63	125.16	118.30
41	BJ	161	ASP	CB-CG-OD1	7.62	125.16	118.30
42	DI	119	LEU	CB-CG-CD1	-7.62	98.05	111.00
41	OD	47	ILE	CG1-CB-CG2	-7.62	94.64	111.40
11	2M	391	ARG	CB-CG-CD	-7.60	91.84	111.60
41	IL	251	ARG	CG-CD-NE	-7.60	95.84	111.80
41	PH	389	PHE	CB-CA-C	-7.59	95.21	110.40
34	6G	394	LYS	CA-CB-CG	7.59	130.09	113.40
42	LC	154	MET	CB-CG-SD	-7.58	89.66	112.40
41	OF	395	LEU	CA-CB-CG	7.58	132.73	115.30
41	QF	404	ASP	CB-CG-OD2	7.58	125.12	118.30
42	DE	364	PRO	CA-CB-CG	-7.56	89.64	104.00
42	SG	269	LEU	CB-CG-CD2	7.56	123.84	111.00
41	FH	267	MET	CA-CB-CG	7.55	126.14	113.30
42	JC	311	LYS	CD-CE-NZ	-7.55	94.34	111.70
33	5X	85	LEU	CB-CG-CD1	7.54	123.83	111.00
42	EI	346	TRP	CG-CD1-NE1	-7.54	102.56	110.10
41	SD	346	PRO	CA-N-CD	-7.54	100.95	111.50
12	2P	571	LEU	CA-CB-CG	7.53	132.61	115.30
41	PH	69	GLU	CB-CA-C	-7.52	95.35	110.40
12	2O	191	ASP	CB-CG-OD2	7.52	125.07	118.30
42	TC	261	PRO	N-CA-CB	-7.52	94.28	103.30
42	WM	26	LEU	CB-CG-CD1	7.52	123.78	111.00
41	IN	26	ASP	CB-CG-OD2	7.51	125.06	118.30
42	HE	396	ASP	CB-CG-OD1	7.51	125.06	118.30
42	DE	317	LEU	CA-CB-CG	7.49	132.53	115.30
42	RC	132	LEU	CB-CG-CD2	-7.49	98.27	111.00
20	3N	11	HIS	C-N-CA	7.47	140.37	121.70
41	TL	209	ASP	CB-CG-OD1	7.46	125.02	118.30
41	TD	31	ASP	CB-CG-OD2	7.46	125.02	118.30
41	RB	41	ASP	CB-CG-OD1	7.46	125.01	118.30
42	DE	392	ASP	CB-CG-OD1	-7.45	111.59	118.30
8	1Z	35	LYS	CD-CE-NZ	7.44	128.82	111.70
42	QE	286	LEU	CA-CB-CG	7.44	132.41	115.30
42	DE	269	LEU	CA-CB-CG	7.44	132.40	115.30
42	RC	297	GLU	C-N-CD	7.43	144.00	128.40
42	CK	326	LYS	CD-CE-NZ	-7.42	94.64	111.70
41	JJ	249	ASP	CB-CG-OD2	7.42	124.98	118.30
42	RC	298	PRO	N-CA-CB	-7.41	94.41	103.30
42	RK	188	ILE	CG1-CB-CG2	-7.40	95.11	111.40
19	3L	489	ASP	CB-CG-OD1	7.39	124.95	118.30
42	UK	205	ASP	CB-CG-OD1	7.39	124.95	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	OE	205	ASP	CB-CG-OD2	-7.38	111.66	118.30
41	CB	257	MET	CG-SD-CE	-7.37	88.41	100.20
41	VF	225	LEU	CB-CG-CD2	-7.36	98.48	111.00
42	LK	345	ASP	CB-CG-OD1	7.36	124.92	118.30
34	6H	234	LYS	CB-CA-C	-7.35	95.70	110.40
42	OI	311	LYS	CD-CE-NZ	-7.34	94.81	111.70
26	4K	242	LEU	CB-CG-CD1	-7.33	98.54	111.00
42	PI	149	PHE	CB-CA-C	-7.33	95.74	110.40
42	GG	69	ASP	CB-CG-OD2	7.32	124.89	118.30
41	PH	31	ASP	CB-CA-C	-7.30	95.79	110.40
42	EK	202	PHE	N-CA-CB	-7.30	97.46	110.60
27	4Q	255	LEU	CA-CB-CG	7.29	132.06	115.30
41	TL	291	GLN	CA-CB-CG	-7.28	97.38	113.40
41	DF	161	ASP	CB-CG-OD2	7.26	124.84	118.30
27	4T	255	LEU	CA-CB-CG	7.26	131.99	115.30
9	2D	567	TYR	CB-CG-CD2	-7.25	116.65	121.00
8	1Z	115	LYS	CG-CD-CE	-7.24	90.17	111.90
42	KI	205	ASP	CB-CG-OD2	7.24	124.81	118.30
41	BL	281	TYR	CD1-CG-CD2	7.23	125.85	117.90
42	TE	308	ARG	CA-CB-CG	7.23	129.30	113.40
9	2D	509	LEU	CB-CG-CD1	-7.22	98.73	111.00
42	PG	87	PHE	CB-CA-C	7.22	124.84	110.40
41	JD	39	ASP	CB-CG-OD2	7.21	124.79	118.30
42	WG	413	MET	CG-SD-CE	-7.21	88.66	100.20
11	2L	82	ARG	C-N-CA	7.20	139.69	121.70
35	6Q	257	TRP	CA-CB-CG	-7.19	100.04	113.70
41	LJ	249	ASP	CB-CG-OD2	7.19	124.77	118.30
41	WD	224	ASP	CB-CG-OD2	7.19	124.77	118.30
41	EL	177	ASP	CB-CG-OD2	-7.18	111.84	118.30
21	3T	66	LEU	CB-CG-CD2	-7.16	98.82	111.00
12	2Q	571	LEU	CA-CB-CG	7.16	131.77	115.30
42	QE	242	LEU	CA-CB-CG	7.16	131.76	115.30
42	GG	245	ASP	CB-CG-OD2	7.14	124.73	118.30
26	4K	262	LEU	CB-CG-CD1	-7.14	98.87	111.00
41	TH	263	LEU	CB-CG-CD2	-7.14	98.87	111.00
41	OF	161	ASP	CB-CG-OD1	7.13	124.72	118.30
42	SM	117	LEU	CA-CB-CG	7.13	131.70	115.30
27	4Q	134	MET	CB-CG-SD	-7.13	91.01	112.40
12	2P	137	ASP	CB-CG-OD2	7.13	124.72	118.30
35	6W	237	ASP	CB-CG-OD1	7.13	124.71	118.30
42	CM	172	TYR	C-N-CD	7.11	143.34	128.40
11	2L	226	LEU	CA-CB-CG	7.11	131.65	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	SJ	321	MET	CG-SD-CE	-7.10	88.84	100.20
41	PH	370	ASN	CB-CA-C	-7.09	96.21	110.40
42	QG	227	LEU	CB-CG-CD1	-7.09	98.94	111.00
42	LK	245	ASP	CB-CG-OD1	7.09	124.68	118.30
35	6P	237	ASP	CB-CG-OD1	7.08	124.68	118.30
41	NL	233	MET	CG-SD-CE	-7.07	88.89	100.20
41	UH	41	ASP	CB-CG-OD1	7.07	124.66	118.30
41	HH	11	GLN	CG-CD-NE2	-7.06	99.75	116.70
42	PG	358	GLN	CB-CA-C	-7.06	96.28	110.40
14	2W	78	LEU	CA-CB-CG	7.06	131.53	115.30
42	RI	401	LYS	CD-CE-NZ	-7.02	95.56	111.70
42	JC	377	MET	CG-SD-CE	-7.01	88.98	100.20
11	2M	499	ARG	CB-CG-CD	7.01	129.83	111.60
41	NJ	73	MET	CG-SD-CE	-7.01	88.99	100.20
41	PH	50	TYR	CA-CB-CG	7.00	126.69	113.40
41	IN	276	ARG	CG-CD-NE	6.99	126.49	111.80
42	RK	205	ASP	CB-CG-OD1	6.99	124.59	118.30
41	BB	249	ASP	CB-CG-OD2	6.99	124.59	118.30
41	GF	304	ASP	CB-CG-OD2	6.98	124.58	118.30
41	FF	305	PRO	CA-N-CD	-6.98	101.73	111.50
12	2O	555	ASP	CB-CG-OD1	6.97	124.58	118.30
8	2B	15	TYR	CB-CG-CD1	-6.97	116.82	121.00
41	EJ	225	LEU	CA-CB-CG	6.95	131.29	115.30
42	OI	152	LEU	CB-CG-CD2	6.95	122.82	111.00
41	OF	207	LEU	CB-CG-CD2	6.94	122.80	111.00
41	CH	150	LEU	CA-CB-CG	6.94	131.26	115.30
19	3J	309	PRO	CA-CB-CG	-6.93	90.83	104.00
41	RB	7	LEU	CA-CB-CG	6.93	131.24	115.30
42	DC	157	LEU	CB-CG-CD1	6.92	122.77	111.00
41	DL	30	ILE	C-N-CA	6.92	139.01	121.70
41	PH	251	ARG	CB-CA-C	-6.92	96.55	110.40
42	GE	401	LYS	CD-CE-NZ	-6.92	95.80	111.70
41	JF	41	ASP	CB-CG-OD2	6.91	124.52	118.30
41	DL	41	ASP	CB-CG-OD2	6.90	124.51	118.30
41	PH	266	PHE	CB-CA-C	-6.90	96.59	110.40
41	VD	321	MET	CG-SD-CE	-6.90	89.16	100.20
41	MJ	304	ASP	CB-CG-OD2	6.90	124.51	118.30
42	VG	211	ASP	CB-CG-OD2	6.89	124.50	118.30
42	QG	91	GLN	CA-CB-CG	6.89	128.56	113.40
20	3O	124	LEU	CA-CB-CG	6.89	131.14	115.30
22	3Z	31	MET	CA-CB-CG	6.88	124.99	113.30
42	CK	259	LEU	CB-CG-CD2	-6.88	99.31	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	NL	164	MET	CG-SD-CE	-6.87	89.21	100.20
42	QE	398	MET	CG-SD-CE	-6.86	89.23	100.20
42	WM	199	ASP	CB-CG-OD2	6.86	124.47	118.30
42	DC	424	ASP	CB-CG-OD1	6.85	124.46	118.30
42	PI	71	GLU	CB-CA-C	-6.84	96.71	110.40
42	KE	33	ASP	CB-CG-OD1	6.84	124.46	118.30
42	EC	171	ILE	C-N-CA	6.83	138.79	121.70
41	IN	276	ARG	CB-CA-C	-6.83	96.74	110.40
41	VF	225	LEU	CB-CG-CD1	6.83	122.61	111.00
41	MJ	417	ASP	CB-CG-OD1	6.82	124.44	118.30
13	2S	232	LEU	CA-CB-CG	6.81	130.97	115.30
42	PI	311	LYS	CB-CA-C	-6.81	96.78	110.40
42	JG	127	ASP	CB-CG-OD1	6.80	124.42	118.30
41	JJ	1	MET	CG-SD-CE	-6.80	89.32	100.20
41	KD	209	ASP	CB-CG-OD1	-6.79	112.18	118.30
41	QF	263	LEU	CA-CB-CG	6.79	130.93	115.30
41	WD	88	ASP	CB-CG-OD2	6.79	124.41	118.30
41	SH	135	LEU	CB-CG-CD2	6.78	122.53	111.00
27	4S	255	LEU	CA-CB-CG	6.78	130.89	115.30
41	VD	130	LEU	CA-CB-CG	6.78	130.89	115.30
25	4J	37	MET	CG-SD-CE	-6.77	89.37	100.20
41	UJ	12	CYS	CB-CA-C	-6.77	96.86	110.40
42	WK	33	ASP	CB-CG-OD1	6.76	124.38	118.30
11	2J	84	MET	CG-SD-CE	-6.76	89.39	100.20
42	GI	120	ASP	CB-CG-OD2	6.76	124.38	118.30
42	OA	209	ILE	CG1-CB-CG2	-6.76	96.54	111.40
42	OA	217	LEU	CA-CB-CG	6.76	130.84	115.30
41	GF	7	LEU	CA-CB-CG	6.75	130.82	115.30
41	CB	24	ILE	CA-CB-CG1	-6.74	98.19	111.00
41	DF	187	LEU	CB-CG-CD2	-6.74	99.54	111.00
42	DC	120	ASP	CB-CG-OD2	6.74	124.36	118.30
42	FI	230	LEU	CB-CG-CD1	-6.74	99.55	111.00
41	FJ	293	MET	CA-CB-CG	6.72	124.72	113.30
33	5X	397	LEU	CA-CB-CG	6.71	130.74	115.30
42	CM	166	LYS	CD-CE-NZ	-6.71	96.27	111.70
42	QC	268	PRO	CA-N-CD	-6.69	102.13	111.50
41	QF	266	PHE	CB-CG-CD2	-6.69	116.12	120.80
41	JJ	395	LEU	CB-CG-CD2	-6.68	99.64	111.00
42	TG	205	ASP	CB-CG-OD1	6.68	124.31	118.30
42	PG	284	GLU	CB-CA-C	-6.68	97.05	110.40
42	PI	149	PHE	N-CA-CB	6.67	122.61	110.60
22	3Z	244	VAL	C-N-CD	6.67	142.41	128.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	TL	42	LEU	CA-CB-CG	6.67	130.64	115.30
41	PH	50	TYR	N-CA-CB	6.66	122.59	110.60
41	CH	182	PRO	CA-N-CD	-6.66	102.17	111.50
42	VG	75	ILE	CG1-CB-CG2	-6.66	96.74	111.40
41	TL	374	ILE	CG1-CB-CG2	-6.65	96.76	111.40
34	6B	392	PHE	N-CA-CB	-6.64	98.64	110.60
41	HL	295	ASP	CB-CG-OD1	6.63	124.27	118.30
41	JH	26	ASP	CB-CG-OD1	6.63	124.26	118.30
42	TE	203	MET	CB-CG-SD	-6.63	92.52	112.40
41	ID	197	ASP	CB-CG-OD2	6.62	124.26	118.30
41	UL	58	LYS	CD-CE-NZ	-6.62	96.47	111.70
41	IJ	295	ASP	CB-CG-OD2	6.62	124.25	118.30
42	KG	345	ASP	CB-CG-OD1	6.62	124.25	118.30
42	IK	119	LEU	CB-CG-CD2	-6.61	99.76	111.00
42	CE	152	LEU	CB-CG-CD2	6.61	122.23	111.00
33	5X	340	ASP	CB-CG-OD1	6.61	124.25	118.30
42	FE	306	ASP	CB-CG-OD1	-6.60	112.36	118.30
19	3L	167	ASP	CB-CG-OD2	6.60	124.24	118.30
42	MK	33	ASP	CB-CG-OD1	6.60	124.24	118.30
41	QB	7	LEU	CA-CB-CG	6.60	130.48	115.30
41	CB	88	ASP	CB-CG-OD1	6.60	124.24	118.30
42	EI	346	TRP	CG-CD2-CE3	-6.59	127.97	133.90
41	RH	135	LEU	CA-CB-CG	6.58	130.44	115.30
42	SM	60	LYS	CB-CG-CD	-6.58	94.50	111.60
41	IN	39	ASP	CB-CG-OD2	6.55	124.20	118.30
41	ML	355	ASP	CB-CG-OD1	6.54	124.19	118.30
42	UG	326	LYS	CD-CE-NZ	-6.54	96.66	111.70
41	CH	61	PRO	CA-N-CD	-6.54	102.34	111.50
41	PH	341	PHE	CB-CA-C	6.54	123.48	110.40
42	KI	245	ASP	CB-CG-OD1	6.53	124.18	118.30
42	VE	69	ASP	CB-CG-OD1	6.53	124.18	118.30
41	BL	281	TYR	CA-CB-CG	6.51	125.77	113.40
42	JE	275	VAL	CG1-CB-CG2	-6.51	100.49	110.90
41	RL	39	ASP	CB-CG-OD2	6.50	124.15	118.30
41	UD	379	LYS	CD-CE-NZ	-6.50	96.75	111.70
42	TI	221	ARG	CA-CB-CG	6.50	127.70	113.40
42	FG	364	PRO	N-CD-CG	-6.50	93.45	103.20
42	SM	98	ASP	CB-CG-OD2	6.50	124.15	118.30
31	5G	126	LEU	CA-CB-CG	6.49	130.22	115.30
41	EF	187	LEU	CA-CB-CG	6.49	130.22	115.30
42	EI	346	TRP	CD1-NE1-CE2	6.49	114.84	109.00
16	3C	204	ASP	CB-CG-OD1	6.49	124.14	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	AB	321	MET	CG-SD-CE	-6.49	89.82	100.20
41	IH	41	ASP	CB-CG-OD2	6.49	124.14	118.30
42	VI	326	LYS	CD-CE-NZ	6.47	126.59	111.70
41	VJ	327	ASP	CB-CG-OD1	-6.47	112.48	118.30
41	IL	135	LEU	CA-CB-CG	6.47	130.18	115.30
12	2Q	159	LEU	C-N-CA	6.47	137.87	121.70
42	OA	70	LEU	CA-CB-CG	6.46	130.17	115.30
34	6B	323	ASP	CB-CG-OD1	-6.46	112.48	118.30
42	PG	378	LEU	N-CA-CB	-6.46	97.48	110.40
41	FJ	403	MET	CG-SD-CE	6.45	110.52	100.20
41	FJ	257	MET	CG-SD-CE	-6.44	89.89	100.20
34	6H	81	LEU	CA-CB-CG	6.44	130.11	115.30
42	MK	39	ASP	CB-CG-OD1	6.44	124.09	118.30
42	MC	438	ASP	CB-CG-OD2	6.44	124.09	118.30
41	FF	150	LEU	CB-CG-CD2	-6.42	100.08	111.00
35	6V	410	MET	CG-SD-CE	-6.42	89.93	100.20
42	CE	345	ASP	CB-CG-OD1	6.41	124.07	118.30
42	UK	322	ASP	CB-CG-OD1	6.41	124.07	118.30
8	1Z	118	ILE	CG1-CB-CG2	-6.40	97.32	111.40
34	6G	393	LEU	CB-CG-CD2	6.40	121.88	111.00
42	RG	391	LEU	CA-CB-CG	6.40	130.02	115.30
42	JE	224	TYR	CZ-CE2-CD2	6.39	125.55	119.80
20	3N	12	TRP	CB-CA-C	-6.39	97.62	110.40
41	SH	268	PRO	N-CD-CG	-6.39	93.62	103.20
41	UJ	11	GLN	C-N-CA	-6.38	105.75	121.70
41	JF	304	ASP	CB-CG-OD2	6.38	124.04	118.30
41	HB	139	LEU	CA-CB-CG	6.37	129.95	115.30
42	BG	154	MET	CB-CG-SD	-6.36	93.33	112.40
42	DI	224	TYR	CB-CG-CD2	-6.35	117.19	121.00
42	VI	261	PRO	CA-N-CD	-6.34	102.62	111.50
41	CH	403	MET	CG-SD-CE	-6.34	90.06	100.20
41	PH	350	LYS	N-CA-CB	-6.34	99.19	110.60
41	DD	311	LEU	CA-CB-CG	6.34	129.87	115.30
42	GK	269	LEU	CA-CB-CG	6.34	129.88	115.30
41	BJ	42	LEU	CA-CB-CG	6.33	129.87	115.30
41	TD	299	MET	CA-CB-CG	-6.33	102.53	113.30
42	CE	413	MET	CG-SD-CE	-6.33	90.07	100.20
41	NL	403	MET	CG-SD-CE	-6.33	90.07	100.20
41	LL	251	ARG	CG-CD-NE	-6.32	98.52	111.80
2	1E	191	LEU	CB-CG-CD2	6.31	121.73	111.00
42	UI	195	LEU	CB-CG-CD1	-6.29	100.30	111.00
35	6Q	214	ASP	CB-CG-OD2	-6.29	112.64	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	5M	48	ILE	CG1-CB-CG2	6.28	125.22	111.40
42	PG	24	TYR	N-CA-CB	6.28	121.90	110.60
42	MK	219	ILE	CG1-CB-CG2	-6.27	97.60	111.40
41	UD	67	ASP	CB-CG-OD2	6.27	123.94	118.30
41	OD	210	ILE	CG1-CB-CG2	-6.26	97.62	111.40
41	QD	171	PRO	CA-N-CD	-6.26	102.73	111.50
41	RB	249	ASP	CB-CG-OD2	6.25	123.93	118.30
42	SG	425	MET	CG-SD-CE	-6.25	90.20	100.20
12	2O	176	MET	CG-SD-CE	-6.25	90.21	100.20
34	6H	254	LEU	CA-CB-CG	-6.24	100.95	115.30
42	LM	326	LYS	CG-CD-CE	-6.23	93.20	111.90
42	CK	177	VAL	CG1-CB-CG2	-6.23	100.93	110.90
42	MK	217	LEU	CA-CB-CG	6.22	129.61	115.30
12	2O	571	LEU	CA-CB-CG	6.22	129.61	115.30
12	2P	555	ASP	CB-CG-OD1	6.22	123.90	118.30
41	OF	299	MET	CG-SD-CE	-6.22	90.25	100.20
42	UM	73	THR	C-N-CA	6.22	137.25	121.70
34	6H	254	LEU	CB-CG-CD1	-6.21	100.45	111.00
41	TL	240	LEU	CA-CB-CG	6.20	129.55	115.30
33	5W	186	ASP	CB-CG-OD2	6.19	123.87	118.30
42	JG	89	PRO	CA-N-CD	-6.18	102.85	111.50
41	NL	233	MET	CA-CB-CG	-6.18	102.79	113.30
42	TM	367	ASP	CB-CG-OD1	6.18	123.86	118.30
41	KJ	41	ASP	CB-CG-OD1	6.18	123.86	118.30
42	MK	217	LEU	CB-CG-CD2	6.18	121.50	111.00
20	3P	20	MET	CG-SD-CE	6.17	110.08	100.20
41	CL	39	ASP	CB-CG-OD2	6.17	123.85	118.30
41	HL	224	ASP	CB-CG-OD2	6.17	123.85	118.30
42	IC	33	ASP	CB-CG-OD1	6.17	123.85	118.30
11	2M	499	ARG	CA-CB-CG	6.16	126.96	113.40
42	SC	377	MET	CG-SD-CE	-6.16	90.34	100.20
41	TH	324	LYS	CD-CE-NZ	-6.16	97.53	111.70
41	WD	253	LEU	CA-CB-CG	6.16	129.46	115.30
20	3O	647	LEU	CB-CG-CD1	-6.15	100.54	111.00
33	5V	85	LEU	CA-CB-CG	6.15	129.45	115.30
42	WG	431	ASP	CB-CG-OD1	6.15	123.83	118.30
20	3N	111	LEU	CA-CB-CG	6.14	129.43	115.30
42	NE	98	ASP	CB-CG-OD1	6.14	123.83	118.30
42	GK	269	LEU	CB-CG-CD2	-6.14	100.57	111.00
42	HM	101	ASN	CB-CG-ND2	-6.13	101.98	116.70
42	FM	275	VAL	CG1-CB-CG2	-6.13	101.10	110.90
42	RG	398	MET	CB-CG-SD	-6.13	94.02	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	2Y	116	LEU	CA-CB-CG	6.12	129.38	115.30
42	EM	224	TYR	N-CA-CB	-6.12	99.58	110.60
41	TF	135	LEU	CA-CB-CG	6.12	129.37	115.30
42	MI	322	ASP	CB-CG-OD2	6.12	123.80	118.30
42	QE	188	ILE	CG1-CB-CG2	-6.12	97.95	111.40
34	6J	46	LEU	CA-CB-CG	6.11	129.36	115.30
42	BK	248	LEU	CA-CB-CG	6.11	129.35	115.30
42	PI	213	CYS	CB-CA-C	-6.11	98.18	110.40
41	PJ	77	ARG	CB-CA-C	-6.11	98.18	110.40
42	OE	437	MET	CG-SD-CE	6.11	109.97	100.20
41	EH	259	PRO	C-N-CA	6.10	136.96	121.70
41	OF	300	MET	CG-SD-CE	-6.10	90.43	100.20
19	3L	309	PRO	CA-N-CD	-6.10	102.95	111.50
42	FG	413	MET	CG-SD-CE	6.10	109.96	100.20
41	HF	114	ASP	CB-CG-OD1	6.10	123.79	118.30
42	PG	24	TYR	CB-CA-C	-6.10	98.21	110.40
41	EJ	281	TYR	N-CA-C	6.09	127.45	111.00
42	LE	370	LYS	CD-CE-NZ	-6.09	97.68	111.70
42	PI	85	GLN	CB-CA-C	6.09	122.59	110.40
41	SD	263	LEU	CA-CB-CG	6.09	129.32	115.30
42	TG	167	LEU	CB-CG-CD1	-6.09	100.65	111.00
42	CE	221	ARG	CA-CB-CG	6.09	126.79	113.40
42	EI	46	ASP	CB-CG-OD1	6.09	123.78	118.30
42	DM	338	LYS	CA-CB-CG	6.08	126.77	113.40
41	SJ	225	LEU	CB-CG-CD1	6.08	121.33	111.00
41	HL	26	ASP	CB-CG-OD1	6.07	123.76	118.30
42	QG	132	LEU	CB-CG-CD2	6.07	121.32	111.00
42	HE	177	VAL	CG1-CB-CG2	6.06	120.60	110.90
41	TF	257	MET	CG-SD-CE	-6.06	90.50	100.20
41	JD	368	ILE	CG1-CB-CG2	6.06	124.72	111.40
34	6M	164	LEU	CB-CG-CD2	-6.05	100.72	111.00
41	SD	357	PRO	CA-N-CD	-6.05	103.03	111.50
11	2M	500	ARG	NE-CZ-NH2	-6.05	117.28	120.30
41	LN	42	LEU	CA-CB-CG	6.04	129.20	115.30
8	2B	164	ARG	NH1-CZ-NH2	-6.04	112.75	119.40
42	IM	189	LEU	CB-CG-CD1	6.04	121.27	111.00
42	CK	195	LEU	CB-CG-CD2	-6.04	100.73	111.00
34	6F	237	LEU	CA-CB-CG	6.03	129.18	115.30
42	JG	221	ARG	CA-CB-CG	6.03	126.67	113.40
9	2D	550	MET	CA-CB-CG	6.03	123.55	113.30
42	DI	110	ILE	CG1-CB-CG2	-6.03	98.13	111.40
41	KD	404	ASP	CB-CG-OD1	6.03	123.73	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	TM	189	LEU	CB-CG-CD2	-6.03	100.75	111.00
41	NL	74	ASP	CB-CG-OD1	6.03	123.72	118.30
33	5R	137	LEU	CB-CG-CD2	6.02	121.24	111.00
41	UJ	257	MET	CG-SD-CE	-6.02	90.57	100.20
20	3O	263	LEU	CA-CB-CG	6.02	129.14	115.30
41	TH	377	LEU	CB-CG-CD1	6.01	121.22	111.00
42	HE	122	ILE	CG1-CB-CG2	-6.01	98.18	111.40
14	2Y	87	LEU	CB-CG-CD2	-6.00	100.79	111.00
32	5N	389	LEU	CA-CB-CG	6.00	129.11	115.30
19	3K	447	ASP	CB-CG-OD1	6.00	123.70	118.30
14	2X	87	LEU	CA-CB-CG	5.99	129.07	115.30
41	EJ	391	ARG	CB-CG-CD	5.99	127.17	111.60
42	BG	377	MET	CA-CB-CG	5.99	123.48	113.30
39	7L	25	LEU	CA-CB-CG	5.98	129.06	115.30
34	6G	393	LEU	CA-CB-CG	5.98	129.05	115.30
42	UK	248	LEU	CB-CG-CD1	-5.97	100.84	111.00
41	TD	209	ASP	CB-CG-OD2	5.97	123.67	118.30
42	WG	322	ASP	CB-CG-OD1	5.97	123.67	118.30
41	PJ	212	PHE	CB-CA-C	-5.96	98.47	110.40
41	WJ	249	ASP	CB-CG-OD1	5.96	123.66	118.30
42	UI	269	LEU	CA-CB-CG	5.96	129.00	115.30
41	VD	118	ASP	CB-CG-OD1	5.95	123.66	118.30
41	FF	207	LEU	CA-CB-CG	5.95	128.99	115.30
42	FG	132	LEU	CA-CB-CG	5.95	128.99	115.30
11	2K	339	MET	CB-CG-SD	5.95	130.25	112.40
42	WM	384	ILE	CG1-CB-CG2	-5.95	98.31	111.40
42	IG	124	LYS	CD-CE-NZ	-5.95	98.03	111.70
41	DB	130	LEU	CA-CB-CG	5.94	128.97	115.30
42	TC	114	LEU	CA-CB-CG	5.94	128.97	115.30
41	UJ	415	MET	CA-CB-CG	5.94	123.40	113.30
42	FG	245	ASP	CB-CG-OD1	5.94	123.64	118.30
41	JF	130	LEU	CB-CG-CD1	5.93	121.09	111.00
41	KD	246	LEU	CA-CB-CG	5.93	128.94	115.30
41	VF	267	MET	CG-SD-CE	5.93	109.69	100.20
42	HE	397	LEU	CA-CB-CG	5.93	128.94	115.30
42	TE	231	ILE	CG1-CB-CG2	-5.93	98.36	111.40
42	TG	438	ASP	CB-CG-OD1	5.93	123.63	118.30
41	TJ	289	LEU	CA-CB-CG	5.91	128.90	115.30
42	MM	182	VAL	CG1-CB-CG2	5.91	120.36	110.90
41	TL	377	LEU	CA-CB-CG	5.91	128.89	115.30
42	KG	160	ASP	CB-CG-OD1	5.91	123.62	118.30
42	TM	36	MET	CG-SD-CE	-5.91	90.75	100.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	1K	124	LEU	CB-CG-CD2	-5.90	100.97	111.00
41	RL	135	LEU	CA-CB-CG	5.90	128.87	115.30
42	CM	154	MET	N-CA-CB	5.90	121.22	110.60
42	FG	132	LEU	CB-CG-CD2	5.90	121.03	111.00
41	GL	7	LEU	CA-CB-CG	5.90	128.86	115.30
41	OF	225	LEU	CB-CG-CD1	5.90	121.02	111.00
41	PH	385	PHE	CB-CA-C	-5.89	98.61	110.40
41	UD	180	VAL	CA-CB-CG1	5.89	119.74	110.90
26	4K	262	LEU	CA-CB-CG	5.89	128.85	115.30
41	UH	362	LYS	CD-CE-NZ	-5.89	98.15	111.70
42	RC	248	LEU	CA-CB-CG	5.89	128.84	115.30
41	NL	164	MET	CA-CB-CG	5.89	123.31	113.30
19	3K	338	LEU	CA-CB-CG	5.88	128.83	115.30
41	OL	203	ASP	CB-CG-OD1	5.88	123.59	118.30
15	3A	153	LEU	CA-CB-CG	5.88	128.82	115.30
41	TH	418	LEU	CA-CB-CG	5.87	128.81	115.30
41	SD	323	MET	CA-CB-CG	5.87	123.28	113.30
41	TJ	304	ASP	CB-CG-OD1	-5.87	113.02	118.30
42	IM	286	LEU	CB-CG-CD2	-5.87	101.02	111.00
42	SG	109	THR	OG1-CB-CG2	-5.87	96.50	110.00
41	TD	289	LEU	CB-CG-CD1	-5.87	101.03	111.00
41	SH	84	ILE	CG1-CB-CG2	-5.87	98.50	111.40
42	BC	154	MET	CB-CG-SD	-5.86	94.81	112.40
41	CB	50	TYR	CZ-CE2-CD2	5.86	125.08	119.80
41	UJ	152	ILE	CG1-CB-CG2	5.86	124.28	111.40
34	6G	123	ASP	CB-CG-OD2	5.85	123.57	118.30
41	QB	380	ARG	CG-CD-NE	5.85	124.09	111.80
42	IK	171	ILE	C-N-CA	5.85	136.33	121.70
33	5X	272	MET	CA-CB-CG	5.85	123.25	113.30
25	4I	330	ASP	CB-CG-OD1	5.85	123.56	118.30
42	KK	189	LEU	CB-CG-CD1	5.85	120.94	111.00
41	QD	263	LEU	CA-CB-CG	5.85	128.75	115.30
42	UM	269	LEU	CB-CG-CD1	5.85	120.94	111.00
42	RI	259	LEU	CB-CG-CD2	5.84	120.93	111.00
41	EL	31	ASP	CB-CG-OD2	5.84	123.56	118.30
42	HK	302	MET	CG-SD-CE	5.84	109.54	100.20
26	4L	209	LEU	CA-CB-CG	5.83	128.72	115.30
41	JF	44	LEU	CB-CG-CD1	-5.83	101.08	111.00
42	MK	274	PRO	N-CA-CB	-5.83	96.18	102.60
33	5W	366	LEU	CA-CB-CG	5.83	128.72	115.30
34	6H	234	LYS	CB-CG-CD	-5.83	96.44	111.60
41	DF	267	MET	CA-CB-CG	5.83	123.22	113.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	UD	36	TYR	CB-CG-CD2	-5.83	117.50	121.00
41	HH	12	CYS	CA-CB-SG	-5.83	103.50	114.00
41	VJ	210	ILE	CG1-CB-CG2	-5.83	98.57	111.40
41	HB	181	GLU	OE1-CD-OE2	-5.83	116.30	123.30
5	1N	27	PRO	CA-N-CD	-5.82	103.35	111.50
34	6G	429	ASP	CB-CG-OD1	5.82	123.54	118.30
41	UD	323	MET	CB-CG-SD	-5.82	94.93	112.40
34	6H	210	LEU	CA-CB-CG	5.82	128.69	115.30
41	EJ	263	LEU	CA-CB-CG	5.82	128.69	115.30
8	2A	11	LEU	CA-CB-CG	5.81	128.67	115.30
42	PG	172	TYR	CB-CA-C	-5.81	98.77	110.40
42	MM	110	ILE	CG1-CB-CG2	-5.81	98.62	111.40
41	UL	299	MET	CB-CG-SD	-5.81	94.97	112.40
41	DF	192	LEU	CA-CB-CG	5.81	128.66	115.30
42	JG	398	MET	CA-CB-CG	5.80	123.16	113.30
41	UF	395	LEU	CA-CB-CG	5.80	128.64	115.30
41	EJ	289	LEU	CA-CB-CG	5.79	128.62	115.30
41	JD	257	MET	CG-SD-CE	-5.79	90.94	100.20
4	1K	124	LEU	CB-CG-CD1	5.78	120.83	111.00
41	HB	233	MET	CA-CB-CG	5.78	123.12	113.30
41	QD	86	ARG	CB-CG-CD	5.78	126.62	111.60
41	RB	300	MET	CA-CB-CG	5.78	123.12	113.30
2	1E	222	ARG	CG-CD-NE	5.77	123.92	111.80
41	TL	395	LEU	CA-CB-CG	5.77	128.58	115.30
42	LC	114	LEU	CA-CB-CG	5.77	128.57	115.30
42	RG	92	LEU	CA-CB-CG	5.76	128.56	115.30
41	WJ	321	MET	CG-SD-CE	-5.76	90.99	100.20
7	1U	137	ILE	CG1-CB-CG2	-5.76	98.73	111.40
42	AE	123	ARG	CA-CB-CG	5.76	126.06	113.40
41	SD	42	LEU	CA-CB-CG	5.75	128.53	115.30
42	QE	86	LEU	CB-CG-CD1	-5.75	101.22	111.00
5	1N	42	ILE	CG1-CB-CG2	-5.75	98.75	111.40
42	SG	275	VAL	CG1-CB-CG2	-5.75	101.70	110.90
41	GH	273	LEU	CA-CB-CG	5.75	128.52	115.30
26	4M	79	LEU	CB-CG-CD2	-5.74	101.24	111.00
3	1I	159	MET	CA-CB-CG	5.74	123.06	113.30
41	CL	259	PRO	C-N-CA	5.74	136.05	121.70
42	OK	370	LYS	CA-CB-CG	5.74	126.02	113.40
42	WK	259	LEU	CA-CB-CG	5.73	128.49	115.30
41	WJ	114	ASP	CB-CG-OD2	5.73	123.46	118.30
41	WL	324	LYS	CG-CD-CE	-5.73	94.70	111.90
41	IN	205	GLU	CB-CA-C	-5.72	98.95	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	5X	345	LEU	CB-CG-CD1	-5.72	101.28	111.00
20	3N	12	TRP	N-CA-CB	5.72	120.89	110.60
41	EH	15	GLN	CB-CA-C	-5.72	98.96	110.40
42	RK	189	LEU	CA-CB-CG	5.72	128.46	115.30
41	IJ	74	ASP	CB-CG-OD2	5.72	123.44	118.30
20	3P	420	LEU	CB-CG-CD2	-5.71	101.29	111.00
41	TD	267	MET	CB-CG-SD	-5.71	95.27	112.40
41	EH	31	ASP	N-CA-C	-5.71	95.59	111.00
42	PG	98	ASP	CB-CA-C	-5.71	98.99	110.40
42	WG	217	LEU	CA-CB-CG	5.71	128.43	115.30
15	3A	81	LEU	CB-CG-CD2	-5.70	101.30	111.00
42	PG	210	TYR	N-CA-CB	5.70	120.86	110.60
33	5S	397	LEU	CB-CG-CD2	5.70	120.69	111.00
35	6T	423	LEU	CA-CB-CG	5.70	128.40	115.30
35	6R	350	LEU	CA-CB-CG	5.69	128.39	115.30
41	TD	250	LEU	CB-CG-CD1	-5.69	101.33	111.00
41	TD	284	LEU	CA-CB-CG	5.69	128.38	115.30
11	2L	117	LEU	CA-CB-CG	5.68	128.37	115.30
42	SG	76	ASP	CB-CG-OD1	5.68	123.41	118.30
41	FF	177	ASP	CB-CG-OD1	5.68	123.41	118.30
41	IJ	325	GLU	CG-CD-OE2	-5.68	106.94	118.30
42	FM	428	LEU	CB-CG-CD2	-5.67	101.36	111.00
42	LI	26	LEU	CB-CG-CD2	-5.67	101.36	111.00
42	VE	168	GLU	CG-CD-OE2	-5.67	106.96	118.30
42	DE	195	LEU	CA-CB-CG	5.67	128.33	115.30
19	3K	34	ARG	CB-CA-C	5.66	121.72	110.40
42	RI	242	LEU	CB-CG-CD1	-5.66	101.38	111.00
42	LM	413	MET	CB-CG-SD	-5.66	95.42	112.40
41	JF	130	LEU	CA-CB-CG	5.66	128.31	115.30
40	7N	440	LYS	N-CA-CB	-5.64	100.44	110.60
42	LG	33	ASP	CB-CG-OD2	5.64	123.38	118.30
41	VF	261	PRO	C-N-CA	5.64	135.81	121.70
33	5V	263	PHE	N-CA-CB	5.64	120.75	110.60
34	6H	167	MET	CG-SD-CE	-5.64	91.18	100.20
41	DL	323	MET	CG-SD-CE	-5.64	91.18	100.20
42	QG	30	ILE	CG1-CB-CG2	5.64	123.80	111.40
41	JJ	225	LEU	CA-CB-CG	5.63	128.25	115.30
42	RI	313	MET	CG-SD-CE	5.63	109.21	100.20
42	EC	189	LEU	CB-CG-CD2	5.63	120.56	111.00
42	TG	132	LEU	CA-CB-CG	5.63	128.24	115.30
41	FJ	114	ASP	CB-CG-OD1	5.62	123.36	118.30
34	6G	356	ASP	CB-CG-OD1	5.62	123.36	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	PG	207	GLU	CB-CA-C	-5.62	99.15	110.40
37	7D	31	LEU	CA-CB-CG	5.62	128.23	115.30
41	IN	310	TYR	N-CA-CB	-5.62	100.48	110.60
41	PJ	151	LEU	CB-CG-CD1	-5.62	101.45	111.00
41	KD	139	LEU	CB-CG-CD1	-5.62	101.45	111.00
41	LJ	31	ASP	CB-CG-OD2	-5.62	113.25	118.30
42	UG	195	LEU	CB-CG-CD2	-5.62	101.45	111.00
33	5X	84	ASP	CB-CG-OD1	5.61	123.35	118.30
42	KI	114	LEU	CB-CG-CD1	-5.61	101.46	111.00
42	TC	260	VAL	C-N-CD	5.61	140.18	128.40
8	2A	136	LEU	CB-CG-CD2	-5.61	101.47	111.00
32	5N	280	LEU	CA-CB-CG	5.61	128.20	115.30
42	DI	218	ASP	CB-CG-OD2	5.61	123.35	118.30
41	RB	112	LEU	CA-CB-CG	5.61	128.19	115.30
42	TG	92	LEU	CA-CB-CG	5.61	128.19	115.30
12	2P	571	LEU	CB-CG-CD2	5.60	120.53	111.00
33	5X	24	LEU	CA-CB-CG	5.60	128.18	115.30
42	QC	269	LEU	CA-CB-CG	5.60	128.18	115.30
41	AB	151	LEU	CB-CG-CD2	5.60	120.52	111.00
41	SJ	395	LEU	CA-CB-CG	5.60	128.17	115.30
42	BC	174	ALA	CB-CA-C	-5.59	101.71	110.10
42	DG	252	LEU	CB-CG-CD1	-5.59	101.49	111.00
41	GF	320	ARG	CA-CB-CG	5.59	125.70	113.40
42	UI	265	ILE	CG1-CB-CG2	-5.59	99.09	111.40
42	UM	157	LEU	CA-CB-CG	5.59	128.16	115.30
41	TD	197	ASP	CB-CG-OD2	5.59	123.33	118.30
41	DF	187	LEU	CB-CG-CD1	5.59	120.50	111.00
41	BJ	273	LEU	CB-CG-CD1	-5.58	101.51	111.00
42	WC	341	ILE	CG1-CB-CG2	-5.58	99.11	111.40
42	KK	189	LEU	CB-CG-CD2	-5.58	101.51	111.00
12	2P	129	LEU	CB-CG-CD2	-5.58	101.51	111.00
41	EJ	357	PRO	CA-CB-CG	-5.57	93.42	104.00
42	DM	212	ILE	CG1-CB-CG2	-5.57	99.15	111.40
11	2J	147	MET	CG-SD-CE	-5.57	91.29	100.20
19	3L	221	ARG	CA-CB-CG	-5.57	101.16	113.40
42	EI	189	LEU	CA-CB-CG	5.56	128.08	115.30
41	TH	135	LEU	CA-CB-CG	5.55	128.07	115.30
41	BL	281	TYR	CZ-CE2-CD2	-5.55	114.81	119.80
11	2K	328	LEU	CA-CB-CG	5.54	128.05	115.30
41	VH	240	LEU	CA-CB-CG	5.54	128.04	115.30
42	FI	378	LEU	CB-CG-CD2	-5.54	101.59	111.00
41	CH	182	PRO	N-CD-CG	-5.54	94.90	103.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	RL	361	LEU	CA-CB-CG	5.54	128.03	115.30
41	EF	135	LEU	CB-CG-CD1	5.53	120.41	111.00
42	LE	205	ASP	CB-CG-OD1	-5.53	113.32	118.30
42	FE	297	GLU	CA-CB-CG	5.53	125.57	113.40
41	UJ	314	ALA	N-CA-CB	5.53	117.84	110.10
41	TL	295	ASP	CB-CG-OD2	5.53	123.28	118.30
41	EL	177	ASP	CB-CG-OD1	5.53	123.28	118.30
41	RL	7	LEU	CB-CG-CD2	5.53	120.40	111.00
42	VM	117	LEU	CB-CG-CD1	5.53	120.39	111.00
42	CK	9	VAL	CG1-CB-CG2	-5.53	102.06	110.90
42	MI	33	ASP	CB-CG-OD1	5.53	123.27	118.30
42	QG	209	ILE	CG1-CB-CG2	-5.52	99.25	111.40
34	6J	57	LYS	CD-CE-NZ	5.52	124.40	111.70
42	UM	322	ASP	CB-CG-OD2	5.52	123.27	118.30
42	EI	346	TRP	CD1-CG-CD2	5.51	110.71	106.30
42	VM	60	LYS	CD-CE-NZ	-5.51	99.02	111.70
35	6Q	189	LEU	CA-CB-CG	5.51	127.98	115.30
41	CH	228	LEU	CB-CG-CD2	-5.50	101.64	111.00
33	5X	397	LEU	CB-CG-CD2	-5.50	101.64	111.00
25	4I	47	LEU	CA-CB-CG	5.50	127.95	115.30
4	1K	143	LEU	CA-CB-CG	5.50	127.95	115.30
9	2D	567	TYR	CZ-CE2-CD2	-5.50	114.85	119.80
41	PH	265	PHE	CB-CA-C	5.50	121.40	110.40
42	JE	438	ASP	CB-CG-OD1	5.50	123.25	118.30
41	AB	41	ASP	CB-CG-OD1	5.50	123.25	118.30
42	KI	33	ASP	CB-CG-OD2	5.49	123.24	118.30
42	LM	265	ILE	CG1-CB-CG2	-5.49	99.31	111.40
42	LI	26	LEU	CB-CG-CD1	5.49	120.34	111.00
42	KK	120	ASP	CB-CG-OD1	5.49	123.24	118.30
41	SJ	1	MET	CG-SD-CE	5.49	108.99	100.20
34	6L	329	LEU	CA-CB-CG	5.49	127.92	115.30
41	FH	130	LEU	CB-CG-CD1	5.49	120.32	111.00
41	HH	286	VAL	CG1-CB-CG2	5.49	119.67	110.90
42	IM	248	LEU	CA-CB-CG	5.49	127.92	115.30
42	JI	373	ARG	CG-CD-NE	-5.49	100.28	111.80
41	RB	293	MET	CB-CG-SD	-5.48	95.95	112.40
42	UI	70	LEU	CA-CB-CG	5.48	127.91	115.30
42	LC	154	MET	CG-SD-CE	-5.48	91.44	100.20
42	SM	318	LEU	CB-CG-CD2	5.48	120.31	111.00
42	OE	152	LEU	CB-CG-CD2	5.47	120.31	111.00
41	RL	321	MET	CG-SD-CE	-5.47	91.44	100.20
41	IN	367	PHE	N-CA-CB	5.47	120.45	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	JJ	177	ASP	CB-CG-OD2	5.47	123.23	118.30
41	EL	324	LYS	CA-CB-CG	5.47	125.43	113.40
41	LN	31	ASP	CB-CG-OD1	5.47	123.22	118.30
41	TL	403	MET	CG-SD-CE	-5.47	91.45	100.20
26	4M	79	LEU	CA-CB-CG	5.46	127.86	115.30
42	CK	160	ASP	CB-CG-OD2	5.46	123.22	118.30
41	EL	65	LEU	CA-CB-CG	5.46	127.86	115.30
41	KL	84	ILE	CG1-CB-CG2	-5.46	99.40	111.40
32	5L	311	LYS	CA-CB-CG	5.45	125.40	113.40
41	OL	130	LEU	CA-CB-CG	5.45	127.84	115.30
41	RB	233	MET	CA-CB-CG	5.45	122.57	113.30
35	6V	5	ASP	CB-CG-OD1	5.44	123.20	118.30
41	PH	59	TYR	N-CA-CB	-5.44	100.81	110.60
42	UG	157	LEU	CA-CB-CG	5.44	127.81	115.30
41	VL	147	MET	CG-SD-CE	-5.43	91.50	100.20
26	4M	141	LEU	CA-CB-CG	5.43	127.79	115.30
41	BL	295	ASP	CB-CG-OD1	5.43	123.19	118.30
41	CB	418	LEU	CA-CB-CG	5.43	127.78	115.30
42	SM	397	LEU	CA-CB-CG	5.42	127.78	115.30
42	JC	47	ASP	CB-CG-OD2	-5.42	113.42	118.30
41	UF	380	ARG	CB-CG-CD	-5.42	97.50	111.60
26	4K	209	LEU	CB-CG-CD2	5.42	120.22	111.00
29	4Y	59	LYS	CA-CB-CG	5.42	125.32	113.40
42	CI	39	ASP	C-N-CA	5.42	135.25	121.70
41	ML	305	PRO	CA-N-CD	-5.42	103.91	111.50
41	WJ	68	LEU	CA-CB-CG	5.42	127.77	115.30
41	UJ	164	MET	CA-CB-CG	-5.42	104.09	113.30
21	3U	16	LEU	CA-CB-CG	5.41	127.75	115.30
42	OC	181	VAL	CG1-CB-CG2	-5.41	102.24	110.90
41	EJ	215	LEU	CA-CB-CG	5.41	127.75	115.30
41	QB	326	VAL	CG1-CB-CG2	-5.41	102.24	110.90
12	2Q	46	LEU	CB-CG-CD2	5.41	120.20	111.00
42	DE	375	VAL	CG1-CB-CG2	-5.41	102.25	110.90
42	IG	33	ASP	CB-CG-OD2	5.41	123.17	118.30
42	MM	326	LYS	CD-CE-NZ	-5.41	99.26	111.70
42	SC	259	LEU	CB-CG-CD2	-5.41	101.81	111.00
42	VC	370	LYS	CD-CE-NZ	-5.41	99.27	111.70
41	SH	164	MET	CG-SD-CE	-5.40	91.56	100.20
42	JC	114	LEU	CA-CB-CG	5.40	127.72	115.30
42	PG	244	PHE	N-CA-CB	-5.40	100.88	110.60
42	PG	371	VAL	N-CA-CB	-5.40	99.63	111.50
12	2Q	392	ILE	CG1-CB-CG2	-5.39	99.53	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	2X	77	SER	C-N-CA	5.39	135.19	121.70
42	BC	397	LEU	CA-CB-CG	5.39	127.71	115.30
41	LJ	39	ASP	CB-CG-OD2	5.39	123.16	118.30
35	6T	423	LEU	CB-CG-CD1	-5.39	101.83	111.00
41	AB	395	LEU	CA-CB-CG	5.39	127.70	115.30
41	BH	304	ASP	CB-CG-OD2	5.39	123.15	118.30
3	1I	163	ASP	CB-CG-OD1	5.39	123.15	118.30
42	OK	33	ASP	CB-CG-OD1	5.39	123.15	118.30
42	EI	377	MET	CA-CB-CG	5.38	122.44	113.30
42	QE	269	LEU	CA-CB-CG	5.38	127.66	115.30
41	LJ	323	MET	CG-SD-CE	5.37	108.80	100.20
41	ML	299	MET	CA-CB-CG	-5.37	104.17	113.30
42	VM	242	LEU	CA-CB-CG	5.37	127.65	115.30
8	1Y	136	LEU	CB-CG-CD2	-5.37	101.87	111.00
21	3U	40	ASP	CB-CG-OD1	5.37	123.13	118.30
41	EF	135	LEU	CA-CB-CG	5.37	127.65	115.30
41	KD	380	ARG	CG-CD-NE	5.37	123.08	111.80
42	OC	260	VAL	CG1-CB-CG2	-5.37	102.31	110.90
41	OL	147	MET	CG-SD-CE	5.37	108.79	100.20
41	OF	345	ILE	CG1-CB-CG2	-5.36	99.60	111.40
42	FM	167	LEU	CA-CB-CG	5.36	127.63	115.30
41	NF	60	VAL	N-CA-CB	-5.36	99.71	111.50
42	RC	211	ASP	CB-CG-OD1	5.36	123.12	118.30
42	UG	160	ASP	CB-CG-OD1	5.36	123.12	118.30
41	UL	349	VAL	CG1-CB-CG2	5.35	119.47	110.90
41	JF	192	LEU	CA-CB-CG	5.35	127.60	115.30
41	KJ	31	ASP	CB-CG-OD1	5.35	123.11	118.30
42	DC	397	LEU	CA-CB-CG	5.34	127.59	115.30
42	DI	7	VAL	CG1-CB-CG2	-5.34	102.35	110.90
41	VL	321	MET	CG-SD-CE	-5.34	91.65	100.20
42	DM	286	LEU	CA-CB-CG	5.34	127.58	115.30
41	DF	7	LEU	CA-CB-CG	5.34	127.58	115.30
41	DB	327	ASP	CB-CG-OD1	5.33	123.10	118.30
41	EJ	403	MET	CB-CG-SD	-5.33	96.41	112.40
42	DI	224	TYR	CB-CG-CD1	5.33	124.20	121.00
41	SD	415	MET	CA-CB-CG	5.33	122.36	113.30
42	CM	154	MET	CA-CB-CG	5.33	122.35	113.30
42	DI	168	GLU	CA-CB-CG	5.32	125.11	113.40
41	LL	240	LEU	CB-CG-CD2	-5.32	101.95	111.00
37	7C	127	ARG	CG-CD-NE	5.32	122.97	111.80
41	KL	26	ASP	CB-CG-OD1	5.32	123.09	118.30
42	TM	384	ILE	CB-CG1-CD1	5.32	128.79	113.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
12	2O	250	ASP	CB-CG-OD1	5.32	123.09	118.30
41	PH	310	TYR	N-CA-CB	-5.32	101.03	110.60
42	PI	338	LYS	N-CA-CB	-5.32	101.03	110.60
41	TH	377	LEU	CB-CG-CD2	-5.32	101.96	111.00
9	2D	347	GLY	N-CA-C	5.31	126.39	113.10
42	BG	326	LYS	CG-CD-CE	-5.31	95.96	111.90
41	CH	44	LEU	CA-CB-CG	5.31	127.52	115.30
41	EF	1	MET	CA-CB-CG	5.31	122.33	113.30
42	UK	46	ASP	CB-CG-OD2	5.31	123.08	118.30
42	EI	224	TYR	CB-CG-CD1	-5.31	117.81	121.00
41	OD	249	ASP	CB-CG-OD2	5.31	123.08	118.30
41	HH	403	MET	CA-CB-CG	5.31	122.32	113.30
42	JC	411	GLU	CA-CB-CG	5.30	125.07	113.40
41	OD	331	LEU	CA-CB-CG	5.30	127.50	115.30
8	2B	15	TYR	CD1-CE1-CZ	-5.30	115.03	119.80
41	UH	395	LEU	CA-CB-CG	5.30	127.49	115.30
42	CM	96	LYS	CD-CE-NZ	5.30	123.88	111.70
41	NL	177	ASP	CB-CG-OD1	-5.30	113.53	118.30
42	OC	204	VAL	CG1-CB-CG2	-5.30	102.43	110.90
42	PI	3	GLU	N-CA-CB	-5.29	101.07	110.60
41	AF	395	LEU	CB-CG-CD1	-5.29	102.00	111.00
42	RK	272	TYR	CB-CG-CD1	-5.29	117.83	121.00
42	JE	77	GLU	CA-CB-CG	5.29	125.03	113.40
41	LL	263	LEU	CB-CG-CD2	5.28	119.98	111.00
42	CE	39	ASP	CB-CG-OD1	5.28	123.05	118.30
42	BE	98	ASP	CB-CG-OD1	5.28	123.05	118.30
41	OD	395	LEU	CA-CB-CG	5.28	127.44	115.30
41	PB	341	PHE	N-CA-CB	5.28	120.10	110.60
8	2B	15	TYR	CZ-CE2-CD2	-5.28	115.05	119.80
41	QB	395	LEU	CA-CB-CG	5.28	127.43	115.30
41	VF	355	ASP	CB-CG-OD2	5.28	123.05	118.30
42	EC	302	MET	CG-SD-CE	-5.27	91.77	100.20
41	CH	228	LEU	CA-CB-CG	5.27	127.42	115.30
41	GH	225	LEU	CA-CB-CG	5.27	127.42	115.30
42	VC	173	PRO	C-N-CA	5.27	134.88	121.70
42	PG	214	ARG	CB-CA-C	-5.27	99.86	110.40
41	IL	112	LEU	CA-CB-CG	5.27	127.41	115.30
41	JD	252	LYS	CD-CE-NZ	-5.26	99.59	111.70
42	OE	116	ASP	CB-CG-OD1	5.26	123.04	118.30
20	3O	261	MET	CA-CB-CG	5.26	122.24	113.30
41	CH	154	LYS	CD-CE-NZ	-5.26	99.61	111.70
42	UM	265	ILE	CG1-CB-CG2	-5.25	99.84	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	IN	200	TYR	N-CA-CB	-5.25	101.15	110.60
33	5R	116	CYS	CA-CB-SG	-5.25	104.55	114.00
41	OL	215	LEU	CA-CB-CG	5.24	127.35	115.30
42	BE	60	LYS	CD-CE-NZ	-5.24	99.65	111.70
42	CM	313	MET	CG-SD-CE	-5.24	91.82	100.20
42	MC	396	ASP	CB-CG-OD2	5.24	123.02	118.30
41	KD	418	LEU	CB-CG-CD2	-5.24	102.10	111.00
41	TH	147	MET	CB-CG-SD	-5.24	96.69	112.40
41	CB	304	ASP	CB-CG-OD1	5.24	123.01	118.30
42	SG	425	MET	CB-CG-SD	5.24	128.11	112.40
19	3J	313	LEU	CB-CG-CD2	-5.23	102.10	111.00
41	IN	336	LYS	CB-CA-C	-5.23	99.94	110.40
41	MJ	257	MET	CA-CB-CG	5.23	122.19	113.30
42	KG	1	MET	CG-SD-CE	-5.23	91.83	100.20
11	2K	345	LYS	CD-CE-NZ	-5.23	99.68	111.70
32	5N	77	LEU	CA-CB-CG	5.23	127.33	115.30
35	6W	131	LEU	CB-CG-CD2	5.23	119.88	111.00
41	UJ	263	LEU	CA-CB-CG	5.23	127.32	115.30
41	RL	24	ILE	CG1-CB-CG2	-5.22	99.91	111.40
42	UK	227	LEU	CA-CB-CG	5.22	127.31	115.30
9	2D	567	TYR	CD1-CE1-CZ	-5.22	115.10	119.80
41	RH	273	LEU	CB-CG-CD2	-5.22	102.13	111.00
42	KK	110	ILE	CG1-CB-CG2	-5.22	99.92	111.40
41	VH	330	MET	CA-CB-CG	-5.22	104.43	113.30
41	QF	388	MET	CA-CB-CG	5.21	122.17	113.30
20	3O	639	LEU	CA-CB-CG	5.21	127.28	115.30
21	3V	191	LEU	CB-CG-CD2	-5.21	102.14	111.00
41	EJ	280	GLN	CB-CA-C	5.21	120.83	110.40
41	KH	171	PRO	C-N-CA	5.21	134.73	121.70
42	PI	35	GLN	CB-CA-C	-5.21	99.98	110.40
41	TD	233	MET	CA-CB-CG	5.21	122.16	113.30
42	TM	132	LEU	CA-CB-CG	5.21	127.28	115.30
42	AE	203	MET	CG-SD-CE	-5.21	91.87	100.20
42	DM	231	ILE	CG1-CB-CG2	-5.21	99.95	111.40
42	OI	154	MET	CA-CB-CG	5.20	122.15	113.30
41	TD	395	LEU	CB-CG-CD1	-5.20	102.15	111.00
41	CL	257	MET	CG-SD-CE	5.20	108.52	100.20
41	WN	42	LEU	CB-CG-CD1	-5.20	102.16	111.00
41	GH	259	PRO	N-CD-CG	-5.20	95.40	103.20
41	BJ	42	LEU	CB-CG-CD2	-5.20	102.17	111.00
41	VH	5	VAL	CG1-CB-CG2	-5.20	102.59	110.90
42	UM	221	ARG	CB-CG-CD	5.19	125.09	111.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	UJ	395	LEU	CA-CB-CG	5.19	127.23	115.30
41	EL	324	LYS	CB-CA-C	-5.18	100.03	110.40
42	KK	248	LEU	CA-CB-CG	5.18	127.22	115.30
41	OF	4	ILE	CG1-CB-CG2	-5.18	100.00	111.40
32	5N	171	LEU	CA-CB-CG	5.18	127.21	115.30
42	TG	171	ILE	C-N-CA	5.17	134.63	121.70
42	EI	398	MET	CG-SD-CE	-5.17	91.93	100.20
41	JD	128	ASP	CB-CG-OD1	5.17	122.95	118.30
42	OE	32	PRO	CB-CG-CD	5.17	126.67	106.50
41	TJ	323	MET	C-N-CA	-5.17	108.77	121.70
41	UH	240	LEU	CB-CG-CD2	-5.17	102.21	111.00
42	MM	306	ASP	CB-CG-OD2	5.17	122.95	118.30
42	PG	358	GLN	N-CA-CB	5.17	119.90	110.60
41	VD	240	LEU	CA-CB-CG	5.17	127.18	115.30
42	HE	425	MET	CG-SD-CE	-5.16	91.94	100.20
41	BL	281	TYR	CD1-CE1-CZ	-5.16	115.16	119.80
41	GH	388	MET	CB-CG-SD	-5.16	96.92	112.40
42	TG	291	ILE	CG1-CB-CG2	-5.16	100.05	111.40
41	DF	418	LEU	CB-CG-CD2	5.16	119.77	111.00
41	EF	217	LEU	CA-CB-CG	5.15	127.15	115.30
41	LJ	77	ARG	CG-CD-NE	-5.15	100.98	111.80
33	5S	392	ASP	CB-CG-OD1	5.15	122.94	118.30
41	SH	209	ASP	CB-CG-OD2	5.15	122.93	118.30
42	MK	160	ASP	CB-CG-OD2	5.14	122.93	118.30
42	PI	295	CYS	CB-CA-C	-5.14	100.12	110.40
42	QE	242	LEU	CB-CG-CD1	5.14	119.74	111.00
42	EC	114	LEU	CB-CG-CD1	5.14	119.73	111.00
20	3O	29	ILE	CG1-CB-CG2	-5.13	100.10	111.40
41	SD	135	LEU	CA-CB-CG	5.13	127.10	115.30
41	UL	330	MET	CA-CB-CG	-5.13	104.58	113.30
42	GC	154	MET	CB-CG-SD	5.13	127.79	112.40
41	PH	282	ARG	CB-CA-C	-5.13	100.14	110.40
41	TH	324	LYS	CG-CD-CE	-5.13	96.52	111.90
32	5L	311	LYS	CB-CG-CD	5.12	124.92	111.60
41	FF	225	LEU	CB-CG-CD2	-5.12	102.29	111.00
42	PG	258	ASN	CB-CA-C	-5.12	100.15	110.40
21	3U	88	LYS	CA-CB-CG	5.12	124.66	113.40
42	SK	313	MET	CA-CB-CG	5.12	122.00	113.30
33	5R	202	LYS	CB-CG-CD	5.12	124.91	111.60
42	TC	261	PRO	CB-CG-CD	-5.12	86.54	106.50
8	1Y	161	ARG	CG-CD-NE	5.12	122.54	111.80
34	6N	420	LEU	CA-CB-CG	5.12	127.07	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	AD	31	ASP	CB-CG-OD2	5.12	122.91	118.30
41	DB	2	ARG	CG-CD-NE	5.12	122.54	111.80
36	6Y	14	PRO	CA-N-CD	-5.11	104.34	111.50
41	HB	193	VAL	CG1-CB-CG2	-5.11	102.72	110.90
42	OI	209	ILE	CG1-CB-CG2	-5.11	100.16	111.40
41	SH	44	LEU	CA-CB-CG	5.11	127.05	115.30
41	EL	246	LEU	CA-CB-CG	5.11	127.05	115.30
41	HH	65	LEU	CA-CB-CG	5.11	127.05	115.30
41	JD	253	LEU	CB-CG-CD1	-5.11	102.31	111.00
32	5N	351	LEU	CA-CB-CG	5.11	127.05	115.30
41	IH	42	LEU	CA-CB-CG	5.11	127.05	115.30
35	6U	350	LEU	CA-CB-CG	5.11	127.04	115.30
42	PG	272	TYR	N-CA-CB	5.10	119.79	110.60
42	HM	101	ASN	OD1-CG-ND2	-5.10	110.17	121.90
41	KD	68	LEU	CB-CG-CD2	-5.10	102.33	111.00
41	RH	187	LEU	CA-CB-CG	5.10	127.03	115.30
42	DM	318	LEU	CA-CB-CG	5.10	127.03	115.30
41	QF	64	VAL	CG1-CB-CG2	-5.10	102.74	110.90
42	TE	218	ASP	CB-CG-OD2	5.10	122.89	118.30
38	7H	64	GLN	C-N-CA	5.10	134.44	121.70
41	QB	380	ARG	CA-CB-CG	5.10	124.61	113.40
42	PG	312	TYR	N-CA-CB	-5.09	101.43	110.60
42	TM	318	LEU	CA-CB-CG	5.09	127.02	115.30
21	3V	240	LEU	CA-CB-CG	5.09	127.01	115.30
42	SG	105	ARG	CB-CG-CD	5.09	124.84	111.60
41	TL	42	LEU	CB-CG-CD2	-5.09	102.34	111.00
34	6F	429	ASP	CB-CG-OD1	5.09	122.88	118.30
42	HK	217	LEU	CA-CB-CG	5.09	127.00	115.30
42	LG	326	LYS	CD-CE-NZ	-5.09	100.00	111.70
42	WM	152	LEU	CB-CG-CD2	-5.08	102.36	111.00
41	BB	246	LEU	CA-CB-CG	5.08	126.99	115.30
41	QJ	133	PHE	N-CA-CB	-5.08	101.45	110.60
42	VE	318	LEU	CB-CG-CD2	-5.08	102.36	111.00
42	CK	377	MET	CG-SD-CE	-5.08	92.07	100.20
42	CK	424	ASP	CB-CG-OD2	5.08	122.87	118.30
41	DF	179	VAL	CG1-CB-CG2	-5.08	102.78	110.90
42	RI	227	LEU	CB-CG-CD2	5.08	119.64	111.00
42	TM	137	ILE	CG1-CB-CG2	5.08	122.57	111.40
42	LG	154	MET	CB-CG-SD	-5.08	97.17	112.40
41	PH	324	LYS	CB-CA-C	-5.08	100.25	110.40
42	QE	227	LEU	CA-CB-CG	5.08	126.97	115.30
12	2P	98	LEU	CA-CB-CG	5.07	126.96	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
41	BJ	252	LYS	CD-CE-NZ	-5.07	100.04	111.70
35	6V	286	LEU	CB-CG-CD1	-5.07	102.39	111.00
42	DE	364	PRO	CA-N-CD	-5.06	104.41	111.50
21	3T	20	ASP	CB-CG-OD1	5.06	122.86	118.30
41	DF	44	LEU	CA-CB-CG	5.06	126.94	115.30
42	CM	377	MET	CB-CG-SD	-5.06	97.22	112.40
8	1X	115	LYS	CD-CE-NZ	-5.06	100.07	111.70
41	VL	336	LYS	CD-CE-NZ	-5.05	100.08	111.70
33	5R	338	LEU	CA-CB-CG	5.05	126.92	115.30
42	HE	259	LEU	CB-CG-CD2	-5.05	102.41	111.00
42	PG	120	ASP	CB-CA-C	-5.05	100.30	110.40
20	3N	124	LEU	CB-CG-CD2	5.04	119.58	111.00
33	5W	117	LEU	CA-CB-CG	5.04	126.90	115.30
42	NE	32	PRO	CA-N-CD	-5.04	104.44	111.50
42	OA	286	LEU	CB-CA-C	5.04	119.78	110.20
42	PG	227	LEU	N-CA-CB	-5.04	100.31	110.40
41	EH	215	LEU	CA-CB-CG	5.04	126.89	115.30
33	5X	391	MET	CB-CG-SD	-5.04	97.28	112.40
41	NH	260	PHE	CB-CA-C	5.04	120.48	110.40
41	TD	330	MET	CG-SD-CE	-5.04	92.14	100.20
9	2D	664	LEU	CA-CB-CG	5.04	126.89	115.30
41	OF	192	LEU	CA-CB-CG	5.04	126.88	115.30
37	7D	28	PRO	C-N-CA	5.03	134.28	121.70
42	PG	210	TYR	CA-CB-CG	5.03	122.96	113.40
41	RL	7	LEU	CA-CB-CG	5.03	126.87	115.30
42	KK	70	LEU	CB-CG-CD1	-5.03	102.45	111.00
37	7D	77	LEU	CB-CG-CD2	-5.03	102.46	111.00
41	QF	7	LEU	CA-CB-CG	5.03	126.86	115.30
41	FJ	267	MET	CB-CG-SD	-5.02	97.33	112.40
41	QB	240	LEU	CA-CB-CG	5.02	126.86	115.30
42	EI	346	TRP	CB-CG-CD1	5.02	133.53	127.00
19	3L	338	LEU	CA-CB-CG	5.02	126.85	115.30
41	KF	67	ASP	CB-CG-OD1	5.02	122.82	118.30
22	3Y	258	LEU	CB-CG-CD1	5.02	119.53	111.00
41	PJ	270	PHE	N-CA-CB	5.02	119.63	110.60
42	RK	157	LEU	CA-CB-CG	5.01	126.82	115.30
41	QD	7	LEU	CB-CG-CD2	5.01	119.51	111.00
41	QB	344	TRP	CA-CB-CG	5.01	123.21	113.70
9	2D	288	ASP	CB-CG-OD1	5.00	122.81	118.30

There are no chirality outliers.

All (1942) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	1D	150	ARG	Sidechain
2	1D	151	ARG	Sidechain
2	1D	187	ARG	Sidechain
2	1D	222	ARG	Sidechain
2	1E	150	ARG	Sidechain
2	1E	177	ARG	Sidechain
2	1E	184	ARG	Sidechain
2	1E	222	ARG	Sidechain
3	1I	113	ARG	Sidechain
6	1R	43	ARG	Sidechain
7	1T	256	ARG	Sidechain
7	1U	167	ARG	Sidechain
8	1W	100	ARG	Sidechain
8	1W	101	ARG	Sidechain
8	1W	102	ARG	Sidechain
8	1W	113	ARG	Sidechain
8	1W	124	ARG	Sidechain
8	1W	141	ARG	Sidechain
8	1W	142	ARG	Sidechain
8	1W	153	ARG	Sidechain
8	1W	164	ARG	Sidechain
8	1W	170	ARG	Sidechain
8	1X	115	LYS	Peptide
8	2A	100	ARG	Sidechain
8	2A	101	ARG	Sidechain
8	2A	104	ARG	Sidechain
8	2A	113	ARG	Sidechain
8	2A	124	ARG	Sidechain
8	2B	164	ARG	Sidechain
9	2D	326	PHE	Peptide
9	2D	402	PHE	Sidechain
9	2D	574	HIS	Peptide
11	2J	225	ARG	Sidechain
11	2K	248	ARG	Sidechain
11	2K	419	ARG	Sidechain
11	2K	422	ARG	Sidechain
11	2K	511	ARG	Sidechain
11	2M	391	ARG	Sidechain
12	2O	173	ARG	Sidechain
12	2O	314	GLU	Peptide
12	2O	527	ARG	Sidechain
12	2P	57	THR	Peptide
13	2S	231	ARG	Peptide

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Mol	Chain	Res	Type	Group
13	2T	397	ARG	Sidechain
13	2T	407	ARG	Sidechain
13	2T	415	ARG	Sidechain
13	2T	421	ARG	Sidechain
13	2T	439	ARG	Sidechain
13	2T	440	ARG	Sidechain
14	2V	250	ALA	Peptide
14	2W	71	PRO	Peptide
14	2W	90	ARG	Sidechain
14	2X	225	ARG	Sidechain
15	3A	138	ALA	Peptide
15	3A	29	ARG	Sidechain
15	3A	94	ARG	Sidechain
16	3C	57	LEU	Peptide
16	3C	60	GLY	Peptide
16	3C	61	TYR	Peptide
19	3J	285	ARG	Sidechain
19	3J	474	LYS	Peptide
19	3K	221	ARG	Sidechain
19	3L	207	MET	Peptide
19	3L	502	ARG	Sidechain
20	3N	11	HIS	Peptide
20	3N	111	LEU	Peptide
20	3N	7	HIS	Peptide
20	3O	243	ASP	Peptide
20	3O	340	CYS	Peptide
20	3O	358	ASN	Peptide
20	3Q	442	TYR	Peptide
21	3U	249	LYS	Peptide
22	3Y	28	ARG	Sidechain
22	3Y	44	ARG	Sidechain
22	3Y	56	ARG	Sidechain
22	4B	191	LEU	Peptide
24	4F	13	ARG	Sidechain
24	4F	33	ARG	Sidechain
24	4F	39	ARG	Sidechain
24	4F	50	ARG	Sidechain
24	4F	53	ARG	Sidechain
24	4F	55	ARG	Sidechain
24	4F	58	ARG	Sidechain
27	4R	160	ARG	Sidechain
27	4R	191	ARG	Sidechain

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Mol	Chain	Res	Type	Group
27	4R	234	ARG	Sidechain
27	4R	54	ARG	Sidechain
27	4R	65	ARG	Sidechain
27	4R	78	ARG	Sidechain
27	4T	191	ARG	Sidechain
27	4T	218	ARG	Sidechain
28	4W	52	PRO	Peptide
29	4Y	58	TYR	Peptide
30	5A	25	ARG	Sidechain
31	5D	125	HIS	Peptide
32	5O	122	ARG	Sidechain
32	5O	144	ARG	Sidechain
32	5O	152	ARG	Sidechain
32	5O	162	ARG	Sidechain
32	5O	176	ARG	Sidechain
32	5O	206	ARG	Sidechain
32	5O	232	ARG	Sidechain
32	5O	254	ARG	Sidechain
32	5O	255	ARG	Sidechain
32	5O	26	ARG	Sidechain
32	5O	275	ARG	Sidechain
32	5O	31	ARG	Sidechain
32	5O	33	ARG	Sidechain
32	5O	36	ARG	Sidechain
32	5O	394	ARG	Sidechain
32	5O	400	ARG	Sidechain
32	5O	43	ARG	Sidechain
32	5O	53	ARG	Sidechain
32	5O	66	ARG	Sidechain
32	5O	97	ARG	Sidechain
33	5R	32	ARG	Sidechain
33	5S	13	ARG	Sidechain
33	5S	169	ARG	Sidechain
33	5S	171	ARG	Sidechain
33	5S	177	ARG	Sidechain
33	5S	207	ARG	Sidechain
33	5S	223	ARG	Sidechain
33	5S	30	ARG	Sidechain
33	5S	32	ARG	Sidechain
33	5S	39	ARG	Sidechain
33	5S	43	ARG	Sidechain
33	5S	61	ARG	Sidechain

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Mol	Chain	Res	Type	Group
33	5S	63	ARG	Sidechain
33	5S	67	ARG	Sidechain
33	5S	73	ARG	Sidechain
33	5T	123	ARG	Sidechain
33	5T	124	ARG	Sidechain
33	5T	169	ARG	Sidechain
33	5T	171	ARG	Sidechain
33	5T	223	ARG	Sidechain
33	5T	266	ARG	Sidechain
33	5T	268	ARG	Sidechain
33	5T	270	ARG	Sidechain
33	5T	298	ARG	Sidechain
33	5T	305	ARG	Sidechain
33	5T	306	ARG	Sidechain
33	5T	324	ARG	Sidechain
33	5T	331	ARG	Sidechain
33	5T	372	ARG	Sidechain
33	5T	395	ARG	Sidechain
33	5T	67	ARG	Sidechain
33	5T	73	ARG	Sidechain
33	5V	223	ARG	Sidechain
33	5V	258	ARG	Sidechain
33	5V	266	ARG	Sidechain
33	5V	268	ARG	Sidechain
33	5V	305	ARG	Sidechain
33	5W	411	PHE	Peptide
33	5W	46	ARG	Sidechain
33	5X	32	ARG	Sidechain
33	5X	43	ARG	Sidechain
33	5Y	203	ILE	Peptide
33	5Y	207	ARG	Sidechain
33	5Y	61	ARG	Sidechain
33	5Y	63	ARG	Sidechain
33	5Y	67	ARG	Sidechain
34	6A	101	ARG	Sidechain
34	6A	114	ARG	Sidechain
34	6A	119	ARG	Sidechain
34	6A	126	ARG	Sidechain
34	6A	136	ARG	Sidechain
34	6A	149	ARG	Sidechain
34	6A	183	ARG	Sidechain
34	6A	196	ARG	Sidechain

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Mol	Chain	Res	Type	Group
34	6A	202	ARG	Sidechain
34	6A	205	ARG	Sidechain
34	6A	232	ARG	Sidechain
34	6A	248	ARG	Sidechain
34	6A	266	ARG	Sidechain
34	6A	275	ARG	Sidechain
34	6A	289	ARG	Sidechain
34	6A	315	ARG	Sidechain
34	6A	478	ARG	Sidechain
34	6A	93	ARG	Sidechain
34	6B	399	ARG	Sidechain
34	6B	403	ARG	Sidechain
34	6B	413	ARG	Sidechain
34	6B	419	ARG	Sidechain
34	6B	439	ARG	Sidechain
34	6C	119	ARG	Sidechain
34	6C	121	ARG	Sidechain
34	6C	126	ARG	Sidechain
34	6C	136	ARG	Sidechain
34	6C	180	ARG	Sidechain
34	6C	183	ARG	Sidechain
34	6C	248	ARG	Sidechain
34	6C	266	ARG	Sidechain
34	6C	289	ARG	Sidechain
34	6C	310	ARG	Sidechain
34	6C	315	ARG	Sidechain
34	6C	322	ARG	Sidechain
34	6C	350	ARG	Sidechain
34	6C	403	ARG	Sidechain
34	6C	405	ARG	Sidechain
34	6C	413	ARG	Sidechain
34	6C	437	ARG	Sidechain
34	6C	477	ARG	Sidechain
34	6C	478	ARG	Sidechain
34	6C	485	ARG	Sidechain
34	6D	350	ARG	Sidechain
34	6D	399	ARG	Sidechain
34	6D	403	ARG	Sidechain
34	6D	405	ARG	Sidechain
34	6D	406	ARG	Sidechain
34	6D	413	ARG	Sidechain
34	6D	437	ARG	Sidechain

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Mol	Chain	Res	Type	Group
34	6D	439	ARG	Sidechain
34	6E	403	ARG	Sidechain
34	6E	405	ARG	Sidechain
34	6E	406	ARG	Sidechain
34	6E	413	ARG	Sidechain
34	6E	419	ARG	Sidechain
34	6F	350	ARG	Sidechain
34	6H	121	ARG	Sidechain
34	6H	275	ARG	Sidechain
34	6H	278	SER	Peptide
34	6H	477	ARG	Sidechain
34	6L	71	ARG	Sidechain
35	6R	101	ARG	Sidechain
35	6R	106	ARG	Sidechain
35	6R	119	ARG	Sidechain
35	6R	161	ARG	Sidechain
35	6R	267	ARG	Sidechain
35	6R	270	ARG	Sidechain
35	6R	272	ARG	Sidechain
35	6R	94	ARG	Sidechain
35	6S	137	ARG	Sidechain
35	6S	140	ARG	Sidechain
35	6S	159	ARG	Sidechain
35	6S	161	ARG	Sidechain
35	6S	162	ARG	Sidechain
35	6S	169	ARG	Sidechain
35	6S	192	ARG	Sidechain
35	6S	202	ARG	Sidechain
35	6S	370	ARG	Sidechain
35	6S	376	ARG	Sidechain
35	6V	140	ARG	Sidechain
35	6V	159	ARG	Sidechain
35	6V	161	ARG	Sidechain
35	6V	169	ARG	Sidechain
35	6V	192	ARG	Sidechain
35	6V	47	ARG	Sidechain
35	6V	63	ARG	Sidechain
35	6W	47	ARG	Sidechain
35	6W	63	ARG	Sidechain
36	6Z	49	CYS	Peptide
37	7C	139	PRO	Peptide
37	7C	140	ALA	Peptide

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Mol	Chain	Res	Type	Group
37	7C	197	ALA	Peptide
37	7D	78	ARG	Sidechain
37	7F	92	ARG	Sidechain
38	7H	201	PRO	Peptide
38	7H	206	ARG	Sidechain
41	AH	121	ARG	Sidechain
41	AH	156	ARG	Sidechain
41	AH	162	ARG	Sidechain
41	AH	241	ARG	Sidechain
41	AH	262	ARG	Sidechain
41	AH	276	ARG	Sidechain
41	AH	282	ARG	Sidechain
41	AH	306	ARG	Sidechain
41	AH	309	ARG	Sidechain
41	AH	318	ARG	Sidechain
41	AH	320	ARG	Sidechain
41	AH	359	ARG	Sidechain
41	AH	390	ARG	Sidechain
41	AH	391	ARG	Sidechain
41	AH	46	ARG	Sidechain
41	AH	77	ARG	Sidechain
41	AH	86	ARG	Sidechain
42	AI	105	ARG	Sidechain
42	AI	123	ARG	Sidechain
42	AI	156	ARG	Sidechain
42	AI	2	ARG	Sidechain
42	AI	214	ARG	Sidechain
42	AI	215	ARG	Sidechain
42	AI	221	ARG	Sidechain
42	AI	229	ARG	Sidechain
42	AI	243	ARG	Sidechain
42	AI	264	ARG	Sidechain
42	AI	320	ARG	Sidechain
42	AI	339	ARG	Sidechain
42	AI	373	ARG	Sidechain
42	AI	390	ARG	Sidechain
42	AI	402	ARG	Sidechain
42	AI	422	ARG	Sidechain
42	AI	79	ARG	Sidechain
42	AI	84	ARG	Sidechain
42	AK	105	ARG	Sidechain
42	AK	121	ARG	Sidechain

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Mol	Chain	Res	Type	Group
42	AK	156	ARG	Sidechain
42	AK	2	ARG	Sidechain
42	AK	215	ARG	Sidechain
42	AK	229	ARG	Sidechain
42	AK	264	ARG	Sidechain
42	AK	308	ARG	Sidechain
42	AK	320	ARG	Sidechain
42	AK	339	ARG	Sidechain
42	AK	373	ARG	Sidechain
42	AK	390	ARG	Sidechain
42	AK	402	ARG	Sidechain
42	AK	422	ARG	Sidechain
42	AK	64	ARG	Sidechain
42	AK	84	ARG	Sidechain
41	AL	121	ARG	Sidechain
41	AL	156	ARG	Sidechain
41	AL	162	ARG	Sidechain
41	AL	2	ARG	Sidechain
41	AL	241	ARG	Sidechain
41	AL	276	ARG	Sidechain
41	AL	282	ARG	Sidechain
41	AL	306	ARG	Sidechain
41	AL	318	ARG	Sidechain
41	AL	320	ARG	Sidechain
41	AL	359	ARG	Sidechain
41	AL	380	ARG	Sidechain
41	AL	390	ARG	Sidechain
41	AL	391	ARG	Sidechain
41	AL	46	ARG	Sidechain
41	AL	62	ARG	Sidechain
41	AL	77	ARG	Sidechain
41	AL	86	ARG	Sidechain
42	BC	174	ALA	Peptide
41	BD	121	ARG	Sidechain
41	BD	156	ARG	Sidechain
41	BD	162	ARG	Sidechain
41	BD	213	ARG	Sidechain
41	BD	241	ARG	Sidechain
41	BD	251	ARG	Sidechain
41	BD	262	ARG	Sidechain
41	BD	276	ARG	Sidechain
41	BD	282	ARG	Sidechain

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Mol	Chain	Res	Type	Group
41	BD	306	ARG	Sidechain
41	BD	318	ARG	Sidechain
41	BD	320	ARG	Sidechain
41	BD	359	ARG	Sidechain
41	BD	390	ARG	Sidechain
41	BD	391	ARG	Sidechain
41	BD	46	ARG	Sidechain
41	BD	62	ARG	Sidechain
41	BD	77	ARG	Sidechain
41	BD	86	ARG	Sidechain
42	BE	390	ARG	Sidechain
42	BI	105	ARG	Sidechain
42	BI	121	ARG	Sidechain
42	BI	123	ARG	Sidechain
42	BI	156	ARG	Sidechain
42	BI	2	ARG	Sidechain
42	BI	214	ARG	Sidechain
42	BI	221	ARG	Sidechain
42	BI	229	ARG	Sidechain
42	BI	243	ARG	Sidechain
42	BI	264	ARG	Sidechain
42	BI	308	ARG	Sidechain
42	BI	320	ARG	Sidechain
42	BI	339	ARG	Sidechain
42	BI	373	ARG	Sidechain
42	BI	390	ARG	Sidechain
42	BI	402	ARG	Sidechain
42	BI	422	ARG	Sidechain
42	BI	64	ARG	Sidechain
42	BI	79	ARG	Sidechain
42	BI	84	ARG	Sidechain
42	CC	105	ARG	Sidechain
42	CC	123	ARG	Sidechain
42	CC	2	ARG	Sidechain
42	CC	214	ARG	Sidechain
42	CC	215	ARG	Sidechain
42	CC	229	ARG	Sidechain
42	CC	243	ARG	Sidechain
42	CC	264	ARG	Sidechain
42	CC	320	ARG	Sidechain
42	CC	339	ARG	Sidechain
42	CC	373	ARG	Sidechain

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Mol	Chain	Res	Type	Group
42	CC	390	ARG	Sidechain
42	CC	402	ARG	Sidechain
42	CC	84	ARG	Sidechain
41	CD	121	ARG	Sidechain
41	CD	162	ARG	Sidechain
41	CD	2	ARG	Sidechain
41	CD	213	ARG	Sidechain
41	CD	241	ARG	Sidechain
41	CD	276	ARG	Sidechain
41	CD	282	ARG	Sidechain
41	CD	306	ARG	Sidechain
41	CD	309	ARG	Sidechain
41	CD	318	ARG	Sidechain
41	CD	320	ARG	Sidechain
41	CD	359	ARG	Sidechain
41	CD	380	ARG	Sidechain
41	CD	391	ARG	Sidechain
41	CD	46	ARG	Sidechain
41	CD	77	ARG	Sidechain
41	CD	86	ARG	Sidechain
41	CF	121	ARG	Sidechain
41	CF	156	ARG	Sidechain
41	CF	162	ARG	Sidechain
41	CF	2	ARG	Sidechain
41	CF	213	ARG	Sidechain
41	CF	251	ARG	Sidechain
41	CF	262	ARG	Sidechain
41	CF	276	ARG	Sidechain
41	CF	282	ARG	Sidechain
41	CF	306	ARG	Sidechain
41	CF	309	ARG	Sidechain
41	CF	318	ARG	Sidechain
41	CF	320	ARG	Sidechain
41	CF	380	ARG	Sidechain
41	CF	46	ARG	Sidechain
41	CF	77	ARG	Sidechain
41	CF	86	ARG	Sidechain
42	CG	105	ARG	Sidechain
42	CG	121	ARG	Sidechain
42	CG	123	ARG	Sidechain
42	CG	214	ARG	Sidechain
42	CG	215	ARG	Sidechain

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Mol	Chain	Res	Type	Group
42	CG	229	ARG	Sidechain
42	CG	243	ARG	Sidechain
42	CG	264	ARG	Sidechain
42	CG	308	ARG	Sidechain
42	CG	320	ARG	Sidechain
42	CG	339	ARG	Sidechain
42	CG	373	ARG	Sidechain
42	CG	390	ARG	Sidechain
42	CG	402	ARG	Sidechain
42	CG	64	ARG	Sidechain
42	CG	79	ARG	Sidechain
41	CH	401	GLU	Peptide
41	CH	59	TYR	Peptide
41	CJ	156	ARG	Sidechain
41	CJ	162	ARG	Sidechain
41	CJ	2	ARG	Sidechain
41	CJ	241	ARG	Sidechain
41	CJ	251	ARG	Sidechain
41	CJ	262	ARG	Sidechain
41	CJ	276	ARG	Sidechain
41	CJ	282	ARG	Sidechain
41	CJ	306	ARG	Sidechain
41	CJ	318	ARG	Sidechain
41	CJ	320	ARG	Sidechain
41	CJ	359	ARG	Sidechain
41	CJ	380	ARG	Sidechain
41	CJ	390	ARG	Sidechain
41	CJ	391	ARG	Sidechain
41	CJ	46	ARG	Sidechain
41	CJ	62	ARG	Sidechain
41	CJ	77	ARG	Sidechain
41	CJ	86	ARG	Sidechain
42	CK	100	ALA	Peptide
42	CK	219	ILE	Peptide
42	CK	411	GLU	Peptide
41	CL	252	LYS	Peptide
42	CM	100	ALA	Peptide
42	CM	215	ARG	Sidechain
42	DC	130	THR	Peptide
42	DC	145	THR	Peptide
42	DC	214	ARG	Sidechain
41	DF	39	ASP	Peptide

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Mol	Chain	Res	Type	Group
42	DG	72	PRO	Peptide
41	DH	121	ARG	Sidechain
41	DH	162	ARG	Sidechain
41	DH	2	ARG	Sidechain
41	DH	213	ARG	Sidechain
41	DH	241	ARG	Sidechain
41	DH	262	ARG	Sidechain
41	DH	276	ARG	Sidechain
41	DH	282	ARG	Sidechain
41	DH	306	ARG	Sidechain
41	DH	309	ARG	Sidechain
41	DH	318	ARG	Sidechain
41	DH	320	ARG	Sidechain
41	DH	359	ARG	Sidechain
41	DH	390	ARG	Sidechain
41	DH	391	ARG	Sidechain
41	DH	46	ARG	Sidechain
41	DH	62	ARG	Sidechain
41	DH	77	ARG	Sidechain
42	DI	217	LEU	Peptide
42	DI	221	ARG	Sidechain
42	DI	224	TYR	Sidechain
41	DJ	121	ARG	Sidechain
41	DJ	162	ARG	Sidechain
41	DJ	2	ARG	Sidechain
41	DJ	213	ARG	Sidechain
41	DJ	241	ARG	Sidechain
41	DJ	251	ARG	Sidechain
41	DJ	262	ARG	Sidechain
41	DJ	276	ARG	Sidechain
41	DJ	282	ARG	Sidechain
41	DJ	306	ARG	Sidechain
41	DJ	320	ARG	Sidechain
41	DJ	380	ARG	Sidechain
41	DJ	390	ARG	Sidechain
41	DJ	391	ARG	Sidechain
41	DJ	46	ARG	Sidechain
41	DJ	62	ARG	Sidechain
41	DJ	77	ARG	Sidechain
42	DK	121	ARG	Sidechain
42	DK	156	ARG	Sidechain
42	DK	2	ARG	Sidechain

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Mol	Chain	Res	Type	Group
42	DK	214	ARG	Sidechain
42	DK	215	ARG	Sidechain
42	DK	221	ARG	Sidechain
42	DK	229	ARG	Sidechain
42	DK	243	ARG	Sidechain
42	DK	264	ARG	Sidechain
42	DK	308	ARG	Sidechain
42	DK	320	ARG	Sidechain
42	DK	373	ARG	Sidechain
42	DK	390	ARG	Sidechain
42	DK	402	ARG	Sidechain
42	DK	422	ARG	Sidechain
42	DK	64	ARG	Sidechain
42	DK	79	ARG	Sidechain
42	DK	84	ARG	Sidechain
41	DL	156	ARG	Sidechain
41	DL	62	ARG	Sidechain
41	DL	77	ARG	Sidechain
41	DL	86	ARG	Sidechain
42	DM	4	CYS	Peptide
42	EC	183	GLU	Peptide
42	EC	243	ARG	Sidechain
42	EC	348	PRO	Peptide
41	ED	121	ARG	Sidechain
41	ED	156	ARG	Sidechain
41	ED	213	ARG	Sidechain
41	ED	241	ARG	Sidechain
41	ED	251	ARG	Sidechain
41	ED	276	ARG	Sidechain
41	ED	282	ARG	Sidechain
41	ED	306	ARG	Sidechain
41	ED	309	ARG	Sidechain
41	ED	318	ARG	Sidechain
41	ED	320	ARG	Sidechain
41	ED	359	ARG	Sidechain
41	ED	380	ARG	Sidechain
41	ED	390	ARG	Sidechain
41	ED	391	ARG	Sidechain
41	ED	46	ARG	Sidechain
41	ED	62	ARG	Sidechain
41	ED	86	ARG	Sidechain
42	EE	105	ARG	Sidechain

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Mol	Chain	Res	Type	Group
42	EE	121	ARG	Sidechain
42	EE	123	ARG	Sidechain
42	EE	2	ARG	Sidechain
42	EE	221	ARG	Sidechain
42	EE	243	ARG	Sidechain
42	EE	264	ARG	Sidechain
42	EE	308	ARG	Sidechain
42	EE	320	ARG	Sidechain
42	EE	339	ARG	Sidechain
42	EE	373	ARG	Sidechain
42	EE	390	ARG	Sidechain
42	EE	64	ARG	Sidechain
42	EE	79	ARG	Sidechain
41	EF	391	ARG	Sidechain
42	EG	105	ARG	Sidechain
42	EG	123	ARG	Sidechain
42	EG	156	ARG	Sidechain
42	EG	2	ARG	Sidechain
42	EG	264	ARG	Sidechain
42	EG	320	ARG	Sidechain
42	EG	339	ARG	Sidechain
42	EG	373	ARG	Sidechain
42	EG	390	ARG	Sidechain
42	EG	422	ARG	Sidechain
41	EH	15	GLN	Sidechain
41	EH	289	LEU	Peptide
41	EH	302	ALA	Peptide
42	EI	105	ARG	Sidechain
42	EI	164	LYS	Peptide
41	EJ	372	THR	Peptide
41	EJ	380	ARG	Sidechain
41	EJ	391	ARG	Sidechain
42	EK	105	ARG	Sidechain
42	EK	121	ARG	Sidechain
42	EK	123	ARG	Sidechain
42	EK	2	ARG	Sidechain
42	EK	221	ARG	Sidechain
42	EK	229	ARG	Sidechain
42	EK	243	ARG	Sidechain
42	EK	308	ARG	Sidechain
42	EK	339	ARG	Sidechain
42	EK	373	ARG	Sidechain

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Mol	Chain	Res	Type	Group
42	EK	390	ARG	Sidechain
42	EK	402	ARG	Sidechain
42	EK	79	ARG	Sidechain
42	EK	84	ARG	Sidechain
41	EL	276	ARG	Sidechain
41	EL	282	ARG	Sidechain
41	EL	324	LYS	Peptide
41	EL	390	ARG	Sidechain
41	EL	391	ARG	Sidechain
42	EM	105	ARG	Sidechain
42	EM	121	ARG	Sidechain
42	EM	123	ARG	Sidechain
42	EM	156	ARG	Sidechain
42	EM	2	ARG	Sidechain
42	EM	215	ARG	Sidechain
42	EM	221	ARG	Sidechain
42	EM	229	ARG	Sidechain
42	EM	243	ARG	Sidechain
42	EM	264	ARG	Sidechain
42	EM	320	ARG	Sidechain
42	EM	373	ARG	Sidechain
42	EM	390	ARG	Sidechain
42	EM	402	ARG	Sidechain
42	EM	422	ARG	Sidechain
42	EM	64	ARG	Sidechain
42	EM	84	ARG	Sidechain
42	FC	105	ARG	Sidechain
42	FC	121	ARG	Sidechain
42	FC	156	ARG	Sidechain
42	FC	2	ARG	Sidechain
42	FC	214	ARG	Sidechain
42	FC	215	ARG	Sidechain
42	FC	221	ARG	Sidechain
42	FC	229	ARG	Sidechain
42	FC	243	ARG	Sidechain
42	FC	308	ARG	Sidechain
42	FC	320	ARG	Sidechain
42	FC	339	ARG	Sidechain
42	FC	373	ARG	Sidechain
42	FC	390	ARG	Sidechain
42	FC	402	ARG	Sidechain
42	FC	422	ARG	Sidechain

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Mol	Chain	Res	Type	Group
42	FC	64	ARG	Sidechain
42	FC	79	ARG	Sidechain
42	FC	84	ARG	Sidechain
41	FD	121	ARG	Sidechain
41	FD	156	ARG	Sidechain
41	FD	162	ARG	Sidechain
41	FD	2	ARG	Sidechain
41	FD	213	ARG	Sidechain
41	FD	241	ARG	Sidechain
41	FD	251	ARG	Sidechain
41	FD	262	ARG	Sidechain
41	FD	276	ARG	Sidechain
41	FD	309	ARG	Sidechain
41	FD	318	ARG	Sidechain
41	FD	320	ARG	Sidechain
41	FD	359	ARG	Sidechain
41	FD	391	ARG	Sidechain
41	FD	46	ARG	Sidechain
41	FD	62	ARG	Sidechain
41	FD	86	ARG	Sidechain
42	FE	243	ARG	Sidechain
41	FF	222	TYR	Sidechain
41	FF	226	ASN	Sidechain
41	FF	302	ALA	Peptide
41	FF	320	ARG	Sidechain
42	FG	221	ARG	Sidechain
41	FH	266	PHE	Peptide
42	FI	105	ARG	Sidechain
42	FK	105	ARG	Sidechain
42	FK	121	ARG	Sidechain
42	FK	123	ARG	Sidechain
42	FK	156	ARG	Sidechain
42	FK	2	ARG	Sidechain
42	FK	214	ARG	Sidechain
42	FK	215	ARG	Sidechain
42	FK	221	ARG	Sidechain
42	FK	229	ARG	Sidechain
42	FK	243	ARG	Sidechain
42	FK	264	ARG	Sidechain
42	FK	320	ARG	Sidechain
42	FK	339	ARG	Sidechain
42	FK	390	ARG	Sidechain

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Mol	Chain	Res	Type	Group
42	FK	402	ARG	Sidechain
42	FK	422	ARG	Sidechain
42	FK	64	ARG	Sidechain
42	FK	84	ARG	Sidechain
41	FL	121	ARG	Sidechain
41	FL	2	ARG	Sidechain
41	FL	213	ARG	Sidechain
41	FL	241	ARG	Sidechain
41	FL	251	ARG	Sidechain
41	FL	262	ARG	Sidechain
41	FL	276	ARG	Sidechain
41	FL	282	ARG	Sidechain
41	FL	306	ARG	Sidechain
41	FL	309	ARG	Sidechain
41	FL	318	ARG	Sidechain
41	FL	320	ARG	Sidechain
41	FL	359	ARG	Sidechain
41	FL	380	ARG	Sidechain
41	FL	390	ARG	Sidechain
41	FL	391	ARG	Sidechain
41	FL	46	ARG	Sidechain
41	FL	62	ARG	Sidechain
41	FL	77	ARG	Sidechain
41	FL	86	ARG	Sidechain
42	FM	390	ARG	Sidechain
42	GC	123	ARG	Peptide
42	GC	29	GLY	Peptide
41	GD	121	ARG	Sidechain
41	GD	156	ARG	Sidechain
41	GD	162	ARG	Sidechain
41	GD	2	ARG	Sidechain
41	GD	213	ARG	Sidechain
41	GD	241	ARG	Sidechain
41	GD	251	ARG	Sidechain
41	GD	262	ARG	Sidechain
41	GD	276	ARG	Sidechain
41	GD	282	ARG	Sidechain
41	GD	306	ARG	Sidechain
41	GD	309	ARG	Sidechain
41	GD	318	ARG	Sidechain
41	GD	320	ARG	Sidechain
41	GD	359	ARG	Sidechain

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Mol	Chain	Res	Type	Group
41	GD	380	ARG	Sidechain
41	GD	390	ARG	Sidechain
41	GD	391	ARG	Sidechain
41	GD	46	ARG	Sidechain
41	GD	77	ARG	Sidechain
42	GE	390	ARG	Sidechain
41	GF	276	ARG	Sidechain
41	GF	320	ARG	Sidechain
41	GJ	121	ARG	Sidechain
41	GJ	156	ARG	Sidechain
41	GJ	162	ARG	Sidechain
41	GJ	2	ARG	Sidechain
41	GJ	213	ARG	Sidechain
41	GJ	241	ARG	Sidechain
41	GJ	251	ARG	Sidechain
41	GJ	262	ARG	Sidechain
41	GJ	276	ARG	Sidechain
41	GJ	282	ARG	Sidechain
41	GJ	306	ARG	Sidechain
41	GJ	309	ARG	Sidechain
41	GJ	320	ARG	Sidechain
41	GJ	359	ARG	Sidechain
41	GJ	380	ARG	Sidechain
41	GJ	390	ARG	Sidechain
41	GJ	391	ARG	Sidechain
41	GJ	46	ARG	Sidechain
41	GJ	62	ARG	Sidechain
41	GJ	86	ARG	Sidechain
42	GK	156	ARG	Sidechain
42	GK	223	THR	Peptide
41	GL	251	ARG	Sidechain
42	GM	121	ARG	Sidechain
42	GM	123	ARG	Sidechain
42	GM	156	ARG	Sidechain
42	GM	2	ARG	Sidechain
42	GM	214	ARG	Sidechain
42	GM	229	ARG	Sidechain
42	GM	243	ARG	Sidechain
42	GM	264	ARG	Sidechain
42	GM	308	ARG	Sidechain
42	GM	320	ARG	Sidechain
42	GM	373	ARG	Sidechain

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Mol	Chain	Res	Type	Group
42	GM	390	ARG	Sidechain
42	GM	64	ARG	Sidechain
42	GM	79	ARG	Sidechain
42	GM	84	ARG	Sidechain
41	HB	107	THR	Peptide
41	HB	213	ARG	Peptide
42	HC	105	ARG	Sidechain
42	HC	123	ARG	Sidechain
42	HC	214	ARG	Sidechain
42	HC	215	ARG	Sidechain
42	HC	221	ARG	Sidechain
42	HC	243	ARG	Sidechain
42	HC	264	ARG	Sidechain
42	HC	308	ARG	Sidechain
42	HC	320	ARG	Sidechain
42	HC	339	ARG	Sidechain
42	HC	373	ARG	Sidechain
42	HC	390	ARG	Sidechain
42	HC	402	ARG	Sidechain
42	HC	422	ARG	Sidechain
42	HC	64	ARG	Sidechain
42	HC	79	ARG	Sidechain
42	HC	84	ARG	Sidechain
41	HD	121	ARG	Sidechain
41	HD	156	ARG	Sidechain
41	HD	162	ARG	Sidechain
41	HD	2	ARG	Sidechain
41	HD	213	ARG	Sidechain
41	HD	241	ARG	Sidechain
41	HD	262	ARG	Sidechain
41	HD	276	ARG	Sidechain
41	HD	282	ARG	Sidechain
41	HD	309	ARG	Sidechain
41	HD	318	ARG	Sidechain
41	HD	320	ARG	Sidechain
41	HD	46	ARG	Sidechain
41	HD	62	ARG	Sidechain
41	HD	86	ARG	Sidechain
41	HF	86	ARG	Sidechain
42	HG	105	ARG	Sidechain
42	HG	121	ARG	Sidechain
42	HG	123	ARG	Sidechain

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Mol	Chain	Res	Type	Group
42	HG	214	ARG	Sidechain
42	HG	229	ARG	Sidechain
42	HG	243	ARG	Sidechain
42	HG	320	ARG	Sidechain
42	HG	339	ARG	Sidechain
42	HG	373	ARG	Sidechain
42	HG	390	ARG	Sidechain
42	HG	402	ARG	Sidechain
42	HG	422	ARG	Sidechain
42	HG	64	ARG	Sidechain
42	HG	79	ARG	Sidechain
42	HG	84	ARG	Sidechain
41	HH	11	GLN	Sidechain,Peptide
42	HI	123	ARG	Sidechain
42	HI	156	ARG	Sidechain
42	HI	2	ARG	Sidechain
42	HI	214	ARG	Sidechain
42	HI	215	ARG	Sidechain
42	HI	221	ARG	Sidechain
42	HI	229	ARG	Sidechain
42	HI	243	ARG	Sidechain
42	HI	264	ARG	Sidechain
42	HI	308	ARG	Sidechain
42	HI	320	ARG	Sidechain
42	HI	339	ARG	Sidechain
42	HI	373	ARG	Sidechain
42	HI	390	ARG	Sidechain
42	HI	422	ARG	Sidechain
42	HI	79	ARG	Sidechain
42	HI	84	ARG	Sidechain
41	HJ	121	ARG	Sidechain
41	HJ	156	ARG	Sidechain
41	HJ	213	ARG	Sidechain
41	HJ	241	ARG	Sidechain
41	HJ	251	ARG	Sidechain
41	HJ	262	ARG	Sidechain
41	HJ	276	ARG	Sidechain
41	HJ	306	ARG	Sidechain
41	HJ	309	ARG	Sidechain
41	HJ	318	ARG	Sidechain
41	HJ	320	ARG	Sidechain
41	HJ	359	ARG	Sidechain

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Mol	Chain	Res	Type	Group
41	HJ	380	ARG	Sidechain
41	HJ	391	ARG	Sidechain
41	HJ	46	ARG	Sidechain
41	HJ	62	ARG	Sidechain
41	HJ	77	ARG	Sidechain
42	HK	109	THR	Peptide
41	HL	161	ASP	Peptide
41	HL	251	ARG	Sidechain
42	HM	101	ASN	Sidechain
42	HM	105	ARG	Sidechain
42	HM	121	ARG	Sidechain
42	HM	123	ARG	Sidechain
42	HM	156	ARG	Sidechain
42	HM	2	ARG	Sidechain
42	HM	214	ARG	Sidechain
42	HM	215	ARG	Sidechain
42	HM	221	ARG	Sidechain
42	HM	229	ARG	Sidechain
42	HM	243	ARG	Sidechain
42	HM	264	ARG	Sidechain
42	HM	320	ARG	Sidechain
42	HM	339	ARG	Sidechain
42	HM	373	ARG	Sidechain
42	HM	390	ARG	Sidechain
42	HM	402	ARG	Sidechain
42	HM	79	ARG	Sidechain
42	HM	84	ARG	Sidechain
42	IC	338	LYS	Peptide
41	ID	380	ARG	Sidechain
42	IE	105	ARG	Sidechain
42	IE	121	ARG	Sidechain
42	IE	123	ARG	Sidechain
42	IE	156	ARG	Sidechain
42	IE	2	ARG	Sidechain
42	IE	214	ARG	Sidechain
42	IE	215	ARG	Sidechain
42	IE	221	ARG	Sidechain
42	IE	229	ARG	Sidechain
42	IE	308	ARG	Sidechain
42	IE	320	ARG	Sidechain
42	IE	339	ARG	Sidechain
42	IE	373	ARG	Sidechain

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Mol	Chain	Res	Type	Group
42	IE	390	ARG	Sidechain
42	IE	402	ARG	Sidechain
42	IE	422	ARG	Sidechain
42	IE	79	ARG	Sidechain
41	IF	282	ARG	Sidechain
42	IG	121	ARG	Sidechain
41	IJ	391	ARG	Sidechain
41	IJ	53	GLU	Peptide
42	IK	338	LYS	Peptide
41	IL	359	ARG	Sidechain
42	IM	282	TYR	Peptide
41	IN	156	ARG	Sidechain
41	IN	162	ARG	Sidechain
41	IN	213	ARG	Sidechain
41	IN	241	ARG	Sidechain
41	IN	251	ARG	Sidechain
41	IN	262	ARG	Sidechain
41	IN	282	ARG	Sidechain
41	IN	306	ARG	Sidechain
41	IN	309	ARG	Sidechain
41	IN	318	ARG	Sidechain
41	IN	320	ARG	Sidechain
41	IN	359	ARG	Sidechain
41	IN	380	ARG	Sidechain
41	IN	391	ARG	Sidechain
41	IN	86	ARG	Sidechain
42	JC	123	ARG	Sidechain
42	JC	64	ARG	Sidechain
41	JD	77	ARG	Sidechain
41	JD	86	ARG	Sidechain
42	JI	105	ARG	Sidechain
42	JI	121	ARG	Sidechain
42	JI	251	ASP	Peptide
42	JI	373	ARG	Sidechain
42	JK	121	ARG	Sidechain
42	JK	123	ARG	Sidechain
42	JK	156	ARG	Sidechain
42	JK	214	ARG	Sidechain
42	JK	215	ARG	Sidechain
42	JK	221	ARG	Sidechain
42	JK	229	ARG	Sidechain
42	JK	243	ARG	Sidechain

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Mol	Chain	Res	Type	Group
42	JK	264	ARG	Sidechain
42	JK	308	ARG	Sidechain
42	JK	320	ARG	Sidechain
42	JK	339	ARG	Sidechain
42	JK	373	ARG	Sidechain
42	JK	390	ARG	Sidechain
42	JK	422	ARG	Sidechain
42	JK	79	ARG	Sidechain
42	JK	84	ARG	Sidechain
41	JL	121	ARG	Sidechain
41	JL	156	ARG	Sidechain
41	JL	162	ARG	Sidechain
41	JL	2	ARG	Sidechain
41	JL	213	ARG	Sidechain
41	JL	241	ARG	Sidechain
41	JL	251	ARG	Sidechain
41	JL	276	ARG	Sidechain
41	JL	306	ARG	Sidechain
41	JL	309	ARG	Sidechain
41	JL	318	ARG	Sidechain
41	JL	320	ARG	Sidechain
41	JL	380	ARG	Sidechain
41	JL	390	ARG	Sidechain
41	JL	391	ARG	Sidechain
41	JL	46	ARG	Sidechain
41	JL	77	ARG	Sidechain
41	JL	86	ARG	Sidechain
42	JM	121	ARG	Sidechain
42	JM	123	ARG	Sidechain
42	JM	156	ARG	Sidechain
42	JM	2	ARG	Sidechain
42	JM	214	ARG	Sidechain
42	JM	221	ARG	Sidechain
42	JM	243	ARG	Sidechain
42	JM	264	ARG	Sidechain
42	JM	308	ARG	Sidechain
42	JM	339	ARG	Sidechain
42	JM	373	ARG	Sidechain
42	JM	390	ARG	Sidechain
42	JM	402	ARG	Sidechain
42	JM	422	ARG	Sidechain
42	JM	79	ARG	Sidechain

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Mol	Chain	Res	Type	Group
42	JM	84	ARG	Sidechain
41	KD	68	LEU	Peptide
41	KD	73	MET	Peptide
41	KJ	320	ARG	Sidechain
42	KM	105	ARG	Sidechain
42	KM	121	ARG	Sidechain
42	KM	123	ARG	Sidechain
42	KM	2	ARG	Sidechain
42	KM	215	ARG	Sidechain
42	KM	221	ARG	Sidechain
42	KM	229	ARG	Sidechain
42	KM	243	ARG	Sidechain
42	KM	264	ARG	Sidechain
42	KM	308	ARG	Sidechain
42	KM	320	ARG	Sidechain
42	KM	339	ARG	Sidechain
42	KM	373	ARG	Sidechain
42	KM	390	ARG	Sidechain
42	KM	402	ARG	Sidechain
42	KM	79	ARG	Sidechain
41	KN	359	ARG	Sidechain
41	LD	156	ARG	Sidechain
41	LD	162	ARG	Sidechain
41	LD	2	ARG	Sidechain
41	LD	213	ARG	Sidechain
41	LD	251	ARG	Sidechain
41	LD	276	ARG	Sidechain
41	LD	282	ARG	Sidechain
41	LD	309	ARG	Sidechain
41	LD	318	ARG	Sidechain
41	LD	359	ARG	Sidechain
41	LD	380	ARG	Sidechain
41	LD	390	ARG	Sidechain
41	LD	46	ARG	Sidechain
41	LD	62	ARG	Sidechain
41	LD	77	ARG	Sidechain
42	LI	2	ARG	Sidechain
41	LJ	77	ARG	Sidechain
42	LK	320	ARG	Sidechain
42	MC	390	ARG	Sidechain
41	MD	156	ARG	Sidechain
41	MD	162	ARG	Sidechain

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Mol	Chain	Res	Type	Group
41	MD	2	ARG	Sidechain
41	MD	213	ARG	Sidechain
41	MD	241	ARG	Sidechain
41	MD	262	ARG	Sidechain
41	MD	282	ARG	Sidechain
41	MD	306	ARG	Sidechain
41	MD	309	ARG	Sidechain
41	MD	318	ARG	Sidechain
41	MD	320	ARG	Sidechain
41	MD	359	ARG	Sidechain
41	MD	380	ARG	Sidechain
41	MD	391	ARG	Sidechain
41	MD	46	ARG	Sidechain
41	MD	62	ARG	Sidechain
41	MD	77	ARG	Sidechain
41	MD	86	ARG	Sidechain
41	MF	121	ARG	Sidechain
41	MF	156	ARG	Sidechain
41	MF	162	ARG	Sidechain
41	MF	2	ARG	Sidechain
41	MF	213	ARG	Sidechain
41	MF	241	ARG	Sidechain
41	MF	251	ARG	Sidechain
41	MF	262	ARG	Sidechain
41	MF	282	ARG	Sidechain
41	MF	306	ARG	Sidechain
41	MF	309	ARG	Sidechain
41	MF	318	ARG	Sidechain
41	MF	320	ARG	Sidechain
41	MF	359	ARG	Sidechain
41	MF	380	ARG	Sidechain
41	MF	390	ARG	Sidechain
41	MF	391	ARG	Sidechain
41	MF	46	ARG	Sidechain
41	MF	62	ARG	Sidechain
41	MF	77	ARG	Sidechain
41	MF	86	ARG	Sidechain
42	MG	105	ARG	Sidechain
42	MG	121	ARG	Sidechain
42	MG	123	ARG	Sidechain
42	MG	156	ARG	Sidechain
42	MG	2	ARG	Sidechain

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Mol	Chain	Res	Type	Group
42	MG	214	ARG	Sidechain
42	MG	221	ARG	Sidechain
42	MG	229	ARG	Sidechain
42	MG	243	ARG	Sidechain
42	MG	264	ARG	Sidechain
42	MG	308	ARG	Sidechain
42	MG	320	ARG	Sidechain
42	MG	373	ARG	Sidechain
42	MG	390	ARG	Sidechain
42	MG	402	ARG	Sidechain
42	MG	422	ARG	Sidechain
42	MG	79	ARG	Sidechain
41	MH	380	ARG	Sidechain
41	MJ	265	PHE	Peptide
41	ML	276	ARG	Sidechain
42	MM	243	ARG	Sidechain
42	MM	422	ARG	Sidechain
41	MN	121	ARG	Sidechain
41	MN	156	ARG	Sidechain
41	MN	162	ARG	Sidechain
41	MN	2	ARG	Sidechain
41	MN	241	ARG	Sidechain
41	MN	251	ARG	Sidechain
41	MN	262	ARG	Sidechain
41	MN	276	ARG	Sidechain
41	MN	282	ARG	Sidechain
41	MN	306	ARG	Sidechain
41	MN	309	ARG	Sidechain
41	MN	318	ARG	Sidechain
41	MN	359	ARG	Sidechain
41	MN	390	ARG	Sidechain
41	MN	391	ARG	Sidechain
41	MN	46	ARG	Sidechain
41	MN	62	ARG	Sidechain
41	MN	77	ARG	Sidechain
41	MN	86	ARG	Sidechain
42	NA	105	ARG	Sidechain
42	NA	123	ARG	Sidechain
42	NA	156	ARG	Sidechain
42	NA	2	ARG	Sidechain
42	NA	215	ARG	Sidechain
42	NA	229	ARG	Sidechain

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Mol	Chain	Res	Type	Group
42	NA	243	ARG	Sidechain
42	NA	264	ARG	Sidechain
42	NA	308	ARG	Sidechain
42	NA	339	ARG	Sidechain
42	NA	373	ARG	Sidechain
42	NA	390	ARG	Sidechain
42	NA	402	ARG	Sidechain
42	NA	422	ARG	Sidechain
42	NA	84	ARG	Sidechain
41	NB	121	ARG	Sidechain
41	NB	156	ARG	Sidechain
41	NB	162	ARG	Sidechain
41	NB	2	ARG	Sidechain
41	NB	213	ARG	Sidechain
41	NB	241	ARG	Sidechain
41	NB	251	ARG	Sidechain
41	NB	262	ARG	Sidechain
41	NB	276	ARG	Sidechain
41	NB	282	ARG	Sidechain
41	NB	306	ARG	Sidechain
41	NB	309	ARG	Sidechain
41	NB	320	ARG	Sidechain
41	NB	380	ARG	Sidechain
41	NB	390	ARG	Sidechain
41	NB	391	ARG	Sidechain
41	NB	77	ARG	Sidechain
41	NB	86	ARG	Sidechain
42	NC	121	ARG	Sidechain
42	NC	123	ARG	Sidechain
42	NC	156	ARG	Sidechain
42	NC	2	ARG	Sidechain
42	NC	214	ARG	Sidechain
42	NC	215	ARG	Sidechain
42	NC	243	ARG	Sidechain
42	NC	264	ARG	Sidechain
42	NC	308	ARG	Sidechain
42	NC	320	ARG	Sidechain
42	NC	373	ARG	Sidechain
42	NC	390	ARG	Sidechain
42	NC	402	ARG	Sidechain
42	NC	422	ARG	Sidechain
42	NC	84	ARG	Sidechain

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Mol	Chain	Res	Type	Group
41	ND	156	ARG	Sidechain
41	ND	162	ARG	Sidechain
41	ND	213	ARG	Sidechain
41	ND	276	ARG	Sidechain
41	ND	282	ARG	Sidechain
41	ND	306	ARG	Sidechain
41	ND	309	ARG	Sidechain
41	ND	320	ARG	Sidechain
41	ND	380	ARG	Sidechain
41	ND	390	ARG	Sidechain
41	ND	391	ARG	Sidechain
41	ND	46	ARG	Sidechain
41	ND	62	ARG	Sidechain
41	ND	77	ARG	Sidechain
41	ND	86	ARG	Sidechain
42	NE	31	GLN	Peptide
41	NF	121	ARG	Sidechain
41	NF	156	ARG	Sidechain
41	NF	162	ARG	Sidechain
41	NF	213	ARG	Sidechain
41	NF	241	ARG	Sidechain
41	NF	251	ARG	Sidechain
41	NF	262	ARG	Sidechain
41	NF	282	ARG	Sidechain
41	NF	306	ARG	Sidechain
41	NF	309	ARG	Sidechain
41	NF	320	ARG	Sidechain
41	NF	359	ARG	Sidechain
41	NF	390	ARG	Sidechain
41	NF	391	ARG	Sidechain
41	NF	46	ARG	Sidechain
41	NF	77	ARG	Sidechain
41	NF	86	ARG	Sidechain
42	NG	123	ARG	Sidechain
42	NG	156	ARG	Sidechain
42	NG	214	ARG	Sidechain
42	NG	215	ARG	Sidechain
42	NG	221	ARG	Sidechain
42	NG	229	ARG	Sidechain
42	NG	243	ARG	Sidechain
42	NG	339	ARG	Sidechain
42	NG	373	ARG	Sidechain

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Mol	Chain	Res	Type	Group
42	NG	390	ARG	Sidechain
42	NG	422	ARG	Sidechain
42	NG	64	ARG	Sidechain
42	NG	84	ARG	Sidechain
41	NH	121	ARG	Sidechain
41	NH	156	ARG	Sidechain
41	NH	2	ARG	Sidechain
41	NH	213	ARG	Sidechain
41	NH	241	ARG	Sidechain
41	NH	251	ARG	Sidechain
41	NH	276	ARG	Sidechain
41	NH	282	ARG	Sidechain
41	NH	306	ARG	Sidechain
41	NH	309	ARG	Sidechain
41	NH	318	ARG	Sidechain
41	NH	320	ARG	Sidechain
41	NH	359	ARG	Sidechain
41	NH	380	ARG	Sidechain
41	NH	390	ARG	Sidechain
41	NH	391	ARG	Sidechain
41	NH	46	ARG	Sidechain
41	NH	62	ARG	Sidechain
41	NH	77	ARG	Sidechain
41	NH	86	ARG	Sidechain
42	NI	2	ARG	Sidechain
42	NI	214	ARG	Sidechain
42	NI	215	ARG	Sidechain
42	NI	229	ARG	Sidechain
42	NI	308	ARG	Sidechain
42	NI	320	ARG	Sidechain
42	NI	373	ARG	Sidechain
42	NI	390	ARG	Sidechain
42	NI	402	ARG	Sidechain
42	NI	422	ARG	Sidechain
42	NI	79	ARG	Sidechain
42	NI	84	ARG	Sidechain
41	NJ	251	ARG	Sidechain
42	NK	105	ARG	Sidechain
42	NK	121	ARG	Sidechain
42	NK	123	ARG	Sidechain
42	NK	156	ARG	Sidechain
42	NK	2	ARG	Sidechain

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Mol	Chain	Res	Type	Group
42	NK	214	ARG	Sidechain
42	NK	221	ARG	Sidechain
42	NK	229	ARG	Sidechain
42	NK	243	ARG	Sidechain
42	NK	264	ARG	Sidechain
42	NK	308	ARG	Sidechain
42	NK	320	ARG	Sidechain
42	NK	339	ARG	Sidechain
42	NK	373	ARG	Sidechain
42	NK	390	ARG	Sidechain
42	NK	422	ARG	Sidechain
42	NK	84	ARG	Sidechain
41	NL	293	MET	Peptide
42	OA	324	VAL	Peptide
41	OB	156	ARG	Sidechain
41	OB	162	ARG	Sidechain
41	OB	213	ARG	Sidechain
41	OB	251	ARG	Sidechain
41	OB	262	ARG	Sidechain
41	OB	276	ARG	Sidechain
41	OB	282	ARG	Sidechain
41	OB	306	ARG	Sidechain
41	OB	309	ARG	Sidechain
41	OB	320	ARG	Sidechain
41	OB	380	ARG	Sidechain
41	OB	390	ARG	Sidechain
41	OB	391	ARG	Sidechain
41	OB	46	ARG	Sidechain
41	OB	62	ARG	Sidechain
41	OB	77	ARG	Sidechain
41	OB	86	ARG	Sidechain
42	OC	112	LYS	Peptide
41	OD	361	LEU	Peptide
42	OE	215	ARG	Sidechain
41	OF	77	ARG	Sidechain
42	OG	105	ARG	Sidechain
42	OG	121	ARG	Sidechain
42	OG	123	ARG	Sidechain
42	OG	156	ARG	Sidechain
42	OG	2	ARG	Sidechain
42	OG	214	ARG	Sidechain
42	OG	215	ARG	Sidechain

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Mol	Chain	Res	Type	Group
42	OG	221	ARG	Sidechain
42	OG	229	ARG	Sidechain
42	OG	243	ARG	Sidechain
42	OG	264	ARG	Sidechain
42	OG	308	ARG	Sidechain
42	OG	320	ARG	Sidechain
42	OG	339	ARG	Sidechain
42	OG	373	ARG	Sidechain
42	OG	390	ARG	Sidechain
42	OG	402	ARG	Sidechain
42	OG	422	ARG	Sidechain
42	OG	64	ARG	Sidechain
42	OG	79	ARG	Sidechain
42	OG	84	ARG	Sidechain
41	OH	121	ARG	Sidechain
41	OH	156	ARG	Sidechain
41	OH	162	ARG	Sidechain
41	OH	2	ARG	Sidechain
41	OH	213	ARG	Sidechain
41	OH	241	ARG	Sidechain
41	OH	251	ARG	Sidechain
41	OH	262	ARG	Sidechain
41	OH	276	ARG	Sidechain
41	OH	282	ARG	Sidechain
41	OH	306	ARG	Sidechain
41	OH	320	ARG	Sidechain
41	OH	359	ARG	Sidechain
41	OH	390	ARG	Sidechain
41	OH	391	ARG	Sidechain
41	OH	46	ARG	Sidechain
41	OH	62	ARG	Sidechain
41	OH	77	ARG	Sidechain
41	OH	86	ARG	Sidechain
41	OJ	121	ARG	Sidechain
41	OJ	156	ARG	Sidechain
41	OJ	162	ARG	Sidechain
41	OJ	2	ARG	Sidechain
41	OJ	241	ARG	Sidechain
41	OJ	251	ARG	Sidechain
41	OJ	276	ARG	Sidechain
41	OJ	282	ARG	Sidechain
41	OJ	309	ARG	Sidechain

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Mol	Chain	Res	Type	Group
41	OJ	320	ARG	Sidechain
41	OJ	359	ARG	Sidechain
41	OJ	380	ARG	Sidechain
41	OJ	391	ARG	Sidechain
41	OJ	46	ARG	Sidechain
41	OJ	62	ARG	Sidechain
41	OJ	77	ARG	Sidechain
41	OL	265	PHE	Peptide
41	OL	303	CYS	Peptide
41	OL	391	ARG	Sidechain
42	PA	121	ARG	Sidechain
42	PA	156	ARG	Sidechain
42	PA	2	ARG	Sidechain
42	PA	214	ARG	Sidechain
42	PA	215	ARG	Sidechain
42	PA	221	ARG	Sidechain
42	PA	229	ARG	Sidechain
42	PA	243	ARG	Sidechain
42	PA	308	ARG	Sidechain
42	PA	320	ARG	Sidechain
42	PA	339	ARG	Sidechain
42	PA	373	ARG	Sidechain
42	PA	390	ARG	Sidechain
42	PA	79	ARG	Sidechain
42	PA	84	ARG	Sidechain
41	PB	156	ARG	Sidechain
41	PB	162	ARG	Sidechain
41	PB	2	ARG	Sidechain
41	PB	213	ARG	Sidechain
41	PB	241	ARG	Sidechain
41	PB	251	ARG	Sidechain
41	PB	262	ARG	Sidechain
41	PB	276	ARG	Sidechain
41	PB	306	ARG	Sidechain
41	PB	309	ARG	Sidechain
41	PB	318	ARG	Sidechain
41	PB	320	ARG	Sidechain
41	PB	359	ARG	Sidechain
41	PB	380	ARG	Sidechain
41	PB	390	ARG	Sidechain
41	PB	46	ARG	Sidechain
41	PB	62	ARG	Sidechain

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Mol	Chain	Res	Type	Group
41	PB	77	ARG	Sidechain
42	PC	105	ARG	Sidechain
42	PC	121	ARG	Sidechain
42	PC	123	ARG	Sidechain
42	PC	156	ARG	Sidechain
42	PC	2	ARG	Sidechain
42	PC	214	ARG	Sidechain
42	PC	215	ARG	Sidechain
42	PC	221	ARG	Sidechain
42	PC	229	ARG	Sidechain
42	PC	243	ARG	Sidechain
42	PC	264	ARG	Sidechain
42	PC	320	ARG	Sidechain
42	PC	339	ARG	Sidechain
42	PC	373	ARG	Sidechain
42	PC	390	ARG	Sidechain
42	PC	79	ARG	Sidechain
42	PC	84	ARG	Sidechain
41	PD	121	ARG	Sidechain
41	PD	156	ARG	Sidechain
41	PD	162	ARG	Sidechain
41	PD	2	ARG	Sidechain
41	PD	213	ARG	Sidechain
41	PD	241	ARG	Sidechain
41	PD	251	ARG	Sidechain
41	PD	262	ARG	Sidechain
41	PD	276	ARG	Sidechain
41	PD	282	ARG	Sidechain
41	PD	306	ARG	Sidechain
41	PD	309	ARG	Sidechain
41	PD	318	ARG	Sidechain
41	PD	320	ARG	Sidechain
41	PD	359	ARG	Sidechain
41	PD	380	ARG	Sidechain
41	PD	390	ARG	Sidechain
41	PD	391	ARG	Sidechain
41	PD	46	ARG	Sidechain
41	PD	62	ARG	Sidechain
41	PD	86	ARG	Sidechain
42	PE	105	ARG	Sidechain
42	PE	121	ARG	Sidechain
42	PE	123	ARG	Sidechain

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Mol	Chain	Res	Type	Group
42	PE	156	ARG	Sidechain
42	PE	2	ARG	Sidechain
42	PE	215	ARG	Sidechain
42	PE	221	ARG	Sidechain
42	PE	229	ARG	Sidechain
42	PE	264	ARG	Sidechain
42	PE	308	ARG	Sidechain
42	PE	320	ARG	Sidechain
42	PE	339	ARG	Sidechain
42	PE	373	ARG	Sidechain
42	PE	390	ARG	Sidechain
42	PE	402	ARG	Sidechain
42	PE	79	ARG	Sidechain
42	PE	84	ARG	Sidechain
41	PF	121	ARG	Sidechain
41	PF	156	ARG	Sidechain
41	PF	162	ARG	Sidechain
41	PF	2	ARG	Sidechain
41	PF	213	ARG	Sidechain
41	PF	241	ARG	Sidechain
41	PF	251	ARG	Sidechain
41	PF	262	ARG	Sidechain
41	PF	276	ARG	Sidechain
41	PF	306	ARG	Sidechain
41	PF	309	ARG	Sidechain
41	PF	380	ARG	Sidechain
41	PF	390	ARG	Sidechain
41	PF	46	ARG	Sidechain
41	PF	77	ARG	Sidechain
42	PG	105	ARG	Sidechain
42	PG	121	ARG	Sidechain
42	PG	123	ARG	Sidechain
42	PG	156	ARG	Sidechain
42	PG	2	ARG	Sidechain
42	PG	215	ARG	Sidechain
42	PG	221	ARG	Sidechain
42	PG	229	ARG	Sidechain
42	PG	243	ARG	Sidechain
42	PG	264	ARG	Sidechain
42	PG	308	ARG	Sidechain
42	PG	339	ARG	Sidechain
42	PG	373	ARG	Sidechain

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Mol	Chain	Res	Type	Group
42	PG	390	ARG	Sidechain
42	PG	402	ARG	Sidechain
42	PG	422	ARG	Sidechain
42	PG	79	ARG	Sidechain
42	PG	84	ARG	Sidechain
41	PH	156	ARG	Sidechain
41	PH	162	ARG	Sidechain
41	PH	2	ARG	Sidechain
41	PH	213	ARG	Sidechain
41	PH	241	ARG	Sidechain
41	PH	262	ARG	Sidechain
41	PH	276	ARG	Sidechain
41	PH	282	ARG	Sidechain
41	PH	306	ARG	Sidechain
41	PH	309	ARG	Sidechain
41	PH	318	ARG	Sidechain
41	PH	320	ARG	Sidechain
41	PH	359	ARG	Sidechain
41	PH	380	ARG	Sidechain
41	PH	390	ARG	Sidechain
41	PH	46	ARG	Sidechain
41	PH	62	ARG	Sidechain
41	PH	77	ARG	Sidechain
41	PH	86	ARG	Sidechain
42	PI	121	ARG	Sidechain
42	PI	123	ARG	Sidechain
42	PI	2	ARG	Sidechain
42	PI	214	ARG	Sidechain
42	PI	215	ARG	Sidechain
42	PI	221	ARG	Sidechain
42	PI	229	ARG	Sidechain
42	PI	243	ARG	Sidechain
42	PI	264	ARG	Sidechain
42	PI	320	ARG	Sidechain
42	PI	339	ARG	Sidechain
42	PI	390	ARG	Sidechain
42	PI	402	ARG	Sidechain
42	PI	422	ARG	Sidechain
42	PI	79	ARG	Sidechain
42	PI	84	ARG	Sidechain
41	PJ	121	ARG	Sidechain
41	PJ	156	ARG	Sidechain

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Mol	Chain	Res	Type	Group
41	PJ	162	ARG	Sidechain
41	PJ	2	ARG	Sidechain
41	PJ	213	ARG	Sidechain
41	PJ	241	ARG	Sidechain
41	PJ	251	ARG	Sidechain
41	PJ	262	ARG	Sidechain
41	PJ	276	ARG	Sidechain
41	PJ	282	ARG	Sidechain
41	PJ	306	ARG	Sidechain
41	PJ	320	ARG	Sidechain
41	PJ	359	ARG	Sidechain
41	PJ	380	ARG	Sidechain
41	PJ	390	ARG	Sidechain
41	PJ	62	ARG	Sidechain
41	PJ	77	ARG	Sidechain
41	PJ	86	ARG	Sidechain
42	PK	105	ARG	Sidechain
42	PK	123	ARG	Sidechain
42	PK	156	ARG	Sidechain
42	PK	2	ARG	Sidechain
42	PK	214	ARG	Sidechain
42	PK	215	ARG	Sidechain
42	PK	221	ARG	Sidechain
42	PK	229	ARG	Sidechain
42	PK	243	ARG	Sidechain
42	PK	264	ARG	Sidechain
42	PK	308	ARG	Sidechain
42	PK	320	ARG	Sidechain
42	PK	339	ARG	Sidechain
42	PK	373	ARG	Sidechain
42	PK	390	ARG	Sidechain
42	PK	402	ARG	Sidechain
42	PK	422	ARG	Sidechain
42	PK	64	ARG	Sidechain
42	PK	79	ARG	Sidechain
42	PK	84	ARG	Sidechain
41	PL	121	ARG	Sidechain
41	PL	156	ARG	Sidechain
41	PL	162	ARG	Sidechain
41	PL	2	ARG	Sidechain
41	PL	213	ARG	Sidechain
41	PL	241	ARG	Sidechain

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Mol	Chain	Res	Type	Group
41	PL	262	ARG	Sidechain
41	PL	276	ARG	Sidechain
41	PL	306	ARG	Sidechain
41	PL	309	ARG	Sidechain
41	PL	320	ARG	Sidechain
41	PL	359	ARG	Sidechain
41	PL	380	ARG	Sidechain
41	PL	390	ARG	Sidechain
41	PL	46	ARG	Sidechain
41	PL	62	ARG	Sidechain
41	PL	86	ARG	Sidechain
41	QB	88	ASP	Peptide
42	QC	214	ARG	Sidechain
41	QD	248	ALA	Peptide
42	QE	14	VAL	Peptide
42	QE	2	ARG	Sidechain
41	QF	399	THR	Peptide
41	QH	121	ARG	Sidechain
41	QH	156	ARG	Sidechain
41	QH	162	ARG	Sidechain
41	QH	2	ARG	Sidechain
41	QH	213	ARG	Sidechain
41	QH	241	ARG	Sidechain
41	QH	262	ARG	Sidechain
41	QH	276	ARG	Sidechain
41	QH	282	ARG	Sidechain
41	QH	306	ARG	Sidechain
41	QH	309	ARG	Sidechain
41	QH	318	ARG	Sidechain
41	QH	320	ARG	Sidechain
41	QH	359	ARG	Sidechain
41	QH	380	ARG	Sidechain
41	QH	390	ARG	Sidechain
41	QH	391	ARG	Sidechain
41	QH	46	ARG	Sidechain
41	QH	62	ARG	Sidechain
41	QH	77	ARG	Sidechain
41	QH	86	ARG	Sidechain
42	QI	105	ARG	Sidechain
42	QI	121	ARG	Sidechain
42	QI	123	ARG	Sidechain
42	QI	2	ARG	Sidechain

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Mol	Chain	Res	Type	Group
42	QI	214	ARG	Sidechain
42	QI	215	ARG	Sidechain
42	QI	221	ARG	Sidechain
42	QI	243	ARG	Sidechain
42	QI	264	ARG	Sidechain
42	QI	308	ARG	Sidechain
42	QI	320	ARG	Sidechain
42	QI	339	ARG	Sidechain
42	QI	373	ARG	Sidechain
42	QI	390	ARG	Sidechain
42	QI	402	ARG	Sidechain
42	QI	422	ARG	Sidechain
42	QI	64	ARG	Sidechain
42	QI	79	ARG	Sidechain
42	QI	84	ARG	Sidechain
41	QJ	156	ARG	Sidechain
41	QJ	162	ARG	Sidechain
41	QJ	2	ARG	Sidechain
41	QJ	213	ARG	Sidechain
41	QJ	241	ARG	Sidechain
41	QJ	251	ARG	Sidechain
41	QJ	262	ARG	Sidechain
41	QJ	276	ARG	Sidechain
41	QJ	309	ARG	Sidechain
41	QJ	318	ARG	Sidechain
41	QJ	320	ARG	Sidechain
41	QJ	380	ARG	Sidechain
41	QJ	390	ARG	Sidechain
41	QJ	391	ARG	Sidechain
41	QJ	46	ARG	Sidechain
41	QJ	77	ARG	Sidechain
42	QK	105	ARG	Sidechain
42	QK	123	ARG	Sidechain
42	QK	156	ARG	Sidechain
42	QK	2	ARG	Sidechain
42	QK	214	ARG	Sidechain
42	QK	215	ARG	Sidechain
42	QK	221	ARG	Sidechain
42	QK	229	ARG	Sidechain
42	QK	243	ARG	Sidechain
42	QK	264	ARG	Sidechain
42	QK	308	ARG	Sidechain

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Mol	Chain	Res	Type	Group
42	QK	339	ARG	Sidechain
42	QK	373	ARG	Sidechain
42	QK	390	ARG	Sidechain
42	QK	402	ARG	Sidechain
42	QK	422	ARG	Sidechain
42	QK	64	ARG	Sidechain
42	QK	79	ARG	Sidechain
42	QK	84	ARG	Sidechain
41	QL	121	ARG	Sidechain
41	QL	156	ARG	Sidechain
41	QL	2	ARG	Sidechain
41	QL	213	ARG	Sidechain
41	QL	241	ARG	Sidechain
41	QL	251	ARG	Sidechain
41	QL	282	ARG	Sidechain
41	QL	306	ARG	Sidechain
41	QL	309	ARG	Sidechain
41	QL	318	ARG	Sidechain
41	QL	320	ARG	Sidechain
41	QL	359	ARG	Sidechain
41	QL	380	ARG	Sidechain
41	QL	390	ARG	Sidechain
41	QL	391	ARG	Sidechain
41	QL	62	ARG	Sidechain
41	QL	77	ARG	Sidechain
41	QL	86	ARG	Sidechain
41	RB	161	ASP	Peptide
41	RB	77	ARG	Sidechain
41	RD	121	ARG	Sidechain
41	RD	156	ARG	Sidechain
41	RD	162	ARG	Sidechain
41	RD	2	ARG	Sidechain
41	RD	213	ARG	Sidechain
41	RD	241	ARG	Sidechain
41	RD	251	ARG	Sidechain
41	RD	262	ARG	Sidechain
41	RD	276	ARG	Sidechain
41	RD	282	ARG	Sidechain
41	RD	306	ARG	Sidechain
41	RD	309	ARG	Sidechain
41	RD	318	ARG	Sidechain
41	RD	320	ARG	Sidechain

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Mol	Chain	Res	Type	Group
41	RD	359	ARG	Sidechain
41	RD	380	ARG	Sidechain
41	RD	390	ARG	Sidechain
41	RD	46	ARG	Sidechain
41	RD	62	ARG	Sidechain
41	RD	77	ARG	Sidechain
41	RD	86	ARG	Sidechain
41	RF	121	ARG	Sidechain
41	RF	156	ARG	Sidechain
41	RF	2	ARG	Sidechain
41	RF	213	ARG	Sidechain
41	RF	241	ARG	Sidechain
41	RF	251	ARG	Sidechain
41	RF	262	ARG	Sidechain
41	RF	276	ARG	Sidechain
41	RF	282	ARG	Sidechain
41	RF	306	ARG	Sidechain
41	RF	359	ARG	Sidechain
41	RF	380	ARG	Sidechain
41	RF	390	ARG	Sidechain
41	RF	46	ARG	Sidechain
41	RF	62	ARG	Sidechain
41	RH	105	HIS	Peptide
42	RI	84	ARG	Sidechain
41	RJ	121	ARG	Sidechain
41	RJ	156	ARG	Sidechain
41	RJ	162	ARG	Sidechain
41	RJ	2	ARG	Sidechain
41	RJ	213	ARG	Sidechain
41	RJ	251	ARG	Sidechain
41	RJ	262	ARG	Sidechain
41	RJ	282	ARG	Sidechain
41	RJ	306	ARG	Sidechain
41	RJ	309	ARG	Sidechain
41	RJ	320	ARG	Sidechain
41	RJ	359	ARG	Sidechain
41	RJ	380	ARG	Sidechain
41	RJ	391	ARG	Sidechain
41	RJ	46	ARG	Sidechain
41	RJ	62	ARG	Sidechain
41	RJ	77	ARG	Sidechain
41	RJ	86	ARG	Sidechain

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Mol	Chain	Res	Type	Group
42	RK	303	VAL	Peptide
41	RL	370	ASN	Peptide
42	SC	218	ASP	Peptide
41	SD	380	ARG	Sidechain
41	SD	393	ALA	Peptide
42	SE	105	ARG	Sidechain
42	SE	121	ARG	Sidechain
42	SE	156	ARG	Sidechain
42	SE	214	ARG	Sidechain
42	SE	215	ARG	Sidechain
42	SE	221	ARG	Sidechain
42	SE	243	ARG	Sidechain
42	SE	264	ARG	Sidechain
42	SE	339	ARG	Sidechain
42	SE	373	ARG	Sidechain
42	SE	402	ARG	Sidechain
42	SE	422	ARG	Sidechain
42	SE	64	ARG	Sidechain
42	SE	79	ARG	Sidechain
42	SE	84	ARG	Sidechain
41	SF	156	ARG	Sidechain
41	SF	162	ARG	Sidechain
41	SF	213	ARG	Sidechain
41	SF	251	ARG	Sidechain
41	SF	262	ARG	Sidechain
41	SF	276	ARG	Sidechain
41	SF	282	ARG	Sidechain
41	SF	306	ARG	Sidechain
41	SF	309	ARG	Sidechain
41	SF	318	ARG	Sidechain
41	SF	359	ARG	Sidechain
41	SF	390	ARG	Sidechain
41	SF	391	ARG	Sidechain
41	SF	46	ARG	Sidechain
41	SF	62	ARG	Sidechain
41	SF	77	ARG	Sidechain
41	SF	86	ARG	Sidechain
42	SG	224	TYR	Sidechain
42	SG	88	HIS	Peptide
41	SH	138	SER	Peptide
41	SH	156	ARG	Sidechain
41	SH	380	ARG	Sidechain

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Mol	Chain	Res	Type	Group
41	SH	67	ASP	Peptide
42	SI	121	ARG	Sidechain
42	SI	123	ARG	Sidechain
42	SI	156	ARG	Sidechain
42	SI	2	ARG	Sidechain
42	SI	214	ARG	Sidechain
42	SI	215	ARG	Sidechain
42	SI	221	ARG	Sidechain
42	SI	229	ARG	Sidechain
42	SI	243	ARG	Sidechain
42	SI	264	ARG	Sidechain
42	SI	308	ARG	Sidechain
42	SI	320	ARG	Sidechain
42	SI	339	ARG	Sidechain
42	SI	373	ARG	Sidechain
42	SI	390	ARG	Sidechain
42	SI	402	ARG	Sidechain
42	SI	64	ARG	Sidechain
42	SI	79	ARG	Sidechain
41	SJ	355	ASP	Peptide
41	SJ	94	GLN	Peptide
42	SK	28	HIS	Peptide
41	SL	121	ARG	Sidechain
41	SL	156	ARG	Sidechain
41	SL	162	ARG	Sidechain
41	SL	213	ARG	Sidechain
41	SL	241	ARG	Sidechain
41	SL	251	ARG	Sidechain
41	SL	262	ARG	Sidechain
41	SL	276	ARG	Sidechain
41	SL	282	ARG	Sidechain
41	SL	306	ARG	Sidechain
41	SL	309	ARG	Sidechain
41	SL	359	ARG	Sidechain
41	SL	390	ARG	Sidechain
41	SL	391	ARG	Sidechain
41	SL	46	ARG	Sidechain
41	SL	62	ARG	Sidechain
41	SL	77	ARG	Sidechain
42	SM	414	GLU	Peptide
42	TC	109	THR	Peptide
41	TD	304	ASP	Peptide

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Mol	Chain	Res	Type	Group
41	TF	137	HIS	Peptide
42	TG	337	THR	Peptide
42	TG	338	LYS	Peptide
41	TH	251	ARG	Sidechain
41	TH	380	ARG	Sidechain
42	TI	121	ARG	Sidechain
42	TI	123	ARG	Sidechain
42	TI	156	ARG	Sidechain
42	TI	2	ARG	Sidechain
42	TI	215	ARG	Sidechain
42	TI	221	ARG	Sidechain
42	TI	229	ARG	Sidechain
42	TI	243	ARG	Sidechain
42	TI	264	ARG	Sidechain
42	TI	320	ARG	Sidechain
42	TI	373	ARG	Sidechain
42	TI	390	ARG	Sidechain
42	TI	402	ARG	Sidechain
42	TI	422	ARG	Sidechain
42	TI	64	ARG	Sidechain
41	TJ	276	ARG	Sidechain
41	TJ	302	ALA	Peptide
41	TJ	323	MET	Peptide
41	TJ	359	ARG	Sidechain
42	TK	105	ARG	Sidechain
42	TK	121	ARG	Sidechain
42	TK	156	ARG	Sidechain
42	TK	214	ARG	Sidechain
42	TK	215	ARG	Sidechain
42	TK	221	ARG	Sidechain
42	TK	229	ARG	Sidechain
42	TK	243	ARG	Sidechain
42	TK	264	ARG	Sidechain
42	TK	308	ARG	Sidechain
42	TK	320	ARG	Sidechain
42	TK	339	ARG	Sidechain
42	TK	373	ARG	Sidechain
42	TK	390	ARG	Sidechain
42	TK	422	ARG	Sidechain
42	TK	84	ARG	Sidechain
42	TM	217	LEU	Peptide
42	UC	105	ARG	Sidechain

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Mol	Chain	Res	Type	Group
42	UC	121	ARG	Sidechain
42	UC	123	ARG	Sidechain
42	UC	156	ARG	Sidechain
42	UC	2	ARG	Sidechain
42	UC	214	ARG	Sidechain
42	UC	215	ARG	Sidechain
42	UC	221	ARG	Sidechain
42	UC	229	ARG	Sidechain
42	UC	243	ARG	Sidechain
42	UC	264	ARG	Sidechain
42	UC	339	ARG	Sidechain
42	UC	373	ARG	Sidechain
42	UC	390	ARG	Sidechain
42	UC	422	ARG	Sidechain
42	UC	84	ARG	Sidechain
41	UD	70	PRO	Peptide
42	UE	367	ASP	Peptide
42	UE	49	PHE	Peptide
41	UF	323	MET	Peptide
41	UF	380	ARG	Sidechain
42	UG	64	ARG	Sidechain
42	UG	79	ARG	Sidechain
42	UG	84	ARG	Sidechain
41	UH	318	ARG	Sidechain
42	UI	123	ARG	Sidechain
42	UK	121	ARG	Sidechain
42	UK	123	ARG	Sidechain
42	UK	160	ASP	Peptide
42	UK	2	ARG	Sidechain
41	UL	213	ARG	Sidechain
42	VC	44	GLY	Peptide
41	VD	380	ARG	Sidechain
41	VF	62	ARG	Sidechain
42	VG	28	HIS	Peptide
41	VH	281	TYR	Peptide
42	VI	2	ARG	Sidechain
41	VJ	276	ARG	Sidechain
41	VJ	391	ARG	Sidechain
41	VJ	77	ARG	Sidechain
41	VJ	86	ARG	Sidechain
42	VK	121	ARG	Sidechain
42	VK	123	ARG	Sidechain

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Mol	Chain	Res	Type	Group
42	VK	156	ARG	Sidechain
42	VK	2	ARG	Sidechain
42	VK	214	ARG	Sidechain
42	VK	215	ARG	Sidechain
42	VK	221	ARG	Sidechain
42	VK	229	ARG	Sidechain
42	VK	264	ARG	Sidechain
42	VK	308	ARG	Sidechain
42	VK	339	ARG	Sidechain
42	VK	373	ARG	Sidechain
42	VK	390	ARG	Sidechain
42	VK	402	ARG	Sidechain
42	VK	422	ARG	Sidechain
42	VK	64	ARG	Sidechain
42	VK	79	ARG	Sidechain
42	VK	84	ARG	Sidechain
42	VM	214	ARG	Sidechain
42	WC	100	ALA	Peptide
41	WD	301	ALA	Peptide
42	WE	105	ARG	Sidechain
42	WE	121	ARG	Sidechain
42	WE	123	ARG	Sidechain
42	WE	156	ARG	Sidechain
42	WE	2	ARG	Sidechain
42	WE	214	ARG	Sidechain
42	WE	215	ARG	Sidechain
42	WE	243	ARG	Sidechain
42	WE	264	ARG	Sidechain
42	WE	308	ARG	Sidechain
42	WE	320	ARG	Sidechain
42	WE	339	ARG	Sidechain
42	WE	373	ARG	Sidechain
42	WE	422	ARG	Sidechain
42	WE	64	ARG	Sidechain
42	WE	79	ARG	Sidechain
42	WE	84	ARG	Sidechain
41	WF	121	ARG	Sidechain
41	WF	156	ARG	Sidechain
41	WF	162	ARG	Sidechain
41	WF	213	ARG	Sidechain
41	WF	241	ARG	Sidechain
41	WF	262	ARG	Sidechain

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Mol	Chain	Res	Type	Group
41	WF	276	ARG	Sidechain
41	WF	282	ARG	Sidechain
41	WF	306	ARG	Sidechain
41	WF	309	ARG	Sidechain
41	WF	318	ARG	Sidechain
41	WF	320	ARG	Sidechain
41	WF	380	ARG	Sidechain
41	WF	390	ARG	Sidechain
41	WF	46	ARG	Sidechain
41	WF	77	ARG	Sidechain
41	WF	86	ARG	Sidechain
41	WH	121	ARG	Sidechain
41	WH	156	ARG	Sidechain
41	WH	162	ARG	Sidechain
41	WH	2	ARG	Sidechain
41	WH	213	ARG	Sidechain
41	WH	241	ARG	Sidechain
41	WH	262	ARG	Sidechain
41	WH	276	ARG	Sidechain
41	WH	282	ARG	Sidechain
41	WH	306	ARG	Sidechain
41	WH	309	ARG	Sidechain
41	WH	320	ARG	Sidechain
41	WH	359	ARG	Sidechain
41	WH	380	ARG	Sidechain
41	WH	391	ARG	Sidechain
41	WH	46	ARG	Sidechain
41	WH	62	ARG	Sidechain
41	WH	77	ARG	Sidechain
41	WH	86	ARG	Sidechain
42	WI	105	ARG	Sidechain
42	WI	123	ARG	Sidechain
42	WI	156	ARG	Sidechain
42	WI	214	ARG	Sidechain
42	WI	215	ARG	Sidechain
42	WI	221	ARG	Sidechain
42	WI	243	ARG	Sidechain
42	WI	264	ARG	Sidechain
42	WI	308	ARG	Sidechain
42	WI	320	ARG	Sidechain
42	WI	339	ARG	Sidechain
42	WI	373	ARG	Sidechain

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Mol	Chain	Res	Type	Group
42	WI	402	ARG	Sidechain
42	WI	422	ARG	Sidechain
42	WI	64	ARG	Sidechain
42	WI	84	ARG	Sidechain
41	WJ	276	ARG	Sidechain
41	WJ	282	ARG	Sidechain
41	WJ	393	ALA	Peptide
42	WK	79	ARG	Sidechain

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1A	2437	0	1166	0	0
2	1D	1109	0	1132	15	0
2	1E	1569	0	1624	24	0
2	1F	698	0	735	12	0
3	1H	685	0	684	3	0
3	1I	3234	0	3300	13	0
4	1K	1348	0	1323	11	0
4	1L	269	0	267	3	0
5	1N	894	0	894	12	0
5	1O	910	0	914	10	0
5	1P	928	0	925	5	0
6	1R	785	0	787	5	0
7	1T	2055	0	2024	11	0
7	1U	2055	0	2024	11	0
8	1W	1143	0	1162	0	0
8	1X	1532	0	1559	8	0
8	1Y	1532	0	1559	5	0
8	1Z	1532	0	1559	5	0
8	2A	1532	0	1559	11	0
8	2B	1532	0	1559	5	0
9	2D	3649	0	3628	96	0
9	2E	816	0	802	4	0
10	2F	631	0	605	7	0
10	2G	631	0	605	5	0
10	2H	631	0	605	9	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
11	2J	1349	0	1408	8	0
11	2K	2554	0	2614	12	0
11	2L	2330	0	2400	18	0
11	2M	1589	0	1624	7	0
12	2O	4713	0	4699	6	0
12	2P	4713	0	4699	5	0
12	2Q	4713	0	4699	8	0
13	2S	2081	0	1873	19	0
13	2T	1694	0	1714	13	0
14	2V	287	0	270	3	0
14	2W	1756	0	1756	11	0
14	2X	1711	0	1706	13	0
14	2Y	1327	0	1334	13	0
15	3A	1487	0	1428	17	0
16	3C	1693	0	1653	36	0
16	3D	531	0	532	8	0
17	3F	520	0	221	0	0
18	3H	481	0	216	0	0
19	3J	3563	0	3513	49	0
19	3K	3652	0	3604	77	0
19	3L	3726	0	3675	74	0
20	3N	2388	0	2308	60	0
20	3O	4781	0	4714	95	0
20	3P	4787	0	4707	88	0
20	3Q	2409	0	2414	26	0
21	3S	563	0	565	11	0
21	3T	1939	0	2008	29	0
21	3U	1939	0	2008	27	0
21	3V	1696	0	1761	28	0
22	3X	1014	0	974	19	0
22	3Y	1116	0	1085	41	0
22	3Z	1059	0	1008	31	0
22	4A	840	0	810	30	0
22	4B	830	0	795	16	0
22	4C	667	0	637	24	0
23	4D	992	0	974	27	0
24	4F	1261	0	1276	44	0
24	4G	2883	0	2934	54	0
25	4I	2533	0	2088	32	0
25	4J	2947	0	2927	60	0
26	4K	1102	0	1103	27	0
26	4L	1911	0	1935	45	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
26	4M	876	0	903	22	0
27	4O	1767	0	1777	32	0
27	4P	1767	0	1777	22	0
27	4Q	1767	0	1777	34	0
27	4R	1767	0	1777	62	0
27	4S	1767	0	1777	15	0
27	4T	1767	0	1777	31	0
28	4V	304	0	287	14	0
28	4W	654	0	616	16	0
29	4Y	775	0	745	23	0
30	5A	2915	0	2907	67	0
30	5B	133	0	110	6	0
31	5D	1260	0	1246	24	0
31	5E	1254	0	1235	23	0
31	5F	1277	0	1270	8	0
31	5G	1260	0	1246	29	0
31	5H	1260	0	1246	17	0
31	5I	1260	0	1246	6	0
31	5J	1260	0	1246	25	0
32	5L	943	0	978	22	0
32	5M	3231	0	3294	69	0
32	5N	3231	0	3294	56	0
32	5O	2414	0	2445	71	0
33	5Q	901	0	878	25	0
33	5R	3250	0	3272	65	0
33	5S	3250	0	3272	89	0
33	5T	2498	0	2529	78	0
33	5V	2513	0	2534	97	0
33	5W	3336	0	3348	95	0
33	5X	3336	0	3348	92	0
33	5Y	877	0	846	12	0
34	6A	2240	0	2185	123	0
34	6B	3189	0	3161	102	0
34	6C	3200	0	3174	116	0
34	6D	992	0	1015	43	0
34	6E	487	0	509	28	0
34	6F	2896	0	2894	62	0
34	6G	3386	0	3351	74	0
34	6H	2989	0	2948	70	0
34	6I	531	0	508	8	0
34	6J	553	0	512	13	0
34	6K	3022	0	2962	56	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
34	6L	3411	0	3370	87	0
34	6M	2923	0	2929	69	0
34	6N	445	0	463	14	0
35	6P	1491	0	1389	21	0
35	6Q	3364	0	3303	60	0
35	6R	3364	0	3303	66	0
35	6S	2057	0	2109	48	0
35	6T	1917	0	1965	51	0
35	6U	3413	0	3327	76	0
35	6V	3571	0	3522	99	0
35	6W	1766	0	1683	59	0
36	6Y	1300	0	1065	13	0
36	6Z	1300	0	1065	11	0
37	7C	898	0	885	65	0
37	7D	618	0	637	25	0
37	7E	625	0	614	30	0
37	7F	519	0	497	26	0
38	7H	637	0	600	44	0
38	7I	238	0	215	14	0
39	7K	878	0	850	11	0
39	7L	382	0	368	7	0
40	7N	524	0	492	13	0
41	AB	3424	0	3291	83	0
41	AD	3424	0	3293	79	0
41	AF	3424	0	3291	67	0
41	AH	3424	0	3293	125	0
41	AJ	3424	0	3293	66	0
41	AL	3424	0	3293	73	0
41	BB	3356	0	3237	57	0
41	BD	3356	0	3240	134	0
41	BF	3361	0	3245	62	0
41	BH	3356	0	3240	78	0
41	BJ	3356	0	3240	77	0
41	BL	3340	0	3223	77	0
41	CB	3348	0	3236	84	0
41	CD	3348	0	3236	125	0
41	CF	3361	0	3245	153	0
41	CH	3356	0	3240	92	0
41	CJ	3361	0	3245	146	0
41	CL	3340	0	3224	108	0
41	DB	3348	0	3234	110	0
41	DD	3348	0	3235	99	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
41	DF	3348	0	3236	101	0
41	DH	3348	0	3236	239	0
41	DJ	3348	0	3236	261	0
41	DL	3340	0	3223	122	0
41	ED	3348	0	3236	206	0
41	EF	3348	0	3236	115	0
41	EH	3361	0	3243	106	0
41	EJ	3348	0	3235	120	0
41	EL	3340	0	3224	117	0
41	FD	3356	0	3240	169	0
41	FF	3348	0	3234	108	0
41	FH	3348	0	3236	125	0
41	FJ	3348	0	3236	146	0
41	FL	3340	0	3223	185	0
41	GD	3356	0	3240	109	0
41	GF	3361	0	3244	75	0
41	GH	3361	0	3245	80	0
41	GJ	3361	0	3245	148	0
41	GL	3340	0	3224	72	0
41	HB	3348	0	3236	81	0
41	HD	3356	0	3240	165	0
41	HF	3361	0	3245	101	0
41	HH	3356	0	3238	108	0
41	HJ	3361	0	3245	157	0
41	HL	3340	0	3224	84	0
41	ID	3356	0	3240	88	0
41	IF	3361	0	3244	96	0
41	IH	3356	0	3240	68	0
41	IJ	3361	0	3245	76	0
41	IL	3348	0	3236	98	0
41	IN	3361	0	3245	187	0
41	JD	3356	0	3239	84	0
41	JF	3348	0	3236	71	0
41	JH	3348	0	3235	80	0
41	JJ	3348	0	3236	89	0
41	JL	3348	0	3236	90	0
41	KD	3361	0	3244	93	0
41	KF	3356	0	3239	67	0
41	KH	3368	0	3252	73	0
41	KJ	3348	0	3235	66	0
41	KL	3368	0	3252	74	0
41	KN	3361	0	3245	59	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
41	LD	3356	0	3240	78	0
41	LF	3361	0	3243	45	0
41	LH	3361	0	3245	54	0
41	LJ	3361	0	3245	57	0
41	LL	3348	0	3236	66	0
41	LN	3361	0	3245	62	0
41	MD	3348	0	3236	132	0
41	MF	3361	0	3245	90	0
41	MH	3361	0	3245	59	0
41	MJ	3348	0	3236	78	0
41	ML	3348	0	3236	111	0
41	MN	3348	0	3236	130	0
41	NB	3361	0	3245	111	0
41	ND	3356	0	3240	107	0
41	NF	3356	0	3240	95	0
41	NH	3361	0	3245	96	0
41	NJ	3361	0	3245	79	0
41	NL	3118	0	3001	81	0
41	OB	3339	0	3228	179	0
41	OD	3327	0	3218	100	0
41	OF	3339	0	3227	92	0
41	OH	3361	0	3245	107	0
41	OJ	3361	0	3245	113	0
41	OL	3327	0	3219	95	0
41	PB	3356	0	3240	150	0
41	PD	3356	0	3240	129	0
41	PF	3361	0	3245	137	0
41	PH	3361	0	3245	258	0
41	PJ	3361	0	3245	216	0
41	PL	3340	0	3224	177	0
41	QB	3361	0	3245	104	0
41	QD	3356	0	3240	108	0
41	QF	3361	0	3244	106	0
41	QH	3361	0	3245	168	0
41	QJ	3361	0	3245	161	0
41	QL	3348	0	3236	188	0
41	RB	3361	0	3244	113	0
41	RD	3356	0	3240	158	0
41	RF	3361	0	3245	188	0
41	RH	3361	0	3245	101	0
41	RJ	3361	0	3245	153	0
41	RL	3348	0	3236	88	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
41	SD	3356	0	3239	107	0
41	SF	3361	0	3245	140	0
41	SH	3361	0	3243	118	0
41	SJ	3361	0	3244	88	0
41	SL	3348	0	3236	159	0
41	TD	3356	0	3240	103	0
41	TF	3361	0	3245	110	0
41	TH	3361	0	3245	107	0
41	TJ	3361	0	3245	121	0
41	TL	3348	0	3236	114	0
41	UD	3356	0	3238	107	0
41	UF	3361	0	3244	83	0
41	UH	3361	0	3245	96	0
41	UJ	3361	0	3243	109	0
41	UL	3348	0	3236	113	0
41	VD	3356	0	3240	87	0
41	VF	3356	0	3240	94	0
41	VH	3361	0	3244	87	0
41	VJ	3361	0	3244	70	0
41	VL	3348	0	3236	88	0
41	WD	3356	0	3240	60	0
41	WF	3348	0	3236	97	0
41	WH	3348	0	3236	86	0
41	WJ	3348	0	3236	85	0
41	WL	3348	0	3236	75	0
41	WN	3348	0	3236	71	0
42	AC	3437	0	3349	55	0
42	AE	3437	0	3349	63	0
42	AG	3437	0	3349	75	0
42	AI	3437	0	3349	131	0
42	AK	3437	0	3349	133	0
42	BC	3437	0	3349	92	0
42	BE	3396	0	3305	70	0
42	BG	3437	0	3349	75	0
42	BI	3374	0	3285	136	0
42	BK	3430	0	3340	68	0
42	CC	3424	0	3335	166	0
42	CE	3424	0	3335	89	0
42	CG	3430	0	3340	181	0
42	CI	3430	0	3340	88	0
42	CK	3430	0	3340	79	0
42	CM	3430	0	3340	94	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
42	DC	3366	0	3281	99	0
42	DE	3372	0	3286	100	0
42	DG	3379	0	3295	83	0
42	DI	3364	0	3282	114	0
42	DK	3372	0	3286	203	0
42	DM	3372	0	3285	92	0
42	EC	3430	0	3340	110	0
42	EE	3446	0	3355	177	0
42	EG	3404	0	3321	211	0
42	EI	3408	0	3322	105	0
42	EK	3437	0	3349	223	0
42	EM	3358	0	3277	187	0
42	FC	3379	0	3295	170	0
42	FE	3339	0	3258	115	0
42	FG	3346	0	3264	104	0
42	FI	3347	0	3270	125	0
42	FK	3326	0	3250	206	0
42	FM	3365	0	3279	140	0
42	GC	3437	0	3349	82	0
42	GE	3371	0	3291	74	0
42	GG	3393	0	3304	71	0
42	GI	3365	0	3285	86	0
42	GK	3364	0	3283	106	0
42	GM	3430	0	3340	155	0
42	HC	3350	0	3273	188	0
42	HE	3374	0	3285	104	0
42	HG	3371	0	3291	176	0
42	HI	3371	0	3291	151	0
42	HK	3379	0	3295	127	0
42	HM	3365	0	3279	143	0
42	IC	3365	0	3286	63	0
42	IE	3388	0	3301	99	0
42	IG	3437	0	3349	78	0
42	II	3387	0	3299	80	0
42	IK	3437	0	3348	96	0
42	IM	3378	0	3291	80	0
42	JC	3384	0	3295	72	0
42	JE	3372	0	3285	76	0
42	JG	3358	0	3277	64	0
42	JI	3366	0	3281	70	0
42	JK	3437	0	3349	157	0
42	JM	3372	0	3286	91	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
42	KC	3384	0	3293	41	0
42	KE	3380	0	3290	52	0
42	KG	3370	0	3284	66	0
42	KI	3358	0	3277	59	0
42	KK	3372	0	3286	63	0
42	KM	3376	0	3286	75	0
42	LC	3393	0	3304	57	0
42	LE	3437	0	3349	63	0
42	LG	3393	0	3304	51	0
42	LI	3397	0	3307	54	0
42	LK	3401	0	3310	56	0
42	LM	3378	0	3291	57	0
42	MC	3430	0	3340	94	0
42	ME	3366	0	3281	60	0
42	MG	3372	0	3286	82	0
42	MI	3379	0	3295	63	0
42	MK	3437	0	3349	125	0
42	MM	3376	0	3281	116	0
42	NA	3372	0	3278	98	0
42	NC	3365	0	3286	156	0
42	NE	3374	0	3292	70	0
42	NG	3387	0	3299	93	0
42	NI	3387	0	3299	126	0
42	NK	3374	0	3285	125	0
42	OA	3358	0	3269	95	0
42	OC	3366	0	3281	99	0
42	OE	3396	0	3305	114	0
42	OG	3391	0	3302	95	0
42	OI	3387	0	3299	91	0
42	OK	3380	0	3289	102	0
42	PA	2872	0	2816	166	0
42	PC	3386	0	3295	170	0
42	PE	3380	0	3297	149	0
42	PG	3371	0	3291	257	0
42	PI	3349	0	3263	244	0
42	PK	3371	0	3291	137	0
42	QC	3372	0	3286	105	0
42	QE	3372	0	3285	105	0
42	QG	3380	0	3290	119	0
42	QI	3366	0	3281	163	0
42	QK	3380	0	3290	139	0
42	RC	3387	0	3299	109	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
42	RE	3358	0	3275	100	0
42	RG	3372	0	3288	119	0
42	RI	3379	0	3295	117	0
42	RK	3379	0	3295	127	0
42	SC	3372	0	3288	127	0
42	SE	3381	0	3294	149	0
42	SG	3379	0	3295	96	0
42	SI	3358	0	3267	144	0
42	SK	3387	0	3298	119	0
42	SM	3378	0	3291	118	0
42	TC	3371	0	3291	101	0
42	TE	3388	0	3301	110	0
42	TG	3371	0	3290	119	0
42	TI	3371	0	3291	152	0
42	TK	3387	0	3299	137	0
42	TM	3372	0	3286	154	0
42	UC	3393	0	3304	118	0
42	UE	3388	0	3301	100	0
42	UG	3393	0	3304	95	0
42	UI	3393	0	3303	97	0
42	UK	3391	0	3302	95	0
42	UM	3378	0	3291	99	0
42	VC	3437	0	3349	64	0
42	VE	3396	0	3305	77	0
42	VG	3437	0	3349	83	0
42	VI	3393	0	3304	80	0
42	VK	3437	0	3349	115	0
42	VM	3372	0	3286	86	0
42	WC	3437	0	3349	54	0
42	WE	3380	0	3290	88	0
42	WG	3430	0	3340	70	0
42	WI	3380	0	3290	88	0
42	WK	3424	0	3335	72	0
42	WM	3378	0	3291	81	0
43	AB	28	0	11	0	0
43	AD	28	0	12	0	0
43	AF	28	0	12	1	0
43	AH	28	0	12	0	0
43	AJ	28	0	12	1	0
43	AL	28	0	12	0	0
43	BB	28	0	10	0	0
43	BD	28	0	12	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
43	BF	28	0	12	1	0
43	BH	28	0	12	0	0
43	BJ	28	0	12	1	0
43	BL	28	0	12	0	0
43	CB	28	0	12	2	0
43	CD	28	0	12	0	0
43	CF	28	0	12	3	0
43	CH	28	0	12	0	0
43	CJ	28	0	12	1	0
43	CL	28	0	12	0	0
43	DB	28	0	12	0	0
43	DD	28	0	12	2	0
43	DF	28	0	12	1	0
43	DH	28	0	12	3	0
43	DJ	28	0	12	1	0
43	DL	28	0	11	1	0
43	ED	28	0	12	2	0
43	EF	28	0	12	2	0
43	EH	28	0	12	3	0
43	EJ	28	0	11	1	0
43	EL	28	0	12	0	0
43	FD	28	0	12	3	0
43	FF	28	0	10	2	0
43	FH	28	0	12	3	0
43	FJ	28	0	12	0	0
43	FL	28	0	12	0	0
43	GD	28	0	12	0	0
43	GF	28	0	12	3	0
43	GH	28	0	12	0	0
43	GJ	28	0	12	1	0
43	GL	28	0	12	2	0
43	HB	28	0	12	1	0
43	HD	28	0	12	2	0
43	HF	28	0	12	0	0
43	HH	28	0	11	4	0
43	HJ	28	0	12	0	0
43	HL	28	0	12	0	0
43	ID	28	0	12	3	0
43	IF	28	0	12	3	0
43	IH	28	0	11	2	0
43	IJ	28	0	12	2	0
43	IL	28	0	11	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
43	IN	28	0	12	0	0
43	JD	28	0	11	1	0
43	JF	28	0	12	2	0
43	JH	28	0	12	3	0
43	JJ	28	0	12	0	0
43	JL	28	0	12	1	0
43	KD	28	0	12	1	0
43	KF	28	0	12	0	0
43	KG	28	0	11	1	0
43	KJ	28	0	12	0	0
43	KL	28	0	12	0	0
43	KN	28	0	12	1	0
43	LD	28	0	12	1	0
43	LF	28	0	12	1	0
43	LH	28	0	12	1	0
43	LJ	28	0	12	0	0
43	LL	28	0	12	2	0
43	LN	28	0	12	2	0
43	MD	28	0	12	2	0
43	MF	28	0	12	0	0
43	MH	28	0	12	1	0
43	MJ	28	0	12	0	0
43	ML	28	0	12	2	0
43	MN	28	0	12	1	0
43	NB	28	0	12	0	0
43	ND	28	0	12	0	0
43	NF	28	0	12	0	0
43	NH	28	0	12	0	0
43	NJ	28	0	12	1	0
43	NL	28	0	12	1	0
43	OB	28	0	12	0	0
43	OD	28	0	12	1	0
43	OF	28	0	12	0	0
43	OH	28	0	12	1	0
43	OJ	28	0	12	1	0
43	OL	28	0	11	0	0
43	PB	28	0	12	1	0
43	PD	28	0	12	0	0
43	PF	28	0	12	0	0
43	PH	28	0	12	2	0
43	PJ	28	0	12	2	0
43	PL	28	0	12	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
43	QB	28	0	12	3	0
43	QD	28	0	12	0	0
43	QF	28	0	12	1	0
43	QH	28	0	12	1	0
43	QJ	28	0	12	2	0
43	QL	28	0	12	2	0
43	RB	28	0	12	2	0
43	RD	28	0	12	1	0
43	RF	28	0	12	1	0
43	RH	28	0	12	0	0
43	RJ	28	0	12	2	0
43	RL	28	0	12	0	0
43	SD	28	0	12	0	0
43	SF	28	0	12	2	0
43	SH	28	0	12	0	0
43	SJ	28	0	11	1	0
43	SL	28	0	12	3	0
43	TD	28	0	12	1	0
43	TF	28	0	12	0	0
43	TH	28	0	11	1	0
43	TJ	28	0	12	1	0
43	TL	28	0	12	0	0
43	UD	28	0	12	0	0
43	UF	28	0	12	0	0
43	UH	28	0	12	0	0
43	UJ	28	0	10	3	0
43	UL	28	0	12	1	0
43	VD	28	0	12	1	0
43	VF	28	0	12	0	0
43	VH	28	0	12	1	0
43	VJ	28	0	12	0	0
43	VL	28	0	12	1	0
43	WD	28	0	12	2	0
43	WF	28	0	12	2	0
43	WH	28	0	12	0	0
43	WJ	28	0	12	1	0
43	WL	28	0	12	0	0
43	WN	28	0	12	2	0
44	AB	1	0	0	0	0
44	AE	1	0	0	0	0
44	AG	1	0	0	0	0
44	AI	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
44	AK	1	0	0	0	0
44	BC	1	0	0	0	0
44	BE	1	0	0	0	0
44	BG	1	0	0	0	0
44	BI	1	0	0	0	0
44	BK	1	0	0	0	0
44	CC	1	0	0	0	0
44	CE	1	0	0	0	0
44	CI	1	0	0	0	0
44	CK	1	0	0	0	0
44	CM	1	0	0	0	0
44	DM	1	0	0	0	0
44	EK	1	0	0	0	0
44	FC	1	0	0	0	0
44	FD	1	0	0	0	0
44	FG	1	0	0	0	0
44	FI	1	0	0	0	0
44	FK	1	0	0	0	0
44	FL	1	0	0	0	0
44	GC	1	0	0	0	0
44	GE	1	0	0	0	0
44	GG	1	0	0	0	0
44	GI	1	0	0	0	0
44	GK	1	0	0	0	0
44	GM	1	0	0	0	0
44	HC	1	0	0	0	0
44	HE	1	0	0	0	0
44	HG	1	0	0	0	0
44	HI	1	0	0	0	0
44	HK	1	0	0	0	0
44	HM	1	0	0	0	0
44	IC	1	0	0	0	0
44	IE	1	0	0	0	0
44	IG	1	0	0	0	0
44	IK	1	0	0	0	0
44	IL	1	0	0	0	0
44	JC	1	0	0	0	0
44	JE	1	0	0	0	0
44	JG	1	0	0	0	0
44	JI	1	0	0	0	0
44	JK	1	0	0	0	0
44	JM	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
44	KC	1	0	0	0	0
44	KE	1	0	0	0	0
44	KG	1	0	0	0	0
44	KI	1	0	0	0	0
44	KK	1	0	0	0	0
44	KM	1	0	0	0	0
44	LC	1	0	0	0	0
44	LD	1	0	0	0	0
44	LG	1	0	0	0	0
44	LI	1	0	0	0	0
44	LK	1	0	0	0	0
44	LM	1	0	0	0	0
44	MC	1	0	0	0	0
44	ME	1	0	0	0	0
44	MH	1	0	0	0	0
44	MK	1	0	0	0	0
44	MM	1	0	0	0	0
44	NA	1	0	0	0	0
44	NB	1	0	0	0	0
44	NE	1	0	0	0	0
44	NG	1	0	0	0	0
44	NI	1	0	0	0	0
44	NK	1	0	0	0	0
44	OA	1	0	0	0	0
44	OC	1	0	0	0	0
44	OE	1	0	0	0	0
44	OI	1	0	0	0	0
44	OK	1	0	0	0	0
44	PC	1	0	0	0	0
44	PE	1	0	0	0	0
44	PG	1	0	0	0	0
44	PI	1	0	0	0	0
44	SC	1	0	0	0	0
44	SD	1	0	0	0	0
44	SF	1	0	0	0	0
44	SH	1	0	0	0	0
44	SJ	1	0	0	0	0
44	TC	1	0	0	0	0
44	TD	1	0	0	0	0
44	TF	1	0	0	0	0
44	TI	1	0	0	0	0
44	TK	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
44	TL	1	0	0	0	0
44	UE	1	0	0	0	0
44	UG	1	0	0	0	0
44	UI	1	0	0	0	0
44	UK	1	0	0	0	0
44	UM	1	0	0	0	0
44	VC	1	0	0	0	0
44	VE	1	0	0	0	0
44	VG	1	0	0	0	0
44	VI	1	0	0	0	0
44	VJ	1	0	0	0	0
44	VM	1	0	0	0	0
44	WC	1	0	0	0	0
44	WD	1	0	0	0	0
44	WG	1	0	0	0	0
44	WI	1	0	0	0	0
44	WK	1	0	0	0	0
44	WM	1	0	0	0	0
45	AC	32	0	12	2	0
45	AE	32	0	12	2	0
45	AF	32	0	12	3	0
45	AI	32	0	12	1	0
45	AK	32	0	12	0	0
45	BC	32	0	12	1	0
45	BE	32	0	12	0	0
45	BG	32	0	12	2	0
45	BI	32	0	12	1	0
45	BK	32	0	12	2	0
45	CC	32	0	12	0	0
45	CE	32	0	12	4	0
45	CG	32	0	12	4	0
45	CI	32	0	11	4	0
45	CK	32	0	12	2	0
45	CM	32	0	12	4	0
45	DC	32	0	11	4	0
45	DE	32	0	12	2	0
45	DG	32	0	12	0	0
45	DI	32	0	12	2	0
45	DK	32	0	12	1	0
45	DM	32	0	11	0	0
45	EC	32	0	12	1	0
45	EE	32	0	12	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
45	EG	32	0	12	6	0
45	EI	32	0	12	2	0
45	EK	32	0	12	2	0
45	EM	32	0	12	0	0
45	FC	32	0	12	2	0
45	FE	32	0	12	1	0
45	FF	32	0	12	1	0
45	FI	32	0	12	2	0
45	FK	32	0	12	5	0
45	FM	32	0	12	1	0
45	GC	32	0	11	3	0
45	GE	32	0	12	3	0
45	GF	32	0	11	0	0
45	GI	32	0	10	0	0
45	GK	32	0	12	2	0
45	GM	32	0	12	3	0
45	HC	32	0	12	3	0
45	HE	32	0	12	1	0
45	HG	32	0	12	2	0
45	HI	32	0	12	1	0
45	HK	32	0	12	2	0
45	HM	32	0	12	0	0
45	IC	32	0	12	0	0
45	IE	32	0	12	2	0
45	IG	32	0	12	0	0
45	II	32	0	12	0	0
45	IK	32	0	11	1	0
45	IM	32	0	12	0	0
45	JC	32	0	11	0	0
45	JE	32	0	12	2	0
45	JG	32	0	12	1	0
45	JI	32	0	12	1	0
45	JK	32	0	12	3	0
45	JM	32	0	12	3	0
45	KC	32	0	12	1	0
45	KE	32	0	12	1	0
45	KG	32	0	12	1	0
45	KI	32	0	12	0	0
45	KK	32	0	12	1	0
45	KM	32	0	12	0	0
45	LC	32	0	12	0	0
45	LE	32	0	12	3	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
45	LF	32	0	11	1	0
45	LI	32	0	12	1	0
45	LK	32	0	12	0	0
45	LM	32	0	12	0	0
45	MC	32	0	12	1	0
45	ME	32	0	12	1	0
45	MG	32	0	12	0	0
45	MI	32	0	12	2	0
45	MK	32	0	12	0	0
45	MM	32	0	12	4	0
45	NA	32	0	12	2	0
45	NC	32	0	12	3	0
45	NE	32	0	12	1	0
45	NG	32	0	12	0	0
45	NI	32	0	12	1	0
45	NK	32	0	12	2	0
45	OA	32	0	12	2	0
45	OC	32	0	12	1	0
45	OE	32	0	12	2	0
45	OG	32	0	12	0	0
45	OI	32	0	12	2	0
45	OK	32	0	12	1	0
45	PA	32	0	12	3	0
45	PC	32	0	12	1	0
45	PE	32	0	12	3	0
45	PG	32	0	12	4	0
45	PI	32	0	12	3	0
45	PK	32	0	12	5	0
45	QC	32	0	12	1	0
45	QE	32	0	12	0	0
45	QG	32	0	12	2	0
45	QI	32	0	12	1	0
45	QK	32	0	12	2	0
45	RC	32	0	12	0	0
45	RE	32	0	10	0	0
45	RG	32	0	12	3	0
45	RI	32	0	12	2	0
45	RK	32	0	12	2	0
45	SC	32	0	12	0	0
45	SE	32	0	12	3	0
45	SG	32	0	12	0	0
45	SI	32	0	12	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
45	SK	32	0	12	0	0
45	SM	32	0	12	3	0
45	TC	32	0	12	0	0
45	TE	32	0	12	3	0
45	TG	32	0	12	2	0
45	TI	32	0	12	1	0
45	TK	32	0	12	0	0
45	TM	32	0	12	2	0
45	UC	32	0	12	4	0
45	UE	32	0	12	1	0
45	UG	32	0	12	0	0
45	UI	32	0	12	1	0
45	UK	32	0	12	1	0
45	UM	32	0	12	1	0
45	VC	32	0	12	1	0
45	VE	32	0	12	1	0
45	VG	32	0	12	0	0
45	VI	32	0	12	1	0
45	VK	32	0	12	0	0
45	VM	32	0	12	4	0
45	WC	32	0	12	2	0
45	WE	32	0	12	2	0
45	WG	32	0	12	1	0
45	WI	32	0	12	0	0
45	WK	32	0	12	3	0
45	WM	32	0	12	2	0
All	All	1132145	0	1096916	29327	0

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

All (29327) 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)
42:EI:346:TRP:CH2	42:EI:346:TRP:CZ3	1.87	1.57
41:EJ:391:ARG:CB	41:EJ:391:ARG:CG	1.76	1.57
41:BL:281:TYR:CD2	41:BL:281:TYR:CG	1.96	1.53
41:BL:281:TYR:CG	41:BL:281:TYR:CD1	1.96	1.51
41:EJ:391:ARG:CG	41:EJ:391:ARG:CD	1.84	1.51
42:RC:298:PRO:N	42:RC:298:PRO:CG	1.73	1.43
41:BL:281:TYR:CZ	41:BL:281:TYR:CE1	2.13	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BL:281:TYR:CZ	41:BL:281:TYR:CE2	2.13	1.36
42:NC:406:HIS:CE1	42:NC:407:TRP:NE1	1.98	1.32
42:FK:161:TYR:HB3	42:FK:163:LYS:NZ	1.46	1.31
41:PJ:104:GLY:HA2	41:PJ:109:GLY:CA	1.62	1.30
41:PJ:104:GLY:CA	41:PJ:109:GLY:HA3	1.62	1.30
42:NC:406:HIS:NE2	42:NC:407:TRP:CD1	2.00	1.29
42:FK:161:TYR:CB	42:FK:163:LYS:HZ1	1.46	1.27
41:QH:54:ALA:HA	41:RH:283:ALA:CA	1.66	1.25
41:QH:54:ALA:CA	41:RH:283:ALA:HA	1.68	1.24
41:PH:104:GLY:HA2	41:PH:109:GLY:CA	1.66	1.24
33:5V:416:ASN:HD21	34:6A:171:THR:CG2	1.54	1.18
41:MN:275:SER:HB2	41:MN:276:ARG:NH2	1.58	1.17
42:QI:70:LEU:HA	42:QI:95:GLY:HA3	1.25	1.16
41:QJ:104:GLY:HA2	41:QJ:109:GLY:CA	1.74	1.16
41:PH:104:GLY:CA	41:PH:109:GLY:HA3	1.76	1.15
41:QL:64:VAL:CG1	41:QL:66:VAL:HG12	1.78	1.11
41:HD:42:LEU:HD23	41:HD:356:ILE:HD11	1.15	1.11
42:EM:274:PRO:HG2	42:EM:374:ALA:HA	1.28	1.11
41:MN:275:SER:CB	41:MN:276:ARG:HH21	1.63	1.11
42:NC:406:HIS:CE1	42:NC:407:TRP:CD1	2.37	1.10
16:3D:272:VAL:N	41:VD:340:TYR:HH	1.50	1.10
7:1T:255:HIS:HA	42:MC:45:GLY:HA3	1.17	1.09
33:5V:416:ASN:HD21	34:6A:171:THR:HG22	1.13	1.09
41:PL:104:GLY:HA2	41:PL:109:GLY:CA	1.81	1.09
41:QJ:104:GLY:CA	41:QJ:109:GLY:HA3	1.81	1.09
42:NK:79:ARG:HA	42:NK:84:ARG:HA	1.09	1.09
41:PF:104:GLY:HA2	41:PF:109:GLY:HA3	1.15	1.09
41:PF:104:GLY:HA2	41:PF:109:GLY:CA	1.82	1.09
41:CD:104:GLY:HA2	41:CD:109:GLY:HA3	1.21	1.08
41:BH:324:LYS:HD3	42:BI:222:PRO:HD2	1.31	1.08
42:HC:56:THR:HA	42:IC:285:GLN:HB3	1.30	1.08
41:OJ:104:GLY:HA2	41:OJ:109:GLY:HA3	1.36	1.07
42:PI:350:GLY:HA2	41:PJ:179:VAL:HG12	1.33	1.05
41:QL:64:VAL:HG13	41:QL:66:VAL:CG1	1.85	1.04
42:EG:224:TYR:HA	45:EG:501:GTP:HN21	1.18	1.04
42:RC:298:PRO:CG	42:RC:298:PRO:CB	2.36	1.03
33:5V:416:ASN:ND2	34:6A:171:THR:CG2	2.21	1.03
42:PE:336:LYS:HG3	42:PE:351:PHE:HZ	1.24	1.03
31:5G:128:CYS:HA	42:PI:279:GLU:HB3	1.41	1.03
42:PE:336:LYS:HD2	42:PE:351:PHE:CE2	1.92	1.03
33:5V:416:ASN:ND2	34:6A:171:THR:HG22	1.72	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DH:54:ALA:HA	41:EH:283:ALA:HB2	1.39	1.02
41:PH:244:GLY:HA2	41:PH:355:ASP:HB2	1.41	1.02
31:5G:40:LYS:HD2	42:PI:365:GLY:H	1.22	1.01
41:DJ:57:GLY:HA3	41:EJ:282:ARG:N	1.75	1.01
34:6A:94:TYR:CE2	34:6B:208:ILE:HD12	1.93	1.01
41:MN:275:SER:HB2	41:MN:276:ARG:HH21	0.85	1.01
41:PL:104:GLY:HA2	41:PL:109:GLY:HA3	1.03	1.01
38:7I:218:VAL:HG22	41:IN:336:LYS:HB2	1.45	0.99
42:NK:79:ARG:CA	42:NK:84:ARG:HA	1.93	0.99
41:QL:64:VAL:HG13	41:QL:66:VAL:HG12	1.01	0.99
42:PC:171:ILE:HD11	42:PC:206:ASN:HB3	1.44	0.99
41:DJ:57:GLY:HA3	41:EJ:282:ARG:H	1.23	0.99
41:QL:269:GLY:HA2	41:QL:299:MET:HA	1.44	0.98
42:PA:158:SER:HA	42:PA:162:GLY:HA2	1.45	0.98
41:HJ:87:PRO:HD3	41:IJ:281:TYR:HD1	1.28	0.98
42:RC:298:PRO:CD	42:RC:298:PRO:HG3	1.48	0.98
41:QL:64:VAL:CG1	41:QL:66:VAL:CG1	2.41	0.98
42:RC:298:PRO:CD	42:RC:298:PRO:HG2	1.48	0.97
41:HJ:104:GLY:HA3	41:HJ:146:GLY:HA3	1.46	0.97
42:AK:273:ALA:HB2	42:AK:375:VAL:HG12	1.47	0.97
41:PL:104:GLY:CA	41:PL:109:GLY:HA3	1.95	0.96
41:PL:132:GLY:HA2	41:PL:162:ARG:HB3	1.47	0.96
42:TI:104:ALA:HA	42:TI:108:TYR:HD2	1.31	0.95
41:PH:252:LYS:HG3	42:PI:100:ALA:HA	1.44	0.95
42:PE:336:LYS:HG3	42:PE:351:PHE:CZ	2.00	0.95
41:CD:42:LEU:HD21	41:CD:243:PRO:HD2	1.47	0.95
42:JG:90:GLU:HG3	42:JG:121:ARG:HH22	1.30	0.94
42:NC:406:HIS:NE2	42:NC:407:TRP:NE1	2.10	0.94
9:2D:560:ALA:HA	42:HM:57:GLY:HA3	1.49	0.94
41:QJ:104:GLY:HA2	41:QJ:109:GLY:HA3	0.97	0.94
42:DI:326:LYS:HE3	41:DJ:220:PRO:HG2	1.48	0.94
41:FJ:324:LYS:NZ	42:FK:223:THR:HA	1.83	0.94
41:DL:69:GLU:HB3	41:DL:96:GLY:HA3	1.47	0.94
41:FF:137:HIS:HE2	41:FF:168:SER:HG	1.16	0.93
2:1E:96:LEU:HD22	26:4L:153:LEU:HG	1.47	0.93
41:QH:20:PHE:HB2	41:QH:230:SER:HB2	1.50	0.93
42:NK:437:MET:N	42:NK:437:MET:SD	2.41	0.93
42:AK:30:ILE:HG23	42:AK:34:GLY:HA2	1.50	0.93
41:QL:226:ASN:HD21	43:QL:501:GDP:HN1	1.01	0.93
41:HJ:372:THR:HG21	41:HJ:426:GLN:HB2	1.50	0.92
41:QL:269:GLY:CA	41:QL:299:MET:HA	1.99	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:RC:298:PRO:CG	42:RC:298:PRO:HD3	1.42	0.92
42:DM:207:GLU:HG2	42:DM:304:LYS:HE2	1.48	0.92
42:QI:70:LEU:CA	42:QI:95:GLY:HA3	1.99	0.92
41:DJ:68:LEU:HB3	41:DJ:96:GLY:HA2	1.49	0.92
20:3N:11:HIS:HA	41:KD:70:PRO:HA	1.52	0.92
42:HC:274:PRO:HG2	42:HC:374:ALA:HA	1.52	0.91
42:HG:250:VAL:HG23	42:HG:254:GLU:HB3	1.51	0.91
13:2T:397:ARG:HB3	42:GK:370:LYS:HE3	1.50	0.91
42:EG:224:TYR:HA	45:EG:501:GTP:N2	1.84	0.91
42:FK:139:HIS:HB3	42:FK:168:GLU:HG2	1.52	0.91
41:PB:52:ASN:HB2	41:PB:62:ARG:HD3	1.50	0.91
41:KN:308:GLY:HA2	41:KN:426:GLN:HE22	1.35	0.91
42:PK:88:HIS:HB3	42:PK:91:GLN:HB2	1.49	0.91
9:2D:567:TYR:CE2	41:IN:276:ARG:NE	2.39	0.91
41:HD:87:PRO:HD3	41:ID:281:TYR:CD1	2.06	0.91
41:NB:324:LYS:HD3	42:NC:222:PRO:HD2	1.53	0.91
42:GI:254:GLU:HA	41:GJ:98:GLY:HA2	1.52	0.90
41:PB:347:ASN:HB3	42:PC:181:VAL:HA	1.52	0.90
41:DH:308:GLY:HA3	41:DH:373:ALA:HB2	1.51	0.90
41:PL:97:ALA:HA	41:PL:103:LYS:HG3	1.53	0.90
42:RC:298:PRO:CG	42:RC:298:PRO:HD2	1.42	0.90
42:FC:158:SER:HA	42:FC:162:GLY:HA2	1.53	0.90
20:3P:282:GLY:HA2	41:CJ:217:LEU:HD11	1.50	0.90
41:CF:1:MET:HG3	42:CG:96:LYS:HG3	1.53	0.90
41:CF:87:PRO:HD3	41:DF:281:TYR:HD2	1.37	0.90
41:PF:104:GLY:CA	41:PF:109:GLY:HA3	1.99	0.89
33:5S:185:ILE:HD12	33:5T:324:ARG:HG2	1.53	0.89
31:5H:59:SER:HA	41:OJ:56:GLY:HA2	1.53	0.89
19:3K:98:LYS:HD3	42:AG:41:THR:HG21	1.51	0.89
42:PE:89:PRO:HG2	42:QE:280:LYS:HG2	1.53	0.89
20:3N:12:TRP:N	41:KD:71:GLY:H	1.70	0.89
20:3N:12:TRP:H	41:KD:71:GLY:H	1.21	0.89
42:PC:134:GLY:CA	42:PC:166:LYS:HA	2.02	0.88
31:5D:127:SER:HB2	42:PC:279:GLU:HA	1.51	0.88
42:QI:70:LEU:HA	42:QI:95:GLY:CA	2.03	0.88
42:TI:325:PRO:HB2	41:TJ:222:TYR:HE2	1.39	0.88
41:OH:68:LEU:HA	41:OH:93:GLY:HA3	1.53	0.88
41:DH:54:ALA:HA	41:EH:283:ALA:CB	2.02	0.88
41:DH:413:SER:HA	41:DH:416:ASN:HB2	1.54	0.88
42:AI:349:THR:HG23	41:AJ:176:SER:HB2	1.54	0.88
7:1T:255:HIS:CA	42:MC:45:GLY:HA3	2.03	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DD:311:LEU:HB2	41:DD:370:ASN:HD22	1.37	0.88
42:MC:326:LYS:HE2	41:MD:219:THR:HA	1.56	0.88
41:OF:319:GLY:HA2	41:OF:357:PRO:HG3	1.53	0.88
41:CF:42:LEU:HD11	41:CF:243:PRO:HG3	1.54	0.88
42:EE:275:VAL:HA	42:EE:368:LEU:HD21	1.56	0.88
27:4P:247:MET:SD	41:AD:262:ARG:NH1	2.46	0.87
41:EL:324:LYS:HE3	42:EM:222:PRO:HD2	1.53	0.87
41:BD:100:ASN:HB2	41:BD:103:LYS:HB2	1.57	0.87
20:3O:379:TYR:HB2	41:EF:276:ARG:HH21	1.40	0.87
29:4Y:113:PHE:HE2	42:HI:215:ARG:HB3	1.38	0.87
42:HM:298:PRO:HB3	42:HM:307:PRO:HD2	1.54	0.87
41:DH:257:MET:HA	41:DH:312:THR:HG21	1.56	0.87
41:NB:255:VAL:HG21	42:NC:102:ASN:HD21	1.39	0.87
41:JD:317:PHE:HB2	41:JD:353:VAL:HG22	1.56	0.87
42:VE:168:GLU:HB3	42:VE:201:ALA:HA	1.55	0.87
41:DH:324:LYS:HB3	42:DI:221:ARG:HA	1.57	0.87
41:RJ:186:THR:HG21	41:RJ:385:PHE:HB2	1.57	0.87
42:GM:3:GLU:HG2	42:GM:129:CYS:HB3	1.57	0.87
42:NC:406:HIS:HE1	42:NC:407:TRP:NE1	1.73	0.87
33:5V:287:LEU:HA	33:5V:290:ILE:HG22	1.55	0.86
42:DK:269:LEU:HD23	42:DK:381:THR:HG22	1.57	0.86
41:QH:74:ASP:HA	41:QH:77:ARG:HD3	1.54	0.86
41:TJ:324:LYS:HZ2	42:TK:222:PRO:HD2	1.38	0.86
42:FK:204:VAL:HG13	42:FK:209:ILE:HD11	1.56	0.86
41:GJ:252:LYS:HG3	42:GK:101:ASN:HB2	1.55	0.86
42:PC:168:GLU:HB2	42:PC:201:ALA:HB2	1.57	0.86
41:DB:167:PHE:HE2	41:DB:233:MET:HB2	1.37	0.86
42:PC:134:GLY:HA3	42:PC:166:LYS:HA	1.57	0.86
33:5V:416:ASN:HD21	34:6A:171:THR:HG21	1.41	0.86
41:CD:64:VAL:HG21	41:CD:116:VAL:HG23	1.57	0.86
41:CF:132:GLY:HA2	41:CF:162:ARG:HB3	1.58	0.86
42:NK:3:GLU:HG3	42:NK:129:CYS:HB2	1.58	0.86
42:PC:87:PHE:HB3	42:PC:92:LEU:HD21	1.57	0.86
41:PJ:178:THR:HB	41:PJ:181:GLU:HG3	1.56	0.86
41:QL:238:THR:HG21	41:QL:318:ARG:HG2	1.57	0.86
42:AI:273:ALA:HB2	42:AI:375:VAL:HG12	1.57	0.86
41:FJ:324:LYS:HZ2	42:FK:223:THR:HA	1.40	0.86
42:PC:119:LEU:HD22	42:PC:153:LEU:CD1	2.06	0.86
41:QL:203:ASP:HB2	41:QL:301:ALA:HA	1.56	0.86
41:UJ:152:ILE:HD12	41:UJ:164:MET:HE1	1.58	0.86
9:2D:731:LEU:HD21	41:IN:320:ARG:HB3	1.57	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:CD:104:GLY:CA	41:CD:109:GLY:HA3	2.05	0.85
41:TH:324:LYS:HZ1	42:TI:221:ARG:HA	1.39	0.85
42:PC:119:LEU:CD2	42:PC:153:LEU:HD12	2.05	0.85
41:PF:395:LEU:HD12	41:PF:399:THR:HB	1.58	0.85
41:VD:189:VAL:HA	41:VD:192:LEU:HB2	1.57	0.85
34:6K:471:ASP:HA	35:6T:164:HIS:HE1	1.41	0.85
41:FL:314:ALA:HB3	41:FL:368:ILE:HG23	1.57	0.85
41:FD:55:THR:HB	41:GD:283:ALA:HA	1.56	0.85
41:JD:314:ALA:HB1	41:JD:350:LYS:HE3	1.58	0.85
42:MG:105:ARG:HA	42:MG:109:THR:HG23	1.57	0.85
16:3C:166:SER:HB2	42:VK:340:THR:HG21	1.57	0.85
33:5V:252:ASN:HB3	34:6A:320:LYS:HE3	1.57	0.85
42:NA:205:ASP:HB2	42:NA:303:VAL:HA	1.59	0.85
11:2L:252:ARG:HH12	42:UE:372:GLN:HE22	1.17	0.85
42:CC:88:HIS:HB3	42:CC:91:GLN:HB3	1.57	0.85
41:BJ:248:ALA:HA	41:BJ:252:LYS:HD2	1.58	0.85
42:PI:80:THR:HA	42:PI:84:ARG:HE	1.40	0.85
41:TJ:358:PRO:HG3	41:TJ:364:SER:HB3	1.57	0.85
9:2D:567:TYR:CZ	41:IN:276:ARG:NE	2.44	0.85
42:GM:56:THR:HG21	42:GM:60:LYS:HB3	1.59	0.84
41:HD:87:PRO:HD3	41:ID:281:TYR:HD1	1.39	0.84
42:TG:288:VAL:HG21	42:TG:327:ASP:HB3	1.57	0.84
41:DJ:55:THR:HA	41:EJ:284:LEU:HA	1.59	0.84
33:5V:305:ARG:HH12	35:6T:362:HIS:HB3	1.42	0.84
41:HJ:87:PRO:HD3	41:IJ:281:TYR:CD1	2.11	0.84
41:PJ:258:VAL:HG23	42:PK:407:TRP:HE1	1.40	0.84
42:VG:121:ARG:HA	42:VG:124:LYS:HG3	1.57	0.84
42:FK:67:PHE:HB2	42:FK:92:LEU:HD22	1.59	0.84
42:JK:273:ALA:HB2	42:JK:375:VAL:HG12	1.56	0.84
41:OB:104:GLY:HA2	41:OB:109:GLY:HA3	1.58	0.84
42:EK:204:VAL:HG13	42:EK:303:VAL:HG12	1.58	0.84
41:GL:2:ARG:N	41:GL:129:CYS:HG	1.75	0.84
42:PC:137:ILE:HB	42:PC:168:GLU:HB3	1.59	0.84
41:BD:314:ALA:HB3	41:BD:368:ILE:HG23	1.59	0.84
41:KD:248:ALA:HA	41:KD:252:LYS:HE3	1.60	0.84
41:EJ:252:LYS:HE3	42:EK:101:ASN:HB3	1.58	0.84
42:KM:3:GLU:HA	42:KM:51:THR:HA	1.60	0.84
41:NJ:324:LYS:HG2	42:NK:222:PRO:HD2	1.60	0.84
9:2D:567:TYR:CD1	41:IN:276:ARG:NE	2.45	0.84
21:3T:52:MET:SD	41:KD:337:ASN:ND2	2.51	0.84
41:DH:67:ASP:HA	41:DH:143:THR:HG21	1.58	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:QH:248:ALA:HB3	41:QH:352:ALA:HB2	1.60	0.84
42:CI:254:GLU:HG2	41:CJ:98:GLY:HA2	1.60	0.83
42:CK:271:THR:HB	42:CK:377:MET:HB3	1.60	0.83
41:GJ:104:GLY:HA3	41:GJ:146:GLY:HA3	1.59	0.83
42:NC:100:ALA:H	42:NC:105:ARG:HD2	1.42	0.83
41:PJ:207:LEU:HB3	41:PJ:225:LEU:HG	1.59	0.83
41:WH:311:LEU:HD12	41:WH:342:VAL:HG11	1.61	0.83
33:5R:294:HIS:HE2	33:5R:367:TYR:HH	1.23	0.83
34:6K:262:GLN:HB3	35:6V:10:LYS:HE3	1.59	0.83
42:NK:254:GLU:HG2	41:NL:98:GLY:HA2	1.59	0.83
42:WM:11:GLN:HG3	42:WM:74:VAL:HG21	1.60	0.83
42:EG:204:VAL:HG23	42:EG:302:MET:HB3	1.61	0.83
42:PC:119:LEU:HD22	42:PC:153:LEU:HD12	1.58	0.83
41:PD:46:ARG:HG2	41:PD:241:ARG:HA	1.61	0.83
41:RJ:101:TRP:HB2	41:RJ:184:ASN:HA	1.59	0.83
42:SK:56:THR:HG21	42:TK:285:GLN:HA	1.59	0.83
41:DJ:36:TYR:HB2	41:DJ:59:TYR:HE2	1.41	0.83
42:EK:188:ILE:HD11	42:EK:391:LEU:HB3	1.60	0.83
41:OB:81:PHE:HB3	41:OB:84:ILE:HD11	1.61	0.83
42:PG:106:GLY:HA2	42:PG:111:GLY:HA3	1.61	0.83
33:5W:13:ARG:HG3	33:5W:15:PRO:HD2	1.59	0.83
41:RJ:136:THR:HG22	41:RJ:167:PHE:HB2	1.58	0.83
42:DK:269:LEU:HD11	42:DK:384:ILE:HG13	1.60	0.83
41:RJ:103:LYS:HB2	41:RJ:108:GLU:HB2	1.61	0.82
41:BD:346:PRO:HD2	42:BE:398:MET:HG3	1.60	0.82
41:CH:130:LEU:HD22	41:CH:162:ARG:HG3	1.59	0.82
41:ED:309:ARG:H	41:ED:372:THR:HG22	1.42	0.82
9:2D:567:TYR:CG	41:IN:276:ARG:NE	2.48	0.82
42:FK:142:GLY:HA3	42:FK:172:TYR:CE2	2.14	0.82
41:GJ:258:VAL:HG23	42:GK:407:TRP:HE1	1.43	0.82
42:HE:90:GLU:HB3	42:HE:121:ARG:HE	1.44	0.82
42:PG:268:PRO:HA	42:PG:380:ASN:HA	1.59	0.82
42:HM:138:PHE:HZ	42:HM:235:VAL:HG21	1.44	0.82
41:WD:232:THR:HG21	41:WD:268:PRO:HB3	1.62	0.82
41:CD:20:PHE:HA	41:CD:230:SER:HB2	1.61	0.82
41:IN:258:VAL:HG22	41:IN:266:PHE:HZ	1.44	0.82
42:OI:195:LEU:HD21	42:OI:264:ARG:HH21	1.44	0.82
41:HF:255:VAL:HG11	42:HG:100:ALA:HB1	1.61	0.82
41:NL:399:THR:HA	41:NL:403:MET:HB2	1.60	0.82
41:JL:323:MET:SD	41:JL:353:VAL:HG21	2.20	0.82
42:LC:137:ILE:HB	42:LC:168:GLU:HG2	1.60	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:NE:258:ASN:HD21	42:NE:352:LYS:HE2	1.45	0.82
42:PI:8:HIS:HA	42:PI:138:PHE:HB2	1.61	0.82
34:6E:395:VAL:HG22	34:6F:281:VAL:HG11	1.62	0.82
41:QJ:7:LEU:HD11	41:QJ:133:PHE:HB3	1.59	0.82
9:2D:567:TYR:CE1	41:IN:276:ARG:NE	2.47	0.82
16:3C:216:PRO:HA	42:VM:339:ARG:HH22	1.45	0.82
41:IN:290:THR:HG21	41:IN:329:GLN:HG2	1.60	0.82
42:NC:406:HIS:CE1	42:NC:407:TRP:HE1	1.95	0.82
41:PJ:372:THR:HG21	41:PJ:426:GLN:HG3	1.61	0.82
41:TH:324:LYS:NZ	42:TI:221:ARG:HA	1.93	0.82
42:WI:3:GLU:HG3	42:WI:129:CYS:HB2	1.61	0.82
33:5W:14:LEU:HA	33:5W:17:TRP:HD1	1.44	0.81
41:SF:186:THR:HG21	41:SF:385:PHE:HB2	1.62	0.81
42:UI:56:THR:HA	42:VI:285:GLN:HE22	1.43	0.81
9:2D:567:TYR:CD2	41:IN:276:ARG:NE	2.38	0.81
41:CD:104:GLY:HA2	41:CD:109:GLY:CA	2.09	0.81
42:PG:265:ILE:HG13	42:PG:435:VAL:HG21	1.62	0.81
41:SH:322:SER:HB2	42:SI:221:ARG:HG3	1.60	0.81
41:AJ:251:ARG:HG2	42:AK:100:ALA:HB2	1.61	0.81
42:FM:109:THR:HG23	42:FM:110:ILE:HG13	1.63	0.81
41:DH:135:LEU:HD23	41:DH:166:THR:HG23	1.61	0.81
41:HD:2:ARG:HB2	41:HD:131:GLN:HB2	1.62	0.81
42:TI:311:LYS:HA	42:TI:342:GLN:HG3	1.61	0.81
20:3P:206:LYS:HG2	42:BI:58:ALA:HA	1.60	0.81
42:CG:288:VAL:HA	42:CG:291:ILE:HG12	1.61	0.81
42:DK:63:PRO:HG3	42:DK:86:LEU:HG	1.60	0.81
42:JK:56:THR:HG21	42:JK:60:LYS:HB3	1.60	0.81
41:PB:132:GLY:HA2	41:PB:162:ARG:HB3	1.62	0.81
41:PH:149:THR:HA	41:PH:152:ILE:HG12	1.61	0.81
41:PL:87:PRO:HD3	41:QL:281:TYR:HD2	1.45	0.81
8:1Z:115:LYS:HZ3	42:AG:264:ARG:HH11	1.24	0.81
41:GD:358:PRO:HG3	41:GD:364:SER:HB3	1.63	0.81
41:PJ:204:ASN:HB2	43:PJ:501:GDP:HN22	1.43	0.81
41:RF:323:MET:HG2	42:RG:224:TYR:CE1	2.16	0.81
42:SK:56:THR:HG23	42:TK:285:GLN:HG3	1.61	0.81
42:DK:311:LYS:H	42:DK:382:THR:HG22	1.45	0.81
42:HG:88:HIS:CD2	42:HG:90:GLU:HB2	2.16	0.81
41:OB:60:VAL:HG11	41:PB:281:TYR:HB3	1.59	0.81
41:EL:131:GLN:HE22	41:EL:250:LEU:HB2	1.44	0.80
42:PK:12:ALA:HA	45:PK:501:GTP:HN22	1.45	0.80
42:RE:88:HIS:HB3	42:RE:91:GLN:HG3	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:SL:54:ALA:HB3	41:SL:58:LYS:HB3	1.63	0.80
42:UE:261:PRO:HB2	42:UE:265:ILE:HG13	1.63	0.80
34:6E:393:LEU:HD21	34:6E:424:VAL:HA	1.62	0.80
41:AL:3:GLU:HG3	41:AL:127:CYS:HB2	1.61	0.80
41:GF:375:GLN:HE22	41:GF:419:VAL:HA	1.44	0.80
41:PL:203:ASP:HB2	41:PL:301:ALA:HA	1.63	0.80
34:6C:358:LYS:HG2	34:6C:462:LYS:HB3	1.61	0.80
41:QF:265:PHE:HB3	41:QF:374:ILE:HD13	1.64	0.80
42:TI:104:ALA:HA	42:TI:108:TYR:CD2	2.15	0.80
41:DF:319:GLY:HA2	41:DF:357:PRO:HD3	1.61	0.80
41:DJ:7:LEU:HB3	41:DJ:135:LEU:HG	1.62	0.80
41:HD:42:LEU:CD2	41:HD:356:ILE:HD11	2.07	0.80
42:HM:274:PRO:HB2	42:HM:371:VAL:HG11	1.62	0.80
42:UC:88:HIS:HB3	42:UC:90:GLU:HG2	1.64	0.80
42:WI:244:PHE:HB2	42:WI:356:ASN:HD21	1.46	0.80
34:6G:116:ASN:HA	34:6G:119:ARG:HE	1.46	0.80
41:DL:213:ARG:HH22	41:DL:297:LYS:HB3	1.46	0.80
42:EK:231:ILE:HD11	45:EK:501:GTP:HN21	1.46	0.80
41:PL:318:ARG:HE	41:PL:358:PRO:HG3	1.47	0.80
42:UG:28:HIS:HB2	42:UG:243:ARG:HH22	1.45	0.80
34:6A:94:TYR:CD2	34:6B:208:ILE:HD12	2.16	0.80
42:EE:247:ALA:HB1	41:EF:222:TYR:CE2	2.16	0.80
42:FG:258:ASN:HD22	42:FG:352:LYS:HZ2	1.29	0.80
42:PG:399:TYR:H	42:PG:402:ARG:HB3	1.46	0.80
41:PL:61:PRO:HG3	41:PL:85:PHE:HA	1.63	0.80
42:DK:273:ALA:HB2	42:DK:295:CYS:HB2	1.64	0.80
41:RJ:186:THR:HG22	41:RJ:381:ILE:HG23	1.63	0.80
22:4A:192:PHE:CZ	41:DJ:322:SER:HA	2.17	0.80
41:BL:281:TYR:CD1	41:BL:281:TYR:CE1	2.70	0.80
41:HL:252:LYS:HG2	42:HM:100:ALA:HA	1.62	0.80
41:AH:132:GLY:HA3	41:AH:163:ILE:O	1.82	0.80
41:HD:271:ALA:HB3	41:HD:272:PRO:HD3	1.64	0.80
41:PJ:1:MET:HG3	42:PK:96:LYS:HG3	1.62	0.80
34:6E:389:LYS:HE2	34:6E:431:ILE:HG12	1.63	0.79
41:NH:49:VAL:HG21	41:NH:241:ARG:HB3	1.64	0.79
41:OF:49:VAL:HG11	41:OF:241:ARG:HB3	1.63	0.79
42:DI:346:TRP:HZ2	41:DJ:393:ALA:HA	1.48	0.79
42:PG:25:CYS:HB2	42:PG:30:ILE:HG21	1.62	0.79
42:RE:7:VAL:HB	42:RE:137:ILE:HG12	1.62	0.79
36:6Y:111:ARG:HE	36:6Y:112:PRO:HD2	1.47	0.79
42:EE:54:SER:HB3	42:EE:62:VAL:HG13	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:GD:181:GLU:HG3	41:GD:182:PRO:HD3	1.64	0.79
41:HL:312:THR:HG21	42:HM:404:PHE:HZ	1.47	0.79
33:5V:292:GLU:HB3	33:5W:39:ARG:NH2	1.97	0.79
34:6C:293:THR:HG21	34:6D:413:ARG:HB2	1.63	0.79
42:AK:3:GLU:HG3	42:AK:129:CYS:HB3	1.63	0.79
42:EG:274:PRO:HG3	42:EG:374:ALA:HA	1.62	0.79
42:FC:278:ALA:HA	42:FC:369:ALA:HB2	1.64	0.79
41:MN:181:GLU:HG2	41:MN:182:PRO:HD3	1.64	0.79
42:TM:322:ASP:HB3	42:TM:372:GLN:HG3	1.64	0.79
42:CC:237:SER:HA	42:CC:320:ARG:HD3	1.64	0.79
42:EE:328:VAL:HG11	42:EE:355:ILE:HD11	1.63	0.79
41:HD:54:ALA:HA	41:ID:283:ALA:HB2	1.64	0.79
42:NC:406:HIS:NE2	42:NC:407:TRP:HD1	1.78	0.79
41:PB:61:PRO:HD3	41:PB:84:ILE:HG12	1.65	0.79
41:QH:200:TYR:HB3	41:QH:268:PRO:HG3	1.65	0.79
41:WL:379:LYS:HE3	41:WL:419:VAL:HG11	1.65	0.79
22:3Z:90:PRO:HG2	42:AI:89:PRO:HG3	1.63	0.79
24:4G:303:LEU:HG	42:HI:364:PRO:HG3	1.64	0.79
42:DK:93:ILE:HG13	42:DK:118:VAL:HG22	1.64	0.79
41:FJ:318:ARG:HB2	41:FJ:364:SER:HB3	1.64	0.79
42:FM:271:THR:HB	42:FM:377:MET:HB3	1.64	0.79
41:PH:104:GLY:HA2	41:PH:109:GLY:HA3	0.84	0.79
41:TH:248:ALA:HA	41:TH:252:LYS:HD3	1.62	0.79
42:FK:288:VAL:HG11	42:FK:327:ASP:HB2	1.65	0.79
42:OK:339:ARG:HD3	42:OK:340:THR:H	1.47	0.79
41:FL:323:MET:HG2	42:FM:224:TYR:HE1	1.47	0.79
41:HJ:101:TRP:HZ3	41:HJ:183:TYR:HB3	1.47	0.79
41:RL:5:VAL:HG22	41:RL:62:ARG:HE	1.48	0.79
42:HG:262:TYR:HB2	42:HG:265:ILE:HG12	1.65	0.79
41:UF:308:GLY:HA2	41:UF:426:GLN:HE22	1.48	0.79
41:BD:206:ALA:HB2	41:BD:302:ALA:HB2	1.63	0.79
42:CC:262:TYR:HB2	42:CC:265:ILE:HG12	1.65	0.79
33:5S:17:TRP:HH2	33:5T:126:ILE:HG23	1.48	0.78
42:EC:396:ASP:HB3	42:EC:422:ARG:HH12	1.47	0.78
42:FG:213:CYS:SG	42:FG:222:PRO:HG3	2.23	0.78
42:GM:186:ASN:HA	42:GM:189:LEU:HD11	1.65	0.78
42:IG:121:ARG:HA	42:IG:124:LYS:HZ3	1.48	0.78
42:PA:68:VAL:HG13	42:PA:93:ILE:HB	1.66	0.78
42:QK:319:TYR:HB3	42:QK:323:VAL:HG11	1.65	0.78
41:SF:178:THR:HB	41:SF:181:GLU:HB3	1.65	0.78
41:CB:324:LYS:HG2	42:CC:222:PRO:HD2	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:HI:348:PRO:HB2	41:HJ:384:GLN:HG2	1.64	0.78
42:NK:274:PRO:HG2	42:NK:371:VAL:HG21	1.65	0.78
41:PJ:5:VAL:HG23	41:PJ:130:LEU:HD11	1.63	0.78
42:SC:4:CYS:SG	42:SC:133:GLN:NE2	2.57	0.78
41:DJ:345:ILE:HD11	42:DK:181:VAL:HG21	1.64	0.78
42:DK:349:THR:HG21	41:DL:182:PRO:HD3	1.65	0.78
42:DM:332:ILE:HA	42:DM:335:ILE:HG12	1.66	0.78
41:HD:268:PRO:HG2	41:HD:300:MET:HB2	1.65	0.78
41:JJ:256:ASN:HD22	41:JJ:350:LYS:HD3	1.48	0.78
41:PF:1:MET:HG3	42:PG:72:PRO:HG3	1.63	0.78
34:6C:300:TRP:HA	34:6D:409:ILE:HD11	1.65	0.78
41:FJ:344:TRP:HZ2	42:FK:400:ALA:HB3	1.49	0.78
41:FJ:2:ARG:HB3	41:FJ:131:GLN:HB2	1.65	0.78
41:QF:178:THR:HB	41:QF:181:GLU:HG2	1.66	0.78
42:TK:78:VAL:HB	42:TK:92:LEU:HD21	1.65	0.78
31:5G:128:CYS:CA	42:PI:279:GLU:HB3	2.13	0.78
34:6F:394:LYS:HD2	34:6G:283:TYR:HD1	1.49	0.78
42:FK:142:GLY:HA3	42:FK:172:TYR:HE2	1.48	0.78
42:OI:175:PRO:HB3	42:OI:390:ARG:HD2	1.64	0.78
42:QI:271:THR:HG23	42:QI:300:ASN:HB2	1.65	0.78
42:BC:132:LEU:HD22	42:BC:164:LYS:HD3	1.64	0.78
41:LN:284:LEU:HD21	41:MN:54:ALA:HA	1.66	0.78
41:MN:310:TYR:HA	41:MN:371:SER:HA	1.66	0.78
42:PG:236:SER:HA	42:PG:239:THR:HG22	1.64	0.78
41:PJ:202:ILE:HG21	41:PJ:229:VAL:HB	1.66	0.78
42:SM:105:ARG:HE	42:SM:110:ILE:HD13	1.49	0.78
42:TK:200:CYS:HA	42:TK:266:HIS:HB2	1.64	0.78
41:UD:212:PHE:O	41:UD:216:LYS:HA	1.84	0.78
8:2A:85:LYS:HA	27:4R:252:GLU:HG2	1.63	0.78
22:4C:187:ARG:NH2	41:CF:57:GLY:HA2	1.99	0.78
42:HC:317:LEU:HG	42:HC:377:MET:HB3	1.66	0.78
42:JK:62:VAL:HG13	42:MK:283:HIS:CD2	2.19	0.78
42:PG:256:GLN:HA	42:PG:259:LEU:HB3	1.66	0.78
42:TK:195:LEU:HD11	42:TK:428:LEU:HD11	1.66	0.78
35:6R:127:GLU:OE1	35:6R:272:ARG:HA	1.84	0.78
41:CJ:104:GLY:HA2	41:CJ:109:GLY:HA3	1.65	0.78
42:HE:271:THR:HB	42:HE:377:MET:HB3	1.64	0.78
42:HI:195:LEU:HD21	42:HI:264:ARG:HE	1.48	0.78
42:HM:62:VAL:HG21	42:IM:283:HIS:HB3	1.66	0.78
42:OC:271:THR:HB	42:OC:377:MET:HB3	1.66	0.78
41:PD:190:HIS:HA	41:PD:414:ASN:HD21	1.48	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:UJ:375:GLN:HB2	41:UJ:419:VAL:HG23	1.66	0.78
41:VD:107:THR:HG21	41:VD:401:GLU:HB2	1.66	0.78
19:3J:421:ARG:HH12	42:EC:43:GLY:HA2	1.48	0.77
22:3Y:93:THR:OG1	41:AD:1:MET:SD	2.41	0.77
31:5G:21:GLN:HB3	31:5G:65:ARG:HH12	1.49	0.77
41:OJ:61:PRO:HD3	41:OJ:84:ILE:HG13	1.66	0.77
42:PA:214:ARG:HG3	42:PA:220:GLU:HA	1.66	0.77
42:CK:29:GLY:HA3	42:CK:42:ILE:HG21	1.64	0.77
42:EG:323:VAL:HG23	42:EG:355:ILE:HG23	1.66	0.77
41:HF:314:ALA:HA	41:HF:350:LYS:HB3	1.66	0.77
42:NI:323:VAL:HG23	42:NI:355:ILE:HG23	1.66	0.77
41:GD:103:LYS:HA	41:GD:107:THR:HG23	1.66	0.77
41:HJ:102:ALA:HB1	41:HJ:401:GLU:HB3	1.67	0.77
42:NE:137:ILE:HB	42:NE:168:GLU:HG2	1.65	0.77
41:PJ:290:THR:HA	41:PJ:293:MET:HG2	1.66	0.77
42:PK:15:GLN:HB2	45:PK:501:GTP:HN21	1.47	0.77
41:QL:266:PHE:HA	41:QL:370:ASN:HA	1.64	0.77
41:CJ:330:MET:HG2	41:CJ:349:VAL:HG21	1.65	0.77
41:MJ:45:GLU:HG3	41:MJ:46:ARG:HD2	1.66	0.77
42:NC:102:ASN:HB2	42:NC:105:ARG:HB3	1.66	0.77
41:QH:214:THR:HG21	41:QH:273:LEU:HB3	1.66	0.77
34:6L:400:LEU:HD21	34:6L:420:LEU:HB3	1.67	0.77
41:OB:286:VAL:HG23	41:OB:329:GLN:HE21	1.49	0.77
41:QH:124:ALA:HA	41:QH:130:LEU:HD21	1.67	0.77
41:UL:322:SER:HA	42:UM:223:THR:HG22	1.66	0.77
22:3Y:84:LEU:HD12	22:3Y:86:SER:H	1.49	0.77
42:AK:104:ALA:HB1	42:AK:411:GLU:HB2	1.65	0.77
41:IN:237:THR:HG22	41:IN:240:LEU:HD13	1.66	0.77
41:QB:86:ARG:HG2	41:QB:89:ASN:HB2	1.67	0.77
41:UD:216:LYS:HB3	41:UD:216:LYS:HZ2	1.49	0.77
29:4Y:113:PHE:CE2	42:HI:215:ARG:HB3	2.19	0.77
38:7H:60:VAL:HB	42:HK:96:LYS:HB2	1.67	0.77
42:CG:244:PHE:HB2	42:CG:356:ASN:HD21	1.50	0.77
42:EK:201:ALA:HB2	42:EK:267:PHE:HA	1.66	0.77
42:JI:54:SER:HB3	42:JI:64:ARG:HE	1.50	0.77
42:MK:3:GLU:HA	42:MK:51:THR:HA	1.67	0.77
42:PG:139:HIS:HB3	42:PG:150:THR:HG21	1.66	0.77
41:RF:372:THR:HG21	41:RF:426:GLN:HA	1.66	0.77
41:CJ:116:VAL:HG11	41:CJ:151:LEU:HD21	1.66	0.77
41:LD:3:GLU:HG3	41:LD:127:CYS:HB3	1.67	0.77
42:TM:63:PRO:HG2	42:TM:91:GLN:HE22	1.50	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:UL:172:SER:HB2	41:UL:205:GLU:HG2	1.66	0.77
42:CG:106:GLY:HA2	42:CG:111:GLY:HA3	1.66	0.77
42:DK:276:ILE:HG13	42:DK:280:LYS:HB2	1.67	0.77
41:GJ:346:PRO:HB3	42:GK:394:LYS:HD2	1.64	0.77
41:NB:324:LYS:NZ	42:NC:221:ARG:HA	2.00	0.77
42:PI:187:SER:HB2	42:PI:391:LEU:HD21	1.67	0.77
42:QI:262:TYR:HE1	41:QJ:393:ALA:HA	1.48	0.77
41:SD:317:PHE:HB2	41:SD:353:VAL:HG12	1.67	0.77
41:DH:66:VAL:HG13	41:DH:91:VAL:HB	1.67	0.77
42:DK:75:ILE:HG23	42:DK:79:ARG:HH12	1.50	0.77
42:HE:212:ILE:HG12	42:HE:275:VAL:HG11	1.67	0.77
20:3Q:569:ARG:NH1	20:3Q:573:MET:SD	2.57	0.76
41:BL:281:TYR:CD2	41:BL:281:TYR:CE2	2.73	0.76
42:CM:298:PRO:HG2	42:CM:308:ARG:HE	1.50	0.76
42:DK:91:GLN:HE22	42:DK:125:LEU:HD11	1.50	0.76
42:JK:137:ILE:HG22	42:JK:168:GLU:HA	1.67	0.76
42:MI:420:GLU:HA	42:MI:423:GLU:HG2	1.67	0.76
41:PB:86:ARG:HB3	41:PB:89:ASN:HB3	1.67	0.76
41:SL:3:GLU:HG3	41:SL:127:CYS:HB3	1.65	0.76
41:TJ:334:GLN:HG2	41:TJ:341:PHE:HE1	1.49	0.76
42:CC:106:GLY:HA3	42:CC:148:GLY:HA3	1.65	0.76
41:DH:1:MET:HG2	41:DH:2:ARG:HG2	1.67	0.76
42:FI:217:LEU:HD21	42:FI:367:ASP:HB3	1.67	0.76
42:HM:319:TYR:HB3	42:HM:323:VAL:HG21	1.66	0.76
41:NJ:2:ARG:HB3	41:NJ:131:GLN:HE22	1.49	0.76
42:UK:336:LYS:HA	42:UK:343:PHE:HE2	1.49	0.76
5:1N:32:ILE:HG21	41:KD:379:LYS:HG3	1.66	0.76
33:5V:245:LEU:CD2	34:6A:327:ASN:ND2	2.48	0.76
42:BI:273:ALA:HB3	42:BI:274:PRO:HD3	1.68	0.76
41:FJ:345:ILE:HG22	42:FK:398:MET:HG2	1.68	0.76
41:IN:330:MET:HG2	41:IN:349:VAL:HG11	1.68	0.76
41:LH:285:THR:HG22	41:LH:287:PRO:HD2	1.68	0.76
41:OF:268:PRO:HG2	41:OF:300:MET:HB2	1.67	0.76
42:UK:15:GLN:HA	42:UK:18:ASN:HB2	1.67	0.76
42:EG:213:CYS:HB3	42:EG:219:ILE:HD12	1.67	0.76
41:LD:186:THR:HA	41:LD:415:MET:HE1	1.66	0.76
41:QL:54:ALA:HA	41:RL:283:ALA:HA	1.66	0.76
41:CD:235:GLY:HA2	41:CD:238:THR:HG23	1.67	0.76
42:EK:75:ILE:HG23	42:EK:92:LEU:HD22	1.65	0.76
42:FE:239:THR:HG23	42:FE:242:LEU:HD12	1.65	0.76
42:HC:56:THR:CA	42:IC:285:GLN:HB3	2.13	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:IN:45:GLU:HG3	41:IN:46:ARG:HG2	1.68	0.76
41:MN:317:PHE:HA	41:MN:365:ALA:HA	1.66	0.76
42:OK:371:VAL:HG12	42:OK:373:ARG:H	1.51	0.76
41:PJ:1:MET:HG2	42:PK:72:PRO:HG3	1.67	0.76
41:CF:42:LEU:HD21	41:CF:243:PRO:HD3	1.68	0.76
42:FC:101:ASN:HA	42:FC:144:GLY:H	1.51	0.76
41:FL:34:GLY:HA3	41:FL:58:LYS:HD2	1.67	0.76
42:GC:135:PHE:HB2	42:GC:166:LYS:HG3	1.68	0.76
41:PB:108:GLU:HG2	41:PB:111:GLU:HG2	1.68	0.76
41:RF:193:VAL:HG21	41:RF:418:LEU:HG	1.68	0.76
9:2D:567:TYR:CD1	41:IN:276:ARG:HD3	2.19	0.76
37:7D:49:PRO:HB2	37:7D:51:TYR:HE1	1.49	0.76
41:CF:87:PRO:HD3	41:DF:281:TYR:CD2	2.21	0.76
42:EE:187:SER:HB2	42:EE:391:LEU:HD21	1.65	0.76
42:JK:180:ALA:HB3	42:JK:183:GLU:HG2	1.68	0.76
33:5V:252:ASN:HD22	34:6A:320:LYS:HE3	1.51	0.76
41:BH:324:LYS:CD	42:BI:222:PRO:HD2	2.13	0.76
42:DM:71:GLU:HB3	42:DM:98:ASP:HB3	1.66	0.76
41:HL:213:ARG:HB3	41:HL:297:LYS:HZ1	1.51	0.76
41:OF:61:PRO:HD3	41:OF:84:ILE:HG13	1.68	0.76
42:PG:87:PHE:HB3	42:PG:92:LEU:HD11	1.66	0.76
42:WI:71:GLU:HG2	42:WI:98:ASP:HB3	1.67	0.76
41:BD:372:THR:HG21	41:BD:426:GLN:HB2	1.66	0.76
41:OD:237:THR:HG23	41:OD:240:LEU:HD22	1.66	0.76
42:UE:276:ILE:HG13	42:UE:286:LEU:HD11	1.68	0.76
34:6C:361:ILE:HG21	34:6C:458:ASP:HB3	1.67	0.76
42:BE:88:HIS:HE1	42:CE:280:LYS:HB2	1.50	0.76
41:DL:104:GLY:HA3	41:DL:146:GLY:HA3	1.67	0.76
42:FE:253:THR:HG23	42:FE:256:GLN:HE21	1.49	0.76
42:KK:257:THR:HG21	41:KL:100:ASN:HD21	1.51	0.76
41:PJ:64:VAL:HG11	41:PJ:120:VAL:HG23	1.68	0.76
41:UL:314:ALA:HB3	41:UL:368:ILE:HB	1.67	0.76
41:VL:362:LYS:HD2	41:VL:363:MET:HG3	1.68	0.76
34:6L:198:CYS:SG	34:6L:477:ARG:NH2	2.59	0.75
42:AG:205:ASP:HB2	42:AG:303:VAL:HG23	1.67	0.75
41:EF:334:GLN:HE21	41:EF:349:VAL:HG13	1.52	0.75
42:NK:298:PRO:HG3	42:NK:308:ARG:HE	1.50	0.75
41:PJ:149:THR:HA	41:PJ:152:ILE:HG12	1.67	0.75
41:QL:358:PRO:HG2	41:QL:364:SER:HB3	1.68	0.75
41:RD:269:GLY:HA2	41:RD:300:MET:HG3	1.68	0.75
42:BE:88:HIS:HB3	42:BE:91:GLN:HG2	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CG:10:GLY:HA2	42:CG:145:THR:HG23	1.68	0.75
42:FE:168:GLU:HB3	42:FE:201:ALA:HA	1.68	0.75
42:GM:26:LEU:HD13	42:GM:364:PRO:HD2	1.68	0.75
42:KI:292:THR:HG21	42:KI:331:ALA:HB1	1.68	0.75
42:QE:385:ALA:HA	42:QE:388:TRP:HD1	1.51	0.75
41:QL:74:ASP:HA	41:QL:77:ARG:HB3	1.68	0.75
34:6A:190:ALA:HB3	34:6A:191:PRO:HD3	1.68	0.75
41:FL:309:ARG:CZ	41:FL:342:VAL:HB	2.15	0.75
42:GM:172:TYR:OH	42:GM:388:TRP:CD1	2.38	0.75
42:MC:141:PHE:HB2	42:MC:173:PRO:HD3	1.68	0.75
22:4C:28:ARG:HH22	41:CF:287:PRO:HG3	1.49	0.75
33:5V:252:ASN:HD22	34:6A:320:LYS:CE	1.99	0.75
42:BK:248:LEU:HA	41:BL:11:GLN:HE22	1.51	0.75
41:DJ:91:VAL:HG11	41:DJ:116:VAL:HB	1.68	0.75
42:FC:3:GLU:HG3	42:FC:129:CYS:HB3	1.67	0.75
41:FL:49:VAL:HG13	41:FL:50:TYR:H	1.50	0.75
42:HI:66:VAL:HG21	42:HI:122:ILE:HG12	1.67	0.75
41:KD:70:PRO:HD3	41:KD:92:PHE:HB2	1.68	0.75
42:NG:359:PRO:HB2	42:NG:370:LYS:HZ3	1.51	0.75
8:2A:84:LYS:HD2	27:4R:254:CYS:HA	1.67	0.75
12:2Q:112:LEU:HD21	42:VK:42:ILE:HA	1.67	0.75
41:DD:1:MET:HG3	41:DD:2:ARG:HG3	1.67	0.75
41:HD:42:LEU:HD23	41:HD:356:ILE:CD1	2.07	0.75
42:KK:251:ASP:H	42:KK:254:GLU:HG3	1.50	0.75
42:UG:3:GLU:HA	42:UG:51:THR:HA	1.67	0.75
33:5S:77:MET:C	33:5S:79:ASP:H	1.88	0.75
41:CJ:44:LEU:HD12	41:CJ:47:ILE:HD13	1.69	0.75
42:EM:313:MET:H	42:EM:381:THR:HA	1.51	0.75
41:JJ:256:ASN:HD21	42:JK:180:ALA:HA	1.52	0.75
41:MN:253:LEU:HD22	41:MN:368:ILE:HD11	1.68	0.75
23:4D:88:GLU:HG3	41:TJ:245:GLN:HB3	1.68	0.75
27:4S:247:MET:SD	41:AJ:262:ARG:NH1	2.60	0.75
42:DE:88:HIS:HB3	42:DE:91:GLN:HB2	1.67	0.75
42:EK:174:ALA:H	42:EK:205:ASP:HB3	1.50	0.75
41:OJ:104:GLY:CA	41:OJ:109:GLY:HA3	2.15	0.75
41:SH:239:CYS:HB3	41:SH:248:ALA:H	1.52	0.75
42:SM:68:VAL:HG22	42:SM:93:ILE:HB	1.68	0.75
41:TF:171:PRO:HG2	41:TF:185:ALA:HB2	1.69	0.75
41:AH:101:TRP:HD1	41:AH:145:SER:HB3	1.52	0.75
42:FC:180:ALA:HB3	42:FC:183:GLU:HB2	1.68	0.75
41:FJ:344:TRP:NE1	42:FK:401:LYS:HB2	2.02	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:MF:313:VAL:HG22	41:MF:367:PHE:HE1	1.51	0.75
41:PJ:97:ALA:HB2	41:PJ:143:THR:HB	1.68	0.75
42:QG:30:ILE:HG21	42:QG:53:PHE:HE2	1.50	0.75
41:CF:117:LEU:HD11	41:CF:154:LYS:HB3	1.69	0.75
42:FK:161:TYR:CB	42:FK:163:LYS:NZ	2.23	0.75
42:UI:301:GLN:HE21	42:UI:307:PRO:HG3	1.52	0.75
22:4B:103:PHE:HB3	41:BL:322:SER:HB3	1.68	0.74
27:4O:39:SER:HB2	27:4O:53:VAL:HG12	1.67	0.74
42:CG:63:PRO:HD3	42:CG:86:LEU:HG	1.68	0.74
41:EH:182:PRO:HB3	41:EH:384:GLN:HB3	1.68	0.74
41:FL:237:THR:HA	41:FL:240:LEU:HD13	1.67	0.74
41:FL:258:VAL:HG22	41:FL:266:PHE:HZ	1.52	0.74
42:RG:107:HIS:HA	42:RG:152:LEU:HB2	1.68	0.74
42:SE:5:ILE:HG12	42:SE:132:LEU:HD11	1.68	0.74
41:ND:385:PHE:HZ	41:ND:408:PHE:HB3	1.52	0.74
41:OD:1:MET:SD	42:OE:96:LYS:NZ	2.60	0.74
42:PG:70:LEU:HA	42:PG:95:GLY:HA3	1.69	0.74
41:PL:105:HIS:HA	41:PL:150:LEU:HG	1.70	0.74
41:QJ:13:GLY:HA2	41:QJ:16:ILE:HG13	1.69	0.74
41:TD:165:ASN:HD21	41:TD:250:LEU:HD11	1.52	0.74
41:UD:3:GLU:HG3	41:UD:127:CYS:HB3	1.69	0.74
3:1I:182:GLN:HE21	41:TJ:360:GLY:HA2	1.52	0.74
10:2G:168:PHE:CE2	42:WI:220:GLU:HB3	2.22	0.74
41:FD:178:THR:HG23	41:FD:181:GLU:HB2	1.68	0.74
42:FI:69:ASP:H	42:FI:94:THR:HG22	1.53	0.74
41:ND:202:ILE:HG12	41:ND:268:PRO:HG3	1.69	0.74
42:OG:107:HIS:HA	42:OG:152:LEU:HD22	1.66	0.74
42:QI:268:PRO:HA	42:QI:380:ASN:HA	1.69	0.74
41:QL:308:GLY:HA3	41:QL:373:ALA:HB2	1.67	0.74
42:SE:291:ILE:HD13	42:SE:375:VAL:HG23	1.70	0.74
13:2S:146:GLN:HE22	41:GH:32:PRO:HD2	1.53	0.74
41:AB:178:THR:HB	41:AB:181:GLU:HB2	1.69	0.74
41:AJ:48:ASN:O	41:AJ:62:ARG:NH2	2.20	0.74
41:ED:103:LYS:HA	41:ED:107:THR:OG1	1.87	0.74
42:HE:71:GLU:HB2	42:HE:98:ASP:HB3	1.68	0.74
41:OB:170:VAL:HG22	41:OB:171:PRO:HD2	1.68	0.74
41:OF:354:CYS:SG	41:OF:355:ASP:N	2.58	0.74
41:OH:105:HIS:HA	41:OH:150:LEU:HD23	1.68	0.74
41:SF:313:VAL:HA	41:SF:369:GLY:HA2	1.70	0.74
41:UL:245:GLN:O	42:UM:11:GLN:NE2	2.20	0.74
20:3O:519:MET:SD	20:3O:583:GLN:NE2	2.60	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:6E:402:GLU:HG3	34:6F:267:ILE:HG23	1.68	0.74
42:FC:280:LYS:HA	42:FC:283:HIS:CE1	2.23	0.74
41:GD:171:PRO:HG2	41:GD:185:ALA:HB2	1.68	0.74
42:PE:228:ASN:HD21	45:PE:501:GTP:HN1	1.35	0.74
41:PF:61:PRO:HG2	41:PF:84:ILE:HB	1.68	0.74
42:PG:239:THR:HG23	42:PG:243:ARG:HD2	1.67	0.74
42:RG:393:HIS:HA	42:RG:396:ASP:HB2	1.68	0.74
42:SM:316:CYS:HB3	42:SM:378:LEU:HB2	1.70	0.74
41:UF:87:PRO:HD3	41:VF:281:TYR:HD2	1.53	0.74
41:VD:3:GLU:HB3	41:VD:130:LEU:HA	1.68	0.74
42:QK:262:TYR:HA	41:QL:396:HIS:CE1	2.21	0.74
41:RL:3:GLU:HB3	41:RL:62:ARG:HH22	1.51	0.74
42:WK:238:ILE:HG23	42:WK:255:PHE:HE2	1.52	0.74
42:HC:188:ILE:HD13	42:HC:395:PHE:HB2	1.69	0.74
41:SJ:169:VAL:HA	41:SJ:202:ILE:HB	1.70	0.74
24:4F:115:ARG:NH1	24:4G:448:GLU:OE2	2.21	0.74
34:6K:139:GLN:NE2	34:6K:143:THR:OG1	2.21	0.74
37:7C:225:LYS:HG3	42:TG:299:ALA:HB2	1.68	0.74
41:DH:104:GLY:HA3	41:DH:146:GLY:HA3	1.69	0.74
41:ED:27:GLU:HA	41:ED:359:ARG:HD3	1.70	0.74
42:FC:274:PRO:HG2	42:FC:374:ALA:HA	1.69	0.74
41:FD:268:PRO:HG2	41:FD:300:MET:HB2	1.69	0.74
42:GM:104:ALA:HA	42:GM:108:TYR:HD2	1.52	0.74
42:HC:313:MET:HB3	42:HC:346:TRP:HZ2	1.53	0.74
42:NC:406:HIS:CE1	42:NC:407:TRP:CE2	2.75	0.74
41:TH:324:LYS:HZ1	42:TI:222:PRO:HD2	1.53	0.74
22:3Y:87:SER:HA	42:AE:84:ARG:HH11	1.51	0.74
42:BG:5:ILE:HG22	42:BG:64:ARG:HB3	1.68	0.74
41:ED:183:TYR:HE1	41:ED:388:MET:HB3	1.53	0.74
41:GJ:49:VAL:HG11	41:GJ:241:ARG:HG2	1.68	0.74
41:HJ:206:ALA:HB2	41:HJ:302:ALA:HB2	1.68	0.74
42:OK:271:THR:HB	42:OK:377:MET:HB3	1.69	0.74
42:PG:195:LEU:HA	42:PG:266:HIS:HE1	1.53	0.74
42:RE:346:TRP:CZ2	41:RF:393:ALA:HA	2.21	0.74
41:TH:137:HIS:CE1	41:TH:166:THR:HB	2.22	0.74
31:5G:110:ASP:HB3	31:5G:136:GLY:HA3	1.70	0.74
33:5V:245:LEU:HD21	34:6A:327:ASN:HD22	1.52	0.74
41:DJ:259:PRO:HB3	41:DJ:344:TRP:HH2	1.51	0.74
42:HE:9:VAL:HG23	42:HE:139:HIS:HB3	1.69	0.74
41:HJ:313:VAL:HG22	41:HJ:367:PHE:HE2	1.53	0.74
42:II:392:ASP:OD2	42:II:422:ARG:NH1	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:LL:256:ASN:HB2	42:LM:181:VAL:HB	1.69	0.74
42:NG:206:ASN:HA	42:NG:209:ILE:HD12	1.70	0.74
42:PG:172:TYR:HB2	42:PG:203:MET:HB3	1.68	0.74
42:QI:274:PRO:HB3	42:QI:291:ILE:HD11	1.70	0.74
41:QJ:152:ILE:HG23	41:QJ:156:ARG:HH21	1.51	0.74
41:RD:319:GLY:H	41:RD:354:CYS:HB3	1.53	0.74
42:VG:214:ARG:HH21	42:VG:215:ARG:HH12	1.36	0.74
42:CG:106:GLY:HA2	42:CG:111:GLY:CA	2.18	0.73
41:CH:67:ASP:HA	41:CH:143:THR:HG21	1.70	0.73
41:DB:276:ARG:NH1	41:DB:279:GLN:OE1	2.21	0.73
41:DH:259:PRO:HB2	41:DH:261:PRO:HD3	1.70	0.73
41:ED:310:TYR:HA	41:ED:371:SER:HA	1.68	0.73
42:FK:345:ASP:HB2	42:FK:440:VAL:HB	1.70	0.73
41:LL:318:ARG:HD3	41:LL:358:PRO:HD3	1.69	0.73
41:MD:334:GLN:HE22	41:MD:348:ASN:HB2	1.52	0.73
42:MK:274:PRO:HG2	42:MK:374:ALA:HA	1.69	0.73
42:SC:311:LYS:H	42:SC:382:THR:HB	1.53	0.73
41:TJ:317:PHE:HB2	41:TJ:353:VAL:HG12	1.69	0.73
22:3Y:56:ARG:HG3	41:BD:42:LEU:HD22	1.69	0.73
37:7C:236:VAL:HG21	41:TF:333:VAL:HA	1.69	0.73
41:DJ:244:GLY:HA2	41:DJ:355:ASP:HB2	1.68	0.73
41:DJ:324:LYS:HB3	42:DK:222:PRO:HD2	1.67	0.73
41:DL:46:ARG:NH2	42:DM:72:PRO:O	2.22	0.73
41:ED:131:GLN:HG3	41:ED:163:ILE:HD12	1.71	0.73
41:MF:159:TYR:HB3	41:MF:162:ARG:HG3	1.70	0.73
42:OE:66:VAL:HA	42:OE:91:GLN:HB2	1.68	0.73
41:QF:136:THR:HG22	41:QF:167:PHE:HB2	1.69	0.73
42:SK:3:GLU:HA	42:SK:51:THR:HA	1.70	0.73
42:UK:70:LEU:HD21	42:UK:110:ILE:HG23	1.70	0.73
30:5A:232:ARG:NH1	30:5A:235:GLU:OE1	2.20	0.73
34:6B:364:HIS:HB3	34:6B:455:LEU:HD11	1.70	0.73
41:FH:318:ARG:HG2	41:FH:358:PRO:HD3	1.69	0.73
42:FI:104:ALA:HB2	42:FI:413:MET:HG2	1.70	0.73
42:PA:71:GLU:HG2	42:PA:74:VAL:HG22	1.70	0.73
41:PJ:117:LEU:HD21	41:PJ:155:ILE:HG12	1.70	0.73
42:SC:23:LEU:HD21	42:SC:236:SER:HB3	1.70	0.73
41:DD:334:GLN:HE22	41:DD:348:ASN:H	1.33	0.73
42:FE:3:GLU:HA	42:FE:51:THR:HA	1.70	0.73
41:GJ:330:MET:HB3	41:GJ:349:VAL:HG11	1.69	0.73
42:KI:258:ASN:HB2	41:KJ:179:VAL:HB	1.70	0.73
41:LH:314:ALA:HB3	41:LH:368:ILE:HB	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:QJ:267:MET:HG3	41:QJ:301:ALA:HB3	1.69	0.73
42:RG:399:TYR:HB2	42:RG:402:ARG:HG2	1.69	0.73
41:VH:1:MET:HG2	42:VI:72:PRO:HG3	1.70	0.73
13:2S:193:GLN:NE2	29:4Y:48:THR:OG1	2.22	0.73
27:4T:41:GLY:HA3	41:AL:306:ARG:HD2	1.69	0.73
42:GI:64:ARG:NH1	42:GI:129:CYS:SG	2.62	0.73
42:PA:63:PRO:HG2	42:PA:87:PHE:HA	1.70	0.73
41:QD:390:ARG:HH22	41:QD:391:ARG:HH21	1.33	0.73
41:RJ:242:PHE:HB3	41:RJ:356:ILE:HG13	1.69	0.73
33:5W:40:GLN:HE22	34:6A:130:ASP:CG	1.91	0.73
41:AH:229:VAL:HG12	41:AH:233:MET:HE3	1.69	0.73
42:DG:381:THR:HG22	42:DG:383:ALA:H	1.53	0.73
42:EI:11:GLN:HG3	42:EI:74:VAL:HG21	1.70	0.73
42:EI:100:ALA:H	42:EI:105:ARG:HH12	1.33	0.73
41:MF:132:GLY:HA3	41:MF:163:ILE:HG22	1.69	0.73
31:5G:40:LYS:HD2	42:PI:365:GLY:N	2.00	0.73
33:5X:97:GLU:HA	33:5X:100:GLU:HG3	1.71	0.73
42:HC:273:ALA:HB3	42:HC:274:PRO:HD3	1.71	0.73
42:IK:326:LYS:NZ	41:IL:220:PRO:O	2.21	0.73
42:NG:346:TRP:HB3	41:NH:391:ARG:HD3	1.70	0.73
41:OL:207:LEU:HB3	41:OL:225:LEU:HD12	1.70	0.73
41:PD:1:MET:HA	42:PE:96:LYS:HD2	1.68	0.73
41:SD:25:SER:HG	41:SD:51:TYR:HH	1.35	0.73
34:6A:128:ILE:HD11	34:6B:382:ILE:HD13	1.69	0.73
42:EM:422:ARG:HH11	42:EM:422:ARG:H	1.35	0.73
41:MH:217:LEU:HD23	41:MH:220:PRO:HB3	1.71	0.73
41:PJ:10:GLY:HA2	41:PJ:143:THR:HG23	1.70	0.73
42:RG:104:ALA:HB1	42:RG:411:GLU:HG3	1.71	0.73
42:SC:381:THR:HG22	42:SC:383:ALA:H	1.53	0.73
21:3V:87:ARG:HE	42:LM:264:ARG:HG3	1.51	0.73
37:7C:113:LYS:HZ2	41:SL:129:CYS:HB2	1.54	0.73
41:CD:193:VAL:HB	41:CD:418:LEU:HD21	1.71	0.73
42:EG:217:LEU:HD13	42:EG:367:ASP:HB2	1.71	0.73
41:IH:237:THR:HG22	41:IH:250:LEU:HD11	1.70	0.73
41:IL:101:TRP:HE1	41:IL:184:ASN:HA	1.53	0.73
41:ML:207:LEU:HB3	41:ML:225:LEU:HD22	1.70	0.73
42:NC:217:LEU:HB3	42:NC:219:ILE:HG12	1.71	0.73
42:AK:74:VAL:HG22	42:AK:75:ILE:HG12	1.69	0.73
42:EK:195:LEU:HD11	42:EK:428:LEU:HB2	1.71	0.73
42:OK:286:LEU:O	42:OK:373:ARG:NH2	2.21	0.73
42:PK:276:ILE:HG13	42:PK:280:LYS:HB2	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:PL:13:GLY:HA2	41:PL:136:THR:HB	1.71	0.73
41:QB:9:ALA:HA	41:QB:66:VAL:HB	1.71	0.73
42:SM:274:PRO:HG2	42:SM:374:ALA:HA	1.69	0.73
42:VC:217:LEU:HD21	42:VC:275:VAL:HG22	1.70	0.73
32:5M:244:ARG:HH21	33:5R:241:GLU:HA	1.53	0.72
42:CK:62:VAL:HG11	42:DK:283:HIS:HA	1.71	0.72
41:DJ:7:LEU:HD21	41:DJ:151:LEU:HD13	1.71	0.72
42:EK:248:LEU:HD12	42:EK:248:LEU:H	1.53	0.72
41:PF:324:LYS:HG2	42:PG:222:PRO:HD2	1.71	0.72
41:RF:97:ALA:HB3	41:RF:143:THR:HG22	1.71	0.72
42:RG:326:LYS:HG2	41:RH:220:PRO:HD2	1.70	0.72
42:UE:63:PRO:HB2	42:UE:91:GLN:HE22	1.54	0.72
42:WI:329:ASN:HA	41:WJ:175:VAL:HG11	1.71	0.72
42:EG:184:PRO:HB3	42:EG:394:LYS:HB3	1.71	0.72
41:FD:5:VAL:HG22	41:FD:62:ARG:HD2	1.70	0.72
42:KG:88:HIS:HB3	42:KG:91:GLN:HG2	1.71	0.72
41:ML:173:PRO:HG3	41:ML:380:ARG:HD2	1.72	0.72
42:NG:359:PRO:HB2	42:NG:370:LYS:NZ	2.03	0.72
42:NK:79:ARG:HA	42:NK:84:ARG:CA	2.04	0.72
42:RK:323:VAL:HA	42:RK:373:ARG:HH21	1.53	0.72
34:6E:424:VAL:HG21	34:6F:288:GLU:HB2	1.71	0.72
41:DH:389:PHE:HD1	41:DH:395:LEU:HD21	1.54	0.72
41:ID:248:ALA:HA	41:ID:252:LYS:HD3	1.70	0.72
41:LD:8:GLN:HE21	41:LD:14:ASN:HA	1.53	0.72
41:RF:309:ARG:HG3	41:RF:342:VAL:HG23	1.70	0.72
41:RL:312:THR:H	41:RL:370:ASN:HB2	1.54	0.72
41:CD:165:ASN:HB3	41:CD:198:GLU:HG3	1.71	0.72
42:DC:242:LEU:HD21	42:DC:252:LEU:HD11	1.72	0.72
41:DD:170:VAL:HG11	41:DD:201:CYS:HB3	1.71	0.72
42:EK:171:ILE:HG23	42:EK:205:ASP:HA	1.69	0.72
41:IF:202:ILE:HD11	41:IF:268:PRO:HG2	1.72	0.72
41:JJ:324:LYS:HB2	42:JK:222:PRO:HD2	1.71	0.72
42:JK:439:SER:HB2	41:JL:391:ARG:HD3	1.71	0.72
41:PD:64:VAL:HA	41:PD:89:ASN:HD21	1.54	0.72
42:QE:180:ALA:HB3	42:QE:183:GLU:HG3	1.72	0.72
42:QG:204:VAL:HG23	42:QG:302:MET:HB3	1.70	0.72
41:RJ:49:VAL:HG11	41:RJ:241:ARG:HG2	1.72	0.72
42:RK:7:VAL:HA	42:RK:66:VAL:HB	1.69	0.72
32:5N:116:LEU:HD11	32:5N:136:LEU:HB3	1.70	0.72
41:DL:172:SER:HB2	41:DL:175:VAL:HG13	1.71	0.72
41:EL:54:ALA:HA	41:FL:283:ALA:HB2	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:JM:5:ILE:HG22	42:JM:132:LEU:HD11	1.70	0.72
42:KI:88:HIS:HB3	42:KI:91:GLN:HB2	1.72	0.72
41:MH:49:VAL:HG11	41:MH:241:ARG:HG2	1.72	0.72
42:OG:346:TRP:HE1	41:OH:393:ALA:HA	1.55	0.72
42:SI:140:SER:HA	42:SI:171:ILE:HG13	1.69	0.72
42:TI:323:VAL:HG13	42:TI:355:ILE:HG23	1.71	0.72
42:AG:264:ARG:NH1	42:AG:431:ASP:OD2	2.22	0.72
41:CD:360:GLY:O	41:CD:361:LEU:HB2	1.88	0.72
42:DI:402:ARG:NH1	42:DI:415:GLU:OE1	2.23	0.72
41:DJ:59:TYR:HA	41:EJ:282:ARG:NH2	2.04	0.72
42:DK:71:GLU:HB3	42:DK:98:ASP:HB3	1.70	0.72
42:EK:416:GLY:HA2	42:EK:420:GLU:HB3	1.72	0.72
41:MJ:256:ASN:HD22	41:MJ:350:LYS:HE2	1.55	0.72
41:ND:387:ALA:HA	41:ND:390:ARG:HE	1.53	0.72
41:PB:256:ASN:HD21	42:PC:180:ALA:HB1	1.53	0.72
42:PI:6:SER:HB3	42:PI:138:PHE:HE2	1.55	0.72
41:QJ:136:THR:HG23	41:QJ:167:PHE:HB2	1.71	0.72
41:RL:376:GLU:HA	41:RL:379:LYS:HB3	1.70	0.72
42:SC:91:GLN:HE22	42:SC:125:LEU:HD21	1.53	0.72
41:SH:242:PHE:HB3	41:SH:356:ILE:HD13	1.71	0.72
41:UD:216:LYS:HB3	41:UD:216:LYS:NZ	2.02	0.72
13:2T:401:VAL:HG12	42:GK:369:ALA:HB1	1.70	0.72
42:DC:250:VAL:HG13	42:DC:254:GLU:HB2	1.71	0.72
42:EK:274:PRO:HB2	42:EK:371:VAL:HG11	1.70	0.72
42:FM:16:ILE:HA	42:FM:228:ASN:HB3	1.72	0.72
41:HB:156:ARG:HG3	41:HB:195:ASN:HB2	1.71	0.72
42:HK:203:MET:SD	42:HK:204:VAL:N	2.63	0.72
41:HL:62:ARG:NH2	41:HL:127:CYS:SG	2.62	0.72
41:MN:248:ALA:HB1	41:MN:253:LEU:HD21	1.72	0.72
42:SE:188:ILE:HG13	42:SE:395:PHE:HB2	1.71	0.72
41:SL:132:GLY:HA2	41:SL:162:ARG:HB3	1.72	0.72
41:VF:13:GLY:HA2	41:VF:16:ILE:HG22	1.71	0.72
42:WK:276:ILE:HD11	42:WK:280:LYS:HG2	1.71	0.72
32:5N:317:LEU:HD22	32:5O:205:VAL:HG12	1.71	0.72
42:CI:71:GLU:HB3	42:CI:98:ASP:HB3	1.70	0.72
41:HF:133:PHE:HB2	41:HF:164:MET:HG2	1.72	0.72
42:LM:3:GLU:HA	42:LM:51:THR:HA	1.71	0.72
42:OA:414:GLU:HG2	42:OA:416:GLY:H	1.55	0.72
42:PA:319:TYR:HB3	42:PA:323:VAL:HG11	1.72	0.72
41:SH:256:ASN:HD22	41:SH:350:LYS:HD3	1.52	0.72
42:TK:102:ASN:HB3	42:TK:105:ARG:HG3	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:WF:398:TYR:HB3	41:WF:408:PHE:HZ	1.54	0.72
41:EH:77:ARG:HD3	41:EH:90:PHE:HE2	1.55	0.72
42:GM:227:LEU:HG	45:GM:501:GTP:HN21	1.55	0.72
42:NA:323:VAL:HG23	42:NA:355:ILE:HG23	1.72	0.72
41:NF:73:MET:HG2	41:NF:92:PHE:HB3	1.70	0.72
31:5H:126:LEU:HD22	42:OK:84:ARG:HH21	1.54	0.72
41:BH:170:VAL:HG11	41:BH:377:LEU:HD11	1.72	0.72
41:EL:139:LEU:HD12	41:EL:170:VAL:HG12	1.71	0.72
42:FG:3:GLU:HA	42:FG:51:THR:HA	1.70	0.72
41:HH:275:SER:HB3	41:HH:278:SER:HB3	1.71	0.72
42:IE:64:ARG:HH21	42:IE:128:GLN:HE22	1.38	0.72
19:3J:309:PRO:HB3	41:CD:361:LEU:HD22	1.71	0.71
42:BI:274:PRO:HB2	42:BI:371:VAL:HG11	1.72	0.71
41:ML:372:THR:HG21	41:ML:426:GLN:HB3	1.70	0.71
42:SE:30:ILE:HG23	42:SE:34:GLY:HA2	1.71	0.71
42:UK:123:ARG:HA	42:UK:161:TYR:OH	1.89	0.71
20:3O:344:ASP:HA	20:3O:347:LYS:HG2	1.71	0.71
42:AK:260:VAL:HG12	42:AK:266:HIS:HA	1.71	0.71
42:BI:187:SER:HA	42:BI:190:THR:HG22	1.71	0.71
41:CD:323:MET:HA	41:CD:326:VAL:HG23	1.71	0.71
41:DJ:31:ASP:HB3	41:DJ:35:THR:HB	1.71	0.71
42:EG:3:GLU:HG3	42:EG:129:CYS:HA	1.71	0.71
42:EG:195:LEU:HD21	42:EG:428:LEU:HB2	1.71	0.71
41:GH:178:THR:HG22	41:GH:180:VAL:H	1.53	0.71
41:GJ:346:PRO:CB	42:GK:394:LYS:HD2	2.19	0.71
42:NC:141:PHE:HB3	42:NC:173:PRO:HD3	1.71	0.71
42:PC:6:SER:HA	42:PC:136:LEU:HB2	1.70	0.71
42:TM:119:LEU:HD13	42:TM:122:ILE:HD11	1.72	0.71
33:5V:126:ILE:HG13	33:5W:20:ASN:HD22	1.55	0.71
34:6K:351:ILE:HG12	34:6K:470:GLN:HE21	1.55	0.71
38:7H:49:ARG:HE	42:IK:299:ALA:HB2	1.55	0.71
41:CB:252:LYS:HA	42:CC:100:ALA:HA	1.73	0.71
42:CG:5:ILE:HD11	42:CG:66:VAL:HG12	1.70	0.71
41:DH:229:VAL:HG13	41:DH:233:MET:HB3	1.72	0.71
41:ED:100:ASN:HB3	41:ED:103:LYS:HG2	1.70	0.71
42:FE:274:PRO:HG2	42:FE:374:ALA:HA	1.72	0.71
42:FK:311:LYS:H	42:FK:382:THR:HG22	1.54	0.71
41:PH:313:VAL:HG23	41:PH:349:VAL:HA	1.71	0.71
41:QD:104:GLY:HA2	41:QD:109:GLY:HA3	1.72	0.71
42:SG:64:ARG:HG2	42:SG:125:LEU:HD12	1.72	0.71
42:TI:395:PHE:HZ	42:TI:418:PHE:HB3	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:6K:160:ILE:HG13	34:6K:254:LEU:HD22	1.72	0.71
42:AE:3:GLU:HA	42:AE:51:THR:HA	1.70	0.71
41:AH:229:VAL:HG12	41:AH:233:MET:CE	2.19	0.71
42:CC:254:GLU:HG2	41:CD:98:GLY:HA2	1.72	0.71
41:CL:178:THR:HB	41:CL:181:GLU:HG3	1.73	0.71
41:DD:316:VAL:HA	41:DD:352:ALA:HB3	1.71	0.71
42:DI:346:TRP:CZ2	41:DJ:393:ALA:HA	2.25	0.71
41:EF:331:LEU:HD11	42:EG:176:GLN:HB3	1.72	0.71
42:HE:195:LEU:HD11	42:HE:428:LEU:HD13	1.73	0.71
41:KH:33:THR:O	41:KH:58:LYS:NZ	2.23	0.71
42:MM:139:HIS:HE2	42:MM:170:SER:HG	1.37	0.71
42:NC:406:HIS:CD2	42:NC:407:TRP:CD1	2.78	0.71
42:OK:258:ASN:HB2	41:OL:179:VAL:HB	1.72	0.71
42:OK:316:CYS:HB3	42:OK:378:LEU:HB2	1.73	0.71
42:SI:271:THR:HG23	42:SI:377:MET:HB3	1.72	0.71
41:VF:334:GLN:HE22	41:VF:348:ASN:H	1.36	0.71
11:2L:102:MET:SD	21:3U:250:HIS:NE2	2.59	0.71
34:6G:367:LYS:HB2	34:6H:114:ARG:HH12	1.54	0.71
42:BI:10:GLY:HA2	42:BI:145:THR:HG23	1.72	0.71
41:CF:237:THR:HG22	41:CF:250:LEU:HD21	1.72	0.71
42:GC:203:MET:HB2	42:GC:269:LEU:HA	1.71	0.71
41:GF:331:LEU:HD21	42:GG:176:GLN:HG3	1.72	0.71
42:HC:269:LEU:HD22	42:HC:303:VAL:HG11	1.71	0.71
42:HM:100:ALA:HB3	42:HM:105:ARG:HD3	1.72	0.71
42:JI:142:GLY:HA3	42:JI:183:GLU:HG2	1.72	0.71
42:MM:70:LEU:HD23	42:MM:145:THR:HG23	1.73	0.71
42:PE:248:LEU:HB3	42:PE:354:GLY:HA2	1.71	0.71
41:PF:28:HIS:HA	41:PF:43:GLN:HG2	1.73	0.71
41:RD:68:LEU:HB2	41:RD:143:THR:HB	1.73	0.71
41:VJ:156:ARG:HG3	41:VJ:195:ASN:HB2	1.72	0.71
2:1E:167:ASP:OD1	41:HJ:336:LYS:HA	1.89	0.71
33:5Q:56:ASP:O	33:5Q:60:ASN:ND2	2.23	0.71
34:6C:283:TYR:HE1	34:6D:393:LEU:HD23	1.55	0.71
35:6Q:157:GLN:NE2	35:6Q:158:CYS:SG	2.63	0.71
41:DF:265:PHE:HB3	41:DF:374:ILE:HD13	1.72	0.71
42:IG:132:LEU:HD22	42:IG:164:LYS:HD2	1.71	0.71
41:PB:203:ASP:HB2	41:PB:301:ALA:HA	1.72	0.71
41:UF:347:ASN:HD22	42:UG:178:SER:HB3	1.55	0.71
41:VD:232:THR:HG21	41:VD:268:PRO:HB3	1.72	0.71
9:2D:575:ARG:CZ	41:IN:361:LEU:HB2	2.21	0.71
41:DH:215:LEU:HD11	41:DH:273:LEU:HD22	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:EI:56:THR:HA	42:FI:285:GLN:HB3	1.71	0.71
42:FK:203:MET:HB2	42:FK:267:PHE:CE1	2.25	0.71
41:LJ:217:LEU:HD12	41:LJ:220:PRO:HB3	1.73	0.71
41:QB:388:MET:SD	41:QB:391:ARG:NH2	2.63	0.71
42:QK:64:ARG:HB3	42:QK:125:LEU:HD21	1.71	0.71
41:RB:164:MET:HB3	41:RB:197:ASP:HB2	1.73	0.71
41:RJ:271:ALA:H	41:RJ:272:PRO:HD2	1.55	0.71
41:SH:267:MET:HB3	41:SH:299:MET:HE3	1.71	0.71
41:TH:2:ARG:HB2	41:TH:240:LEU:HD11	1.73	0.71
42:UC:274:PRO:HB2	42:UC:371:VAL:HG11	1.73	0.71
41:WH:374:ILE:HG13	41:WH:377:LEU:HD12	1.72	0.71
13:2S:131:ARG:NH2	24:4G:327:GLU:OE1	2.23	0.71
33:5X:147:THR:HG23	33:5X:250:THR:HB	1.72	0.71
33:5X:360:GLN:NE2	35:6W:239:GLN:OE1	2.24	0.71
41:CD:19:LYS:HA	41:CD:22:GLU:HG3	1.73	0.71
42:HG:15:GLN:HA	42:HG:18:ASN:HD21	1.53	0.71
41:MN:314:ALA:HA	41:MN:350:LYS:H	1.56	0.71
41:NJ:310:TYR:HA	41:NJ:371:SER:HA	1.72	0.71
42:OA:22:GLU:HG2	42:OA:83:TYR:HE1	1.56	0.71
41:OH:271:ALA:HB3	41:OH:272:PRO:HD3	1.72	0.71
42:QG:132:LEU:HD22	42:QG:164:LYS:HD3	1.72	0.71
41:RB:24:ILE:HG12	41:RB:241:ARG:HH12	1.55	0.71
42:EM:105:ARG:HG2	42:EM:411:GLU:HG3	1.73	0.71
42:FE:27:GLU:HB3	42:FE:361:THR:HG21	1.72	0.71
42:GM:40:LYS:HB3	42:GM:42:ILE:HG22	1.73	0.71
42:JK:56:THR:HB	42:MK:282:TYR:O	1.90	0.71
42:JK:262:TYR:HD2	42:JK:265:ILE:HD11	1.54	0.71
41:PJ:7:LEU:HB2	41:PJ:135:LEU:HG	1.71	0.71
41:QH:254:ALA:HA	41:QH:257:MET:HB2	1.71	0.71
42:SM:188:ILE:HG23	42:SM:425:MET:HG3	1.72	0.71
2:1D:222:ARG:HG2	26:4K:276:ARG:HH22	1.56	0.71
19:3J:94:LYS:HE3	42:AC:42:ILE:HD11	1.73	0.71
42:FC:54:SER:HB3	42:FC:62:VAL:HG23	1.71	0.71
41:FH:138:SER:HB3	43:FH:501:GDP:H5'	1.73	0.71
41:FL:319:GLY:HA2	41:FL:357:PRO:HB3	1.73	0.71
41:HH:316:VAL:HA	41:HH:352:ALA:HB3	1.72	0.71
41:HJ:101:TRP:CZ3	41:HJ:183:TYR:HB3	2.25	0.71
42:JM:212:ILE:HG13	42:JM:215:ARG:HH11	1.55	0.71
42:RC:15:GLN:O	42:RC:228:ASN:ND2	2.24	0.71
42:RE:264:ARG:HG2	42:RE:428:LEU:HD11	1.73	0.71
41:RJ:52:ASN:HD21	41:RJ:62:ARG:HD3	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:RK:240:ALA:HA	42:RK:243:ARG:HE	1.56	0.71
41:RL:395:LEU:O	41:RL:399:THR:N	2.23	0.71
42:SK:260:VAL:HG23	41:SL:397:TRP:HZ2	1.55	0.71
42:TM:178:SER:HB3	42:TM:183:GLU:HG3	1.72	0.71
42:UC:323:VAL:HG23	42:UC:355:ILE:HG23	1.73	0.71
41:VJ:24:ILE:HD12	41:VJ:241:ARG:HH12	1.55	0.71
9:2D:567:TYR:CD1	41:IN:276:ARG:CZ	2.74	0.70
22:3Y:238:PRO:HD2	42:DE:89:PRO:HB3	1.73	0.70
37:7E:200:TYR:H	41:NH:125:GLU:HG2	1.56	0.70
41:BF:248:ALA:HA	41:BF:252:LYS:HD3	1.73	0.70
42:BI:5:ILE:HG12	42:BI:135:PHE:HD2	1.56	0.70
41:DJ:67:ASP:HA	41:DJ:143:THR:HG21	1.72	0.70
42:DK:105:ARG:HB3	42:DK:109:THR:HB	1.72	0.70
41:HJ:2:ARG:HB2	41:HJ:131:GLN:HB2	1.72	0.70
42:HM:274:PRO:HG3	42:HM:374:ALA:HA	1.73	0.70
42:IE:182:VAL:HG13	42:IE:186:ASN:HD21	1.54	0.70
41:IJ:232:THR:HG21	41:IJ:268:PRO:HB3	1.72	0.70
42:JG:271:THR:HB	42:JG:377:MET:HB3	1.72	0.70
41:JL:410:GLU:HG2	41:NJ:306:ARG:HH21	1.56	0.70
42:KG:132:LEU:HD22	42:KG:164:LYS:HD3	1.73	0.70
42:ME:11:GLN:HG3	42:ME:74:VAL:HG21	1.71	0.70
42:MM:377:MET:HE2	42:MM:379:SER:HB3	1.70	0.70
41:QJ:313:VAL:HA	41:QJ:369:GLY:CA	2.20	0.70
42:TI:261:PRO:HA	41:TJ:394:PHE:CE1	2.26	0.70
41:VJ:399:THR:HA	41:VJ:403:MET:HB3	1.72	0.70
9:2D:567:TYR:CE1	41:IN:276:ARG:CZ	2.73	0.70
38:7I:223:LYS:O	41:IN:306:ARG:HB2	1.90	0.70
41:CH:319:GLY:HA2	41:CH:357:PRO:HG3	1.73	0.70
42:EC:195:LEU:HD11	42:EC:264:ARG:HG3	1.73	0.70
41:EL:193:VAL:HG11	41:EL:418:LEU:HD21	1.74	0.70
41:GJ:258:VAL:HG12	41:GJ:264:HIS:HA	1.73	0.70
42:ME:292:THR:HG21	42:ME:331:ALA:HB1	1.74	0.70
41:ND:61:PRO:HD3	41:ND:84:ILE:HG12	1.73	0.70
42:OG:260:VAL:HG22	41:OH:397:TRP:HH2	1.56	0.70
41:QL:314:ALA:HB3	41:QL:368:ILE:HG23	1.73	0.70
42:RC:158:SER:OG	42:RC:166:LYS:NZ	2.24	0.70
41:RJ:257:MET:HE1	41:RJ:370:ASN:H	1.56	0.70
41:SD:323:MET:HA	41:SD:326:VAL:HB	1.72	0.70
31:5G:15:LYS:HD3	31:5G:145:ILE:HD11	1.71	0.70
31:5H:128:CYS:HB3	42:PK:279:GLU:HA	1.73	0.70
41:CB:379:LYS:HE3	41:CB:419:VAL:HG21	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DI:240:ALA:HA	42:DI:243:ARG:HE	1.54	0.70
42:DM:313:MET:HB2	42:DM:380:ASN:HB3	1.72	0.70
42:EK:310:GLY:HA3	42:EK:383:ALA:HB2	1.73	0.70
41:MJ:1:MET:N	41:MJ:3:GLU:OE2	2.23	0.70
42:NI:274:PRO:HG3	42:NI:374:ALA:HA	1.74	0.70
41:PD:316:VAL:HG13	41:PD:366:THR:HB	1.71	0.70
41:QJ:253:LEU:HD21	41:QJ:368:ILE:HG13	1.73	0.70
42:TI:261:PRO:HA	41:TJ:394:PHE:HE1	1.56	0.70
33:5Y:13:ARG:HG2	33:5Y:15:PRO:HD2	1.73	0.70
42:AI:344:VAL:HB	42:AI:346:TRP:CE3	2.26	0.70
42:EE:292:THR:HG21	42:EE:331:ALA:HB1	1.72	0.70
42:HM:56:THR:HG23	42:HM:60:LYS:HB3	1.73	0.70
41:JL:385:PHE:HZ	41:JL:408:PHE:HB3	1.56	0.70
42:KG:2:ARG:HB3	42:KG:242:LEU:HB3	1.73	0.70
42:MG:3:GLU:HA	42:MG:51:THR:HA	1.74	0.70
42:SE:99:ALA:HA	42:SE:105:ARG:HG2	1.73	0.70
42:SM:178:SER:HB2	42:SM:183:GLU:HG2	1.74	0.70
42:SM:259:LEU:HA	42:SM:314:ALA:HB1	1.74	0.70
42:TG:326:LYS:HD2	41:TH:220:PRO:HD2	1.73	0.70
42:VG:74:VAL:HG13	42:VG:75:ILE:HG13	1.74	0.70
41:VJ:323:MET:HE1	41:VJ:353:VAL:HG21	1.72	0.70
9:2D:402:PHE:HZ	41:HH:57:GLY:HA2	1.54	0.70
33:5R:7:LYS:HZ2	35:6R:329:ILE:HG21	1.57	0.70
41:DD:270:PHE:O	41:DD:298:ASN:ND2	2.24	0.70
42:KE:3:GLU:HA	42:KE:51:THR:HA	1.73	0.70
42:NC:274:PRO:HB2	42:NC:371:VAL:HG11	1.73	0.70
42:PA:139:HIS:HB2	42:PA:146:GLY:HA2	1.73	0.70
41:QH:7:LEU:HB3	41:QH:135:LEU:HB2	1.73	0.70
42:QI:332:ILE:HA	42:QI:335:ILE:HD12	1.72	0.70
41:SF:132:GLY:HA2	41:SF:162:ARG:HB3	1.72	0.70
42:SI:214:ARG:HH22	42:SI:222:PRO:HD3	1.56	0.70
42:SI:259:LEU:HD21	42:SI:316:CYS:HB2	1.72	0.70
42:SM:310:GLY:HA3	42:SM:381:THR:HB	1.73	0.70
19:3L:474:LYS:HD2	19:3L:476:GLY:H	1.55	0.70
25:4J:246:LYS:HD2	25:4J:248:HIS:HB3	1.74	0.70
29:4Y:26:PRO:O	41:GF:359:ARG:NH2	2.24	0.70
41:DB:260:PHE:HB2	41:DB:263:LEU:HD23	1.73	0.70
42:DK:402:ARG:HG3	42:DK:405:VAL:HG21	1.73	0.70
41:EH:101:TRP:HB2	41:EH:184:ASN:HD22	1.56	0.70
42:FK:292:THR:HG22	42:FK:319:TYR:HE2	1.56	0.70
42:FM:21:TRP:HZ2	42:FM:65:ALA:HB3	1.57	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:HF:28:HIS:ND1	41:HF:43:GLN:O	2.23	0.70
42:JK:188:ILE:HD11	42:JK:391:LEU:HB3	1.71	0.70
42:KM:51:THR:HG21	42:KM:243:ARG:HG2	1.72	0.70
41:ND:104:GLY:HA2	41:ND:109:GLY:HA3	1.73	0.70
41:ND:324:LYS:HD2	42:NE:222:PRO:HD2	1.73	0.70
42:NE:98:ASP:O	42:NE:105:ARG:NH2	2.21	0.70
42:NG:3:GLU:HG3	42:NG:129:CYS:HB2	1.74	0.70
42:PI:108:TYR:CE1	42:PI:413:MET:HG2	2.27	0.70
41:PL:120:VAL:HG21	41:PL:155:ILE:HD11	1.73	0.70
42:QG:68:VAL:HG12	42:QG:93:ILE:HG13	1.72	0.70
42:QK:216:ASN:HB3	42:QK:275:VAL:HB	1.72	0.70
41:TH:152:ILE:HD11	41:TH:166:THR:HG21	1.74	0.70
34:6A:281:VAL:HB	34:6B:394:LYS:HG3	1.73	0.70
41:FL:271:ALA:HB3	41:FL:272:PRO:HD3	1.74	0.70
42:HC:269:LEU:HD21	42:HC:384:ILE:HG12	1.73	0.70
41:PJ:73:MET:O	41:PJ:77:ARG:HB2	1.90	0.70
41:SL:55:THR:H	41:TL:283:ALA:HA	1.55	0.70
42:SM:191:THR:HA	42:SM:194:THR:HG22	1.74	0.70
42:WE:52:PHE:HE2	42:WE:239:THR:HG21	1.57	0.70
41:AD:347:ASN:HD22	42:AE:178:SER:HB3	1.56	0.70
42:MG:212:ILE:HD11	42:MG:300:ASN:HA	1.74	0.70
42:NA:63:PRO:HD3	42:NA:86:LEU:HG	1.71	0.70
41:NF:330:MET:HB3	41:NF:349:VAL:HG11	1.73	0.70
42:NI:104:ALA:HA	42:NI:108:TYR:HD2	1.56	0.70
41:OJ:104:GLY:HA2	41:OJ:109:GLY:CA	2.18	0.70
42:SI:316:CYS:HB3	42:SI:378:LEU:HB2	1.73	0.70
41:TH:259:PRO:HG3	41:TH:311:LEU:HD21	1.72	0.70
41:WD:1:MET:SD	42:WE:72:PRO:HG3	2.31	0.70
15:3A:81:LEU:HB2	41:JJ:361:LEU:HD11	1.73	0.70
20:3P:159:PHE:HB3	42:AI:40:LYS:HE3	1.72	0.70
22:3X:183:GLY:HA2	41:CB:46:ARG:HH12	1.55	0.70
22:3Z:195:SER:O	22:3Z:199:LEU:N	2.22	0.70
41:AH:318:ARG:HB2	41:AH:358:PRO:HD3	1.73	0.70
41:BH:171:PRO:HG2	41:BH:185:ALA:HB2	1.72	0.70
41:HD:309:ARG:HB3	41:HD:342:VAL:HG13	1.74	0.70
41:NB:324:LYS:HZ2	42:NC:221:ARG:HA	1.56	0.70
41:ND:358:PRO:HB2	41:ND:361:LEU:HD12	1.74	0.70
42:OK:120:ASP:OD2	42:OK:124:LYS:NZ	2.24	0.70
42:QE:4:CYS:HB3	42:QE:52:PHE:HE1	1.57	0.70
41:QL:64:VAL:HA	41:QL:89:ASN:HD21	1.57	0.70
42:RC:291:ILE:HG12	42:RC:375:VAL:HG22	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:TD:324:LYS:HG2	42:TE:222:PRO:HD2	1.74	0.70
42:TK:281:ALA:HA	42:TK:284:GLU:HG2	1.74	0.70
42:UG:319:TYR:HB3	42:UG:323:VAL:HG11	1.73	0.70
41:WD:296:ALA:HB2	41:WD:306:ARG:HH12	1.55	0.70
38:7H:197:ARG:HG3	42:HC:127:ASP:HA	1.72	0.70
41:FH:268:PRO:HD2	41:FH:301:ALA:HB2	1.73	0.70
42:GM:241:SER:HB2	42:GM:249:ASN:HB3	1.73	0.70
41:KF:248:ALA:HA	41:KF:252:LYS:HE3	1.74	0.70
41:LF:372:THR:HG21	41:LF:426:GLN:HB2	1.74	0.70
41:NB:132:GLY:HA3	41:NB:163:ILE:HG13	1.74	0.70
42:NI:305:CYS:HB3	42:NI:387:ALA:HB2	1.73	0.70
41:OD:100:ASN:HB3	41:OD:103:LYS:HG2	1.72	0.70
41:QF:312:THR:OG1	41:QF:370:ASN:ND2	2.25	0.70
41:RF:240:LEU:HD11	41:RF:249:ASP:HA	1.73	0.70
41:RH:8:GLN:NE2	41:RH:13:GLY:O	2.24	0.70
42:WI:3:GLU:HA	42:WI:51:THR:HA	1.74	0.70
41:WJ:268:PRO:HG2	41:WJ:300:MET:HB2	1.74	0.70
41:WN:237:THR:HG22	41:WN:250:LEU:HD21	1.72	0.70
19:3J:443:PHE:HB2	19:3J:448:MET:HB3	1.73	0.69
20:3Q:522:ASN:HB3	20:3Q:525:LYS:HB3	1.72	0.69
22:4C:182:THR:CG2	42:CG:76:ASP:HB3	2.22	0.69
30:5A:139:GLN:HE21	41:LJ:279:GLN:HE22	1.39	0.69
35:6W:127:GLU:HB3	35:6W:279:ARG:HH22	1.57	0.69
42:BG:276:ILE:HG13	42:BG:281:ALA:HB2	1.75	0.69
41:DJ:55:THR:CA	41:EJ:284:LEU:HA	2.21	0.69
41:HD:331:LEU:HD13	42:HE:177:VAL:HG22	1.72	0.69
41:IH:3:GLU:HA	41:IH:49:VAL:HA	1.74	0.69
42:MC:326:LYS:HG2	41:MD:220:PRO:HD2	1.72	0.69
42:QI:99:ALA:HA	42:QI:105:ARG:HB2	1.74	0.69
42:UI:53:PHE:HB3	42:UI:61:HIS:HB3	1.74	0.69
9:2D:567:TYR:CE1	41:IN:276:ARG:CD	2.74	0.69
33:5S:17:TRP:CH2	33:5T:126:ILE:HG23	2.27	0.69
34:6E:386:ILE:HA	34:6E:389:LYS:NZ	2.07	0.69
37:7F:68:PRO:HD3	42:OC:338:LYS:NZ	2.07	0.69
41:FD:377:LEU:HD23	41:FD:380:ARG:HH11	1.58	0.69
41:MJ:236:VAL:HG22	41:MJ:368:ILE:HD11	1.73	0.69
42:NC:88:HIS:HB3	42:OC:283:HIS:HB3	1.74	0.69
41:PH:173:PRO:HB2	41:PH:174:LYS:HE3	1.73	0.69
42:QI:114:LEU:HB3	42:QI:149:PHE:HE1	1.57	0.69
42:QI:320:ARG:HA	42:QI:356:ASN:HB3	1.73	0.69
42:SI:318:LEU:HB2	42:SI:376:CYS:HB3	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:UK:105:ARG:HG2	42:UK:110:ILE:HG22	1.74	0.69
41:UL:313:VAL:HB	41:UL:349:VAL:HG22	1.73	0.69
41:WN:285:THR:HG22	41:WN:287:PRO:HD2	1.74	0.69
9:2D:575:ARG:HH21	41:IN:360:GLY:N	1.86	0.69
20:3O:277:GLY:HA3	41:CF:359:ARG:HH22	1.56	0.69
42:BE:5:ILE:HA	42:BE:64:ARG:HG3	1.74	0.69
42:BE:200:CYS:HA	42:BE:266:HIS:HB2	1.74	0.69
42:EC:274:PRO:HG2	42:EC:374:ALA:HA	1.74	0.69
41:ED:103:LYS:HA	41:ED:107:THR:HG1	1.55	0.69
41:EH:226:ASN:HA	41:EH:229:VAL:HB	1.72	0.69
42:EK:273:ALA:H	42:EK:274:PRO:HD2	1.57	0.69
41:FD:62:ARG:HG2	41:FD:123:GLU:HG3	1.73	0.69
42:OE:80:THR:HA	42:OE:84:ARG:HD2	1.73	0.69
42:OK:259:LEU:O	42:OK:380:ASN:ND2	2.25	0.69
41:QH:102:ALA:HA	41:QH:105:HIS:HB3	1.74	0.69
20:3P:541:GLU:HG2	20:3P:575:LEU:HD21	1.73	0.69
33:5S:7:LYS:HA	35:6S:326:LEU:HD12	1.73	0.69
34:6D:406:ARG:HB3	34:6D:410:GLU:HB3	1.73	0.69
41:AB:196:THR:HG22	41:AB:198:GLU:H	1.56	0.69
42:CG:136:LEU:HD23	42:CG:169:PHE:HE2	1.57	0.69
41:CJ:182:PRO:HB2	41:CJ:388:MET:HE1	1.74	0.69
41:CL:49:VAL:HG11	41:CL:241:ARG:HG2	1.73	0.69
42:DE:87:PHE:HB3	42:DE:92:LEU:HD11	1.73	0.69
42:EE:183:GLU:HB3	42:EE:184:PRO:HD3	1.74	0.69
42:HC:253:THR:HG22	41:HD:98:GLY:HA3	1.72	0.69
41:HH:312:THR:HA	41:HH:348:ASN:HB2	1.73	0.69
42:IE:11:GLN:HA	42:IE:74:VAL:HG11	1.74	0.69
42:IE:258:ASN:HB3	41:IF:179:VAL:HG12	1.75	0.69
42:IE:346:TRP:HZ2	42:IE:435:VAL:HG13	1.56	0.69
42:MM:338:LYS:HE3	42:MM:341:ILE:HD13	1.75	0.69
41:OB:271:ALA:HB2	41:OB:365:ALA:HB3	1.74	0.69
42:OG:88:HIS:HB3	42:OG:91:GLN:HB3	1.74	0.69
42:OG:147:SER:HB2	42:OG:190:THR:HB	1.74	0.69
42:PC:275:VAL:HA	42:PC:368:LEU:HD11	1.73	0.69
41:QL:395:LEU:HA	41:QL:398:TYR:HB2	1.74	0.69
42:TE:310:GLY:HA3	42:TE:383:ALA:HB2	1.72	0.69
33:5R:201:LEU:HD22	35:6Q:219:VAL:HG21	1.73	0.69
33:5T:123:ARG:HB3	33:5T:127:ASP:O	1.92	0.69
42:AC:102:ASN:HD22	42:AC:105:ARG:HG3	1.58	0.69
41:CF:271:ALA:HB3	41:CF:272:PRO:HD3	1.74	0.69
42:HC:75:ILE:HA	42:HC:78:VAL:HB	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:ID:86:ARG:NH1	42:JC:283:HIS:O	2.24	0.69
42:LE:292:THR:HG21	42:LE:331:ALA:HB1	1.75	0.69
42:NC:52:PHE:HZ	42:NC:136:LEU:HD22	1.58	0.69
41:OD:355:ASP:HB3	41:OD:356:ILE:HD12	1.74	0.69
41:OL:272:PRO:HG2	41:OL:361:LEU:HD13	1.73	0.69
42:RK:398:MET:HG2	42:RK:403:ALA:HB3	1.74	0.69
42:SE:317:LEU:HB3	42:SE:319:TYR:HE2	1.55	0.69
42:TI:3:GLU:HG3	42:TI:129:CYS:HB2	1.74	0.69
41:TJ:171:PRO:HG2	41:TJ:185:ALA:HB2	1.75	0.69
41:WH:390:ARG:HG3	41:WH:391:ARG:HG3	1.73	0.69
41:WL:375:GLN:HB2	41:WL:419:VAL:HG13	1.73	0.69
34:6E:389:LYS:HZ1	34:6E:434:LEU:HD11	1.56	0.69
34:6H:291:ASP:HB3	34:6L:67:PRO:HB3	1.74	0.69
34:6J:121:ARG:NH2	34:6K:371:GLU:OE1	2.25	0.69
41:BJ:251:ARG:HH21	42:BK:98:ASP:H	1.40	0.69
42:CC:183:GLU:HG3	42:CC:184:PRO:HD3	1.74	0.69
41:DD:247:ASN:ND2	42:DE:73:THR:OG1	2.24	0.69
41:DH:324:LYS:HD3	42:DI:214:ARG:HD3	1.74	0.69
41:JD:7:LEU:HD23	41:JD:64:VAL:HB	1.74	0.69
42:KM:244:PHE:HB2	42:KM:356:ASN:HD21	1.58	0.69
41:QB:109:GLY:HA2	41:QB:112:LEU:HB3	1.74	0.69
42:RC:298:PRO:CG	42:RC:298:PRO:CA	2.69	0.69
41:TL:163:ILE:HD12	41:TL:250:LEU:HD22	1.75	0.69
42:UC:137:ILE:HB	42:UC:168:GLU:HG2	1.72	0.69
42:UC:175:PRO:HA	42:UC:390:ARG:HD3	1.73	0.69
41:UD:221:THR:HG23	41:UD:223:GLY:H	1.57	0.69
42:VK:63:PRO:HD3	42:VK:86:LEU:HG	1.74	0.69
34:6K:471:ASP:HA	35:6T:164:HIS:CE1	2.26	0.69
41:BB:139:LEU:HB2	41:BB:171:PRO:HD3	1.75	0.69
41:DF:153:SER:OG	41:DF:191:GLN:NE2	2.26	0.69
41:DJ:53:GLU:HA	41:EJ:282:ARG:NH1	2.07	0.69
42:EG:217:LEU:HG	42:EG:275:VAL:HG22	1.74	0.69
41:EL:324:LYS:HE3	42:EM:222:PRO:CD	2.21	0.69
41:HD:311:LEU:HD22	41:HD:344:TRP:HZ2	1.57	0.69
42:MM:168:GLU:HB3	42:MM:201:ALA:HA	1.74	0.69
41:NL:211:CYS:HA	41:NL:215:LEU:HB2	1.75	0.69
41:SF:392:LYS:HG3	41:SF:395:LEU:HD23	1.75	0.69
41:WH:260:PHE:HB2	41:WH:263:LEU:HD12	1.74	0.69
42:WK:259:LEU:O	42:WK:380:ASN:ND2	2.25	0.69
14:2X:220:ARG:H	41:MJ:194:GLU:HB2	1.56	0.69
34:6F:234:LYS:HA	34:6F:237:LEU:HD23	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:6G:203:GLU:OE1	34:6L:252:HIS:NE2	2.24	0.69
35:6U:175:GLU:OE1	35:6U:296:GLN:NE2	2.23	0.69
41:BD:7:LEU:HG	41:BD:64:VAL:HG13	1.74	0.69
41:BD:330:MET:HB3	41:BD:349:VAL:HG11	1.73	0.69
41:CF:256:ASN:HD21	42:CG:181:VAL:H	1.40	0.69
42:CG:360:PRO:HG3	42:CG:374:ALA:HB2	1.74	0.69
41:CJ:328:GLU:HA	41:CJ:331:LEU:HD23	1.73	0.69
41:DF:28:HIS:O	41:DF:43:GLN:NE2	2.26	0.69
42:EC:50:ASN:O	42:EC:64:ARG:NH1	2.26	0.69
41:ED:43:GLN:HA	41:ED:242:PHE:HE2	1.58	0.69
41:FH:239:CYS:HB3	41:FH:248:ALA:H	1.58	0.69
42:HC:262:TYR:HA	41:HD:396:HIS:CE1	2.27	0.69
42:HE:53:PHE:HB3	42:HE:61:HIS:HB3	1.75	0.69
41:HL:159:TYR:HB3	41:HL:162:ARG:HG3	1.74	0.69
42:IG:258:ASN:HD22	42:IG:352:LYS:HE3	1.56	0.69
41:IJ:325:GLU:OE2	42:IK:221:ARG:HG2	1.92	0.69
42:IK:50:ASN:O	42:IK:64:ARG:NH1	2.26	0.69
41:JD:11:GLN:HA	41:JD:72:THR:HG21	1.74	0.69
42:MM:172:TYR:N	42:MM:204:VAL:O	2.26	0.69
42:OE:431:ASP:HA	42:OE:434:GLU:HG2	1.73	0.69
41:OF:293:MET:HG2	41:OF:367:PHE:HB2	1.73	0.69
42:PC:5:ILE:HG12	42:PC:132:LEU:HD11	1.72	0.69
42:QK:5:ILE:HB	42:QK:125:LEU:HD22	1.74	0.69
42:QK:30:ILE:HD13	42:QK:61:HIS:HB2	1.73	0.69
42:RI:211:ASP:HA	42:RI:214:ARG:HH12	1.58	0.69
41:SH:303:CYS:SG	41:SH:304:ASP:N	2.63	0.69
41:TH:292:GLN:HB3	41:TH:298:ASN:HD22	1.57	0.69
41:TJ:61:PRO:HD3	41:TJ:84:ILE:HG22	1.74	0.69
42:UE:64:ARG:NH1	42:UE:129:CYS:SG	2.66	0.69
42:UK:240:ALA:HB1	42:UK:356:ASN:HD22	1.57	0.69
29:4Y:60:THR:HG22	29:4Y:62:SER:H	1.57	0.69
33:5V:245:LEU:CD2	34:6A:327:ASN:HD22	2.05	0.69
35:6T:168:VAL:HG21	35:6U:56:TRP:HD1	1.58	0.69
41:AB:30:ILE:HD11	41:AB:47:ILE:HD11	1.75	0.69
42:AG:271:THR:HB	42:AG:377:MET:HB3	1.75	0.69
41:DL:46:ARG:HH22	42:DM:73:THR:HA	1.57	0.69
41:EH:49:VAL:HG21	41:EH:241:ARG:HG2	1.74	0.69
42:FC:209:ILE:HA	42:FC:212:ILE:HG12	1.74	0.69
41:FJ:344:TRP:CZ2	42:FK:400:ALA:HB3	2.27	0.69
41:HB:68:LEU:H	41:HB:143:THR:HG21	1.58	0.69
41:IL:282:ARG:NH2	41:IL:292:GLN:OE1	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:OA:247:ALA:O	42:OA:249:ASN:ND2	2.25	0.69
42:OE:258:ASN:HD22	42:OE:352:LYS:HD3	1.56	0.69
42:QG:30:ILE:HG21	42:QG:53:PHE:CE2	2.28	0.69
41:RH:324:LYS:HB2	42:RI:222:PRO:HD2	1.75	0.69
42:SE:167:LEU:HB3	42:SE:202:PHE:HE2	1.58	0.69
41:SF:238:THR:HG21	41:SF:318:ARG:HD3	1.73	0.69
41:UJ:327:ASP:HA	41:UJ:330:MET:HG2	1.75	0.69
42:VI:207:GLU:OE2	42:VI:304:LYS:NZ	2.26	0.69
20:3Q:491:GLU:OE1	20:3Q:525:LYS:NZ	2.25	0.69
22:3Y:31:MET:HB3	42:CE:221:ARG:HG2	1.75	0.69
33:5T:131:ASP:HB2	33:5T:268:ARG:HD3	1.75	0.69
42:AE:88:HIS:HB2	42:AE:91:GLN:HG2	1.74	0.69
41:BD:207:LEU:HB3	41:BD:225:LEU:HG	1.75	0.69
42:EK:288:VAL:HG23	42:EK:290:GLU:HB3	1.75	0.69
42:FK:195:LEU:HD11	42:FK:428:LEU:HD21	1.74	0.69
41:HF:1:MET:HE1	42:HG:96:LYS:HA	1.74	0.69
42:HG:206:ASN:HB3	45:HG:501:GTP:N2	2.08	0.69
41:OJ:159:TYR:HB3	41:OJ:162:ARG:HG3	1.73	0.69
41:PJ:13:GLY:HA2	41:PJ:136:THR:HG22	1.73	0.69
42:QC:184:PRO:HG3	42:QC:394:LYS:HE2	1.73	0.69
41:DB:305:PRO:HB2	41:DB:310:TYR:HE1	1.57	0.68
42:DE:213:CYS:HB3	42:DE:219:ILE:HG23	1.75	0.68
42:DK:206:ASN:HA	42:DK:209:ILE:HD12	1.75	0.68
42:DK:269:LEU:HD12	42:DK:303:VAL:HG11	1.75	0.68
41:DL:175:VAL:HG12	41:DL:205:GLU:HB2	1.73	0.68
42:EE:137:ILE:HB	42:EE:168:GLU:HG2	1.75	0.68
41:EF:2:ARG:HB3	41:EF:131:GLN:HB2	1.74	0.68
42:FK:108:TYR:HE2	42:FK:411:GLU:HB2	1.57	0.68
41:HF:256:ASN:HD21	42:HG:180:ALA:HB1	1.59	0.68
42:ME:168:GLU:HB2	42:ME:201:ALA:HA	1.73	0.68
41:ND:54:ALA:HB3	41:ND:58:LYS:HB3	1.74	0.68
42:OA:217:LEU:HA	42:OA:277:SER:HB3	1.76	0.68
42:OC:437:MET:SD	41:OD:391:ARG:NH2	2.66	0.68
42:PE:336:LYS:HD2	42:PE:351:PHE:HE2	1.51	0.68
42:PG:31:GLN:O	42:PG:33:ASP:N	2.24	0.68
41:PH:354:CYS:SG	41:PH:355:ASP:N	2.65	0.68
41:PJ:393:ALA:O	41:PJ:395:LEU:N	2.25	0.68
42:QE:151:SER:HB3	42:QE:190:THR:HG23	1.75	0.68
41:RJ:286:VAL:HA	41:RJ:289:LEU:HD12	1.75	0.68
42:TM:291:ILE:HD13	42:TM:373:ARG:HB3	1.74	0.68
42:UC:147:SER:HA	42:UC:190:THR:HG22	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:5A:203:THR:OG1	30:5A:207:LYS:NZ	2.26	0.68
42:CC:250:VAL:HG22	42:CC:352:LYS:HE3	1.74	0.68
41:CJ:318:ARG:HH21	41:CJ:357:PRO:N	1.90	0.68
42:IG:71:GLU:HG2	42:IG:98:ASP:HB3	1.75	0.68
42:II:271:THR:HB	42:II:377:MET:HB3	1.75	0.68
42:JC:320:ARG:HD3	42:JC:360:PRO:HG3	1.74	0.68
42:MM:326:LYS:HE3	41:MN:208:TYR:CD1	2.29	0.68
42:PC:5:ILE:HG22	42:PC:6:SER:H	1.58	0.68
42:PE:60:LYS:HE3	42:PE:86:LEU:HA	1.75	0.68
41:QJ:3:GLU:HG3	41:QJ:127:CYS:HB2	1.75	0.68
42:RC:298:PRO:CG	42:RC:298:PRO:CD	0.68	0.68
41:RF:8:GLN:HE22	41:RF:14:ASN:HA	1.58	0.68
42:SE:191:THR:HA	42:SE:194:THR:HG22	1.76	0.68
41:SL:319:GLY:HA3	41:SL:363:MET:HA	1.74	0.68
42:SM:93:ILE:HD11	42:SM:121:ARG:HD3	1.75	0.68
42:TC:291:ILE:HG22	42:TC:375:VAL:HG22	1.76	0.68
42:TI:132:LEU:H	42:TI:132:LEU:HD23	1.58	0.68
42:TK:274:PRO:HB3	42:TK:286:LEU:HD21	1.75	0.68
42:TM:219:ILE:HG22	42:TM:221:ARG:H	1.58	0.68
8:2B:116:PRO:HG3	42:AK:263:PRO:HD2	1.76	0.68
33:5W:43:ARG:HH22	34:6A:126:ARG:HB2	1.59	0.68
41:AB:46:ARG:NH2	42:AC:76:ASP:OD2	2.24	0.68
42:AK:79:ARG:HH22	42:AK:94:THR:HB	1.58	0.68
41:BB:324:LYS:HE3	42:BC:222:PRO:HD2	1.75	0.68
41:DL:16:ILE:HD11	41:DL:229:VAL:HG11	1.75	0.68
42:DM:204:VAL:HG21	42:DM:231:ILE:HD11	1.75	0.68
41:EH:17:GLY:HA2	41:EH:20:PHE:HB3	1.75	0.68
41:EH:64:VAL:HG11	41:EH:120:VAL:HG12	1.75	0.68
42:FI:139:HIS:ND1	42:FI:146:GLY:O	2.26	0.68
41:GH:178:THR:HB	41:GH:181:GLU:HG3	1.73	0.68
41:IF:34:GLY:HA3	41:IF:58:LYS:HG3	1.75	0.68
42:IG:381:THR:HG22	42:IG:383:ALA:H	1.58	0.68
41:IN:16:ILE:HA	41:IN:226:ASN:OD1	1.92	0.68
41:JJ:170:VAL:HG21	41:JJ:377:LEU:HD11	1.76	0.68
41:LD:358:PRO:HB2	41:LD:361:LEU:HD12	1.75	0.68
42:MG:211:ASP:HA	42:MG:214:ARG:HE	1.58	0.68
42:PE:336:LYS:CG	42:PE:351:PHE:HZ	2.05	0.68
42:PG:269:LEU:HD13	42:PG:301:GLN:HE22	1.57	0.68
42:PK:167:LEU:HD12	42:PK:200:CYS:HB2	1.75	0.68
41:RD:256:ASN:HD21	42:RE:181:VAL:H	1.40	0.68
42:SI:217:LEU:HD21	42:SI:275:VAL:HG12	1.73	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:VG:180:ALA:HB3	42:VG:183:GLU:HB2	1.76	0.68
41:WD:282:ARG:NH2	41:WD:288:GLU:OE1	2.26	0.68
32:5L:299:LEU:HD11	32:5M:41:SER:HB2	1.74	0.68
37:7C:107:PHE:HD2	37:7C:110:LYS:HZ1	1.41	0.68
42:DI:103:TYR:O	42:DI:107:HIS:ND1	2.25	0.68
42:EE:326:LYS:HA	41:EF:208:TYR:CE2	2.28	0.68
41:FH:187:LEU:HD21	41:FH:408:PHE:HB3	1.75	0.68
41:HD:61:PRO:HD3	41:HD:84:ILE:HG22	1.76	0.68
41:OD:354:CYS:SG	41:OD:355:ASP:N	2.66	0.68
42:PC:171:ILE:HD11	42:PC:206:ASN:CB	2.21	0.68
41:PJ:116:VAL:HG21	41:PJ:151:LEU:HD11	1.75	0.68
41:PL:110:ALA:HA	41:PL:113:VAL:HG22	1.74	0.68
42:VE:71:GLU:HB2	42:VE:98:ASP:HB3	1.74	0.68
20:3O:397:PRO:HG2	41:EF:216:LYS:HB3	1.74	0.68
28:4V:132:PRO:HD3	42:HC:338:LYS:HZ2	1.58	0.68
33:5V:313:LEU:HA	33:5W:199:ILE:HD11	1.76	0.68
34:6C:382:ILE:HG21	34:6C:438:LEU:HB2	1.76	0.68
41:FD:357:PRO:HB2	41:FD:358:PRO:HD2	1.76	0.68
42:HI:262:TYR:HB2	42:HI:265:ILE:HD11	1.74	0.68
41:KN:3:GLU:HA	41:KN:49:VAL:HG23	1.75	0.68
42:MK:324:VAL:HG11	41:ML:219:THR:HB	1.73	0.68
41:OL:270:PHE:O	41:OL:298:ASN:ND2	2.26	0.68
41:PF:45:GLU:HB2	41:PF:46:ARG:HD2	1.76	0.68
42:UM:292:THR:HG21	42:UM:331:ALA:HB1	1.74	0.68
42:VK:292:THR:HG21	42:VK:331:ALA:HB1	1.73	0.68
41:WF:226:ASN:HA	41:WF:229:VAL:HG12	1.75	0.68
30:5A:313:ARG:HG2	41:LD:276:ARG:HG3	1.73	0.68
33:5Q:23:LEU:O	33:5Q:27:ASN:ND2	2.26	0.68
33:5S:78:LEU:HD13	33:5S:175:ASP:HB3	1.76	0.68
34:6H:116:ASN:OD1	34:6H:119:ARG:NH2	2.27	0.68
42:BC:274:PRO:HG2	42:BC:374:ALA:HA	1.76	0.68
42:DI:220:GLU:OE1	42:DI:221:ARG:NH1	2.27	0.68
41:FD:271:ALA:HB2	41:FD:367:PHE:CZ	2.28	0.68
41:FD:344:TRP:HB3	42:FE:401:LYS:NZ	2.08	0.68
41:FF:322:SER:HB3	41:FF:325:GLU:HB2	1.74	0.68
41:HD:31:ASP:O	41:HD:33:THR:N	2.27	0.68
42:MC:217:LEU:HD11	42:MC:275:VAL:HG22	1.76	0.68
41:NB:113:VAL:HG21	41:NB:150:LEU:HD13	1.75	0.68
41:PB:31:ASP:H	41:PB:36:TYR:HA	1.58	0.68
41:WF:11:GLN:N	43:WF:501:GDP:O3B	2.26	0.68
13:2T:429:LEU:HB3	41:GJ:276:ARG:HD2	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:4L:271:GLU:O	26:4L:275:ALA:N	2.25	0.68
28:4W:44:PHE:CE1	42:GM:37:PRO:HG3	2.28	0.68
41:CF:135:LEU:HD23	41:CF:137:HIS:HB3	1.74	0.68
42:DK:195:LEU:HD21	42:DK:428:LEU:HD13	1.74	0.68
42:DM:64:ARG:NH1	42:DM:129:CYS:SG	2.66	0.68
41:KF:256:ASN:HD21	42:KG:101:ASN:HD22	1.41	0.68
42:NK:195:LEU:HG	42:NK:428:LEU:HD21	1.75	0.68
42:OA:209:ILE:HG22	42:OA:227:LEU:HD22	1.75	0.68
41:PF:347:ASN:HB3	42:PG:181:VAL:HA	1.75	0.68
41:PH:155:ILE:HA	41:PH:158:GLU:HG3	1.74	0.68
41:QL:7:LEU:HB3	41:QL:135:LEU:HB2	1.75	0.68
41:RD:262:ARG:HH21	41:RD:418:LEU:HB2	1.59	0.68
42:SG:316:CYS:HB3	42:SG:378:LEU:HB2	1.75	0.68
41:SL:171:PRO:HG2	41:SL:185:ALA:HB2	1.75	0.68
41:TD:178:THR:HB	41:TD:181:GLU:HB2	1.74	0.68
41:TD:392:LYS:HE2	41:TD:395:LEU:HD23	1.76	0.68
41:WJ:30:ILE:HD11	41:WJ:47:ILE:HD11	1.76	0.68
41:BH:178:THR:HB	41:BH:181:GLU:HG3	1.76	0.68
41:CL:19:LYS:HD3	41:CL:227:HIS:HB2	1.75	0.68
41:DH:163:ILE:HD12	41:DH:250:LEU:HB3	1.75	0.68
41:FJ:235:GLY:HA3	41:FJ:366:THR:HG21	1.75	0.68
42:FM:200:CYS:SG	42:FM:256:GLN:NE2	2.66	0.68
42:GK:258:ASN:HD21	42:GK:352:LYS:HD2	1.59	0.68
42:HI:184:PRO:HB3	42:HI:394:LYS:HG3	1.76	0.68
41:JH:77:ARG:HH12	41:JH:83:GLN:HA	1.59	0.68
42:OI:439:SER:H	41:OJ:391:ARG:HH21	1.42	0.68
41:RF:242:PHE:HB3	41:RF:356:ILE:HG13	1.75	0.68
41:TF:252:LYS:NZ	45:TG:501:GTP:O2B	2.27	0.68
42:UC:101:ASN:HA	42:UC:144:GLY:H	1.58	0.68
42:VG:105:ARG:HA	42:VG:109:THR:HB	1.75	0.68
27:4Q:44:VAL:HG21	41:KH:122:LYS:HA	1.76	0.68
28:4V:128:ARG:NH2	42:GC:120:ASP:OD1	2.27	0.68
34:6H:87:ARG:NH2	34:6H:89:THR:O	2.27	0.68
34:6M:202:ARG:HH12	34:6M:215:VAL:HG11	1.58	0.68
41:CJ:245:GLN:HG2	42:CK:15:GLN:HE22	1.58	0.68
42:CK:97:GLU:OE1	42:CK:105:ARG:NH2	2.27	0.68
42:DI:310:GLY:HA3	42:DI:383:ALA:HB2	1.75	0.68
41:ED:31:ASP:HB2	41:ED:32:PRO:HD2	1.74	0.68
42:EI:231:ILE:HA	42:EI:234:ILE:HD12	1.76	0.68
42:FC:67:PHE:HB3	42:FC:75:ILE:HD11	1.75	0.68
41:IL:193:VAL:HG21	41:IL:418:LEU:HD11	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:JF:3:GLU:HA	41:JF:49:VAL:HA	1.76	0.68
41:JL:214:THR:HG22	41:JL:297:LYS:HD3	1.75	0.68
41:LD:248:ALA:HA	41:LD:252:LYS:HD3	1.75	0.68
42:MG:68:VAL:HG12	42:MG:93:ILE:HB	1.76	0.68
41:OB:165:ASN:HD22	41:OB:198:GLU:HG3	1.59	0.68
42:PA:147:SER:HB3	42:PA:190:THR:HG22	1.73	0.68
41:QJ:5:VAL:HG23	41:QJ:130:LEU:HD11	1.75	0.68
41:RB:323:MET:SD	41:RB:323:MET:N	2.66	0.68
42:TK:273:ALA:HB3	42:TK:274:PRO:HD3	1.74	0.68
20:3N:11:HIS:H	41:KD:73:MET:H	1.42	0.68
33:5S:325:PRO:HD2	33:5S:328:GLU:HB3	1.75	0.68
34:6N:406:ARG:HH21	34:6N:412:CYS:H	1.38	0.68
35:6R:238:VAL:HG11	35:6S:352:VAL:HG22	1.76	0.68
41:FF:312:THR:OG1	41:FF:370:ASN:ND2	2.27	0.68
41:IN:282:ARG:HD3	41:IN:283:ALA:H	1.57	0.68
41:MN:46:ARG:HH21	41:MN:48:ASN:HD21	1.42	0.68
41:OJ:272:PRO:HB2	41:OJ:361:LEU:HD22	1.76	0.68
41:PJ:20:PHE:HA	41:PJ:230:SER:HB3	1.76	0.68
42:QC:202:PHE:HB3	42:QC:268:PRO:HB2	1.76	0.68
41:VJ:12:CYS:HG	41:VJ:138:SER:HG	1.35	0.68
2:1F:80:GLN:NE2	42:HM:342:GLN:HA	2.08	0.67
21:3T:78:LYS:NZ	42:LE:399:TYR:OH	2.24	0.67
41:AD:314:ALA:HB3	41:AD:368:ILE:HB	1.75	0.67
41:BB:237:THR:HG22	41:BB:250:LEU:HD11	1.76	0.67
42:CC:323:VAL:HB	42:CC:355:ILE:HG22	1.76	0.67
41:EL:248:ALA:HA	41:EL:252:LYS:HG2	1.74	0.67
41:FJ:193:VAL:HA	41:FJ:264:HIS:HE2	1.58	0.67
42:GM:343:PHE:HE2	42:GM:350:GLY:HA3	1.59	0.67
42:HK:88:HIS:CD2	42:IK:283:HIS:HB3	2.29	0.67
42:JM:88:HIS:HB2	42:MM:283:HIS:CD2	2.29	0.67
42:OG:63:PRO:HD3	42:OG:86:LEU:HG	1.74	0.67
41:PL:178:THR:HB	41:PL:181:GLU:HG3	1.76	0.67
42:QE:254:GLU:OE2	42:QE:258:ASN:ND2	2.26	0.67
41:QJ:313:VAL:HA	41:QJ:369:GLY:HA2	1.74	0.67
41:RJ:54:ALA:HB3	41:RJ:58:LYS:HB3	1.74	0.67
41:UL:215:LEU:HB3	41:UL:217:LEU:HD23	1.76	0.67
42:WG:3:GLU:HA	42:WG:51:THR:HA	1.76	0.67
41:EJ:8:GLN:HG3	41:EJ:14:ASN:HA	1.77	0.67
42:FC:195:LEU:HD21	42:FC:428:LEU:HB2	1.76	0.67
41:FF:51:TYR:HB3	41:FF:59:TYR:HB3	1.75	0.67
41:FH:61:PRO:HD3	41:FH:84:ILE:HG22	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:FH:368:ILE:HG22	41:FH:370:ASN:HB2	1.76	0.67
42:FM:198:SER:OG	42:FM:266:HIS:NE2	2.24	0.67
42:NG:63:PRO:HG3	42:NG:87:PHE:HD1	1.58	0.67
42:NI:102:ASN:HB3	42:NI:105:ARG:HB2	1.75	0.67
41:PH:221:THR:HG22	41:PH:223:GLY:H	1.57	0.67
41:QB:245:GLN:O	41:QB:247:ASN:ND2	2.27	0.67
42:QK:265:ILE:HD13	42:QK:435:VAL:HG21	1.76	0.67
41:WL:173:PRO:HB3	41:WL:380:ARG:HD2	1.76	0.67
20:3N:84:ARG:HH21	20:3N:86:ARG:HD3	1.59	0.67
20:3Q:431:CYS:SG	20:3Q:432:ALA:N	2.64	0.67
35:6Q:51:TYR:O	35:6R:169:ARG:N	2.26	0.67
42:BC:258:ASN:HD21	42:BC:352:LYS:HD2	1.59	0.67
41:CB:309:ARG:NH2	41:CB:426:GLN:O	2.28	0.67
42:CE:324:VAL:HG12	42:CE:326:LYS:H	1.56	0.67
42:CI:256:GLN:HE22	41:CJ:397:TRP:HE1	1.40	0.67
41:DD:4:ILE:HB	41:DD:50:TYR:HE1	1.59	0.67
41:DL:149:THR:HB	41:DL:191:GLN:HG2	1.74	0.67
41:EF:375:GLN:HG2	41:EF:379:LYS:HE2	1.76	0.67
42:EM:182:VAL:HG13	42:EM:186:ASN:HD21	1.58	0.67
41:FJ:61:PRO:HD3	41:FJ:84:ILE:HG12	1.76	0.67
42:GM:84:ARG:HG3	42:GM:85:GLN:HG3	1.76	0.67
42:HK:248:LEU:H	42:HK:355:ILE:HB	1.59	0.67
42:IE:206:ASN:HD21	45:IE:501:GTP:HN22	1.42	0.67
41:KH:17:GLY:HA2	41:KH:20:PHE:HB3	1.74	0.67
42:LM:91:GLN:HE22	42:LM:125:LEU:HD11	1.57	0.67
42:MK:279:GLU:O	42:MK:283:HIS:ND1	2.26	0.67
41:MN:244:GLY:HA3	41:MN:355:ASP:HB3	1.75	0.67
41:NB:324:LYS:CD	42:NC:222:PRO:HD2	2.24	0.67
41:NH:172:SER:HB2	41:NH:205:GLU:HG2	1.76	0.67
42:OE:180:ALA:HB3	42:OE:183:GLU:HG2	1.77	0.67
41:QJ:138:SER:HA	41:QJ:169:VAL:HB	1.75	0.67
41:RH:127:CYS:SG	41:RH:128:ASP:N	2.66	0.67
41:SD:221:THR:HG23	41:SD:223:GLY:H	1.59	0.67
42:SK:56:THR:CG2	42:TK:285:GLN:HA	2.24	0.67
41:WD:312:THR:HG21	42:WE:404:PHE:HZ	1.58	0.67
25:4J:27:LEU:HB2	25:4J:36:GLU:HB2	1.76	0.67
32:5M:316:ARG:HH21	32:5N:63:LEU:HD12	1.60	0.67
37:7E:240:ILE:HA	41:OF:296:ALA:HB3	1.77	0.67
42:AK:273:ALA:HB3	42:AK:274:PRO:HD3	1.77	0.67
42:CI:128:GLN:HE22	42:DI:285:GLN:HB3	1.60	0.67
41:GF:256:ASN:HD22	42:GG:101:ASN:HD22	1.40	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:JK:63:PRO:HG3	42:JK:86:LEU:HD23	1.75	0.67
42:MK:319:TYR:HE2	42:MK:328:VAL:HG13	1.58	0.67
41:ML:222:TYR:O	41:ML:226:ASN:ND2	2.28	0.67
41:PD:325:GLU:H	42:PE:221:ARG:HH12	1.40	0.67
42:QK:25:CYS:HA	42:QK:30:ILE:HG23	1.77	0.67
41:RH:113:VAL:HA	41:RH:116:VAL:HG22	1.76	0.67
41:UD:271:ALA:O	41:UD:292:GLN:NE2	2.27	0.67
14:2Y:128:VAL:HG21	42:MM:405:VAL:HG13	1.77	0.67
42:AG:284:GLU:OE1	42:KI:88:HIS:NE2	2.26	0.67
42:DI:107:HIS:HA	42:DI:152:LEU:HD22	1.75	0.67
42:DK:5:ILE:HD12	42:DK:125:LEU:HB3	1.76	0.67
42:DK:5:ILE:HD13	42:DK:64:ARG:HD3	1.77	0.67
41:FH:64:VAL:HA	41:FH:89:ASN:HB2	1.76	0.67
41:FH:272:PRO:HA	41:FH:282:ARG:HH22	1.60	0.67
42:HI:70:LEU:HB2	42:HI:149:PHE:CE2	2.28	0.67
41:KH:131:GLN:HE21	41:KH:250:LEU:HB2	1.60	0.67
41:OB:68:LEU:HB2	41:OB:97:ALA:HB2	1.77	0.67
42:OG:60:LYS:HE3	42:OG:86:LEU:HA	1.75	0.67
41:QD:310:TYR:HB2	41:QD:348:ASN:HD21	1.60	0.67
41:QL:254:ALA:HA	41:QL:257:MET:HG2	1.76	0.67
41:RD:328:GLU:HA	41:RD:331:LEU:HD23	1.77	0.67
41:RJ:61:PRO:HG3	41:RJ:84:ILE:HG23	1.75	0.67
42:TG:201:ALA:HB1	42:TG:203:MET:HE2	1.76	0.67
41:VF:100:ASN:ND2	41:VF:401:GLU:OE2	2.28	0.67
42:WG:324:VAL:HG12	42:WG:326:LYS:H	1.59	0.67
2:1E:63:LEU:HD22	26:4L:105:LEU:HB3	1.77	0.67
37:7F:53:PHE:HB3	41:OD:306:ARG:HE	1.60	0.67
41:CH:236:VAL:HG13	41:CH:237:THR:HG23	1.75	0.67
41:DJ:138:SER:HA	41:DJ:169:VAL:HG13	1.76	0.67
41:ED:372:THR:HG21	41:ED:426:GLN:HB2	1.74	0.67
42:GI:258:ASN:OD1	41:GJ:179:VAL:HG13	1.94	0.67
42:GM:172:TYR:OH	42:GM:388:TRP:HD1	1.77	0.67
42:QK:259:LEU:HD21	42:QK:316:CYS:HB2	1.76	0.67
41:QL:265:PHE:HB3	41:QL:374:ILE:HG12	1.76	0.67
42:SC:437:MET:O	41:SD:391:ARG:NH1	2.21	0.67
42:SM:50:ASN:O	42:SM:64:ARG:NH1	2.28	0.67
42:TM:293:ASN:HA	42:TM:296:PHE:HD2	1.59	0.67
33:5S:360:GLN:NE2	35:6Q:237:ASP:OD1	2.28	0.67
42:DG:71:GLU:HB3	42:DG:98:ASP:HA	1.77	0.67
42:EC:51:THR:HG21	42:EC:243:ARG:HG2	1.77	0.67
42:EK:248:LEU:HD13	42:EK:355:ILE:HD13	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:FC:51:THR:HG21	42:FC:243:ARG:HG2	1.75	0.67
41:FJ:252:LYS:NZ	45:FK:501:GTP:O3G	2.27	0.67
42:GK:88:HIS:HD2	42:GK:89:PRO:HD2	1.58	0.67
42:HG:206:ASN:HB3	45:HG:501:GTP:HN22	1.60	0.67
42:JK:269:LEU:HB3	42:JK:303:VAL:HG11	1.74	0.67
41:JL:358:PRO:HG2	41:JL:361:LEU:HB2	1.75	0.67
42:KE:102:ASN:HB3	42:KE:105:ARG:HB2	1.75	0.67
41:KL:237:THR:HG22	41:KL:250:LEU:HD11	1.77	0.67
42:LM:292:THR:HG21	42:LM:331:ALA:HB1	1.75	0.67
42:MC:7:VAL:HB	42:MC:137:ILE:HG22	1.75	0.67
41:MN:239:CYS:HB2	41:MN:247:ASN:HB3	1.75	0.67
42:OE:259:LEU:O	42:OE:380:ASN:ND2	2.28	0.67
42:PA:11:GLN:HG3	42:PA:74:VAL:HG11	1.76	0.67
42:PC:12:ALA:HB3	42:PC:140:SER:HB2	1.76	0.67
41:QF:331:LEU:HD11	42:QG:177:VAL:HA	1.77	0.67
41:QL:105:HIS:HA	41:QL:150:LEU:HG	1.76	0.67
41:RL:355:ASP:HB3	41:RL:356:ILE:HD12	1.77	0.67
42:SK:360:PRO:HG2	42:SK:371:VAL:HG12	1.77	0.67
41:SL:318:ARG:HD3	41:SL:358:PRO:HG3	1.75	0.67
42:TK:16:ILE:HA	42:TK:228:ASN:HB3	1.76	0.67
42:UI:311:LYS:HB3	42:UI:344:VAL:HG22	1.75	0.67
42:UM:207:GLU:HA	42:UM:210:TYR:HD2	1.60	0.67
42:WG:264:ARG:NH1	42:WG:431:ASP:OD2	2.27	0.67
42:WI:168:GLU:HG2	42:WI:201:ALA:HA	1.77	0.67
19:3L:97:LEU:HB2	19:3L:124:TYR:HB3	1.77	0.67
37:7C:113:LYS:NZ	41:SL:129:CYS:HB2	2.10	0.67
42:AK:104:ALA:CB	42:AK:411:GLU:HB2	2.24	0.67
41:BL:213:ARG:HD2	41:BL:297:LYS:HG3	1.74	0.67
42:DG:60:LYS:NZ	42:DG:85:GLN:O	2.27	0.67
42:JC:229:ARG:HD2	42:JC:363:VAL:HG11	1.76	0.67
41:KJ:178:THR:HB	41:KJ:181:GLU:HB2	1.76	0.67
42:LC:311:LYS:H	42:LC:382:THR:HB	1.58	0.67
42:MC:352:LYS:HA	41:MD:177:ASP:O	1.94	0.67
41:MD:132:GLY:HA2	41:MD:162:ARG:HB3	1.77	0.67
42:NG:11:GLN:HA	42:NG:74:VAL:HG11	1.76	0.67
42:NI:259:LEU:HD11	42:NI:316:CYS:HB2	1.76	0.67
42:NK:328:VAL:HG11	42:NK:353:VAL:HG21	1.77	0.67
41:PH:314:ALA:HA	41:PH:350:LYS:HB3	1.76	0.67
41:QH:222:TYR:HD1	41:QH:225:LEU:HD11	1.60	0.67
42:SC:316:CYS:HB2	42:SC:378:LEU:HB2	1.76	0.67
41:TH:258:VAL:HB	42:TI:407:TRP:HZ2	1.58	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:UG:168:GLU:HB3	42:UG:201:ALA:HA	1.77	0.67
34:6B:107:PHE:HZ	34:6C:360:LYS:HB2	1.57	0.67
41:AJ:312:THR:HG23	42:AK:181:VAL:HG11	1.77	0.67
41:CF:390:ARG:HG2	41:CF:391:ARG:HG2	1.76	0.67
42:DK:295:CYS:SG	42:DK:377:MET:HB3	2.35	0.67
42:EE:329:ASN:HA	42:EE:332:ILE:HD11	1.76	0.67
42:EI:185:TYR:HE2	42:EI:404:PHE:HB2	1.60	0.67
42:EK:139:HIS:HE1	42:EK:168:GLU:HG3	1.59	0.67
42:GK:70:LEU:HD23	42:GK:95:GLY:HA3	1.77	0.67
42:HG:274:PRO:HG3	42:HG:374:ALA:HA	1.76	0.67
42:KE:265:ILE:HG12	42:KE:432:TYR:HE1	1.59	0.67
41:KL:354:CYS:SG	41:KL:355:ASP:N	2.68	0.67
42:LE:7:VAL:HB	42:LE:137:ILE:HG12	1.77	0.67
42:OC:172:TYR:HB3	42:OC:205:ASP:HB3	1.77	0.67
42:PA:11:GLN:HA	42:PA:74:VAL:HG21	1.75	0.67
42:PE:213:CYS:HA	42:PE:217:LEU:HD12	1.76	0.67
42:TI:16:ILE:HG12	42:TI:228:ASN:HB2	1.77	0.67
42:TK:167:LEU:HD13	42:TK:252:LEU:HD13	1.77	0.67
42:UI:163:LYS:HD3	42:UI:164:LYS:H	1.59	0.67
11:2K:345:LYS:NZ	41:VJ:279:GLN:OE1	2.22	0.67
27:4R:194:LEU:N	27:4R:195:PRO:HD2	2.09	0.67
31:5D:61:SER:HB2	41:OB:35:THR:HG23	1.75	0.67
32:5L:307:GLU:HG2	32:5L:311:LYS:HE3	1.76	0.67
35:6P:63:ARG:NH1	35:6Q:415:ASP:OD2	2.28	0.67
41:BJ:228:LEU:HD11	41:BJ:273:LEU:HD11	1.77	0.67
42:CC:336:LYS:HD3	41:CD:175:VAL:HG12	1.76	0.67
42:CK:9:VAL:HG23	42:CK:139:HIS:HB3	1.77	0.67
42:CM:215:ARG:NH2	42:CM:299:ALA:O	2.28	0.67
41:DJ:42:LEU:HD13	41:DJ:356:ILE:HG12	1.75	0.67
41:EH:211:CYS:O	41:EH:215:LEU:N	2.27	0.67
41:FJ:245:GLN:HB3	42:FK:224:TYR:CD2	2.30	0.67
42:FM:276:ILE:HG22	42:FM:368:LEU:HB2	1.76	0.67
41:KH:48:ASN:O	41:KH:62:ARG:NH2	2.26	0.67
42:MC:1:MET:CE	41:MD:70:PRO:HG3	2.25	0.67
41:MN:372:THR:HG21	41:MN:426:GLN:HB2	1.77	0.67
42:NE:286:LEU:O	42:NE:373:ARG:NH1	2.28	0.67
41:OB:101:TRP:HB3	41:OB:398:TYR:HE1	1.60	0.67
42:PI:88:HIS:HB3	42:PI:91:GLN:HB3	1.76	0.67
42:QC:66:VAL:HG23	42:QC:125:LEU:HD11	1.77	0.67
42:QE:259:LEU:O	42:QE:380:ASN:ND2	2.28	0.67
41:RD:3:GLU:HG3	41:RD:127:CYS:HB3	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:RD:171:PRO:HG2	41:RD:185:ALA:HB2	1.76	0.67
41:UL:285:THR:HG22	41:UL:287:PRO:HD2	1.77	0.67
42:UM:137:ILE:HB	42:UM:168:GLU:HG3	1.76	0.67
16:3C:23:THR:HB	42:UE:123:ARG:HG2	1.76	0.66
24:4F:106:LYS:HZ2	41:HD:31:ASP:HB2	1.60	0.66
33:5R:199:ILE:HG22	33:5S:312:LYS:HB3	1.76	0.66
41:CD:354:CYS:SG	41:CD:355:ASP:N	2.68	0.66
41:CF:42:LEU:HD21	41:CF:243:PRO:CD	2.25	0.66
41:DJ:5:VAL:HG23	41:DJ:130:LEU:HD11	1.76	0.66
42:EG:328:VAL:HG11	42:EG:355:ILE:HD11	1.76	0.66
41:EJ:27:GLU:OE1	41:EJ:318:ARG:NH2	2.27	0.66
42:HE:88:HIS:CE1	42:IE:283:HIS:HB3	2.30	0.66
41:OB:170:VAL:HG21	41:OB:377:LEU:HD21	1.75	0.66
42:PC:310:GLY:HA3	42:PC:383:ALA:HB2	1.75	0.66
42:QC:188:ILE:HG22	42:QC:421:ALA:HB1	1.77	0.66
42:QE:288:VAL:HA	42:QE:291:ILE:HD12	1.77	0.66
41:QF:314:ALA:N	41:QF:368:ILE:O	2.28	0.66
41:QH:54:ALA:HA	41:RH:283:ALA:HA	0.77	0.66
41:RJ:322:SER:HB3	42:RK:221:ARG:HB3	1.78	0.66
42:SC:123:ARG:NH2	42:TC:293:ASN:OD1	2.28	0.66
41:UJ:270:PHE:HB3	41:UJ:273:LEU:HD11	1.76	0.66
41:VL:248:ALA:HA	41:VL:252:LYS:HD2	1.76	0.66
42:WK:142:GLY:HA3	42:WK:183:GLU:HG2	1.76	0.66
34:6G:196:ARG:NH2	34:6H:77:GLU:OE2	2.28	0.66
41:AH:271:ALA:HB1	41:AH:289:LEU:HG	1.76	0.66
41:EF:15:GLN:O	41:EF:226:ASN:ND2	2.28	0.66
42:FI:70:LEU:HD12	42:FI:145:THR:HG22	1.76	0.66
42:FK:204:VAL:CG1	42:FK:209:ILE:HD11	2.24	0.66
42:GE:288:VAL:HG11	42:GE:323:VAL:HG23	1.77	0.66
42:MC:8:HIS:HD2	42:MC:14:VAL:HA	1.60	0.66
42:PE:336:LYS:CG	42:PE:351:PHE:CZ	2.75	0.66
41:PJ:256:ASN:HD22	42:PK:181:VAL:HG13	1.61	0.66
41:QD:155:ILE:HD11	41:QD:164:MET:HE1	1.78	0.66
41:RB:127:CYS:SG	41:RB:128:ASP:N	2.67	0.66
42:RE:15:GLN:O	42:RE:228:ASN:ND2	2.28	0.66
42:RK:203:MET:HG3	42:RK:303:VAL:HG21	1.78	0.66
42:SE:228:ASN:HB2	45:SE:501:GTP:HN1	1.60	0.66
41:VD:48:ASN:O	41:VD:62:ARG:NH1	2.28	0.66
42:VM:3:GLU:HA	42:VM:51:THR:HA	1.78	0.66
27:4Q:142:ILE:HG21	27:4Q:179:ALA:HB1	1.77	0.66
33:5T:304:LEU:HG	33:5T:352:LEU:HB2	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:6M:170:GLU:OE1	34:6M:322:ARG:NH2	2.28	0.66
42:AC:271:THR:HB	42:AC:377:MET:HB3	1.76	0.66
41:CD:28:HIS:HA	41:CD:43:GLN:HB2	1.77	0.66
41:CL:318:ARG:HA	41:CL:354:CYS:HB3	1.76	0.66
42:DC:319:TYR:HB3	42:DC:323:VAL:HG11	1.78	0.66
42:DG:259:LEU:HD21	42:DG:268:PRO:HG3	1.76	0.66
42:EE:274:PRO:HG3	42:EE:374:ALA:HA	1.77	0.66
41:FF:16:ILE:HA	41:FF:226:ASN:HD22	1.60	0.66
41:FF:251:ARG:HG2	42:FG:100:ALA:HB2	1.78	0.66
41:FL:309:ARG:CZ	41:FL:311:LEU:HA	2.26	0.66
42:HM:3:GLU:HG3	42:HM:129:CYS:HB2	1.76	0.66
42:II:101:ASN:ND2	42:II:142:GLY:O	2.28	0.66
42:II:212:ILE:HD11	42:II:300:ASN:HA	1.76	0.66
42:MC:66:VAL:HA	42:MC:91:GLN:HB3	1.78	0.66
41:PB:252:LYS:HA	42:PC:100:ALA:HB1	1.76	0.66
42:PG:88:HIS:HB3	42:PG:91:GLN:HB3	1.76	0.66
19:3L:206:LYS:HD2	19:3L:207:MET:H	1.57	0.66
27:4Q:161:ASN:HB2	27:4Q:164:VAL:HG22	1.78	0.66
33:5S:77:MET:C	33:5S:79:ASP:N	2.48	0.66
34:6L:44:HIS:ND1	34:6L:70:THR:HA	2.10	0.66
41:DJ:65:LEU:HB2	41:DJ:90:PHE:HB3	1.75	0.66
41:EJ:252:LYS:HG3	41:EJ:350:LYS:HZ1	1.61	0.66
41:HH:324:LYS:CB	42:HI:222:PRO:HD2	2.26	0.66
42:HI:344:VAL:HG23	42:HI:347:CYS:HB2	1.78	0.66
41:KF:258:VAL:HG23	42:KG:407:TRP:HE1	1.60	0.66
41:OJ:377:LEU:HA	41:OJ:380:ARG:HE	1.61	0.66
42:PA:261:PRO:O	42:PA:262:TYR:C	2.33	0.66
42:PI:206:ASN:OD1	45:PI:501:GTP:N2	2.24	0.66
41:QJ:64:VAL:HG21	41:QJ:120:VAL:HG23	1.78	0.66
42:SG:70:LEU:HB3	42:SG:98:ASP:HA	1.77	0.66
42:UG:139:HIS:ND1	42:UG:168:GLU:OE2	2.28	0.66
41:VD:192:LEU:HD23	41:VD:196:THR:HG21	1.77	0.66
41:VH:346:PRO:HG3	42:VI:394:LYS:HB3	1.78	0.66
32:5M:351:LEU:HD11	32:5N:48:ILE:HG21	1.76	0.66
41:CB:318:ARG:HA	41:CB:354:CYS:HB3	1.78	0.66
41:DH:171:PRO:O	41:DH:172:SER:C	2.33	0.66
41:DH:253:LEU:HD23	41:DH:350:LYS:HE2	1.78	0.66
42:EC:329:ASN:HB3	41:ED:175:VAL:HG21	1.78	0.66
41:EJ:170:VAL:HG11	41:EJ:377:LEU:HD21	1.77	0.66
41:FH:120:VAL:HG11	41:FH:155:ILE:HD12	1.77	0.66
42:HI:70:LEU:HD13	42:HI:95:GLY:HA3	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:PD:313:VAL:HG23	41:PD:369:GLY:HA3	1.75	0.66
42:PG:434:GLU:HA	42:PG:437:MET:HG2	1.77	0.66
41:PL:308:GLY:HA3	41:PL:373:ALA:H	1.60	0.66
42:QG:209:ILE:HB	42:QG:227:LEU:HD11	1.77	0.66
41:QJ:181:GLU:HG3	41:QJ:182:PRO:HD3	1.78	0.66
41:TH:262:ARG:NH2	41:TH:414:ASN:OD1	2.29	0.66
41:UL:260:PHE:HB2	41:UL:263:LEU:HD13	1.77	0.66
42:VK:172:TYR:CE2	42:VK:390:ARG:NH2	2.63	0.66
41:VL:156:ARG:HG3	41:VL:195:ASN:HB2	1.77	0.66
42:VM:175:PRO:HD2	42:VM:207:GLU:HG3	1.78	0.66
24:4G:346:ARG:O	24:4G:346:ARG:NH1	2.29	0.66
26:4L:180:GLU:OE2	26:4L:184:GLN:NE2	2.28	0.66
42:BC:79:ARG:NH1	42:BC:92:LEU:O	2.28	0.66
41:CD:271:ALA:HB3	41:CD:272:PRO:HD3	1.77	0.66
41:CH:2:ARG:HB3	41:CH:131:GLN:HB2	1.76	0.66
41:CL:134:GLN:HE22	41:CL:165:ASN:HB2	1.59	0.66
41:FF:2:ARG:HH21	41:FF:249:ASP:HB3	1.60	0.66
42:FG:210:TYR:HE1	42:FG:227:LEU:HD21	1.61	0.66
42:HC:105:ARG:HA	42:HC:109:THR:HB	1.76	0.66
41:HD:66:VAL:HG23	41:HD:91:VAL:HB	1.76	0.66
42:HI:271:THR:HG21	42:HI:295:CYS:HA	1.77	0.66
42:HK:163:LYS:NZ	41:HL:401:GLU:OE1	2.28	0.66
42:HM:138:PHE:CZ	42:HM:235:VAL:HG21	2.30	0.66
42:II:402:ARG:HD3	42:II:405:VAL:HG21	1.77	0.66
41:OB:18:ALA:O	41:OB:22:GLU:HG2	1.96	0.66
42:OK:297:GLU:OE1	42:OK:300:ASN:ND2	2.25	0.66
42:PI:108:TYR:HE1	42:PI:413:MET:HG2	1.60	0.66
42:PK:12:ALA:CA	45:PK:501:GTP:HN22	2.09	0.66
41:QD:7:LEU:HB2	41:QD:135:LEU:HB3	1.78	0.66
42:RE:108:TYR:HA	42:RE:112:LYS:HE3	1.77	0.66
41:RF:91:VAL:HG21	41:RF:116:VAL:HG22	1.78	0.66
42:TG:291:ILE:HG22	42:TG:375:VAL:HG12	1.77	0.66
42:VG:88:HIS:HB3	42:VG:91:GLN:HG3	1.76	0.66
12:2P:239:THR:HG21	42:WG:39:ASP:HB2	1.76	0.66
15:3A:152:THR:HG22	41:JL:40:SER:HB3	1.78	0.66
20:3P:206:LYS:CG	42:BI:58:ALA:HA	2.24	0.66
37:7D:78:ARG:NH2	42:SC:94:THR:H	1.93	0.66
41:DD:97:ALA:HA	41:DD:103:LYS:HG2	1.77	0.66
42:EC:260:VAL:HG23	41:ED:397:TRP:HZ2	1.60	0.66
42:EE:317:LEU:HB3	42:EE:319:TYR:HE1	1.60	0.66
41:FH:133:PHE:HB2	41:FH:164:MET:HG2	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:FM:90:GLU:HG2	42:FM:121:ARG:HD2	1.76	0.66
41:OB:322:SER:HA	42:OC:223:THR:HG22	1.78	0.66
42:SE:425:MET:HA	42:SE:428:LEU:HD22	1.78	0.66
41:TF:61:PRO:HD3	41:TF:84:ILE:HG22	1.77	0.66
42:TG:88:HIS:HB3	42:TG:90:GLU:HG2	1.77	0.66
41:UD:213:ARG:O	41:UD:216:LYS:HG2	1.96	0.66
41:VD:2:ARG:NH1	42:VE:71:GLU:OE2	2.28	0.66
41:WH:314:ALA:HB3	41:WH:368:ILE:HB	1.76	0.66
42:WM:133:GLN:NE2	42:WM:251:ASP:OD1	2.23	0.66
11:2M:446:ARG:HH12	41:UJ:360:GLY:HA2	1.58	0.66
19:3K:299:LYS:HB2	19:3K:322:GLU:HB3	1.77	0.66
32:5M:43:ARG:HG3	33:5Q:43:ARG:HD2	1.78	0.66
32:5M:310:ALA:HB2	32:5M:344:ILE:HG21	1.77	0.66
35:6T:162:ARG:NH2	35:6T:168:VAL:O	2.28	0.66
35:6V:249:GLU:HB3	35:6W:10:LYS:HD2	1.78	0.66
42:CG:62:VAL:HG21	42:DG:283:HIS:HB3	1.78	0.66
42:EE:408:TYR:HB3	42:EE:418:PHE:HZ	1.60	0.66
41:EJ:204:ASN:HD21	41:EJ:225:LEU:HA	1.59	0.66
42:FE:316:CYS:HB3	42:FE:378:LEU:HB2	1.77	0.66
42:HI:348:PRO:CB	41:HJ:384:GLN:HG2	2.25	0.66
41:IL:316:VAL:HG12	41:IL:352:ALA:HB3	1.77	0.66
41:JJ:178:THR:HB	41:JJ:181:GLU:HG3	1.78	0.66
42:MK:304:LYS:HB3	42:MK:390:ARG:HH22	1.59	0.66
42:PG:399:TYR:N	42:PG:402:ARG:HB3	2.09	0.66
41:RF:68:LEU:HD11	41:RF:147:MET:HB2	1.76	0.66
42:SK:336:LYS:HE2	42:SK:351:PHE:HD2	1.61	0.66
41:SL:320:ARG:HA	41:SL:355:ASP:HA	1.78	0.66
41:TL:32:PRO:HB3	41:TL:81:PHE:HA	1.77	0.66
42:WG:2:ARG:NE	42:WG:242:LEU:O	2.28	0.66
41:WL:319:GLY:HA2	41:WL:357:PRO:HG3	1.78	0.66
41:WN:118:ASP:OD2	41:WN:122:LYS:NZ	2.29	0.66
2:1E:76:ILE:HG12	42:HG:342:GLN:HG2	1.76	0.66
19:3L:497:GLU:HG2	19:3L:502:ARG:HG3	1.77	0.66
33:5S:324:ARG:HE	33:5S:329:LEU:HA	1.59	0.66
42:AG:311:LYS:H	42:AG:382:THR:HG22	1.60	0.66
42:BC:88:HIS:HD2	42:CC:283:HIS:HB2	1.60	0.66
41:CB:354:CYS:SG	41:CB:355:ASP:N	2.68	0.66
41:CJ:28:HIS:HA	41:CJ:43:GLN:HG2	1.78	0.66
41:EF:3:GLU:HB3	41:EF:62:ARG:HH12	1.61	0.66
41:FD:289:LEU:HD21	41:FD:365:ALA:HB2	1.76	0.66
42:FK:4:CYS:HB3	42:FK:136:LEU:HD11	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:FM:301:GLN:NE2	42:FM:303:VAL:O	2.27	0.66
41:GJ:389:PHE:CE1	41:GJ:405:GLU:HG3	2.31	0.66
42:HG:259:LEU:HD11	42:HG:268:PRO:HB3	1.77	0.66
41:IN:216:LYS:HG2	41:IN:275:SER:HB2	1.77	0.66
41:JF:354:CYS:SG	41:JF:355:ASP:N	2.68	0.66
41:LD:256:ASN:HD21	42:LE:182:VAL:HG22	1.61	0.66
41:MH:178:THR:HB	41:MH:181:GLU:HB3	1.76	0.66
42:NC:115:ILE:HG13	42:NC:152:LEU:HG	1.77	0.66
41:ND:311:LEU:HD12	41:ND:342:VAL:HG11	1.78	0.66
41:NH:61:PRO:HG3	41:NH:84:ILE:HG23	1.78	0.66
42:NK:259:LEU:HD11	42:NK:378:LEU:HB3	1.76	0.66
42:OA:89:PRO:HD3	42:PA:283:HIS:CE1	2.30	0.66
41:OB:319:GLY:HA2	41:OB:357:PRO:HB3	1.78	0.66
42:OC:98:ASP:O	42:OC:105:ARG:NH1	2.29	0.66
41:OD:175:VAL:HG13	41:OD:176:SER:H	1.60	0.66
41:RF:324:LYS:HG3	42:RG:222:PRO:HD2	1.78	0.66
41:SH:248:ALA:HA	41:SH:252:LYS:HD3	1.78	0.66
42:SK:133:GLN:HE22	42:SK:252:LEU:HD12	1.61	0.66
42:TM:99:ALA:HB2	42:TM:145:THR:HG23	1.78	0.66
42:TM:316:CYS:HA	42:TM:352:LYS:HB3	1.78	0.66
42:WM:320:ARG:HH12	42:WM:360:PRO:HB3	1.60	0.66
2:1D:228:LYS:HE3	26:4K:283:LEU:HA	1.77	0.66
19:3L:432:GLU:HB2	41:FL:276:ARG:HE	1.61	0.66
20:3P:217:ARG:HB2	20:3P:343:ASP:HB2	1.78	0.66
24:4F:102:ARG:HH12	24:4F:105:LEU:HD23	1.61	0.66
35:6S:312:GLU:OE2	35:6S:427:ARG:NH2	2.29	0.66
41:AJ:178:THR:HB	41:AJ:181:GLU:HG3	1.78	0.66
41:CL:104:GLY:HA2	41:CL:109:GLY:HA3	1.77	0.66
42:DE:437:MET:O	41:DF:391:ARG:NH2	2.29	0.66
42:EE:108:TYR:HH	42:EE:413:MET:HB3	1.61	0.66
41:EH:284:LEU:HD21	41:EH:363:MET:HB2	1.78	0.66
41:FD:243:PRO:HD2	41:FD:356:ILE:HG13	1.78	0.66
41:GL:323:MET:N	41:GL:323:MET:SD	2.69	0.66
41:IL:248:ALA:HA	41:IL:252:LYS:HD3	1.77	0.66
42:LK:240:ALA:HA	42:LK:243:ARG:HB2	1.76	0.66
41:MJ:248:ALA:HA	41:MJ:252:LYS:HG2	1.78	0.66
41:NB:61:PRO:HD3	41:NB:84:ILE:HG12	1.78	0.66
42:NI:65:ALA:HB3	42:NI:91:GLN:HE22	1.58	0.66
42:OE:248:LEU:HB3	42:OE:355:ILE:H	1.60	0.66
42:PA:288:VAL:HA	42:PA:291:ILE:HG13	1.76	0.66
41:PJ:322:SER:O	41:PJ:325:GLU:HG2	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:PK:195:LEU:HD22	42:PK:264:ARG:HE	1.60	0.66
41:RD:286:VAL:HA	41:RD:289:LEU:HD12	1.77	0.66
41:RF:318:ARG:HA	41:RF:354:CYS:HB3	1.78	0.66
41:SD:8:GLN:HE21	41:SD:14:ASN:HA	1.60	0.66
42:SI:99:ALA:HA	42:SI:105:ARG:HG2	1.78	0.66
41:UD:276:ARG:HA	41:UD:279:GLN:HE22	1.60	0.66
42:VK:346:TRP:CD1	41:VL:391:ARG:HD3	2.31	0.66
33:5V:252:ASN:CB	34:6A:320:LYS:HE3	2.25	0.65
41:DF:10:GLY:HA2	41:DF:143:THR:HG23	1.76	0.65
41:DJ:54:ALA:HB3	41:DJ:57:GLY:O	1.95	0.65
42:FG:252:LEU:HA	42:FG:255:PHE:HD2	1.61	0.65
42:HK:204:VAL:HG21	42:HK:303:VAL:HA	1.76	0.65
41:IJ:248:ALA:HA	41:IJ:252:LYS:HD3	1.77	0.65
41:KF:190:HIS:HD2	41:KF:411:ALA:HA	1.61	0.65
42:LK:326:LYS:HE3	41:LL:212:PHE:HB2	1.77	0.65
42:NE:98:ASP:OD2	42:NE:100:ALA:N	2.21	0.65
42:QG:206:ASN:ND2	45:QG:501:GTP:N3	2.43	0.65
41:RB:24:ILE:HA	41:RB:241:ARG:HH22	1.60	0.65
42:SE:103:TYR:HB2	42:SE:186:ASN:HB3	1.78	0.65
42:SE:261:PRO:HD2	42:SE:265:ILE:HB	1.77	0.65
42:SI:250:VAL:HG21	42:SI:318:LEU:HD22	1.77	0.65
41:TL:252:LYS:O	41:TL:256:ASN:ND2	2.29	0.65
41:VJ:259:PRO:HB2	41:VJ:263:LEU:HD12	1.76	0.65
42:VM:311:LYS:HE3	42:VM:344:VAL:HG12	1.78	0.65
41:WJ:207:LEU:HD22	41:WJ:225:LEU:HG	1.77	0.65
41:WL:49:VAL:HG11	41:WL:241:ARG:HG2	1.76	0.65
12:2Q:150:ALA:HB1	42:VK:42:ILE:HG22	1.78	0.65
19:3K:472:VAL:HG21	19:3K:498:VAL:HG13	1.78	0.65
20:3O:451:VAL:HG23	20:3O:466:PHE:HB3	1.78	0.65
31:5I:15:LYS:HD2	31:5I:145:ILE:HD11	1.78	0.65
34:6K:43:THR:N	34:6K:69:CYS:O	2.29	0.65
42:BC:70:LEU:HD12	42:BC:99:ALA:HB2	1.78	0.65
41:BH:173:PRO:HB3	41:BH:380:ARG:HD2	1.78	0.65
41:DH:171:PRO:HB2	41:DH:181:GLU:HG3	1.77	0.65
42:EG:259:LEU:HD21	42:EG:316:CYS:HB2	1.78	0.65
42:FM:209:ILE:HG13	42:FM:212:ILE:HD11	1.78	0.65
42:GE:25:CYS:HA	42:GE:30:ILE:HB	1.78	0.65
41:KL:2:ARG:HH12	42:KM:71:GLU:HG2	1.60	0.65
41:LH:27:GLU:OE2	41:LH:318:ARG:NH2	2.27	0.65
42:OE:265:ILE:HD11	42:OE:431:ASP:HB3	1.78	0.65
42:PI:63:PRO:HG3	42:PI:87:PHE:HA	1.76	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:QL:11:GLN:HB2	41:QL:72:THR:HG21	1.79	0.65
41:UD:248:ALA:HA	41:UD:252:LYS:HD3	1.77	0.65
42:VE:381:THR:HG22	42:VE:383:ALA:H	1.61	0.65
41:WL:285:THR:HG22	41:WL:287:PRO:HD2	1.77	0.65
41:WL:327:ASP:HB3	42:WM:177:VAL:HG21	1.77	0.65
2:1D:125:GLU:OE1	28:4V:120:ARG:NH2	2.29	0.65
16:3C:94:LEU:HD11	41:VH:309:ARG:HE	1.61	0.65
24:4G:307:LEU:HG	42:HI:364:PRO:HB3	1.77	0.65
32:5M:99:GLN:HG3	32:5M:154:LEU:HD11	1.78	0.65
34:6G:340:PHE:HE2	34:6G:480:PHE:HB2	1.62	0.65
42:BK:348:PRO:HG2	41:BL:384:GLN:HG3	1.77	0.65
42:CK:184:PRO:HG3	42:CK:394:LYS:HE3	1.78	0.65
41:EJ:200:TYR:HD2	41:EJ:268:PRO:HG3	1.61	0.65
41:EL:178:THR:HB	41:EL:181:GLU:HG3	1.78	0.65
41:FD:314:ALA:HB3	41:FD:368:ILE:HG23	1.77	0.65
42:GM:125:LEU:HA	42:GM:128:GLN:HE22	1.60	0.65
42:HG:132:LEU:HD23	42:HG:164:LYS:HE3	1.77	0.65
41:IL:330:MET:HG2	41:IL:349:VAL:HG11	1.78	0.65
42:NK:228:ASN:HD21	45:NK:501:GTP:HN1	1.41	0.65
41:OJ:271:ALA:HB3	41:OJ:272:PRO:HD3	1.79	0.65
41:OL:268:PRO:HD2	41:OL:301:ALA:HB2	1.79	0.65
41:PF:132:GLY:HA2	41:PF:162:ARG:HB3	1.79	0.65
42:PI:302:MET:O	42:PI:303:VAL:C	2.34	0.65
42:QE:170:SER:OG	42:QE:171:ILE:N	2.28	0.65
42:RE:53:PHE:HB3	42:RE:61:HIS:HB3	1.78	0.65
42:VK:172:TYR:OH	42:VK:390:ARG:NH2	2.29	0.65
9:2D:354:GLY:HA3	42:HG:80:THR:HG22	1.77	0.65
9:2D:567:TYR:CZ	41:IN:276:ARG:CZ	2.80	0.65
11:2J:190:LYS:NZ	41:VD:219:THR:O	2.28	0.65
20:3O:646:ARG:CZ	41:ED:38:GLY:H	2.09	0.65
34:6L:66:ASP:HB2	35:6R:256:THR:HG23	1.78	0.65
41:BH:273:LEU:O	41:BH:292:GLN:NE2	2.28	0.65
42:DM:143:GLY:O	42:DM:186:ASN:ND2	2.30	0.65
41:EF:122:LYS:HD2	41:FF:291:GLN:HE21	1.61	0.65
42:EG:16:ILE:HA	42:EG:228:ASN:OD1	1.95	0.65
41:EL:286:VAL:HB	41:EL:287:PRO:HD3	1.78	0.65
42:FI:223:THR:OG1	42:FI:224:TYR:N	2.27	0.65
42:HC:133:GLN:HG3	42:HC:242:LEU:HD11	1.79	0.65
42:IG:102:ASN:ND2	42:IG:411:GLU:OE1	2.30	0.65
41:IN:86:ARG:CZ	42:JM:283:HIS:HB2	2.26	0.65
42:JI:188:ILE:HG22	42:JI:421:ALA:HB1	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:JK:346:TRP:HB3	41:JL:391:ARG:HG3	1.78	0.65
42:KE:195:LEU:HD12	42:KE:196:GLU:HG2	1.78	0.65
41:KH:52:ASN:ND2	41:KH:123:GLU:OE2	2.29	0.65
41:ML:248:ALA:HB2	41:ML:352:ALA:HB3	1.78	0.65
42:OI:320:ARG:HB3	42:OI:374:ALA:HB3	1.77	0.65
42:PE:167:LEU:HB3	42:PE:202:PHE:HE2	1.61	0.65
42:PI:31:GLN:O	42:PI:33:ASP:N	2.29	0.65
42:PI:166:LYS:O	42:PI:167:LEU:C	2.35	0.65
42:SK:259:LEU:O	42:SK:380:ASN:ND2	2.29	0.65
42:TE:172:TYR:HB3	42:TE:205:ASP:HB3	1.79	0.65
41:TF:242:PHE:HB3	41:TF:356:ILE:HD13	1.79	0.65
42:TG:64:ARG:NH1	42:TG:129:CYS:SG	2.70	0.65
41:TH:178:THR:HB	41:TH:181:GLU:HB2	1.78	0.65
41:TJ:275:SER:OG	41:TJ:276:ARG:N	2.27	0.65
41:UJ:252:LYS:NZ	42:UK:101:ASN:OD1	2.29	0.65
42:UK:336:LYS:HA	42:UK:343:PHE:CE2	2.31	0.65
42:WE:250:VAL:HG11	42:WE:318:LEU:HD21	1.79	0.65
22:3Z:31:MET:HB3	41:CH:320:ARG:HH12	1.59	0.65
32:5L:320:ARG:HB3	32:5L:323:ARG:HH21	1.62	0.65
33:5X:365:ALA:O	33:5Y:31:GLN:NE2	2.29	0.65
41:AL:86:ARG:HA	41:BL:281:TYR:CD2	2.31	0.65
42:EM:111:GLY:O	42:EM:113:GLU:N	2.30	0.65
42:FE:133:GLN:NE2	42:FE:251:ASP:OD1	2.29	0.65
41:FH:331:LEU:HD22	42:FI:177:VAL:HG22	1.78	0.65
41:GD:259:PRO:HA	42:GE:404:PHE:CE1	2.32	0.65
41:GF:86:ARG:HG3	41:GF:89:ASN:HB2	1.77	0.65
42:GI:234:ILE:HG12	42:GI:270:ALA:HB1	1.79	0.65
42:GK:137:ILE:HB	42:GK:168:GLU:HG2	1.77	0.65
42:GK:281:ALA:HB1	42:GK:370:LYS:HB2	1.77	0.65
41:GL:2:ARG:N	41:GL:129:CYS:SG	2.69	0.65
42:IM:262:TYR:HB2	42:IM:265:ILE:HG12	1.77	0.65
41:JL:132:GLY:HA3	41:JL:163:ILE:HG22	1.78	0.65
42:LG:311:LYS:H	42:LG:382:THR:HB	1.61	0.65
42:MK:392:ASP:OD2	42:MK:422:ARG:NH1	2.30	0.65
42:PG:63:PRO:HG3	42:PG:86:LEU:HG	1.78	0.65
41:PH:68:LEU:HD21	41:PH:108:GLU:HG2	1.78	0.65
41:RB:316:VAL:HA	41:RB:352:ALA:HB3	1.78	0.65
42:RG:213:CYS:HA	42:RG:217:LEU:HD12	1.79	0.65
42:RK:30:ILE:HG23	42:RK:34:GLY:HA2	1.78	0.65
42:SM:123:ARG:NH2	42:TM:297:GLU:OE2	2.29	0.65
41:UL:252:LYS:NZ	42:UM:101:ASN:OD1	2.28	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:VD:3:GLU:OE2	41:VD:62:ARG:NH1	2.30	0.65
41:VF:10:GLY:HA2	41:VF:143:THR:HG23	1.78	0.65
9:2D:310:LYS:H	42:IE:373:ARG:HH12	1.41	0.65
33:5V:263:PHE:CZ	34:6A:159:GLU:HG3	2.30	0.65
34:6E:380:GLU:OE1	34:6E:383:LYS:NZ	2.27	0.65
42:AE:311:LYS:H	42:AE:382:THR:HG22	1.61	0.65
42:BC:175:PRO:HA	42:BC:390:ARG:HH12	1.62	0.65
42:BE:254:GLU:OE2	41:BF:99:ASN:ND2	2.29	0.65
42:CG:106:GLY:CA	42:CG:111:GLY:HA3	2.25	0.65
42:EM:105:ARG:HA	42:EM:109:THR:HB	1.78	0.65
41:GF:99:ASN:HA	41:GF:142:GLY:H	1.61	0.65
42:HC:414:GLU:HG2	42:HC:416:GLY:H	1.62	0.65
42:IG:319:TYR:HB3	42:IG:323:VAL:HG11	1.77	0.65
41:IN:228:LEU:HA	41:IN:270:PHE:HZ	1.59	0.65
42:KK:69:ASP:HB3	42:KK:75:ILE:HD11	1.77	0.65
41:OB:272:PRO:HD3	41:OB:364:SER:HA	1.79	0.65
42:OI:60:LYS:HD2	42:OI:61:HIS:H	1.61	0.65
42:PC:51:THR:HG21	42:PC:243:ARG:HB2	1.79	0.65
42:QC:66:VAL:HA	42:QC:91:GLN:HG3	1.77	0.65
41:SD:272:PRO:HG3	41:SD:364:SER:HA	1.77	0.65
42:TE:3:GLU:HA	42:TE:51:THR:HA	1.78	0.65
42:TG:98:ASP:O	42:TG:105:ARG:NH2	2.29	0.65
41:UJ:131:GLN:HE22	41:UJ:240:LEU:HD21	1.61	0.65
41:VH:45:GLU:HG2	41:VH:46:ARG:HG2	1.78	0.65
41:WL:256:ASN:HB2	42:WM:181:VAL:HB	1.76	0.65
20:3O:423:PHE:HD2	20:3O:510:ASN:HB2	1.61	0.65
35:6U:369:CYS:SG	35:6V:106:ARG:NH2	2.69	0.65
41:CF:165:ASN:HA	41:CF:198:GLU:HB3	1.78	0.65
41:CH:247:ASN:O	41:CH:252:LYS:NZ	2.29	0.65
42:CM:107:HIS:HE1	42:CM:155:GLU:HG3	1.62	0.65
41:DF:259:PRO:HG2	41:DF:263:LEU:HD12	1.78	0.65
41:DJ:20:PHE:HA	41:DJ:230:SER:HB3	1.77	0.65
42:DK:139:HIS:HE1	42:DK:168:GLU:HB3	1.60	0.65
42:FI:135:PHE:H	42:FI:166:LYS:HA	1.61	0.65
42:HC:70:LEU:HG	42:HC:110:ILE:HG23	1.78	0.65
42:MK:119:LEU:HD13	42:MK:122:ILE:HD11	1.79	0.65
42:OA:254:GLU:O	42:OA:258:ASN:ND2	2.30	0.65
41:PH:310:TYR:HA	41:PH:371:SER:HA	1.79	0.65
41:QH:346:PRO:HG3	42:QI:394:LYS:HB3	1.79	0.65
42:RI:176:GLN:HG2	42:RI:177:VAL:HG13	1.79	0.65
42:SC:217:LEU:O	42:SC:280:LYS:NZ	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:SE:326:LYS:HD2	41:SF:220:PRO:HD2	1.79	0.65
42:SI:30:ILE:HG13	42:SI:36:MET:HG2	1.78	0.65
42:SM:5:ILE:HG13	42:SM:64:ARG:HB3	1.78	0.65
41:TL:64:VAL:HG21	41:TL:120:VAL:HG12	1.77	0.65
42:WC:108:TYR:O	42:WC:112:LYS:NZ	2.26	0.65
21:3U:129:VAL:HG21	42:LK:114:LEU:HD23	1.77	0.65
32:5O:122:ARG:HA	32:5O:381:ASN:HD21	1.60	0.65
37:7F:87:TYR:CD2	41:OB:291:GLN:HB2	2.32	0.65
42:AG:22:GLU:OE2	42:AG:229:ARG:NH1	2.29	0.65
41:CF:393:ALA:O	41:CF:395:LEU:N	2.29	0.65
42:CI:70:LEU:HA	42:CI:95:GLY:HA3	1.78	0.65
42:DE:273:ALA:HB2	42:DE:295:CYS:HB3	1.79	0.65
41:DF:198:GLU:HA	41:DF:264:HIS:HB2	1.79	0.65
42:EE:259:LEU:HD11	42:EE:378:LEU:HB3	1.78	0.65
42:EE:286:LEU:HD13	42:EE:371:VAL:HG23	1.78	0.65
41:GJ:113:VAL:HG23	41:GJ:151:LEU:HD23	1.77	0.65
41:HD:19:LYS:HG3	41:HD:226:ASN:HB3	1.77	0.65
41:HF:248:ALA:HA	41:HF:252:LYS:HE2	1.79	0.65
41:HH:252:LYS:HG3	42:HI:100:ALA:HA	1.77	0.65
41:IJ:313:VAL:HB	41:IJ:349:VAL:HG22	1.79	0.65
41:IN:102:ALA:HB1	41:IN:401:GLU:HB3	1.79	0.65
41:LL:173:PRO:HD2	41:LL:205:GLU:HG3	1.79	0.65
41:MF:256:ASN:HD21	42:MG:101:ASN:HD22	1.44	0.65
41:PD:113:VAL:HG21	41:PD:150:LEU:HD23	1.78	0.65
41:QH:258:VAL:HG13	42:QI:407:TRP:HH2	1.60	0.65
41:RB:21:TRP:HB3	41:RB:81:PHE:HE2	1.61	0.65
41:RD:19:LYS:HG2	41:RD:227:HIS:HA	1.78	0.65
42:RI:141:PHE:HB2	42:RI:172:TYR:HA	1.78	0.65
42:SE:102:ASN:HD21	42:SE:408:TYR:HA	1.62	0.65
41:SF:54:ALA:HB3	41:SF:58:LYS:HB3	1.79	0.65
2:1E:76:ILE:CG1	42:HG:342:GLN:HG2	2.26	0.65
10:2H:75:ARG:HG2	42:AK:298:PRO:HG3	1.78	0.65
25:4J:235:LYS:HD2	25:4J:369:GLN:HG2	1.79	0.65
42:CG:118:VAL:HG21	42:CG:153:LEU:HD11	1.79	0.65
41:DF:236:VAL:HG12	41:DF:368:ILE:HD13	1.77	0.65
42:FC:66:VAL:O	42:FC:68:VAL:N	2.30	0.65
41:GD:331:LEU:HG	41:GD:335:ASN:HD21	1.60	0.65
42:GE:129:CYS:SG	42:GE:130:THR:N	2.69	0.65
42:JC:269:LEU:HD11	42:JC:384:ILE:HD13	1.78	0.65
41:JH:331:LEU:HD13	42:JI:177:VAL:HB	1.79	0.65
41:MD:290:THR:HA	41:MD:293:MET:HG2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:MD:358:PRO:HG3	41:MD:364:SER:HB3	1.77	0.65
41:ML:67:ASP:HA	41:ML:143:THR:HG21	1.77	0.65
41:MN:178:THR:HB	41:MN:181:GLU:HB3	1.79	0.65
41:ND:69:GLU:HG3	41:ND:96:GLY:HA2	1.78	0.65
41:NH:70:PRO:HD3	41:NH:94:GLN:HA	1.79	0.65
41:OD:268:PRO:HG2	41:OD:300:MET:HB2	1.79	0.65
41:PH:261:PRO:HD2	42:PI:406:HIS:CG	2.32	0.65
41:PH:271:ALA:HB3	41:PH:272:PRO:HD3	1.77	0.65
41:RD:68:LEU:HD12	41:RD:143:THR:HA	1.77	0.65
41:RD:139:LEU:HB3	41:RD:171:PRO:HD3	1.79	0.65
41:VJ:248:ALA:HA	41:VJ:252:LYS:HD2	1.77	0.65
42:WE:104:ALA:HA	42:WE:108:TYR:HD1	1.62	0.65
41:WF:44:LEU:HD12	41:WF:47:ILE:HD13	1.78	0.65
34:6A:150:VAL:HG22	34:6A:268:ASP:HB3	1.78	0.65
41:AL:214:THR:HG22	41:AL:215:LEU:HG	1.79	0.65
42:EC:74:VAL:HG13	42:EC:75:ILE:HG13	1.79	0.65
41:EJ:127:CYS:SG	41:EJ:128:ASP:N	2.70	0.65
41:FF:245:GLN:O	42:FG:11:GLN:NE2	2.30	0.65
42:FK:213:CYS:HB3	42:FK:222:PRO:HB3	1.79	0.65
41:GJ:358:PRO:HD3	41:GJ:364:SER:HB3	1.79	0.65
42:GM:246:GLY:HA2	42:GM:357:TYR:CG	2.31	0.65
42:HE:66:VAL:HG11	42:HE:118:VAL:HG13	1.79	0.65
42:HG:56:THR:HG21	42:HG:60:LYS:HB3	1.79	0.65
41:HJ:171:PRO:HB3	41:HJ:181:GLU:HG2	1.78	0.65
41:ID:34:GLY:HA3	41:ID:58:LYS:HG3	1.79	0.65
41:ID:344:TRP:CZ2	42:IE:401:LYS:HB2	2.32	0.65
42:JG:2:ARG:NH1	42:JG:242:LEU:O	2.29	0.65
41:KL:237:THR:OG1	41:KL:241:ARG:NH1	2.30	0.65
41:NB:331:LEU:HG	41:NB:335:ASN:HD21	1.62	0.65
41:NJ:226:ASN:HD21	43:NJ:501:GDP:HN1	1.43	0.65
42:PC:385:ALA:HA	42:PC:388:TRP:CD1	2.32	0.65
42:PG:392:ASP:C	42:PG:394:LYS:H	2.00	0.65
41:RJ:103:LYS:HB3	41:RJ:107:THR:HB	1.79	0.65
41:WJ:202:ILE:HG12	41:WJ:268:PRO:HG3	1.79	0.65
41:WJ:376:GLU:HA	41:WJ:379:LYS:HG2	1.76	0.65
7:1T:256:ARG:HB2	42:MC:44:GLY:HA3	1.79	0.64
19:3J:247:ALA:HB2	19:3J:344:ILE:HD13	1.79	0.64
20:3P:543:CYS:O	20:3P:546:ARG:NH1	2.30	0.64
35:6V:164:HIS:HB3	35:6V:165:PRO:HD2	1.79	0.64
41:AD:237:THR:HG22	41:AD:250:LEU:HD21	1.77	0.64
42:CG:195:LEU:HD11	42:CG:428:LEU:HB2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DD:66:VAL:HG12	41:DD:91:VAL:HB	1.79	0.64
41:ED:294:PHE:CZ	41:ED:313:VAL:HG11	2.31	0.64
41:EH:173:PRO:HB3	41:EH:380:ARG:HD2	1.79	0.64
42:HI:352:LYS:HA	41:HJ:177:ASP:O	1.97	0.64
41:IH:260:PHE:HB2	41:IH:263:LEU:HD13	1.79	0.64
42:IM:392:ASP:OD2	42:IM:422:ARG:NH1	2.30	0.64
41:JH:290:THR:HG23	41:JH:329:GLN:HE21	1.60	0.64
42:KI:326:LYS:HD3	41:KJ:220:PRO:HD2	1.80	0.64
42:LC:284:GLU:OE2	42:MC:88:HIS:NE2	2.26	0.64
42:LK:119:LEU:HD11	42:LK:156:ARG:HB3	1.78	0.64
42:NK:199:ASP:HB3	42:NK:256:GLN:HE22	1.61	0.64
42:QE:9:VAL:HG23	42:QE:68:VAL:HB	1.80	0.64
41:RF:21:TRP:CD1	41:RF:61:PRO:HB2	2.32	0.64
42:RG:54:SER:HB3	42:RG:62:VAL:HB	1.78	0.64
42:SC:274:PRO:HG3	42:SC:374:ALA:HA	1.79	0.64
41:SF:34:GLY:HA3	41:SF:58:LYS:HA	1.78	0.64
41:SJ:330:MET:HB3	41:SJ:349:VAL:HG11	1.77	0.64
41:SL:135:LEU:HD13	41:SL:151:LEU:HD11	1.78	0.64
41:TF:207:LEU:HB3	41:TF:225:LEU:HD11	1.79	0.64
22:3Y:250:GLN:HE22	22:3Y:258:LEU:HG	1.63	0.64
33:5S:268:ARG:NH1	33:5S:271:GLU:OE1	2.30	0.64
33:5X:106:LYS:HD2	33:5X:147:THR:HG21	1.79	0.64
34:6E:386:ILE:HA	34:6E:389:LYS:HZ3	1.62	0.64
42:BI:89:PRO:HD3	42:CI:283:HIS:ND1	2.12	0.64
41:DD:104:GLY:HA2	41:DD:109:GLY:HA3	1.79	0.64
42:DI:141:PHE:HB2	42:DI:173:PRO:HD3	1.79	0.64
42:FC:158:SER:HA	42:FC:162:GLY:CA	2.27	0.64
41:FD:259:PRO:O	42:FE:406:HIS:HE1	1.80	0.64
41:GJ:62:ARG:HG3	41:GJ:123:GLU:HG3	1.79	0.64
41:HJ:54:ALA:HB3	41:HJ:58:LYS:HB2	1.80	0.64
41:MD:143:THR:N	43:MD:501:GDP:O1B	2.30	0.64
42:MM:75:ILE:HG23	42:MM:92:LEU:HD12	1.79	0.64
41:MN:91:VAL:HG11	41:MN:116:VAL:HG22	1.78	0.64
42:NG:122:ILE:HD13	42:NG:157:LEU:HD11	1.80	0.64
42:OC:129:CYS:SG	42:OC:130:THR:N	2.71	0.64
42:PC:136:LEU:HA	42:PC:167:LEU:HB3	1.79	0.64
42:PG:5:ILE:HD12	42:PG:125:LEU:HB3	1.78	0.64
42:PG:31:GLN:C	42:PG:33:ASP:H	2.01	0.64
41:PH:328:GLU:HG3	41:PH:332:ASN:HD21	1.62	0.64
42:QE:224:TYR:HA	42:QE:227:LEU:HG	1.80	0.64
41:QF:270:PHE:O	41:QF:298:ASN:ND2	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:QL:170:VAL:HG11	41:QL:201:CYS:HB3	1.79	0.64
41:SJ:213:ARG:NH1	41:SJ:214:THR:OG1	2.30	0.64
41:TF:375:GLN:HE22	41:TF:419:VAL:HA	1.62	0.64
41:UH:314:ALA:HB3	41:UH:368:ILE:HB	1.78	0.64
41:VL:330:MET:HB3	41:VL:349:VAL:HG11	1.78	0.64
6:1R:43:ARG:NH1	41:JL:74:ASP:HB3	2.11	0.64
22:4A:19:GLY:O	42:BK:79:ARG:NH1	2.31	0.64
22:4B:18:PRO:HG2	42:CM:280:LYS:HE2	1.76	0.64
23:4D:21:ARG:NH1	41:UJ:218:THR:O	2.30	0.64
33:5S:201:LEU:HG	33:5T:312:LYS:HG2	1.78	0.64
34:6B:300:TRP:HD1	34:6C:409:ILE:HG13	1.63	0.64
41:BJ:218:THR:HG23	41:BJ:219:THR:HG22	1.78	0.64
41:CF:254:ALA:HA	41:CF:257:MET:HG2	1.80	0.64
41:GJ:8:GLN:HA	41:GJ:136:THR:HG23	1.79	0.64
42:GM:187:SER:HA	42:GM:190:THR:HG22	1.79	0.64
42:HC:274:PRO:HB2	42:HC:371:VAL:HG21	1.79	0.64
41:HD:323:MET:HG3	42:HE:224:TYR:CD2	2.31	0.64
42:HE:288:VAL:HG21	42:HE:327:ASP:HB3	1.78	0.64
41:IH:2:ARG:NH1	42:II:71:GLU:OE2	2.29	0.64
42:JC:192:HIS:CD2	42:JC:421:ALA:HA	2.32	0.64
42:NG:26:LEU:HD13	42:NG:364:PRO:HD2	1.79	0.64
42:OK:33:ASP:HA	42:OK:85:GLN:HB2	1.79	0.64
42:PA:5:ILE:HG13	42:PA:132:LEU:HD21	1.79	0.64
41:PH:86:ARG:HG2	41:PH:88:ASP:H	1.63	0.64
41:QF:196:THR:OG1	41:QF:264:HIS:NE2	2.29	0.64
41:QF:248:ALA:HA	41:QF:252:LYS:HD3	1.79	0.64
41:RF:202:ILE:HG23	41:RF:268:PRO:HG2	1.77	0.64
42:RG:321:GLY:HA3	42:RG:373:ARG:HA	1.79	0.64
42:RK:351:PHE:HA	41:RL:179:VAL:HG13	1.80	0.64
41:SF:3:GLU:HA	41:SF:49:VAL:HA	1.77	0.64
42:VC:91:GLN:HG3	42:VC:121:ARG:HH12	1.62	0.64
2:1D:204:LEU:HD23	26:4K:258:THR:HG23	1.79	0.64
42:AE:259:LEU:O	42:AE:380:ASN:ND2	2.30	0.64
41:AL:49:VAL:HG11	41:AL:241:ARG:HG2	1.80	0.64
42:BE:88:HIS:CE1	42:CE:280:LYS:HB2	2.32	0.64
42:CC:294:ALA:HA	42:CC:297:GLU:HG2	1.78	0.64
41:CD:246:LEU:HD13	45:CE:501:GTP:H8	1.62	0.64
42:DG:346:TRP:HB3	41:DH:391:ARG:HH11	1.61	0.64
41:GL:178:THR:HB	41:GL:181:GLU:HB3	1.79	0.64
41:ID:11:GLN:NE2	43:ID:501:GDP:O2A	2.29	0.64
42:JK:273:ALA:HB3	42:JK:274:PRO:HD3	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:JL:49:VAL:HG11	41:JL:241:ARG:HG2	1.78	0.64
41:LL:372:THR:HG21	41:LL:426:GLN:HB2	1.79	0.64
42:MK:2:ARG:NH1	42:MK:51:THR:OG1	2.29	0.64
42:NI:274:PRO:HB3	42:NI:291:ILE:HD11	1.76	0.64
42:OC:188:ILE:HG23	42:OC:425:MET:HG3	1.79	0.64
41:OL:286:VAL:HG21	41:OL:325:GLU:HG3	1.77	0.64
42:PG:25:CYS:HA	42:PG:30:ILE:HD13	1.79	0.64
41:PH:20:PHE:HA	41:PH:230:SER:HB3	1.80	0.64
42:QK:31:GLN:HB3	42:QK:36:MET:HA	1.78	0.64
42:RK:16:ILE:HD11	42:RK:231:ILE:HG21	1.80	0.64
42:TC:259:LEU:HD23	42:TC:260:VAL:H	1.62	0.64
41:TF:248:ALA:HA	41:TF:252:LYS:HG2	1.79	0.64
42:UI:2:ARG:NH2	41:UJ:69:GLU:OE1	2.31	0.64
42:UK:129:CYS:SG	42:UK:132:LEU:HB2	2.37	0.64
41:VD:282:ARG:NH2	41:VD:292:GLN:OE1	2.29	0.64
41:VD:395:LEU:HD23	41:VD:398:TYR:HD2	1.62	0.64
42:WK:314:ALA:HB3	42:WK:380:ASN:HD22	1.62	0.64
9:2D:508:THR:HG21	41:IL:217:LEU:HD11	1.80	0.64
26:4M:146:GLY:O	26:4M:150:LEU:N	2.28	0.64
31:5D:65:ARG:HH22	41:OB:57:GLY:HA3	1.63	0.64
31:5H:10:ARG:O	31:5H:14:GLN:NE2	2.30	0.64
33:5V:263:PHE:CE2	34:6A:308:ILE:HG21	2.33	0.64
33:5X:381:ALA:HA	33:5X:384:MET:HG3	1.77	0.64
35:6V:195:LYS:HA	35:6V:198:VAL:HG12	1.78	0.64
41:AB:25:SER:HG	41:AB:51:TYR:HH	1.44	0.64
41:CB:248:ALA:HA	41:CB:252:LYS:HE3	1.79	0.64
41:CD:130:LEU:HB3	41:CD:162:ARG:HH11	1.61	0.64
41:DF:9:ALA:HA	41:DF:66:VAL:HB	1.79	0.64
42:EE:7:VAL:HG13	42:EE:137:ILE:HG13	1.79	0.64
42:EK:188:ILE:HG21	42:EK:422:ARG:HH21	1.62	0.64
41:IN:209:ASP:HA	41:IN:212:PHE:HD2	1.62	0.64
41:JD:252:LYS:NZ	45:JE:501:GTP:O2A	2.30	0.64
41:JJ:324:LYS:HE2	42:JK:220:GLU:O	1.98	0.64
41:MJ:7:LEU:HG	41:MJ:135:LEU:HD13	1.79	0.64
42:NI:30:ILE:HG23	42:NI:36:MET:HE2	1.79	0.64
41:PH:149:THR:C	41:PH:151:LEU:H	2.01	0.64
41:PL:319:GLY:HA2	41:PL:357:PRO:HG3	1.80	0.64
41:QH:104:GLY:HA2	41:QH:108:GLU:HB2	1.80	0.64
42:RC:203:MET:HG3	42:RC:384:ILE:HD11	1.80	0.64
42:RK:65:ALA:O	42:RK:91:GLN:NE2	2.25	0.64
42:RK:247:ALA:O	41:RL:11:GLN:NE2	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:SG:53:PHE:HB3	42:SG:61:HIS:HB3	1.79	0.64
42:TK:104:ALA:HA	42:TK:108:TYR:HD2	1.60	0.64
42:UC:326:LYS:NZ	41:UD:219:THR:HA	2.12	0.64
41:UF:287:PRO:O	41:UF:291:GLN:NE2	2.30	0.64
41:WD:26:ASP:OD1	41:WD:359:ARG:NH1	2.31	0.64
9:2D:572:LEU:HD13	41:IN:215:LEU:HD11	1.78	0.64
10:2F:75:ARG:HH22	42:AC:307:PRO:HD2	1.61	0.64
13:2T:430:ASN:HA	41:GJ:276:ARG:HH22	1.61	0.64
16:3C:124:PHE:O	42:UI:123:ARG:NH2	2.31	0.64
19:3K:140:ASN:ND2	41:BH:219:THR:O	2.29	0.64
30:5A:273:TRP:HH2	42:LE:322:ASP:HA	1.61	0.64
32:5M:319:THR:HG22	32:5N:184:ILE:HG23	1.79	0.64
34:6L:120:LEU:HD13	34:6M:444:THR:HG21	1.80	0.64
35:6P:78:ARG:NH2	35:6Q:328:GLU:OE2	2.30	0.64
41:AB:117:LEU:HD21	41:AB:155:ILE:HG22	1.79	0.64
42:AE:79:ARG:NH2	42:AE:92:LEU:O	2.30	0.64
42:AI:273:ALA:HB3	42:AI:274:PRO:HD3	1.80	0.64
42:BG:273:ALA:HB3	42:BG:274:PRO:HD3	1.79	0.64
41:CL:26:ASP:OD2	41:CL:359:ARG:NH1	2.29	0.64
41:DH:227:HIS:O	41:DH:228:LEU:C	2.36	0.64
41:EH:209:ASP:OD2	41:EH:213:ARG:NH1	2.31	0.64
42:FE:204:VAL:HG13	42:FE:302:MET:HB3	1.78	0.64
41:FJ:245:GLN:HB3	42:FK:224:TYR:HD2	1.63	0.64
41:FL:252:LYS:HG2	41:FL:256:ASN:HD21	1.62	0.64
41:HF:60:VAL:HG21	41:HF:86:ARG:HH12	1.62	0.64
41:JH:200:TYR:HB3	41:JH:268:PRO:HG3	1.79	0.64
41:JL:5:VAL:HG23	41:JL:130:LEU:HD21	1.78	0.64
42:OC:168:GLU:HB3	42:OC:201:ALA:HA	1.80	0.64
41:OL:133:PHE:HD1	41:OL:155:ILE:HD12	1.62	0.64
42:PI:258:ASN:HD21	41:PJ:179:VAL:H	1.46	0.64
42:RI:56:THR:HA	42:SI:285:GLN:HG2	1.78	0.64
41:UL:372:THR:HG23	41:UL:422:TYR:HB3	1.79	0.64
15:3A:36:ARG:O	42:JI:293:ASN:ND2	2.31	0.64
20:3P:390:ARG:HG3	41:EJ:216:LYS:HD3	1.80	0.64
30:5A:70:ARG:NH1	41:ML:55:THR:O	2.31	0.64
34:6M:452:LYS:NZ	35:6W:40:GLY:HA2	2.13	0.64
41:BL:6:HIS:NE2	41:BL:8:GLN:OE1	2.21	0.64
41:CH:282:ARG:NH2	41:CH:288:GLU:OE1	2.29	0.64
42:CI:88:HIS:HB3	42:CI:91:GLN:HB3	1.80	0.64
41:DF:311:LEU:HD12	41:DF:312:THR:HG22	1.78	0.64
42:EG:88:HIS:NE2	42:FG:280:LYS:HD2	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:EH:46:ARG:NH2	42:EI:76:ASP:OD2	2.29	0.64
42:EI:264:ARG:NH2	42:EI:424:ASP:OD1	2.30	0.64
42:FE:16:ILE:HD13	42:FE:228:ASN:HA	1.80	0.64
41:FF:284:LEU:HD13	41:FF:362:LYS:HB2	1.79	0.64
42:GK:255:PHE:HZ	42:GK:318:LEU:HD11	1.63	0.64
41:HL:5:VAL:HG22	41:HL:62:ARG:HD3	1.80	0.64
42:IE:274:PRO:HB2	42:IE:371:VAL:HG11	1.80	0.64
41:IN:86:ARG:NE	42:JM:283:HIS:HB2	2.12	0.64
41:LF:298:ASN:HD22	41:LF:298:ASN:C	1.96	0.64
41:LJ:27:GLU:OE2	41:LJ:318:ARG:NH2	2.31	0.64
42:NC:320:ARG:HH11	42:NC:360:PRO:HA	1.61	0.64
42:NG:68:VAL:HG23	42:NG:114:LEU:HD11	1.78	0.64
41:OJ:102:ALA:HA	41:OJ:106:TYR:HD1	1.63	0.64
42:OK:350:GLY:HA2	41:OL:179:VAL:HA	1.79	0.64
41:PD:342:VAL:HG12	41:PD:345:ILE:HG22	1.79	0.64
42:PK:106:GLY:HA3	42:PK:148:GLY:HA3	1.79	0.64
42:PK:328:VAL:HG21	42:PK:355:ILE:HD11	1.80	0.64
41:RF:91:VAL:HG11	41:RF:116:VAL:HG13	1.79	0.64
41:RF:98:GLY:H	41:RF:143:THR:HG22	1.62	0.64
42:RK:158:SER:HA	42:RK:166:LYS:HE3	1.79	0.64
42:TI:102:ASN:O	42:TI:104:ALA:N	2.30	0.64
41:TL:178:THR:HB	41:TL:181:GLU:HB2	1.79	0.64
42:UC:258:ASN:HD21	41:UD:99:ASN:HD22	1.45	0.64
42:UI:204:VAL:HA	42:UI:303:VAL:HG22	1.78	0.64
42:UK:102:ASN:ND2	42:UK:411:GLU:OE2	2.30	0.64
42:VI:53:PHE:HB3	42:VI:61:HIS:HB3	1.79	0.64
41:WF:69:GLU:HG3	41:WF:96:GLY:HA2	1.78	0.64
4:1K:95:LEU:HB2	41:JD:356:ILE:HD12	1.80	0.64
34:6M:452:LYS:HZ3	35:6W:40:GLY:HA2	1.62	0.64
41:BJ:10:GLY:O	41:BJ:14:ASN:ND2	2.31	0.64
42:CG:42:ILE:HG12	42:CG:43:GLY:H	1.63	0.64
41:DH:68:LEU:O	41:DH:96:GLY:HA2	1.97	0.64
41:DH:207:LEU:HB3	41:DH:225:LEU:HD22	1.78	0.64
41:EF:251:ARG:HD3	42:EG:105:ARG:HH12	1.63	0.64
42:EM:273:ALA:HB3	42:EM:274:PRO:HD3	1.79	0.64
42:FC:68:VAL:HG23	42:FC:93:ILE:HB	1.80	0.64
41:FL:323:MET:HG2	42:FM:224:TYR:CE1	2.30	0.64
41:GH:317:PHE:HB2	41:GH:353:VAL:HG12	1.79	0.64
41:GJ:393:ALA:O	41:GJ:395:LEU:N	2.30	0.64
42:HC:63:PRO:HD3	42:HC:86:LEU:HG	1.79	0.64
41:KD:318:ARG:HD3	41:KD:357:PRO:HA	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:NL:187:LEU:HD11	41:NL:408:PHE:HE2	1.62	0.64
42:OA:79:ARG:O	42:OA:84:ARG:NH1	2.31	0.64
42:PC:254:GLU:HG2	41:PD:98:GLY:HA2	1.80	0.64
41:PJ:344:TRP:O	41:PJ:345:ILE:C	2.36	0.64
42:QC:315:CYS:HB3	42:QC:379:SER:HA	1.79	0.64
42:QG:137:ILE:HB	42:QG:168:GLU:HG3	1.79	0.64
42:RE:422:ARG:HD3	42:RE:423:GLU:H	1.62	0.64
42:RG:21:TRP:HZ3	42:RG:63:PRO:HB2	1.63	0.64
42:SC:213:CYS:HB3	42:SC:219:ILE:HB	1.80	0.64
41:SF:309:ARG:HH11	41:SF:342:VAL:HA	1.61	0.64
42:TC:319:TYR:HB2	42:TC:355:ILE:HA	1.79	0.64
41:UD:44:LEU:HD22	41:UD:47:ILE:HD13	1.79	0.64
41:VD:100:ASN:ND2	41:VD:397:TRP:O	2.29	0.64
42:VI:326:LYS:NZ	42:VI:327:ASP:OD1	2.31	0.64
42:WE:16:ILE:HA	42:WE:228:ASN:HB3	1.78	0.64
28:4W:37:ARG:HE	42:GM:29:GLY:HA3	1.63	0.64
33:5V:129:VAL:HG22	33:5W:12:PHE:HB2	1.80	0.64
34:6B:240:ALA:HA	34:6B:321:LEU:HD21	1.79	0.64
42:DM:209:ILE:HA	42:DM:212:ILE:HG22	1.79	0.64
42:EG:41:THR:OG1	42:EG:42:ILE:N	2.31	0.64
41:FL:156:ARG:NE	41:FL:195:ASN:HB2	2.13	0.64
41:GJ:344:TRP:HH2	41:GJ:425:TYR:HB3	1.62	0.64
42:HK:142:GLY:HA3	42:HK:183:GLU:HG3	1.79	0.64
42:IM:11:GLN:HG3	42:IM:74:VAL:HG11	1.80	0.64
42:JM:187:SER:HB2	42:JM:391:LEU:HD21	1.80	0.64
42:KC:28:HIS:HE1	42:KC:243:ARG:HD2	1.62	0.64
41:KF:260:PHE:HB2	41:KF:263:LEU:HD12	1.79	0.64
41:KL:77:ARG:HA	41:KL:82:GLY:HA3	1.79	0.64
41:ND:11:GLN:HA	41:ND:72:THR:HG21	1.80	0.64
42:NE:247:ALA:HB3	42:NE:355:ILE:HB	1.80	0.64
42:OC:311:LYS:HB3	42:OC:344:VAL:HB	1.80	0.64
42:PG:299:ALA:O	42:PG:301:GLN:N	2.30	0.64
41:PJ:86:ARG:HG2	41:PJ:89:ASN:H	1.63	0.64
42:QI:5:ILE:HG21	42:QI:125:LEU:HD13	1.79	0.64
41:RF:289:LEU:HB3	41:RF:365:ALA:HB2	1.78	0.64
41:RH:182:PRO:HB3	41:RH:384:GLN:HB3	1.79	0.64
41:UH:131:GLN:HE22	41:UH:240:LEU:HD13	1.63	0.64
42:VE:180:ALA:HB3	42:VE:183:GLU:HG3	1.79	0.64
7:1U:200:PRO:HG2	42:MK:43:GLY:HA2	1.80	0.64
12:2Q:206:GLN:NE2	42:WK:245:ASP:OD1	2.31	0.64
19:3K:137:VAL:HA	19:3K:145:GLN:HG3	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:3L:316:SER:OG	41:CL:276:ARG:NH1	2.31	0.64
33:5Q:17:TRP:HB2	33:5R:129:VAL:HG21	1.80	0.64
33:5T:162:LEU:HA	33:5T:165:LEU:HD12	1.79	0.64
34:6G:213:ASP:HA	34:6H:96:PRO:HG3	1.79	0.64
35:6P:127:GLU:OE1	35:6P:204:ASN:ND2	2.31	0.64
35:6Q:230:ARG:NH2	42:LG:38:SER:OG	2.31	0.64
37:7E:201:THR:HA	41:OH:337:ASN:HD21	1.62	0.64
42:CE:223:THR:HG22	42:CE:225:THR:H	1.63	0.64
42:CG:348:PRO:HB2	41:CH:384:GLN:HG2	1.81	0.64
42:DE:206:ASN:OD1	45:DE:501:GTP:O2'	2.16	0.64
41:DH:204:ASN:HA	41:DH:207:LEU:HD12	1.80	0.64
42:DK:216:ASN:HB3	42:DK:275:VAL:O	1.97	0.64
42:EK:269:LEU:HD12	42:EK:303:VAL:HG11	1.79	0.64
41:FD:293:MET:HB2	41:FD:367:PHE:CZ	2.33	0.64
41:HD:46:ARG:HH22	42:HE:72:PRO:HB2	1.63	0.64
42:HI:97:GLU:HG3	42:HI:110:ILE:HD12	1.79	0.64
42:IM:207:GLU:HA	42:IM:210:TYR:HB2	1.78	0.64
41:JD:316:VAL:HG12	41:JD:352:ALA:HB3	1.80	0.64
42:JE:71:GLU:HB2	42:JE:98:ASP:HB3	1.79	0.64
41:JH:211:CYS:HA	41:JH:215:LEU:HB2	1.80	0.64
41:JH:314:ALA:HB3	41:JH:368:ILE:HB	1.78	0.64
41:MH:247:ASN:ND2	42:MI:71:GLU:OE2	2.31	0.64
41:OF:325:GLU:HB3	42:OG:221:ARG:HG2	1.78	0.64
41:QJ:347:ASN:HD22	42:QK:178:SER:HB3	1.61	0.64
42:SC:9:VAL:HG22	42:SC:68:VAL:HB	1.79	0.64
42:SG:248:LEU:HB2	42:SG:355:ILE:H	1.63	0.64
41:UJ:237:THR:HG22	41:UJ:250:LEU:HD21	1.79	0.64
24:4F:102:ARG:HH22	41:HD:33:THR:CB	2.12	0.63
41:DH:391:ARG:O	41:DH:392:LYS:C	2.36	0.63
41:GF:316:VAL:HG12	41:GF:352:ALA:HB3	1.80	0.63
41:HF:251:ARG:HG3	42:HG:100:ALA:HB2	1.80	0.63
42:KI:3:GLU:HA	42:KI:51:THR:HA	1.79	0.63
42:KM:71:GLU:HG3	42:KM:98:ASP:HB3	1.80	0.63
41:LF:302:ALA:HB3	41:LF:380:ARG:HH22	1.62	0.63
41:NB:248:ALA:HA	41:NB:252:LYS:HD3	1.78	0.63
42:NI:65:ALA:HB3	42:NI:91:GLN:NE2	2.13	0.63
42:OE:253:THR:O	42:OE:256:GLN:NE2	2.31	0.63
41:OH:385:PHE:HZ	41:OH:408:PHE:HB3	1.62	0.63
42:PA:317:LEU:HB2	42:PA:353:VAL:HG12	1.80	0.63
41:PB:4:ILE:H	41:PB:62:ARG:HH22	1.44	0.63
42:PC:273:ALA:H	42:PC:274:PRO:HD2	1.61	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:QL:103:LYS:HA	41:QL:107:THR:HB	1.80	0.63
42:RC:209:ILE:HD12	42:RC:227:LEU:HB3	1.80	0.63
42:TK:105:ARG:HG2	42:TK:411:GLU:HG2	1.80	0.63
42:UE:437:MET:SD	41:UF:391:ARG:NH2	2.70	0.63
42:UI:16:ILE:HD11	42:UI:138:PHE:HB3	1.80	0.63
19:3J:255:MET:HG3	41:CD:56:GLY:HA2	1.78	0.63
20:3P:451:VAL:HG13	20:3P:466:PHE:HB3	1.79	0.63
26:4L:194:GLU:HB2	26:4L:198:SER:HB3	1.79	0.63
41:BD:101:TRP:HD1	41:BD:145:SER:HB3	1.61	0.63
42:CC:213:CYS:HA	42:CC:217:LEU:HD12	1.80	0.63
41:CD:10:GLY:HA2	41:CD:143:THR:HB	1.80	0.63
42:CM:207:GLU:HG2	42:CM:304:LYS:HE3	1.79	0.63
41:DJ:271:ALA:HB3	41:DJ:272:PRO:HD3	1.81	0.63
41:EJ:372:THR:HA	41:EJ:374:ILE:HG22	1.78	0.63
42:FE:141:PHE:HB2	42:FE:173:PRO:HD3	1.80	0.63
42:HC:436:GLY:O	42:HC:437:MET:C	2.35	0.63
41:JF:252:LYS:NZ	45:JG:501:GTP:O3G	2.30	0.63
42:JG:64:ARG:NH1	42:JG:129:CYS:SG	2.72	0.63
42:KG:168:GLU:HB3	42:KG:201:ALA:HA	1.81	0.63
41:KN:375:GLN:HB2	41:KN:419:VAL:HG13	1.80	0.63
42:NE:1:MET:SD	42:NE:2:ARG:NH1	2.71	0.63
42:NG:89:PRO:HD2	42:OG:283:HIS:CD2	2.33	0.63
41:OD:213:ARG:HD2	41:OD:297:LYS:HE2	1.80	0.63
42:OE:76:ASP:HA	42:OE:79:ARG:HB2	1.80	0.63
42:OE:324:VAL:HG21	41:OF:219:THR:HB	1.80	0.63
42:OG:258:ASN:HD21	41:OH:99:ASN:HD21	1.43	0.63
42:PK:63:PRO:HG3	42:PK:87:PHE:HA	1.79	0.63
41:QD:229:VAL:HA	41:QD:300:MET:HE1	1.80	0.63
41:QH:418:LEU:HA	41:QH:421:GLU:HB3	1.80	0.63
42:QI:171:ILE:HG21	45:QI:501:GTP:H1'	1.80	0.63
42:RC:31:GLN:HG3	42:RC:33:ASP:H	1.63	0.63
42:RC:309:HIS:NE2	42:RC:386:GLU:OE2	2.30	0.63
42:RE:56:THR:HG22	42:RE:58:ALA:H	1.62	0.63
42:SE:261:PRO:HB3	42:SE:346:TRP:HH2	1.62	0.63
42:TG:180:ALA:HB3	42:TG:183:GLU:HB2	1.79	0.63
41:TH:207:LEU:HB3	41:TH:225:LEU:HD22	1.80	0.63
42:TK:172:TYR:HB3	42:TK:205:ASP:HB3	1.79	0.63
41:TL:257:MET:HB3	41:TL:266:PHE:HE2	1.63	0.63
42:UM:316:CYS:HB2	42:UM:378:LEU:HB3	1.79	0.63
42:VE:298:PRO:HB3	42:VE:307:PRO:HD2	1.80	0.63
42:WE:274:PRO:HB2	42:WE:371:VAL:HG11	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:2D:491:LEU:HD12	42:IK:372:GLN:HE21	1.61	0.63
20:3O:420:LEU:HB3	20:3O:442:TYR:HB3	1.80	0.63
20:3O:422:PHE:HB2	20:3O:440:ILE:HB	1.79	0.63
28:4W:68:PRO:HB3	42:GM:364:PRO:HG3	1.81	0.63
32:5O:85:VAL:HG22	32:5O:168:LYS:HD3	1.79	0.63
33:5R:60:ASN:ND2	33:5S:341:GLU:OE1	2.32	0.63
36:6Z:51:VAL:HB	36:6Z:82:LYS:HZ2	1.61	0.63
41:BL:10:GLY:O	41:BL:14:ASN:ND2	2.30	0.63
41:CF:42:LEU:HD22	41:CF:356:ILE:HG13	1.81	0.63
41:CF:200:TYR:HE1	41:CF:368:ILE:HG23	1.64	0.63
41:DF:372:THR:HG21	41:DF:426:GLN:HB2	1.80	0.63
41:DJ:411:ALA:HA	41:DJ:414:ASN:HD21	1.63	0.63
41:DL:263:LEU:HD23	41:DL:265:PHE:H	1.62	0.63
41:ED:171:PRO:HB3	41:ED:181:GLU:HG2	1.79	0.63
42:EE:213:CYS:HB3	42:EE:219:ILE:HD12	1.80	0.63
41:FD:113:VAL:HA	41:FD:116:VAL:HG12	1.80	0.63
41:FJ:324:LYS:HG2	42:FK:222:PRO:HG2	1.80	0.63
42:FK:326:LYS:HG2	41:FL:220:PRO:HD2	1.79	0.63
41:GF:161:ASP:OD1	41:GF:162:ARG:NH1	2.31	0.63
41:GF:226:ASN:HD21	43:GF:501:GDP:HN1	1.45	0.63
42:GK:118:VAL:HG11	42:GK:149:PHE:HZ	1.63	0.63
42:HC:88:HIS:CD2	42:HC:90:GLU:HB2	2.33	0.63
41:IH:282:ARG:NH2	41:IH:292:GLN:OE1	2.31	0.63
41:JJ:296:ALA:HA	41:JJ:299:MET:HG2	1.80	0.63
41:KF:324:LYS:HD3	42:KG:222:PRO:HD2	1.80	0.63
41:MD:159:TYR:HB3	41:MD:162:ARG:HG3	1.80	0.63
41:ND:159:TYR:HB3	41:ND:162:ARG:HG3	1.81	0.63
41:OB:380:ARG:HD3	41:OB:381:ILE:HD13	1.81	0.63
41:PF:7:LEU:HB2	41:PF:135:LEU:HG	1.80	0.63
41:PH:235:GLY:O	41:PH:237:THR:N	2.32	0.63
41:PL:86:ARG:HB3	41:PL:89:ASN:HB2	1.79	0.63
41:QF:222:TYR:HA	41:QF:225:LEU:HD12	1.80	0.63
41:RF:320:ARG:N	41:RF:355:ASP:HA	2.13	0.63
42:SC:49:PHE:HB2	42:SC:53:PHE:HB2	1.80	0.63
42:SC:88:HIS:HD2	42:SC:91:GLN:HE21	1.46	0.63
41:SD:191:GLN:OE1	41:SD:195:ASN:ND2	2.30	0.63
42:SM:246:GLY:HA3	42:SM:356:ASN:HA	1.80	0.63
41:TD:68:LEU:HD22	41:TD:97:ALA:HB2	1.80	0.63
42:TE:76:ASP:OD1	42:TE:79:ARG:NH1	2.31	0.63
42:TG:263:PRO:HB3	41:TH:396:HIS:CE1	2.33	0.63
41:UF:171:PRO:HG2	41:UF:185:ALA:HB2	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:VE:1:MET:SD	41:VF:94:GLN:NE2	2.69	0.63
21:3T:129:VAL:HG11	42:LG:114:LEU:HD12	1.79	0.63
35:6P:106:ARG:NH1	35:6Q:371:ASP:OD2	2.31	0.63
42:AC:274:PRO:HG2	42:AC:374:ALA:HA	1.80	0.63
42:CC:259:LEU:HD21	42:CC:316:CYS:HB3	1.81	0.63
42:CG:229:ARG:HD2	42:CG:363:VAL:HG11	1.79	0.63
41:DD:311:LEU:HB2	41:DD:370:ASN:ND2	2.11	0.63
42:EK:51:THR:HG21	42:EK:243:ARG:HB3	1.81	0.63
42:EK:136:LEU:HG	42:EK:169:PHE:HE2	1.64	0.63
42:EM:188:ILE:HG21	42:EM:395:PHE:CG	2.34	0.63
42:JC:56:THR:HG23	42:JC:58:ALA:H	1.63	0.63
41:KL:216:LYS:NZ	41:LL:88:ASP:OD1	2.31	0.63
42:MG:264:ARG:HD3	42:MG:428:LEU:HA	1.80	0.63
41:MH:204:ASN:ND2	43:MH:501:GDP:O2'	2.31	0.63
42:NI:319:TYR:HB3	42:NI:323:VAL:HG11	1.80	0.63
41:OD:248:ALA:HA	41:OD:252:LYS:HD2	1.78	0.63
41:OF:248:ALA:HA	41:OF:252:LYS:HD2	1.79	0.63
41:OF:292:GLN:O	41:OF:298:ASN:ND2	2.30	0.63
42:OK:209:ILE:HG12	42:OK:227:LEU:HD22	1.79	0.63
41:OL:287:PRO:HA	41:OL:329:GLN:HE22	1.61	0.63
42:PA:121:ARG:HA	42:PA:124:LYS:HD2	1.81	0.63
42:PA:258:ASN:HD21	41:PB:178:THR:HG23	1.62	0.63
41:PJ:1:MET:O	41:PJ:3:GLU:N	2.31	0.63
41:PL:271:ALA:HB3	41:PL:272:PRO:HD3	1.78	0.63
42:QC:5:ILE:HD12	42:QC:125:LEU:HD13	1.80	0.63
41:QJ:5:VAL:HG22	41:QJ:62:ARG:HD2	1.80	0.63
42:QK:132:LEU:HG	42:QK:134:GLY:H	1.62	0.63
41:TF:314:ALA:HB3	41:TF:368:ILE:HB	1.80	0.63
41:VD:89:ASN:ND2	41:VD:123:GLU:OE2	2.31	0.63
41:VH:354:CYS:SG	41:VH:355:ASP:N	2.69	0.63
19:3L:85:PHE:CE2	42:AK:282:TYR:HB3	2.33	0.63
20:3O:124:LEU:HD12	20:3O:125:PRO:HD2	1.79	0.63
20:3P:387:ASP:HA	20:3P:390:ARG:HE	1.63	0.63
20:3P:457:ARG:NH1	41:FJ:219:THR:OG1	2.31	0.63
22:4C:87:SER:HB2	42:AG:84:ARG:HH21	1.64	0.63
32:5L:289:ILE:HG23	34:6A:483:THR:HG21	1.80	0.63
33:5T:154:LYS:HG3	33:5T:246:THR:HG21	1.79	0.63
41:AD:309:ARG:H	41:AD:372:THR:HB	1.63	0.63
41:CF:252:LYS:HG3	42:CG:100:ALA:HA	1.80	0.63
42:DG:9:VAL:HB	42:DG:139:HIS:HB3	1.80	0.63
42:DG:184:PRO:HG3	42:DG:394:LYS:HB3	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:EG:11:GLN:HA	42:EG:74:VAL:HG11	1.79	0.63
42:EI:323:VAL:HG23	42:EI:355:ILE:HG23	1.80	0.63
41:EL:60:VAL:HG11	41:EL:86:ARG:HE	1.64	0.63
42:EM:274:PRO:CG	42:EM:374:ALA:HA	2.18	0.63
42:FE:362:VAL:HG21	42:FE:370:LYS:HA	1.80	0.63
42:FI:229:ARG:HD2	42:FI:363:VAL:HG11	1.79	0.63
41:GH:316:VAL:HG12	41:GH:352:ALA:HB3	1.80	0.63
41:GL:17:GLY:HA2	41:GL:20:PHE:HB3	1.81	0.63
42:HG:284:GLU:HB2	42:HG:286:LEU:HD12	1.80	0.63
42:HG:341:ILE:O	42:HG:342:GLN:HB2	1.98	0.63
42:HI:88:HIS:HD2	42:HI:89:PRO:HD2	1.64	0.63
41:IH:65:LEU:HD11	41:IH:76:VAL:HG11	1.80	0.63
42:IM:213:CYS:HA	42:IM:217:LEU:HB2	1.79	0.63
41:KL:48:ASN:O	41:KL:62:ARG:NH2	2.31	0.63
42:ME:278:ALA:HA	42:ME:369:ALA:HB2	1.78	0.63
42:MG:253:THR:HA	42:MG:256:GLN:HE21	1.64	0.63
42:OA:184:PRO:HB3	42:OA:394:LYS:HG3	1.81	0.63
42:PC:219:ILE:HB	42:PC:222:PRO:HG2	1.80	0.63
41:QH:358:PRO:HB2	41:QH:361:LEU:HB2	1.80	0.63
42:QK:107:HIS:HA	42:QK:152:LEU:HD12	1.79	0.63
42:RC:269:LEU:HD22	42:RC:303:VAL:HG11	1.81	0.63
42:RE:275:VAL:HA	42:RE:368:LEU:HD11	1.81	0.63
41:RJ:309:ARG:HH22	41:RJ:340:TYR:HA	1.64	0.63
41:RJ:355:ASP:O	41:RJ:356:ILE:C	2.37	0.63
42:SI:295:CYS:HB2	42:SI:377:MET:HB2	1.80	0.63
41:TD:54:ALA:HB3	41:TD:58:LYS:HB3	1.80	0.63
42:UC:122:ILE:HD12	42:UC:157:LEU:HD11	1.81	0.63
41:VD:375:GLN:HB2	41:VD:419:VAL:HG13	1.80	0.63
41:VL:267:MET:HG3	41:VL:301:ALA:HB3	1.81	0.63
41:WF:100:ASN:HB3	41:WF:103:LYS:HG2	1.80	0.63
41:WN:207:LEU:HB3	41:WN:225:LEU:HD22	1.80	0.63
14:2Y:125:ARG:NH2	42:MM:400:ALA:O	2.32	0.63
16:3C:22:ILE:HG12	42:VE:298:PRO:HD3	1.80	0.63
20:3Q:623:ARG:HG3	20:3Q:624:LEU:HD12	1.80	0.63
31:5H:10:ARG:HG2	31:5H:14:GLN:HE22	1.62	0.63
41:AH:173:PRO:HA	41:AH:380:ARG:HD3	1.81	0.63
41:CH:86:ARG:HG3	41:DH:281:TYR:CE1	2.34	0.63
42:CM:2:ARG:HB3	42:CM:242:LEU:HD23	1.79	0.63
42:EK:204:VAL:HG22	42:EK:303:VAL:HA	1.80	0.63
41:FH:50:TYR:HE1	41:FH:134:GLN:HE22	1.44	0.63
41:FL:55:THR:HG23	41:GL:283:ALA:HA	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:FM:102:ASN:HB2	42:FM:408:TYR:CE1	2.32	0.63
42:GI:240:ALA:HA	42:GI:243:ARG:HB2	1.81	0.63
42:HE:296:PHE:HB3	42:HE:341:ILE:HG13	1.80	0.63
41:JH:278:SER:HB2	41:JH:281:TYR:HB2	1.81	0.63
42:KG:274:PRO:HG3	42:KG:374:ALA:HA	1.80	0.63
41:MN:421:GLU:HA	41:MN:424:GLN:HG2	1.80	0.63
42:NE:174:ALA:HB1	42:NE:207:GLU:HB2	1.80	0.63
42:NI:328:VAL:HG21	42:NI:353:VAL:HG11	1.80	0.63
42:OC:139:HIS:ND1	42:OC:140:SER:O	2.32	0.63
41:OD:245:GLN:HA	42:OE:15:GLN:HE22	1.64	0.63
41:RF:378:PHE:HD1	41:RF:419:VAL:HG22	1.63	0.63
41:SJ:54:ALA:HB3	41:SJ:58:LYS:HB3	1.81	0.63
41:TD:259:PRO:HG2	41:TD:263:LEU:HD23	1.81	0.63
42:UM:30:ILE:HG12	42:UM:36:MET:HG2	1.80	0.63
41:VF:236:VAL:HG22	41:VF:368:ILE:HD11	1.79	0.63
42:VI:55:GLU:HG3	42:VI:61:HIS:CE1	2.33	0.63
42:WE:88:HIS:HB3	42:WE:91:GLN:HB3	1.80	0.63
41:WF:358:PRO:HD2	41:WF:364:SER:HB3	1.81	0.63
13:2T:401:VAL:HG11	42:GK:370:LYS:HG2	1.79	0.63
19:3K:35:ASN:HD21	42:KG:326:LYS:HG3	1.64	0.63
39:7K:45:TYR:CE2	39:7K:93:PRO:HD2	2.34	0.63
42:CM:106:GLY:HA3	42:CM:148:GLY:HA3	1.80	0.63
41:DB:103:LYS:HA	41:DB:107:THR:HB	1.81	0.63
42:EG:195:LEU:HD11	42:EG:428:LEU:HD13	1.81	0.63
42:FG:126:ALA:HA	42:FG:129:CYS:HB2	1.80	0.63
42:HG:89:PRO:HD3	42:IG:283:HIS:CE1	2.33	0.63
41:HJ:1:MET:HE1	41:HJ:46:ARG:HH11	1.63	0.63
41:ID:46:ARG:HB2	41:ID:241:ARG:HA	1.80	0.63
41:IF:50:TYR:HE1	41:IF:134:GLN:HE22	1.47	0.63
41:JF:54:ALA:HB3	41:JF:58:LYS:HB3	1.81	0.63
42:JM:151:SER:HB3	42:JM:193:THR:HG21	1.80	0.63
41:LL:347:ASN:ND2	42:LM:178:SER:OG	2.30	0.63
41:MD:68:LEU:HB3	41:MD:96:GLY:HA2	1.78	0.63
41:MD:272:PRO:HB2	41:MD:361:LEU:HD22	1.81	0.63
41:MF:290:THR:HG21	41:MF:329:GLN:HB3	1.79	0.63
41:MN:240:LEU:HD21	41:MN:250:LEU:H	1.64	0.63
41:NB:392:LYS:HD2	41:NB:395:LEU:HD13	1.81	0.63
41:OH:116:VAL:HG11	41:OH:151:LEU:HD21	1.81	0.63
42:PA:350:GLY:HA2	41:PB:179:VAL:HG22	1.81	0.63
42:PG:252:LEU:O	42:PG:255:PHE:HB2	1.99	0.63
41:QD:42:LEU:HD12	41:QD:43:GLN:HG3	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:QE:350:GLY:H	41:QF:176:SER:HB3	1.63	0.63
42:TC:214:ARG:NH1	42:TC:214:ARG:O	2.32	0.63
41:TD:314:ALA:HB3	41:TD:368:ILE:HB	1.80	0.63
41:TD:375:GLN:HA	41:TD:378:PHE:HB2	1.80	0.63
42:TE:101:ASN:ND2	45:TE:501:GTP:O2A	2.32	0.63
41:TF:33:THR:O	41:TF:58:LYS:NZ	2.31	0.63
41:TJ:202:ILE:HD13	41:TJ:229:VAL:HG21	1.78	0.63
42:UM:313:MET:HG2	42:UM:344:VAL:HG21	1.81	0.63
42:VC:195:LEU:HA	42:VC:266:HIS:HE1	1.64	0.63
42:VK:172:TYR:HE2	42:VK:390:ARG:HH21	1.45	0.63
9:2D:512:LEU:H	41:IL:279:GLN:HE21	1.44	0.63
27:4P:60:GLY:O	27:4P:65:ARG:NH2	2.30	0.63
33:5X:111:ASP:O	35:6V:414:LYS:NZ	2.32	0.63
42:CG:269:LEU:HD11	42:CG:384:ILE:HB	1.80	0.63
42:CI:27:GLU:HG3	42:CI:320:ARG:HH22	1.64	0.63
41:CJ:74:ASP:HA	41:CJ:77:ARG:HD3	1.80	0.63
42:CK:11:GLN:HG3	42:CK:74:VAL:HG21	1.81	0.63
41:CL:107:THR:HG22	41:CL:108:GLU:H	1.62	0.63
42:DE:381:THR:HG22	42:DE:383:ALA:H	1.63	0.63
41:DF:135:LEU:HD22	41:DF:152:ILE:HD11	1.81	0.63
42:DK:115:ILE:HG12	42:DK:152:LEU:HG	1.81	0.63
41:EH:15:GLN:HG3	43:EH:501:GDP:C6	2.32	0.63
42:EM:31:GLN:HG3	42:EM:37:PRO:HG3	1.81	0.63
42:FK:161:TYR:HB3	42:FK:163:LYS:HZ1	0.57	0.63
42:HK:9:VAL:HG13	42:HK:139:HIS:HB3	1.79	0.63
42:JE:27:GLU:OE1	42:JE:243:ARG:NH2	2.32	0.63
41:KD:239:CYS:HB3	41:KD:248:ALA:H	1.63	0.63
42:KK:70:LEU:HD11	42:KK:110:ILE:HG22	1.81	0.63
42:MM:218:ASP:H	42:MM:277:SER:HB2	1.63	0.63
41:MN:312:THR:HA	41:MN:348:ASN:HB3	1.79	0.63
41:NB:324:LYS:HD3	42:NC:222:PRO:CD	2.27	0.63
42:NI:212:ILE:HD13	42:NI:215:ARG:HH21	1.64	0.63
41:OH:142:GLY:N	43:OH:501:GDP:O1B	2.31	0.63
42:PG:32:PRO:HB3	42:PG:83:TYR:HE1	1.64	0.63
41:QB:236:VAL:HG22	41:QB:368:ILE:HD11	1.79	0.63
41:QB:268:PRO:HD2	41:QB:300:MET:HB2	1.81	0.63
42:QE:286:LEU:O	42:QE:373:ARG:NH2	2.32	0.63
42:TG:316:CYS:HA	42:TG:352:LYS:HB3	1.80	0.63
41:WN:107:THR:HG22	41:WN:108:GLU:H	1.63	0.63
24:4G:403:LEU:HB3	24:4G:407:ARG:HH12	1.62	0.63
35:6V:400:GLN:O	35:6V:404:ASN:ND2	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:AC:200:CYS:HA	42:AC:266:HIS:HB2	1.81	0.63
41:CH:87:PRO:HA	41:CH:90:PHE:HD2	1.64	0.63
42:DE:274:PRO:HG3	42:DE:374:ALA:HA	1.80	0.63
41:DH:149:THR:HA	41:DH:152:ILE:HD12	1.80	0.63
41:DH:254:ALA:O	41:DH:257:MET:N	2.31	0.63
41:DJ:216:LYS:HG3	41:DJ:275:SER:HB2	1.81	0.63
41:DL:8:GLN:HB2	41:DL:65:LEU:HA	1.80	0.63
41:DL:30:ILE:HD11	41:DL:47:ILE:HD11	1.80	0.63
41:ED:30:ILE:HG23	41:ED:34:GLY:HA2	1.79	0.63
41:HL:156:ARG:NH2	41:HL:197:ASP:OD2	2.31	0.63
41:MF:207:LEU:HB3	41:MF:225:LEU:HD22	1.80	0.63
42:MM:226:ASN:ND2	42:MM:367:ASP:OD2	2.31	0.63
41:ND:180:VAL:HG13	41:ND:184:ASN:HD21	1.64	0.63
41:NL:8:GLN:HE21	41:NL:17:GLY:HA3	1.64	0.63
41:PB:170:VAL:HG21	41:PB:377:LEU:HG	1.80	0.63
42:PI:106:GLY:HA3	42:PI:148:GLY:HA3	1.80	0.63
41:RH:247:ASN:ND2	42:RI:73:THR:OG1	2.31	0.63
41:RJ:392:LYS:HA	41:RJ:395:LEU:HD23	1.81	0.63
42:SM:16:ILE:HD11	42:SM:231:ILE:HB	1.81	0.63
42:TE:63:PRO:HG2	42:TE:91:GLN:HE22	1.64	0.63
42:TI:102:ASN:O	42:TI:103:TYR:C	2.37	0.63
41:VH:200:TYR:HE1	41:VH:368:ILE:HD13	1.64	0.63
42:VI:2:ARG:HH21	42:VI:243:ARG:HA	1.63	0.63
42:VK:317:LEU:HD23	42:VK:377:MET:HE1	1.80	0.63
41:WJ:393:ALA:O	41:WJ:395:LEU:N	2.32	0.63
20:3P:516:LEU:HD23	20:3P:590:ARG:HD2	1.80	0.62
22:3X:103:PHE:CE1	42:BC:219:ILE:HG12	2.34	0.62
25:4I:123:LEU:HA	25:4I:161:MET:HA	1.81	0.62
30:5A:113:SER:HA	30:5A:118:LEU:HD13	1.80	0.62
34:6D:350:ARG:HA	34:6D:353:GLU:HB2	1.81	0.62
34:6L:266:ARG:HH22	35:6W:10:LYS:HE2	1.62	0.62
37:7C:219:GLY:HA2	42:SG:123:ARG:HH12	1.64	0.62
41:AH:11:GLN:HA	41:AH:72:THR:HG21	1.80	0.62
41:CD:87:PRO:HD3	41:DD:281:TYR:HD2	1.64	0.62
41:CL:65:LEU:HD22	41:CL:90:PHE:HE1	1.64	0.62
41:CL:203:ASP:OD2	41:CL:204:ASN:N	2.33	0.62
41:DB:239:CYS:HB2	41:DB:247:ASN:HD22	1.64	0.62
41:DF:170:VAL:HG11	41:DF:377:LEU:HD21	1.81	0.62
41:DH:392:LYS:HA	41:DH:395:LEU:HD23	1.81	0.62
42:DM:55:GLU:HG3	42:DM:57:GLY:H	1.63	0.62
42:EE:142:GLY:HA3	42:EE:183:GLU:HG3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:EG:183:GLU:HB3	42:EG:184:PRO:HD3	1.80	0.62
42:FG:16:ILE:HA	42:FG:228:ASN:HB3	1.80	0.62
42:II:47:ASP:OD1	42:II:50:ASN:ND2	2.32	0.62
41:IJ:55:THR:H	42:JI:285:GLN:HB2	1.63	0.62
41:JD:323:MET:HE2	41:JD:353:VAL:HG21	1.80	0.62
41:KD:383:GLU:HA	41:KD:386:THR:HG22	1.81	0.62
41:KJ:372:THR:HG21	41:KJ:426:GLN:HB2	1.81	0.62
41:LJ:316:VAL:HG12	41:LJ:352:ALA:HB3	1.80	0.62
42:MC:27:GLU:OE1	42:MC:243:ARG:NH1	2.26	0.62
41:MF:11:GLN:HA	41:MF:72:THR:HG21	1.80	0.62
42:NK:209:ILE:HG23	42:NK:230:LEU:HD11	1.81	0.62
42:OA:287:SER:H	42:OA:290:GLU:HB3	1.63	0.62
41:PH:80:PRO:O	41:PH:81:PHE:C	2.37	0.62
41:PH:327:ASP:O	41:PH:328:GLU:C	2.38	0.62
42:QE:202:PHE:HA	42:QE:268:PRO:HD2	1.81	0.62
42:SG:28:HIS:HA	42:SG:244:PHE:HZ	1.63	0.62
41:SL:32:PRO:HB3	41:SL:83:GLN:HE21	1.64	0.62
42:SM:27:GLU:OE1	42:SM:358:GLN:NE2	2.33	0.62
41:TF:314:ALA:HA	41:TF:350:LYS:HB3	1.80	0.62
42:UE:173:PRO:HB3	42:UE:183:GLU:HG2	1.81	0.62
42:VM:236:SER:O	42:VM:320:ARG:NH1	2.32	0.62
41:WF:268:PRO:HG2	41:WF:300:MET:HB2	1.81	0.62
9:2D:575:ARG:HH21	41:IN:360:GLY:C	2.02	0.62
33:5V:118:THR:HG21	35:6T:413:GLU:HG2	1.81	0.62
34:6A:160:ILE:HB	34:6A:258:LEU:HD13	1.81	0.62
34:6M:259:SER:HA	34:6M:262:GLN:HB2	1.81	0.62
37:7F:86:ALA:HA	41:OB:336:LYS:HD2	1.80	0.62
42:BC:50:ASN:O	42:BC:64:ARG:NH1	2.32	0.62
42:BI:347:CYS:SG	42:BI:347:CYS:O	2.57	0.62
42:CI:435:VAL:HA	41:CJ:391:ARG:HH12	1.63	0.62
41:CJ:67:ASP:HA	41:CJ:143:THR:HG21	1.81	0.62
42:DC:207:GLU:HA	42:DC:210:TYR:HB2	1.81	0.62
42:EE:324:VAL:HG22	42:EE:327:ASP:H	1.63	0.62
42:EG:137:ILE:HG12	42:EG:154:MET:HE1	1.81	0.62
42:EK:199:ASP:HB3	42:EK:256:GLN:HE22	1.64	0.62
41:FF:303:CYS:HB3	41:FF:377:LEU:HB2	1.80	0.62
41:FF:312:THR:HA	41:FF:348:ASN:HB2	1.80	0.62
42:GC:200:CYS:HA	42:GC:266:HIS:HB2	1.81	0.62
42:GE:185:TYR:HE2	42:GE:404:PHE:HB2	1.64	0.62
41:GJ:226:ASN:HA	41:GJ:229:VAL:HG12	1.80	0.62
41:HB:141:GLY:O	41:HB:184:ASN:ND2	2.31	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:HE:98:ASP:O	42:HE:105:ARG:NH1	2.32	0.62
41:HH:139:LEU:HB2	41:HH:171:PRO:HD3	1.81	0.62
42:JI:151:SER:HA	42:JI:193:THR:HG21	1.81	0.62
42:MG:16:ILE:HA	42:MG:228:ASN:HD21	1.64	0.62
42:MM:34:GLY:HA2	42:MM:86:LEU:HD13	1.80	0.62
41:NB:70:PRO:HD3	41:NB:94:GLN:HA	1.80	0.62
42:OI:254:GLU:HB3	41:OJ:98:GLY:HA2	1.82	0.62
41:OL:269:GLY:HA3	41:OL:367:PHE:HB3	1.80	0.62
41:PJ:197:ASP:O	41:PJ:264:HIS:HB2	1.99	0.62
42:RE:11:GLN:HG3	42:RE:74:VAL:HG21	1.81	0.62
42:RI:362:VAL:HA	42:RI:368:LEU:HD22	1.81	0.62
41:SH:4:ILE:HB	41:SH:50:TYR:HE1	1.63	0.62
42:VC:143:GLY:O	42:VC:186:ASN:ND2	2.32	0.62
41:WH:271:ALA:HB3	41:WH:272:PRO:HD3	1.81	0.62
42:WM:71:GLU:HB3	42:WM:98:ASP:HB3	1.79	0.62
20:3N:108:ASN:ND2	41:BB:219:THR:O	2.32	0.62
21:3V:236:GLU:HA	21:3V:239:GLN:HB3	1.81	0.62
33:5X:43:ARG:NH1	34:6B:126:ARG:O	2.32	0.62
35:6Q:259:LYS:HA	35:6Q:262:GLN:HB2	1.82	0.62
35:6V:356:ARG:HH11	35:6V:377:LEU:HD21	1.64	0.62
42:AK:138:PHE:HZ	42:AK:235:VAL:HG21	1.63	0.62
42:CM:138:PHE:HZ	42:CM:235:VAL:HG21	1.65	0.62
41:DB:198:GLU:HB2	41:DB:266:PHE:HE2	1.62	0.62
41:DF:207:LEU:HB3	41:DF:225:LEU:HD22	1.81	0.62
42:DI:103:TYR:HB3	42:DI:408:TYR:HE2	1.64	0.62
41:DJ:57:GLY:O	41:EJ:280:GLN:HG3	1.98	0.62
41:DL:68:LEU:HD13	41:DL:97:ALA:HB3	1.82	0.62
41:ED:305:PRO:HA	41:ED:373:ALA:HB3	1.81	0.62
41:EH:101:TRP:HE1	41:EH:188:SER:HG	1.42	0.62
42:FI:107:HIS:HA	42:FI:152:LEU:HD23	1.82	0.62
42:HE:195:LEU:HA	42:HE:266:HIS:HE1	1.65	0.62
41:HF:8:GLN:NE2	41:HF:13:GLY:O	2.29	0.62
41:LD:260:PHE:HB2	41:LD:263:LEU:HD13	1.80	0.62
41:ML:24:ILE:HG21	41:ML:50:TYR:HD2	1.64	0.62
42:MM:250:VAL:HG22	42:MM:352:LYS:HE3	1.81	0.62
41:OB:323:MET:HG3	41:OB:353:VAL:HG21	1.79	0.62
42:OC:3:GLU:OE2	42:OC:64:ARG:HG2	1.98	0.62
42:OG:100:ALA:O	42:OG:102:ASN:N	2.32	0.62
41:OH:252:LYS:HG3	42:OI:100:ALA:HA	1.81	0.62
42:OK:290:GLU:HA	42:OK:293:ASN:HB3	1.79	0.62
42:PI:321:GLY:O	42:PI:322:ASP:C	2.37	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:QB:132:GLY:HA2	41:QB:162:ARG:HB3	1.81	0.62
41:QD:136:THR:HG22	41:QD:167:PHE:HB2	1.81	0.62
42:QI:321:GLY:HA3	42:QI:359:PRO:HA	1.81	0.62
41:RB:131:GLN:HE22	41:RB:250:LEU:H	1.45	0.62
41:SH:272:PRO:HG3	41:SH:364:SER:HA	1.81	0.62
42:SK:204:VAL:HA	42:SK:303:VAL:HG22	1.81	0.62
42:TG:167:LEU:HD11	42:TG:202:PHE:HE2	1.63	0.62
42:TG:381:THR:HG22	42:TG:383:ALA:H	1.64	0.62
41:VD:178:THR:HG22	41:VD:180:VAL:H	1.64	0.62
41:VF:132:GLY:HA2	41:VF:162:ARG:HB3	1.81	0.62
42:VG:143:GLY:O	42:VG:186:ASN:ND2	2.32	0.62
41:WD:375:GLN:HB2	41:WD:419:VAL:HG13	1.81	0.62
26:4L:156:ARG:NH1	41:GH:114:ASP:OD1	2.33	0.62
32:5M:317:LEU:HD11	32:5M:337:LEU:HB3	1.82	0.62
32:5N:275:ARG:HH12	34:6C:478:ARG:HH12	1.44	0.62
34:6F:284:PHE:HA	34:6K:446:GLN:HE22	1.63	0.62
41:AB:186:THR:HB	41:AB:385:PHE:HB2	1.81	0.62
41:AB:311:LEU:HD12	41:AB:342:VAL:HG21	1.81	0.62
41:AH:311:LEU:HD23	41:AH:342:VAL:HG11	1.82	0.62
42:AI:11:GLN:HA	42:AI:74:VAL:HG21	1.81	0.62
41:BJ:156:ARG:HG2	41:BJ:195:ASN:HB2	1.82	0.62
41:BL:189:VAL:HA	41:BL:192:LEU:HB2	1.81	0.62
41:CB:8:GLN:HE21	41:CB:65:LEU:HG	1.63	0.62
42:CK:56:THR:HG21	42:DK:282:TYR:O	1.99	0.62
42:EI:224:TYR:HE1	45:EI:501:GTP:HN1	1.46	0.62
42:FI:352:LYS:NZ	41:FJ:99:ASN:OD1	2.30	0.62
41:JJ:25:SER:HG	41:JJ:51:TYR:HH	1.44	0.62
42:JK:262:TYR:CD2	42:JK:265:ILE:HD11	2.34	0.62
41:LF:311:LEU:O	41:LF:348:ASN:ND2	2.32	0.62
42:NC:98:ASP:HB3	42:NC:110:ILE:HG13	1.81	0.62
42:OC:324:VAL:HG12	42:OC:326:LYS:H	1.64	0.62
42:PA:248:LEU:HB2	42:PA:354:GLY:HA2	1.82	0.62
41:PH:338:SER:O	41:PH:340:TYR:N	2.28	0.62
41:PJ:47:ILE:HG12	41:PJ:59:TYR:CZ	2.34	0.62
42:QG:211:ASP:HA	42:QG:214:ARG:HE	1.64	0.62
41:QH:193:VAL:HA	41:QH:264:HIS:HE1	1.63	0.62
41:RB:101:TRP:HA	41:RB:142:GLY:HA2	1.80	0.62
42:RG:259:LEU:HD13	42:RG:316:CYS:HB2	1.81	0.62
41:SD:255:VAL:HG23	42:SE:407:TRP:CG	2.34	0.62
42:SM:363:VAL:HB	42:SM:366:GLY:HA3	1.81	0.62
42:TE:173:PRO:HB3	42:TE:183:GLU:HG2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:UJ:3:GLU:N	41:UJ:3:GLU:OE1	2.33	0.62
41:VD:252:LYS:O	41:VD:256:ASN:ND2	2.31	0.62
42:WG:142:GLY:HA2	42:WG:186:ASN:HB2	1.81	0.62
9:2D:575:ARG:HH21	41:IN:359:ARG:C	2.03	0.62
20:3O:623:ARG:NH1	41:ED:56:GLY:HA2	2.15	0.62
25:4J:181:SER:OG	25:4J:185:ARG:NH1	2.32	0.62
33:5X:101:GLN:OE1	34:6M:359:ASN:ND2	2.32	0.62
37:7C:216:PRO:O	42:TG:338:LYS:NZ	2.32	0.62
41:BJ:270:PHE:O	41:BJ:298:ASN:ND2	2.30	0.62
41:CJ:170:VAL:HG21	41:CJ:377:LEU:HD21	1.80	0.62
41:DL:263:LEU:HD13	41:DL:370:ASN:HD21	1.63	0.62
41:ED:5:VAL:HA	41:ED:62:ARG:HG2	1.82	0.62
42:EG:348:PRO:HD2	41:EH:388:MET:CE	2.30	0.62
42:EM:109:THR:O	42:EM:110:ILE:C	2.37	0.62
41:FH:202:ILE:HG21	41:FH:229:VAL:HG23	1.81	0.62
42:GE:255:PHE:HZ	42:GE:318:LEU:HD11	1.65	0.62
41:IL:221:THR:HG23	41:IL:223:GLY:H	1.63	0.62
42:IM:93:ILE:HD11	42:IM:121:ARG:HG3	1.81	0.62
41:KJ:209:ASP:HB3	41:KJ:213:ARG:HH21	1.65	0.62
41:ND:5:VAL:HG23	41:ND:130:LEU:HD21	1.80	0.62
41:ND:118:ASP:HA	41:ND:121:ARG:HE	1.64	0.62
41:OD:296:ALA:HB2	41:OD:306:ARG:HH12	1.64	0.62
42:PC:70:LEU:HA	42:PC:95:GLY:HA3	1.80	0.62
41:PJ:63:ALA:HB1	41:PJ:65:LEU:HD12	1.81	0.62
42:PK:8:HIS:HA	42:PK:138:PHE:HB2	1.81	0.62
42:QC:185:TYR:HE2	42:QC:404:PHE:HB2	1.65	0.62
41:RB:6:HIS:CD2	41:RB:134:GLN:HG2	2.34	0.62
41:RH:101:TRP:HE1	41:RH:188:SER:HB3	1.64	0.62
41:RL:242:PHE:HB3	41:RL:356:ILE:HD13	1.80	0.62
41:TD:6:HIS:HD2	41:TD:8:GLN:HE21	1.45	0.62
42:TE:274:PRO:HG3	42:TE:374:ALA:HA	1.82	0.62
42:TG:16:ILE:O	42:TG:20:CYS:N	2.31	0.62
42:TI:90:GLU:HG3	42:TI:121:ARG:HH11	1.64	0.62
6:1R:70:ARG:NH2	25:4J:363:ASP:OD2	2.32	0.62
11:2K:313:ILE:HG21	42:UK:58:ALA:HB2	1.82	0.62
11:2L:86:ARG:NH2	41:WJ:128:ASP:OD1	2.31	0.62
11:2L:294:GLU:OE1	41:UD:276:ARG:NH1	2.31	0.62
32:5N:324:PRO:HG2	32:5N:327:GLU:HG3	1.82	0.62
34:6C:297:PRO:HG3	34:6D:414:ASP:HA	1.82	0.62
35:6S:287:GLN:NE2	35:6S:288:ASP:OD1	2.33	0.62
42:BE:180:ALA:HB3	42:BE:183:GLU:HG3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CE:76:ASP:HA	42:CE:79:ARG:HD2	1.82	0.62
41:DB:186:THR:HG21	41:DB:385:PHE:HB2	1.81	0.62
41:EH:14:ASN:HB3	41:EH:76:VAL:HG21	1.82	0.62
42:EK:2:ARG:HH21	42:EK:51:THR:HB	1.64	0.62
41:GD:334:GLN:HE22	41:GD:348:ASN:H	1.47	0.62
42:GG:279:GLU:O	42:GG:283:HIS:HE1	1.83	0.62
42:GI:258:ASN:HD21	41:GJ:178:THR:HA	1.65	0.62
42:HG:195:LEU:HD21	42:HG:428:LEU:HD13	1.82	0.62
42:HK:91:GLN:HE21	42:HK:125:LEU:HD21	1.65	0.62
41:JH:11:GLN:NE2	43:JH:501:GDP:O2A	2.31	0.62
41:LN:170:VAL:HG21	41:LN:377:LEU:HD21	1.80	0.62
42:MG:269:LEU:HD21	42:MG:384:ILE:HG13	1.82	0.62
41:NH:252:LYS:HG2	42:NI:100:ALA:HA	1.81	0.62
41:NJ:221:THR:HG23	41:NJ:223:GLY:H	1.63	0.62
42:QC:180:ALA:HB3	42:QC:183:GLU:HB2	1.80	0.62
41:QH:77:ARG:HA	41:QH:82:GLY:HA3	1.81	0.62
41:RB:346:PRO:HB3	42:RC:394:LYS:HD2	1.80	0.62
41:RD:345:ILE:HG21	41:RD:348:ASN:HB3	1.80	0.62
41:RD:372:THR:HG21	41:RD:426:GLN:HA	1.81	0.62
42:RK:211:ASP:OD2	42:RK:215:ARG:NH2	2.31	0.62
42:SM:51:THR:HG21	42:SM:243:ARG:HG3	1.81	0.62
41:TL:58:LYS:HE2	41:UL:280:GLN:HB3	1.82	0.62
42:TM:238:ILE:HG13	42:TM:239:THR:HG23	1.79	0.62
41:UH:325:GLU:OE1	42:UI:221:ARG:NH1	2.32	0.62
41:VF:282:ARG:HH22	41:VF:292:GLN:HG3	1.65	0.62
41:VH:61:PRO:HD3	41:VH:84:ILE:HG12	1.81	0.62
8:1X:36:ARG:HG2	27:4O:211:ILE:HG22	1.81	0.62
9:2D:567:TYR:CE1	41:IN:276:ARG:HD2	2.34	0.62
19:3J:424:ALA:HB2	19:3J:505:ILE:HD13	1.79	0.62
20:3N:13:GLY:H	41:KD:70:PRO:N	1.98	0.62
21:3T:29:ARG:HH22	42:KE:422:ARG:HG3	1.63	0.62
42:BC:326:LYS:HD3	41:BD:220:PRO:HD2	1.80	0.62
41:BL:322:SER:HB2	41:BL:325:GLU:HB3	1.80	0.62
41:CB:410:GLU:OE2	41:CB:414:ASN:ND2	2.32	0.62
41:CH:156:ARG:NH1	41:CH:162:ARG:O	2.32	0.62
42:DE:258:ASN:ND2	41:DF:99:ASN:OD1	2.33	0.62
42:DK:172:TYR:HE2	42:DK:391:LEU:HD22	1.65	0.62
42:DM:7:VAL:HB	42:DM:137:ILE:HG12	1.81	0.62
41:EJ:204:ASN:HA	41:EJ:207:LEU:HD12	1.80	0.62
41:EL:236:VAL:HG13	41:EL:237:THR:HG23	1.82	0.62
42:FC:108:TYR:HB3	42:FC:412:GLY:HA3	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:FK:93:ILE:HD11	42:FK:121:ARG:HG3	1.81	0.62
42:HI:250:VAL:HG23	42:HI:254:GLU:HB2	1.80	0.62
42:IC:64:ARG:HG2	42:IC:125:LEU:HD11	1.81	0.62
42:IM:28:HIS:HE1	42:IM:243:ARG:HH11	1.47	0.62
42:JK:171:ILE:HG12	45:JK:501:GTP:N2	2.14	0.62
42:KG:50:ASN:O	42:KG:64:ARG:NH1	2.32	0.62
42:NA:151:SER:HB2	42:NA:193:THR:HG21	1.81	0.62
41:NF:55:THR:HG21	41:OF:284:LEU:HD23	1.81	0.62
41:NJ:330:MET:HB3	41:NJ:349:VAL:HG21	1.82	0.62
41:OD:61:PRO:HD3	41:OD:84:ILE:HG13	1.81	0.62
41:PF:24:ILE:HG22	41:PF:234:SER:HB2	1.81	0.62
41:PF:53:GLU:HA	41:PF:59:TYR:HA	1.81	0.62
42:PI:320:ARG:HD3	42:PI:374:ALA:HB3	1.81	0.62
41:PL:272:PRO:HG3	41:PL:289:LEU:HD11	1.80	0.62
41:QF:395:LEU:O	41:QF:399:THR:N	2.28	0.62
42:QG:244:PHE:O	42:QG:356:ASN:ND2	2.33	0.62
41:QJ:103:LYS:HA	41:QJ:107:THR:HB	1.81	0.62
41:RF:407:GLU:HA	41:RF:410:GLU:HG3	1.80	0.62
42:RK:2:ARG:HH11	42:RK:242:LEU:HG	1.65	0.62
42:SM:269:LEU:HB3	42:SM:301:GLN:NE2	2.14	0.62
41:TF:68:LEU:HD22	41:TF:97:ALA:HB2	1.81	0.62
42:TG:154:MET:O	42:TG:166:LYS:NZ	2.33	0.62
42:TK:69:ASP:HB3	42:TK:75:ILE:HD11	1.82	0.62
42:UM:377:MET:SD	42:UM:379:SER:OG	2.58	0.62
41:WF:385:PHE:HZ	41:WF:408:PHE:HB3	1.65	0.62
41:WJ:234:SER:OG	41:WJ:241:ARG:NH2	2.32	0.62
19:3J:96:VAL:HG21	42:AC:43:GLY:HA2	1.82	0.62
19:3K:121:HIS:HB2	19:3K:134:ILE:HG22	1.81	0.62
33:5R:97:GLU:HA	33:5R:100:GLU:HG3	1.82	0.62
37:7C:199:GLN:N	41:SH:125:GLU:OE1	2.33	0.62
41:CF:309:ARG:HG3	41:CF:426:GLN:HB2	1.82	0.62
41:CH:19:LYS:NZ	41:CH:223:GLY:O	2.33	0.62
41:ED:290:THR:HA	41:ED:293:MET:HG2	1.81	0.62
42:EG:401:LYS:O	42:EG:402:ARG:C	2.38	0.62
42:FI:218:ASP:HB2	42:FI:280:LYS:HD3	1.82	0.62
41:GF:347:ASN:ND2	42:GG:180:ALA:O	2.33	0.62
42:GG:191:THR:HA	42:GG:194:THR:HG22	1.82	0.62
42:HC:209:ILE:HG13	42:HC:227:LEU:HD22	1.81	0.62
41:HH:304:ASP:HB2	41:HH:306:ARG:HE	1.64	0.62
42:JK:212:ILE:HD13	42:JK:215:ARG:HD2	1.80	0.62
41:KH:49:VAL:HG21	41:KH:241:ARG:HG2	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:KL:257:MET:HE1	41:KL:314:ALA:HB2	1.81	0.62
42:LM:180:ALA:HB3	42:LM:183:GLU:HB2	1.80	0.62
41:MD:21:TRP:O	41:MD:25:SER:HB2	1.98	0.62
42:MM:317:LEU:HB2	42:MM:353:VAL:HA	1.82	0.62
42:NK:180:ALA:HB3	42:NK:183:GLU:HG3	1.82	0.62
42:NK:346:TRP:O	41:NL:388:MET:HB3	2.00	0.62
41:OB:46:ARG:CB	41:OB:241:ARG:HA	2.30	0.62
41:OD:273:LEU:O	41:OD:292:GLN:NE2	2.31	0.62
41:OL:3:GLU:HG3	41:OL:127:CYS:HB2	1.82	0.62
42:PG:89:PRO:HD3	42:QG:283:HIS:CD2	2.34	0.62
42:PG:240:ALA:O	42:PG:243:ARG:HB2	2.00	0.62
42:PK:115:ILE:HB	42:PK:152:LEU:HD13	1.81	0.62
41:RB:5:VAL:HG12	41:RB:62:ARG:HG2	1.82	0.62
42:RI:137:ILE:HB	42:RI:168:GLU:HG3	1.80	0.62
42:SE:244:PHE:HB2	42:SE:358:GLN:HG2	1.81	0.62
42:SG:292:THR:HG21	42:SG:331:ALA:HB1	1.81	0.62
41:TD:46:ARG:NH2	42:TE:76:ASP:OD2	2.32	0.62
42:TG:76:ASP:OD1	42:TG:79:ARG:NH1	2.33	0.62
9:2D:500:ASN:HA	41:IL:221:THR:HG21	1.82	0.62
34:6C:208:ILE:HB	34:6C:461:VAL:HG21	1.82	0.62
34:6C:364:HIS:HB3	34:6C:455:LEU:HD21	1.81	0.62
37:7F:52:SER:OG	37:7F:53:PHE:N	2.33	0.62
42:AI:346:TRP:HZ2	42:AI:438:ASP:HA	1.65	0.62
41:BB:376:GLU:HA	41:BB:379:LYS:HE3	1.82	0.62
41:BJ:27:GLU:OE2	41:BJ:241:ARG:NH2	2.33	0.62
42:CK:71:GLU:HB3	42:CK:98:ASP:HB2	1.82	0.62
41:DJ:171:PRO:HG3	41:DJ:181:GLU:HG2	1.82	0.62
41:FD:98:GLY:O	41:FD:99:ASN:C	2.39	0.62
42:FG:241:SER:OG	42:FG:250:VAL:N	2.33	0.62
42:FK:329:ASN:HB3	41:FL:175:VAL:HG12	1.82	0.62
42:GK:98:ASP:O	42:GK:105:ARG:NH1	2.33	0.62
41:GL:345:ILE:HG23	42:GM:394:LYS:HZ1	1.64	0.62
42:JC:27:GLU:OE2	42:JC:243:ARG:NH2	2.33	0.62
41:KJ:236:VAL:HG23	41:KJ:237:THR:HG23	1.81	0.62
41:MN:316:VAL:HA	41:MN:352:ALA:HB3	1.82	0.62
41:OJ:143:THR:N	43:OJ:501:GDP:O1B	2.32	0.62
42:PC:9:VAL:HG13	42:PC:68:VAL:HG13	1.81	0.62
42:PG:199:ASP:O	42:PG:266:HIS:HB2	2.00	0.62
42:QC:248:LEU:H	42:QC:355:ILE:HB	1.65	0.62
41:QH:260:PHE:HB2	41:QH:263:LEU:HD21	1.81	0.62
41:QL:284:LEU:HG	41:QL:363:MET:HG3	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:RD:392:LYS:HD3	41:RD:395:LEU:HD23	1.80	0.62
42:RG:254:GLU:O	42:RG:258:ASN:ND2	2.33	0.62
41:RH:15:GLN:O	41:RH:226:ASN:ND2	2.32	0.62
41:RH:54:ALA:HA	41:SH:283:ALA:HB2	1.82	0.62
41:RL:130:LEU:O	41:RL:162:ARG:NH2	2.28	0.62
41:SH:252:LYS:NZ	45:SI:501:GTP:O3G	2.33	0.62
42:TM:101:ASN:HA	42:TM:143:GLY:HA2	1.82	0.62
42:UM:212:ILE:HG12	42:UM:275:VAL:HG11	1.82	0.62
42:VE:402:ARG:HG2	42:VE:405:VAL:HG21	1.81	0.62
42:VG:439:SER:HB2	41:VH:391:ARG:HE	1.64	0.62
41:WH:70:PRO:HD3	41:WH:94:GLN:HA	1.81	0.62
30:5A:273:TRP:CH2	42:LE:322:ASP:HA	2.35	0.62
33:5X:158:ALA:HA	33:5X:239:LEU:HD21	1.82	0.62
34:6K:243:GLN:OE1	34:6K:247:ASN:ND2	2.32	0.62
35:6S:297:CYS:O	35:6S:301:ASN:ND2	2.32	0.62
42:BC:286:LEU:O	42:BC:373:ARG:NH1	2.32	0.62
41:BD:346:PRO:HD2	42:BE:398:MET:CG	2.28	0.62
42:DK:28:HIS:O	42:DK:30:ILE:N	2.33	0.62
42:DK:265:ILE:HD11	42:DK:435:VAL:HG11	1.81	0.62
41:EH:117:LEU:HA	41:EH:120:VAL:HG22	1.80	0.62
42:EM:201:ALA:O	42:EM:202:PHE:C	2.39	0.62
42:EM:274:PRO:HB3	42:EM:371:VAL:HG11	1.82	0.62
41:FH:414:ASN:HA	41:FH:417:ASP:HB2	1.81	0.62
42:HE:217:LEU:HD11	42:HE:367:ASP:HB3	1.80	0.62
41:IF:139:LEU:HD12	41:IF:170:VAL:HG12	1.80	0.62
42:JC:311:LYS:NZ	42:JC:436:GLY:HA2	2.15	0.62
41:JH:375:GLN:HE22	41:JH:419:VAL:HA	1.65	0.62
42:KK:88:HIS:HB3	42:KK:91:GLN:HB2	1.82	0.62
42:MK:102:ASN:ND2	42:MK:407:TRP:O	2.33	0.62
42:NK:336:LYS:HE2	41:NL:175:VAL:HG22	1.82	0.62
42:OI:185:TYR:HE2	42:OI:404:PHE:HB2	1.64	0.62
42:QC:189:LEU:HD21	42:QC:418:PHE:HE1	1.63	0.62
41:QL:244:GLY:HA2	41:QL:355:ASP:HB2	1.81	0.62
41:RD:2:ARG:H	41:RD:129:CYS:HB2	1.65	0.62
41:SD:11:GLN:HA	41:SD:72:THR:HG21	1.82	0.62
41:SF:396:HIS:H	41:SF:396:HIS:CD2	2.17	0.62
41:SJ:7:LEU:HD22	41:SJ:120:VAL:HG22	1.82	0.62
41:TJ:213:ARG:HE	41:TJ:297:LYS:HG3	1.64	0.62
42:TM:306:ASP:OD1	42:TM:309:HIS:ND1	2.32	0.62
42:UC:16:ILE:HD12	42:UC:231:ILE:HG21	1.82	0.62
42:UM:2:ARG:HG3	42:UM:133:GLN:HE22	1.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:VE:139:HIS:ND1	42:VE:146:GLY:O	2.32	0.62
21:3V:51:THR:OG1	41:KL:337:ASN:ND2	2.31	0.61
31:5D:128:CYS:SG	42:PC:278:ALA:HB3	2.40	0.61
33:5X:311:LEU:HB2	33:5X:345:LEU:HD22	1.81	0.61
35:6P:253:THR:HG22	35:6Q:370:ARG:HD3	1.81	0.61
42:AK:174:ALA:HB3	42:AK:177:VAL:O	2.00	0.61
42:DI:143:GLY:O	42:DI:186:ASN:ND2	2.33	0.61
42:EG:10:GLY:O	42:EG:11:GLN:C	2.39	0.61
41:FD:271:ALA:HB3	41:FD:272:PRO:HD3	1.82	0.61
42:FE:91:GLN:HG2	42:FE:121:ARG:HD2	1.82	0.61
42:FG:140:SER:HA	42:FG:171:ILE:HB	1.82	0.61
42:FK:100:ALA:O	42:FK:101:ASN:C	2.39	0.61
42:GC:320:ARG:HH12	42:GC:360:PRO:HB3	1.65	0.61
41:HH:347:ASN:HD22	42:HI:178:SER:HB3	1.65	0.61
41:HL:12:CYS:SG	41:HL:138:SER:OG	2.56	0.61
41:ID:387:ALA:HA	41:ID:390:ARG:HH21	1.65	0.61
42:JM:2:ARG:HH12	42:JM:50:ASN:HB3	1.65	0.61
42:KE:71:GLU:HB2	42:KE:98:ASP:HB3	1.82	0.61
42:KI:175:PRO:HG3	42:KI:304:LYS:HB2	1.80	0.61
42:MM:3:GLU:HA	42:MM:51:THR:HA	1.82	0.61
42:NG:63:PRO:HG3	42:NG:87:PHE:CD1	2.34	0.61
41:PF:64:VAL:HG21	41:PF:120:VAL:HG22	1.81	0.61
41:PH:344:TRP:O	41:PH:345:ILE:C	2.38	0.61
42:PI:240:ALA:O	42:PI:241:SER:C	2.39	0.61
41:PJ:354:CYS:SG	41:PJ:355:ASP:N	2.72	0.61
42:QE:27:GLU:HG3	42:QE:244:PHE:HZ	1.64	0.61
42:QG:247:ALA:HB3	42:QG:355:ILE:HB	1.81	0.61
41:RJ:293:MET:SD	41:RJ:367:PHE:HB3	2.40	0.61
41:TD:247:ASN:ND2	42:TE:71:GLU:OE1	2.32	0.61
42:UE:323:VAL:HG22	42:UE:373:ARG:HG2	1.82	0.61
41:UL:61:PRO:HD3	41:UL:84:ILE:HG12	1.81	0.61
12:2Q:505:ASN:HD21	41:VL:40:SER:HA	1.65	0.61
33:5Q:17:TRP:NE1	33:5R:127:ASP:OD2	2.29	0.61
34:6B:357:ALA:HB3	34:6B:462:LYS:NZ	2.15	0.61
41:BD:172:SER:HB3	41:BD:205:GLU:HG2	1.82	0.61
41:BD:206:ALA:CB	41:BD:302:ALA:HB2	2.30	0.61
42:CE:246:GLY:HA3	42:CE:356:ASN:HA	1.82	0.61
41:CH:107:THR:HG22	41:CH:108:GLU:H	1.65	0.61
42:DK:12:ALA:HB2	45:DK:501:GTP:C8	2.35	0.61
41:DL:313:VAL:HB	41:DL:349:VAL:HG22	1.82	0.61
42:EC:2:ARG:HD3	42:EC:242:LEU:HG	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:FJ:68:LEU:HD12	41:FJ:93:GLY:HA3	1.82	0.61
42:GC:322:ASP:OD1	42:GC:372:GLN:NE2	2.33	0.61
41:GH:248:ALA:HA	41:GH:252:LYS:HD2	1.82	0.61
41:HH:42:LEU:HA	41:HH:45:GLU:HG3	1.82	0.61
42:HI:14:VAL:HG21	42:HI:74:VAL:HG13	1.81	0.61
41:JF:247:ASN:C	41:JF:247:ASN:HD22	1.99	0.61
41:JH:73:MET:HA	41:JH:76:VAL:HG12	1.82	0.61
41:MH:163:ILE:HD11	41:MH:251:ARG:HD3	1.81	0.61
42:MM:405:VAL:HG23	42:MM:418:PHE:HE2	1.64	0.61
41:OD:152:ILE:HG23	41:OD:164:MET:HE3	1.81	0.61
42:PA:7:VAL:HG22	42:PA:9:VAL:HG22	1.80	0.61
41:PH:21:TRP:CZ3	41:PH:61:PRO:HB3	2.36	0.61
42:QE:244:PHE:HD2	42:QE:356:ASN:HD21	1.48	0.61
41:QJ:117:LEU:HA	41:QJ:120:VAL:HG12	1.81	0.61
41:RB:286:VAL:HG23	41:RB:289:LEU:HD12	1.81	0.61
41:RH:207:LEU:HB3	41:RH:225:LEU:HD22	1.82	0.61
41:SH:131:GLN:HA	41:SH:162:ARG:HH11	1.65	0.61
42:SK:4:CYS:HB3	42:SK:133:GLN:HE21	1.65	0.61
42:TG:167:LEU:HD22	42:TG:252:LEU:HD11	1.81	0.61
42:TI:431:ASP:HA	42:TI:434:GLU:HB3	1.82	0.61
42:UK:247:ALA:HB3	42:UK:355:ILE:HB	1.81	0.61
42:VM:7:VAL:HB	42:VM:137:ILE:HG22	1.81	0.61
3:1H:422:ARG:NH1	42:TM:372:GLN:OE1	2.34	0.61
20:3P:10:GLN:H	42:KK:47:ASP:HB3	1.65	0.61
20:3P:73:ASP:HB2	20:3P:84:ARG:HD3	1.81	0.61
27:4O:216:GLN:NE2	41:WD:115:SER:O	2.33	0.61
31:5J:128:CYS:SG	42:PA:283:HIS:NE2	2.73	0.61
33:5V:134:GLU:OE2	33:5V:138:HIS:NE2	2.32	0.61
33:5X:59:ASP:OD2	33:5X:63:ARG:NH1	2.33	0.61
33:5X:280:LYS:HD2	33:5X:377:ILE:HD12	1.82	0.61
34:6M:167:MET:HE1	34:6M:247:ASN:HB3	1.80	0.61
42:CG:403:ALA:O	42:CG:405:VAL:N	2.33	0.61
41:DF:309:ARG:NE	41:DF:426:GLN:OE1	2.32	0.61
42:EK:346:TRP:CZ2	42:EK:435:VAL:HG22	2.35	0.61
42:FE:241:SER:HB2	42:FE:250:VAL:H	1.65	0.61
42:FE:311:LYS:H	42:FE:382:THR:HB	1.65	0.61
41:FJ:100:ASN:HA	41:FJ:180:VAL:HG11	1.82	0.61
42:FM:196:GLU:HG3	42:FM:197:HIS:CE1	2.34	0.61
41:GD:202:ILE:HG21	41:GD:229:VAL:HB	1.81	0.61
42:GG:28:HIS:CE1	42:GG:243:ARG:HD2	2.34	0.61
41:HJ:235:GLY:HA3	41:HJ:366:THR:HG21	1.80	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:HK:105:ARG:HA	42:HK:109:THR:HB	1.82	0.61
41:IF:347:ASN:HD22	42:IG:178:SER:HB3	1.65	0.61
42:JC:238:ILE:HG23	42:JC:255:PHE:HE2	1.65	0.61
41:JJ:49:VAL:HG11	41:JJ:241:ARG:HG2	1.82	0.61
41:KL:27:GLU:OE2	41:KL:241:ARG:NH2	2.32	0.61
41:LD:68:LEU:HD22	41:LD:97:ALA:HB2	1.82	0.61
41:MF:281:TYR:HB2	41:MF:282:ARG:HH11	1.64	0.61
42:MK:280:LYS:HA	42:MK:283:HIS:HB2	1.82	0.61
41:ML:132:GLY:HA2	41:ML:162:ARG:HB3	1.82	0.61
42:MM:63:PRO:O	42:MM:91:GLN:NE2	2.32	0.61
42:NE:107:HIS:HB2	42:NE:152:LEU:HB2	1.82	0.61
41:NJ:260:PHE:CE1	42:NK:403:ALA:HA	2.34	0.61
42:PC:238:ILE:HG21	42:PC:378:LEU:HD22	1.82	0.61
42:PG:325:PRO:HA	42:PG:328:VAL:CG1	2.30	0.61
42:PG:362:VAL:HG11	42:PG:370:LYS:HA	1.82	0.61
41:QH:69:GLU:HG2	41:QH:96:GLY:HA3	1.82	0.61
41:QH:109:GLY:HA2	41:QH:112:LEU:HB2	1.83	0.61
41:RL:3:GLU:OE1	41:RL:62:ARG:NH1	2.31	0.61
41:TD:221:THR:HG23	41:TD:223:GLY:H	1.64	0.61
41:TH:174:LYS:HG3	41:TH:175:VAL:HG13	1.83	0.61
41:TJ:49:VAL:HG11	41:TJ:241:ARG:HG2	1.82	0.61
41:UJ:107:THR:HG22	41:UJ:108:GLU:H	1.64	0.61
41:VH:4:ILE:HD11	41:VH:240:LEU:HD21	1.82	0.61
29:4Y:44:LEU:HB3	29:4Y:56:ILE:HG22	1.83	0.61
30:5A:338:LEU:HD21	42:LC:370:LYS:H	1.63	0.61
33:5W:177:ARG:NH2	35:6U:139:GLU:OE2	2.34	0.61
33:5W:189:CYS:HA	33:5W:192:LEU:HD23	1.82	0.61
34:6I:71:ARG:HG3	34:6I:73:GLN:H	1.64	0.61
42:AI:274:PRO:HB2	42:AI:371:VAL:HG11	1.82	0.61
41:CB:207:LEU:HB3	41:CB:225:LEU:HG	1.83	0.61
42:DE:350:GLY:H	41:DF:179:VAL:HG23	1.64	0.61
42:EC:260:VAL:HG23	41:ED:397:TRP:CZ2	2.35	0.61
42:EE:332:ILE:HA	42:EE:335:ILE:HD12	1.80	0.61
41:EH:246:LEU:HA	42:EI:11:GLN:HE22	1.66	0.61
41:FL:342:VAL:CG1	41:FL:345:ILE:H	2.12	0.61
42:JG:105:ARG:HH21	42:JG:110:ILE:HD13	1.64	0.61
41:JH:350:LYS:HZ1	42:JI:181:VAL:H	1.48	0.61
42:KK:437:MET:O	41:KL:391:ARG:NH1	2.33	0.61
41:MH:170:VAL:HG21	41:MH:377:LEU:HD11	1.82	0.61
41:ML:377:LEU:HA	41:ML:380:ARG:HE	1.65	0.61
41:MN:246:LEU:HB3	41:MN:352:ALA:HA	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:NB:358:PRO:HB2	41:NB:361:LEU:HD12	1.82	0.61
42:OE:79:ARG:NH2	42:OE:92:LEU:O	2.33	0.61
42:PC:134:GLY:HA2	42:PC:166:LYS:HA	1.82	0.61
42:PI:339:ARG:O	42:PI:340:THR:C	2.39	0.61
41:PJ:391:ARG:O	41:PJ:392:LYS:C	2.39	0.61
41:QB:117:LEU:HA	41:QB:120:VAL:HG12	1.82	0.61
41:RH:14:ASN:HB3	41:RH:76:VAL:HG21	1.82	0.61
42:RI:362:VAL:HG13	42:RI:370:LYS:HZ3	1.66	0.61
41:SD:242:PHE:HD1	41:SD:356:ILE:HG21	1.64	0.61
41:SJ:150:LEU:O	41:SJ:154:LYS:NZ	2.34	0.61
41:TL:375:GLN:NE2	41:TL:418:LEU:O	2.34	0.61
42:UI:344:VAL:HB	42:UI:346:TRP:CD1	2.35	0.61
41:VH:167:PHE:CE1	41:VH:233:MET:HG2	2.35	0.61
42:WM:320:ARG:HH22	42:WM:360:PRO:HA	1.66	0.61
9:2D:575:ARG:NH2	41:IN:359:ARG:C	2.54	0.61
28:4W:80:ASN:O	42:GM:47:ASP:HB3	2.01	0.61
31:5D:79:LYS:O	31:5D:83:HIS:ND1	2.33	0.61
42:AG:326:LYS:HG2	41:AH:220:PRO:HD2	1.80	0.61
41:AH:7:LEU:HB2	41:AH:135:LEU:HD12	1.82	0.61
42:AK:167:LEU:HB3	42:AK:202:PHE:HE2	1.65	0.61
41:BH:248:ALA:HA	41:BH:252:LYS:HD3	1.82	0.61
42:DC:121:ARG:HH12	42:DC:124:LYS:HE3	1.64	0.61
41:DD:293:MET:HG2	41:DD:367:PHE:HB2	1.83	0.61
41:DL:209:ASP:OD1	41:DL:213:ARG:NE	2.30	0.61
41:ED:107:THR:OG1	41:ED:108:GLU:N	2.29	0.61
42:EM:175:PRO:HG3	42:EM:304:LYS:HG3	1.82	0.61
42:FI:8:HIS:HB2	42:FI:67:PHE:HA	1.82	0.61
42:FI:269:LEU:HD21	42:FI:384:ILE:HD12	1.82	0.61
42:GI:229:ARG:HD2	42:GI:363:VAL:HG11	1.82	0.61
42:HI:261:PRO:HA	41:HJ:394:PHE:CD1	2.36	0.61
41:ID:46:ARG:HH22	42:IE:72:PRO:HB2	1.66	0.61
42:LM:1:MET:SD	41:LN:94:GLN:NE2	2.72	0.61
42:LM:328:VAL:HG11	42:LM:353:VAL:HG11	1.83	0.61
41:NB:135:LEU:HB3	41:NB:166:THR:HG22	1.82	0.61
41:NF:248:ALA:HA	41:NF:252:LYS:HD3	1.81	0.61
41:OH:314:ALA:HB3	41:OH:368:ILE:HB	1.82	0.61
42:OI:264:ARG:NH1	42:OI:431:ASP:OD2	2.33	0.61
41:OJ:20:PHE:HA	41:OJ:230:SER:HB3	1.82	0.61
42:PI:8:HIS:O	42:PI:67:PHE:HA	2.00	0.61
41:QF:182:PRO:HG3	41:QF:384:GLN:HB3	1.82	0.61
41:QL:271:ALA:HB2	41:QL:293:MET:HG3	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:RF:30:ILE:HG23	41:RF:34:GLY:HA2	1.82	0.61
42:RK:311:LYS:H	42:RK:382:THR:HB	1.65	0.61
41:SH:290:THR:HG21	41:SH:329:GLN:HB3	1.82	0.61
41:SJ:55:THR:H	41:TJ:283:ALA:HA	1.65	0.61
42:TE:1:MET:N	42:TE:130:THR:OG1	2.32	0.61
41:TH:64:VAL:HA	41:TH:89:ASN:HB3	1.81	0.61
41:TL:156:ARG:HG3	41:TL:195:ASN:HB2	1.81	0.61
41:UD:8:GLN:HE22	41:UD:63:ALA:HB1	1.65	0.61
42:UE:356:ASN:OD1	42:UE:357:TYR:N	2.33	0.61
41:UH:54:ALA:HA	41:VH:283:ALA:HB2	1.81	0.61
8:2A:104:ARG:HD3	42:AI:423:GLU:HG2	1.82	0.61
9:2D:355:ARG:NH1	42:IG:279:GLU:OE1	2.32	0.61
13:2S:231:ARG:NH2	42:GE:278:ALA:O	2.34	0.61
27:4O:157:LEU:HB3	27:4O:196:ILE:HG21	1.82	0.61
32:5N:115:CYS:SG	32:5N:394:ARG:NH2	2.72	0.61
32:5N:311:LYS:NZ	33:5X:413:ARG:HD2	2.16	0.61
34:6L:406:ARG:HD2	34:6L:410:GLU:HG3	1.81	0.61
41:AH:1:MET:SD	42:AI:96:LYS:HA	2.40	0.61
41:BJ:383:GLU:HA	41:BJ:386:THR:HG22	1.83	0.61
42:BK:271:THR:HB	42:BK:377:MET:HB3	1.83	0.61
41:BL:174:LYS:HD2	41:BL:175:VAL:HG23	1.81	0.61
41:CL:130:LEU:HD22	41:CL:162:ARG:HG2	1.82	0.61
41:CL:215:LEU:HD11	41:CL:228:LEU:HD21	1.82	0.61
41:DB:234:SER:O	41:DB:241:ARG:NH2	2.33	0.61
41:DJ:59:TYR:HA	41:EJ:282:ARG:HH21	1.63	0.61
41:EF:139:LEU:HD11	41:EF:192:LEU:HD22	1.81	0.61
42:EI:250:VAL:HG23	42:EI:254:GLU:HB2	1.83	0.61
42:FC:104:ALA:HA	42:FC:108:TYR:HD2	1.65	0.61
41:FF:372:THR:HG21	41:FF:426:GLN:HB3	1.82	0.61
41:GD:132:GLY:HA2	41:GD:162:ARG:HB3	1.82	0.61
42:GM:33:ASP:HB3	42:GM:85:GLN:HB2	1.83	0.61
41:HB:5:VAL:HG23	41:HB:130:LEU:HD11	1.82	0.61
41:HB:354:CYS:SG	41:HB:355:ASP:N	2.73	0.61
41:HF:107:THR:O	41:HF:109:GLY:N	2.33	0.61
42:HI:210:TYR:CE1	42:HI:227:LEU:HD11	2.35	0.61
41:ID:87:PRO:HA	41:ID:90:PHE:HB2	1.81	0.61
42:IK:107:HIS:ND1	42:IK:152:LEU:HB2	2.16	0.61
42:JE:381:THR:HG22	42:JE:383:ALA:H	1.66	0.61
41:JL:246:LEU:HD11	45:JM:501:GTP:H5 ⁺	1.82	0.61
41:NJ:342:VAL:HG12	41:NJ:345:ILE:H	1.65	0.61
42:OE:205:ASP:OD2	42:OE:303:VAL:HA	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:OF:86:ARG:HG3	41:OF:88:ASP:H	1.66	0.61
41:PH:344:TRP:CZ2	41:PH:425:TYR:HB3	2.35	0.61
42:QG:180:ALA:HB3	42:QG:183:GLU:HB2	1.81	0.61
41:QJ:290:THR:HG21	41:QJ:329:GLN:HB3	1.82	0.61
41:RD:166:THR:HB	41:RD:199:THR:HG22	1.81	0.61
42:RE:316:CYS:HB3	42:RE:378:LEU:HB2	1.82	0.61
42:SC:8:HIS:CE1	42:SC:17:GLY:CA	2.84	0.61
42:SK:273:ALA:HA	42:SK:300:ASN:HD21	1.65	0.61
41:SL:322:SER:N	42:SM:221:ARG:HH22	1.98	0.61
41:TL:322:SER:HA	42:TM:223:THR:HG23	1.83	0.61
41:UL:334:GLN:NE2	41:UL:346:PRO:O	2.34	0.61
41:VD:318:ARG:HB2	41:VD:364:SER:HB3	1.82	0.61
41:WL:73:MET:HA	41:WL:76:VAL:HG22	1.83	0.61
14:2W:70:LYS:H	42:OA:219:ILE:HG12	1.64	0.61
14:2Y:103:TRP:CD1	41:OJ:362:LYS:HE3	2.35	0.61
20:3P:630:TYR:HA	20:3P:633:ARG:HH21	1.65	0.61
27:4P:65:ARG:HG3	27:4P:159:LEU:HA	1.81	0.61
34:6A:156:TRP:HB3	34:6A:261:LYS:HE3	1.81	0.61
37:7E:235:VAL:HG11	41:OF:336:LYS:HG3	1.82	0.61
41:AB:232:THR:HG21	41:AB:268:PRO:HB3	1.83	0.61
41:AJ:314:ALA:HB3	41:AJ:368:ILE:HB	1.81	0.61
41:BF:207:LEU:HD23	41:BF:225:LEU:HB3	1.82	0.61
42:CE:4:CYS:HB3	42:CE:52:PHE:HE1	1.66	0.61
41:CH:68:LEU:HD12	41:CH:97:ALA:HB2	1.82	0.61
42:DE:16:ILE:HD11	42:DE:171:ILE:HD11	1.81	0.61
41:DF:235:GLY:HA3	41:DF:366:THR:HG21	1.82	0.61
41:EH:52:ASN:OD1	41:EH:62:ARG:NH1	2.33	0.61
42:EI:123:ARG:HH21	42:FI:338:LYS:HE2	1.66	0.61
42:EK:201:ALA:CB	42:EK:267:PHE:HA	2.31	0.61
42:EK:257:THR:HA	41:EL:397:TRP:CH2	2.35	0.61
42:EK:415:GLU:O	42:EK:416:GLY:C	2.38	0.61
42:FG:102:ASN:ND2	42:FG:411:GLU:OE1	2.34	0.61
41:GH:34:GLY:HA3	41:GH:58:LYS:HG3	1.81	0.61
41:GH:375:GLN:HB2	41:GH:419:VAL:HG23	1.82	0.61
42:HC:93:ILE:HD12	42:HC:117:LEU:HD13	1.82	0.61
41:HH:398:TYR:HB3	41:HH:403:MET:HG3	1.83	0.61
42:IG:325:PRO:O	42:IG:329:ASN:ND2	2.34	0.61
41:LD:132:GLY:HA3	41:LD:163:ILE:HG22	1.83	0.61
42:LE:286:LEU:HD13	42:LE:371:VAL:HG13	1.83	0.61
42:NA:274:PRO:HB2	42:NA:371:VAL:HG21	1.82	0.61
42:NC:220:GLU:O	42:NC:221:ARG:HB2	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:NJ:61:PRO:HD3	41:NJ:84:ILE:HG12	1.83	0.61
42:PI:71:GLU:HB2	42:PI:73:THR:HG23	1.81	0.61
41:QD:138:SER:HB3	41:QD:144:GLY:HA3	1.83	0.61
41:QD:290:THR:HA	41:QD:293:MET:HG2	1.81	0.61
42:QG:169:PHE:HD1	42:QG:202:PHE:HB3	1.66	0.61
41:QJ:266:PHE:HB3	41:QJ:370:ASN:HA	1.82	0.61
41:RB:324:LYS:HB2	42:RC:222:PRO:HD2	1.81	0.61
41:RD:178:THR:HB	41:RD:181:GLU:HB3	1.81	0.61
41:RF:143:THR:OG1	41:RF:144:GLY:N	2.33	0.61
41:RJ:421:GLU:HA	41:RJ:424:GLN:HE21	1.65	0.61
42:RK:154:MET:HB3	42:RK:197:HIS:HB3	1.82	0.61
42:SE:323:VAL:HG13	42:SE:373:ARG:HG2	1.82	0.61
42:TC:276:ILE:HD13	42:TC:284:GLU:HG3	1.82	0.61
42:UI:435:VAL:O	41:UJ:391:ARG:NH1	2.34	0.61
41:UJ:304:ASP:HB2	41:UJ:306:ARG:HD3	1.82	0.61
41:VD:11:GLN:NE2	41:VD:69:GLU:OE2	2.30	0.61
42:WM:7:VAL:HB	42:WM:137:ILE:HG12	1.81	0.61
41:WN:103:LYS:HA	41:WN:107:THR:HB	1.81	0.61
16:3D:244:ALA:O	42:VC:214:ARG:NH1	2.34	0.61
20:3O:248:ILE:HG23	20:3O:264:PHE:HB3	1.82	0.61
33:5X:214:SER:H	33:5X:217:GLN:HB2	1.65	0.61
34:6K:344:ASN:HA	34:6K:347:PHE:HD2	1.66	0.61
35:6Q:425:ILE:HG13	35:6Q:429:LYS:HD2	1.81	0.61
42:AI:326:LYS:HG3	41:AJ:212:PHE:HZ	1.64	0.61
41:BH:262:ARG:NH1	41:BH:417:ASP:OD2	2.34	0.61
42:DK:27:GLU:HG2	42:DK:361:THR:HG21	1.82	0.61
41:DL:330:MET:HG2	41:DL:349:VAL:HG11	1.83	0.61
42:DM:274:PRO:HG3	42:DM:291:ILE:HD12	1.82	0.61
42:EK:252:LEU:HA	42:EK:255:PHE:CD2	2.36	0.61
42:EM:11:GLN:HA	42:EM:74:VAL:HG21	1.82	0.61
41:GD:271:ALA:HB3	41:GD:272:PRO:HD3	1.83	0.61
42:GG:138:PHE:HZ	42:GG:235:VAL:HG21	1.65	0.61
42:GM:258:ASN:HB2	42:GM:352:LYS:HG2	1.82	0.61
41:HF:213:ARG:NH1	41:HF:214:THR:OG1	2.34	0.61
42:HG:252:LEU:HA	42:HG:255:PHE:HD2	1.64	0.61
41:IN:54:ALA:HB3	41:IN:58:LYS:HB3	1.83	0.61
41:IN:215:LEU:O	41:IN:216:LYS:C	2.36	0.61
42:JE:10:GLY:HA2	42:JE:145:THR:HB	1.81	0.61
41:LJ:282:ARG:NH2	41:LJ:292:GLN:OE1	2.34	0.61
42:MC:53:PHE:HB3	42:MC:61:HIS:HB3	1.83	0.61
41:MH:256:ASN:HD22	41:MH:350:LYS:HD2	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:NC:435:VAL:HA	41:ND:391:ARG:HH22	1.65	0.61
41:NL:189:VAL:HA	41:NL:192:LEU:HB3	1.82	0.61
42:PA:269:LEU:HD13	42:PA:381:THR:HB	1.81	0.61
42:PC:8:HIS:HB2	42:PC:67:PHE:HA	1.83	0.61
41:PJ:328:GLU:HA	41:PJ:331:LEU:HD23	1.83	0.61
41:RL:169:VAL:HG12	41:RL:202:ILE:HB	1.81	0.61
42:SI:262:TYR:HE1	41:SJ:393:ALA:HA	1.66	0.61
41:TF:351:THR:HB	42:TG:179:THR:HG23	1.82	0.61
42:UK:175:PRO:O	42:UK:394:LYS:NZ	2.34	0.61
41:UL:213:ARG:HB2	41:UL:297:LYS:HZ1	1.64	0.61
41:WJ:260:PHE:HB2	41:WJ:263:LEU:HD13	1.82	0.61
42:WK:11:GLN:HG3	42:WK:74:VAL:HG21	1.83	0.61
7:1T:201:GLN:HG3	42:MC:43:GLY:HA2	1.81	0.61
31:5G:126:LEU:HD13	31:5G:128:CYS:HB2	1.83	0.61
34:6B:123:ASP:HB3	34:6C:437:ARG:HH12	1.66	0.61
38:7H:205:THR:OG1	38:7H:206:ARG:N	2.34	0.61
42:BC:102:ASN:HB3	42:BC:105:ARG:HB2	1.82	0.61
41:BD:252:LYS:HG2	42:BE:100:ALA:HA	1.82	0.61
42:BI:67:PHE:HB3	42:BI:75:ILE:HD11	1.83	0.61
41:CJ:350:LYS:HA	42:CK:179:THR:O	2.01	0.61
41:DD:46:ARG:HH12	42:DE:73:THR:HG22	1.66	0.61
41:DL:170:VAL:HG21	41:DL:377:LEU:HD21	1.81	0.61
42:EK:100:ALA:O	42:EK:101:ASN:C	2.38	0.61
41:HJ:7:LEU:HB3	41:HJ:135:LEU:HD12	1.83	0.61
42:HK:316:CYS:HB3	42:HK:378:LEU:HB3	1.83	0.61
41:IN:310:TYR:HA	41:IN:371:SER:HA	1.83	0.61
42:MI:304:LYS:O	42:MI:390:ARG:NH2	2.34	0.61
41:NF:211:CYS:HA	41:NF:215:LEU:HB2	1.83	0.61
41:PH:4:ILE:HB	41:PH:131:GLN:HE22	1.64	0.61
41:PL:137:HIS:HB3	41:PL:168:SER:HB3	1.83	0.61
41:QB:318:ARG:HH12	41:QB:358:PRO:HG3	1.66	0.61
41:RF:248:ALA:HA	41:RF:252:LYS:HD2	1.81	0.61
42:SI:328:VAL:HG11	42:SI:355:ILE:HD11	1.82	0.61
41:SJ:32:PRO:HA	41:SJ:84:ILE:HD11	1.83	0.61
42:TE:120:ASP:OD1	42:TE:123:ARG:NH2	2.33	0.61
42:TE:437:MET:O	41:TF:391:ARG:NH2	2.33	0.61
41:TH:48:ASN:O	41:TH:62:ARG:NH1	2.34	0.61
41:TH:282:ARG:NH2	41:TH:292:GLN:OE1	2.34	0.61
42:TM:166:LYS:HB2	42:TM:199:ASP:H	1.66	0.61
41:UH:309:ARG:NH1	41:UH:339:SER:O	2.34	0.61
20:3P:10:GLN:NE2	42:KK:1:MET:O	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:5H:128:CYS:SG	31:5H:132:ARG:NH2	2.74	0.61
34:6L:51:ARG:HH22	34:6M:210:LEU:HD22	1.65	0.61
36:6Y:101:LEU:HD13	36:6Y:123:ALA:HB3	1.81	0.61
42:AK:71:GLU:HG2	42:AK:72:PRO:HD2	1.82	0.61
41:BB:323:MET:HB2	42:BC:223:THR:HA	1.83	0.61
41:BL:242:PHE:HB3	41:BL:356:ILE:HD13	1.82	0.61
41:CF:189:VAL:HG21	41:CF:415:MET:HG3	1.83	0.61
42:CM:34:GLY:HA3	42:CM:60:LYS:HD2	1.83	0.61
41:DB:174:LYS:NZ	41:DB:205:GLU:OE1	2.34	0.61
42:EM:276:ILE:HD13	42:EM:286:LEU:HD13	1.83	0.61
42:FG:402:ARG:NH1	42:FG:415:GLU:OE1	2.33	0.61
41:GF:207:LEU:HB3	41:GF:225:LEU:HD22	1.83	0.61
41:GL:252:LYS:HA	42:GM:100:ALA:HB1	1.83	0.61
42:HM:436:GLY:O	42:HM:437:MET:C	2.38	0.61
41:IF:407:GLU:HA	41:IF:410:GLU:HG3	1.83	0.61
42:IG:76:ASP:OD1	42:IG:79:ARG:NH1	2.33	0.61
42:IM:316:CYS:HA	42:IM:352:LYS:HB2	1.80	0.61
42:IM:362:VAL:HB	42:IM:370:LYS:HB3	1.83	0.61
41:IN:323:MET:O	41:IN:324:LYS:C	2.39	0.61
41:JJ:62:ARG:NH1	41:JJ:123:GLU:OE2	2.32	0.61
42:KE:28:HIS:HE1	42:KE:243:ARG:HD2	1.66	0.61
41:LD:334:GLN:HE22	41:LD:348:ASN:HB2	1.66	0.61
42:MK:320:ARG:HB3	42:MK:374:ALA:HB3	1.83	0.61
41:NL:141:GLY:O	41:NL:184:ASN:ND2	2.33	0.61
41:OF:256:ASN:HD21	41:OF:350:LYS:HD3	1.66	0.61
42:OG:262:TYR:OH	41:OH:391:ARG:HB2	2.01	0.61
42:OI:97:GLU:HB2	42:OI:110:ILE:HD13	1.82	0.61
42:PE:118:VAL:HG11	42:PE:149:PHE:HZ	1.66	0.61
42:PE:336:LYS:CD	42:PE:351:PHE:CE2	2.78	0.61
42:PG:63:PRO:HG2	42:PG:87:PHE:HA	1.83	0.61
42:QG:385:ALA:HA	42:QG:388:TRP:HD1	1.66	0.61
41:SF:174:LYS:HG3	41:SF:175:VAL:HG22	1.82	0.61
41:SH:173:PRO:HB3	41:SH:380:ARG:NH1	2.16	0.61
42:SI:171:ILE:HA	42:SI:204:VAL:O	2.00	0.61
41:SJ:284:LEU:HD21	41:SJ:363:MET:HB3	1.82	0.61
42:UG:261:PRO:HB2	42:UG:262:TYR:HD1	1.65	0.61
42:UK:107:HIS:HD2	42:UK:152:LEU:HB2	1.64	0.61
42:WC:11:GLN:HG2	42:WC:74:VAL:HG21	1.83	0.61
41:WL:139:LEU:HD22	41:WL:170:VAL:HG23	1.83	0.61
11:2L:234:ARG:NH2	41:UF:276:ARG:O	2.34	0.60
19:3J:29:GLN:HB2	42:LC:47:ASP:HB3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:3P:238:HIS:HB2	20:3P:247:GLU:HB3	1.83	0.60
25:4I:44:ARG:NH1	25:4I:45:THR:O	2.34	0.60
32:5L:316:ARG:NH2	32:5M:60:ASN:OD1	2.34	0.60
33:5S:75:LYS:HD2	33:5S:180:MET:HG3	1.83	0.60
35:6Q:50:LYS:HE2	35:6R:169:ARG:HB2	1.82	0.60
35:6W:101:ARG:O	35:6W:105:GLU:N	2.32	0.60
41:BD:45:GLU:HG3	41:BD:46:ARG:HG2	1.83	0.60
42:BE:129:CYS:SG	42:BE:130:THR:N	2.74	0.60
41:BJ:324:LYS:NZ	41:BJ:328:GLU:OE1	2.24	0.60
42:CG:51:THR:HG21	42:CG:243:ARG:HG2	1.82	0.60
41:CJ:235:GLY:HA2	41:CJ:238:THR:HG23	1.83	0.60
41:DJ:87:PRO:O	41:DJ:88:ASP:HB2	2.00	0.60
41:ED:378:PHE:HB3	41:ED:415:MET:SD	2.41	0.60
42:EK:67:PHE:HB2	42:EK:92:LEU:HD23	1.82	0.60
42:FK:343:PHE:HZ	42:FK:351:PHE:CZ	2.19	0.60
42:GI:273:ALA:HB2	42:GI:295:CYS:HB3	1.83	0.60
42:HC:220:GLU:O	42:HC:221:ARG:C	2.38	0.60
41:HD:202:ILE:HD13	41:HD:268:PRO:HG3	1.83	0.60
42:HE:425:MET:HA	42:HE:428:LEU:HB3	1.82	0.60
42:HM:311:LYS:HA	42:HM:342:GLN:HG2	1.81	0.60
41:MN:285:THR:HB	41:MN:287:PRO:HD2	1.83	0.60
41:MN:391:ARG:O	41:MN:392:LYS:C	2.39	0.60
42:NA:335:ILE:HA	42:NA:338:LYS:HD2	1.83	0.60
42:NG:323:VAL:HG13	42:NG:373:ARG:HG2	1.83	0.60
42:OC:264:ARG:NH1	42:OC:431:ASP:OD2	2.34	0.60
41:PF:244:GLY:HA2	41:PF:355:ASP:HB2	1.83	0.60
42:PG:227:LEU:HD21	45:PG:501:GTP:HN21	1.65	0.60
42:PI:349:THR:HG21	41:PJ:182:PRO:CD	2.31	0.60
42:QC:139:HIS:HB2	42:QC:150:THR:HG21	1.83	0.60
41:QF:179:VAL:HG23	41:QF:180:VAL:HG13	1.83	0.60
41:QF:314:ALA:HB3	41:QF:368:ILE:HB	1.83	0.60
42:QG:217:LEU:HD21	42:QG:368:LEU:HD23	1.82	0.60
41:QJ:324:LYS:HB2	42:QK:222:PRO:HD2	1.81	0.60
42:SI:52:PHE:O	42:SI:64:ARG:HB2	2.00	0.60
42:TK:75:ILE:HD12	42:TK:94:THR:HA	1.82	0.60
42:UE:98:ASP:O	42:UE:105:ARG:NH2	2.34	0.60
41:WD:86:ARG:HG2	41:WD:89:ASN:H	1.66	0.60
2:1D:180:LEU:HD21	26:4K:233:LEU:HD23	1.82	0.60
3:1I:269:HIS:CE1	42:TG:370:LYS:NZ	2.69	0.60
14:2X:136:ARG:HH21	41:MH:196:THR:H	1.47	0.60
32:5N:108:PRO:HG3	32:5N:397:ILE:HG23	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:5V:245:LEU:HD22	34:6A:327:ASN:ND2	2.15	0.60
33:5W:331:ARG:HH22	33:5X:208:VAL:HG13	1.65	0.60
33:5W:399:VAL:HG21	34:6L:348:THR:HG23	1.82	0.60
34:6C:160:ILE:HG23	34:6C:254:LEU:HD13	1.83	0.60
37:7E:123:SER:OG	37:7E:124:ILE:N	2.32	0.60
41:AH:293:MET:HE3	41:AH:367:PHE:HB2	1.82	0.60
41:BF:103:LYS:NZ	41:BF:401:GLU:OE2	2.34	0.60
41:DH:138:SER:HA	41:DH:169:VAL:HG23	1.83	0.60
41:DH:257:MET:O	41:DH:259:PRO:HD3	2.01	0.60
42:DM:63:PRO:HB2	42:DM:91:GLN:HE22	1.67	0.60
42:EC:377:MET:SD	42:EC:379:SER:OG	2.54	0.60
41:EH:296:ALA:HA	41:EH:299:MET:HG2	1.83	0.60
42:EI:2:ARG:NH1	42:EI:242:LEU:O	2.33	0.60
42:FE:307:PRO:HB2	42:FE:312:TYR:HE1	1.64	0.60
41:FF:61:PRO:HD3	41:FF:84:ILE:HG12	1.83	0.60
41:FH:23:VAL:HG21	41:FH:231:ALA:HB1	1.82	0.60
41:FJ:324:LYS:HZ1	42:FK:223:THR:HA	1.64	0.60
42:IC:51:THR:HG21	42:IC:243:ARG:HG2	1.82	0.60
41:KD:372:THR:HG21	41:KD:426:GLN:HB2	1.82	0.60
41:LF:314:ALA:HB3	41:LF:368:ILE:HB	1.83	0.60
41:MF:3:GLU:HA	41:MF:49:VAL:HA	1.82	0.60
41:MJ:54:ALA:HB3	41:MJ:58:LYS:HB2	1.82	0.60
41:NH:89:ASN:HA	41:NH:119:VAL:HG11	1.83	0.60
42:PG:144:GLY:N	45:PG:501:GTP:O1A	2.26	0.60
42:PG:306:ASP:HB3	42:PG:309:HIS:CE1	2.35	0.60
41:PH:322:SER:O	41:PH:325:GLU:N	2.34	0.60
42:PI:266:HIS:O	42:PI:268:PRO:HD3	2.02	0.60
41:PL:68:LEU:HB3	41:PL:96:GLY:HA2	1.82	0.60
41:QF:334:GLN:NE2	41:QF:348:ASN:OD1	2.34	0.60
42:SC:4:CYS:HB2	42:SC:52:PHE:CE1	2.36	0.60
41:SD:102:ALA:HB2	41:SD:398:TYR:HD1	1.65	0.60
41:SH:186:THR:HG23	41:SH:415:MET:HG2	1.82	0.60
41:SL:394:PHE:HB3	41:SL:397:TRP:HZ3	1.64	0.60
42:TE:27:GLU:OE2	42:TE:243:ARG:NH2	2.34	0.60
42:TM:66:VAL:HG22	42:TM:121:ARG:HG3	1.82	0.60
41:VF:2:ARG:HB3	41:VF:131:GLN:HB2	1.83	0.60
41:VH:2:ARG:HE	41:VH:240:LEU:HD12	1.66	0.60
41:WH:270:PHE:HB3	41:WH:273:LEU:HD11	1.83	0.60
41:WL:27:GLU:OE1	41:WL:241:ARG:NH2	2.34	0.60
42:WM:238:ILE:HD12	42:WM:378:LEU:HD11	1.83	0.60
33:5X:414:THR:O	33:5X:417:ARG:NH1	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:6L:195:ALA:HA	34:6L:477:ARG:HH22	1.65	0.60
34:6L:418:LEU:O	34:6L:422:ASN:ND2	2.34	0.60
35:6V:164:HIS:O	35:6V:166:ASP:N	2.34	0.60
41:CD:132:GLY:HA3	41:CD:163:ILE:HG22	1.82	0.60
42:CE:212:ILE:HD11	42:CE:300:ASN:HA	1.83	0.60
42:CG:195:LEU:HD21	42:CG:428:LEU:HD13	1.82	0.60
42:CG:344:VAL:HG11	42:CG:346:TRP:CE2	2.37	0.60
42:CG:401:LYS:O	42:CG:402:ARG:C	2.39	0.60
41:DH:248:ALA:HA	41:DH:252:LYS:HD3	1.83	0.60
41:DL:323:MET:HA	41:DL:326:VAL:HG12	1.83	0.60
42:EG:326:LYS:HE2	41:EH:220:PRO:HD2	1.81	0.60
42:FG:9:VAL:HG22	42:FG:68:VAL:HB	1.82	0.60
41:FL:271:ALA:HB1	41:FL:289:LEU:HG	1.83	0.60
41:GD:101:TRP:HE1	41:GD:145:SER:HG	1.47	0.60
41:GF:375:GLN:HE21	41:GF:422:TYR:HB2	1.67	0.60
41:HF:252:LYS:HG3	42:HG:100:ALA:HA	1.81	0.60
42:IC:195:LEU:HD11	42:IC:428:LEU:HD22	1.84	0.60
42:IG:243:ARG:HB2	42:IG:244:PHE:HD1	1.65	0.60
42:II:31:GLN:HE21	42:II:37:PRO:HG3	1.66	0.60
41:JD:323:MET:HB2	41:JD:326:VAL:HG22	1.82	0.60
42:MG:259:LEU:HD21	42:MG:378:LEU:HB2	1.83	0.60
42:NI:273:ALA:HB3	42:NI:375:VAL:HG23	1.82	0.60
42:OA:322:ASP:O	42:OA:373:ARG:NE	2.30	0.60
42:OC:140:SER:HA	42:OC:171:ILE:HG12	1.83	0.60
42:PA:261:PRO:HA	41:PB:394:PHE:HD1	1.66	0.60
42:PA:269:LEU:HD11	42:PA:384:ILE:HB	1.83	0.60
42:PG:186:ASN:HA	42:PG:189:LEU:HD11	1.82	0.60
42:PG:261:PRO:O	42:PG:262:TYR:C	2.39	0.60
42:PG:406:HIS:HA	42:PG:409:VAL:HG12	1.82	0.60
42:PG:408:TYR:C	42:PG:410:GLY:H	2.05	0.60
42:PI:26:LEU:HD23	42:PI:363:VAL:HG12	1.83	0.60
42:PI:148:GLY:O	42:PI:150:THR:N	2.34	0.60
42:PI:279:GLU:C	42:PI:281:ALA:H	2.05	0.60
42:PK:104:ALA:HA	42:PK:108:TYR:HD2	1.66	0.60
42:QG:323:VAL:HG11	42:QG:355:ILE:HD12	1.83	0.60
41:QL:272:PRO:HG3	41:QL:364:SER:HB2	1.82	0.60
42:RC:11:GLN:HG3	42:RC:74:VAL:HG11	1.83	0.60
42:RE:5:ILE:HG13	42:RE:64:ARG:HG2	1.82	0.60
41:RH:165:ASN:HA	41:RH:198:GLU:HB2	1.81	0.60
41:RL:164:MET:H	41:RL:197:ASP:HB2	1.65	0.60
42:TG:222:PRO:HB3	42:TG:226:ASN:HD21	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:UE:174:ALA:HB1	42:UE:207:GLU:HG2	1.82	0.60
42:UI:70:LEU:HD21	42:UI:110:ILE:HG23	1.82	0.60
41:UJ:135:LEU:HD22	41:UJ:152:ILE:HD11	1.81	0.60
42:UK:392:ASP:HB3	42:UK:422:ARG:HH12	1.66	0.60
20:3N:67:PHE:HB2	20:3N:90:ILE:HB	1.83	0.60
25:4I:47:LEU:HD13	41:IH:79:GLY:HA3	1.83	0.60
27:4O:184:GLU:HG3	27:4O:236:GLY:HA2	1.84	0.60
33:5V:263:PHE:CE2	34:6A:159:GLU:HG3	2.36	0.60
33:5Y:214:SER:H	33:5Y:217:GLN:HB2	1.65	0.60
41:AD:26:ASP:O	41:AD:359:ARG:NH1	2.35	0.60
42:AK:258:ASN:HB2	42:AK:352:LYS:HG3	1.83	0.60
41:BD:12:CYS:HB3	41:BD:138:SER:HB2	1.83	0.60
41:BD:317:PHE:HB3	41:BD:321:MET:SD	2.41	0.60
41:BH:202:ILE:HD13	41:BH:229:VAL:HG21	1.84	0.60
42:CE:274:PRO:HB3	42:CE:291:ILE:HD11	1.84	0.60
41:DH:198:GLU:HB2	41:DH:200:TYR:HE1	1.66	0.60
42:DI:180:ALA:HB3	42:DI:183:GLU:HB2	1.83	0.60
42:EC:254:GLU:HB3	42:EC:352:LYS:HE2	1.83	0.60
42:EE:108:TYR:CZ	42:EE:413:MET:HB3	2.36	0.60
41:EJ:252:LYS:HE3	42:EK:101:ASN:CB	2.31	0.60
41:FH:238:THR:O	41:FH:242:PHE:N	2.31	0.60
42:FI:311:LYS:HB3	42:FI:344:VAL:HG22	1.82	0.60
42:FK:156:ARG:HA	42:FK:159:VAL:HG22	1.84	0.60
42:FM:172:TYR:HD2	42:FM:205:ASP:HB3	1.65	0.60
42:HC:259:LEU:HD11	42:HC:378:LEU:HB2	1.83	0.60
42:HI:174:ALA:HB1	42:HI:175:PRO:HD2	1.83	0.60
42:KM:102:ASN:HB3	42:KM:105:ARG:HG3	1.83	0.60
41:LF:324:LYS:HD2	42:LG:210:TYR:HB3	1.83	0.60
42:LK:136:LEU:HD22	42:LK:169:PHE:HE2	1.66	0.60
42:OA:317:LEU:HB2	42:OA:353:VAL:HG12	1.83	0.60
42:OC:70:LEU:HD12	42:OC:99:ALA:HB2	1.82	0.60
41:PF:25:SER:HB2	41:PF:30:ILE:HB	1.83	0.60
41:PJ:107:THR:O	41:PJ:110:ALA:N	2.33	0.60
41:QB:412:GLU:O	41:QB:416:ASN:N	2.31	0.60
41:QD:187:LEU:HD21	41:QD:408:PHE:HE1	1.66	0.60
41:QH:5:VAL:HG22	41:QH:62:ARG:HH11	1.64	0.60
42:SK:180:ALA:HB3	42:SK:183:GLU:HB2	1.82	0.60
41:SL:193:VAL:HG23	41:SL:265:PHE:HE2	1.66	0.60
41:SL:320:ARG:CA	41:SL:355:ASP:HA	2.30	0.60
41:UF:122:LYS:NZ	41:VF:291:GLN:OE1	2.33	0.60
41:UH:318:ARG:HD3	41:UH:357:PRO:HA	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:WN:318:ARG:HG3	41:WN:354:CYS:HB3	1.81	0.60
25:4J:262:ILE:HD13	25:4J:325:PHE:HE2	1.67	0.60
34:6M:348:THR:HA	34:6M:351:ILE:HG12	1.84	0.60
35:6U:360:ARG:NH2	35:6U:371:ASP:OD2	2.34	0.60
41:BD:271:ALA:HB3	41:BD:272:PRO:HD3	1.83	0.60
42:BI:286:LEU:HD13	42:BI:371:VAL:HG12	1.83	0.60
42:CG:88:HIS:HD2	42:CG:90:GLU:H	1.50	0.60
41:DH:139:LEU:HB2	41:DH:171:PRO:HD2	1.82	0.60
41:ED:137:HIS:CE1	41:ED:168:SER:HB2	2.37	0.60
41:EF:256:ASN:HD21	42:EG:101:ASN:HD22	1.49	0.60
42:FI:251:ASP:H	42:FI:254:GLU:HB2	1.65	0.60
42:FI:260:VAL:HG23	41:FJ:397:TRP:HZ2	1.66	0.60
42:FK:288:VAL:HG11	42:FK:327:ASP:CB	2.31	0.60
41:FL:130:LEU:O	41:FL:131:GLN:C	2.39	0.60
41:GF:221:THR:HG23	41:GF:223:GLY:H	1.67	0.60
42:GM:328:VAL:HG21	42:GM:355:ILE:HD11	1.83	0.60
41:HF:64:VAL:HG21	41:HF:120:VAL:HG22	1.83	0.60
41:HH:178:THR:HG22	41:HH:180:VAL:H	1.66	0.60
41:IL:253:LEU:HB3	41:IL:257:MET:HE2	1.82	0.60
42:LK:311:LYS:H	42:LK:382:THR:HB	1.66	0.60
42:MK:191:THR:HG23	42:MK:421:ALA:HB1	1.84	0.60
41:NF:3:GLU:HG3	41:NF:127:CYS:HB2	1.84	0.60
42:NI:338:LYS:HB3	42:NI:341:ILE:HG13	1.83	0.60
41:NJ:73:MET:HA	41:NJ:76:VAL:HG12	1.84	0.60
42:NK:262:TYR:HB2	42:NK:265:ILE:HD12	1.84	0.60
42:QE:12:ALA:HA	42:QE:15:GLN:HG3	1.81	0.60
41:QJ:375:GLN:HB2	41:QJ:379:LYS:HZ1	1.65	0.60
42:RK:88:HIS:NE2	42:RK:90:GLU:OE2	2.35	0.60
41:TD:313:VAL:HB	41:TD:349:VAL:HG22	1.83	0.60
41:TJ:113:VAL:HA	41:TJ:116:VAL:HG12	1.82	0.60
42:VK:311:LYS:H	42:VK:382:THR:HG22	1.66	0.60
21:3T:106:LYS:HE3	21:3T:111:THR:HG21	1.83	0.60
22:3Z:95:PHE:HE2	41:AH:59:TYR:HE1	1.49	0.60
33:5X:109:PRO:HA	33:5X:397:LEU:HD21	1.84	0.60
34:6K:99:TRP:NE1	34:6L:209:ASP:OD2	2.34	0.60
41:CD:66:VAL:HG23	41:CD:91:VAL:HG13	1.83	0.60
41:DD:8:GLN:NE2	41:DD:13:GLY:O	2.32	0.60
42:DG:240:ALA:HB1	42:DG:356:ASN:HD22	1.66	0.60
41:DL:74:ASP:HA	41:DL:77:ARG:HG2	1.82	0.60
41:EH:309:ARG:HH11	41:EH:342:VAL:HA	1.66	0.60
42:FE:216:ASN:HD21	42:FE:275:VAL:HG13	1.64	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:FH:104:GLY:HA2	41:FH:108:GLU:HB2	1.84	0.60
42:FM:66:VAL:HG11	42:FM:118:VAL:HG23	1.83	0.60
42:GC:332:ILE:HD13	41:GD:175:VAL:HG13	1.84	0.60
41:GH:26:ASP:OD1	41:GH:359:ARG:NH2	2.34	0.60
41:GL:73:MET:HA	41:GL:76:VAL:HG12	1.84	0.60
42:HC:313:MET:HB3	42:HC:346:TRP:CZ2	2.35	0.60
41:HD:73:MET:HE2	41:HD:90:PHE:HD1	1.65	0.60
42:HG:220:GLU:O	42:HG:221:ARG:C	2.40	0.60
41:HH:152:ILE:HG12	41:HH:166:THR:HG21	1.83	0.60
41:HJ:311:LEU:HA	41:HJ:342:VAL:HG21	1.84	0.60
41:IJ:344:TRP:HA	42:IK:397:LEU:HD23	1.82	0.60
42:IK:286:LEU:O	42:IK:373:ARG:NH1	2.35	0.60
41:JH:68:LEU:HD23	41:JH:143:THR:HG23	1.83	0.60
42:JK:277:SER:HB2	42:JK:279:GLU:HG2	1.82	0.60
41:KN:49:VAL:HG11	41:KN:241:ARG:HG2	1.84	0.60
41:MD:113:VAL:HG23	41:MD:151:LEU:HD22	1.82	0.60
41:MF:171:PRO:HB3	41:MF:181:GLU:HG3	1.84	0.60
42:MM:276:ILE:HD11	42:MM:286:LEU:HD11	1.84	0.60
41:MN:377:LEU:HD13	41:MN:380:ARG:HH21	1.66	0.60
41:NL:239:CYS:HG	41:NL:249:ASP:N	1.99	0.60
42:OE:271:THR:HG22	42:OE:301:GLN:HA	1.84	0.60
42:OG:254:GLU:HB3	41:OH:98:GLY:HA2	1.83	0.60
42:PI:204:VAL:HG13	42:PI:302:MET:HG3	1.82	0.60
41:PJ:324:LYS:HB3	42:PK:222:PRO:HD2	1.83	0.60
42:QI:27:GLU:HB2	42:QI:244:PHE:HZ	1.67	0.60
42:QK:27:GLU:HA	42:QK:361:THR:HG21	1.83	0.60
42:QK:104:ALA:HA	42:QK:107:HIS:HB3	1.84	0.60
42:RG:205:ASP:HB3	42:RG:303:VAL:HA	1.84	0.60
41:SH:138:SER:O	41:SH:169:VAL:N	2.35	0.60
42:SI:2:ARG:O	42:SI:51:THR:HA	2.01	0.60
42:SI:229:ARG:HG3	42:SI:366:GLY:HA2	1.81	0.60
41:TH:226:ASN:HD21	43:TH:501:GDP:HN1	1.48	0.60
41:TH:351:THR:H	42:TI:179:THR:HG23	1.67	0.60
41:TL:170:VAL:HG21	41:TL:377:LEU:HD11	1.83	0.60
42:TM:273:ALA:HB1	42:TM:291:ILE:HB	1.84	0.60
42:UG:439:SER:HA	41:UH:391:ARG:HH21	1.66	0.60
41:VJ:344:TRP:HB2	42:VK:401:LYS:HD3	1.81	0.60
42:VM:50:ASN:O	42:VM:64:ARG:NH1	2.35	0.60
42:WE:188:ILE:HG23	42:WE:425:MET:HE3	1.84	0.60
42:WI:88:HIS:HB3	42:WI:91:GLN:HB3	1.84	0.60
2:1E:67:ARG:NH1	26:4L:108:GLU:OE2	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:1I:51:ARG:NH1	21:3V:243:ASP:OD1	2.32	0.60
9:2D:412:SER:HA	42:II:219:ILE:HG22	1.83	0.60
11:2L:252:ARG:NH1	42:UE:372:GLN:HE22	1.95	0.60
24:4F:133:MET:SD	24:4F:137:ARG:NH2	2.75	0.60
29:4Y:111:LEU:HD21	29:4Y:114:PRO:HB3	1.83	0.60
33:5W:123:ARG:NH1	33:5W:127:ASP:O	2.34	0.60
33:5X:258:ARG:HH12	33:5X:397:LEU:HD22	1.65	0.60
35:6R:294:ARG:HG3	35:6R:440:VAL:HG22	1.84	0.60
35:6T:399:GLU:HB3	35:6T:403:ARG:HH12	1.66	0.60
41:AD:237:THR:OG1	41:AD:241:ARG:NH1	2.34	0.60
41:AD:330:MET:HB3	41:AD:349:VAL:HG21	1.84	0.60
41:AH:283:ALA:HA	41:KJ:55:THR:HG23	1.84	0.60
42:BC:19:ALA:HA	42:BC:22:GLU:HG2	1.84	0.60
41:BF:212:PHE:HB3	41:BF:213:ARG:HD3	1.83	0.60
41:DJ:21:TRP:CE3	41:DJ:24:ILE:HD11	2.37	0.60
41:EH:30:ILE:HD12	41:EH:59:TYR:HB2	1.83	0.60
41:EJ:67:ASP:O	41:EJ:69:GLU:N	2.35	0.60
41:EJ:208:TYR:O	41:EJ:212:PHE:N	2.35	0.60
42:FK:384:ILE:HD12	42:FK:387:ALA:HB3	1.82	0.60
41:GH:245:GLN:O	42:GI:11:GLN:NE2	2.29	0.60
41:HH:8:GLN:HB3	41:HH:14:ASN:HD22	1.65	0.60
41:HJ:165:ASN:HB2	41:HJ:200:TYR:HE2	1.65	0.60
41:IF:236:VAL:HG22	41:IF:368:ILE:HD11	1.84	0.60
41:KH:1:MET:N	41:KH:48:ASN:OD1	2.34	0.60
41:KL:163:ILE:HG21	41:KL:251:ARG:HG2	1.83	0.60
42:LG:60:LYS:NZ	42:LG:85:GLN:O	2.34	0.60
42:OA:154:MET:HB2	42:OA:166:LYS:HZ2	1.65	0.60
42:OA:258:ASN:HB2	41:OB:179:VAL:HB	1.84	0.60
41:OF:305:PRO:HB3	41:OF:310:TYR:HE1	1.66	0.60
41:OJ:229:VAL:HA	41:OJ:300:MET:HE1	1.83	0.60
41:OL:385:PHE:HZ	41:OL:408:PHE:HB3	1.66	0.60
42:PG:103:TYR:CG	42:PG:189:LEU:HD13	2.37	0.60
42:PI:277:SER:O	42:PI:369:ALA:HB2	2.02	0.60
42:PK:7:VAL:HG13	42:PK:66:VAL:HB	1.83	0.60
41:PL:8:GLN:HG3	41:PL:65:LEU:HA	1.83	0.60
42:QC:359:PRO:HB3	42:QC:372:GLN:HA	1.83	0.60
41:QJ:105:HIS:HA	41:QJ:150:LEU:HG	1.84	0.60
41:SJ:196:THR:OG1	41:SJ:264:HIS:NE2	2.33	0.60
42:SK:213:CYS:HA	42:SK:217:LEU:HB2	1.82	0.60
41:SL:256:ASN:HD22	42:SM:101:ASN:HD22	1.48	0.60
41:TH:161:ASP:OD1	41:TH:162:ARG:NH1	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:TL:347:ASN:ND2	42:TM:178:SER:O	2.31	0.60
42:UC:326:LYS:HZ1	41:UD:219:THR:HA	1.64	0.60
41:UL:11:GLN:HA	41:UL:72:THR:HG21	1.83	0.60
41:UL:210:ILE:HG13	41:UL:298:ASN:HA	1.81	0.60
42:VI:323:VAL:HG23	42:VI:355:ILE:HG23	1.84	0.60
41:VL:237:THR:OG1	41:VL:241:ARG:NH2	2.35	0.60
42:WM:170:SER:OG	42:WM:203:MET:SD	2.59	0.60
21:3T:31:VAL:HG23	21:3T:35:LYS:HE2	1.84	0.60
22:4C:184:TYR:O	41:CF:45:GLU:HA	2.00	0.60
34:6A:160:ILE:HG23	34:6A:254:LEU:HD22	1.83	0.60
34:6G:458:ASP:OD1	34:6H:106:ASN:ND2	2.35	0.60
34:6H:361:ILE:HG23	34:6H:455:LEU:HD22	1.82	0.60
41:AL:60:VAL:HG21	41:AL:86:ARG:HG2	1.84	0.60
41:AL:73:MET:HG3	41:AL:92:PHE:HB3	1.82	0.60
41:CB:202:ILE:HD12	41:CB:302:ALA:H	1.65	0.60
42:DK:262:TYR:HE1	41:DL:393:ALA:HA	1.66	0.60
42:EC:292:THR:HG21	42:EC:331:ALA:HB1	1.82	0.60
42:FI:271:THR:HB	42:FI:377:MET:HB3	1.83	0.60
41:FJ:330:MET:HE2	41:FJ:349:VAL:HG21	1.84	0.60
41:GJ:259:PRO:O	42:GK:406:HIS:NE2	2.35	0.60
42:GM:104:ALA:HA	42:GM:108:TYR:CD2	2.34	0.60
42:HK:215:ARG:HH12	42:HK:299:ALA:HB1	1.67	0.60
41:JD:61:PRO:HG3	41:JD:84:ILE:HG23	1.83	0.60
41:JH:238:THR:HG21	41:JH:318:ARG:HG2	1.84	0.60
41:KD:318:ARG:NH1	41:KD:356:ILE:O	2.32	0.60
41:KN:139:LEU:HD22	41:KN:170:VAL:HG12	1.82	0.60
41:MD:313:VAL:HG22	41:MD:367:PHE:HE2	1.67	0.60
42:MM:257:THR:HA	41:MN:397:TRP:CE2	2.37	0.60
42:NC:273:ALA:HB2	42:NC:375:VAL:HG13	1.84	0.60
42:NG:204:VAL:HG12	42:NG:209:ILE:HD11	1.83	0.60
41:QB:131:GLN:HE22	41:QB:250:LEU:HB2	1.67	0.60
42:QE:104:ALA:HB1	42:QE:108:TYR:HB2	1.83	0.60
42:QG:60:LYS:HE2	42:RG:283:HIS:HA	1.83	0.60
41:QJ:244:GLY:HA2	41:QJ:355:ASP:HB2	1.83	0.60
41:QL:380:ARG:HE	41:QL:384:GLN:HG2	1.66	0.60
42:RC:12:ALA:O	42:RC:16:ILE:N	2.32	0.60
41:RF:99:ASN:HB3	41:RF:178:THR:HG21	1.82	0.60
41:RJ:136:THR:HG21	41:RJ:233:MET:HE2	1.82	0.60
42:SE:212:ILE:HD11	42:SE:302:MET:HA	1.83	0.60
11:2K:476:LEU:HB3	42:VE:282:TYR:HE1	1.67	0.60
20:3N:101:VAL:HG23	20:3N:116:PHE:HB3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:6B:405:ARG:O	34:6B:406:ARG:C	2.40	0.60
45:AF:502:GTP:O2'	42:AG:206:ASN:ND2	2.35	0.60
41:CD:238:THR:HG21	41:CD:318:ARG:HG2	1.84	0.60
41:DB:260:PHE:HD2	42:DC:406:HIS:HE1	1.47	0.60
42:FC:376:CYS:SG	42:FC:377:MET:N	2.75	0.60
42:FK:99:ALA:O	42:FK:100:ALA:C	2.39	0.60
42:GM:252:LEU:HA	42:GM:255:PHE:HD1	1.67	0.60
42:HC:122:ILE:HA	42:HC:125:LEU:HD12	1.84	0.60
42:HM:107:HIS:HA	42:HM:152:LEU:HD23	1.83	0.60
41:JH:5:VAL:HB	41:JH:133:PHE:HD1	1.67	0.60
42:KE:172:TYR:HB2	42:KE:203:MET:HB3	1.83	0.60
42:LC:53:PHE:O	42:LC:64:ARG:NH1	2.35	0.60
42:LK:51:THR:HG21	42:LK:243:ARG:HG2	1.83	0.60
42:MI:53:PHE:HB3	42:MI:61:HIS:HB3	1.83	0.60
42:MM:402:ARG:HG2	42:MM:405:VAL:HG11	1.82	0.60
41:MN:330:MET:HG2	41:MN:351:THR:HB	1.84	0.60
41:NB:242:PHE:HB3	41:NB:356:ILE:HG13	1.82	0.60
41:NF:133:PHE:HZ	41:NF:159:TYR:HB2	1.67	0.60
42:PC:107:HIS:HA	42:PC:152:LEU:HG	1.83	0.60
41:PH:345:ILE:HD12	42:PI:404:PHE:HE2	1.65	0.60
41:RF:144:GLY:N	43:RF:501:GDP:O2B	2.35	0.60
41:RJ:103:LYS:HA	41:RJ:107:THR:H	1.66	0.60
42:SK:10:GLY:HA2	42:SK:145:THR:HG23	1.83	0.60
41:TF:334:GLN:NE2	41:TF:346:PRO:O	2.33	0.60
42:UE:271:THR:HB	42:UE:377:MET:HB3	1.84	0.60
41:UF:3:GLU:HB3	41:UF:130:LEU:HD23	1.84	0.60
42:UG:180:ALA:HB3	42:UG:183:GLU:HB2	1.83	0.60
41:UH:256:ASN:HD21	42:UI:182:VAL:HG22	1.67	0.60
41:VD:203:ASP:OD2	41:VD:302:ALA:N	2.35	0.60
41:VJ:235:GLY:HA3	41:VJ:366:THR:HG21	1.83	0.60
20:3N:8:LYS:HB2	42:KC:48:SER:HB3	1.83	0.60
22:3X:197:PRO:HG3	42:DC:279:GLU:HG2	1.84	0.60
23:4D:31:GLN:OE1	41:UJ:276:ARG:NH2	2.25	0.60
27:4S:48:MET:HB2	27:4S:51:SER:HB3	1.84	0.60
28:4W:100:ASN:O	41:HB:291:GLN:NE2	2.34	0.60
34:6B:413:ARG:HA	34:6B:417:GLN:HG2	1.83	0.60
34:6C:196:ARG:HH11	34:6C:223:VAL:HB	1.66	0.60
34:6F:389:LYS:HD3	34:6F:430:THR:HG22	1.83	0.60
35:6S:200:GLN:HA	35:6S:203:LEU:HD12	1.84	0.60
35:6V:142:LEU:HA	35:6V:190:LEU:HD13	1.84	0.60
40:7N:291:GLU:HG3	42:IG:79:ARG:HD3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:AH:198:GLU:HG2	41:AH:266:PHE:HE2	1.65	0.60
42:BC:27:GLU:OE1	42:BC:243:ARG:NH2	2.35	0.60
41:CD:256:ASN:HB3	42:CE:181:VAL:HG12	1.84	0.60
42:CE:278:ALA:HA	42:CE:369:ALA:HB2	1.82	0.60
42:CK:69:ASP:HA	42:CK:145:THR:HG21	1.82	0.60
42:CM:250:VAL:HG21	42:CM:318:LEU:HD22	1.84	0.60
42:DE:237:SER:OG	42:DE:376:CYS:SG	2.55	0.60
41:DF:130:LEU:O	41:DF:162:ARG:NH2	2.34	0.60
42:DI:1:MET:N	42:DI:130:THR:OG1	2.34	0.60
42:EC:388:TRP:HA	42:EC:391:LEU:HB3	1.83	0.60
41:ED:137:HIS:O	41:ED:168:SER:HA	2.01	0.60
41:EH:101:TRP:NE1	41:EH:188:SER:OG	2.29	0.60
42:EK:217:LEU:HD13	42:EK:367:ASP:HB3	1.82	0.60
42:FC:140:SER:C	42:FC:142:GLY:H	2.04	0.60
41:GH:67:ASP:OD1	41:GH:68:LEU:N	2.34	0.60
41:GJ:347:ASN:O	42:GK:181:VAL:HG23	2.02	0.60
42:HC:204:VAL:HG11	42:HC:231:ILE:HD12	1.84	0.60
42:HE:199:ASP:OD1	42:HE:256:GLN:NE2	2.34	0.60
42:HG:151:SER:HA	42:HG:193:THR:HG21	1.84	0.60
42:HG:265:ILE:HG21	42:HG:435:VAL:HG21	1.83	0.60
41:HJ:44:LEU:O	41:HJ:45:GLU:C	2.41	0.60
42:IC:51:THR:HG23	42:IC:52:PHE:HD1	1.65	0.60
41:IH:196:THR:HG21	41:IH:199:THR:HB	1.84	0.60
42:II:406:HIS:HA	42:II:409:VAL:HG12	1.84	0.60
42:JI:158:SER:OG	42:JI:166:LYS:NZ	2.34	0.60
42:JK:31:GLN:O	42:JK:33:ASP:N	2.34	0.60
42:KK:228:ASN:OD1	45:KK:501:GTP:N1	2.33	0.60
42:KM:387:ALA:HA	42:KM:390:ARG:HD2	1.82	0.60
42:MM:105:ARG:HG2	42:MM:411:GLU:HG3	1.84	0.60
42:MM:180:ALA:HB3	42:MM:183:GLU:HB2	1.84	0.60
42:OE:105:ARG:NH1	42:OE:411:GLU:OE2	2.31	0.60
42:OE:286:LEU:HB3	42:OE:291:ILE:HD11	1.84	0.60
42:PC:70:LEU:HD23	42:PC:95:GLY:HA3	1.84	0.60
42:PG:263:PRO:HD3	41:PH:396:HIS:HB2	1.83	0.60
41:PJ:31:ASP:O	41:PJ:33:THR:N	2.35	0.60
42:RG:4:CYS:SG	42:RG:133:GLN:NE2	2.74	0.60
42:SI:353:VAL:HB	41:SJ:177:ASP:HB2	1.82	0.60
42:TI:14:VAL:HG21	42:TI:74:VAL:HG13	1.83	0.60
41:TL:246:LEU:HD13	45:TM:501:GTP:H8	1.67	0.60
42:WI:66:VAL:HG21	42:WI:122:ILE:HG12	1.83	0.60
42:WI:262:TYR:HE1	41:WJ:393:ALA:HA	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:WI:320:ARG:HG3	42:WI:374:ALA:HB3	1.83	0.60
42:WI:323:VAL:HG13	42:WI:355:ILE:HG23	1.84	0.60
42:WK:79:ARG:NH2	42:WK:92:LEU:O	2.35	0.60
9:2D:567:TYR:CE1	41:IN:276:ARG:NH2	2.70	0.59
21:3U:217:LEU:HD11	21:3U:229:ARG:HH12	1.67	0.59
22:4B:31:MET:HG2	42:CM:221:ARG:HD2	1.84	0.59
42:BE:254:GLU:OE2	42:BE:258:ASN:ND2	2.35	0.59
41:CH:105:HIS:HA	41:CH:150:LEU:HD22	1.83	0.59
41:CH:178:THR:HB	41:CH:181:GLU:HG2	1.84	0.59
42:DC:294:ALA:O	42:DC:300:ASN:ND2	2.34	0.59
41:DD:54:ALA:HB3	41:DD:58:LYS:HB3	1.84	0.59
41:DL:46:ARG:HH12	42:DM:73:THR:HG23	1.67	0.59
41:ED:50:TYR:HE2	41:ED:237:THR:HG21	1.66	0.59
41:FD:130:LEU:O	41:FD:131:GLN:C	2.40	0.59
42:FI:18:ASN:HD21	42:FI:78:VAL:HG22	1.67	0.59
42:FK:273:ALA:HB2	42:FK:375:VAL:HG22	1.84	0.59
41:FL:322:SER:HB2	42:FM:221:ARG:HG2	1.84	0.59
41:HJ:86:ARG:HG2	41:HJ:89:ASN:H	1.67	0.59
42:HK:66:VAL:HG21	42:HK:122:ILE:HD13	1.83	0.59
42:HM:1:MET:HG2	42:HM:2:ARG:HG3	1.82	0.59
42:IK:408:TYR:HB3	42:IK:413:MET:HG2	1.84	0.59
41:JH:245:GLN:NE2	41:JH:323:MET:SD	2.74	0.59
42:JM:104:ALA:HA	42:JM:108:TYR:HD2	1.66	0.59
41:KD:221:THR:HG23	41:KD:223:GLY:H	1.66	0.59
42:KG:215:ARG:NH2	42:KG:299:ALA:O	2.35	0.59
41:KJ:170:VAL:HG21	41:KJ:377:LEU:HD21	1.84	0.59
42:MK:27:GLU:OE2	42:MK:320:ARG:NH2	2.35	0.59
42:MM:139:HIS:NE2	42:MM:170:SER:OG	2.33	0.59
42:MM:229:ARG:HD3	42:MM:363:VAL:HG21	1.83	0.59
42:OC:292:THR:OG1	42:OC:319:TYR:OH	2.20	0.59
41:OH:68:LEU:CA	41:OH:93:GLY:HA3	2.29	0.59
42:PE:194:THR:HG23	42:PE:198:SER:HB3	1.83	0.59
41:PF:344:TRP:O	41:PF:345:ILE:C	2.41	0.59
42:PG:352:LYS:NZ	41:PH:178:THR:OG1	2.33	0.59
41:QF:63:ALA:O	41:QF:89:ASN:ND2	2.35	0.59
42:RE:271:THR:HG1	42:RE:295:CYS:HG	1.48	0.59
41:RL:279:GLN:NE2	41:RL:279:GLN:O	2.35	0.59
41:RL:316:VAL:HA	41:RL:352:ALA:HB3	1.83	0.59
41:SH:178:THR:HG22	41:SH:180:VAL:H	1.67	0.59
41:SJ:139:LEU:HD22	41:SJ:188:SER:HB3	1.84	0.59
42:TM:384:ILE:HG13	42:TM:385:ALA:N	2.15	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:VD:314:ALA:HB3	41:VD:368:ILE:H	1.66	0.59
41:WF:22:GLU:HG3	41:WF:81:PHE:HB2	1.84	0.59
9:2D:567:TYR:CG	41:IN:276:ARG:CZ	2.85	0.59
32:5M:336:ARG:HA	32:5M:339:LYS:HG2	1.82	0.59
33:5R:202:LYS:HG2	33:5S:315:HIS:HB3	1.83	0.59
33:5V:176:HIS:HA	33:5V:179:LYS:HG2	1.82	0.59
33:5W:122:SER:OG	33:5W:124:ARG:NH1	2.33	0.59
34:6H:81:LEU:HD12	34:6H:82:PRO:HD2	1.83	0.59
34:6H:467:TYR:OH	35:6W:248:GLU:HB3	2.02	0.59
35:6Q:254:PRO:HG3	35:6R:371:ASP:HA	1.82	0.59
37:7F:71:SER:O	37:7F:72:VAL:C	2.40	0.59
41:AB:309:ARG:HG3	41:AB:426:GLN:HG3	1.83	0.59
41:AH:110:ALA:HA	41:AH:113:VAL:HG22	1.83	0.59
41:AL:236:VAL:HG23	41:AL:237:THR:HG23	1.84	0.59
41:BH:260:PHE:HB2	41:BH:263:LEU:HD13	1.83	0.59
41:CB:221:THR:HG23	41:CB:223:GLY:H	1.67	0.59
41:CL:354:CYS:SG	41:CL:355:ASP:N	2.76	0.59
41:DH:166:THR:HB	41:DH:199:THR:HA	1.84	0.59
41:DL:46:ARG:NH2	42:DM:76:ASP:OD2	2.34	0.59
41:EJ:49:VAL:HG21	41:EJ:241:ARG:HG2	1.83	0.59
42:EK:168:GLU:H	42:EK:200:CYS:HB3	1.66	0.59
41:FL:285:THR:H	41:FL:288:GLU:HG2	1.67	0.59
42:FM:239:THR:OG1	42:FM:243:ARG:NH2	2.35	0.59
42:GC:338:LYS:NZ	42:GC:340:THR:OG1	2.32	0.59
42:GC:414:GLU:HB2	42:GC:417:GLU:HG3	1.83	0.59
42:HK:120:ASP:HA	42:HK:123:ARG:HB3	1.83	0.59
41:ID:15:GLN:NE2	43:ID:501:GDP:O6	2.35	0.59
41:ID:324:LYS:HD2	42:IE:222:PRO:HD2	1.84	0.59
41:JH:54:ALA:HB3	41:JH:58:LYS:HB3	1.83	0.59
42:KC:21:TRP:HA	42:KC:24:TYR:HD2	1.66	0.59
41:NF:159:TYR:HB3	41:NF:162:ARG:HG3	1.82	0.59
42:NG:191:THR:HG23	42:NG:425:MET:HE1	1.84	0.59
41:NH:122:LYS:HE3	41:NH:123:GLU:HG2	1.82	0.59
41:OD:50:TYR:HE1	41:OD:237:THR:HG21	1.67	0.59
42:OG:93:ILE:HG12	42:OG:117:LEU:HG	1.84	0.59
41:PD:324:LYS:HB2	42:PE:222:PRO:HD2	1.84	0.59
41:PH:105:HIS:HA	41:PH:150:LEU:HB2	1.84	0.59
41:PH:256:ASN:OD1	42:PI:181:VAL:N	2.35	0.59
41:PJ:116:VAL:HG11	41:PJ:151:LEU:HD11	1.83	0.59
41:QD:153:SER:HB3	41:QD:191:GLN:HE22	1.67	0.59
41:QJ:3:GLU:HA	41:QJ:49:VAL:HA	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:RD:181:GLU:HG2	41:RD:182:PRO:HD3	1.85	0.59
42:RG:184:PRO:HG3	42:RG:394:LYS:HB3	1.84	0.59
42:SM:131:GLY:O	42:SM:133:GLN:NE2	2.35	0.59
41:TF:272:PRO:HB2	41:TF:361:LEU:HD13	1.84	0.59
41:UH:101:TRP:NE1	41:UH:145:SER:O	2.34	0.59
42:VE:133:GLN:HG2	42:VE:242:LEU:HD21	1.84	0.59
41:WL:324:LYS:HE3	42:WM:214:ARG:HD2	1.83	0.59
34:6A:94:TYR:CE2	34:6B:208:ILE:CD1	2.80	0.59
34:6K:288:GLU:HG2	34:6K:289:ARG:HD2	1.84	0.59
37:7D:54:ARG:HB3	41:TD:296:ALA:H	1.67	0.59
42:AE:275:VAL:HG23	42:AE:368:LEU:HD21	1.84	0.59
41:BH:354:CYS:SG	41:BH:355:ASP:N	2.74	0.59
42:CC:136:LEU:HD23	42:CC:167:LEU:HB2	1.83	0.59
41:CF:7:LEU:HD13	41:CF:135:LEU:HD12	1.84	0.59
42:CG:328:VAL:HG12	42:CG:332:ILE:HD11	1.84	0.59
41:DB:73:MET:HA	41:DB:76:VAL:HG12	1.83	0.59
41:DF:141:GLY:O	41:DF:184:ASN:ND2	2.32	0.59
41:DJ:58:LYS:HA	41:EJ:281:TYR:CE2	2.38	0.59
42:EM:49:PHE:HD2	42:EM:53:PHE:HB2	1.67	0.59
42:EM:344:VAL:HG22	42:EM:346:TRP:H	1.68	0.59
42:FC:16:ILE:HD11	42:FC:138:PHE:HB3	1.82	0.59
42:FI:195:LEU:HD23	42:FI:266:HIS:HE1	1.66	0.59
42:HC:407:TRP:O	42:HC:408:TYR:C	2.39	0.59
41:HL:215:LEU:HD11	41:HL:273:LEU:HD12	1.83	0.59
42:JC:311:LYS:HZ1	42:JC:436:GLY:HA2	1.67	0.59
41:KF:46:ARG:HE	42:KG:73:THR:HG22	1.67	0.59
42:KI:71:GLU:HB2	42:KI:98:ASP:HB3	1.83	0.59
42:MG:274:PRO:HB2	42:MG:371:VAL:HG11	1.84	0.59
42:MI:27:GLU:OE2	42:MI:320:ARG:NH2	2.35	0.59
41:ML:413:SER:O	41:ML:417:ASP:N	2.34	0.59
41:NJ:324:LYS:NZ	41:NJ:328:GLU:OE1	2.35	0.59
41:OD:237:THR:HA	41:OD:240:LEU:HD13	1.84	0.59
42:OI:311:LYS:NZ	42:OI:344:VAL:HA	2.17	0.59
41:PF:170:VAL:HG21	41:PF:377:LEU:HG	1.82	0.59
41:PH:129:CYS:O	41:PH:130:LEU:C	2.40	0.59
41:PH:256:ASN:HB3	42:PI:181:VAL:HG13	1.84	0.59
42:PK:17:GLY:HA2	42:PK:20:CYS:HB3	1.83	0.59
41:QB:139:LEU:HD12	41:QB:188:SER:HB2	1.84	0.59
42:QC:60:LYS:HD3	42:RC:283:HIS:HA	1.85	0.59
41:RD:14:ASN:HB3	41:RD:76:VAL:HG21	1.83	0.59
42:RG:81:GLY:H	42:RG:84:ARG:HB3	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:SD:274:THR:HG1	41:SD:278:SER:HG	1.47	0.59
41:SF:270:PHE:HB3	41:SF:273:LEU:HD21	1.83	0.59
42:SG:60:LYS:HZ1	42:SG:62:VAL:HB	1.65	0.59
42:SI:21:TRP:CH2	42:SI:52:PHE:HB3	2.38	0.59
41:SL:108:GLU:O	41:SL:109:GLY:C	2.40	0.59
42:TE:16:ILE:O	42:TE:20:CYS:N	2.34	0.59
42:TG:109:THR:HG22	42:TG:110:ILE:H	1.67	0.59
42:TG:191:THR:HA	42:TG:194:THR:HG22	1.84	0.59
41:TJ:139:LEU:HB2	41:TJ:171:PRO:HD3	1.83	0.59
41:TJ:258:VAL:HG13	42:TK:407:TRP:CZ2	2.38	0.59
41:UJ:148:GLY:O	41:UJ:152:ILE:HG12	2.02	0.59
42:VC:7:VAL:HB	42:VC:137:ILE:HG12	1.83	0.59
41:VD:182:PRO:HB3	41:VD:384:GLN:HG3	1.83	0.59
41:VJ:392:LYS:NZ	41:VJ:405:GLU:OE2	2.35	0.59
13:2S:160:ARG:HE	41:GH:224:ASP:HB2	1.67	0.59
24:4F:110:LEU:CD2	41:HD:32:PRO:HG2	2.32	0.59
33:5Q:7:LYS:HA	35:6Q:326:LEU:HD12	1.84	0.59
33:5T:112:VAL:HG21	33:5T:397:LEU:HG	1.84	0.59
33:5W:133:VAL:HG23	33:5W:268:ARG:HG3	1.84	0.59
33:5X:323:TYR:HB3	35:6W:205:TRP:CH2	2.38	0.59
37:7E:165:GLY:HA3	41:OJ:296:ALA:HB3	1.84	0.59
39:7K:88:GLU:OE1	39:7K:92:ARG:NH2	2.35	0.59
41:AF:316:VAL:HG12	41:AF:352:ALA:HB3	1.83	0.59
42:AK:136:LEU:HB3	42:AK:138:PHE:HE2	1.68	0.59
41:BF:191:GLN:OE1	41:BF:195:ASN:ND2	2.34	0.59
41:BJ:149:THR:HG23	41:BJ:191:GLN:HE22	1.68	0.59
42:CG:53:PHE:HE1	42:CG:86:LEU:HD11	1.67	0.59
42:CI:51:THR:HG21	42:CI:243:ARG:HG2	1.84	0.59
41:DB:2:ARG:HD3	41:DB:240:LEU:HG	1.84	0.59
41:DH:113:VAL:HA	41:DH:116:VAL:HG12	1.83	0.59
42:EC:229:ARG:NH1	42:EC:365:GLY:O	2.36	0.59
42:EC:259:LEU:HD23	42:EC:268:PRO:HG3	1.82	0.59
42:EG:164:LYS:O	42:EG:166:LYS:N	2.35	0.59
41:EJ:275:SER:O	41:EJ:279:GLN:NE2	2.34	0.59
42:FK:184:PRO:HB3	42:FK:394:LYS:HB3	1.84	0.59
41:FL:9:ALA:HA	41:FL:66:VAL:O	2.03	0.59
41:FL:208:TYR:HD1	41:FL:225:LEU:HD22	1.68	0.59
42:GE:90:GLU:HB2	42:HE:280:LYS:HE3	1.84	0.59
41:GJ:214:THR:O	41:GJ:216:LYS:N	2.33	0.59
41:HB:138:SER:HA	41:HB:169:VAL:HB	1.85	0.59
42:HG:328:VAL:HG13	42:HG:353:VAL:HG11	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:HH:248:ALA:HA	41:HH:252:LYS:HD3	1.85	0.59
41:HJ:107:THR:HG21	41:HJ:401:GLU:HG3	1.84	0.59
41:IF:63:ALA:O	41:IF:89:ASN:ND2	2.35	0.59
42:JC:213:CYS:HA	42:JC:217:LEU:HD12	1.83	0.59
42:JC:311:LYS:H	42:JC:382:THR:HG22	1.67	0.59
41:JL:210:ILE:HA	41:JL:214:THR:HG23	1.85	0.59
41:KF:67:ASP:OD1	41:KF:68:LEU:N	2.36	0.59
41:LF:236:VAL:HG22	41:LF:368:ILE:HD11	1.84	0.59
41:ML:163:ILE:HD11	41:ML:251:ARG:HE	1.66	0.59
41:MN:249:ASP:HB3	41:MN:252:LYS:HB3	1.83	0.59
41:NF:44:LEU:HD12	41:NF:47:ILE:HG13	1.84	0.59
41:OB:46:ARG:HB2	41:OB:241:ARG:HA	1.84	0.59
42:OC:238:ILE:HG12	42:OC:378:LEU:HD11	1.84	0.59
42:OG:108:TYR:HE2	42:OG:413:MET:HG3	1.66	0.59
42:OG:188:ILE:HD12	42:OG:425:MET:HG3	1.85	0.59
41:OH:258:VAL:HG23	42:OI:407:TRP:HE1	1.67	0.59
41:OJ:70:PRO:HD3	41:OJ:94:GLN:HA	1.84	0.59
42:PA:276:ILE:HG12	42:PA:280:LYS:HG3	1.84	0.59
41:PD:1:MET:CA	42:PE:96:LYS:HD2	2.32	0.59
42:PG:381:THR:HG23	42:PG:383:ALA:H	1.67	0.59
41:PH:322:SER:O	41:PH:323:MET:C	2.40	0.59
42:RC:64:ARG:HG3	42:RC:125:LEU:HD12	1.85	0.59
41:RD:24:ILE:HA	41:RD:27:GLU:HG2	1.84	0.59
41:RF:155:ILE:HA	41:RF:158:GLU:HB3	1.84	0.59
42:SE:205:ASP:HB2	42:SE:303:VAL:HA	1.84	0.59
41:SF:327:ASP:HB3	42:SG:177:VAL:HG11	1.84	0.59
42:SG:269:LEU:HD22	42:SG:303:VAL:HG21	1.84	0.59
42:SI:105:ARG:HA	42:SI:109:THR:HG23	1.83	0.59
41:TF:273:LEU:O	41:TF:292:GLN:NE2	2.34	0.59
42:TI:102:ASN:O	42:TI:105:ARG:N	2.32	0.59
41:TL:132:GLY:HA3	41:TL:163:ILE:HG12	1.85	0.59
41:TL:140:GLY:HA2	41:TL:184:ASN:HB2	1.84	0.59
41:UD:24:ILE:HA	41:UD:27:GLU:HB3	1.84	0.59
41:UD:156:ARG:NH2	41:UD:162:ARG:O	2.36	0.59
41:UD:375:GLN:NE2	41:UD:419:VAL:HG22	2.18	0.59
42:UG:311:LYS:HD3	42:UG:342:GLN:HB3	1.84	0.59
42:WI:261:PRO:HA	41:WJ:394:PHE:CE1	2.36	0.59
14:2X:87:LEU:HG	42:OE:285:GLN:HE21	1.67	0.59
15:3A:51:TRP:CZ2	42:IK:79:ARG:HD3	2.37	0.59
33:5W:118:THR:HG23	35:6U:409:ARG:HE	1.68	0.59
35:6V:294:ARG:NH1	35:6V:297:CYS:SG	2.75	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:AB:330:MET:O	41:AB:334:GLN:N	2.31	0.59
42:BE:216:ASN:OD1	42:BE:300:ASN:ND2	2.31	0.59
42:CC:22:GLU:HG3	42:CC:23:LEU:H	1.68	0.59
42:DK:14:VAL:HG21	42:DK:74:VAL:HG13	1.84	0.59
41:EF:135:LEU:HB3	41:EF:166:THR:HG22	1.84	0.59
41:EF:262:ARG:NH2	41:EF:414:ASN:OD1	2.36	0.59
42:EK:14:VAL:HG22	42:EK:74:VAL:HG22	1.84	0.59
42:EK:170:SER:H	42:EK:202:PHE:HB3	1.68	0.59
42:FG:307:PRO:O	42:FG:342:GLN:NE2	2.36	0.59
41:FL:246:LEU:HB2	41:FL:353:VAL:HG12	1.83	0.59
41:GD:389:PHE:CZ	41:GD:408:PHE:HB2	2.37	0.59
42:GM:228:ASN:HA	42:GM:231:ILE:HG22	1.83	0.59
42:HE:273:ALA:HB2	42:HE:295:CYS:HB3	1.84	0.59
41:HJ:101:TRP:CZ2	41:HJ:187:LEU:HD22	2.38	0.59
41:HJ:178:THR:HG22	41:HJ:180:VAL:H	1.66	0.59
42:HK:99:ALA:O	42:HK:105:ARG:HD3	2.03	0.59
41:IF:32:PRO:HA	41:IF:84:ILE:HD11	1.84	0.59
41:LJ:311:LEU:HD23	41:LJ:342:VAL:HG11	1.85	0.59
41:MF:334:GLN:HE22	41:MF:348:ASN:H	1.50	0.59
41:MH:235:GLY:HA3	41:MH:366:THR:HG21	1.85	0.59
42:MI:3:GLU:HA	42:MI:51:THR:HA	1.85	0.59
41:NF:290:THR:HA	41:NF:293:MET:HE3	1.85	0.59
41:NL:11:GLN:O	41:NL:15:GLN:NE2	2.36	0.59
41:OB:138:SER:O	41:OB:140:GLY:N	2.35	0.59
41:OB:354:CYS:SG	41:OB:355:ASP:N	2.75	0.59
41:OD:33:THR:O	41:OD:58:LYS:NZ	2.35	0.59
41:OD:64:VAL:HG12	41:OD:89:ASN:HD22	1.67	0.59
41:OH:325:GLU:HB3	41:OH:329:GLN:HE22	1.67	0.59
42:PE:9:VAL:HB	42:PE:68:VAL:HG13	1.85	0.59
42:PE:391:LEU:HD23	42:PE:394:LYS:HD3	1.85	0.59
42:PK:12:ALA:HA	45:PK:501:GTP:N2	2.16	0.59
41:PL:258:VAL:HG13	41:PL:266:PHE:HZ	1.66	0.59
41:QB:170:VAL:HG21	41:QB:377:LEU:HD21	1.85	0.59
42:QG:76:ASP:HA	42:QG:79:ARG:HG2	1.84	0.59
41:RH:31:ASP:HB2	41:RH:35:THR:H	1.68	0.59
42:RK:105:ARG:HA	42:RK:109:THR:HB	1.85	0.59
41:SD:263:LEU:O	41:SD:370:ASN:ND2	2.36	0.59
41:SF:298:ASN:O	41:SF:299:MET:C	2.41	0.59
42:SG:68:VAL:HG22	42:SG:93:ILE:HB	1.83	0.59
41:SH:135:LEU:HB3	41:SH:166:THR:HG23	1.84	0.59
41:SH:317:PHE:HD2	41:SH:353:VAL:HG12	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:TC:295:CYS:HB2	42:TC:377:MET:HB2	1.84	0.59
42:TE:319:TYR:HD2	42:TE:323:VAL:HG11	1.67	0.59
42:TE:403:ALA:O	42:TE:405:VAL:N	2.35	0.59
41:TL:107:THR:HG22	41:TL:108:GLU:H	1.66	0.59
41:TL:211:CYS:HB3	41:TL:217:LEU:HD12	1.85	0.59
42:UG:274:PRO:HG2	42:UG:374:ALA:HA	1.84	0.59
41:UH:271:ALA:O	41:UH:292:GLN:NE2	2.35	0.59
41:UJ:1:MET:HG2	41:UJ:48:ASN:HD21	1.68	0.59
42:UK:168:GLU:HB3	42:UK:201:ALA:HA	1.82	0.59
41:WH:398:TYR:HB3	41:WH:408:PHE:HZ	1.68	0.59
41:WJ:130:LEU:HB3	41:WJ:162:ARG:HE	1.67	0.59
6:1R:39:LEU:HD21	41:JL:77:ARG:HG2	1.84	0.59
14:2W:106:PHE:CD2	41:OB:280:GLN:HB3	2.38	0.59
22:4A:187:ARG:HD3	22:4A:190:PHE:HD2	1.66	0.59
27:4Q:48:MET:O	41:AF:336:LYS:NZ	2.29	0.59
34:6G:166:ALA:HB1	34:6G:315:ARG:HH12	1.68	0.59
34:6N:406:ARG:NH2	34:6N:412:CYS:O	2.36	0.59
35:6S:136:GLN:HG3	35:6S:140:ARG:HH22	1.68	0.59
42:CI:259:LEU:HD11	42:CI:316:CYS:HB2	1.83	0.59
42:CK:434:GLU:O	41:CL:391:ARG:NH2	2.35	0.59
41:DD:210:ILE:HG23	41:DD:273:LEU:HD21	1.85	0.59
41:DJ:402:GLY:O	41:DJ:404:ASP:N	2.36	0.59
41:ED:91:VAL:HG11	41:ED:116:VAL:HG22	1.84	0.59
41:EJ:294:PHE:CD2	41:EJ:333:VAL:HG11	2.38	0.59
42:EK:5:ILE:HG13	42:EK:132:LEU:HD11	1.85	0.59
42:EK:183:GLU:CD	42:EK:184:PRO:HD3	2.23	0.59
42:EM:344:VAL:HG13	42:EM:347:CYS:HB2	1.84	0.59
42:FC:186:ASN:O	42:FC:190:THR:HG23	2.03	0.59
42:FK:401:LYS:O	42:FK:402:ARG:C	2.40	0.59
42:FM:311:LYS:HB3	42:FM:344:VAL:HG21	1.85	0.59
41:GD:295:ASP:HB3	41:GD:298:ASN:HD22	1.68	0.59
42:HI:359:PRO:HB2	42:HI:370:LYS:HZ1	1.67	0.59
42:HM:115:ILE:HD11	42:HM:156:ARG:HG3	1.85	0.59
42:JE:9:VAL:HG12	42:JE:68:VAL:HB	1.85	0.59
41:JH:415:MET:O	41:JH:419:VAL:N	2.33	0.59
42:LG:50:ASN:O	42:LG:64:ARG:NH1	2.35	0.59
41:ND:43:GLN:HA	41:ND:242:PHE:HE1	1.67	0.59
41:OJ:189:VAL:HG21	41:OJ:415:MET:HE3	1.84	0.59
42:OK:79:ARG:NH2	42:OK:92:LEU:O	2.36	0.59
42:PE:25:CYS:HA	42:PE:30:ILE:HB	1.84	0.59
42:PE:88:HIS:HB3	42:PE:91:GLN:HB2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:PJ:256:ASN:HB2	42:PK:181:VAL:HG22	1.84	0.59
41:QB:207:LEU:HD13	41:QB:225:LEU:HB3	1.84	0.59
41:RF:293:MET:HB2	41:RF:367:PHE:HB3	1.85	0.59
42:RG:369:ALA:HB3	42:RG:371:VAL:HG23	1.83	0.59
42:RI:56:THR:HG23	42:RI:58:ALA:H	1.68	0.59
42:RI:336:LYS:NZ	42:RI:349:THR:O	2.35	0.59
41:RJ:139:LEU:HB2	41:RJ:170:VAL:HA	1.84	0.59
41:RJ:170:VAL:HG21	41:RJ:377:LEU:HD21	1.85	0.59
42:TE:249:ASN:OD1	41:TF:11:GLN:NE2	2.35	0.59
42:TK:319:TYR:HD1	42:TK:323:VAL:HG11	1.66	0.59
42:UE:320:ARG:HH11	42:UE:360:PRO:HA	1.65	0.59
41:UF:362:LYS:HG3	41:UF:363:MET:HG3	1.84	0.59
41:UH:68:LEU:HD12	41:UH:143:THR:HG22	1.83	0.59
41:UJ:46:ARG:NH2	42:UK:72:PRO:O	2.35	0.59
41:UL:103:LYS:HA	41:UL:107:THR:HB	1.83	0.59
42:VE:238:ILE:HG23	42:VE:255:PHE:HE2	1.66	0.59
41:WH:7:LEU:HB2	41:WH:135:LEU:HD12	1.84	0.59
42:WM:351:PHE:HB2	41:WN:176:SER:HB3	1.83	0.59
13:2T:397:ARG:HH21	42:GK:371:VAL:H	1.49	0.59
20:3P:108:ASN:ND2	41:BJ:219:THR:O	2.36	0.59
22:4C:186:PRO:HG3	41:CF:44:LEU:HG	1.84	0.59
25:4J:9:PHE:HE1	25:4J:60:LEU:HB3	1.66	0.59
35:6V:162:ARG:HB2	35:6V:167:LEU:HD13	1.84	0.59
41:BB:286:VAL:HA	41:BB:289:LEU:HB2	1.83	0.59
41:BD:377:LEU:HD12	41:BD:380:ARG:HH22	1.67	0.59
42:BI:27:GLU:HA	42:BI:361:THR:HG21	1.83	0.59
42:CC:401:LYS:O	42:CC:402:ARG:C	2.40	0.59
42:CG:269:LEU:HD13	42:CG:381:THR:HG23	1.83	0.59
42:DC:88:HIS:HB3	42:DC:91:GLN:HB2	1.85	0.59
42:DG:200:CYS:HA	42:DG:266:HIS:HB2	1.83	0.59
42:DM:70:LEU:HB3	42:DM:98:ASP:HA	1.82	0.59
42:EC:318:LEU:HB3	42:EC:376:CYS:HB3	1.84	0.59
42:EE:163:LYS:O	42:EE:164:LYS:C	2.41	0.59
42:EK:305:CYS:SG	42:EK:305:CYS:O	2.59	0.59
41:EL:391:ARG:O	41:EL:392:LYS:C	2.40	0.59
42:EM:275:VAL:HG12	42:EM:368:LEU:HD21	1.85	0.59
42:GE:288:VAL:HA	42:GE:291:ILE:HG22	1.84	0.59
41:GJ:198:GLU:HG2	41:GJ:266:PHE:CE1	2.37	0.59
42:HC:232:GLY:HA2	42:HC:235:VAL:HG22	1.85	0.59
41:HF:159:TYR:HB3	41:HF:162:ARG:HG3	1.84	0.59
41:HJ:105:HIS:HA	41:HJ:150:LEU:HD22	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:IF:64:VAL:HG23	41:IF:89:ASN:HB2	1.85	0.59
42:JG:311:LYS:NZ	42:JG:436:GLY:O	2.36	0.59
41:JH:11:GLN:HB2	41:JH:72:THR:HG21	1.84	0.59
42:JI:88:HIS:HB3	42:JI:91:GLN:HG3	1.85	0.59
41:JJ:372:THR:HG21	41:JJ:426:GLN:HB2	1.84	0.59
42:JK:281:ALA:O	42:JK:282:TYR:C	2.41	0.59
42:KG:102:ASN:HB3	42:KG:105:ARG:HB2	1.85	0.59
41:KJ:86:ARG:HB3	41:KJ:89:ASN:HB2	1.85	0.59
41:LJ:236:VAL:HG22	41:LJ:368:ILE:HD11	1.85	0.59
41:MF:202:ILE:HD11	41:MF:207:LEU:HD11	1.84	0.59
42:MK:319:TYR:HB3	42:MK:323:VAL:HG21	1.84	0.59
41:ML:414:ASN:HA	41:ML:417:ASP:HB2	1.84	0.59
41:NB:2:ARG:HH22	42:NC:72:PRO:HD2	1.68	0.59
41:NJ:87:PRO:HA	41:NJ:90:PHE:HD2	1.67	0.59
41:OF:311:LEU:O	41:OF:348:ASN:ND2	2.35	0.59
41:OL:105:HIS:CD2	41:OL:150:LEU:HD13	2.38	0.59
42:PC:135:PHE:H	42:PC:167:LEU:N	2.01	0.59
42:PG:71:GLU:HB2	42:PG:73:THR:HG23	1.84	0.59
42:PI:129:CYS:O	42:PI:130:THR:C	2.41	0.59
42:QC:422:ARG:NH1	42:QC:422:ARG:O	2.35	0.59
41:QJ:391:ARG:O	41:QJ:392:LYS:C	2.40	0.59
41:RB:134:GLN:HA	41:RB:165:ASN:HB3	1.84	0.59
41:RF:130:LEU:H	41:RF:162:ARG:HH21	1.51	0.59
42:SK:311:LYS:NZ	42:SK:436:GLY:O	2.33	0.59
41:SL:190:HIS:HD2	41:SL:411:ALA:HA	1.67	0.59
42:TG:132:LEU:HD12	42:TG:164:LYS:HE2	1.84	0.59
42:TI:112:LYS:HG2	42:TI:152:LEU:HD21	1.84	0.59
42:TM:185:TYR:HB2	42:TM:398:MET:HE1	1.84	0.59
42:UE:140:SER:OG	45:UE:501:GTP:O2A	2.20	0.59
41:UL:222:TYR:O	41:UL:226:ASN:ND2	2.35	0.59
41:WN:309:ARG:H	41:WN:372:THR:HG22	1.66	0.59
19:3K:9:LEU:HD12	19:3K:10:PRO:HD2	1.84	0.59
20:3N:11:HIS:N	41:KD:72:THR:H	2.00	0.59
30:5A:269:VAL:HG12	30:5A:271:ASP:H	1.67	0.59
31:5F:59:SER:HA	41:OF:56:GLY:HA2	1.82	0.59
31:5J:123:VAL:HG11	42:OA:32:PRO:HB2	1.85	0.59
32:5O:84:LEU:HD23	32:5O:168:LYS:HG3	1.83	0.59
33:5S:191:SER:O	33:5S:192:LEU:C	2.40	0.59
34:6A:194:VAL:HG21	34:6A:481:PRO:HG2	1.84	0.59
34:6G:197:GLU:HA	34:6G:200:PHE:HD2	1.67	0.59
34:6H:291:ASP:H	34:6L:55:TYR:HE2	1.49	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BK:310:GLY:HA3	42:BK:383:ALA:HB2	1.85	0.59
41:BL:318:ARG:HB2	41:BL:364:SER:HB3	1.84	0.59
42:CG:288:VAL:HA	42:CG:291:ILE:CG1	2.32	0.59
41:CH:207:LEU:HB3	41:CH:225:LEU:HD22	1.84	0.59
41:DB:139:LEU:HD22	41:DB:170:VAL:HA	1.85	0.59
41:DH:68:LEU:HD23	41:DH:97:ALA:HB2	1.84	0.59
41:DJ:42:LEU:HD12	41:DJ:43:GLN:HG3	1.83	0.59
41:DJ:149:THR:HA	41:DJ:152:ILE:HD12	1.83	0.59
42:EG:2:ARG:O	42:EG:51:THR:HA	2.03	0.59
41:FL:391:ARG:O	41:FL:392:LYS:C	2.41	0.59
42:FM:263:PRO:O	42:FM:266:HIS:ND1	2.36	0.59
41:GD:393:ALA:O	41:GD:394:PHE:C	2.40	0.59
41:HB:62:ARG:NH2	41:HB:127:CYS:SG	2.76	0.59
42:HC:183:GLU:HA	42:HC:186:ASN:HD21	1.67	0.59
42:HC:223:THR:H	42:HC:226:ASN:HD21	1.51	0.59
42:HC:295:CYS:HB3	42:HC:377:MET:HG2	1.85	0.59
41:HL:131:GLN:NE2	41:HL:249:ASP:OD2	2.34	0.59
42:HM:285:GLN:O	42:HM:286:LEU:C	2.41	0.59
42:IE:139:HIS:HE1	42:IE:168:GLU:HB3	1.67	0.59
41:IN:266:PHE:HB3	41:IN:368:ILE:HG22	1.84	0.59
41:JD:70:PRO:HD3	41:JD:94:GLN:HA	1.85	0.59
42:JE:228:ASN:HA	42:JE:231:ILE:HG22	1.85	0.59
42:KE:50:ASN:O	42:KE:64:ARG:NH1	2.36	0.59
41:KJ:46:ARG:NH2	42:KK:76:ASP:OD2	2.30	0.59
41:KJ:316:VAL:HG12	41:KJ:352:ALA:HB3	1.85	0.59
42:KM:133:GLN:HE22	42:KM:252:LEU:H	1.49	0.59
41:LJ:46:ARG:NH2	42:LK:76:ASP:OD2	2.35	0.59
41:ML:207:LEU:HD12	43:ML:501:GDP:HN21	1.68	0.59
41:NJ:322:SER:HA	42:NK:223:THR:HB	1.85	0.59
42:PI:174:ALA:HB1	42:PI:175:PRO:HD2	1.83	0.59
41:RL:412:GLU:OE2	41:RL:416:ASN:ND2	2.34	0.59
42:SE:325:PRO:HB2	41:SF:222:TYR:HE2	1.68	0.59
41:TF:324:LYS:HE3	42:TG:210:TYR:HD1	1.66	0.59
42:UC:276:ILE:HG13	42:UC:280:LYS:HB2	1.85	0.59
41:UH:196:THR:HG21	41:UH:199:THR:HB	1.84	0.59
42:UK:332:ILE:HG23	41:UL:175:VAL:HG21	1.84	0.59
41:VF:249:ASP:H	41:VF:252:LYS:HD3	1.66	0.59
42:VI:180:ALA:HB3	42:VI:183:GLU:HG3	1.83	0.59
42:WE:180:ALA:HB3	42:WE:183:GLU:HG3	1.85	0.59
41:WJ:5:VAL:HG22	41:WJ:62:ARG:HD3	1.85	0.59
27:4R:93:LYS:HZ2	27:4R:94:ILE:H	1.51	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:7E:161:PHE:CE2	41:OJ:290:THR:HB	2.38	0.59
42:BC:176:GLN:OE1	42:BC:390:ARG:NH2	2.31	0.59
41:BD:173:PRO:O	41:BD:174:LYS:C	2.41	0.59
41:BL:330:MET:HB3	41:BL:349:VAL:HG11	1.85	0.59
42:CC:162:GLY:O	42:CC:163:LYS:C	2.41	0.59
41:DJ:236:VAL:HG23	41:DJ:237:THR:HG23	1.84	0.59
41:EF:248:ALA:HA	41:EF:252:LYS:HD2	1.83	0.59
42:EI:70:LEU:HD22	42:EI:114:LEU:HD13	1.84	0.59
41:EJ:176:SER:OG	41:EJ:178:THR:O	2.20	0.59
41:FH:267:MET:HB3	41:FH:370:ASN:N	2.18	0.59
42:FI:198:SER:OG	42:FI:263:PRO:O	2.21	0.59
41:JD:354:CYS:SG	41:JD:355:ASP:N	2.75	0.59
41:KH:133:PHE:HZ	41:KH:159:TYR:HD2	1.51	0.59
41:KH:178:THR:HB	41:KH:181:GLU:HG3	1.83	0.59
41:KH:316:VAL:HG12	41:KH:352:ALA:HB3	1.82	0.59
41:KH:392:LYS:HG2	41:KH:395:LEU:HD12	1.83	0.59
41:KL:314:ALA:HB3	41:KL:368:ILE:HB	1.83	0.59
41:LL:137:HIS:HE1	41:LL:166:THR:HG23	1.68	0.59
41:LN:207:LEU:HB3	41:LN:225:LEU:HD22	1.83	0.59
42:MM:408:TYR:HB3	42:MM:413:MET:HB2	1.85	0.59
41:MN:290:THR:HG21	41:MN:329:GLN:HB3	1.83	0.59
42:OG:319:TYR:HB3	42:OG:323:VAL:HG21	1.84	0.59
41:OJ:86:ARG:HB2	41:OJ:89:ASN:HB3	1.84	0.59
42:PE:36:MET:HB3	42:PE:37:PRO:HD2	1.83	0.59
41:PF:255:VAL:HG11	42:PG:100:ALA:HB1	1.83	0.59
41:PF:257:MET:HB3	41:PF:266:PHE:CE2	2.38	0.59
42:PG:185:TYR:O	42:PG:189:LEU:HG	2.02	0.59
42:PK:60:LYS:HZ1	42:PK:62:VAL:HA	1.68	0.59
42:TI:325:PRO:HB2	41:TJ:222:TYR:CE2	2.28	0.59
42:TM:2:ARG:HG2	42:TM:51:THR:HB	1.83	0.59
41:UD:117:LEU:HB3	41:UD:121:ARG:HH21	1.68	0.59
41:UH:11:GLN:HG3	41:UH:72:THR:HG21	1.84	0.59
42:UK:217:LEU:HB3	42:UK:219:ILE:HG22	1.84	0.59
42:VK:66:VAL:HG21	42:VK:122:ILE:HG12	1.84	0.59
41:VL:379:LYS:NZ	41:VL:383:GLU:OE2	2.33	0.59
42:WE:273:ALA:HB3	42:WE:274:PRO:HD3	1.84	0.59
41:WJ:67:ASP:HA	41:WJ:143:THR:HG21	1.84	0.59
42:WM:180:ALA:HB3	42:WM:183:GLU:HG3	1.83	0.59
20:3O:475:PRO:HG3	20:3O:500:ASN:HB3	1.85	0.59
22:4C:28:ARG:NH2	41:CF:287:PRO:HG3	2.17	0.59
33:5V:416:ASN:ND2	34:6A:171:THR:HG21	2.06	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:6F:394:LYS:HD2	34:6G:283:TYR:CD1	2.33	0.59
41:AD:232:THR:HG21	41:AD:268:PRO:HB3	1.85	0.59
42:BG:9:VAL:HG23	42:BG:139:HIS:HB3	1.84	0.59
41:CL:18:ALA:HB2	41:CL:76:VAL:HG23	1.84	0.59
41:DH:425:TYR:O	41:DH:426:GLN:C	2.40	0.59
42:DI:265:ILE:O	42:DI:380:ASN:ND2	2.31	0.59
41:DJ:61:PRO:HD3	41:DJ:84:ILE:HG12	1.84	0.59
42:DM:11:GLN:HE21	42:DM:74:VAL:HG11	1.67	0.59
42:EC:277:SER:O	42:EC:281:ALA:N	2.33	0.59
42:FG:273:ALA:HB3	42:FG:375:VAL:HG13	1.85	0.59
41:FJ:141:GLY:H	41:FJ:184:ASN:HD21	1.51	0.59
41:GD:193:VAL:HA	41:GD:264:HIS:HE1	1.68	0.59
41:GH:275:SER:HG	41:GH:278:SER:H	1.49	0.59
42:GI:274:PRO:HG2	42:GI:374:ALA:HA	1.85	0.59
42:HE:320:ARG:HE	42:HE:360:PRO:HA	1.68	0.59
41:HJ:346:PRO:HD2	42:HK:398:MET:SD	2.43	0.59
42:IM:414:GLU:HG2	42:IM:416:GLY:H	1.68	0.59
41:IN:218:THR:OG1	41:IN:219:THR:N	2.35	0.59
42:JI:339:ARG:NH1	42:JI:339:ARG:O	2.36	0.59
41:LH:317:PHE:HB2	41:LH:353:VAL:HG12	1.85	0.59
42:ME:64:ARG:NH1	42:ME:129:CYS:SG	2.76	0.59
42:MG:273:ALA:HB3	42:MG:274:PRO:HD3	1.85	0.59
42:MK:308:ARG:HD2	42:NI:283:HIS:HB3	1.84	0.59
41:ML:62:ARG:NH1	41:ML:127:CYS:SG	2.75	0.59
42:MM:319:TYR:HB3	42:MM:323:VAL:HG21	1.83	0.59
42:PG:241:SER:O	42:PG:242:LEU:HB2	2.02	0.59
41:PH:5:VAL:HG22	41:PH:62:ARG:HD2	1.85	0.59
41:PH:10:GLY:HA2	41:PH:143:THR:HB	1.84	0.59
41:PL:310:TYR:HA	41:PL:371:SER:HA	1.84	0.59
41:QF:375:GLN:HE21	41:QF:419:VAL:HG13	1.68	0.59
41:QH:88:ASP:O	41:QH:90:PHE:N	2.36	0.59
42:QK:133:GLN:HB3	42:QK:252:LEU:HD13	1.85	0.59
41:QL:318:ARG:HD2	41:QL:358:PRO:HG3	1.85	0.59
42:TK:348:PRO:HG2	41:TL:384:GLN:HG2	1.84	0.59
42:UG:395:PHE:HD2	42:UG:422:ARG:HH21	1.50	0.59
42:UI:87:PHE:HB3	42:UI:92:LEU:HD11	1.85	0.59
33:5W:13:ARG:HE	33:5W:14:LEU:H	1.50	0.58
34:6G:394:LYS:NZ	34:6H:281:VAL:O	2.36	0.58
34:6J:66:ASP:HB2	35:6P:256:THR:HG22	1.85	0.58
38:7H:200:GLY:H	42:IC:338:LYS:HE3	1.67	0.58
42:AK:273:ALA:CB	42:AK:375:VAL:HG12	2.29	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CC:21:TRP:HA	42:CC:24:TYR:HB2	1.84	0.58
42:CE:195:LEU:HG	42:CE:266:HIS:HE1	1.68	0.58
41:CJ:309:ARG:HD3	41:CJ:342:VAL:HA	1.84	0.58
41:DH:16:ILE:HG23	41:DH:230:SER:HB3	1.84	0.58
42:DK:169:PHE:HB3	42:DK:203:MET:SD	2.43	0.58
42:DM:298:PRO:HB3	42:DM:307:PRO:HD2	1.85	0.58
42:EG:344:VAL:HG23	42:EG:347:CYS:HB2	1.85	0.58
42:EK:170:SER:H	42:EK:202:PHE:CB	2.16	0.58
42:FM:213:CYS:HA	42:FM:217:LEU:HB2	1.84	0.58
42:GC:80:THR:HA	42:GC:84:ARG:HH21	1.68	0.58
41:GH:139:LEU:HA	41:GH:145:SER:HB3	1.84	0.58
41:GH:246:LEU:HD11	42:GI:179:THR:HG21	1.85	0.58
42:HG:262:TYR:HB2	42:HG:265:ILE:CG1	2.32	0.58
42:HK:269:LEU:HB3	42:HK:303:VAL:HG21	1.85	0.58
42:JK:261:PRO:HD2	42:JK:265:ILE:HG13	1.85	0.58
41:KF:207:LEU:HB3	41:KF:225:LEU:HD22	1.85	0.58
42:LI:102:ASN:HD22	42:LI:105:ARG:HD3	1.68	0.58
42:NA:292:THR:HG22	42:NA:319:TYR:HE1	1.68	0.58
42:PA:263:PRO:HD3	41:PB:396:HIS:CG	2.38	0.58
41:PJ:65:LEU:HD13	41:PJ:90:PHE:CE1	2.38	0.58
41:QF:103:LYS:HA	41:QF:107:THR:HB	1.84	0.58
42:QI:168:GLU:HB2	42:QI:201:ALA:HA	1.84	0.58
41:QJ:155:ILE:HG23	41:QJ:159:TYR:HE2	1.68	0.58
41:QL:170:VAL:HG21	41:QL:377:LEU:HD21	1.85	0.58
42:RI:191:THR:HA	42:RI:194:THR:HG22	1.85	0.58
42:SI:141:PHE:HB3	42:SI:173:PRO:HD3	1.85	0.58
42:SK:396:ASP:HA	42:SK:399:TYR:HB3	1.85	0.58
41:SL:394:PHE:HB3	41:SL:397:TRP:CZ3	2.38	0.58
41:TD:5:VAL:HG22	41:TD:133:PHE:HD1	1.67	0.58
42:UG:392:ASP:HA	42:UG:422:ARG:HH22	1.67	0.58
41:VD:87:PRO:HD3	41:WD:281:TYR:HD2	1.67	0.58
41:VL:68:LEU:H	41:VL:143:THR:HG21	1.69	0.58
42:WG:195:LEU:HD21	42:WG:264:ARG:HH21	1.67	0.58
2:1D:197:LEU:HD22	26:4K:255:VAL:HG21	1.84	0.58
2:1F:80:GLN:HE22	42:HM:343:PHE:H	1.49	0.58
20:3N:109:SER:O	41:BB:276:ARG:NE	2.35	0.58
33:5V:130:LYS:O	33:5W:13:ARG:NH2	2.36	0.58
33:5W:147:THR:HG23	33:5W:250:THR:HB	1.85	0.58
34:6C:405:ARG:O	34:6C:406:ARG:C	2.42	0.58
37:7E:192:VAL:HG12	37:7E:193:THR:HG23	1.84	0.58
41:BD:202:ILE:HD12	41:BD:229:VAL:HG13	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BF:68:LEU:HD23	41:BF:93:GLY:HA3	1.84	0.58
41:CF:256:ASN:ND2	42:CG:181:VAL:H	2.01	0.58
41:CH:309:ARG:HD3	41:CH:342:VAL:HA	1.85	0.58
41:CJ:68:LEU:HD12	41:CJ:97:ALA:HB2	1.85	0.58
41:DF:256:ASN:HD21	42:DG:180:ALA:HA	1.68	0.58
41:DF:315:ALA:N	41:DF:350:LYS:O	2.36	0.58
42:EG:11:GLN:O	42:EG:12:ALA:C	2.41	0.58
41:EJ:318:ARG:NH1	41:EJ:356:ILE:O	2.35	0.58
42:FG:50:ASN:O	42:FG:64:ARG:NH1	2.36	0.58
41:FJ:333:VAL:O	41:FJ:337:ASN:N	2.31	0.58
41:GH:412:GLU:OE2	41:GH:416:ASN:ND2	2.37	0.58
41:GL:210:ILE:O	41:GL:214:THR:OG1	2.20	0.58
42:HE:60:LYS:NZ	42:HE:85:GLN:O	2.36	0.58
42:HM:48:SER:O	42:HM:49:PHE:C	2.40	0.58
42:HM:119:LEU:HD21	42:HM:156:ARG:HB3	1.85	0.58
42:IK:21:TRP:HA	42:IK:24:TYR:HD1	1.68	0.58
42:JG:188:ILE:HD12	42:JG:425:MET:HG3	1.84	0.58
41:KF:131:GLN:HE22	41:KF:250:LEU:HB2	1.68	0.58
41:KH:251:ARG:NH1	42:KI:97:GLU:OE2	2.36	0.58
41:KJ:320:ARG:NH1	41:KJ:355:ASP:O	2.36	0.58
42:KM:261:PRO:HA	41:KN:394:PHE:CD1	2.38	0.58
41:KN:48:ASN:O	41:KN:62:ARG:NH2	2.37	0.58
42:OC:228:ASN:HD21	45:OC:501:GTP:HN1	1.50	0.58
41:OF:320:ARG:NH1	41:OF:355:ASP:OD1	2.36	0.58
41:OJ:64:VAL:HA	41:OJ:89:ASN:HD22	1.68	0.58
41:PH:167:PHE:HA	41:PH:200:TYR:O	2.02	0.58
41:PL:198:GLU:HA	41:PL:266:PHE:HE2	1.68	0.58
41:RB:173:PRO:HB3	41:RB:380:ARG:HD3	1.84	0.58
42:RC:319:TYR:HB3	42:RC:323:VAL:HG21	1.85	0.58
41:RF:420:SER:HA	41:RF:423:GLN:HB2	1.86	0.58
42:TC:49:PHE:HB2	42:TC:53:PHE:HB2	1.86	0.58
42:TE:11:GLN:HG2	42:TE:74:VAL:HG21	1.85	0.58
41:TH:263:LEU:HD13	41:TH:311:LEU:HD11	1.85	0.58
41:TH:273:LEU:O	41:TH:292:GLN:NE2	2.30	0.58
41:TJ:252:LYS:HG2	42:TK:100:ALA:HA	1.85	0.58
42:UK:204:VAL:HG23	42:UK:302:MET:HB3	1.85	0.58
41:UL:206:ALA:HB2	41:UL:302:ALA:H	1.68	0.58
42:WK:371:VAL:HG12	42:WK:373:ARG:H	1.68	0.58
19:3J:473:VAL:HG23	19:3J:484:TYR:HB2	1.84	0.58
19:3K:216:ARG:NH2	41:BH:224:ASP:OD2	2.34	0.58
20:3P:419:THR:OG1	20:3P:421:ARG:NH1	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:4F:110:LEU:HD22	41:HD:32:PRO:HG2	1.85	0.58
34:6B:352:ALA:O	34:6B:356:ASP:HB3	2.04	0.58
36:6Y:111:ARG:NE	36:6Y:112:PRO:HD2	2.18	0.58
42:AI:88:HIS:HB2	42:BI:283:HIS:HB3	1.85	0.58
42:BC:238:ILE:HG23	42:BC:255:PHE:HE2	1.68	0.58
41:BH:67:ASP:OD2	41:BH:72:THR:OG1	2.22	0.58
42:CC:166:LYS:HB2	42:CC:198:SER:HA	1.86	0.58
41:CF:198:GLU:HG2	41:CF:266:PHE:CE2	2.38	0.58
42:CM:27:GLU:OE2	42:CM:320:ARG:NH2	2.36	0.58
41:DJ:371:SER:C	41:DJ:373:ALA:H	2.05	0.58
41:ED:271:ALA:HB3	41:ED:272:PRO:HD3	1.85	0.58
42:EE:408:TYR:HB3	42:EE:418:PHE:CZ	2.38	0.58
42:EM:321:GLY:HA3	42:EM:373:ARG:HA	1.84	0.58
41:FD:7:LEU:HD21	41:FD:120:VAL:HG21	1.85	0.58
41:FF:334:GLN:HE22	41:FF:349:VAL:HG23	1.68	0.58
42:FK:384:ILE:O	42:FK:385:ALA:C	2.41	0.58
41:FL:153:SER:HA	41:FL:156:ARG:NE	2.19	0.58
42:GG:320:ARG:HE	42:GG:360:PRO:HG3	1.67	0.58
41:HH:87:PRO:HA	41:HH:90:PHE:HD2	1.69	0.58
41:HJ:222:TYR:HA	41:HJ:225:LEU:HD12	1.84	0.58
42:KK:396:ASP:OD1	42:KK:422:ARG:NH2	2.34	0.58
42:LG:264:ARG:NH1	42:LG:431:ASP:OD1	2.36	0.58
41:NB:246:LEU:HD11	45:NC:501:GTP:H5''	1.85	0.58
42:NC:301:GLN:HG3	42:NC:307:PRO:HG3	1.86	0.58
42:NC:401:LYS:O	42:NC:402:ARG:C	2.41	0.58
42:NK:209:ILE:HG21	42:NK:227:LEU:HG	1.85	0.58
42:NK:243:ARG:HD3	42:NK:244:PHE:CD2	2.38	0.58
42:OA:188:ILE:HG22	42:OA:421:ALA:HB1	1.85	0.58
42:OE:440:VAL:H	41:OF:391:ARG:HH22	1.52	0.58
42:OG:296:PHE:HE2	42:OG:317:LEU:HD21	1.67	0.58
42:OK:320:ARG:HB3	42:OK:374:ALA:HB3	1.85	0.58
41:OL:316:VAL:HA	41:OL:352:ALA:HB3	1.86	0.58
41:PD:68:LEU:HB2	41:PD:143:THR:HG22	1.84	0.58
41:PD:254:ALA:HA	41:PD:257:MET:HB2	1.86	0.58
42:PI:291:ILE:HG12	42:PI:375:VAL:HG12	1.83	0.58
41:QL:20:PHE:HB3	41:QL:233:MET:SD	2.43	0.58
42:RE:208:ALA:HB2	42:RE:304:LYS:HG2	1.85	0.58
41:RH:12:CYS:HB3	41:RH:138:SER:HB3	1.85	0.58
41:RH:156:ARG:HD3	41:RH:164:MET:HG2	1.85	0.58
41:SD:102:ALA:HB1	41:SD:401:GLU:HG2	1.85	0.58
42:SE:138:PHE:HZ	42:SE:235:VAL:HG21	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:TC:134:GLY:HA3	42:TC:252:LEU:HD13	1.85	0.58
42:TC:286:LEU:HD21	42:TC:291:ILE:HD11	1.85	0.58
42:TE:120:ASP:OD2	42:TE:124:LYS:NZ	2.37	0.58
42:TG:174:ALA:HB3	42:TG:178:SER:HB2	1.85	0.58
42:TG:434:GLU:O	41:TH:391:ARG:NH2	2.36	0.58
41:TL:256:ASN:HD21	42:TM:101:ASN:HD22	1.50	0.58
42:TM:345:ASP:HB2	42:TM:438:ASP:HB2	1.83	0.58
41:UD:270:PHE:CD2	41:UD:273:LEU:HG	2.38	0.58
41:UF:268:PRO:HG2	41:UF:300:MET:HB2	1.86	0.58
41:UH:3:GLU:HB2	41:UH:130:LEU:HA	1.86	0.58
41:UH:372:THR:HG23	41:UH:422:TYR:HB3	1.85	0.58
41:UL:193:VAL:HG23	41:UL:265:PHE:HE2	1.69	0.58
42:VI:98:ASP:O	42:VI:105:ARG:NH1	2.36	0.58
42:WC:192:HIS:ND1	42:WC:192:HIS:O	2.36	0.58
42:WE:262:TYR:H	42:WE:262:TYR:HD2	1.51	0.58
42:WG:180:ALA:HB3	42:WG:183:GLU:HG2	1.84	0.58
22:4C:34:THR:O	22:4C:38:MET:N	2.35	0.58
24:4F:41:GLN:HG3	41:MD:212:PHE:CD1	2.38	0.58
25:4I:246:LYS:HE3	25:4I:258:ILE:HG21	1.85	0.58
27:4P:154:LYS:O	27:4P:158:ASN:N	2.36	0.58
27:4P:160:ARG:HH22	41:AD:420:SER:HB3	1.69	0.58
27:4Q:157:LEU:HD12	27:4Q:165:ILE:HG12	1.86	0.58
35:6T:154:ASP:HA	35:6T:157:GLN:HG2	1.86	0.58
42:AI:105:ARG:HE	42:AI:110:ILE:HD11	1.68	0.58
41:BD:248:ALA:HA	41:BD:252:LYS:HD3	1.86	0.58
42:BI:51:THR:HG22	42:BI:243:ARG:HG3	1.84	0.58
42:BI:135:PHE:HZ	42:BI:161:TYR:HB2	1.68	0.58
42:BI:350:GLY:H	41:BJ:179:VAL:HG23	1.68	0.58
41:BL:309:ARG:NH2	41:BL:343:GLU:OE1	2.36	0.58
41:CD:272:PRO:HB2	41:CD:361:LEU:HD21	1.84	0.58
42:CE:224:TYR:HA	42:CE:227:LEU:HD23	1.85	0.58
42:CE:409:VAL:HA	42:CE:413:MET:HB2	1.86	0.58
41:CF:239:CYS:HG	41:CF:354:CYS:HG	1.51	0.58
41:CJ:104:GLY:HA2	41:CJ:109:GLY:CA	2.33	0.58
41:CJ:391:ARG:O	41:CJ:392:LYS:C	2.41	0.58
42:DC:286:LEU:O	42:DC:373:ARG:NH1	2.36	0.58
42:DK:109:THR:HG23	42:DK:111:GLY:H	1.68	0.58
42:EC:34:GLY:HA3	42:EC:60:LYS:HE3	1.84	0.58
41:GL:33:THR:O	41:GL:58:LYS:NZ	2.33	0.58
42:HC:319:TYR:HD2	42:HC:375:VAL:HG22	1.68	0.58
42:HG:27:GLU:HG2	42:HG:361:THR:HG21	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:HG:401:LYS:O	42:HG:402:ARG:C	2.42	0.58
42:HI:63:PRO:HD3	42:HI:86:LEU:HG	1.85	0.58
42:HI:160:ASP:O	42:HI:161:TYR:C	2.41	0.58
42:HK:27:GLU:OE2	42:HK:358:GLN:NE2	2.36	0.58
42:IG:2:ARG:NH2	42:IG:47:ASP:O	2.37	0.58
42:IG:271:THR:HB	42:IG:377:MET:HB3	1.83	0.58
41:IJ:245:GLN:NE2	41:IJ:323:MET:SD	2.77	0.58
41:IN:346:PRO:O	41:IN:347:ASN:C	2.41	0.58
41:LJ:48:ASN:O	41:LJ:62:ARG:NH2	2.35	0.58
41:OF:256:ASN:ND2	41:OF:350:LYS:HD3	2.19	0.58
41:OL:204:ASN:HA	41:OL:207:LEU:HD12	1.85	0.58
42:PK:80:THR:HA	42:PK:84:ARG:HD3	1.85	0.58
42:QE:238:ILE:HD12	42:QE:378:LEU:HD11	1.85	0.58
41:QJ:30:ILE:HA	41:QJ:36:TYR:HD1	1.67	0.58
42:RE:4:CYS:HB2	42:RE:52:PHE:HE1	1.69	0.58
41:RF:200:TYR:HE1	41:RF:368:ILE:HG12	1.68	0.58
41:RF:231:ALA:HB3	41:RF:270:PHE:CZ	2.37	0.58
41:RH:282:ARG:HH12	41:RH:284:LEU:HA	1.68	0.58
42:RK:286:LEU:HB3	42:RK:291:ILE:HD11	1.83	0.58
42:SG:224:TYR:O	42:SG:228:ASN:ND2	2.29	0.58
42:TI:261:PRO:HB3	42:TI:346:TRP:HH2	1.67	0.58
42:UG:69:ASP:HB2	42:UG:75:ILE:HG13	1.85	0.58
42:UI:56:THR:HA	42:VI:285:GLN:NE2	2.14	0.58
42:WE:206:ASN:HD21	45:WE:501:GTP:HN22	1.51	0.58
41:WH:255:VAL:HG21	42:WI:100:ALA:O	2.03	0.58
41:WN:178:THR:HB	41:WN:181:GLU:HG2	1.84	0.58
6:1R:43:ARG:HH11	41:JL:74:ASP:HB3	1.69	0.58
20:3Q:495:VAL:HG12	20:3Q:582:ASP:HB3	1.86	0.58
30:5A:83:GLU:HA	30:5A:86:ASP:HB2	1.86	0.58
33:5R:295:GLU:HG3	33:5R:299:HIS:CE1	2.38	0.58
34:6M:344:ASN:HA	34:6M:347:PHE:HD2	1.67	0.58
37:7C:140:ALA:HB1	42:TK:308:ARG:HH12	1.68	0.58
41:AF:87:PRO:HA	41:AF:90:PHE:HD2	1.68	0.58
41:AJ:3:GLU:HG2	41:AJ:49:VAL:HA	1.85	0.58
42:BE:12:ALA:HB1	42:BE:171:ILE:HD12	1.85	0.58
41:CJ:135:LEU:HD22	41:CJ:152:ILE:HD11	1.86	0.58
42:DC:56:THR:HG23	42:DC:58:ALA:H	1.67	0.58
42:DC:258:ASN:HD22	42:DC:352:LYS:HB2	1.67	0.58
41:DH:297:LYS:HZ3	41:DH:297:LYS:H	1.49	0.58
42:DI:3:GLU:HA	42:DI:51:THR:HA	1.85	0.58
42:EC:14:VAL:HG12	42:EC:67:PHE:HD2	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:ED:254:ALA:O	41:ED:255:VAL:C	2.41	0.58
41:ED:313:VAL:HG22	41:ED:367:PHE:HE1	1.69	0.58
42:EG:72:PRO:O	42:EG:73:THR:C	2.41	0.58
42:EM:70:LEU:HD11	42:EM:99:ALA:HB2	1.86	0.58
42:FC:148:GLY:O	42:FC:150:THR:N	2.36	0.58
41:FD:277:GLY:HA2	41:FD:280:GLN:HE21	1.69	0.58
41:FH:87:PRO:HA	41:FH:90:PHE:HD2	1.69	0.58
42:HC:316:CYS:HB3	42:HC:378:LEU:HD12	1.84	0.58
42:HE:218:ASP:OD2	42:HE:280:LYS:NZ	2.33	0.58
41:HF:21:TRP:CE2	41:HF:61:PRO:HB3	2.39	0.58
42:HI:70:LEU:HB2	42:HI:149:PHE:HE2	1.68	0.58
41:HJ:155:ILE:HD12	41:HJ:159:TYR:HE2	1.67	0.58
41:ID:121:ARG:NH1	41:ID:158:GLU:OE2	2.37	0.58
41:IF:270:PHE:HB3	41:IF:273:LEU:HD11	1.85	0.58
41:IN:262:ARG:O	41:IN:264:HIS:N	2.35	0.58
42:LK:269:LEU:HD22	42:LK:303:VAL:HG21	1.85	0.58
42:MK:2:ARG:HB2	42:MK:242:LEU:HD22	1.86	0.58
42:NI:63:PRO:HG3	42:NI:87:PHE:HD1	1.68	0.58
41:NJ:236:VAL:HG23	41:NJ:237:THR:HG23	1.85	0.58
41:PD:65:LEU:HB3	41:PD:90:PHE:HA	1.86	0.58
41:PD:139:LEU:HA	41:PD:145:SER:HB2	1.85	0.58
42:PK:75:ILE:HG23	42:PK:92:LEU:HD12	1.84	0.58
41:QB:7:LEU:HD22	41:QB:135:LEU:HD22	1.86	0.58
42:QI:310:GLY:HA2	42:QI:382:THR:HG22	1.86	0.58
42:QK:53:PHE:HB3	42:QK:61:HIS:HB3	1.86	0.58
42:RE:93:ILE:HD11	42:RE:121:ARG:HG3	1.84	0.58
42:RG:54:SER:HB2	42:RG:64:ARG:HE	1.69	0.58
42:RK:311:LYS:NZ	42:RK:436:GLY:O	2.35	0.58
41:RL:113:VAL:HG22	41:RL:150:LEU:HD21	1.85	0.58
42:SE:328:VAL:HG11	42:SE:355:ILE:HD11	1.85	0.58
41:SH:50:TYR:H	41:SH:62:ARG:NH2	2.02	0.58
41:SL:54:ALA:HA	41:TL:283:ALA:HB2	1.86	0.58
42:TC:16:ILE:O	42:TC:20:CYS:N	2.36	0.58
42:TE:56:THR:HA	42:UE:285:GLN:HB3	1.86	0.58
42:TE:199:ASP:OD1	42:TE:256:GLN:NE2	2.36	0.58
42:TI:10:GLY:HA2	42:TI:145:THR:HB	1.86	0.58
42:UC:16:ILE:HD11	45:UC:501:GTP:N2	2.17	0.58
42:UI:271:THR:HB	42:UI:377:MET:HB3	1.83	0.58
42:UM:11:GLN:HG2	42:UM:74:VAL:HG11	1.85	0.58
42:UM:250:VAL:HG23	42:UM:254:GLU:HB3	1.85	0.58
41:VD:271:ALA:HB2	41:VD:293:MET:HB3	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:1O:2:ALA:HA	42:KG:348:PRO:HA	1.86	0.58
19:3K:313:LEU:HD21	41:CH:215:LEU:HD13	1.85	0.58
32:5L:347:ASN:OD1	32:5M:48:ILE:HD12	2.03	0.58
33:5V:75:LYS:HG3	33:5V:179:LYS:HB3	1.84	0.58
34:6B:393:LEU:HB2	34:6B:427:VAL:HG11	1.85	0.58
34:6F:243:GLN:NE2	34:6F:247:ASN:OD1	2.36	0.58
34:6M:267:ILE:HG23	34:6N:402:GLU:HG3	1.85	0.58
37:7D:38:PHE:HB2	37:7D:47:ARG:HH21	1.68	0.58
42:AK:336:LYS:HB3	42:AK:339:ARG:HE	1.67	0.58
42:BE:211:ASP:OD2	42:BE:215:ARG:NH1	2.36	0.58
42:CC:344:VAL:HG13	42:CC:346:TRP:H	1.69	0.58
41:CH:246:LEU:HD11	42:CI:224:TYR:HE2	1.67	0.58
42:CI:136:LEU:HD12	42:CI:169:PHE:HE1	1.68	0.58
41:CJ:104:GLY:CA	41:CJ:109:GLY:HA3	2.33	0.58
42:CK:64:ARG:HB2	42:CK:125:LEU:HD11	1.86	0.58
42:CK:292:THR:HG1	42:CK:319:TYR:HH	1.50	0.58
42:CM:105:ARG:NH1	42:CM:411:GLU:OE2	2.36	0.58
42:DE:137:ILE:HD13	42:DE:154:MET:HE1	1.86	0.58
42:DK:7:VAL:HG13	42:DK:137:ILE:HG13	1.85	0.58
42:DK:9:VAL:HB	42:DK:68:VAL:HG13	1.85	0.58
41:EH:379:LYS:HD3	41:EH:419:VAL:HG11	1.85	0.58
42:EK:321:GLY:HA3	42:EK:373:ARG:HA	1.85	0.58
41:FH:377:LEU:HD22	41:FH:380:ARG:HE	1.67	0.58
42:FI:208:ALA:HB2	42:FI:304:LYS:HG3	1.86	0.58
41:HD:86:ARG:HD3	41:ID:282:ARG:CZ	2.34	0.58
41:HD:131:GLN:HE22	41:HD:250:LEU:H	1.51	0.58
42:IM:28:HIS:CE1	42:IM:243:ARG:HD2	2.39	0.58
41:JJ:324:LYS:HB2	42:JK:222:PRO:CD	2.33	0.58
42:JM:152:LEU:HD22	42:JM:156:ARG:HH22	1.69	0.58
41:LD:97:ALA:HB3	41:LD:143:THR:HG22	1.86	0.58
42:MK:217:LEU:HD23	42:MK:218:ASP:H	1.67	0.58
42:OK:356:ASN:OD1	42:OK:357:TYR:N	2.36	0.58
41:PD:19:LYS:HA	41:PD:22:GLU:HB2	1.85	0.58
41:PH:170:VAL:HG21	41:PH:377:LEU:HD21	1.85	0.58
42:PI:166:LYS:O	42:PI:168:GLU:N	2.36	0.58
41:PL:142:GLY:N	43:PL:501:GDP:O2B	2.36	0.58
42:QE:99:ALA:HA	42:QE:105:ARG:HB3	1.86	0.58
41:QF:346:PRO:HB3	42:QG:394:LYS:HD2	1.85	0.58
42:SE:9:VAL:HG23	42:SE:145:THR:HG22	1.83	0.58
42:TE:229:ARG:HD2	42:TE:363:VAL:HG11	1.83	0.58
41:UD:8:GLN:HB2	41:UD:65:LEU:HA	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:UD:310:TYR:HA	41:UD:371:SER:HA	1.85	0.58
41:UH:163:ILE:HD13	41:UH:250:LEU:HB3	1.84	0.58
41:VD:107:THR:HG23	41:VD:108:GLU:OE2	2.03	0.58
41:WJ:287:PRO:HA	41:WJ:329:GLN:HE22	1.68	0.58
42:WK:247:ALA:HB3	42:WK:355:ILE:HB	1.85	0.58
9:2D:601:LYS:HD2	42:JM:278:ALA:HB1	1.84	0.58
20:3O:646:ARG:NH2	41:ED:38:GLY:H	2.01	0.58
22:4C:195:SER:O	22:4C:199:LEU:N	2.31	0.58
26:4L:140:TYR:HB3	41:GH:110:ALA:HB1	1.85	0.58
34:6C:282:SER:OG	34:6C:283:TYR:N	2.37	0.58
35:6V:339:LEU:HB3	35:6V:395:LEU:HD12	1.86	0.58
42:AI:9:VAL:HG23	42:AI:145:THR:HG22	1.85	0.58
41:BL:228:LEU:HD22	41:BL:273:LEU:HD11	1.86	0.58
41:CB:19:LYS:HE2	41:CB:227:HIS:HB2	1.86	0.58
42:CI:352:LYS:HA	41:CJ:177:ASP:O	2.04	0.58
41:CJ:137:HIS:CE1	41:CJ:168:SER:HB3	2.39	0.58
42:DG:348:PRO:HB2	41:DH:384:GLN:HE21	1.69	0.58
41:DH:204:ASN:HB3	43:DH:501:GDP:HN22	1.68	0.58
41:DJ:109:GLY:O	41:DJ:110:ALA:C	2.42	0.58
41:DL:316:VAL:HA	41:DL:352:ALA:HB3	1.85	0.58
42:FK:150:THR:HG22	42:FK:154:MET:HG2	1.85	0.58
42:FK:261:PRO:HB3	42:FK:346:TRP:CH2	2.38	0.58
41:GD:385:PHE:HZ	41:GD:408:PHE:HB3	1.66	0.58
42:HI:259:LEU:HD21	42:HI:378:LEU:HB2	1.85	0.58
41:HJ:101:TRP:NE1	41:HJ:403:MET:SD	2.74	0.58
42:IE:310:GLY:HA3	42:IE:383:ALA:HB2	1.84	0.58
41:IF:270:PHE:O	41:IF:298:ASN:ND2	2.37	0.58
42:IK:389:ALA:HB2	42:IK:429:GLU:HG3	1.86	0.58
41:KD:10:GLY:O	41:KD:14:ASN:ND2	2.36	0.58
42:LM:254:GLU:OE2	41:LN:99:ASN:ND2	2.37	0.58
41:MN:215:LEU:O	41:MN:216:LYS:C	2.41	0.58
42:NG:291:ILE:HG23	42:NG:375:VAL:HG12	1.86	0.58
42:PA:10:GLY:HA2	42:PA:145:THR:HB	1.85	0.58
42:PG:25:CYS:O	42:PG:30:ILE:HB	2.02	0.58
41:QB:309:ARG:H	41:QB:372:THR:HB	1.68	0.58
41:QD:324:LYS:HE3	42:QE:214:ARG:HD3	1.84	0.58
42:QG:320:ARG:HG3	42:QG:356:ASN:HB3	1.86	0.58
41:QH:347:ASN:HD21	42:QI:181:VAL:HA	1.68	0.58
42:QI:277:SER:HA	42:QI:369:ALA:H	1.69	0.58
41:RB:156:ARG:HH11	41:RB:195:ASN:HA	1.69	0.58
42:RC:155:GLU:HA	42:RC:197:HIS:CE1	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:RD:405:GLU:HA	41:RD:408:PHE:HD2	1.69	0.58
42:RI:259:LEU:HG	42:RI:260:VAL:HG13	1.85	0.58
42:RI:317:LEU:HD23	42:RI:377:MET:HG2	1.86	0.58
42:SI:246:GLY:HA3	42:SI:356:ASN:HA	1.84	0.58
42:TC:161:TYR:O	42:TC:166:LYS:NZ	2.36	0.58
41:TJ:253:LEU:HD12	41:TJ:368:ILE:HD11	1.85	0.58
41:UF:237:THR:HG22	41:UF:250:LEU:HD11	1.85	0.58
41:VJ:130:LEU:HD21	41:VJ:133:PHE:HE1	1.68	0.58
42:VK:180:ALA:HB3	42:VK:183:GLU:HG3	1.84	0.58
10:2H:157:GLY:O	41:VL:48:ASN:ND2	2.36	0.58
13:2S:173:GLN:NE2	42:FG:57:GLY:O	2.37	0.58
19:3K:27:ARG:NH2	42:LG:241:SER:O	2.37	0.58
19:3L:29:GLN:OE1	42:LK:1:MET:N	2.31	0.58
20:3P:67:PHE:HB2	20:3P:90:ILE:HG23	1.85	0.58
20:3Q:548:LEU:HD21	20:3Q:575:LEU:HD12	1.85	0.58
22:4C:192:PHE:HA	42:DG:221:ARG:HD2	1.86	0.58
25:4J:185:ARG:NH1	25:4J:197:GLY:O	2.37	0.58
32:5M:194:ASN:HA	33:5V:413:ARG:HG3	1.85	0.58
33:5V:321:ARG:HH12	33:5V:335:GLN:HG2	1.69	0.58
34:6F:126:ARG:NH1	34:6F:127:LEU:HB2	2.19	0.58
35:6Q:231:TYR:HB3	35:6R:352:VAL:HG22	1.86	0.58
37:7C:116:PHE:HB3	42:TM:214:ARG:HH12	1.69	0.58
41:AB:207:LEU:HB3	41:AB:225:LEU:HG	1.85	0.58
42:CG:385:ALA:HA	42:CG:388:TRP:CE3	2.39	0.58
41:CH:14:ASN:HB3	41:CH:76:VAL:HG11	1.84	0.58
41:CL:95:SER:OG	41:CL:96:GLY:N	2.36	0.58
42:CM:211:ASP:O	42:CM:215:ARG:HG2	2.04	0.58
41:DB:390:ARG:HH12	41:DB:391:ARG:HH11	1.49	0.58
42:DC:228:ASN:HA	42:DC:231:ILE:HG22	1.85	0.58
42:DE:180:ALA:HB3	42:DE:183:GLU:HB2	1.85	0.58
41:DH:227:HIS:O	41:DH:229:VAL:N	2.36	0.58
41:DJ:395:LEU:O	41:DJ:398:TYR:N	2.37	0.58
41:EH:214:THR:HB	41:EH:278:SER:HB2	1.85	0.58
42:FC:11:GLN:HB2	42:FC:74:VAL:HG21	1.84	0.58
42:FI:402:ARG:HD3	42:FI:405:VAL:HG11	1.86	0.58
41:FL:252:LYS:HG2	41:FL:256:ASN:ND2	2.17	0.58
41:GF:169:VAL:HA	41:GF:202:ILE:HB	1.84	0.58
42:GI:271:THR:HB	42:GI:377:MET:HB3	1.86	0.58
41:HD:44:LEU:O	41:HD:45:GLU:C	2.41	0.58
42:HE:195:LEU:HD21	42:HE:428:LEU:HD22	1.85	0.58
42:HG:333:ALA:O	42:HG:337:THR:HG22	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:HK:5:ILE:HG12	42:HK:132:LEU:HD13	1.85	0.58
41:ID:319:GLY:HA2	41:ID:357:PRO:HG3	1.86	0.58
41:IL:308:GLY:HA2	41:IL:372:THR:HB	1.86	0.58
41:IN:298:ASN:O	41:IN:299:MET:C	2.42	0.58
41:JJ:392:LYS:HA	41:JJ:395:LEU:HD13	1.85	0.58
41:JL:270:PHE:HB3	41:JL:273:LEU:HD11	1.86	0.58
41:KF:290:THR:HG21	41:KF:329:GLN:HB3	1.85	0.58
41:KH:268:PRO:HG2	41:KH:300:MET:HB2	1.85	0.58
42:KM:320:ARG:HD3	42:KM:360:PRO:HG3	1.86	0.58
41:LJ:283:ALA:HB2	41:MJ:54:ALA:HA	1.85	0.58
42:NI:371:VAL:HG22	42:NI:373:ARG:H	1.69	0.58
41:NL:152:ILE:HG23	41:NL:195:ASN:HD21	1.69	0.58
41:OF:196:THR:OG1	41:OF:264:HIS:NE2	2.37	0.58
41:PB:25:SER:HB2	41:PB:30:ILE:HB	1.85	0.58
42:PG:349:THR:OG1	41:PH:176:SER:HB3	2.04	0.58
41:QB:86:ARG:NH2	41:RB:281:TYR:O	2.36	0.58
42:QC:234:ILE:HD11	42:QC:302:MET:SD	2.44	0.58
41:QD:390:ARG:HG3	41:QD:391:ARG:H	1.68	0.58
42:QG:276:ILE:HG23	42:QG:280:LYS:HG2	1.84	0.58
41:QJ:271:ALA:HB2	41:QJ:293:MET:HG3	1.86	0.58
41:QJ:385:PHE:HZ	41:QJ:408:PHE:HB3	1.68	0.58
42:RG:101:ASN:ND2	45:RG:501:GTP:O1A	2.36	0.58
42:RI:101:ASN:HD22	42:RI:143:GLY:HA2	1.69	0.58
41:SF:263:LEU:HD21	41:SF:421:GLU:HB2	1.86	0.58
41:SJ:257:MET:O	41:SJ:370:ASN:ND2	2.36	0.58
42:SK:98:ASP:O	42:SK:105:ARG:NH2	2.37	0.58
42:TC:112:LYS:HA	42:TC:115:ILE:HG12	1.86	0.58
42:UC:115:ILE:HD11	42:UC:156:ARG:HG3	1.85	0.58
41:UF:3:GLU:OE2	41:UF:62:ARG:NE	2.36	0.58
41:UF:309:ARG:NH1	41:UF:341:PHE:O	2.36	0.58
42:UK:9:VAL:HG23	42:UK:68:VAL:HB	1.85	0.58
42:VE:320:ARG:HB3	42:VE:374:ALA:HB3	1.86	0.58
41:WF:394:PHE:HB3	41:WF:397:TRP:HZ3	1.69	0.58
9:2D:567:TYR:CD1	41:IN:276:ARG:NH2	2.71	0.58
20:3O:246:ILE:HG21	20:3O:270:LEU:HB2	1.85	0.58
25:4I:27:LEU:HB2	25:4I:36:GLU:HB3	1.85	0.58
27:4P:44:VAL:HG21	41:KF:122:LYS:HA	1.85	0.58
30:5A:214:LYS:HE2	42:MG:56:THR:HG21	1.86	0.58
34:6A:195:ALA:HA	34:6A:477:ARG:HH12	1.68	0.58
34:6F:280:GLY:HA2	35:6U:37:THR:HB	1.84	0.58
42:AE:70:LEU:HA	42:AE:95:GLY:HA3	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:AE:326:LYS:HE2	41:AF:219:THR:HA	1.85	0.58
42:AK:5:ILE:HG22	42:AK:132:LEU:HD11	1.86	0.58
42:BC:10:GLY:HA2	42:BC:145:THR:HG23	1.85	0.58
41:DH:316:VAL:O	41:DH:365:ALA:HA	2.04	0.58
42:DI:250:VAL:HG23	42:DI:254:GLU:HB2	1.86	0.58
42:EG:220:GLU:O	42:EG:221:ARG:HB2	2.04	0.58
41:EJ:316:VAL:HA	41:EJ:352:ALA:HB3	1.86	0.58
42:EM:302:MET:O	42:EM:303:VAL:C	2.42	0.58
42:FG:172:TYR:HB3	42:FG:205:ASP:HA	1.86	0.58
42:FG:318:LEU:HD23	42:FG:378:LEU:HD13	1.85	0.58
42:FK:344:VAL:HG22	42:FK:346:TRP:HB3	1.85	0.58
41:FL:267:MET:SD	41:FL:303:CYS:SG	3.01	0.58
42:FM:28:HIS:HB2	42:FM:30:ILE:HG12	1.84	0.58
41:GH:274:THR:OG1	41:GH:275:SER:N	2.36	0.58
42:GM:209:ILE:HD11	42:GM:302:MET:HG3	1.86	0.58
42:HI:238:ILE:HD11	42:HI:378:LEU:HD21	1.86	0.58
41:IF:331:LEU:HD21	42:IG:176:GLN:HG3	1.86	0.58
42:JK:58:ALA:O	42:JK:59:GLY:C	2.42	0.58
42:JK:232:GLY:O	42:JK:235:VAL:HG12	2.02	0.58
42:KC:264:ARG:HH12	42:KC:428:LEU:HB2	1.69	0.58
41:LJ:372:THR:HG21	41:LJ:426:GLN:HB2	1.86	0.58
42:MC:248:LEU:HB2	42:MC:355:ILE:H	1.68	0.58
42:MG:112:LYS:HD3	42:MG:152:LEU:HD21	1.86	0.58
42:NG:319:TYR:HB3	42:NG:323:VAL:HG21	1.85	0.58
42:NK:273:ALA:HB2	42:NK:375:VAL:HG13	1.85	0.58
42:OA:10:GLY:HA2	42:OA:145:THR:HG23	1.85	0.58
42:OE:195:LEU:HD21	42:OE:428:LEU:HD13	1.84	0.58
42:OK:209:ILE:HA	42:OK:212:ILE:HG22	1.85	0.58
42:PC:238:ILE:HA	42:PC:318:LEU:HD22	1.86	0.58
41:PD:69:GLU:HG2	41:PD:71:GLY:H	1.69	0.58
41:PD:318:ARG:HB3	41:PD:357:PRO:HA	1.85	0.58
42:PG:27:GLU:HA	42:PG:361:THR:HG21	1.85	0.58
42:PI:206:ASN:CG	45:PI:501:GTP:HN22	2.04	0.58
42:QE:437:MET:O	41:QF:391:ARG:NH1	2.37	0.58
41:QH:391:ARG:O	41:QH:392:LYS:C	2.42	0.58
42:RI:316:CYS:HB2	42:RI:378:LEU:HB2	1.85	0.58
42:SG:254:GLU:OE2	42:SG:258:ASN:ND2	2.35	0.58
41:SH:164:MET:O	41:SH:196:THR:OG1	2.21	0.58
41:SJ:322:SER:OG	42:SK:222:PRO:O	2.22	0.58
42:TG:115:ILE:HG12	42:TG:152:LEU:HD13	1.84	0.58
42:UE:286:LEU:HB3	42:UE:291:ILE:HD11	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:UK:224:TYR:HA	42:UK:227:LEU:HD23	1.86	0.58
42:WC:173:PRO:HG2	42:WC:391:LEU:HD11	1.85	0.58
41:WN:310:TYR:HA	41:WN:371:SER:HA	1.86	0.58
3:1I:259:ILE:HD12	42:SG:59:GLY:H	1.68	0.58
9:2D:488:ARG:NH2	42:IK:368:LEU:O	2.37	0.58
11:2K:349:GLU:OE2	41:VJ:276:ARG:NH2	2.37	0.58
27:4O:120:THR:HG22	27:4O:122:PRO:HD2	1.86	0.58
27:4O:172:LEU:HD22	27:4O:232:PHE:HZ	1.69	0.58
33:5Q:67:ARG:NH1	33:5R:332:ASP:OD1	2.37	0.58
35:6Q:154:ASP:OD1	35:6Q:157:GLN:NE2	2.36	0.58
37:7E:137:PRO:HG2	42:NK:123:ARG:HG3	1.86	0.58
41:AJ:86:ARG:HD3	41:AJ:88:ASP:HB2	1.84	0.58
42:BI:217:LEU:HB3	42:BI:219:ILE:HG22	1.86	0.58
41:BJ:12:CYS:HB3	41:BJ:138:SER:HB3	1.86	0.58
41:CF:258:VAL:HG22	41:CF:266:PHE:HZ	1.69	0.58
41:DD:131:GLN:HE22	41:DD:250:LEU:HG	1.68	0.58
41:DD:309:ARG:NH1	41:DD:339:SER:O	2.37	0.58
42:DE:172:TYR:HE2	42:DE:387:ALA:HB1	1.68	0.58
42:DE:278:ALA:HA	42:DE:369:ALA:HB2	1.86	0.58
41:DF:262:ARG:NH2	41:DF:414:ASN:OD1	2.37	0.58
42:DG:286:LEU:O	42:DG:373:ARG:NH1	2.37	0.58
42:DI:71:GLU:HG3	42:DI:98:ASP:HA	1.85	0.58
42:DM:304:LYS:HD2	42:DM:304:LYS:N	2.18	0.58
42:EC:372:GLN:HG2	42:EC:373:ARG:HG3	1.86	0.58
41:EJ:73:MET:HA	41:EJ:76:VAL:HG12	1.85	0.58
41:FH:202:ILE:HA	41:FH:301:ALA:HA	1.86	0.58
41:GF:156:ARG:NH1	41:GF:195:ASN:O	2.37	0.58
42:GI:167:LEU:HD13	42:GI:200:CYS:HB3	1.86	0.58
41:GL:30:ILE:HD11	41:GL:47:ILE:HD11	1.85	0.58
41:GL:169:VAL:HA	41:GL:202:ILE:HB	1.85	0.58
42:HC:21:TRP:HA	42:HC:24:TYR:HB2	1.85	0.58
41:HJ:51:TYR:HE2	41:HJ:61:PRO:HG3	1.69	0.58
41:IF:217:LEU:HG	41:IF:220:PRO:HD3	1.86	0.58
42:IG:178:SER:OG	42:IG:183:GLU:OE2	2.21	0.58
41:IJ:226:ASN:OD1	43:IJ:501:GDP:N1	2.35	0.58
42:IK:98:ASP:O	42:IK:105:ARG:NH2	2.34	0.58
42:JE:175:PRO:HG2	42:JE:304:LYS:HD2	1.85	0.58
42:JG:396:ASP:OD2	42:JG:422:ARG:NH2	2.37	0.58
42:JI:320:ARG:HD3	42:JI:360:PRO:HG3	1.86	0.58
41:KJ:314:ALA:HB3	41:KJ:368:ILE:HB	1.84	0.58
42:LG:180:ALA:HB3	42:LG:183:GLU:HB2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:MC:109:THR:O	42:MC:111:GLY:N	2.37	0.58
42:MG:69:ASP:HB3	42:MG:75:ILE:HD11	1.86	0.58
41:OB:343:GLU:O	41:OB:345:ILE:N	2.33	0.58
42:OC:91:GLN:HB2	42:OC:121:ARG:HH12	1.69	0.58
42:PC:212:ILE:HA	42:PC:215:ARG:HD2	1.86	0.58
41:PH:327:ASP:O	41:PH:329:GLN:N	2.37	0.58
42:QC:244:PHE:HB2	42:QC:356:ASN:HD21	1.68	0.58
42:QE:12:ALA:HB3	42:QE:140:SER:HB3	1.86	0.58
42:RE:346:TRP:NE1	41:RF:391:ARG:HB3	2.19	0.58
42:RG:316:CYS:HB3	42:RG:378:LEU:HB3	1.85	0.58
42:TE:70:LEU:HD12	42:TE:99:ALA:HB2	1.86	0.58
42:UG:286:LEU:HB3	42:UG:291:ILE:HD11	1.86	0.58
41:UL:24:ILE:HA	41:UL:27:GLU:HG2	1.85	0.58
41:UL:58:LYS:HZ2	41:VL:280:GLN:HB3	1.67	0.58
41:VH:274:THR:HG21	41:VH:282:ARG:HG3	1.84	0.58
41:VL:267:MET:HB2	41:VL:374:ILE:HD11	1.85	0.58
42:WC:247:ALA:O	41:WD:11:GLN:NE2	2.35	0.58
42:WE:261:PRO:O	42:WE:262:TYR:C	2.41	0.58
41:WF:330:MET:HB3	41:WF:349:VAL:HG11	1.86	0.58
42:WG:224:TYR:HD2	42:WG:227:LEU:HD12	1.69	0.58
41:WJ:246:LEU:HD13	45:WK:501:GTP:H8	1.69	0.58
42:WM:251:ASP:HB3	42:WM:254:GLU:HG2	1.86	0.58
8:2A:21:PRO:HD2	27:4R:209:ASP:HB2	1.84	0.57
13:2T:401:VAL:CG1	42:GK:370:LYS:HG2	2.33	0.57
33:5T:136:GLU:HB3	33:5T:261:THR:HG22	1.86	0.57
34:6F:243:GLN:NE2	34:6F:318:SER:HB3	2.19	0.57
35:6U:244:SER:HB2	35:6U:247:PHE:HB2	1.86	0.57
36:6Y:91:LEU:O	36:6Y:95:GLY:N	2.36	0.57
41:AB:213:ARG:HH12	41:AB:297:LYS:HG2	1.68	0.57
41:AH:258:VAL:HG22	41:AH:266:PHE:HZ	1.69	0.57
42:AI:349:THR:HG21	41:AJ:178:THR:O	2.04	0.57
41:BJ:242:PHE:HB3	41:BJ:356:ILE:HD13	1.85	0.57
41:CD:58:LYS:O	41:CD:59:TYR:C	2.43	0.57
41:CD:65:LEU:HD12	41:CD:89:ASN:HB3	1.86	0.57
42:CE:72:PRO:HA	42:CE:75:ILE:HG22	1.85	0.57
41:DD:292:GLN:HG2	41:DD:298:ASN:HD22	1.67	0.57
41:DJ:7:LEU:HG	41:DJ:64:VAL:HB	1.85	0.57
41:DJ:34:GLY:C	41:EJ:281:TYR:HE2	2.07	0.57
41:FF:105:HIS:CE1	41:FF:150:LEU:HB2	2.39	0.57
41:FJ:171:PRO:O	41:FJ:380:ARG:NH2	2.37	0.57
41:FJ:178:THR:HG22	41:FJ:180:VAL:H	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:HB:161:ASP:OD2	41:HB:162:ARG:NH1	2.36	0.57
41:HB:393:ALA:HA	42:HM:262:TYR:HE1	1.68	0.57
42:HK:88:HIS:NE2	42:IK:283:HIS:O	2.31	0.57
42:HM:276:ILE:HD13	42:HM:281:ALA:HB2	1.86	0.57
41:IL:67:ASP:OD1	41:IL:68:LEU:N	2.36	0.57
41:IN:304:ASP:O	41:IN:305:PRO:C	2.42	0.57
42:JK:168:GLU:HB2	42:JK:201:ALA:HA	1.84	0.57
42:JK:273:ALA:CB	42:JK:375:VAL:HG12	2.32	0.57
41:LL:290:THR:HG21	41:LL:329:GLN:HB3	1.86	0.57
41:OJ:68:LEU:HB2	41:OJ:97:ALA:HB2	1.86	0.57
42:PC:8:HIS:CD2	42:PC:17:GLY:HA3	2.39	0.57
41:PH:111:GLU:HG2	41:PH:112:LEU:HG	1.86	0.57
41:PH:312:THR:HG23	41:PH:370:ASN:HB2	1.85	0.57
41:PJ:292:GLN:O	41:PJ:293:MET:C	2.43	0.57
41:PJ:327:ASP:O	41:PJ:328:GLU:C	2.42	0.57
42:QE:372:GLN:HG2	42:QE:373:ARG:HG3	1.84	0.57
42:QI:286:LEU:HD13	42:QI:371:VAL:HB	1.86	0.57
42:RK:224:TYR:HD1	42:RK:227:LEU:HD12	1.69	0.57
41:RL:167:PHE:HD2	41:RL:233:MET:HG3	1.69	0.57
41:SH:32:PRO:HA	41:SH:84:ILE:HD11	1.86	0.57
41:SL:272:PRO:HG3	41:SL:364:SER:HA	1.86	0.57
41:TD:49:VAL:HG11	41:TD:241:ARG:HG2	1.86	0.57
41:TD:347:ASN:ND2	42:TE:180:ALA:O	2.37	0.57
41:TH:147:MET:O	41:TH:151:LEU:N	2.30	0.57
41:UF:252:LYS:O	41:UF:256:ASN:ND2	2.37	0.57
41:UH:178:THR:HB	41:UH:181:GLU:HB2	1.87	0.57
41:UL:2:ARG:HH21	41:UL:240:LEU:HA	1.68	0.57
42:VG:269:LEU:HD21	42:VG:384:ILE:HD12	1.86	0.57
42:WC:211:ASP:OD2	42:WC:304:LYS:NZ	2.37	0.57
41:WF:390:ARG:HG3	41:WF:391:ARG:HG2	1.85	0.57
41:WH:302:ALA:O	41:WH:303:CYS:C	2.43	0.57
41:WL:270:PHE:O	41:WL:298:ASN:ND2	2.34	0.57
19:3J:98:LYS:HE3	42:AC:41:THR:HG21	1.85	0.57
27:4Q:230:GLU:OE2	27:4Q:234:ARG:NH2	2.37	0.57
30:5B:371:GLN:OE1	41:LN:227:HIS:NE2	2.37	0.57
32:5M:286:MET:SD	32:5M:369:GLN:NE2	2.77	0.57
33:5W:183:LEU:HD22	33:5W:187:ARG:HH21	1.69	0.57
35:6Q:257:TRP:CE3	35:6Q:257:TRP:HA	2.38	0.57
37:7F:45:LYS:O	42:NE:96:LYS:NZ	2.37	0.57
38:7H:60:VAL:HG12	42:HK:96:LYS:HE2	1.86	0.57
38:7H:142:TYR:CD2	41:IF:291:GLN:HB2	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:AC:140:SER:OG	45:AC:501:GTP:O2A	2.22	0.57
41:AH:305:PRO:C	41:AH:307:HIS:H	2.07	0.57
42:CE:129:CYS:SG	42:CE:130:THR:N	2.77	0.57
42:CG:344:VAL:HG22	42:CG:345:ASP:H	1.69	0.57
41:CH:130:LEU:HD21	41:CH:133:PHE:CE1	2.39	0.57
41:DB:347:ASN:ND2	42:DC:178:SER:OG	2.30	0.57
41:DD:334:GLN:HE21	41:DD:349:VAL:HG13	1.68	0.57
41:ED:117:LEU:HA	41:ED:120:VAL:HG12	1.86	0.57
41:ED:242:PHE:HB3	41:ED:356:ILE:HG13	1.85	0.57
42:FC:399:TYR:HE1	42:FC:419:SER:HA	1.68	0.57
41:FF:309:ARG:O	41:FF:372:THR:N	2.36	0.57
41:FH:282:ARG:NE	41:FH:288:GLU:OE1	2.36	0.57
41:FJ:324:LYS:HG3	42:FK:210:TYR:CE2	2.39	0.57
42:FK:183:GLU:HB2	42:FK:184:PRO:HD3	1.86	0.57
42:FM:115:ILE:HA	42:FM:118:VAL:HG12	1.85	0.57
41:HB:396:HIS:NE2	42:HM:262:TYR:HA	2.19	0.57
42:HC:74:VAL:HG13	42:HC:75:ILE:H	1.68	0.57
42:HC:164:LYS:O	42:HC:165:SER:C	2.43	0.57
42:HG:102:ASN:HD21	42:HG:105:ARG:HD3	1.67	0.57
41:ID:26:ASP:O	41:ID:359:ARG:NE	2.34	0.57
42:IG:238:ILE:HG23	42:IG:239:THR:HG23	1.86	0.57
42:JI:50:ASN:O	42:JI:64:ARG:NH1	2.37	0.57
41:JL:330:MET:HE2	41:JL:349:VAL:HB	1.87	0.57
41:KF:46:ARG:NH2	42:KG:76:ASP:OD2	2.37	0.57
41:KF:414:ASN:HA	41:KF:417:ASP:HB2	1.86	0.57
42:ME:3:GLU:HA	42:ME:51:THR:HA	1.87	0.57
41:ML:50:TYR:OH	41:ML:237:THR:HG21	2.05	0.57
42:NC:219:ILE:O	42:NC:222:PRO:HD3	2.03	0.57
42:PC:3:GLU:HB2	42:PC:129:CYS:SG	2.43	0.57
41:PD:217:LEU:HD21	41:PD:220:PRO:HA	1.85	0.57
42:PG:402:ARG:O	42:PG:402:ARG:NH1	2.37	0.57
41:PH:12:CYS:HB3	41:PH:138:SER:HB2	1.86	0.57
41:PH:239:CYS:C	41:PH:241:ARG:H	2.07	0.57
41:PJ:41:ASP:O	41:PJ:43:GLN:N	2.37	0.57
41:PJ:393:ALA:O	41:PJ:394:PHE:C	2.41	0.57
41:QD:354:CYS:SG	41:QD:355:ASP:N	2.77	0.57
42:QE:115:ILE:HG12	42:QE:156:ARG:HE	1.69	0.57
41:QH:213:ARG:NE	41:QH:297:LYS:HB3	2.19	0.57
41:RD:242:PHE:HB3	41:RD:356:ILE:HB	1.85	0.57
41:RF:112:LEU:O	41:RF:113:VAL:C	2.42	0.57
41:RJ:271:ALA:HB3	41:RJ:365:ALA:HB3	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:SC:258:ASN:HD22	41:SD:180:VAL:HG23	1.69	0.57
41:SH:7:LEU:HD11	41:SH:120:VAL:HG22	1.85	0.57
42:SK:147:SER:OG	42:SK:190:THR:HG21	2.04	0.57
41:TL:99:ASN:HA	41:TL:142:GLY:H	1.69	0.57
42:UI:223:THR:O	42:UI:225:THR:N	2.37	0.57
41:UJ:238:THR:HG21	41:UJ:318:ARG:HD2	1.86	0.57
41:VF:311:LEU:HD23	41:VF:342:VAL:HG11	1.86	0.57
42:VI:319:TYR:HB3	42:VI:323:VAL:HG21	1.85	0.57
41:WL:248:ALA:HA	41:WL:252:LYS:HD3	1.84	0.57
2:1E:159:LEU:HB3	26:4L:212:ARG:NH1	2.19	0.57
2:1F:89:ARG:HG2	26:4M:126:VAL:HG11	1.85	0.57
19:3J:94:LYS:NZ	42:AC:26:LEU:O	2.37	0.57
19:3J:245:PHE:HB2	19:3J:264:ILE:HB	1.85	0.57
20:3Q:424:ALA:HB3	20:3Q:438:PHE:HB2	1.86	0.57
22:3X:90:PRO:HG3	22:3X:108:SER:HB2	1.85	0.57
25:4J:147:ASN:HA	25:4J:150:ILE:HG22	1.86	0.57
34:6C:202:ARG:HD3	34:6C:347:PHE:HE1	1.68	0.57
38:7H:209:PRO:HG3	42:IC:215:ARG:HE	1.68	0.57
41:AB:173:PRO:HB3	41:AB:380:ARG:HD2	1.85	0.57
42:AE:223:THR:HG23	42:AE:225:THR:H	1.69	0.57
41:AF:325:GLU:OE1	42:AG:221:ARG:NH1	2.37	0.57
42:AI:167:LEU:HD12	42:AI:200:CYS:HB2	1.87	0.57
41:BF:286:VAL:HG11	41:BF:326:VAL:HA	1.86	0.57
41:BJ:116:VAL:HG21	41:BJ:151:LEU:HD11	1.85	0.57
42:CG:204:VAL:HG21	42:CG:231:ILE:HD12	1.86	0.57
42:CG:319:TYR:HB3	42:CG:323:VAL:HG21	1.85	0.57
42:DE:92:LEU:HD12	42:DE:92:LEU:H	1.68	0.57
42:DG:262:TYR:HB2	42:DG:265:ILE:HG12	1.86	0.57
42:EG:14:VAL:HG12	42:EG:18:ASN:HD21	1.69	0.57
42:EG:312:TYR:HA	42:EG:381:THR:HG23	1.85	0.57
41:FF:238:THR:OG1	41:FF:318:ARG:NH1	2.36	0.57
41:FH:68:LEU:HB2	41:FH:96:GLY:HA2	1.86	0.57
42:FI:5:ILE:HA	42:FI:64:ARG:HB3	1.86	0.57
41:FJ:375:GLN:HB2	41:FJ:419:VAL:HG13	1.85	0.57
41:FL:361:LEU:O	41:FL:362:LYS:C	2.43	0.57
42:GG:320:ARG:HH21	42:GG:360:PRO:HA	1.67	0.57
42:HE:218:ASP:H	42:HE:277:SER:HB3	1.68	0.57
42:HI:324:VAL:HG13	42:HI:327:ASP:HB2	1.86	0.57
41:HJ:385:PHE:HZ	41:HJ:408:PHE:HB3	1.69	0.57
41:ID:198:GLU:HA	41:ID:264:HIS:HB2	1.86	0.57
41:IL:234:SER:HB3	41:IL:241:ARG:HH22	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:JD:14:ASN:HD22	41:JD:72:THR:HG23	1.69	0.57
42:JI:218:ASP:OD2	42:JI:280:LYS:NZ	2.34	0.57
42:JK:60:LYS:O	42:JK:61:HIS:C	2.43	0.57
42:JK:151:SER:O	42:JK:155:GLU:HG2	2.05	0.57
42:LG:326:LYS:NZ	41:LH:212:PHE:HB2	2.19	0.57
42:MI:317:LEU:HD23	42:MI:377:MET:HG3	1.86	0.57
42:NC:63:PRO:HD3	42:NC:86:LEU:HG	1.86	0.57
42:NE:16:ILE:HD11	42:NE:138:PHE:HB3	1.86	0.57
42:NE:31:GLN:HG2	42:NE:32:PRO:HD3	1.86	0.57
42:NE:271:THR:HB	42:NE:377:MET:HB3	1.85	0.57
41:NH:163:ILE:HG13	41:NH:197:ASP:HB3	1.86	0.57
41:OB:323:MET:N	41:OB:323:MET:SD	2.78	0.57
42:OE:115:ILE:HD12	42:OE:152:LEU:HD22	1.85	0.57
41:OH:68:LEU:HG	41:OH:108:GLU:HG3	1.86	0.57
42:PC:205:ASP:HB3	42:PC:303:VAL:HA	1.86	0.57
41:PD:103:LYS:HG2	41:PD:401:GLU:HG3	1.86	0.57
42:PG:269:LEU:N	42:PG:379:SER:O	2.38	0.57
42:PI:19:ALA:HA	42:PI:22:GLU:HG3	1.86	0.57
42:PK:25:CYS:HA	42:PK:30:ILE:HG23	1.84	0.57
41:PL:342:VAL:HB	41:PL:344:TRP:HD1	1.69	0.57
42:QC:286:LEU:HD13	42:QC:371:VAL:HG23	1.87	0.57
42:QE:138:PHE:CE1	42:QE:169:PHE:HB2	2.39	0.57
42:QG:291:ILE:HG12	42:QG:375:VAL:HG12	1.86	0.57
42:QI:31:GLN:H	42:QI:36:MET:HA	1.69	0.57
41:SH:142:GLY:O	41:SH:144:GLY:N	2.37	0.57
41:SJ:316:VAL:HG12	41:SJ:352:ALA:HB3	1.87	0.57
42:SK:324:VAL:HG12	42:SK:326:LYS:H	1.70	0.57
41:UD:287:PRO:HA	41:UD:329:GLN:HE22	1.67	0.57
42:UE:3:GLU:OE1	42:UE:129:CYS:HB3	2.05	0.57
41:UJ:253:LEU:HD23	41:UJ:350:LYS:HE2	1.85	0.57
42:UK:325:PRO:HB3	41:UL:222:TYR:CZ	2.38	0.57
42:VM:294:ALA:O	42:VM:300:ASN:ND2	2.27	0.57
41:WN:270:PHE:O	41:WN:298:ASN:ND2	2.36	0.57
20:3O:12:TRP:HD1	41:KH:77:ARG:HH12	1.52	0.57
24:4G:218:GLU:OE2	24:4G:221:ARG:NH2	2.38	0.57
33:5T:135:GLU:HA	33:5T:138:HIS:CE1	2.39	0.57
34:6A:118:GLU:HG2	34:6A:121:ARG:HH21	1.68	0.57
34:6B:184:ALA:HA	34:6B:187:GLU:HG2	1.86	0.57
41:BD:267:MET:HB3	41:BD:301:ALA:HB3	1.87	0.57
41:BD:358:PRO:HG3	41:BD:364:SER:HB3	1.86	0.57
42:CC:108:TYR:CE1	42:CC:413:MET:HA	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CC:265:ILE:HD13	42:CC:435:VAL:HG21	1.86	0.57
41:CF:379:LYS:HD3	41:CF:419:VAL:HG21	1.85	0.57
42:CK:239:THR:OG1	42:CK:243:ARG:NH1	2.36	0.57
42:CM:204:VAL:HG23	42:CM:302:MET:HB3	1.85	0.57
42:DE:311:LYS:H	42:DE:382:THR:HG22	1.70	0.57
41:DF:200:TYR:CE1	41:DF:368:ILE:HB	2.40	0.57
41:DJ:109:GLY:O	41:DJ:112:LEU:N	2.35	0.57
41:DJ:132:GLY:HA2	41:DJ:162:ARG:HB3	1.87	0.57
41:DJ:245:GLN:O	41:DJ:247:ASN:N	2.37	0.57
42:EI:271:THR:HG22	42:EI:302:MET:H	1.69	0.57
42:EK:305:CYS:O	42:EK:306:ASP:C	2.42	0.57
41:FF:248:ALA:HA	41:FF:252:LYS:HD2	1.85	0.57
41:FJ:324:LYS:HE3	42:FK:222:PRO:C	2.24	0.57
41:FL:80:PRO:O	41:FL:82:GLY:N	2.38	0.57
41:FL:97:ALA:O	41:FL:99:ASN:N	2.37	0.57
41:FL:156:ARG:CZ	41:FL:195:ASN:HB2	2.35	0.57
42:GK:208:ALA:HB2	42:GK:304:LYS:HG2	1.87	0.57
42:GM:280:LYS:O	42:GM:281:ALA:C	2.43	0.57
42:HG:109:THR:OG1	42:HG:110:ILE:N	2.37	0.57
41:IH:257:MET:HE1	41:IH:368:ILE:HG22	1.85	0.57
42:JK:58:ALA:HB3	42:MK:282:TYR:CD1	2.39	0.57
41:JL:284:LEU:HB3	41:JL:363:MET:HG2	1.87	0.57
42:KE:265:ILE:HG12	42:KE:432:TYR:CE1	2.39	0.57
41:KL:262:ARG:NH2	41:KL:414:ASN:OD1	2.35	0.57
41:LF:42:LEU:HD13	41:LF:356:ILE:HD11	1.86	0.57
41:LH:311:LEU:O	41:LH:348:ASN:ND2	2.37	0.57
42:MC:286:LEU:O	42:MC:373:ARG:NH1	2.37	0.57
41:MF:320:ARG:HH12	41:MF:357:PRO:HD3	1.68	0.57
41:MJ:14:ASN:HD21	41:MJ:67:ASP:HB2	1.70	0.57
42:NA:274:PRO:HG3	42:NA:374:ALA:HA	1.87	0.57
42:NK:209:ILE:HG12	42:NK:302:MET:HG2	1.86	0.57
41:NL:12:CYS:HG	41:NL:222:TYR:HH	1.48	0.57
41:NL:86:ARG:HG3	41:OL:281:TYR:HB2	1.86	0.57
41:NL:99:ASN:O	41:NL:184:ASN:ND2	2.30	0.57
42:OG:172:TYR:HE2	42:OG:387:ALA:HB1	1.69	0.57
42:OK:255:PHE:HE1	42:OK:318:LEU:HD11	1.69	0.57
41:PB:73:MET:HG3	41:PB:92:PHE:HB3	1.85	0.57
42:PC:401:LYS:O	42:PC:402:ARG:C	2.42	0.57
41:PF:193:VAL:HA	41:PF:264:HIS:HE1	1.70	0.57
42:PG:339:ARG:O	42:PG:340:THR:C	2.42	0.57
42:QC:313:MET:HB3	42:QC:380:ASN:HB2	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:QF:66:VAL:HG12	41:QF:91:VAL:HB	1.86	0.57
41:QL:269:GLY:HA3	41:QL:299:MET:HA	1.83	0.57
42:SE:311:LYS:HA	42:SE:342:GLN:HB2	1.86	0.57
41:SF:316:VAL:HA	41:SF:352:ALA:HB3	1.86	0.57
41:SH:392:LYS:HD3	41:SH:395:LEU:HD13	1.87	0.57
42:SK:28:HIS:NE2	42:SK:243:ARG:HD2	2.18	0.57
41:TD:6:HIS:CD2	41:TD:8:GLN:HE21	2.23	0.57
41:TF:314:ALA:N	41:TF:368:ILE:O	2.36	0.57
41:TH:21:TRP:HA	41:TH:24:ILE:HG22	1.86	0.57
41:TH:293:MET:HG3	41:TH:367:PHE:HB2	1.87	0.57
41:UD:267:MET:HG3	41:UD:301:ALA:HB3	1.86	0.57
41:UL:69:GLU:HB3	41:UL:96:GLY:HA2	1.85	0.57
41:UL:318:ARG:HA	41:UL:354:CYS:HB3	1.85	0.57
42:VM:247:ALA:HB3	42:VM:355:ILE:HB	1.85	0.57
42:WE:273:ALA:HB2	42:WE:375:VAL:HG12	1.86	0.57
41:WF:358:PRO:HB2	41:WF:361:LEU:HD12	1.87	0.57
5:IO:18:TYR:HE1	41:LH:94:GLN:HB2	1.69	0.57
19:3L:352:ARG:NH1	19:3L:363:ASP:O	2.37	0.57
24:4G:306:ARG:NH2	42:HI:364:PRO:O	2.28	0.57
29:4Y:113:PHE:HE2	42:HI:215:ARG:CB	2.14	0.57
31:5H:100:LYS:NZ	31:5H:151:GLU:OE1	2.38	0.57
33:5T:318:LEU:HG	33:5T:338:LEU:HB3	1.85	0.57
33:5W:130:LYS:HZ3	33:5X:11:ARG:HG3	1.69	0.57
34:6A:124:THR:OG1	34:6B:437:ARG:HD2	2.04	0.57
37:7C:127:ARG:HD3	41:TL:296:ALA:HB1	1.86	0.57
41:AF:237:THR:HG22	41:AF:250:LEU:HD21	1.86	0.57
42:AI:191:THR:HA	42:AI:194:THR:HG22	1.85	0.57
42:AK:315:CYS:O	42:AK:351:PHE:HA	2.04	0.57
42:BE:118:VAL:HG21	42:BE:149:PHE:HZ	1.70	0.57
41:BH:404:ASP:OD1	41:BH:405:GLU:N	2.37	0.57
41:CL:330:MET:HA	41:CL:333:VAL:HG12	1.85	0.57
42:CM:386:GLU:OE2	42:CM:390:ARG:NH1	2.36	0.57
41:DB:375:GLN:HE22	41:DB:423:GLN:HG3	1.69	0.57
41:DF:395:LEU:O	41:DF:399:THR:N	2.30	0.57
42:DG:317:LEU:N	42:DG:352:LYS:O	2.34	0.57
41:DJ:81:PHE:O	41:DJ:83:GLN:N	2.37	0.57
42:DK:88:HIS:HD2	42:EK:284:GLU:HG3	1.69	0.57
42:DM:47:ASP:OD1	42:DM:48:SER:N	2.36	0.57
42:EI:154:MET:HB3	42:EI:197:HIS:HB3	1.87	0.57
41:EJ:73:MET:SD	41:EJ:92:PHE:HB3	2.45	0.57
42:FC:311:LYS:HD2	42:FC:342:GLN:HB3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:FE:71:GLU:HB2	42:FE:98:ASP:HB3	1.86	0.57
42:FK:339:ARG:HH21	42:FK:340:THR:H	1.51	0.57
42:FM:392:ASP:OD2	42:FM:422:ARG:NH2	2.26	0.57
41:GD:102:ALA:HA	41:GD:106:TYR:HD1	1.69	0.57
41:HB:178:THR:HB	41:HB:181:GLU:OE1	2.05	0.57
41:HD:98:GLY:O	41:HD:99:ASN:C	2.42	0.57
41:HL:317:PHE:HB2	41:HL:353:VAL:HG22	1.86	0.57
42:HM:71:GLU:HB2	42:HM:98:ASP:HA	1.86	0.57
42:IE:105:ARG:HH21	42:IE:110:ILE:HG21	1.70	0.57
42:IM:8:HIS:HB2	42:IM:67:PHE:HA	1.87	0.57
41:JD:2:ARG:HB2	41:JD:131:GLN:HB2	1.86	0.57
42:JI:253:THR:HA	42:JI:256:GLN:HB3	1.87	0.57
42:MM:139:HIS:ND1	42:MM:146:GLY:O	2.37	0.57
41:NB:68:LEU:HD12	41:NB:143:THR:HB	1.85	0.57
41:NF:86:ARG:HG2	41:OF:281:TYR:HE2	1.69	0.57
42:OC:250:VAL:HG21	42:OC:318:LEU:HD22	1.86	0.57
41:OF:237:THR:HG23	41:OF:241:ARG:HH21	1.69	0.57
42:OK:259:LEU:HD13	42:OK:316:CYS:HB2	1.87	0.57
42:PI:210:TYR:CE1	42:PI:227:LEU:HD11	2.40	0.57
42:PK:261:PRO:HA	41:PL:394:PHE:CE1	2.39	0.57
41:QB:135:LEU:HD11	41:QB:152:ILE:HD13	1.85	0.57
42:QE:301:GLN:NE2	42:QE:305:CYS:O	2.36	0.57
41:QL:226:ASN:ND2	43:QL:501:GDP:HN1	1.85	0.57
42:RI:119:LEU:HG	42:RI:156:ARG:HG2	1.85	0.57
42:RI:157:LEU:HD22	42:RI:166:LYS:HE2	1.86	0.57
41:RL:86:ARG:HB3	41:RL:89:ASN:HB2	1.87	0.57
42:SE:215:ARG:HH22	42:SE:300:ASN:HA	1.69	0.57
42:UC:312:TYR:HB2	42:UC:343:PHE:HD1	1.69	0.57
42:UM:340:THR:HG23	42:UM:341:ILE:HD12	1.86	0.57
41:VH:317:PHE:HB2	41:VH:353:VAL:HG12	1.85	0.57
41:VL:2:ARG:HE	41:VL:240:LEU:HG	1.69	0.57
41:WL:139:LEU:HA	41:WL:145:SER:HB3	1.85	0.57
9:2D:512:LEU:HB3	41:IL:279:GLN:HG3	1.85	0.57
9:2D:567:TYR:CZ	41:IN:276:ARG:HD2	2.39	0.57
20:3P:425:LYS:NZ	20:3P:435:GLU:OE1	2.37	0.57
31:5E:15:LYS:HD2	31:5E:18:ILE:HB	1.86	0.57
32:5L:272:LYS:HD2	32:5L:275:ARG:HH21	1.69	0.57
33:5W:248:ALA:HB1	34:6B:323:ASP:OD1	2.05	0.57
35:6Q:297:CYS:O	35:6Q:301:ASN:ND2	2.37	0.57
35:6U:335:ASN:HB2	35:6V:78:ARG:HG3	1.86	0.57
42:AK:100:ALA:O	42:AK:101:ASN:C	2.42	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BC:88:HIS:HA	42:CC:283:HIS:HD2	1.70	0.57
42:BI:66:VAL:HG23	42:BI:93:ILE:HD11	1.86	0.57
42:CC:211:ASP:HB2	42:CC:215:ARG:HH21	1.69	0.57
41:CJ:389:PHE:O	41:CJ:392:LYS:N	2.38	0.57
41:DB:354:CYS:SG	41:DB:355:ASP:N	2.76	0.57
42:DC:278:ALA:HA	42:DC:369:ALA:HB2	1.85	0.57
41:DF:8:GLN:HB2	41:DF:65:LEU:HA	1.86	0.57
41:DH:42:LEU:HD22	41:DH:356:ILE:HD11	1.87	0.57
42:DI:261:PRO:HG2	42:DI:265:ILE:HB	1.87	0.57
41:DJ:302:ALA:O	41:DJ:304:ASP:N	2.38	0.57
42:EE:51:THR:HG21	42:EE:243:ARG:HB3	1.86	0.57
41:EF:314:ALA:HB3	41:EF:368:ILE:HG13	1.85	0.57
42:EG:105:ARG:HA	42:EG:109:THR:HG23	1.87	0.57
42:EI:264:ARG:NH2	42:EI:424:ASP:O	2.38	0.57
41:EJ:205:GLU:HG3	41:EJ:206:ALA:H	1.69	0.57
42:EK:99:ALA:O	42:EK:100:ALA:C	2.42	0.57
42:EK:212:ILE:HD11	42:EK:300:ASN:HA	1.87	0.57
42:EM:265:ILE:HD12	42:EM:267:PHE:HD2	1.70	0.57
42:EM:273:ALA:HB1	42:EM:294:ALA:HB3	1.87	0.57
42:EM:369:ALA:O	42:EM:370:LYS:C	2.43	0.57
41:FD:381:ILE:HG23	41:FD:415:MET:HE1	1.85	0.57
42:FE:27:GLU:OE2	42:FE:243:ARG:NH1	2.38	0.57
42:FI:143:GLY:HA2	42:FI:181:VAL:HG11	1.87	0.57
42:FK:32:PRO:O	42:FK:33:ASP:C	2.43	0.57
42:FM:335:ILE:HG23	42:FM:341:ILE:HD13	1.86	0.57
41:GD:272:PRO:HG2	41:GD:361:LEU:HD13	1.86	0.57
42:GG:209:ILE:HB	42:GG:227:LEU:HD13	1.85	0.57
42:GM:16:ILE:HG23	42:GM:231:ILE:HG23	1.86	0.57
42:HE:286:LEU:O	42:HE:373:ARG:NH1	2.37	0.57
42:HG:3:GLU:HG3	42:HG:129:CYS:HB2	1.86	0.57
41:HH:319:GLY:HA2	41:HH:357:PRO:HA	1.86	0.57
42:IE:401:LYS:O	42:IE:402:ARG:C	2.41	0.57
42:JC:242:LEU:HD21	42:JC:251:ASP:HA	1.86	0.57
42:JE:205:ASP:HB2	42:JE:208:ALA:HB3	1.86	0.57
42:JE:241:SER:OG	42:JE:249:ASN:OD1	2.21	0.57
41:KL:10:GLY:O	41:KL:14:ASN:ND2	2.37	0.57
42:LI:75:ILE:HG23	42:LI:92:LEU:HD23	1.87	0.57
42:NC:73:THR:O	42:NC:76:ASP:N	2.38	0.57
42:NE:36:MET:HG3	42:NE:61:HIS:HE2	1.69	0.57
42:NK:371:VAL:HG23	42:NK:373:ARG:H	1.69	0.57
42:OA:258:ASN:HD21	42:OA:352:LYS:HD2	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:OC:212:ILE:HD11	42:OC:300:ASN:HA	1.87	0.57
41:OJ:145:SER:HB2	41:OJ:188:SER:HB2	1.85	0.57
41:PH:26:ASP:O	41:PH:27:GLU:C	2.39	0.57
41:PH:108:GLU:O	41:PH:109:GLY:C	2.43	0.57
41:PJ:192:LEU:C	41:PJ:194:GLU:H	2.08	0.57
41:PL:170:VAL:HG21	41:PL:377:LEU:HD21	1.86	0.57
41:QH:25:SER:HB2	41:QH:30:ILE:HB	1.87	0.57
41:RF:303:CYS:O	41:RF:304:ASP:C	2.42	0.57
42:SE:261:PRO:HB3	42:SE:346:TRP:CH2	2.38	0.57
42:SG:323:VAL:HG13	42:SG:355:ILE:HG23	1.86	0.57
41:SH:181:GLU:HG3	41:SH:182:PRO:HD3	1.86	0.57
42:SI:180:ALA:HB3	42:SI:183:GLU:HB2	1.87	0.57
42:SM:318:LEU:HB3	42:SM:376:CYS:HB3	1.85	0.57
41:TD:77:ARG:O	41:TD:83:GLN:NE2	2.38	0.57
42:TM:392:ASP:HB3	42:TM:422:ARG:HH12	1.70	0.57
42:UC:91:GLN:O	42:UC:92:LEU:C	2.43	0.57
41:UD:259:PRO:HG2	41:UD:263:LEU:HD12	1.86	0.57
42:VI:320:ARG:HD3	42:VI:360:PRO:HG3	1.87	0.57
12:2Q:498:ARG:NH1	42:VM:85:GLN:OE1	2.31	0.57
22:4B:102:ILE:HD12	22:4B:110:VAL:HG13	1.86	0.57
23:4D:50:ARG:HD3	23:4D:57:ASP:HB3	1.87	0.57
24:4G:308:GLU:OE2	24:4G:312:ARG:NH2	2.38	0.57
26:4K:187:LEU:HD11	42:HC:340:THR:HA	1.86	0.57
27:4Q:197:LEU:HD22	27:4Q:225:ILE:HG12	1.87	0.57
31:5E:60:ASN:HA	31:5E:63:ASP:HB2	1.86	0.57
33:5V:272:MET:HG2	33:5V:384:MET:HG2	1.87	0.57
34:6F:199:LEU:HD11	34:6F:219:LEU:HB3	1.85	0.57
39:7K:92:ARG:HH12	39:7K:96:VAL:HG12	1.70	0.57
41:AD:7:LEU:HB3	41:AD:135:LEU:HD13	1.86	0.57
42:AI:204:VAL:HG13	42:AI:302:MET:HB3	1.85	0.57
42:BG:326:LYS:HG3	42:BG:327:ASP:N	2.20	0.57
42:CC:335:ILE:HG23	42:CC:341:ILE:HD12	1.87	0.57
42:CI:396:ASP:OD2	42:CI:422:ARG:NH1	2.37	0.57
41:CL:332:ASN:HB3	41:CL:336:LYS:NZ	2.20	0.57
41:DF:46:ARG:NH2	42:DG:76:ASP:OD2	2.38	0.57
41:DH:240:LEU:HD21	41:DH:249:ASP:HA	1.87	0.57
41:DJ:256:ASN:HD22	41:DJ:350:LYS:HB3	1.70	0.57
42:DK:260:VAL:HG13	41:DL:397:TRP:HE1	1.69	0.57
42:EE:100:ALA:O	42:EE:102:ASN:N	2.37	0.57
42:EG:311:LYS:H	42:EG:382:THR:HB	1.70	0.57
42:EK:323:VAL:HG22	42:EK:373:ARG:HG2	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:FC:195:LEU:HD11	42:FC:428:LEU:HD13	1.87	0.57
42:FG:144:GLY:HA2	42:FG:148:GLY:H	1.70	0.57
41:FL:154:LYS:O	41:FL:157:GLU:HG3	2.04	0.57
42:FM:76:ASP:OD2	42:FM:79:ARG:NH1	2.37	0.57
42:GC:326:LYS:NZ	41:GD:212:PHE:HB2	2.20	0.57
42:GE:274:PRO:HG3	42:GE:374:ALA:HA	1.87	0.57
41:GH:86:ARG:HG3	41:HH:281:TYR:CE2	2.40	0.57
42:HE:326:LYS:HB2	41:HF:220:PRO:HG2	1.87	0.57
41:HJ:249:ASP:O	41:HJ:250:LEU:C	2.43	0.57
42:JE:439:SER:OG	41:JF:391:ARG:NH2	2.35	0.57
41:JJ:8:GLN:HE21	41:JJ:65:LEU:HD13	1.70	0.57
42:JK:320:ARG:HH11	42:JK:360:PRO:HA	1.70	0.57
41:LJ:207:LEU:HB3	41:LJ:225:LEU:HD22	1.87	0.57
42:LK:180:ALA:HB3	42:LK:183:GLU:HB2	1.86	0.57
42:LK:258:ASN:HD21	41:LL:178:THR:HG23	1.68	0.57
42:MK:311:LYS:H	42:MK:382:THR:HB	1.70	0.57
41:OB:21:TRP:CZ2	41:OB:63:ALA:HB2	2.40	0.57
41:OD:124:ALA:HB1	41:OD:130:LEU:HD11	1.86	0.57
42:PA:279:GLU:HB3	42:PA:280:LYS:HE2	1.86	0.57
42:PE:99:ALA:O	42:PE:100:ALA:C	2.43	0.57
42:PG:32:PRO:HB3	42:PG:83:TYR:CE1	2.38	0.57
42:PK:68:VAL:HB	42:PK:93:ILE:HG13	1.87	0.57
41:PL:290:THR:HG21	41:PL:329:GLN:HB3	1.87	0.57
42:QG:381:THR:HG22	42:QG:383:ALA:H	1.69	0.57
42:QI:359:PRO:HB3	42:QI:372:GLN:HA	1.85	0.57
41:QJ:156:ARG:HD3	41:QJ:195:ASN:HB2	1.86	0.57
41:RF:103:LYS:HG2	41:RF:107:THR:HG21	1.84	0.57
41:RL:5:VAL:HB	41:RL:133:PHE:CD1	2.40	0.57
42:SG:133:GLN:HE21	42:SG:242:LEU:HD22	1.69	0.57
42:SM:215:ARG:HH21	42:SM:299:ALA:HB3	1.69	0.57
42:TG:22:GLU:OE1	42:TG:83:TYR:OH	2.22	0.57
42:TG:115:ILE:HD11	42:TG:152:LEU:HD22	1.85	0.57
42:TM:219:ILE:HD11	42:TM:367:ASP:OD2	2.03	0.57
42:VG:437:MET:O	41:VH:391:ARG:NH2	2.37	0.57
42:WC:103:TYR:HB3	42:WC:408:TYR:HE1	1.69	0.57
41:WF:336:LYS:HG3	41:WF:337:ASN:H	1.70	0.57
42:WG:348:PRO:HG3	41:WH:384:GLN:HA	1.87	0.57
9:2D:532:LYS:NZ	41:HL:53:GLU:OE1	2.33	0.57
16:3C:69:ILE:HG23	42:VG:298:PRO:HD3	1.87	0.57
16:3C:197:LEU:HA	41:UL:125:GLU:OE2	2.03	0.57
19:3L:149:ILE:HG21	19:3L:154:LEU:HD11	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:3Z:38:MET:HA	22:3Z:41:GLN:HG2	1.87	0.57
24:4G:481:GLU:HG2	24:4G:482:PHE:H	1.70	0.57
30:5A:311:ARG:HA	30:5A:314:ILE:HD13	1.87	0.57
33:5S:41:GLU:HG3	33:5T:355:LYS:HE2	1.86	0.57
33:5W:331:ARG:HD2	33:5W:335:GLN:HG2	1.87	0.57
34:6B:131:LYS:HZ1	34:6C:430:THR:HA	1.69	0.57
41:AJ:26:ASP:O	41:AJ:359:ARG:NH1	2.38	0.57
41:AL:155:ILE:HG23	41:AL:164:MET:HE1	1.87	0.57
41:BH:2:ARG:NH2	41:BH:249:ASP:OD1	2.30	0.57
42:BI:256:GLN:HB3	41:BJ:397:TRP:CH2	2.39	0.57
41:BL:172:SER:HB2	41:BL:205:GLU:HG2	1.87	0.57
42:CC:288:VAL:HA	42:CC:291:ILE:HG12	1.86	0.57
42:CI:195:LEU:HG	42:CI:428:LEU:HD11	1.87	0.57
41:DL:370:ASN:OD1	41:DL:371:SER:N	2.38	0.57
42:EG:10:GLY:O	42:EG:12:ALA:N	2.37	0.57
42:EG:205:ASP:HB2	42:EG:303:VAL:HG13	1.87	0.57
42:EK:28:HIS:CE1	42:EK:243:ARG:HE	2.23	0.57
42:EK:175:PRO:O	42:EK:176:GLN:C	2.43	0.57
41:EL:113:VAL:HG21	41:EL:150:LEU:HD22	1.86	0.57
42:EM:110:ILE:O	42:EM:111:GLY:C	2.43	0.57
42:EM:113:GLU:HG3	42:EM:114:LEU:HD23	1.86	0.57
42:FE:127:ASP:OD2	42:GE:293:ASN:ND2	2.38	0.57
41:FF:315:ALA:HB2	41:FF:367:PHE:HD1	1.69	0.57
42:FG:363:VAL:HG13	42:FG:366:GLY:HA3	1.85	0.57
41:GH:25:SER:OG	41:GH:51:TYR:OH	2.21	0.57
41:HB:215:LEU:HD11	41:HB:273:LEU:HB3	1.87	0.57
42:HC:172:TYR:HE1	42:HC:391:LEU:HD22	1.69	0.57
42:HG:261:PRO:HA	41:HH:394:PHE:CE1	2.40	0.57
42:HK:321:GLY:HA2	42:HK:359:PRO:HA	1.85	0.57
41:IJ:64:VAL:HA	41:IJ:89:ASN:HB2	1.86	0.57
42:IK:259:LEU:HD21	42:IK:316:CYS:HB2	1.86	0.57
42:IM:258:ASN:HD21	41:IN:179:VAL:H	1.52	0.57
42:JE:195:LEU:O	42:JE:266:HIS:NE2	2.33	0.57
41:JL:308:GLY:HA2	41:JL:426:GLN:HE22	1.70	0.57
41:ND:215:LEU:HB3	41:ND:276:ARG:HH12	1.70	0.57
41:NH:330:MET:HB3	41:NH:349:VAL:HG21	1.86	0.57
41:OL:273:LEU:O	41:OL:292:GLN:NE2	2.31	0.57
41:PB:84:ILE:HA	41:QB:281:TYR:CZ	2.40	0.57
42:PG:238:ILE:HA	42:PG:318:LEU:HD22	1.87	0.57
42:PI:194:THR:O	42:PI:198:SER:HB2	2.04	0.57
41:PJ:271:ALA:HB3	41:PJ:365:ALA:HB3	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:QB:31:ASP:OD2	41:QB:33:THR:OG1	2.23	0.57
42:QC:101:ASN:ND2	42:QC:142:GLY:O	2.38	0.57
41:QL:323:MET:O	41:QL:324:LYS:C	2.42	0.57
41:RF:255:VAL:HA	42:RG:407:TRP:HZ3	1.68	0.57
41:RH:141:GLY:O	41:RH:184:ASN:ND2	2.38	0.57
42:RI:244:PHE:HB3	42:RI:358:GLN:HG3	1.87	0.57
42:SC:8:HIS:CE1	42:SC:17:GLY:HA2	2.39	0.57
41:SF:245:GLN:HE22	41:SF:320:ARG:HA	1.70	0.57
41:SH:99:ASN:HA	41:SH:142:GLY:H	1.70	0.57
41:TJ:309:ARG:HH22	41:TJ:344:TRP:HZ3	1.53	0.57
41:UD:268:PRO:HG2	41:UD:300:MET:HB2	1.86	0.57
42:UE:101:ASN:HB3	42:UE:182:VAL:HG11	1.87	0.57
41:UF:132:GLY:HA2	41:UF:162:ARG:HG3	1.86	0.57
41:UJ:267:MET:HB3	41:UJ:374:ILE:HD11	1.86	0.57
41:UL:107:THR:HG22	41:UL:108:GLU:H	1.70	0.57
41:VH:54:ALA:HB3	41:VH:58:LYS:HB3	1.87	0.57
42:WE:401:LYS:O	42:WE:402:ARG:C	2.41	0.57
42:WI:104:ALA:HA	42:WI:108:TYR:HD1	1.70	0.57
8:2A:21:PRO:HD2	27:4R:209:ASP:CB	2.34	0.57
19:3K:143:ILE:O	19:3K:145:GLN:NE2	2.38	0.57
19:3K:285:ARG:HE	19:3K:286:ASP:H	1.53	0.57
20:3P:258:ARG:HE	41:DJ:277:GLY:HA3	1.69	0.57
20:3Q:623:ARG:NH1	41:EL:55:THR:OG1	2.38	0.57
22:3X:58:LEU:O	42:BC:84:ARG:NH1	2.38	0.57
27:4S:84:ALA:HB3	27:4S:95:ALA:HB3	1.86	0.57
27:4T:165:ILE:HA	27:4T:168:THR:HG22	1.86	0.57
28:4W:44:PHE:CD1	42:GM:37:PRO:HG3	2.39	0.57
28:4W:97:ASN:HB3	41:HB:306:ARG:HH22	1.69	0.57
29:4Y:101:LEU:HD13	41:HH:340:TYR:CZ	2.40	0.57
31:5I:15:LYS:HA	31:5I:18:ILE:HG12	1.86	0.57
32:5N:311:LYS:HZ3	33:5X:413:ARG:HD2	1.69	0.57
34:6C:209:ASP:O	34:6C:210:LEU:C	2.44	0.57
34:6L:403:ARG:NH2	34:6L:414:ASP:OD2	2.38	0.57
35:6U:137:ARG:NH2	35:6U:283:ASP:OD1	2.37	0.57
35:6U:328:GLU:HG2	35:6V:71:ARG:HG3	1.86	0.57
41:AF:137:HIS:NE2	41:AF:166:THR:OG1	2.38	0.57
42:AI:273:ALA:HB1	42:AI:291:ILE:HG12	1.85	0.57
41:BB:320:ARG:NH2	41:BB:355:ASP:OD1	2.38	0.57
41:BJ:141:GLY:O	41:BJ:145:SER:OG	2.20	0.57
41:BL:139:LEU:HD22	41:BL:188:SER:HB3	1.86	0.57
41:BL:341:PHE:HB3	41:BL:348:ASN:HD21	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:CB:344:TRP:HA	42:CC:397:LEU:HG	1.86	0.57
42:CC:28:HIS:CE1	42:CC:243:ARG:HD2	2.40	0.57
42:CE:319:TYR:HB3	42:CE:323:VAL:HG21	1.87	0.57
41:CL:25:SER:HB2	41:CL:30:ILE:HB	1.86	0.57
42:DI:390:ARG:HA	42:DI:393:HIS:CE1	2.40	0.57
42:EC:91:GLN:HE21	42:EC:125:LEU:HD21	1.68	0.57
41:ED:171:PRO:HG2	41:ED:185:ALA:HB2	1.86	0.57
42:FI:93:ILE:HG12	42:FI:117:LEU:HD22	1.85	0.57
42:GG:325:PRO:HD2	41:GH:221:THR:HG22	1.86	0.57
41:GH:27:GLU:OE1	41:GH:241:ARG:NH2	2.38	0.57
41:HB:122:LYS:NZ	41:IN:291:GLN:HB3	2.19	0.57
42:HI:209:ILE:HG23	42:HI:227:LEU:HD22	1.86	0.57
42:HK:204:VAL:HG22	42:HK:205:ASP:H	1.70	0.57
41:IL:265:PHE:HB3	41:IL:374:ILE:HD13	1.87	0.57
41:IN:268:PRO:HG2	41:IN:300:MET:HB2	1.85	0.57
41:IN:296:ALA:HA	41:IN:299:MET:HG2	1.87	0.57
42:JK:171:ILE:HG12	45:JK:501:GTP:HN22	1.70	0.57
42:LK:286:LEU:O	42:LK:373:ARG:NH1	2.35	0.57
42:MI:2:ARG:HH21	42:MI:243:ARG:HA	1.69	0.57
41:MJ:180:VAL:HG23	41:MJ:184:ASN:HD21	1.70	0.57
42:MM:168:GLU:OE2	42:MM:170:SER:OG	2.23	0.57
42:MM:223:THR:HG23	42:MM:225:THR:H	1.70	0.57
41:NF:33:THR:HA	41:NF:83:GLN:HE22	1.70	0.57
42:NK:184:PRO:HA	42:NK:391:LEU:HD11	1.87	0.57
42:PA:158:SER:HA	42:PA:162:GLY:CA	2.30	0.57
42:PE:288:VAL:HA	42:PE:291:ILE:HG22	1.85	0.57
41:PF:257:MET:HB3	41:PF:266:PHE:HE2	1.68	0.57
41:PH:181:GLU:O	41:PH:182:PRO:C	2.44	0.57
41:PJ:146:GLY:O	41:PJ:147:MET:C	2.43	0.57
41:PL:237:THR:HB	41:PL:241:ARG:HE	1.69	0.57
42:QC:205:ASP:N	42:QC:302:MET:O	2.38	0.57
42:QC:209:ILE:HD11	42:QC:230:LEU:HB2	1.85	0.57
42:QE:248:LEU:O	42:QE:355:ILE:N	2.38	0.57
41:RF:342:VAL:HG22	41:RF:428:ALA:HB2	1.87	0.57
41:RH:271:ALA:HB2	41:RH:293:MET:HG3	1.87	0.57
41:SF:7:LEU:HD13	41:SF:64:VAL:HB	1.86	0.57
41:SF:16:ILE:HG22	41:SF:226:ASN:HB3	1.87	0.57
41:SF:173:PRO:O	41:SF:174:LYS:C	2.44	0.57
41:SJ:325:GLU:OE1	42:SK:221:ARG:NH1	2.38	0.57
42:TC:229:ARG:HD3	42:TC:363:VAL:HG11	1.86	0.57
42:TE:337:THR:O	42:TE:339:ARG:NH2	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:TF:375:GLN:NE2	41:TF:419:VAL:HA	2.19	0.57
41:TH:159:TYR:HB3	41:TH:162:ARG:HD3	1.86	0.57
42:VK:271:THR:HG23	42:VK:377:MET:HB3	1.86	0.57
41:WD:107:THR:HG21	41:WD:401:GLU:HG2	1.85	0.57
41:WJ:161:ASP:OD2	41:WJ:162:ARG:NH1	2.37	0.57
9:2D:481:TYR:CE2	42:IK:283:HIS:HE1	2.23	0.57
19:3L:313:LEU:HD23	41:CL:276:ARG:HE	1.70	0.57
20:3N:13:GLY:H	41:KD:69:GLU:C	2.08	0.57
24:4G:265:GLU:OE1	24:4G:268:ARG:NH2	2.38	0.57
25:4J:179:ALA:HA	25:4J:193:ARG:HH12	1.70	0.57
31:5I:76:GLU:HA	31:5I:79:LYS:HG2	1.87	0.57
32:5O:399:PRO:O	32:5O:400:ARG:C	2.43	0.57
42:BC:139:HIS:NE2	42:BC:168:GLU:OE2	2.38	0.57
41:CF:3:GLU:HB2	41:CF:127:CYS:HB3	1.87	0.57
41:CF:28:HIS:HB3	41:CF:47:ILE:HD11	1.86	0.57
42:CG:100:ALA:O	42:CG:101:ASN:C	2.42	0.57
41:DJ:144:GLY:O	41:DJ:148:GLY:HA3	2.05	0.57
42:DK:159:VAL:O	42:DK:160:ASP:C	2.42	0.57
41:DL:72:THR:O	41:DL:76:VAL:HG12	2.05	0.57
42:EC:405:VAL:HA	42:EC:408:TYR:HB3	1.87	0.57
42:EG:27:GLU:O	42:EG:28:HIS:C	2.42	0.57
42:EK:102:ASN:O	42:EK:103:TYR:C	2.42	0.57
41:EL:194:GLU:OE2	41:EL:262:ARG:NH1	2.37	0.57
41:EL:316:VAL:HA	41:EL:352:ALA:HB3	1.86	0.57
42:FG:358:GLN:NE2	42:FG:359:PRO:O	2.38	0.57
41:FJ:284:LEU:HD13	41:FJ:362:LYS:HD3	1.87	0.57
42:HC:381:THR:C	42:HC:383:ALA:H	2.08	0.57
42:HI:106:GLY:HA3	42:HI:148:GLY:HA3	1.86	0.57
41:HL:282:ARG:NH1	41:HL:288:GLU:OE2	2.38	0.57
42:IE:134:GLY:HA2	42:IE:165:SER:HB2	1.86	0.57
41:IH:325:GLU:HA	41:IH:328:GLU:HG2	1.87	0.57
42:II:223:THR:HG23	42:II:225:THR:H	1.70	0.57
42:JE:137:ILE:HB	42:JE:168:GLU:HG3	1.87	0.57
41:JH:207:LEU:HD22	41:JH:228:LEU:HD13	1.86	0.57
41:LJ:213:ARG:O	41:LJ:216:LYS:NZ	2.38	0.57
41:LJ:256:ASN:HB2	42:LK:181:VAL:HB	1.86	0.57
41:LL:317:PHE:HB2	41:LL:353:VAL:HG12	1.87	0.57
42:LM:292:THR:HG23	42:LM:335:ILE:HD11	1.87	0.57
42:MC:8:HIS:CD2	42:MC:14:VAL:HA	2.40	0.57
42:MG:16:ILE:HA	42:MG:228:ASN:ND2	2.20	0.57
41:MJ:30:ILE:HG23	41:MJ:34:GLY:HA2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:MM:16:ILE:HA	42:MM:228:ASN:HB3	1.86	0.57
42:NA:105:ARG:HA	42:NA:109:THR:CG2	2.35	0.57
41:NF:107:THR:OG1	41:NF:108:GLU:N	2.38	0.57
42:NG:175:PRO:HA	42:NG:390:ARG:HD3	1.87	0.57
41:NL:12:CYS:HB3	41:NL:138:SER:HB3	1.87	0.57
41:OB:171:PRO:HG2	41:OB:381:ILE:HD12	1.86	0.57
42:OK:174:ALA:HB1	42:OK:207:GLU:HG3	1.87	0.57
42:PA:150:THR:HG22	42:PA:154:MET:HE2	1.85	0.57
42:PI:110:ILE:O	42:PI:112:LYS:N	2.34	0.57
41:QD:358:PRO:HG2	41:QD:361:LEU:HD23	1.86	0.57
41:QJ:212:PHE:HE1	41:QJ:218:THR:HA	1.70	0.57
42:RE:317:LEU:HD13	42:RE:377:MET:HG2	1.87	0.57
41:RF:308:GLY:HA3	41:RF:373:ALA:HB2	1.86	0.57
42:SC:88:HIS:CD2	42:SC:91:GLN:HE21	2.23	0.57
42:UM:360:PRO:HG3	42:UM:374:ALA:HB2	1.87	0.57
42:VC:180:ALA:HB3	42:VC:183:GLU:HB2	1.87	0.57
42:VI:105:ARG:HG2	42:VI:411:GLU:HG3	1.86	0.57
41:WD:247:ASN:H	42:WE:11:GLN:HE22	1.53	0.57
42:WK:101:ASN:HD22	42:WK:143:GLY:HA2	1.69	0.57
7:1T:40:ILE:HG13	24:4F:63:GLU:HG2	1.87	0.56
22:4A:28:ARG:HH21	41:BJ:53:GLU:HB3	1.69	0.56
27:4T:89:SER:HB3	41:WN:95:SER:H	1.68	0.56
33:5X:216:GLN:NE2	33:5X:220:ASP:OD2	2.38	0.56
34:6K:291:ASP:HB3	35:6Q:184:ARG:HH12	1.70	0.56
42:AE:98:ASP:O	42:AE:105:ARG:NH1	2.38	0.56
41:BD:385:PHE:HZ	41:BD:408:PHE:HB3	1.70	0.56
42:BG:27:GLU:HG2	42:BG:243:ARG:HH21	1.69	0.56
42:CG:323:VAL:HB	42:CG:355:ILE:HG23	1.87	0.56
41:DB:184:ASN:HA	41:DB:187:LEU:HB2	1.86	0.56
42:DC:195:LEU:HD11	42:DC:428:LEU:HD22	1.87	0.56
41:DD:11:GLN:HA	41:DD:72:THR:HG21	1.87	0.56
41:DD:26:ASP:O	41:DD:359:ARG:NH1	2.38	0.56
42:DE:236:SER:OG	42:DE:320:ARG:NH2	2.38	0.56
41:DJ:57:GLY:CA	41:EJ:282:ARG:H	2.07	0.56
41:DJ:398:TYR:HB3	41:DJ:408:PHE:HZ	1.69	0.56
41:DL:270:PHE:O	41:DL:298:ASN:ND2	2.38	0.56
42:DM:320:ARG:HD3	42:DM:356:ASN:HD21	1.70	0.56
42:EG:434:GLU:HG2	42:EG:435:VAL:N	2.20	0.56
41:EH:136:THR:HG22	41:EH:167:PHE:HB2	1.87	0.56
41:EH:193:VAL:HG21	41:EH:418:LEU:HD21	1.86	0.56
42:EK:185:TYR:HE2	42:EK:398:MET:HB3	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:FC:265:ILE:HG21	42:FC:313:MET:HE1	1.86	0.56
42:FG:2:ARG:NH2	42:FG:243:ARG:O	2.32	0.56
41:FJ:138:SER:HA	41:FJ:169:VAL:H	1.70	0.56
42:FK:11:GLN:N	45:FK:501:GTP:O1B	2.37	0.56
42:FK:174:ALA:O	42:FK:175:PRO:C	2.43	0.56
42:GC:381:THR:HG22	42:GC:383:ALA:H	1.69	0.56
42:GG:3:GLU:HA	42:GG:51:THR:HA	1.86	0.56
41:GJ:271:ALA:HB3	41:GJ:272:PRO:HD3	1.86	0.56
41:GJ:389:PHE:CZ	41:GJ:405:GLU:HG3	2.40	0.56
41:HD:186:THR:HG21	41:HD:385:PHE:HB2	1.87	0.56
41:HF:99:ASN:HA	41:HF:142:GLY:H	1.68	0.56
42:HK:251:ASP:OD1	42:HK:252:LEU:N	2.38	0.56
41:JL:257:MET:HE3	41:JL:314:ALA:HB2	1.85	0.56
42:KG:336:LYS:NZ	41:KH:174:LYS:O	2.36	0.56
41:KH:234:SER:O	41:KH:241:ARG:NH2	2.38	0.56
42:KI:136:LEU:HD22	42:KI:169:PHE:HE2	1.70	0.56
42:KI:285:GLN:HB3	42:LI:56:THR:HA	1.86	0.56
42:KK:119:LEU:HD21	42:KK:156:ARG:HB3	1.86	0.56
41:LH:308:GLY:HA2	41:LH:426:GLN:HE21	1.70	0.56
42:OE:265:ILE:HG13	42:OE:435:VAL:HG11	1.86	0.56
42:OE:273:ALA:HB2	42:OE:295:CYS:HB3	1.87	0.56
41:OH:395:LEU:HA	41:OH:398:TYR:HD2	1.70	0.56
42:OK:109:THR:HG22	42:OK:110:ILE:H	1.70	0.56
42:PC:7:VAL:HB	42:PC:137:ILE:HA	1.87	0.56
41:PH:84:ILE:HA	41:QH:281:TYR:OH	2.05	0.56
42:PK:260:VAL:HG23	41:PL:397:TRP:HE1	1.70	0.56
41:QJ:87:PRO:HG2	41:RJ:278:SER:HB2	1.87	0.56
41:QJ:268:PRO:HG2	41:QJ:300:MET:HB2	1.85	0.56
42:RC:30:ILE:HD12	42:RC:61:HIS:HB2	1.87	0.56
41:RL:101:TRP:HE1	41:RL:188:SER:HB3	1.70	0.56
42:SC:259:LEU:HD13	42:SC:316:CYS:SG	2.44	0.56
42:SI:212:ILE:HD11	42:SI:300:ASN:HA	1.87	0.56
41:SL:58:LYS:HD2	41:TL:281:TYR:HA	1.87	0.56
41:TF:274:THR:HG22	41:TF:275:SER:H	1.70	0.56
42:TI:64:ARG:HG3	42:TI:125:LEU:HD22	1.87	0.56
41:TJ:48:ASN:O	41:TJ:62:ARG:NH1	2.38	0.56
41:UH:87:PRO:HD3	41:VH:281:TYR:CE2	2.40	0.56
42:UM:70:LEU:HD22	42:UM:110:ILE:HG22	1.87	0.56
42:UM:180:ALA:HB3	42:UM:183:GLU:HB2	1.87	0.56
41:VD:310:TYR:CE2	41:VD:313:VAL:HG22	2.39	0.56
42:VG:195:LEU:HD11	42:VG:264:ARG:HE	1.68	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:VI:2:ARG:NE	42:VI:242:LEU:O	2.33	0.56
33:5V:252:ASN:ND2	34:6A:320:LYS:HE3	2.19	0.56
33:5X:120:ARG:NH1	33:5X:387:ASP:OD1	2.38	0.56
34:6G:285:HIS:H	34:6L:446:GLN:NE2	2.02	0.56
42:AE:27:GLU:HA	42:AE:361:THR:HG21	1.86	0.56
41:AL:289:LEU:HD11	41:AL:363:MET:HB2	1.87	0.56
42:CC:51:THR:HG21	42:CC:243:ARG:HG2	1.86	0.56
41:CF:391:ARG:O	41:CF:392:LYS:C	2.43	0.56
42:CG:439:SER:HB3	41:CH:391:ARG:HD2	1.88	0.56
41:DB:333:VAL:HA	41:DB:336:LYS:HE2	1.87	0.56
41:DF:149:THR:O	41:DF:191:GLN:NE2	2.38	0.56
41:DH:239:CYS:HA	41:DH:242:PHE:O	2.04	0.56
42:EE:217:LEU:HD21	42:EE:368:LEU:HD23	1.86	0.56
42:EE:415:GLU:HA	42:EE:418:PHE:CD2	2.39	0.56
42:EK:102:ASN:HD21	42:EK:407:TRP:HB3	1.70	0.56
42:FG:189:LEU:HD11	42:FG:418:PHE:HE1	1.70	0.56
42:GC:123:ARG:NH2	42:GC:160:ASP:OD2	2.38	0.56
42:GC:233:GLN:HG2	42:GC:272:TYR:CE2	2.41	0.56
42:GM:16:ILE:HD11	42:GM:171:ILE:HD11	1.87	0.56
42:HE:194:THR:HA	42:HE:197:HIS:CE1	2.40	0.56
42:HG:404:PHE:CD1	42:HG:407:TRP:HZ3	2.23	0.56
42:JM:88:HIS:HB2	42:MM:283:HIS:NE2	2.21	0.56
41:LD:375:GLN:HB2	41:LD:419:VAL:HG13	1.86	0.56
41:LJ:272:PRO:HG3	41:LJ:364:SER:HA	1.87	0.56
42:MM:81:GLY:O	42:MM:84:ARG:NH1	2.38	0.56
42:MM:325:PRO:O	42:MM:329:ASN:ND2	2.38	0.56
42:NI:75:ILE:HB	42:NI:94:THR:HG23	1.85	0.56
41:OL:66:VAL:HG22	41:OL:91:VAL:HB	1.87	0.56
41:RB:272:PRO:HB3	41:RB:282:ARG:HH22	1.69	0.56
41:RH:337:ASN:HB2	41:RH:341:PHE:HE2	1.69	0.56
41:RJ:183:TYR:HE2	41:RJ:388:MET:HB3	1.69	0.56
41:TD:163:ILE:HD12	41:TD:250:LEU:HD22	1.87	0.56
41:TF:46:ARG:NH2	42:TG:72:PRO:O	2.38	0.56
41:TH:324:LYS:NZ	42:TI:222:PRO:HD2	2.19	0.56
42:TI:347:CYS:HA	41:TJ:388:MET:HE1	1.87	0.56
41:TJ:309:ARG:H	41:TJ:372:THR:HB	1.69	0.56
42:VE:217:LEU:HA	42:VE:277:SER:HB3	1.86	0.56
42:VG:241:SER:OG	42:VG:250:VAL:O	2.23	0.56
42:WC:439:SER:HB3	41:WD:391:ARG:HE	1.70	0.56
42:WI:57:GLY:O	42:WI:58:ALA:C	2.44	0.56
20:3P:326:ILE:HD11	20:3P:342:CYS:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:3T:211:HIS:HE1	41:WF:280:GLN:HG3	1.71	0.56
25:4I:23:ARG:HH12	25:4I:76:LEU:HD12	1.71	0.56
25:4I:335:ARG:NH2	25:4I:347:GLY:O	2.39	0.56
28:4V:132:PRO:HD2	28:4V:135:CYS:HB3	1.86	0.56
31:5J:40:LYS:HE3	42:PA:368:LEU:HD22	1.88	0.56
32:5L:351:LEU:HD11	32:5M:48:ILE:HG21	1.87	0.56
33:5W:69:ASP:OD2	33:5W:73:ARG:NH2	2.35	0.56
33:5W:398:THR:HA	33:5W:403:LYS:HD2	1.88	0.56
34:6B:107:PHE:CZ	34:6C:360:LYS:HB2	2.39	0.56
34:6B:364:HIS:CB	34:6B:455:LEU:HD11	2.35	0.56
34:6G:227:LEU:HB3	34:6H:74:ARG:HH21	1.69	0.56
34:6K:470:GLN:HA	34:6K:474:MET:HB2	1.85	0.56
34:6L:202:ARG:NH1	34:6L:216:GLU:OE1	2.38	0.56
37:7C:162:SER:HA	41:TJ:337:ASN:HD21	1.70	0.56
42:AE:434:GLU:O	41:AF:391:ARG:NH2	2.37	0.56
41:AH:85:PHE:HB2	41:AH:90:PHE:HE1	1.70	0.56
41:AH:290:THR:HG21	41:AH:329:GLN:HB3	1.88	0.56
42:AK:324:VAL:O	42:AK:326:LYS:N	2.38	0.56
42:BG:11:GLN:HG3	42:BG:74:VAL:HG21	1.86	0.56
41:BJ:67:ASP:HB2	41:BJ:143:THR:HG21	1.87	0.56
41:CB:17:GLY:HA2	41:CB:20:PHE:HB3	1.86	0.56
42:CC:347:CYS:SG	41:CD:179:VAL:HG13	2.45	0.56
41:CF:247:ASN:H	42:CG:11:GLN:HE22	1.54	0.56
41:CH:354:CYS:SG	41:CH:355:ASP:N	2.79	0.56
41:DB:190:HIS:HB2	41:DB:411:ALA:HA	1.87	0.56
41:DF:48:ASN:O	41:DF:62:ARG:NH2	2.37	0.56
41:DF:138:SER:OG	43:DF:501:GDP:O1B	2.23	0.56
41:DF:270:PHE:O	41:DF:298:ASN:ND2	2.38	0.56
42:DG:180:ALA:HB3	42:DG:183:GLU:HG3	1.87	0.56
41:DH:403:MET:HG3	41:DH:404:ASP:H	1.70	0.56
41:DJ:299:MET:HE2	41:DJ:303:CYS:HA	1.87	0.56
42:DK:198:SER:O	42:DK:199:ASP:C	2.43	0.56
41:DL:88:ASP:O	41:DL:89:ASN:C	2.43	0.56
41:DL:165:ASN:HD21	41:DL:250:LEU:HB3	1.70	0.56
42:EE:313:MET:HA	42:EE:344:VAL:HG12	1.87	0.56
42:FC:434:GLU:HG3	42:FC:435:VAL:N	2.20	0.56
42:FE:319:TYR:HB3	42:FE:323:VAL:HG21	1.87	0.56
41:FH:68:LEU:HD22	41:FH:97:ALA:H	1.70	0.56
42:FI:25:CYS:HA	42:FI:30:ILE:HB	1.88	0.56
42:FI:269:LEU:HD22	42:FI:303:VAL:HG11	1.85	0.56
41:FJ:25:SER:OG	41:FJ:51:TYR:OH	2.23	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:FK:172:TYR:CD2	42:FK:183:GLU:HB3	2.40	0.56
42:GC:214:ARG:NH2	42:GC:219:ILE:O	2.39	0.56
42:GE:259:LEU:O	42:GE:380:ASN:ND2	2.39	0.56
41:GF:163:ILE:HB	41:GF:251:ARG:HE	1.70	0.56
41:GJ:282:ARG:HB2	41:GJ:282:ARG:HH11	1.70	0.56
42:GM:56:THR:CG2	42:GM:60:LYS:HB3	2.34	0.56
41:HF:117:LEU:HD13	41:HF:154:LYS:HD2	1.88	0.56
41:HF:268:PRO:HA	41:HF:368:ILE:HD13	1.87	0.56
42:HG:298:PRO:HG3	42:HG:308:ARG:HD3	1.86	0.56
42:HK:54:SER:HB3	42:HK:64:ARG:CZ	2.36	0.56
41:HL:258:VAL:HB	42:HM:407:TRP:HZ2	1.70	0.56
41:ID:85:PHE:O	42:JC:283:HIS:NE2	2.36	0.56
41:IF:31:ASP:OD2	41:IF:37:HIS:ND1	2.38	0.56
41:IL:1:MET:N	41:IL:128:ASP:OD1	2.39	0.56
41:IL:261:PRO:O	41:IL:264:HIS:NE2	2.38	0.56
41:JH:184:ASN:OD1	41:JH:398:TYR:OH	2.23	0.56
41:JJ:354:CYS:SG	41:JJ:355:ASP:N	2.79	0.56
41:JL:100:ASN:HB3	41:JL:103:LYS:HG3	1.87	0.56
41:KJ:256:ASN:HB2	42:KK:181:VAL:HG22	1.86	0.56
41:KJ:395:LEU:HD21	41:KJ:408:PHE:HE2	1.70	0.56
41:KN:198:GLU:HA	41:KN:264:HIS:HB2	1.86	0.56
41:LF:274:THR:HG21	41:LF:282:ARG:HD3	1.87	0.56
42:LM:217:LEU:HD11	42:LM:275:VAL:HG22	1.87	0.56
42:MC:50:ASN:O	42:MC:64:ARG:NH1	2.39	0.56
41:MD:137:HIS:CE1	41:MD:192:LEU:HD11	2.40	0.56
41:MJ:318:ARG:HD3	41:MJ:358:PRO:HD3	1.87	0.56
41:NB:57:GLY:O	41:NB:58:LYS:C	2.43	0.56
41:ND:217:LEU:HB3	41:ND:276:ARG:HH11	1.69	0.56
41:NF:31:ASP:HB3	41:NF:32:PRO:HD2	1.87	0.56
42:NG:278:ALA:HA	42:NG:369:ALA:HB2	1.87	0.56
42:OA:244:PHE:HD2	42:OA:356:ASN:HD21	1.53	0.56
41:OB:58:LYS:O	41:OB:60:VAL:N	2.38	0.56
41:OB:116:VAL:HG11	41:OB:151:LEU:HD21	1.87	0.56
42:OE:261:PRO:HA	41:OF:394:PHE:CE1	2.39	0.56
41:OF:64:VAL:HA	41:OF:89:ASN:HB3	1.86	0.56
41:OF:202:ILE:HG13	41:OF:268:PRO:HG3	1.86	0.56
42:OK:385:ALA:HA	42:OK:388:TRP:HD1	1.70	0.56
42:PA:34:GLY:HA3	42:PA:60:LYS:HE2	1.87	0.56
42:PA:299:ALA:O	42:PA:301:GLN:N	2.38	0.56
41:PB:57:GLY:O	41:PB:58:LYS:C	2.43	0.56
41:PB:165:ASN:HB2	41:PB:200:TYR:CE2	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:PD:174:LYS:HB2	41:PD:205:GLU:HB2	1.88	0.56
42:PG:395:PHE:O	42:PG:396:ASP:C	2.42	0.56
42:PI:261:PRO:O	42:PI:262:TYR:C	2.44	0.56
42:PI:323:VAL:HG11	42:PI:355:ILE:HG12	1.87	0.56
41:QB:104:GLY:HA2	41:QB:109:GLY:HA3	1.86	0.56
42:QG:105:ARG:O	42:QG:110:ILE:HG12	2.06	0.56
42:QK:268:PRO:HA	42:QK:380:ASN:HA	1.85	0.56
41:RD:138:SER:HA	41:RD:169:VAL:HB	1.86	0.56
41:RH:101:TRP:NE1	41:RH:145:SER:O	2.39	0.56
42:RI:76:ASP:HA	42:RI:79:ARG:HG2	1.87	0.56
42:RK:50:ASN:O	42:RK:64:ARG:NH1	2.38	0.56
42:SC:191:THR:HA	42:SC:194:THR:HG22	1.87	0.56
42:SC:208:ALA:HB2	42:SC:304:LYS:HG2	1.87	0.56
42:SC:339:ARG:O	42:SC:342:GLN:NE2	2.38	0.56
41:SJ:5:VAL:HG12	41:SJ:62:ARG:HD3	1.88	0.56
41:TD:184:ASN:OD1	41:TD:398:TYR:OH	2.22	0.56
41:TF:167:PHE:CE2	41:TF:233:MET:HB3	2.40	0.56
42:TG:119:LEU:HD21	42:TG:156:ARG:HB3	1.86	0.56
42:TG:135:PHE:HE1	42:TG:164:LYS:HE3	1.71	0.56
41:TJ:7:LEU:HD22	41:TJ:151:LEU:HD21	1.85	0.56
42:TM:216:ASN:O	42:TM:280:LYS:NZ	2.38	0.56
42:UC:16:ILE:HD11	45:UC:501:GTP:HN21	1.71	0.56
42:UK:254:GLU:HB3	42:UK:352:LYS:HE2	1.86	0.56
41:VH:187:LEU:HD11	41:VH:408:PHE:HE1	1.70	0.56
42:VI:286:LEU:O	42:VI:373:ARG:NH1	2.38	0.56
41:VL:33:THR:O	41:VL:58:LYS:NZ	2.37	0.56
42:WG:208:ALA:HB2	42:WG:304:LYS:HG2	1.87	0.56
42:WK:68:VAL:HG12	42:WK:93:ILE:HB	1.87	0.56
42:WM:322:ASP:O	42:WM:373:ARG:NH1	2.38	0.56
41:WN:337:ASN:HB3	41:WN:340:TYR:HB2	1.87	0.56
20:3O:636:LYS:O	20:3O:638:VAL:N	2.39	0.56
22:4B:195:SER:O	22:4B:199:LEU:N	2.39	0.56
25:4I:181:SER:H	25:4I:200:GLY:HA2	1.71	0.56
28:4V:129:VAL:N	42:GC:127:ASP:OD2	2.38	0.56
34:6B:131:LYS:NZ	34:6C:430:THR:HA	2.20	0.56
34:6C:161:ILE:HG12	34:6C:258:LEU:HD21	1.86	0.56
34:6H:218:GLU:HB3	34:6H:343:VAL:HG22	1.87	0.56
42:AC:285:GLN:NE2	42:KE:128:GLN:OE1	2.39	0.56
42:AI:346:TRP:CZ2	42:AI:438:ASP:HA	2.40	0.56
41:AL:91:VAL:HG21	41:AL:116:VAL:HG22	1.87	0.56
42:BE:262:TYR:OH	41:BF:391:ARG:O	2.22	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:CH:205:GLU:HA	41:CH:208:TYR:CD2	2.40	0.56
42:CI:340:THR:HG23	42:CI:341:ILE:HD12	1.86	0.56
42:CI:360:PRO:HG3	42:CI:374:ALA:HB2	1.88	0.56
42:DC:204:VAL:HG21	42:DC:231:ILE:HD11	1.88	0.56
41:DJ:286:VAL:HG22	41:DJ:363:MET:HE1	1.87	0.56
41:DL:64:VAL:HG21	41:DL:120:VAL:HG22	1.87	0.56
42:DM:272:TYR:HD1	42:DM:376:CYS:HB2	1.69	0.56
41:ED:161:ASP:O	41:ED:162:ARG:C	2.44	0.56
42:EG:76:ASP:HA	42:EG:79:ARG:HD3	1.87	0.56
42:EI:217:LEU:HD11	42:EI:275:VAL:HG22	1.87	0.56
41:EL:113:VAL:HA	41:EL:116:VAL:HG12	1.87	0.56
41:EL:245:GLN:NE2	42:EM:224:TYR:CG	2.74	0.56
41:EL:260:PHE:HE1	42:EM:403:ALA:HA	1.71	0.56
42:FC:56:THR:HG21	42:FC:60:LYS:HD3	1.87	0.56
42:FE:253:THR:HA	42:FE:256:GLN:HG2	1.87	0.56
41:FH:302:ALA:HB3	41:FH:374:ILE:HD11	1.86	0.56
41:FJ:5:VAL:HG21	41:FJ:123:GLU:HB3	1.87	0.56
42:HC:73:THR:O	42:HC:74:VAL:C	2.44	0.56
42:IC:76:ASP:OD1	42:IC:79:ARG:NH1	2.39	0.56
42:IE:402:ARG:HD3	42:IE:405:VAL:HG21	1.86	0.56
42:IG:79:ARG:NH2	42:IG:92:LEU:O	2.37	0.56
41:JH:178:THR:HG22	41:JH:180:VAL:H	1.71	0.56
41:JL:202:ILE:HG23	41:JL:207:LEU:HD11	1.87	0.56
41:KD:283:ALA:HA	41:LD:55:THR:HG23	1.87	0.56
41:KF:67:ASP:HA	41:KF:143:THR:HG21	1.87	0.56
42:LG:254:GLU:OE1	41:LH:99:ASN:ND2	2.38	0.56
42:LM:71:GLU:HB2	42:LM:98:ASP:HB3	1.86	0.56
42:NK:119:LEU:HD23	42:NK:122:ILE:HD11	1.87	0.56
41:OD:7:LEU:HB2	41:OD:135:LEU:HG	1.86	0.56
42:OK:192:HIS:NE2	42:OK:417:GLU:OE2	2.38	0.56
42:OK:409:VAL:HA	42:OK:413:MET:HB3	1.87	0.56
41:PD:238:THR:HG21	41:PD:318:ARG:HG2	1.88	0.56
42:PE:439:SER:HA	41:PF:391:ARG:CZ	2.35	0.56
41:PH:239:CYS:O	41:PH:241:ARG:N	2.34	0.56
42:PI:60:LYS:O	42:PI:62:VAL:N	2.38	0.56
41:PJ:24:ILE:HG22	41:PJ:234:SER:HB2	1.88	0.56
42:QG:201:ALA:N	42:QG:266:HIS:O	2.38	0.56
42:RC:298:PRO:N	42:RC:298:PRO:HG2	1.91	0.56
42:RG:10:GLY:HA2	42:RG:145:THR:HG23	1.88	0.56
41:RJ:263:LEU:HB2	41:RJ:370:ASN:HD21	1.71	0.56
41:SF:108:GLU:O	41:SF:109:GLY:C	2.43	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:SF:311:LEU:HD12	41:SF:342:VAL:HG11	1.86	0.56
42:SK:4:CYS:HG	42:SK:51:THR:HG1	1.53	0.56
41:SL:298:ASN:O	41:SL:299:MET:C	2.42	0.56
42:TC:71:GLU:HG3	42:TC:98:ASP:HB3	1.86	0.56
41:TF:121:ARG:NH1	41:TF:158:GLU:OE2	2.37	0.56
41:TF:221:THR:HG23	41:TF:223:GLY:H	1.70	0.56
42:TI:329:ASN:HB3	41:TJ:175:VAL:HG12	1.86	0.56
42:TK:79:ARG:HA	42:TK:87:PHE:HZ	1.70	0.56
42:TM:172:TYR:N	42:TM:204:VAL:O	2.39	0.56
41:UD:164:MET:HB3	41:UD:196:THR:HA	1.87	0.56
41:UL:330:MET:HE1	41:UL:349:VAL:HG11	1.88	0.56
42:UM:141:PHE:HE2	42:UM:203:MET:HG2	1.70	0.56
42:VE:7:VAL:HG13	42:VE:137:ILE:HG23	1.88	0.56
42:WK:132:LEU:O	42:WK:164:LYS:NZ	2.37	0.56
42:WK:430:LYS:NZ	42:WK:434:GLU:OE1	2.38	0.56
41:WN:27:GLU:HA	41:WN:359:ARG:HH12	1.70	0.56
7:1U:256:ARG:NH2	42:MK:45:GLY:O	2.36	0.56
13:2S:131:ARG:HH12	24:4G:324:LEU:HG	1.69	0.56
19:3K:356:GLN:HA	19:3K:361:ILE:H	1.70	0.56
22:4C:88:MET:HA	42:AG:84:ARG:HD2	1.88	0.56
27:4T:196:ILE:HG23	27:4T:200:PHE:HE2	1.71	0.56
33:5Q:27:ASN:OD1	33:5Q:30:ARG:NH2	2.39	0.56
33:5V:74:TRP:HB3	33:5V:179:LYS:HE2	1.88	0.56
41:CB:252:LYS:CA	42:CC:100:ALA:HA	2.36	0.56
41:CF:103:LYS:HA	41:CF:107:THR:CG2	2.35	0.56
41:CH:165:ASN:ND2	41:CH:198:GLU:OE1	2.38	0.56
41:DB:194:GLU:HA	41:DB:264:HIS:CE1	2.40	0.56
41:DD:390:ARG:HG3	41:DD:391:ARG:HG2	1.87	0.56
42:DM:202:PHE:HE2	42:DM:378:LEU:HB3	1.71	0.56
42:EK:137:ILE:HD12	42:EK:154:MET:HG2	1.86	0.56
42:EM:338:LYS:HZ3	42:EM:339:ARG:H	1.53	0.56
42:FG:20:CYS:HB3	42:FG:24:TYR:CE2	2.41	0.56
42:FK:16:ILE:HA	42:FK:228:ASN:HB3	1.87	0.56
42:FK:262:TYR:HB2	42:FK:265:ILE:HD11	1.87	0.56
42:FM:141:PHE:HB2	42:FM:173:PRO:HD3	1.87	0.56
42:FM:172:TYR:HE2	42:FM:175:PRO:HD3	1.71	0.56
42:FM:238:ILE:HG23	42:FM:239:THR:HG23	1.87	0.56
41:GJ:331:LEU:HB2	42:GK:177:VAL:HG11	1.88	0.56
42:HC:274:PRO:CG	42:HC:374:ALA:HA	2.29	0.56
42:HK:71:GLU:HG2	42:HK:98:ASP:HB3	1.88	0.56
42:HK:99:ALA:HB3	45:HK:501:GTP:O2G	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:HL:198:GLU:HG2	41:HL:266:PHE:HE2	1.69	0.56
42:IK:332:ILE:HG23	41:IL:175:VAL:HG21	1.86	0.56
42:IM:258:ASN:OD1	41:IN:179:VAL:HB	2.05	0.56
42:JM:141:PHE:HD2	42:JM:172:TYR:HA	1.71	0.56
41:KF:33:THR:O	41:KF:58:LYS:NZ	2.39	0.56
42:KG:251:ASP:HB3	42:KG:254:GLU:HG3	1.86	0.56
42:LE:180:ALA:HB3	42:LE:183:GLU:HB2	1.88	0.56
42:LM:50:ASN:O	42:LM:64:ARG:NH1	2.38	0.56
41:LN:271:ALA:HA	41:LN:298:ASN:HD21	1.71	0.56
42:MC:323:VAL:HG23	42:MC:355:ILE:HG23	1.86	0.56
42:OA:248:LEU:HD11	41:OB:222:TYR:HE2	1.70	0.56
41:OL:393:ALA:O	41:OL:395:LEU:N	2.39	0.56
41:PB:19:LYS:HG3	41:PB:226:ASN:HB3	1.86	0.56
41:PB:36:TYR:CE2	41:PB:44:LEU:HD11	2.41	0.56
42:PC:119:LEU:HD21	42:PC:153:LEU:HD12	1.86	0.56
42:PG:115:ILE:HD13	42:PG:152:LEU:HB3	1.87	0.56
41:PH:345:ILE:HD12	42:PI:404:PHE:CE2	2.40	0.56
41:PL:309:ARG:O	41:PL:310:TYR:C	2.43	0.56
41:QD:170:VAL:HG11	41:QD:377:LEU:HD21	1.88	0.56
41:QD:385:PHE:HE2	41:QD:412:GLU:HB3	1.71	0.56
41:RF:395:LEU:O	41:RF:396:HIS:C	2.44	0.56
41:RH:172:SER:OG	41:RH:175:VAL:O	2.23	0.56
41:RJ:259:PRO:HG2	41:RJ:311:LEU:HB3	1.87	0.56
41:SH:86:ARG:NH1	41:TH:281:TYR:O	2.39	0.56
42:TC:172:TYR:HD2	42:TC:203:MET:HG2	1.70	0.56
41:TH:314:ALA:HB3	41:TH:368:ILE:HB	1.87	0.56
42:UG:84:ARG:HH21	42:UG:85:GLN:H	1.52	0.56
42:UG:392:ASP:HB3	42:UG:422:ARG:HH12	1.71	0.56
41:UJ:172:SER:OG	41:UJ:175:VAL:O	2.20	0.56
41:UJ:257:MET:HG3	41:UJ:266:PHE:CZ	2.40	0.56
41:VF:383:GLU:HA	41:VF:386:THR:HG22	1.88	0.56
42:WI:307:PRO:HB3	42:WI:312:TYR:HE1	1.70	0.56
19:3L:289:PRO:HG2	19:3L:290:LEU:HD12	1.87	0.56
20:3P:395:LEU:HD12	20:3P:396:MET:HG2	1.86	0.56
27:4R:90:LYS:HA	41:WJ:111:GLU:OE2	2.06	0.56
32:5N:193:ASN:O	33:5W:413:ARG:NH1	2.38	0.56
33:5W:40:GLN:NE2	34:6A:130:ASP:OD1	2.39	0.56
33:5X:258:ARG:NH2	33:5X:394:ARG:O	2.39	0.56
37:7D:27:GLY:H	42:TE:338:LYS:HE2	1.71	0.56
41:AH:16:ILE:HD13	41:AH:229:VAL:HG21	1.88	0.56
41:AH:49:VAL:HG11	41:AH:241:ARG:HG2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BB:234:SER:O	41:BB:241:ARG:NH2	2.38	0.56
41:BB:287:PRO:HA	41:BB:329:GLN:HE22	1.69	0.56
41:BD:186:THR:HG23	41:BD:381:ILE:HG22	1.87	0.56
42:BK:70:LEU:HA	42:BK:95:GLY:HA3	1.88	0.56
42:CG:137:ILE:HG12	42:CG:154:MET:HE3	1.87	0.56
41:DB:279:GLN:HG2	41:DB:280:GLN:H	1.71	0.56
42:DI:326:LYS:CE	41:DJ:220:PRO:HG2	2.30	0.56
41:DJ:389:PHE:O	41:DJ:390:ARG:C	2.44	0.56
41:DJ:391:ARG:O	41:DJ:392:LYS:C	2.43	0.56
42:DM:269:LEU:HD22	42:DM:384:ILE:HD11	1.87	0.56
42:EC:371:VAL:HG12	42:EC:373:ARG:H	1.70	0.56
41:FD:129:CYS:SG	42:FE:96:LYS:HB2	2.45	0.56
41:FD:246:LEU:HD21	42:FE:179:THR:HB	1.86	0.56
42:FK:194:THR:O	42:FK:198:SER:HB3	2.06	0.56
41:GL:255:VAL:HG23	42:GM:407:TRP:CB	2.35	0.56
41:HB:394:PHE:CE1	42:HM:261:PRO:HA	2.41	0.56
41:HH:305:PRO:O	41:HH:308:GLY:N	2.34	0.56
41:HJ:99:ASN:ND2	41:HJ:178:THR:HG21	2.21	0.56
42:IC:169:PHE:HE1	42:IC:235:VAL:HG22	1.71	0.56
41:IJ:86:ARG:NH2	42:JI:284:GLU:OE1	2.39	0.56
41:IN:8:GLN:HE21	41:IN:14:ASN:HA	1.71	0.56
41:JD:2:ARG:HG3	41:JD:240:LEU:HD23	1.88	0.56
42:JM:193:THR:HA	42:JM:197:HIS:HD2	1.71	0.56
42:LG:248:LEU:HD12	41:LH:11:GLN:HE22	1.70	0.56
42:LK:175:PRO:HB2	42:LK:390:ARG:HH11	1.70	0.56
42:MC:88:HIS:HB3	42:MC:91:GLN:NE2	2.21	0.56
41:MD:345:ILE:HD13	42:ME:398:MET:HG2	1.87	0.56
41:MN:299:MET:N	41:MN:299:MET:SD	2.78	0.56
42:NA:187:SER:HA	42:NA:190:THR:HG22	1.88	0.56
42:OK:199:ASP:O	42:OK:266:HIS:ND1	2.39	0.56
41:OL:122:LYS:NZ	41:PL:291:GLN:HB2	2.21	0.56
41:PD:323:MET:O	41:PD:324:LYS:C	2.43	0.56
41:PD:389:PHE:HE1	41:PD:409:THR:HG22	1.71	0.56
41:PH:296:ALA:O	41:PH:297:LYS:C	2.43	0.56
41:QJ:139:LEU:HD12	41:QJ:139:LEU:H	1.69	0.56
41:RB:203:ASP:HB2	41:RB:302:ALA:H	1.69	0.56
41:RD:136:THR:HG22	41:RD:167:PHE:HB2	1.86	0.56
41:RD:182:PRO:HB3	41:RD:384:GLN:HB3	1.88	0.56
41:RF:40:SER:HB2	41:RF:42:LEU:HG	1.87	0.56
42:RG:21:TRP:CZ3	42:RG:63:PRO:HB2	2.40	0.56
41:RH:207:LEU:HD23	41:RH:225:LEU:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:RK:438:ASP:HA	41:RL:391:ARG:HH22	1.71	0.56
42:SC:269:LEU:HD23	42:SC:301:GLN:HB3	1.87	0.56
42:TG:101:ASN:O	42:TG:408:TYR:OH	2.21	0.56
42:TG:204:VAL:HG13	42:TG:302:MET:HB3	1.86	0.56
42:UC:67:PHE:HB2	42:UC:92:LEU:HD12	1.87	0.56
41:VD:68:LEU:HD12	41:VD:97:ALA:HB2	1.87	0.56
41:WH:49:VAL:HG11	41:WH:241:ARG:HB3	1.88	0.56
41:WN:42:LEU:HD23	41:WN:356:ILE:HD11	1.87	0.56
3:1I:330:LEU:HD12	42:TE:32:PRO:HG2	1.88	0.56
5:1N:35:HIS:O	41:KD:416:ASN:ND2	2.39	0.56
9:2D:567:TYR:CE2	41:IN:276:ARG:CZ	2.86	0.56
20:3O:12:TRP:HZ2	41:KH:92:PHE:HB2	1.71	0.56
20:3O:108:ASN:OD1	41:BF:219:THR:OG1	2.24	0.56
22:4A:21:THR:HG21	42:BK:72:PRO:HB2	1.88	0.56
32:5O:84:LEU:HD21	32:5O:167:ALA:HB3	1.88	0.56
33:5V:120:ARG:O	33:5V:123:ARG:NE	2.34	0.56
34:6H:356:ASP:OD2	34:6H:360:LYS:NZ	2.34	0.56
34:6K:197:GLU:OE1	34:6K:201:HIS:NE2	2.39	0.56
38:7H:206:ARG:HD3	42:HC:117:LEU:HG	1.87	0.56
41:AH:271:ALA:HB3	41:AH:272:PRO:HD3	1.87	0.56
42:CG:206:ASN:HD21	42:CG:224:TYR:HE1	1.52	0.56
42:CG:209:ILE:HG21	42:CG:227:LEU:HG	1.86	0.56
41:CL:28:HIS:HA	41:CL:43:GLN:HB2	1.87	0.56
41:CL:317:PHE:N	41:CL:352:ALA:O	2.38	0.56
41:DB:324:LYS:HG2	42:DC:214:ARG:NH2	2.21	0.56
41:DD:222:TYR:O	41:DD:226:ASN:ND2	2.39	0.56
42:DG:312:TYR:HE1	42:DG:341:ILE:HG23	1.71	0.56
41:DL:311:LEU:HG	41:DL:312:THR:HG23	1.88	0.56
42:DM:291:ILE:HG22	42:DM:375:VAL:HG12	1.87	0.56
41:ED:214:THR:OG1	41:ED:215:LEU:N	2.33	0.56
42:EG:51:THR:HG21	42:EG:243:ARG:HB3	1.87	0.56
42:EI:102:ASN:HB2	42:EI:105:ARG:HB2	1.87	0.56
42:EK:319:TYR:HB3	42:EK:323:VAL:HG21	1.88	0.56
42:EM:154:MET:HB3	42:EM:197:HIS:HB3	1.88	0.56
42:EM:250:VAL:HG23	42:EM:254:GLU:HB3	1.88	0.56
41:FD:107:THR:OG1	41:FD:108:GLU:N	2.39	0.56
41:FF:87:PRO:HA	41:FF:90:PHE:HD1	1.71	0.56
41:FF:169:VAL:HA	41:FF:202:ILE:HB	1.86	0.56
42:FG:315:CYS:HA	42:FG:379:SER:HA	1.87	0.56
41:FH:267:MET:HB3	41:FH:370:ASN:H	1.70	0.56
42:FM:108:TYR:HA	42:FM:112:LYS:HE3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:GM:34:GLY:O	42:GM:35:GLN:C	2.44	0.56
42:HC:319:TYR:HB3	42:HC:323:VAL:HG11	1.86	0.56
41:ID:316:VAL:HG12	41:ID:352:ALA:HB3	1.85	0.56
42:IK:88:HIS:HB3	42:IK:91:GLN:HG2	1.87	0.56
42:IK:167:LEU:HD21	42:IK:252:LEU:HD11	1.88	0.56
41:IL:373:ALA:O	41:IL:376:GLU:HG2	2.05	0.56
42:JK:58:ALA:HB3	42:MK:282:TYR:CE1	2.40	0.56
42:JM:335:ILE:HG23	42:JM:341:ILE:HD13	1.88	0.56
42:KC:238:ILE:HG23	42:KC:255:PHE:HE2	1.70	0.56
42:KG:311:LYS:NZ	42:KG:436:GLY:O	2.39	0.56
42:MK:224:TYR:O	42:MK:228:ASN:ND2	2.38	0.56
41:MN:28:HIS:HB3	41:MN:47:ILE:HD12	1.86	0.56
41:OD:46:ARG:NH2	42:OE:76:ASP:OD2	2.39	0.56
42:PC:346:TRP:CD1	41:PD:391:ARG:HB2	2.41	0.56
42:PE:260:VAL:HB	41:PF:397:TRP:CH2	2.41	0.56
41:PF:145:SER:O	41:PF:146:GLY:C	2.43	0.56
42:PI:151:SER:O	42:PI:152:LEU:C	2.44	0.56
41:RF:5:VAL:H	41:RF:130:LEU:HD11	1.70	0.56
41:RH:418:LEU:HA	41:RH:421:GLU:HB2	1.86	0.56
42:SK:4:CYS:HB3	42:SK:133:GLN:NE2	2.21	0.56
41:SL:137:HIS:CE1	41:SL:148:GLY:HA3	2.40	0.56
41:SL:209:ASP:HB2	41:SL:213:ARG:HD3	1.87	0.56
42:TE:217:LEU:HD22	42:TE:367:ASP:HB2	1.88	0.56
41:TF:262:ARG:NH1	41:TF:421:GLU:OE2	2.39	0.56
42:UG:202:PHE:HE1	42:UG:268:PRO:HG2	1.70	0.56
42:UK:320:ARG:HB3	42:UK:360:PRO:HD3	1.87	0.56
42:VE:256:GLN:HE21	41:VF:397:TRP:HH2	1.52	0.56
42:VG:64:ARG:NH1	42:VG:129:CYS:SG	2.79	0.56
42:VM:7:VAL:HG11	42:VM:153:LEU:HD21	1.87	0.56
16:3C:188:LEU:HD22	41:VL:306:ARG:HB2	1.86	0.56
20:3P:270:LEU:HD12	20:3P:271:PRO:HD2	1.86	0.56
24:4F:136:GLU:OE2	42:HC:370:LYS:HB3	2.05	0.56
31:5D:64:ARG:NH1	41:OB:35:THR:OG1	2.39	0.56
31:5D:67:LEU:HA	31:5D:70:PHE:HD2	1.71	0.56
31:5F:17:LYS:HZ2	31:5F:68:LEU:HB3	1.71	0.56
32:5O:81:LEU:O	32:5O:85:VAL:HG23	2.06	0.56
32:5O:224:ASN:HA	32:5O:227:LYS:HD3	1.88	0.56
33:5T:122:SER:O	33:5T:123:ARG:C	2.43	0.56
34:6L:93:ARG:HB3	34:6M:212:HIS:HB2	1.86	0.56
35:6R:50:LYS:HA	35:6S:167:LEU:O	2.06	0.56
37:7C:112:THR:O	37:7C:118:SER:OG	2.23	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:AF:327:ASP:HB3	42:AG:177:VAL:HG21	1.87	0.56
41:AH:380:ARG:O	41:AH:383:GLU:HG3	2.06	0.56
42:BE:269:LEU:HD21	42:BE:384:ILE:HD13	1.87	0.56
41:BJ:392:LYS:HA	41:BJ:395:LEU:HD23	1.88	0.56
41:CB:346:PRO:HG3	42:CC:394:LYS:HB3	1.87	0.56
42:CM:322:ASP:HB2	42:CM:373:ARG:HH12	1.71	0.56
41:ED:251:ARG:HG2	42:EE:100:ALA:HB2	1.88	0.56
42:EE:99:ALA:O	42:EE:100:ALA:C	2.44	0.56
42:EE:174:ALA:HB1	42:EE:207:GLU:HB2	1.87	0.56
41:EJ:46:ARG:NH2	42:EK:72:PRO:O	2.39	0.56
41:EJ:306:ARG:O	41:EJ:340:TYR:OH	2.20	0.56
41:EL:4:ILE:HG22	41:EL:49:VAL:HG22	1.87	0.56
42:EM:295:CYS:HB3	42:EM:377:MET:HE2	1.88	0.56
42:FC:184:PRO:HB3	42:FC:394:LYS:HG3	1.88	0.56
42:FC:287:SER:O	42:FC:288:VAL:C	2.44	0.56
41:FD:284:LEU:HD12	41:FD:363:MET:HG2	1.88	0.56
41:FH:303:CYS:H	41:FH:377:LEU:HB2	1.71	0.56
42:FI:258:ASN:HD21	41:FJ:178:THR:HG23	1.71	0.56
42:GG:259:LEU:HD21	42:GG:268:PRO:HB3	1.88	0.56
41:GL:7:LEU:HD12	41:GL:135:LEU:HD13	1.86	0.56
42:GM:349:THR:O	42:GM:351:PHE:N	2.38	0.56
41:HB:292:GLN:O	41:HB:298:ASN:ND2	2.38	0.56
41:HD:109:GLY:O	41:HD:112:LEU:N	2.33	0.56
41:HJ:210:ILE:HD11	41:HJ:298:ASN:HA	1.86	0.56
41:HL:324:LYS:CB	42:HM:222:PRO:HD2	2.36	0.56
42:IE:255:PHE:HE2	42:IE:318:LEU:HD11	1.70	0.56
41:IF:237:THR:HB	41:IF:240:LEU:HD12	1.88	0.56
41:JD:314:ALA:HB3	41:JD:368:ILE:HG23	1.87	0.56
41:KJ:50:TYR:HH	41:KJ:237:THR:HG1	1.53	0.56
41:KJ:117:LEU:HD11	41:KJ:154:LYS:HB3	1.87	0.56
41:LJ:347:ASN:HD22	42:LK:178:SER:HB3	1.71	0.56
41:MN:313:VAL:HG23	41:MN:348:ASN:HB2	1.87	0.56
42:OC:107:HIS:HD2	42:OC:152:LEU:HG	1.69	0.56
42:PA:310:GLY:HA3	42:PA:383:ALA:HB2	1.87	0.56
42:PC:100:ALA:O	42:PC:102:ASN:N	2.39	0.56
42:PG:224:TYR:C	42:PG:226:ASN:H	2.10	0.56
41:PH:414:ASN:O	41:PH:417:ASP:N	2.39	0.56
42:PI:258:ASN:ND2	41:PJ:179:VAL:H	2.03	0.56
41:PJ:252:LYS:HA	41:PJ:255:VAL:HG12	1.88	0.56
41:PL:48:ASN:O	41:PL:49:VAL:C	2.44	0.56
41:QF:375:GLN:HE22	41:QF:379:LYS:HE3	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:RF:159:TYR:HD2	41:RF:162:ARG:HG3	1.69	0.56
41:RH:1:MET:SD	41:RH:2:ARG:N	2.78	0.56
42:UE:169:PHE:HZ	42:UE:238:ILE:HG21	1.71	0.56
41:VH:325:GLU:OE1	42:VI:221:ARG:NH2	2.38	0.56
42:VI:208:ALA:HB2	42:VI:304:LYS:HG2	1.86	0.56
42:VK:88:HIS:HB2	42:VK:91:GLN:HG3	1.88	0.56
41:WH:393:ALA:O	41:WH:395:LEU:N	2.39	0.56
41:WL:377:LEU:HG	41:WL:380:ARG:HH22	1.71	0.56
3:1I:269:HIS:CE1	42:TG:370:LYS:HZ3	2.23	0.56
9:2D:575:ARG:HH12	41:IN:358:PRO:HB2	1.69	0.56
12:2P:112:LEU:HD11	42:VG:42:ILE:HA	1.87	0.56
22:3X:107:CYS:HA	22:3X:110:VAL:HG12	1.87	0.56
22:3Z:24:CYS:HB3	22:3Z:27:LEU:HD22	1.86	0.56
22:4A:105:LYS:HE2	22:4A:109:GLN:HG3	1.88	0.56
27:4Q:199:ILE:HG12	41:AF:424:GLN:HB2	1.87	0.56
32:5M:363:LYS:HA	32:5M:366:ASN:HD22	1.71	0.56
32:5N:311:LYS:HA	32:5N:314:HIS:HB2	1.87	0.56
35:6U:370:ARG:NH1	35:6W:7:LEU:O	2.38	0.56
41:AB:274:THR:OG1	41:AB:282:ARG:NH1	2.39	0.56
41:AD:255:VAL:HG12	42:AE:100:ALA:HB1	1.88	0.56
42:AE:129:CYS:SG	42:AE:130:THR:N	2.79	0.56
42:BC:216:ASN:O	42:BC:280:LYS:NZ	2.38	0.56
42:BC:328:VAL:HG11	42:BC:353:VAL:HG21	1.88	0.56
41:BH:7:LEU:HG	41:BH:135:LEU:HD13	1.87	0.56
41:BH:48:ASN:O	41:BH:62:ARG:NH2	2.38	0.56
41:CB:215:LEU:HD11	41:CB:273:LEU:HD22	1.87	0.56
41:CD:333:VAL:HG22	41:CD:337:ASN:HD21	1.70	0.56
41:CJ:193:VAL:HA	41:CJ:264:HIS:CE1	2.41	0.56
42:CM:88:HIS:HB3	42:CM:91:GLN:HB2	1.87	0.56
41:DH:113:VAL:HA	41:DH:116:VAL:CG1	2.35	0.56
41:DJ:151:LEU:O	41:DJ:155:ILE:HG13	2.06	0.56
41:DL:101:TRP:O	41:DL:105:HIS:ND1	2.38	0.56
41:ED:98:GLY:O	41:ED:99:ASN:C	2.43	0.56
41:EF:344:TRP:NE1	42:EG:401:LYS:HB2	2.19	0.56
42:FC:167:LEU:HB3	42:FC:202:PHE:HE2	1.70	0.56
42:FC:174:ALA:HB1	42:FC:207:GLU:HB2	1.88	0.56
42:FC:261:PRO:HD2	42:FC:265:ILE:HB	1.88	0.56
41:FF:292:GLN:O	41:FF:298:ASN:ND2	2.38	0.56
41:FL:139:LEU:HB3	41:FL:171:PRO:HD3	1.88	0.56
41:FL:207:LEU:HD22	41:FL:228:LEU:HD12	1.87	0.56
42:FM:54:SER:N	42:FM:62:VAL:O	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:GF:61:PRO:HD3	41:GF:84:ILE:HG12	1.88	0.56
41:GF:210:ILE:HD11	41:GF:298:ASN:HA	1.87	0.56
42:HC:238:ILE:HG23	42:HC:239:THR:HG23	1.88	0.56
42:IC:142:GLY:HA2	42:IC:183:GLU:HG3	1.88	0.56
42:II:132:LEU:HD22	42:II:164:LYS:HD2	1.88	0.56
42:IM:258:ASN:ND2	42:IM:352:LYS:HD3	2.21	0.56
41:JF:6:HIS:HE1	41:JF:8:GLN:HB3	1.71	0.56
41:JJ:290:THR:HG21	41:JJ:329:GLN:HB3	1.88	0.56
41:KF:237:THR:HG22	41:KF:250:LEU:HD21	1.86	0.56
41:KH:173:PRO:HD2	41:KH:205:GLU:HG3	1.87	0.56
41:KJ:3:GLU:HA	41:KJ:49:VAL:HA	1.88	0.56
41:KL:272:PRO:HG3	41:KL:364:SER:HA	1.87	0.56
41:KN:274:THR:HG21	41:KN:282:ARG:HD3	1.88	0.56
42:LC:188:ILE:HG23	42:LC:425:MET:HG3	1.88	0.56
41:LN:27:GLU:OE2	41:LN:318:ARG:NH2	2.38	0.56
41:LN:236:VAL:HG13	41:LN:237:THR:HG23	1.87	0.56
41:MJ:130:LEU:O	41:MJ:162:ARG:NE	2.39	0.56
42:MK:175:PRO:O	42:MK:394:LYS:NZ	2.37	0.56
41:ML:161:ASP:O	41:ML:251:ARG:NH2	2.39	0.56
42:NC:273:ALA:HB3	42:NC:274:PRO:HD3	1.86	0.56
42:NK:174:ALA:HB1	42:NK:207:GLU:HG2	1.88	0.56
41:OD:173:PRO:HD2	41:OD:205:GLU:HG2	1.88	0.56
42:OG:274:PRO:HD3	42:OG:374:ALA:HA	1.87	0.56
41:OH:317:PHE:HB3	41:OH:321:MET:HE1	1.88	0.56
42:OI:27:GLU:OE2	42:OI:236:SER:OG	2.24	0.56
41:PH:119:VAL:HA	41:PH:122:LYS:HB3	1.87	0.56
42:PI:307:PRO:HB3	42:PI:312:TYR:HE2	1.71	0.56
42:QE:53:PHE:HB3	42:QE:61:HIS:HB3	1.88	0.56
42:QG:277:SER:O	42:QG:281:ALA:N	2.37	0.56
42:QI:362:VAL:HB	42:QI:370:LYS:HB2	1.88	0.56
41:QL:157:GLU:O	41:QL:158:GLU:C	2.44	0.56
41:QL:217:LEU:O	41:QL:218:THR:C	2.44	0.56
41:QL:313:VAL:HG12	41:QL:349:VAL:HA	1.88	0.56
42:RC:195:LEU:HD11	42:RC:264:ARG:HG3	1.87	0.56
41:RJ:66:VAL:HB	41:RJ:91:VAL:HG13	1.87	0.56
41:RL:191:GLN:NE2	41:RL:195:ASN:OD1	2.38	0.56
42:SG:91:GLN:HE22	42:SG:125:LEU:HD21	1.71	0.56
42:SM:314:ALA:HB3	42:SM:380:ASN:HB2	1.87	0.56
42:TE:241:SER:OG	42:TE:250:VAL:O	2.21	0.56
42:UC:223:THR:H	42:UC:226:ASN:HD21	1.54	0.56
42:UE:403:ALA:O	42:UE:405:VAL:N	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:VC:169:PHE:CE1	42:VC:235:VAL:HG22	2.41	0.56
41:VJ:298:ASN:HD22	41:VJ:298:ASN:C	2.09	0.56
41:WD:202:ILE:HG21	41:WD:229:VAL:HG22	1.88	0.56
42:WG:346:TRP:HB3	41:WH:391:ARG:HD3	1.88	0.56
41:WJ:18:ALA:HB2	41:WJ:76:VAL:HG23	1.87	0.56
9:2D:471:TYR:O	42:IK:221:ARG:HD2	2.05	0.56
11:2M:371:ARG:NH2	42:UM:370:LYS:O	2.30	0.56
24:4G:383:LYS:HA	24:4G:386:GLU:HB3	1.88	0.56
27:4R:45:LYS:C	27:4R:47:MET:H	2.10	0.56
32:5O:109:LEU:HB2	32:5O:143:ILE:HD12	1.88	0.56
33:5X:391:MET:HA	33:5X:394:ARG:HB2	1.86	0.56
34:6B:165:ASP:HA	34:6B:168:ILE:HD12	1.87	0.56
34:6G:143:THR:OG1	34:6G:275:ARG:NH2	2.38	0.56
35:6R:312:GLU:HG2	35:6R:316:HIS:HE1	1.71	0.56
42:AC:254:GLU:HG3	41:AD:98:GLY:HA2	1.88	0.56
41:AD:318:ARG:HB3	41:AD:357:PRO:HA	1.88	0.56
41:AF:86:ARG:HB3	41:AF:89:ASN:HB2	1.88	0.56
41:BD:118:ASP:HA	41:BD:121:ARG:HD2	1.88	0.56
41:BF:252:LYS:NZ	45:BG:501:GTP:O1G	2.39	0.56
42:BG:98:ASP:O	42:BG:105:ARG:NH2	2.39	0.56
41:BH:330:MET:HB3	41:BH:349:VAL:HG11	1.88	0.56
41:CB:236:VAL:HG13	41:CB:237:THR:HG23	1.88	0.56
41:CB:324:LYS:CG	42:CC:222:PRO:HD2	2.35	0.56
42:DE:90:GLU:O	42:DE:92:LEU:N	2.39	0.56
42:EC:3:GLU:HB2	42:EC:132:LEU:HA	1.88	0.56
42:EC:3:GLU:OE1	42:EC:64:ARG:NH1	2.38	0.56
41:EF:103:LYS:HA	41:EF:107:THR:HB	1.87	0.56
41:FD:144:GLY:N	43:FD:501:GDP:O2B	2.37	0.56
41:FH:10:GLY:O	41:FH:14:ASN:ND2	2.31	0.56
41:FJ:290:THR:HG21	41:FJ:329:GLN:HB3	1.88	0.56
41:FL:303:CYS:O	41:FL:304:ASP:C	2.44	0.56
41:GJ:42:LEU:HA	41:GJ:45:GLU:HG2	1.87	0.56
42:HG:88:HIS:HD2	42:HG:90:GLU:HB2	1.65	0.56
42:HG:107:HIS:HB2	42:HG:148:GLY:HA2	1.88	0.56
42:HG:163:LYS:O	42:HG:164:LYS:C	2.45	0.56
42:HG:346:TRP:HZ2	42:HG:435:VAL:HG13	1.71	0.56
41:HH:22:GLU:HG2	41:HH:81:PHE:CD2	2.41	0.56
41:HH:286:VAL:HG21	41:HH:325:GLU:HB3	1.87	0.56
41:ID:36:TYR:OH	41:ID:40:SER:O	2.24	0.56
42:IM:195:LEU:HD22	42:IM:428:LEU:HD12	1.87	0.56
42:KG:49:PHE:HD2	42:KG:53:PHE:HB2	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:KI:242:LEU:HD11	42:KI:252:LEU:HG	1.87	0.56
41:LD:258:VAL:HG22	41:LD:266:PHE:HZ	1.70	0.56
41:LL:3:GLU:HA	41:LL:49:VAL:HA	1.88	0.56
42:MC:274:PRO:HG2	42:MC:374:ALA:HA	1.88	0.56
42:ME:79:ARG:NH2	42:ME:92:LEU:O	2.39	0.56
42:MG:115:ILE:HD11	42:MG:156:ARG:HG3	1.87	0.56
41:MJ:218:THR:HG23	41:MJ:219:THR:HG22	1.88	0.56
42:MK:213:CYS:HB3	42:MK:222:PRO:HG3	1.87	0.56
41:ND:355:ASP:O	41:ND:356:ILE:C	2.44	0.56
42:OA:139:HIS:ND1	42:OA:150:THR:HG21	2.20	0.56
41:OF:393:ALA:O	41:OF:395:LEU:N	2.39	0.56
41:OJ:1:MET:HA	42:OK:96:LYS:NZ	2.21	0.56
41:OL:147:MET:N	41:OL:147:MET:SD	2.70	0.56
41:PJ:61:PRO:HG2	41:PJ:84:ILE:HB	1.87	0.56
41:RF:265:PHE:H	41:RF:370:ASN:HD21	1.54	0.56
42:RI:12:ALA:HA	42:RI:15:GLN:HE21	1.69	0.56
42:SC:318:LEU:HA	42:SC:354:GLY:HA3	1.87	0.56
42:SG:319:TYR:HB3	42:SG:323:VAL:HG11	1.86	0.56
42:SI:395:PHE:HZ	42:SI:418:PHE:HB3	1.71	0.56
42:SK:291:ILE:HG13	42:SK:375:VAL:HG13	1.88	0.56
42:SM:243:ARG:HE	42:SM:244:PHE:HE1	1.54	0.56
41:TD:215:LEU:HD11	41:TD:273:LEU:HD23	1.87	0.56
42:TG:27:GLU:OE1	42:TG:243:ARG:NH2	2.39	0.56
42:TG:36:MET:HG3	42:TG:61:HIS:CE1	2.41	0.56
42:TI:187:SER:HB2	42:TI:391:LEU:HD21	1.88	0.56
42:TI:408:TYR:HB2	42:TI:418:PHE:HZ	1.71	0.56
41:TL:2:ARG:HD3	41:TL:240:LEU:HD12	1.87	0.56
42:VG:27:GLU:OE1	42:VG:320:ARG:NH2	2.37	0.56
42:VG:244:PHE:HB2	42:VG:356:ASN:HD21	1.70	0.56
42:WI:141:PHE:HB3	42:WI:173:PRO:HD3	1.88	0.56
42:WM:269:LEU:HD22	42:WM:303:VAL:HG11	1.87	0.56
19:3K:131:MET:HB2	19:3K:154:LEU:HD12	1.88	0.55
25:4J:59:ASP:O	25:4J:64:ASN:ND2	2.39	0.55
26:4L:242:LEU:HD21	42:GK:156:ARG:HH11	1.70	0.55
27:4Q:117:CYS:HB2	27:4Q:159:LEU:HD12	1.88	0.55
32:5M:341:VAL:HG11	32:5N:205:VAL:HG11	1.88	0.55
33:5S:294:HIS:HE2	33:5S:367:TYR:HH	1.54	0.55
34:6A:110:SER:O	34:6A:111:ASN:C	2.44	0.55
34:6G:112:THR:O	34:6G:116:ASN:N	2.38	0.55
34:6L:351:ILE:HD11	34:6L:470:GLN:H	1.71	0.55
34:6L:382:ILE:HG21	34:6L:438:LEU:HB2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:6R:138:LEU:HD13	35:6R:282:ILE:HG23	1.88	0.55
35:6T:365:ASN:OD1	35:6T:366:VAL:N	2.38	0.55
37:7F:90:LEU:HD11	41:NB:122:LYS:HD3	1.87	0.55
41:AF:211:CYS:HA	41:AF:215:LEU:HB2	1.87	0.55
41:AH:193:VAL:HA	41:AH:264:HIS:HE1	1.71	0.55
41:BF:273:LEU:O	41:BF:292:GLN:NE2	2.35	0.55
42:BG:1:MET:HG2	42:BG:2:ARG:HD3	1.88	0.55
42:BK:36:MET:HB2	42:BK:61:HIS:HE2	1.71	0.55
41:CB:202:ILE:HD11	41:CB:267:MET:HG3	1.87	0.55
41:CB:316:VAL:HA	41:CB:352:ALA:HB3	1.86	0.55
42:CC:248:LEU:HA	41:CD:11:GLN:HE22	1.70	0.55
42:CC:319:TYR:HB3	42:CC:323:VAL:HG21	1.88	0.55
41:CF:49:VAL:HG11	41:CF:241:ARG:HG2	1.88	0.55
41:CF:107:THR:OG1	41:CF:108:GLU:N	2.39	0.55
41:CF:227:HIS:HA	41:CF:230:SER:HB3	1.88	0.55
42:CG:119:LEU:HG	42:CG:156:ARG:HE	1.70	0.55
42:CK:88:HIS:HB3	42:CK:91:GLN:HB2	1.87	0.55
41:CL:392:LYS:HD3	41:CL:395:LEU:HD22	1.88	0.55
41:DB:331:LEU:HD11	42:DC:176:GLN:HG3	1.87	0.55
41:DH:396:HIS:HB2	41:DH:397:TRP:CE3	2.40	0.55
42:EE:3:GLU:HG3	42:EE:129:CYS:HB2	1.88	0.55
42:EI:336:LYS:HE2	42:EI:351:PHE:HD2	1.71	0.55
42:EK:301:GLN:HG3	42:EK:307:PRO:HG3	1.88	0.55
41:EL:323:MET:SD	42:EM:224:TYR:HD1	2.29	0.55
42:FC:172:TYR:HB2	42:FC:203:MET:SD	2.46	0.55
41:FD:270:PHE:HB3	41:FD:273:LEU:HD23	1.88	0.55
41:FF:222:TYR:HD1	43:FF:501:GDP:C2	2.24	0.55
42:FG:272:TYR:HB3	42:FG:275:VAL:HG22	1.87	0.55
42:GE:420:GLU:HA	42:GE:423:GLU:HB2	1.88	0.55
42:GG:213:CYS:HA	42:GG:217:LEU:HD12	1.88	0.55
42:GI:69:ASP:OD1	42:GI:71:GLU:N	2.39	0.55
41:HB:149:THR:HA	41:HB:152:ILE:HG22	1.86	0.55
41:IH:239:CYS:HB3	41:IH:247:ASN:HB2	1.88	0.55
42:JK:75:ILE:HD11	42:JK:94:THR:HB	1.88	0.55
42:KC:217:LEU:HD11	42:KC:275:VAL:HG22	1.88	0.55
42:KM:317:LEU:HD12	42:KM:332:ILE:HD11	1.88	0.55
42:NC:104:ALA:HA	42:NC:108:TYR:HD1	1.72	0.55
42:OC:88:HIS:HB3	42:OC:91:GLN:HB3	1.88	0.55
41:PH:297:LYS:H	41:PH:297:LYS:HZ2	1.53	0.55
42:PI:406:HIS:CD2	42:PI:406:HIS:H	2.22	0.55
41:PJ:236:VAL:HA	41:PJ:316:VAL:HG21	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:PK:19:ALA:HB1	42:PK:229:ARG:HG2	1.88	0.55
41:QB:271:ALA:HB1	41:QB:289:LEU:HG	1.88	0.55
41:QD:398:TYR:HB3	41:QD:408:PHE:HZ	1.71	0.55
41:QF:350:LYS:HD2	41:QF:351:THR:H	1.70	0.55
42:QG:256:GLN:HB3	41:QH:397:TRP:CH2	2.41	0.55
41:QH:15:GLN:HB3	41:QH:226:ASN:HD21	1.71	0.55
42:RC:200:CYS:HA	42:RC:266:HIS:HB3	1.87	0.55
42:RE:363:VAL:HG13	42:RE:366:GLY:HA3	1.88	0.55
41:RF:140:GLY:HA2	41:RF:171:PRO:HG3	1.88	0.55
42:RG:244:PHE:O	42:RG:356:ASN:ND2	2.38	0.55
41:RH:252:LYS:HG2	41:RH:350:LYS:HE2	1.88	0.55
42:SC:323:VAL:HG13	42:SC:355:ILE:HG23	1.88	0.55
42:SG:208:ALA:HB2	42:SG:304:LYS:HG2	1.88	0.55
42:SI:276:ILE:HD11	42:SI:286:LEU:HD21	1.88	0.55
41:SJ:150:LEU:HG	41:SJ:154:LYS:HZ1	1.71	0.55
41:SJ:311:LEU:HD12	41:SJ:342:VAL:HG21	1.87	0.55
42:SM:98:ASP:O	42:SM:105:ARG:NH2	2.39	0.55
41:TD:91:VAL:HG11	41:TD:116:VAL:HA	1.88	0.55
41:TD:193:VAL:HG21	41:TD:418:LEU:HD21	1.88	0.55
42:TG:30:ILE:HG22	42:TG:36:MET:SD	2.46	0.55
42:UI:261:PRO:HB2	42:UI:262:TYR:CD2	2.42	0.55
41:UJ:282:ARG:NH2	41:UJ:292:GLN:OE1	2.33	0.55
42:UM:216:ASN:ND2	42:UM:300:ASN:OD1	2.36	0.55
42:VC:70:LEU:HD13	42:VC:114:LEU:HD12	1.88	0.55
41:VD:330:MET:HE2	41:VD:349:VAL:HG13	1.88	0.55
11:2M:441:ARG:HE	23:4D:37:TYR:HD2	1.54	0.55
20:3N:18:VAL:HG21	41:AB:213:ARG:HG2	1.88	0.55
24:4F:131:ALA:HB2	24:4G:465:PRO:HD3	1.87	0.55
33:5R:11:ARG:HH21	33:5S:130:LYS:HB3	1.71	0.55
35:6S:349:PRO:HB2	35:6S:384:LEU:HD21	1.87	0.55
37:7C:197:ALA:O	41:TH:332:ASN:ND2	2.39	0.55
37:7C:220:ALA:HB1	42:TG:308:ARG:HE	1.71	0.55
37:7D:28:PRO:HB2	42:TE:308:ARG:NE	2.21	0.55
42:BG:5:ILE:HG12	42:BG:132:LEU:HD11	1.89	0.55
41:CB:314:ALA:HB3	41:CB:368:ILE:HB	1.87	0.55
41:CB:347:ASN:ND2	42:CC:178:SER:HB3	2.21	0.55
42:CE:262:TYR:HB2	42:CE:265:ILE:HG12	1.87	0.55
41:CF:5:VAL:HG12	41:CF:130:LEU:HD11	1.89	0.55
41:CF:263:LEU:HD21	41:CF:421:GLU:HG3	1.87	0.55
41:CH:421:GLU:OE1	41:CH:424:GLN:NE2	2.39	0.55
42:CK:62:VAL:HG11	42:DK:283:HIS:CA	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DC:13:GLY:HA2	42:DC:16:ILE:HD12	1.87	0.55
41:DD:107:THR:HG22	41:DD:108:GLU:H	1.71	0.55
42:DG:262:TYR:HB2	42:DG:265:ILE:CG1	2.36	0.55
42:DK:75:ILE:HD11	42:DK:92:LEU:HB2	1.88	0.55
42:EC:254:GLU:O	42:EC:258:ASN:ND2	2.38	0.55
42:EG:224:TYR:O	42:EG:225:THR:C	2.45	0.55
41:EJ:136:THR:HG22	41:EJ:167:PHE:HB2	1.88	0.55
41:EL:322:SER:CB	42:EM:221:ARG:HG2	2.36	0.55
42:FK:173:PRO:HB3	42:FK:207:GLU:HB2	1.88	0.55
42:GI:105:ARG:HG3	42:GI:110:ILE:HG22	1.88	0.55
41:GJ:211:CYS:HB2	41:GJ:217:LEU:HD12	1.87	0.55
42:HE:274:PRO:HG2	42:HE:374:ALA:HA	1.88	0.55
42:HG:100:ALA:O	42:HG:101:ASN:C	2.43	0.55
42:HG:252:LEU:HA	42:HG:255:PHE:CD2	2.41	0.55
42:HI:21:TRP:HA	42:HI:24:TYR:HB2	1.88	0.55
42:HI:401:LYS:O	42:HI:402:ARG:C	2.44	0.55
41:HJ:243:PRO:HB2	42:HK:77:GLU:OE1	2.06	0.55
42:IK:254:GLU:OE1	42:IK:254:GLU:N	2.38	0.55
41:IL:74:ASP:O	41:IL:78:SER:OG	2.21	0.55
41:JD:170:VAL:HG21	41:JD:377:LEU:HD11	1.87	0.55
41:JH:52:ASN:OD1	41:JH:62:ARG:NH2	2.39	0.55
41:KF:170:VAL:HG11	41:KF:377:LEU:HD21	1.88	0.55
41:KH:207:LEU:HB3	41:KH:225:LEU:HD22	1.87	0.55
41:KJ:2:ARG:NH2	42:KK:73:THR:OG1	2.39	0.55
42:KM:323:VAL:HG23	42:KM:355:ILE:HG23	1.87	0.55
41:LF:54:ALA:HB3	41:LF:58:LYS:HB3	1.88	0.55
42:MC:188:ILE:HA	42:MC:191:THR:HG22	1.87	0.55
42:ME:240:ALA:HB1	42:ME:356:ASN:HD22	1.71	0.55
42:MM:71:GLU:HB3	42:MM:98:ASP:HB3	1.87	0.55
41:ND:113:VAL:HB	41:ND:150:LEU:HD21	1.89	0.55
42:NG:209:ILE:HD13	42:NG:231:ILE:HD11	1.89	0.55
41:NH:358:PRO:HB2	41:NH:361:LEU:HD12	1.87	0.55
42:NK:88:HIS:O	42:NK:90:GLU:N	2.39	0.55
42:OA:166:LYS:HE2	42:OA:198:SER:HA	1.89	0.55
42:OK:244:PHE:HB2	42:OK:356:ASN:HD21	1.72	0.55
42:OK:311:LYS:HE3	42:OK:344:VAL:HA	1.88	0.55
41:OL:105:HIS:HA	41:OL:150:LEU:HD22	1.88	0.55
42:PA:218:ASP:O	42:PA:219:ILE:C	2.44	0.55
42:PC:250:VAL:HG22	42:PC:354:GLY:HA3	1.88	0.55
42:PG:154:MET:SD	42:PG:194:THR:HG22	2.45	0.55
42:PI:160:ASP:O	42:PI:161:TYR:C	2.45	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:PI:235:VAL:HG13	42:PI:236:SER:H	1.71	0.55
41:PJ:214:THR:O	41:PJ:215:LEU:C	2.45	0.55
41:PJ:271:ALA:H	41:PJ:272:PRO:HD2	1.70	0.55
41:QH:86:ARG:HB2	41:QH:87:PRO:HD2	1.88	0.55
42:QI:92:LEU:H	42:QI:92:LEU:HD23	1.71	0.55
41:QJ:303:CYS:O	41:QJ:304:ASP:C	2.45	0.55
42:RG:98:ASP:O	42:RG:105:ARG:NH1	2.40	0.55
42:RI:319:TYR:HD2	42:RI:323:VAL:HG21	1.72	0.55
42:SE:49:PHE:HD2	42:SE:53:PHE:HB2	1.71	0.55
42:SI:91:GLN:HG2	42:SI:92:LEU:HD13	1.88	0.55
41:TD:33:THR:O	41:TD:58:LYS:NZ	2.29	0.55
41:TH:324:LYS:O	41:TH:328:GLU:N	2.25	0.55
41:TJ:166:THR:HG23	41:TJ:199:THR:HG23	1.88	0.55
42:UC:121:ARG:HA	42:UC:124:LYS:HD2	1.88	0.55
42:UC:261:PRO:HD2	42:UC:265:ILE:HB	1.87	0.55
42:VC:88:HIS:HB3	42:VC:90:GLU:OE1	2.06	0.55
42:VM:106:GLY:HA3	42:VM:148:GLY:HA3	1.88	0.55
41:WJ:347:ASN:ND2	42:WK:178:SER:OG	2.39	0.55
16:3C:212:LYS:HE3	42:VM:308:ARG:HB3	1.89	0.55
19:3J:245:PHE:HB3	19:3J:344:ILE:HD12	1.88	0.55
19:3K:242:VAL:HG12	19:3K:267:TYR:HA	1.87	0.55
20:3O:655:LEU:HD22	20:3O:659:LEU:HD23	1.86	0.55
21:3V:204:LYS:NZ	39:7L:57:ASP:OD1	2.38	0.55
22:3Y:248:LYS:NZ	41:ED:283:ALA:HB1	2.22	0.55
27:4R:249:PRO:O	42:AI:402:ARG:HB2	2.06	0.55
34:6B:402:GLU:O	34:6B:405:ARG:HB2	2.06	0.55
34:6G:446:GLN:HE22	34:6L:284:PHE:HA	1.69	0.55
42:AE:1:MET:N	42:AE:3:GLU:OE1	2.32	0.55
42:AG:60:LYS:HE3	42:BG:283:HIS:CE1	2.41	0.55
41:BB:270:PHE:O	41:BB:298:ASN:ND2	2.36	0.55
42:BC:139:HIS:ND1	42:BC:140:SER:O	2.39	0.55
42:BE:382:THR:HA	42:BE:432:TYR:HE2	1.70	0.55
41:BF:193:VAL:HG21	41:BF:418:LEU:HD21	1.88	0.55
42:BI:420:GLU:O	42:BI:423:GLU:HG3	2.05	0.55
41:CD:303:CYS:O	41:CD:304:ASP:C	2.44	0.55
41:CJ:251:ARG:O	41:CJ:255:VAL:HG23	2.07	0.55
41:CJ:318:ARG:NH1	41:CJ:318:ARG:HA	2.20	0.55
41:DL:2:ARG:HD2	41:DL:240:LEU:HD22	1.87	0.55
42:EE:435:VAL:O	42:EE:436:GLY:C	2.44	0.55
42:EK:282:TYR:HA	42:EK:285:GLN:HB3	1.89	0.55
42:EK:346:TRP:HZ2	42:EK:435:VAL:HG22	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:FC:265:ILE:HG23	42:FC:432:TYR:CZ	2.42	0.55
41:FD:237:THR:HB	41:FD:240:LEU:HD22	1.87	0.55
41:FL:170:VAL:HG22	41:FL:171:PRO:HD2	1.89	0.55
41:GJ:427:ASP:O	41:GJ:428:ALA:C	2.43	0.55
41:HH:31:ASP:OD2	41:HH:37:HIS:ND1	2.35	0.55
42:IC:166:LYS:HB2	42:IC:199:ASP:H	1.70	0.55
41:JD:156:ARG:NH2	41:JD:197:ASP:OD2	2.34	0.55
41:JD:207:LEU:HD21	41:JD:300:MET:HG2	1.88	0.55
41:JJ:25:SER:OG	41:JJ:51:TYR:OH	2.22	0.55
41:KL:256:ASN:HB2	42:KM:181:VAL:HG22	1.88	0.55
41:KN:379:LYS:HG3	41:KN:419:VAL:HG11	1.88	0.55
41:ML:376:GLU:O	41:ML:380:ARG:N	2.39	0.55
41:NB:246:LEU:HD21	42:NC:179:THR:HG21	1.88	0.55
41:NB:355:ASP:O	41:NB:356:ILE:C	2.45	0.55
41:NH:391:ARG:O	41:NH:392:LYS:C	2.45	0.55
42:OC:180:ALA:HB3	42:OC:183:GLU:HG2	1.87	0.55
41:OD:22:GLU:HA	41:OD:81:PHE:HE2	1.71	0.55
42:OI:79:ARG:NH2	42:OI:94:THR:OG1	2.33	0.55
42:OI:119:LEU:HA	42:OI:122:ILE:HG22	1.88	0.55
42:OK:217:LEU:HB2	42:OK:277:SER:HB3	1.87	0.55
42:QE:16:ILE:HG22	42:QE:228:ASN:HB2	1.89	0.55
41:QF:192:LEU:HD13	41:QF:196:THR:HG21	1.88	0.55
42:QG:172:TYR:CE1	42:QG:203:MET:HB3	2.42	0.55
41:QH:252:LYS:HA	41:QH:255:VAL:HG12	1.89	0.55
42:QK:227:LEU:HD22	45:QK:501:GTP:HN21	1.72	0.55
42:QK:262:TYR:CE1	42:QK:435:VAL:HG23	2.42	0.55
41:RB:170:VAL:HG21	41:RB:377:LEU:HD21	1.88	0.55
41:RD:394:PHE:HB3	41:RD:397:TRP:HZ3	1.71	0.55
41:RF:31:ASP:HB2	41:RF:32:PRO:HD2	1.88	0.55
42:RK:64:ARG:HE	42:RK:128:GLN:HE22	1.52	0.55
42:SC:105:ARG:HB3	42:SC:110:ILE:HD12	1.88	0.55
41:SJ:94:GLN:HG2	41:SJ:95:SER:H	1.70	0.55
41:SJ:238:THR:HG21	41:SJ:318:ARG:HD3	1.87	0.55
41:SL:91:VAL:HG21	41:SL:116:VAL:HA	1.89	0.55
41:TH:325:GLU:HG3	42:TI:221:ARG:HD3	1.88	0.55
42:UE:70:LEU:HD12	42:UE:145:THR:HG22	1.87	0.55
42:UE:319:TYR:HB3	42:UE:323:VAL:HG11	1.89	0.55
41:UF:312:THR:HA	41:UF:348:ASN:HB2	1.89	0.55
42:UI:246:GLY:HA3	42:UI:356:ASN:HA	1.88	0.55
41:VD:2:ARG:NH2	41:VD:240:LEU:O	2.39	0.55
41:VD:313:VAL:HG23	41:VD:348:ASN:HB3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:VF:395:LEU:HD12	41:VF:398:TYR:HB2	1.88	0.55
42:VG:172:TYR:HB2	42:VG:203:MET:HE1	1.88	0.55
41:WF:3:GLU:HA	41:WF:49:VAL:HA	1.88	0.55
16:3C:193:PHE:HE2	41:VL:294:PHE:HB3	1.70	0.55
21:3T:196:ARG:NH2	21:3T:247:LEU:O	2.39	0.55
22:4C:89:VAL:HG23	42:AG:84:ARG:HG3	1.88	0.55
27:4Q:84:ALA:HB3	27:4Q:95:ALA:HB3	1.88	0.55
33:5S:195:THR:O	33:5S:196:SER:C	2.44	0.55
33:5T:238:GLU:HA	33:5T:241:GLU:CG	2.36	0.55
35:6R:47:ARG:NH2	35:6R:55:GLU:OE2	2.39	0.55
35:6S:127:GLU:HA	35:6S:130:LEU:HD12	1.88	0.55
35:6S:189:LEU:HD11	35:6S:285:ILE:HD11	1.87	0.55
41:AB:113:VAL:HG22	41:AB:151:LEU:HB2	1.89	0.55
41:AL:391:ARG:O	41:AL:392:LYS:C	2.45	0.55
42:BE:288:VAL:HA	42:BE:291:ILE:HG22	1.89	0.55
42:BG:129:CYS:SG	42:BG:132:LEU:HB2	2.47	0.55
42:BI:79:ARG:HG3	42:BI:92:LEU:HD12	1.88	0.55
42:CG:9:VAL:HG13	42:CG:68:VAL:HG23	1.88	0.55
41:CJ:238:THR:HG21	41:CJ:318:ARG:HG3	1.87	0.55
42:CM:228:ASN:O	42:CM:232:GLY:N	2.38	0.55
42:DE:259:LEU:HD11	42:DE:316:CYS:HB2	1.89	0.55
41:DH:207:LEU:HG	41:DH:300:MET:HE1	1.88	0.55
41:DH:262:ARG:HB3	41:DH:421:GLU:HG2	1.88	0.55
42:DM:102:ASN:ND2	42:DM:411:GLU:OE2	2.40	0.55
42:DM:317:LEU:HG	42:DM:377:MET:HG2	1.88	0.55
41:ED:12:CYS:SG	41:ED:138:SER:HB3	2.46	0.55
41:ED:130:LEU:O	41:ED:131:GLN:C	2.44	0.55
42:EG:301:GLN:HG3	42:EG:307:PRO:HD3	1.88	0.55
42:FC:104:ALA:HA	42:FC:108:TYR:CD2	2.42	0.55
42:FC:136:LEU:HD13	42:FC:167:LEU:HB2	1.88	0.55
42:FG:320:ARG:HA	42:FG:356:ASN:HB3	1.87	0.55
42:FK:169:PHE:HD2	42:FK:231:ILE:HG12	1.72	0.55
42:FM:21:TRP:CZ2	42:FM:65:ALA:HB3	2.39	0.55
41:GD:404:ASP:HB2	41:GD:406:MET:HG3	1.89	0.55
42:GI:191:THR:HG23	42:GI:425:MET:HE1	1.87	0.55
42:GM:214:ARG:NH1	42:GM:215:ARG:HG2	2.22	0.55
42:GM:315:CYS:SG	42:GM:377:MET:SD	3.04	0.55
41:HB:391:ARG:HD3	42:HM:346:TRP:HB3	1.89	0.55
41:HJ:294:PHE:CE2	41:HJ:313:VAL:HG11	2.41	0.55
42:HK:16:ILE:HD12	42:HK:231:ILE:HG21	1.87	0.55
41:HL:210:ILE:HD13	41:HL:297:LYS:HE2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:IH:172:SER:HB2	41:IH:205:GLU:HG2	1.88	0.55
41:JJ:27:GLU:OE1	41:JJ:241:ARG:NH2	2.39	0.55
42:KG:135:PHE:HB2	42:KG:166:LYS:HB2	1.88	0.55
42:KK:241:SER:HB3	42:KK:356:ASN:HD21	1.72	0.55
42:NG:70:LEU:HD21	42:NG:111:GLY:HA2	1.87	0.55
42:NI:122:ILE:HG21	42:NI:157:LEU:HD11	1.87	0.55
41:OB:346:PRO:HD2	42:OC:398:MET:CE	2.37	0.55
42:OC:329:ASN:HD21	41:OD:174:LYS:HD2	1.70	0.55
42:PA:298:PRO:O	42:PA:300:ASN:N	2.39	0.55
42:PG:252:LEU:HA	42:PG:255:PHE:HD1	1.71	0.55
41:PH:393:ALA:C	41:PH:395:LEU:H	2.08	0.55
42:QG:298:PRO:O	42:QG:301:GLN:N	2.39	0.55
42:QG:422:ARG:HH12	42:QG:426:ALA:HB2	1.71	0.55
42:QI:216:ASN:HB3	42:QI:275:VAL:O	2.06	0.55
41:RD:207:LEU:HD21	41:RD:229:VAL:HG22	1.88	0.55
42:SG:108:TYR:CE2	42:SG:413:MET:HB2	2.42	0.55
41:TL:299:MET:SD	41:TL:310:TYR:OH	2.64	0.55
42:TM:274:PRO:HD3	42:TM:374:ALA:HA	1.87	0.55
42:TM:402:ARG:HE	42:TM:415:GLU:HG3	1.70	0.55
42:UC:260:VAL:CG1	42:UC:266:HIS:HA	2.36	0.55
41:UD:338:SER:OG	41:UD:343:GLU:OE2	2.23	0.55
41:UF:192:LEU:O	41:UF:264:HIS:NE2	2.34	0.55
41:VF:292:GLN:OE1	41:VF:298:ASN:ND2	2.33	0.55
42:VI:10:GLY:HA2	42:VI:145:THR:HG23	1.87	0.55
42:VI:27:GLU:OE1	42:VI:243:ARG:NH2	2.39	0.55
42:WC:16:ILE:HA	42:WC:228:ASN:HB3	1.88	0.55
7:1U:201:GLN:NE2	42:MK:42:ILE:O	2.39	0.55
9:2D:352:PHE:HE2	42:HG:80:THR:HG23	1.72	0.55
19:3K:122:ILE:HG12	19:3K:133:VAL:HG22	1.89	0.55
21:3V:78:LYS:NZ	42:LM:399:TYR:OH	2.39	0.55
22:3X:89:VAL:HG22	42:AC:89:PRO:HB3	1.89	0.55
22:3X:195:SER:O	22:3X:199:LEU:N	2.30	0.55
25:4J:139:ASP:OD2	25:4J:216:ARG:NH2	2.39	0.55
30:5B:369:PHE:HD2	41:LN:276:ARG:HH11	1.54	0.55
31:5D:25:THR:HG22	31:5D:66:ILE:HG12	1.88	0.55
34:6G:111:ASN:OD1	34:6G:114:ARG:NH2	2.39	0.55
34:6G:229:CYS:SG	34:6G:232:ARG:NH1	2.80	0.55
37:7C:127:ARG:HH12	41:TL:304:ASP:HA	1.71	0.55
41:AB:101:TRP:NE1	41:AB:187:LEU:O	2.39	0.55
42:AK:246:GLY:HA2	42:AK:357:TYR:CD1	2.41	0.55
41:BH:173:PRO:O	41:BH:174:LYS:C	2.44	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CC:153:LEU:HD23	42:CC:157:LEU:HB2	1.88	0.55
42:CE:79:ARG:NH2	42:CE:92:LEU:O	2.40	0.55
42:CG:227:LEU:O	42:CG:231:ILE:HG12	2.07	0.55
41:CH:347:ASN:HB3	42:CI:181:VAL:HA	1.89	0.55
41:CL:256:ASN:ND2	41:CL:350:LYS:HD3	2.21	0.55
41:DD:165:ASN:HD22	41:DD:198:GLU:HB3	1.72	0.55
41:DF:68:LEU:HG	41:DF:143:THR:HB	1.88	0.55
42:DG:269:LEU:HD11	42:DG:384:ILE:HB	1.89	0.55
42:DI:79:ARG:HH22	42:DI:94:THR:HG23	1.72	0.55
42:DM:180:ALA:HB3	42:DM:183:GLU:HB2	1.87	0.55
42:EE:108:TYR:OH	42:EE:413:MET:HB3	2.06	0.55
42:EE:141:PHE:O	42:EE:142:GLY:C	2.44	0.55
41:EJ:11:GLN:N	43:EJ:501:GDP:O2B	2.39	0.55
41:EL:276:ARG:O	41:EL:279:GLN:HB3	2.07	0.55
42:FC:70:LEU:HD11	42:FC:145:THR:HB	1.88	0.55
42:FC:259:LEU:HD21	42:FC:316:CYS:HB2	1.88	0.55
42:FI:183:GLU:OE2	45:FI:501:GTP:O3'	2.23	0.55
42:FI:254:GLU:HA	41:FJ:98:GLY:HA2	1.88	0.55
41:FJ:344:TRP:HE1	42:FK:401:LYS:HB2	1.69	0.55
42:FK:346:TRP:HE1	41:FL:393:ALA:HA	1.70	0.55
42:GG:279:GLU:O	42:GG:283:HIS:CE1	2.59	0.55
41:GH:68:LEU:HD13	41:GH:97:ALA:HB2	1.88	0.55
41:GJ:66:VAL:HG21	41:GJ:147:MET:HG2	1.89	0.55
42:HC:252:LEU:HA	42:HC:255:PHE:HD1	1.71	0.55
42:HK:195:LEU:HD13	42:HK:264:ARG:HH21	1.71	0.55
42:IM:7:VAL:HB	42:IM:137:ILE:HG12	1.89	0.55
41:JD:237:THR:HG22	41:JD:250:LEU:HD21	1.87	0.55
41:JF:200:TYR:HB3	41:JF:268:PRO:HG3	1.89	0.55
41:JF:204:ASN:OD1	43:JF:501:GDP:N2	2.40	0.55
42:KE:402:ARG:HG3	42:KE:405:VAL:HG21	1.89	0.55
41:KJ:272:PRO:HG3	41:KJ:289:LEU:HD11	1.89	0.55
41:LD:181:GLU:HG2	41:LD:182:PRO:HD3	1.88	0.55
42:MG:175:PRO:HG2	42:MG:304:LYS:HB2	1.87	0.55
41:ND:221:THR:O	41:ND:222:TYR:C	2.43	0.55
42:OE:32:PRO:HB3	42:OE:83:TYR:HE1	1.72	0.55
41:OJ:310:TYR:HE2	41:OJ:369:GLY:HA3	1.71	0.55
42:OK:8:HIS:HD2	42:OK:67:PHE:HE1	1.54	0.55
41:PD:8:GLN:HE22	41:PD:65:LEU:HD13	1.71	0.55
42:PE:57:GLY:O	42:PE:58:ALA:C	2.45	0.55
42:PG:219:ILE:HD12	42:PG:226:ASN:HD22	1.71	0.55
42:PG:315:CYS:O	42:PG:316:CYS:C	2.44	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:PL:5:VAL:HG12	41:PL:130:LEU:HD11	1.88	0.55
41:QH:256:ASN:ND2	42:QI:182:VAL:HG22	2.22	0.55
41:RB:130:LEU:O	41:RB:162:ARG:NH1	2.38	0.55
41:RB:246:LEU:H	41:RB:353:VAL:HB	1.72	0.55
42:RC:115:ILE:HG12	42:RC:156:ARG:HH11	1.71	0.55
41:RD:390:ARG:HD3	41:RD:391:ARG:HG3	1.88	0.55
41:RD:392:LYS:HA	41:RD:395:LEU:HD23	1.89	0.55
41:RF:178:THR:HB	41:RF:181:GLU:HG2	1.89	0.55
41:RJ:86:ARG:HG3	41:RJ:89:ASN:HB2	1.88	0.55
41:RJ:178:THR:HB	41:RJ:181:GLU:HG3	1.89	0.55
42:RK:286:LEU:HD22	42:RK:371:VAL:HG21	1.89	0.55
42:SE:288:VAL:HG22	42:SE:323:VAL:HG12	1.89	0.55
41:SH:315:ALA:O	41:SH:352:ALA:N	2.37	0.55
41:SJ:310:TYR:N	41:SJ:340:TYR:O	2.39	0.55
41:SL:16:ILE:HA	41:SL:226:ASN:OD1	2.06	0.55
42:TC:372:GLN:OE1	42:TC:373:ARG:NH2	2.38	0.55
41:TJ:179:VAL:HG12	41:TJ:394:PHE:HE2	1.71	0.55
42:UC:211:ASP:HA	42:UC:214:ARG:HD3	1.88	0.55
42:UM:75:ILE:HD11	42:UM:94:THR:HB	1.89	0.55
42:UM:195:LEU:O	42:UM:266:HIS:NE2	2.37	0.55
42:VE:435:VAL:O	41:VF:391:ARG:NH2	2.39	0.55
5:1N:9:GLN:HG3	41:KD:304:ASP:HB3	1.88	0.55
8:2B:72:LYS:NZ	27:4T:78:ARG:O	2.39	0.55
9:2D:567:TYR:CZ	41:IN:276:ARG:CD	2.89	0.55
19:3J:296:ARG:HB3	19:3J:323:TRP:CZ3	2.42	0.55
19:3J:459:SER:HB2	41:FD:276:ARG:HH11	1.72	0.55
20:3N:12:TRP:HA	41:KD:69:GLU:HG3	1.88	0.55
20:3O:645:LYS:HG3	20:3O:660:LEU:HD21	1.87	0.55
21:3S:159:GLU:OE1	21:3S:163:LYS:NZ	2.40	0.55
31:5G:115:ARG:NH2	31:5G:138:VAL:O	2.40	0.55
32:5M:136:LEU:HD21	32:5M:394:ARG:HH22	1.72	0.55
33:5X:245:LEU:O	33:5X:249:GLU:N	2.38	0.55
34:6C:110:SER:HA	34:6D:451:THR:HG23	1.88	0.55
34:6G:72:SER:OG	34:6K:238:ASP:OD1	2.24	0.55
41:AB:14:ASN:HB3	41:AB:76:VAL:HG21	1.88	0.55
41:AB:109:GLY:HA2	41:AB:150:LEU:HD13	1.88	0.55
42:AG:192:HIS:ND1	42:AG:424:ASP:OD1	2.40	0.55
42:AI:137:ILE:HB	42:AI:168:GLU:HG3	1.89	0.55
41:AJ:86:ARG:NH2	41:BJ:281:TYR:O	2.40	0.55
41:BH:174:LYS:HD3	41:BH:205:GLU:HB3	1.88	0.55
42:BK:286:LEU:O	42:BK:373:ARG:NH1	2.35	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CC:15:GLN:C	42:CC:17:GLY:H	2.08	0.55
41:CD:170:VAL:HG21	41:CD:377:LEU:HD21	1.88	0.55
41:CF:107:THR:HG21	41:CF:401:GLU:HG3	1.87	0.55
41:CJ:181:GLU:HB3	41:CJ:182:PRO:HD3	1.88	0.55
41:CJ:346:PRO:HG3	42:CK:394:LYS:HB3	1.88	0.55
41:DB:275:SER:H	41:DB:278:SER:HG	1.54	0.55
41:DH:101:TRP:CE2	41:DH:187:LEU:HB3	2.42	0.55
42:DK:288:VAL:HG22	42:DK:373:ARG:HD3	1.89	0.55
42:DM:274:PRO:HG2	42:DM:374:ALA:HA	1.89	0.55
42:EC:5:ILE:HG12	42:EC:132:LEU:HD11	1.88	0.55
41:ED:170:VAL:HG11	41:ED:377:LEU:HD21	1.87	0.55
41:ED:346:PRO:HG3	42:EE:394:LYS:HG2	1.88	0.55
42:EG:256:GLN:O	42:EG:258:ASN:N	2.40	0.55
42:EG:348:PRO:HD2	41:EH:388:MET:HE3	1.89	0.55
41:EL:375:GLN:HB3	41:EL:422:TYR:CG	2.42	0.55
41:FH:204:ASN:OD1	43:FH:501:GDP:N2	2.39	0.55
41:FJ:239:CYS:SG	41:FJ:248:ALA:N	2.73	0.55
41:GF:222:TYR:O	41:GF:226:ASN:ND2	2.34	0.55
41:GL:255:VAL:HG23	42:GM:407:TRP:HB3	1.88	0.55
41:HB:177:ASP:O	42:HM:352:LYS:HA	2.06	0.55
42:HG:318:LEU:HD12	42:HG:376:CYS:SG	2.47	0.55
41:HJ:259:PRO:HA	42:HK:404:PHE:CE1	2.41	0.55
42:HM:172:TYR:CD1	42:HM:173:PRO:HD2	2.42	0.55
42:IC:7:VAL:HG23	42:IC:66:VAL:HB	1.89	0.55
41:ID:255:VAL:HG23	42:IE:407:TRP:CG	2.42	0.55
41:IN:228:LEU:HA	41:IN:270:PHE:CZ	2.39	0.55
42:JC:192:HIS:NE2	42:JC:420:GLU:O	2.39	0.55
41:JF:237:THR:OG1	41:JF:241:ARG:NH1	2.40	0.55
41:JH:179:VAL:HG13	41:JH:180:VAL:HG23	1.89	0.55
42:JK:256:GLN:HA	42:JK:260:VAL:HG13	1.89	0.55
41:KJ:236:VAL:HG12	41:KJ:368:ILE:HD11	1.87	0.55
41:KL:67:ASP:HA	41:KL:143:THR:HG21	1.89	0.55
41:KN:393:ALA:O	41:KN:395:LEU:N	2.40	0.55
41:LD:283:ALA:HB2	41:MD:54:ALA:HA	1.87	0.55
41:LF:49:VAL:HG11	41:LF:241:ARG:HG2	1.88	0.55
42:LM:244:PHE:HB2	42:LM:356:ASN:HD21	1.72	0.55
42:NG:104:ALA:HA	42:NG:108:TYR:HD1	1.72	0.55
41:OH:256:ASN:HB2	42:OI:181:VAL:HG12	1.89	0.55
41:PD:325:GLU:H	42:PE:221:ARG:NH1	2.03	0.55
41:PJ:181:GLU:O	41:PJ:182:PRO:C	2.45	0.55
41:PJ:338:SER:O	41:PJ:340:TYR:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:PJ:384:GLN:O	41:PJ:385:PHE:C	2.45	0.55
41:PL:104:GLY:HA3	41:PL:147:MET:HG2	1.89	0.55
41:QF:371:SER:HB3	41:QF:373:ALA:H	1.72	0.55
41:QH:258:VAL:HG13	42:QI:407:TRP:CH2	2.40	0.55
41:QJ:313:VAL:HA	41:QJ:369:GLY:HA3	1.89	0.55
41:QJ:328:GLU:HA	41:QJ:331:LEU:HD23	1.88	0.55
41:QL:97:ALA:HB2	41:QL:103:LYS:HB3	1.88	0.55
41:RB:101:TRP:HB3	41:RB:184:ASN:HD22	1.71	0.55
41:RD:200:TYR:HE1	41:RD:368:ILE:HG21	1.71	0.55
42:RI:68:VAL:HG12	42:RI:93:ILE:HB	1.88	0.55
41:RL:330:MET:O	41:RL:334:GLN:NE2	2.40	0.55
42:SE:33:ASP:HA	42:SE:85:GLN:HG3	1.87	0.55
41:SL:293:MET:SD	41:SL:315:ALA:HB1	2.46	0.55
42:TC:277:SER:HB2	42:TC:280:LYS:HG3	1.87	0.55
41:TF:318:ARG:HE	41:TF:358:PRO:HD3	1.71	0.55
42:TI:21:TRP:CH2	42:TI:52:PHE:HB3	2.41	0.55
41:TJ:334:GLN:HG2	41:TJ:341:PHE:CE1	2.38	0.55
41:TL:60:VAL:HG21	41:TL:86:ARG:HH12	1.70	0.55
41:UD:314:ALA:HB3	41:UD:368:ILE:HB	1.87	0.55
42:UK:142:GLY:O	42:UK:186:ASN:ND2	2.36	0.55
42:UK:147:SER:OG	42:UK:190:THR:OG1	2.20	0.55
41:VJ:222:TYR:O	41:VJ:226:ASN:ND2	2.39	0.55
41:VL:107:THR:HG22	41:VL:108:GLU:H	1.72	0.55
42:VM:139:HIS:NE2	42:VM:168:GLU:OE2	2.35	0.55
42:WC:264:ARG:NH1	42:WC:431:ASP:OD1	2.40	0.55
42:WE:273:ALA:HB1	42:WE:291:ILE:HB	1.88	0.55
41:WF:102:ALA:HB1	41:WF:401:GLU:HB2	1.87	0.55
42:WI:10:GLY:HA2	42:WI:145:THR:HG23	1.89	0.55
22:3Y:251:PHE:HZ	42:EE:223:THR:HB	1.71	0.55
24:4F:21:ASN:HA	24:4F:24:LYS:HD2	1.89	0.55
35:6V:421:ASN:O	35:6V:425:ILE:N	2.37	0.55
37:7C:163:ILE:O	41:TJ:306:ARG:NH2	2.40	0.55
41:AF:14:ASN:HB3	41:AF:76:VAL:HG21	1.88	0.55
41:AH:306:ARG:HA	41:AH:340:TYR:CE1	2.42	0.55
42:BI:290:GLU:HG3	42:BI:291:ILE:N	2.21	0.55
41:CB:7:LEU:HD23	41:CB:151:LEU:HD23	1.87	0.55
42:CC:33:ASP:HB3	42:CC:35:GLN:HE22	1.72	0.55
42:DK:327:ASP:O	42:DK:328:VAL:C	2.44	0.55
41:ED:289:LEU:HD21	41:ED:363:MET:HB2	1.89	0.55
42:EI:50:ASN:O	42:EI:64:ARG:NH1	2.39	0.55
42:EI:320:ARG:HB3	42:EI:374:ALA:HB3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:EM:258:ASN:CB	42:EM:352:LYS:HG3	2.36	0.55
41:FD:398:TYR:HB3	41:FD:403:MET:SD	2.46	0.55
41:FF:284:LEU:HD22	41:FF:363:MET:H	1.72	0.55
41:FF:399:THR:HG22	41:FF:404:ASP:HA	1.87	0.55
42:FG:348:PRO:HG2	41:FH:384:GLN:HG2	1.88	0.55
41:FH:172:SER:OG	41:FH:175:VAL:O	2.21	0.55
42:FI:320:ARG:HB2	42:FI:374:ALA:HB3	1.89	0.55
42:FK:261:PRO:HG2	42:FK:265:ILE:HG13	1.88	0.55
41:GH:27:GLU:OE2	41:GH:318:ARG:NH2	2.39	0.55
41:HH:12:CYS:SG	41:HH:13:GLY:N	2.80	0.55
42:HI:89:PRO:HD3	42:II:283:HIS:CD2	2.42	0.55
42:HI:280:LYS:O	42:HI:281:ALA:C	2.44	0.55
42:IC:11:GLN:HG3	42:IC:74:VAL:HG21	1.89	0.55
41:IJ:189:VAL:HG12	41:IJ:192:LEU:HD12	1.89	0.55
41:IN:391:ARG:O	41:IN:392:LYS:C	2.45	0.55
41:JJ:173:PRO:HB3	41:JJ:380:ARG:NE	2.21	0.55
42:JK:93:ILE:HD11	42:JK:121:ARG:HG3	1.89	0.55
42:JM:177:VAL:HB	42:JM:207:GLU:HG2	1.88	0.55
41:KL:61:PRO:HD3	41:KL:84:ILE:HG22	1.87	0.55
41:KL:248:ALA:HA	41:KL:252:LYS:HD3	1.87	0.55
41:LJ:324:LYS:HD2	42:LK:222:PRO:HD2	1.88	0.55
41:LL:49:VAL:HG11	41:LL:241:ARG:HG2	1.87	0.55
41:MD:6:HIS:HD2	41:MD:8:GLN:HG2	1.71	0.55
41:MD:61:PRO:HD3	41:MD:84:ILE:HG12	1.88	0.55
41:MD:316:VAL:HG23	41:MD:366:THR:HB	1.89	0.55
42:MI:147:SER:OG	42:MI:190:THR:OG1	2.24	0.55
42:NI:115:ILE:HG21	42:NI:152:LEU:HD22	1.87	0.55
41:NJ:23:VAL:HG11	41:NJ:230:SER:HB3	1.89	0.55
41:OB:36:TYR:HB2	41:OB:59:TYR:HE1	1.71	0.55
41:OF:4:ILE:HG12	41:OF:50:TYR:CE1	2.42	0.55
42:OI:140:SER:HA	42:OI:171:ILE:H	1.70	0.55
42:OK:185:TYR:HE2	42:OK:404:PHE:HB2	1.70	0.55
42:PA:168:GLU:HG3	42:PA:201:ALA:HA	1.89	0.55
41:PB:192:LEU:HD21	41:PB:199:THR:HG21	1.89	0.55
41:PL:19:LYS:HG2	41:PL:226:ASN:HB3	1.87	0.55
42:QG:66:VAL:HG11	42:QG:121:ARG:HB3	1.89	0.55
42:QG:239:THR:HG22	42:QG:252:LEU:HD21	1.87	0.55
42:QG:259:LEU:HD21	42:QG:316:CYS:HB2	1.89	0.55
41:QH:21:TRP:HZ2	41:QH:63:ALA:HB2	1.72	0.55
42:QK:274:PRO:HD3	42:QK:291:ILE:HG23	1.89	0.55
42:RC:307:PRO:HG3	42:RC:381:THR:HG21	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:RC:425:MET:O	42:RC:429:GLU:N	2.32	0.55
42:RE:68:VAL:HG22	42:RE:93:ILE:HB	1.87	0.55
41:RH:136:THR:HG22	41:RH:167:PHE:HB2	1.89	0.55
41:RH:375:GLN:NE2	41:RH:419:VAL:O	2.32	0.55
41:RJ:91:VAL:HG11	41:RJ:116:VAL:HG22	1.88	0.55
42:SE:102:ASN:HD22	42:SE:105:ARG:H	1.53	0.55
42:SI:280:LYS:HA	42:SI:283:HIS:HD2	1.72	0.55
42:SI:317:LEU:HD13	42:SI:332:ILE:HD11	1.87	0.55
41:SL:107:THR:OG1	41:SL:108:GLU:N	2.39	0.55
42:TE:196:GLU:HG2	42:TE:197:HIS:CD2	2.42	0.55
42:TE:209:ILE:HA	42:TE:212:ILE:HG22	1.88	0.55
41:TF:17:GLY:HA2	41:TF:20:PHE:HB3	1.87	0.55
41:TJ:323:MET:HG2	42:TK:223:THR:HA	1.89	0.55
41:TL:67:ASP:OD2	41:TL:72:THR:OG1	2.21	0.55
41:TL:292:GLN:O	41:TL:298:ASN:ND2	2.39	0.55
41:UD:358:PRO:HB2	41:UD:361:LEU:HD12	1.89	0.55
41:UJ:156:ARG:NH1	41:UJ:195:ASN:O	2.40	0.55
42:VK:62:VAL:HB	42:VK:88:HIS:CE1	2.42	0.55
41:WN:222:TYR:O	41:WN:226:ASN:ND2	2.39	0.55
2:1E:76:ILE:HG12	42:HG:342:GLN:HE21	1.72	0.55
14:2Y:170:PHE:HE2	42:OK:286:LEU:HD12	1.72	0.55
15:3A:80:ARG:O	41:JJ:276:ARG:NH2	2.39	0.55
31:5D:127:SER:HB2	42:PC:279:GLU:CA	2.30	0.55
33:5V:297:ILE:HG13	33:5V:363:LEU:HD22	1.89	0.55
34:6C:160:ILE:HG22	34:6C:258:LEU:HD22	1.89	0.55
34:6F:430:THR:HG23	34:6G:131:LYS:HE2	1.89	0.55
34:6G:340:PHE:CE2	34:6G:480:PHE:HB2	2.42	0.55
35:6T:371:ASP:HA	35:6U:254:PRO:HG3	1.89	0.55
37:7E:160:SER:HB3	41:NJ:125:GLU:HB2	1.87	0.55
37:7F:68:PRO:HG2	42:OC:296:PHE:HB3	1.89	0.55
42:AC:90:GLU:O	42:AC:121:ARG:NH1	2.39	0.55
41:AH:434:GLY:O	41:AH:435:GLU:C	2.45	0.55
41:AL:166:THR:HB	41:AL:196:THR:HG21	1.87	0.55
41:BJ:169:VAL:HA	41:BJ:202:ILE:HB	1.88	0.55
42:CG:19:ALA:HA	42:CG:22:GLU:HG3	1.88	0.55
42:CM:254:GLU:O	42:CM:258:ASN:ND2	2.40	0.55
41:DB:266:PHE:HE1	41:DB:370:ASN:HD22	1.54	0.55
42:DE:320:ARG:HB3	42:DE:374:ALA:HB3	1.88	0.55
41:DF:146:GLY:O	41:DF:149:THR:OG1	2.25	0.55
42:EE:238:ILE:HG22	42:EE:239:THR:HG23	1.89	0.55
42:EE:277:SER:O	42:EE:278:ALA:C	2.45	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:EF:200:TYR:HE1	41:EF:266:PHE:HD2	1.55	0.55
42:FG:219:ILE:HD12	42:FG:222:PRO:HB3	1.87	0.55
42:FI:213:CYS:HA	42:FI:217:LEU:HB3	1.87	0.55
41:FJ:215:LEU:HD11	41:FJ:228:LEU:HD21	1.87	0.55
41:FL:73:MET:HG3	41:FL:74:ASP:N	2.22	0.55
41:GD:108:GLU:O	41:GD:109:GLY:C	2.44	0.55
42:GM:7:VAL:HG13	42:GM:137:ILE:HA	1.88	0.55
42:HE:49:PHE:O	42:HE:53:PHE:N	2.40	0.55
41:HF:26:ASP:O	41:HF:359:ARG:NH1	2.35	0.55
42:HM:56:THR:O	42:HM:56:THR:OG1	2.25	0.55
41:IJ:252:LYS:NZ	45:IK:501:GTP:O3G	2.31	0.55
41:IN:306:ARG:O	41:IN:308:GLY:N	2.39	0.55
41:JJ:3:GLU:HA	41:JJ:49:VAL:HA	1.89	0.55
41:JJ:256:ASN:ND2	41:JJ:350:LYS:HD3	2.19	0.55
41:KJ:63:ALA:O	41:KJ:89:ASN:ND2	2.40	0.55
42:LC:3:GLU:OE2	42:LC:129:CYS:HA	2.07	0.55
42:LE:56:THR:HB	42:LE:60:LYS:HB3	1.89	0.55
42:LM:211:ASP:OD2	42:LM:215:ARG:NH2	2.37	0.55
42:ME:238:ILE:HG23	42:ME:255:PHE:HE2	1.72	0.55
42:MI:140:SER:OG	45:MI:501:GTP:O2A	2.25	0.55
42:MK:263:PRO:HG3	41:ML:396:HIS:CE1	2.42	0.55
42:MK:329:ASN:HD22	41:ML:208:TYR:HE2	1.55	0.55
41:NB:102:ALA:HA	41:NB:106:TYR:HD2	1.72	0.55
41:NB:235:GLY:HA3	41:NB:366:THR:HG21	1.89	0.55
41:NB:271:ALA:HB1	41:NB:289:LEU:HG	1.89	0.55
42:NC:212:ILE:HG13	42:NC:215:ARG:HH21	1.72	0.55
41:ND:91:VAL:HG21	41:ND:116:VAL:HA	1.89	0.55
42:NE:132:LEU:O	42:NE:164:LYS:NZ	2.39	0.55
41:NF:271:ALA:H	41:NF:272:PRO:HD2	1.70	0.55
42:NG:436:GLY:O	42:NG:437:MET:C	2.45	0.55
42:OC:244:PHE:HB2	42:OC:356:ASN:HD21	1.71	0.55
41:OF:25:SER:OG	41:OF:30:ILE:O	2.24	0.55
42:PG:25:CYS:HB2	42:PG:30:ILE:CG2	2.35	0.55
42:PG:287:SER:O	42:PG:288:VAL:C	2.45	0.55
41:PH:276:ARG:HH12	41:PH:279:GLN:HB2	1.71	0.55
41:PJ:316:VAL:HG23	41:PJ:366:THR:HB	1.88	0.55
41:QB:52:ASN:OD1	41:QB:62:ARG:NH1	2.39	0.55
41:QJ:8:GLN:NE2	41:QJ:136:THR:HB	2.21	0.55
41:QL:193:VAL:HG23	41:QL:194:GLU:H	1.72	0.55
42:RC:223:THR:HG23	42:RC:225:THR:H	1.72	0.55
41:RD:393:ALA:O	41:RD:394:PHE:C	2.44	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:SE:184:PRO:HB2	42:SE:394:LYS:HB2	1.89	0.55
42:SK:320:ARG:HE	42:SK:360:PRO:HB3	1.71	0.55
42:TC:241:SER:HB3	42:TC:249:ASN:HB2	1.89	0.55
42:TI:185:TYR:HE2	42:TI:398:MET:HB3	1.72	0.55
41:TJ:287:PRO:O	41:TJ:291:GLN:NE2	2.39	0.55
41:TL:347:ASN:HD22	42:TM:178:SER:HB2	1.72	0.55
41:UF:237:THR:OG1	41:UF:241:ARG:NH1	2.39	0.55
42:UG:49:PHE:O	42:UG:50:ASN:C	2.44	0.55
42:VE:60:LYS:NZ	42:VE:85:GLN:O	2.40	0.55
42:VM:292:THR:HG21	42:VM:331:ALA:HB1	1.89	0.55
41:WF:7:LEU:HD11	41:WF:133:PHE:HB3	1.88	0.55
41:WF:196:THR:HG21	41:WF:199:THR:HG23	1.88	0.55
42:WG:223:THR:HG22	42:WG:224:TYR:H	1.71	0.55
42:WM:133:GLN:HG2	42:WM:252:LEU:HB3	1.89	0.55
19:3K:164:HIS:HE1	19:3K:165:TRP:CE2	2.25	0.55
22:3Y:29:PHE:HE2	41:BD:55:THR:HA	1.72	0.55
27:4O:101:GLU:O	27:4O:141:LYS:NZ	2.40	0.55
31:5D:64:ARG:CD	41:OB:35:THR:HG21	2.37	0.55
31:5H:115:ARG:HE	31:5H:142:ILE:HB	1.71	0.55
33:5S:17:TRP:CE3	33:5S:17:TRP:HA	2.42	0.55
34:6C:264:ALA:HB2	34:6D:410:GLU:HG3	1.89	0.55
35:6U:370:ARG:HA	35:6U:374:GLN:HG3	1.88	0.55
37:7D:69:ARG:O	42:TC:308:ARG:NH1	2.40	0.55
38:7I:218:VAL:HG13	41:IN:336:LYS:HG2	1.89	0.55
41:AJ:137:HIS:ND1	41:AJ:144:GLY:O	2.39	0.55
42:AK:35:GLN:O	42:AK:36:MET:C	2.45	0.55
42:CC:195:LEU:HD11	42:CC:428:LEU:HD13	1.87	0.55
42:CM:244:PHE:HB2	42:CM:356:ASN:HD21	1.71	0.55
42:DG:184:PRO:HG2	42:DG:398:MET:HE3	1.89	0.55
42:DG:204:VAL:HG23	42:DG:302:MET:HG2	1.89	0.55
41:DH:81:PHE:O	41:DH:83:GLN:N	2.39	0.55
41:DJ:1:MET:O	41:DJ:3:GLU:N	2.40	0.55
42:EC:307:PRO:HB2	42:EC:312:TYR:CE1	2.42	0.55
41:EH:31:ASP:OD1	41:EH:32:PRO:HD3	2.06	0.55
42:EK:349:THR:HG21	41:EL:179:VAL:O	2.06	0.55
42:EM:273:ALA:HB3	42:EM:375:VAL:HG12	1.89	0.55
41:FF:49:VAL:HG11	41:FF:241:ARG:HB3	1.89	0.55
41:FH:183:TYR:OH	41:FH:403:MET:SD	2.62	0.55
42:FI:115:ILE:HA	42:FI:118:VAL:HG12	1.89	0.55
41:FL:108:GLU:O	41:FL:109:GLY:C	2.46	0.55
42:HC:195:LEU:HD13	42:HC:266:HIS:HE1	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:HF:33:THR:O	41:HF:58:LYS:NZ	2.40	0.55
42:HI:7:VAL:HG13	42:HI:66:VAL:HB	1.89	0.55
42:HI:138:PHE:HZ	42:HI:235:VAL:HG21	1.70	0.55
42:II:244:PHE:CG	42:II:358:GLN:HG3	2.41	0.55
41:IL:310:TYR:HA	41:IL:371:SER:HA	1.88	0.55
42:KE:75:ILE:HG23	42:KE:92:LEU:HD12	1.88	0.55
41:KH:51:TYR:HB3	41:KH:59:TYR:HB3	1.89	0.55
41:KN:25:SER:HB3	41:KN:30:ILE:HB	1.89	0.55
41:LL:46:ARG:NH2	42:LM:76:ASP:OD2	2.40	0.55
41:MF:263:LEU:HD13	41:MF:422:TYR:CE1	2.42	0.55
41:MH:248:ALA:HA	41:MH:252:LYS:HE2	1.89	0.55
42:OC:109:THR:OG1	42:OC:411:GLU:O	2.24	0.55
42:OC:229:ARG:HH11	42:OC:363:VAL:HG21	1.71	0.55
41:PH:1:MET:HG3	42:PI:72:PRO:HG3	1.88	0.55
41:PJ:15:GLN:O	41:PJ:16:ILE:C	2.43	0.55
41:PL:355:ASP:O	41:PL:356:ILE:C	2.46	0.55
42:QI:27:GLU:HB3	42:QI:361:THR:HG21	1.88	0.55
42:QK:129:CYS:SG	42:QK:132:LEU:HB2	2.47	0.55
42:SC:62:VAL:HG21	42:SC:88:HIS:NE2	2.22	0.55
42:SE:47:ASP:O	42:SE:48:SER:C	2.46	0.55
41:SL:11:GLN:HB3	43:SL:501:GDP:O1A	2.07	0.55
41:SL:391:ARG:O	41:SL:392:LYS:C	2.45	0.55
42:TE:185:TYR:HE2	42:TE:404:PHE:HB2	1.72	0.55
41:UF:372:THR:HA	41:UF:422:TYR:HD2	1.71	0.55
42:UG:298:PRO:HB3	42:UG:307:PRO:HD2	1.88	0.55
41:UJ:375:GLN:O	41:UJ:379:LYS:N	2.39	0.55
42:VC:139:HIS:NE2	42:VC:168:GLU:OE2	2.35	0.55
41:VD:173:PRO:HA	41:VD:380:ARG:NH1	2.21	0.55
41:WL:22:GLU:HG3	41:WL:81:PHE:HB2	1.89	0.55
42:WM:213:CYS:HA	42:WM:217:LEU:HB2	1.87	0.55
20:3N:12:TRP:H	41:KD:71:GLY:N	1.98	0.55
25:4J:98:ILE:HD11	25:4J:159:ILE:HD12	1.87	0.55
33:5R:57:GLU:OE1	33:5S:317:ARG:NH1	2.40	0.55
33:5S:330:CYS:SG	33:5S:331:ARG:N	2.80	0.55
34:6C:139:GLN:HE22	34:6D:395:VAL:HG11	1.72	0.55
35:6T:409:ARG:HA	35:6T:412:LEU:HB2	1.88	0.55
42:AC:215:ARG:HH21	42:AC:299:ALA:HB1	1.71	0.55
42:AI:51:THR:HG21	42:AI:242:LEU:HB2	1.89	0.55
42:BC:205:ASP:OD2	42:BC:206:ASN:N	2.39	0.55
41:CD:193:VAL:HG11	41:CD:414:ASN:HD21	1.72	0.55
41:DB:66:VAL:HG12	41:DB:91:VAL:HB	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DH:325:GLU:HB2	42:DI:221:ARG:HG2	1.87	0.55
41:EL:106:TYR:OH	41:EL:402:GLY:N	2.40	0.55
42:EM:154:MET:HG2	42:EM:193:THR:HG23	1.87	0.55
42:EM:252:LEU:HA	42:EM:255:PHE:CZ	2.41	0.55
42:FE:52:PHE:CE2	42:FE:239:THR:HG21	2.42	0.55
41:FF:171:PRO:O	41:FF:380:ARG:NH2	2.37	0.55
42:FI:230:LEU:HD11	42:FI:275:VAL:HG23	1.88	0.55
41:FJ:323:MET:HA	41:FJ:326:VAL:HG12	1.89	0.55
42:FK:262:TYR:HB3	42:FK:263:PRO:HD2	1.90	0.55
41:FL:46:ARG:O	41:FL:49:VAL:HG12	2.06	0.55
42:HC:323:VAL:HG13	42:HC:355:ILE:HG23	1.88	0.55
42:IC:269:LEU:HD22	42:IC:303:VAL:HG11	1.89	0.55
42:IE:408:TYR:HB3	42:IE:413:MET:HE2	1.88	0.55
41:IF:193:VAL:HA	41:IF:264:HIS:HE1	1.72	0.55
41:IL:251:ARG:HH22	42:IM:105:ARG:HE	1.53	0.55
41:JF:33:THR:O	41:JF:58:LYS:NZ	2.39	0.55
41:KD:18:ALA:HB2	41:KD:76:VAL:HG22	1.88	0.55
41:KF:61:PRO:HG3	41:KF:84:ILE:HD12	1.89	0.55
42:KK:215:ARG:NH2	42:KK:299:ALA:O	2.40	0.55
41:KN:235:GLY:HA3	41:KN:366:THR:HG21	1.88	0.55
41:MJ:136:THR:HG22	41:MJ:167:PHE:HB2	1.89	0.55
42:MK:9:VAL:HG13	42:MK:139:HIS:HB3	1.88	0.55
41:MN:337:ASN:HB3	41:MN:340:TYR:HB3	1.88	0.55
42:NE:36:MET:CG	42:NE:61:HIS:HE2	2.20	0.55
42:NI:305:CYS:O	42:NI:306:ASP:C	2.45	0.55
42:NI:401:LYS:O	42:NI:402:ARG:C	2.45	0.55
42:OE:265:ILE:HA	42:OE:432:TYR:HE1	1.72	0.55
41:OF:134:GLN:HE22	41:OF:136:THR:HG23	1.71	0.55
42:PA:66:VAL:HG23	42:PA:68:VAL:HG23	1.88	0.55
42:PG:206:ASN:OD1	45:PG:501:GTP:N2	2.39	0.55
41:PH:26:ASP:O	41:PH:29:GLY:N	2.30	0.55
41:PH:319:GLY:HA2	41:PH:357:PRO:HD3	1.88	0.55
41:PJ:324:LYS:HE2	41:PJ:328:GLU:HB2	1.89	0.55
42:QG:69:ASP:HB3	42:QG:75:ILE:HD11	1.89	0.55
42:QG:105:ARG:HG2	42:QG:110:ILE:HD13	1.89	0.55
41:QJ:68:LEU:HB3	41:QJ:96:GLY:HA2	1.88	0.55
41:QJ:273:LEU:HD23	41:QJ:298:ASN:HD21	1.71	0.55
42:QK:52:PHE:HA	42:QK:64:ARG:HH21	1.72	0.55
42:RC:272:TYR:HD2	42:RC:275:VAL:HG23	1.72	0.55
41:RD:213:ARG:HB3	41:RD:297:LYS:HE2	1.88	0.55
42:RG:11:GLN:NE2	45:RG:501:GTP:O2A	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:SE:271:THR:HA	42:SE:302:MET:HG3	1.89	0.55
41:SH:107:THR:OG1	41:SH:108:GLU:OE1	2.25	0.55
42:TC:413:MET:HE3	42:TC:417:GLU:HB2	1.89	0.55
42:TG:63:PRO:HD2	42:TG:87:PHE:HB3	1.89	0.55
42:TG:382:THR:HB	42:TG:432:TYR:HE1	1.73	0.55
41:UJ:324:LYS:NZ	41:UJ:328:GLU:OE1	2.35	0.55
41:VF:261:PRO:O	41:VF:262:ARG:HG3	2.06	0.55
42:VG:36:MET:HG2	42:VG:37:PRO:HD2	1.87	0.55
42:VI:262:TYR:OH	41:VJ:391:ARG:O	2.23	0.55
42:VM:90:GLU:HG3	42:VM:121:ARG:HD3	1.89	0.55
42:VM:188:ILE:O	42:VM:191:THR:HG22	2.06	0.55
41:WD:296:ALA:HB2	41:WD:306:ARG:HH22	1.72	0.55
41:WF:97:ALA:O	41:WF:98:GLY:C	2.45	0.55
42:WI:247:ALA:O	42:WI:248:LEU:C	2.46	0.55
41:WJ:10:GLY:O	41:WJ:14:ASN:ND2	2.40	0.55
19:3K:321:LEU:HD12	19:3K:322:GLU:HB2	1.89	0.54
20:3N:216:LEU:HB2	20:3N:239:TYR:HB3	1.89	0.54
21:3V:86:ARG:NH2	42:LM:196:GLU:O	2.40	0.54
32:5N:36:ARG:NH2	33:5R:48:GLU:OE2	2.40	0.54
35:6R:353:ALA:HB2	35:6R:380:GLU:HG2	1.89	0.54
41:AL:358:PRO:HB2	41:AL:361:LEU:HD12	1.88	0.54
42:BG:97:GLU:OE2	42:BG:105:ARG:NH1	2.38	0.54
41:BJ:211:CYS:HA	41:BJ:215:LEU:HB2	1.87	0.54
42:CE:102:ASN:HB3	42:CE:105:ARG:HB2	1.89	0.54
42:CE:286:LEU:O	42:CE:373:ARG:NH1	2.38	0.54
41:CF:18:ALA:HB2	41:CF:76:VAL:HG12	1.89	0.54
41:CJ:285:THR:O	41:CJ:286:VAL:C	2.45	0.54
41:DD:309:ARG:HG3	41:DD:426:GLN:HG2	1.89	0.54
42:DE:399:TYR:O	42:DE:402:ARG:NH2	2.39	0.54
42:DI:171:ILE:HG21	45:DI:501:GTP:H1'	1.88	0.54
41:DJ:102:ALA:O	41:DJ:103:LYS:C	2.44	0.54
42:EE:70:LEU:HD23	42:EE:95:GLY:HA3	1.90	0.54
41:EF:324:LYS:HE2	42:EG:222:PRO:CG	2.37	0.54
41:EF:324:LYS:CD	42:EG:222:PRO:HD2	2.36	0.54
41:EH:292:GLN:NE2	41:EH:298:ASN:OD1	2.40	0.54
42:EM:259:LEU:HD21	42:EM:378:LEU:HB2	1.89	0.54
42:FC:148:GLY:O	42:FC:149:PHE:C	2.45	0.54
42:FM:172:TYR:OH	42:FM:387:ALA:O	2.24	0.54
41:GJ:334:GLN:HA	41:GJ:341:PHE:CE2	2.42	0.54
42:HC:56:THR:HA	42:IC:285:GLN:CB	2.21	0.54
41:HJ:271:ALA:HB1	41:HJ:289:LEU:HB3	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:IG:121:ARG:HA	42:IG:124:LYS:NZ	2.18	0.54
41:IH:15:GLN:NE2	43:IH:501:GDP:O6	2.40	0.54
42:IK:243:ARG:HB2	42:IK:244:PHE:CD2	2.42	0.54
42:JE:120:ASP:OD2	42:JE:124:LYS:NZ	2.40	0.54
42:JE:242:LEU:HD11	42:JE:252:LEU:HG	1.88	0.54
41:KD:331:LEU:HD11	42:KE:176:GLN:HG2	1.88	0.54
41:KF:7:LEU:HG	41:KF:135:LEU:HD13	1.88	0.54
41:KF:207:LEU:HD13	41:KF:225:LEU:HB3	1.88	0.54
42:KI:217:LEU:HD21	42:KI:368:LEU:HD23	1.89	0.54
41:KN:267:MET:HE1	41:KN:305:PRO:HG3	1.89	0.54
42:MK:195:LEU:HG	42:MK:264:ARG:HB2	1.89	0.54
41:ML:253:LEU:HD23	41:ML:368:ILE:HD11	1.90	0.54
41:NF:101:TRP:CZ3	41:NF:188:SER:HA	2.42	0.54
42:OG:276:ILE:HD11	42:OG:280:LYS:HB2	1.89	0.54
41:OL:310:TYR:N	41:OL:340:TYR:O	2.40	0.54
42:PA:207:GLU:HB2	42:PA:304:LYS:HE2	1.89	0.54
42:PE:234:ILE:HD11	42:PE:302:MET:SD	2.47	0.54
42:PK:36:MET:O	42:PK:37:PRO:C	2.46	0.54
41:QB:247:ASN:HB2	42:QC:11:GLN:HE22	1.72	0.54
41:QD:165:ASN:HD21	41:QD:250:LEU:HB3	1.72	0.54
42:QI:27:GLU:HB2	42:QI:244:PHE:CZ	2.42	0.54
41:RD:27:GLU:HA	41:RD:359:ARG:HG3	1.89	0.54
41:RH:11:GLN:HE22	41:RH:69:GLU:HB2	1.72	0.54
41:RH:237:THR:HG23	41:RH:240:LEU:HD13	1.88	0.54
42:RI:317:LEU:HB3	42:RI:319:TYR:HE1	1.72	0.54
41:RJ:31:ASP:HB3	41:RJ:34:GLY:H	1.72	0.54
42:SC:203:MET:HG3	42:SC:267:PHE:HD1	1.71	0.54
42:SC:319:TYR:HD2	42:SC:323:VAL:HG21	1.72	0.54
42:SE:105:ARG:HG3	42:SE:109:THR:OG1	2.07	0.54
42:SE:323:VAL:HG23	42:SE:355:ILE:HG23	1.90	0.54
41:SH:263:LEU:O	41:SH:370:ASN:ND2	2.40	0.54
42:SI:67:PHE:HB2	42:SI:92:LEU:HD12	1.88	0.54
41:SL:130:LEU:HD12	41:SL:162:ARG:HG3	1.88	0.54
41:TD:19:LYS:NZ	41:TD:223:GLY:O	2.40	0.54
41:UD:49:VAL:HG21	41:UD:241:ARG:HG2	1.89	0.54
41:UJ:177:ASP:OD1	41:UJ:177:ASP:N	2.38	0.54
41:UJ:263:LEU:O	41:UJ:370:ASN:ND2	2.39	0.54
42:VE:79:ARG:NH2	42:VE:92:LEU:O	2.33	0.54
41:VF:178:THR:HB	41:VF:181:GLU:HB2	1.89	0.54
42:VG:229:ARG:HD3	42:VG:363:VAL:HG21	1.88	0.54
42:VI:107:HIS:HD2	42:VI:152:LEU:HB2	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:VJ:236:VAL:HG22	41:VJ:368:ILE:HD11	1.90	0.54
42:VK:54:SER:HB3	42:VK:64:ARG:HD3	1.88	0.54
41:WL:46:ARG:NH2	42:WM:76:ASP:OD2	2.38	0.54
42:WM:332:ILE:HD11	42:WM:353:VAL:HG21	1.89	0.54
27:4P:157:LEU:HD23	27:4P:165:ILE:HG12	1.90	0.54
31:5G:54:MET:HG3	31:5G:55:GLU:HG3	1.88	0.54
33:5S:7:LYS:O	33:5S:9:SER:N	2.41	0.54
33:5V:258:ARG:HD2	33:5V:394:ARG:HH21	1.72	0.54
33:5W:128:VAL:HG12	33:5X:11:ARG:HD2	1.90	0.54
34:6H:202:ARG:O	34:6H:205:ARG:NE	2.38	0.54
34:6K:121:ARG:NH1	34:6L:371:GLU:OE1	2.40	0.54
34:6M:275:ARG:NH2	35:6W:206:GLU:OE1	2.38	0.54
41:DD:49:VAL:O	41:DD:62:ARG:NH2	2.39	0.54
42:DE:112:LYS:HA	42:DE:115:ILE:HG22	1.89	0.54
41:DH:254:ALA:O	41:DH:255:VAL:C	2.45	0.54
41:DJ:55:THR:HA	41:EJ:284:LEU:CA	2.33	0.54
42:EE:164:LYS:O	42:EE:165:SER:C	2.45	0.54
42:EG:264:ARG:O	42:EG:265:ILE:C	2.44	0.54
42:EK:340:THR:O	42:EK:342:GLN:N	2.41	0.54
42:FE:292:THR:HG21	42:FE:331:ALA:HB1	1.89	0.54
41:FL:67:ASP:HB3	41:FL:92:PHE:CE2	2.42	0.54
41:GJ:61:PRO:HG3	41:GJ:84:ILE:HG23	1.89	0.54
41:GJ:246:LEU:HD11	45:GK:501:GTP:H5''	1.87	0.54
41:HB:393:ALA:HA	42:HM:262:TYR:CE1	2.41	0.54
42:HC:94:THR:OG1	42:HC:95:GLY:N	2.39	0.54
42:HI:111:GLY:HA3	42:HI:149:PHE:CE1	2.42	0.54
41:HL:139:LEU:HD12	41:HL:170:VAL:HG12	1.90	0.54
42:HM:49:PHE:O	42:HM:50:ASN:C	2.46	0.54
42:IC:53:PHE:O	42:IC:64:ARG:NH2	2.40	0.54
42:IC:143:GLY:O	42:IC:147:SER:N	2.39	0.54
41:IN:392:LYS:HA	41:IN:395:LEU:HD13	1.89	0.54
42:JE:196:GLU:HG2	42:JE:197:HIS:CE1	2.42	0.54
42:JE:339:ARG:NH2	42:JE:342:GLN:OE1	2.40	0.54
41:LH:313:VAL:HB	41:LH:349:VAL:HG22	1.90	0.54
41:LL:178:THR:HB	41:LL:181:GLU:HG3	1.89	0.54
41:MJ:46:ARG:HH21	42:MK:73:THR:HA	1.72	0.54
41:ML:270:PHE:O	41:ML:298:ASN:ND2	2.36	0.54
42:MM:144:GLY:HA2	42:MM:147:SER:HB3	1.89	0.54
42:NK:277:SER:HB2	42:NK:280:LYS:HE2	1.88	0.54
41:OB:334:GLN:HA	41:OB:341:PHE:CD2	2.43	0.54
41:OH:193:VAL:HA	41:OH:264:HIS:HE1	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:OI:290:GLU:HA	42:OI:293:ASN:HB3	1.89	0.54
42:PE:195:LEU:HD12	42:PE:264:ARG:HE	1.71	0.54
42:PG:150:THR:O	42:PG:153:LEU:N	2.41	0.54
41:PJ:26:ASP:O	41:PJ:27:GLU:C	2.43	0.54
41:PJ:113:VAL:HA	41:PJ:116:VAL:HG12	1.89	0.54
41:PJ:296:ALA:O	41:PJ:298:ASN:N	2.40	0.54
41:PL:44:LEU:O	41:PL:45:GLU:C	2.45	0.54
42:QC:79:ARG:NH2	42:QC:92:LEU:O	2.39	0.54
42:QK:99:ALA:HA	42:QK:105:ARG:HG2	1.88	0.54
41:SF:89:ASN:HA	41:SF:119:VAL:HG11	1.89	0.54
41:SH:130:LEU:O	41:SH:162:ARG:NH1	2.40	0.54
42:SI:306:ASP:HB3	42:SI:309:HIS:CE1	2.42	0.54
42:SK:67:PHE:HB2	42:SK:92:LEU:HD22	1.89	0.54
42:TC:63:PRO:HG2	42:TC:87:PHE:CZ	2.42	0.54
41:TF:3:GLU:HB2	41:TF:130:LEU:HA	1.89	0.54
41:TL:117:LEU:HA	41:TL:120:VAL:HG22	1.88	0.54
41:UL:354:CYS:SG	41:UL:355:ASP:N	2.80	0.54
42:VC:49:PHE:HB2	42:VC:53:PHE:HB2	1.89	0.54
41:VJ:68:LEU:H	41:VJ:143:THR:HG21	1.70	0.54
42:VK:261:PRO:HB2	42:VK:262:TYR:HD2	1.72	0.54
42:WK:258:ASN:ND2	42:WK:352:LYS:HD3	2.23	0.54
41:WL:282:ARG:NH2	41:WL:288:GLU:OE1	2.40	0.54
7:1T:225:ASN:HB2	41:MD:32:PRO:HG2	1.90	0.54
8:1Z:17:ILE:HG23	41:WH:125:GLU:HA	1.90	0.54
19:3J:256:PHE:HB2	41:DD:279:GLN:NE2	2.22	0.54
20:3O:423:PHE:CD2	20:3O:510:ASN:HB2	2.42	0.54
20:3P:253:PRO:HG2	20:3P:257:GLY:HA3	1.89	0.54
22:3Y:102:ILE:HG13	22:3Y:110:VAL:HG23	1.89	0.54
31:5E:115:ARG:NH1	31:5E:121:ASP:HB3	2.22	0.54
34:6M:257:ASP:OD2	34:6M:307:ASN:ND2	2.40	0.54
37:7F:50:ALA:HB2	41:OD:332:ASN:HB3	1.90	0.54
38:7I:237:PRO:HD3	42:IM:338:LYS:HE2	1.88	0.54
42:AE:56:THR:HA	42:BE:285:GLN:HB3	1.89	0.54
42:AI:150:THR:O	42:AI:154:MET:HG2	2.08	0.54
41:AL:44:LEU:HD12	41:AL:47:ILE:HD13	1.90	0.54
42:BG:140:SER:OG	45:BG:501:GTP:O2A	2.24	0.54
41:CD:66:VAL:HG21	41:CD:116:VAL:HB	1.90	0.54
42:CE:312:TYR:HE2	42:CE:341:ILE:HG23	1.72	0.54
41:DD:30:ILE:HD11	41:DD:47:ILE:HD11	1.89	0.54
41:DD:103:LYS:HA	41:DD:107:THR:HB	1.90	0.54
41:DD:257:MET:SD	41:DD:312:THR:HG23	2.46	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DG:169:PHE:HZ	42:DG:238:ILE:HG13	1.72	0.54
42:DG:202:PHE:HD2	42:DG:268:PRO:HG2	1.73	0.54
41:DH:116:VAL:HG21	41:DH:151:LEU:HD11	1.89	0.54
42:DI:332:ILE:HA	42:DI:335:ILE:HG12	1.90	0.54
42:DM:3:GLU:HA	42:DM:51:THR:HA	1.90	0.54
42:DM:322:ASP:OD2	42:DM:373:ARG:NH2	2.40	0.54
41:ED:104:GLY:HA3	41:ED:147:MET:N	2.22	0.54
41:EL:183:TYR:HD2	41:EL:398:TYR:HE2	1.56	0.54
41:FF:11:GLN:N	43:FF:501:GDP:O2B	2.41	0.54
41:FJ:68:LEU:HB3	41:FJ:143:THR:HG21	1.90	0.54
42:FM:295:CYS:HB3	42:FM:377:MET:HB2	1.89	0.54
42:FM:320:ARG:HB3	42:FM:374:ALA:HB3	1.89	0.54
41:GD:97:ALA:O	41:GD:98:GLY:C	2.44	0.54
42:GG:69:ASP:OD2	42:GG:70:LEU:N	2.40	0.54
42:GI:134:GLY:HA3	42:GI:165:SER:HB2	1.89	0.54
42:GK:180:ALA:HB3	42:GK:183:GLU:HB2	1.89	0.54
42:HC:210:TYR:CE1	42:HC:227:LEU:HD11	2.42	0.54
41:HD:135:LEU:HD13	41:HD:152:ILE:HG13	1.90	0.54
41:HF:143:THR:O	41:HF:147:MET:N	2.39	0.54
41:HF:375:GLN:NE2	41:HF:423:GLN:OE1	2.35	0.54
42:HG:99:ALA:O	42:HG:102:ASN:ND2	2.40	0.54
41:HL:319:GLY:HA2	41:HL:357:PRO:HG3	1.89	0.54
42:HM:184:PRO:HA	42:HM:391:LEU:HD11	1.88	0.54
42:II:79:ARG:NH2	42:II:94:THR:OG1	2.40	0.54
42:IK:214:ARG:NH1	42:IK:220:GLU:OE2	2.40	0.54
42:IK:247:ALA:HB1	41:IL:222:TYR:HD1	1.72	0.54
41:JH:314:ALA:HA	41:JH:350:LYS:HG3	1.88	0.54
42:JK:36:MET:O	42:JK:38:SER:N	2.41	0.54
42:KM:167:LEU:HB3	42:KM:202:PHE:HE2	1.72	0.54
42:MC:50:ASN:OD1	42:MC:64:ARG:NH1	2.39	0.54
41:MD:240:LEU:HD21	41:MD:249:ASP:HB2	1.90	0.54
41:ML:255:VAL:HG23	42:MM:407:TRP:CG	2.42	0.54
42:MM:119:LEU:HD23	42:MM:122:ILE:HD11	1.88	0.54
41:ND:211:CYS:HA	41:ND:215:LEU:HB2	1.88	0.54
41:NJ:260:PHE:HE1	42:NK:403:ALA:HA	1.72	0.54
41:OB:149:THR:HG22	41:OB:191:GLN:HB2	1.89	0.54
42:PC:417:GLU:HA	42:PC:420:GLU:HB3	1.89	0.54
42:PE:381:THR:HG23	42:PE:383:ALA:H	1.71	0.54
41:PH:130:LEU:HG	41:PH:162:ARG:HD2	1.90	0.54
41:PH:257:MET:O	41:PH:258:VAL:C	2.46	0.54
41:PJ:155:ILE:C	41:PJ:157:GLU:H	2.09	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:PJ:325:GLU:O	41:PJ:326:VAL:C	2.44	0.54
42:PK:157:LEU:HD22	42:PK:166:LYS:HE3	1.90	0.54
41:PL:58:LYS:O	41:PL:60:VAL:N	2.41	0.54
41:PL:402:GLY:O	41:PL:403:MET:C	2.45	0.54
41:QL:266:PHE:HD1	41:QL:370:ASN:HB3	1.73	0.54
41:RB:64:VAL:HA	41:RB:89:ASN:OD1	2.08	0.54
42:RE:226:ASN:ND2	42:RE:367:ASP:OD2	2.40	0.54
42:RE:422:ARG:HD3	42:RE:423:GLU:N	2.21	0.54
42:SE:56:THR:HA	42:TE:285:GLN:HG3	1.89	0.54
42:SE:317:LEU:HB3	42:SE:319:TYR:CE2	2.39	0.54
42:SK:214:ARG:HH12	42:SK:220:GLU:HG2	1.73	0.54
41:TH:198:GLU:HA	41:TH:264:HIS:HB2	1.89	0.54
41:TJ:416:ASN:HA	41:TJ:419:VAL:HG22	1.89	0.54
42:TK:34:GLY:O	42:TK:60:LYS:HA	2.07	0.54
41:TL:106:TYR:HD1	41:TL:402:GLY:HA3	1.72	0.54
41:TL:259:PRO:HB2	41:TL:260:PHE:HD1	1.72	0.54
42:TM:169:PHE:HA	42:TM:202:PHE:HB2	1.89	0.54
42:UE:238:ILE:HG23	42:UE:239:THR:HG23	1.89	0.54
42:UG:156:ARG:HA	42:UG:159:VAL:HG12	1.89	0.54
42:UG:244:PHE:CD2	42:UG:358:GLN:HG2	2.42	0.54
42:UK:189:LEU:HD11	42:UK:418:PHE:HE1	1.72	0.54
41:UL:138:SER:HB3	41:UL:144:GLY:HA3	1.90	0.54
41:VH:287:PRO:HG3	41:VH:329:GLN:HE22	1.71	0.54
41:WD:256:ASN:HD21	42:WE:182:VAL:HG22	1.71	0.54
8:2A:149:ILE:HD12	27:4S:75:PHE:HZ	1.71	0.54
20:3N:222:TRP:HB2	20:3N:337:VAL:HG22	1.90	0.54
22:3Z:89:VAL:HG12	42:AI:79:ARG:HB3	1.88	0.54
25:4J:193:ARG:NH2	25:4J:205:ALA:O	2.35	0.54
33:5R:183:LEU:O	33:5R:187:ARG:N	2.37	0.54
33:5R:202:LYS:HD3	33:5S:316:THR:HA	1.90	0.54
42:AC:241:SER:OG	42:AC:250:VAL:O	2.23	0.54
42:AI:99:ALA:O	42:AI:101:ASN:N	2.41	0.54
42:BC:305:CYS:SG	42:BC:306:ASP:N	2.81	0.54
42:BI:273:ALA:HB3	42:BI:375:VAL:H	1.72	0.54
41:BL:375:GLN:O	41:BL:379:LYS:N	2.36	0.54
41:CF:316:VAL:O	41:CF:317:PHE:C	2.45	0.54
42:CG:220:GLU:O	42:CG:221:ARG:C	2.45	0.54
41:CJ:21:TRP:HZ2	41:CJ:63:ALA:HB2	1.72	0.54
41:DD:239:CYS:HB3	41:DD:247:ASN:HB2	1.90	0.54
42:DE:414:GLU:OE1	42:DE:416:GLY:N	2.37	0.54
41:DH:16:ILE:HG21	41:DH:136:THR:HG21	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DH:395:LEU:HD12	41:DH:399:THR:HG23	1.89	0.54
42:DK:70:LEU:HD12	42:DK:99:ALA:HB2	1.90	0.54
42:DK:350:GLY:H	41:DL:179:VAL:HG23	1.72	0.54
41:DL:203:ASP:N	41:DL:300:MET:O	2.40	0.54
41:ED:361:LEU:O	41:ED:362:LYS:C	2.46	0.54
41:EJ:193:VAL:HA	41:EJ:264:HIS:HE1	1.72	0.54
41:FF:310:TYR:HA	41:FF:371:SER:HA	1.89	0.54
42:FK:207:GLU:O	42:FK:210:TYR:HB2	2.07	0.54
41:GF:45:GLU:HG2	41:GF:46:ARG:HG2	1.88	0.54
42:GM:195:LEU:HD22	42:GM:428:LEU:HD23	1.88	0.54
42:HC:56:THR:OG1	42:HC:60:LYS:HB3	2.08	0.54
42:HC:134:GLY:HA3	42:HC:165:SER:HB2	1.90	0.54
42:HC:195:LEU:HA	42:HC:266:HIS:HE1	1.72	0.54
41:HH:73:MET:HE3	41:HH:90:PHE:HD1	1.73	0.54
41:HJ:49:VAL:HG21	41:HJ:241:ARG:HG2	1.89	0.54
42:IC:108:TYR:O	42:IC:112:LYS:NZ	2.29	0.54
42:IE:100:ALA:O	42:IE:101:ASN:C	2.45	0.54
42:JE:30:ILE:HG13	42:JE:53:PHE:CE2	2.41	0.54
41:JF:317:PHE:HB3	41:JF:321:MET:HE1	1.88	0.54
41:KJ:29:GLY:HA3	41:KJ:43:GLN:HE21	1.71	0.54
41:KL:131:GLN:HG2	41:KL:251:ARG:HH22	1.73	0.54
41:LH:316:VAL:HG12	41:LH:352:ALA:HB3	1.89	0.54
42:ME:175:PRO:HG3	42:ME:304:LYS:HB2	1.89	0.54
41:MJ:4:ILE:HG22	41:MJ:131:GLN:HB3	1.88	0.54
41:NF:309:ARG:HH22	41:NF:343:GLU:HG3	1.72	0.54
41:NH:355:ASP:O	41:NH:356:ILE:C	2.46	0.54
42:NI:372:GLN:HE21	42:NI:373:ARG:HH12	1.55	0.54
41:NL:52:ASN:HB2	41:NL:62:ARG:HB2	1.89	0.54
41:OB:56:GLY:O	41:OB:58:LYS:N	2.41	0.54
41:OF:30:ILE:HD11	41:OF:47:ILE:HD11	1.90	0.54
41:OJ:215:LEU:HD11	41:OJ:228:LEU:HD21	1.89	0.54
41:OL:77:ARG:HH22	41:OL:87:PRO:HG3	1.72	0.54
42:PA:115:ILE:HB	42:PA:156:ARG:HH11	1.73	0.54
41:PH:148:GLY:O	41:PH:152:ILE:N	2.39	0.54
41:PL:284:LEU:HD13	41:PL:363:MET:HG2	1.90	0.54
41:PL:309:ARG:HG2	41:PL:342:VAL:HG13	1.90	0.54
41:QH:73:MET:HG2	41:QH:92:PHE:HB3	1.89	0.54
42:QI:209:ILE:HD11	42:QI:230:LEU:HB2	1.88	0.54
41:QL:147:MET:O	41:QL:148:GLY:C	2.46	0.54
41:SD:33:THR:O	41:SD:58:LYS:NZ	2.35	0.54
42:SE:229:ARG:HG2	42:SE:366:GLY:HA3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:SF:70:PRO:HD3	41:SF:94:GLN:HA	1.88	0.54
42:SG:98:ASP:O	42:SG:105:ARG:NH1	2.40	0.54
41:SL:100:ASN:O	41:SL:101:TRP:C	2.45	0.54
42:SM:161:TYR:HB3	42:SM:164:LYS:HG3	1.88	0.54
42:TE:219:ILE:HD11	42:TE:367:ASP:HB3	1.90	0.54
42:TE:395:PHE:CZ	42:TE:418:PHE:HD2	2.25	0.54
42:TI:12:ALA:HA	45:TI:501:GTP:HN22	1.73	0.54
41:TJ:8:GLN:NE2	41:TJ:17:GLY:HA3	2.22	0.54
41:UH:113:VAL:HA	41:UH:116:VAL:HG12	1.88	0.54
42:UI:208:ALA:HB2	42:UI:304:LYS:HG2	1.88	0.54
41:WF:394:PHE:HB3	41:WF:397:TRP:CZ3	2.43	0.54
42:WG:47:ASP:HB2	42:WG:50:ASN:HD21	1.72	0.54
41:WH:377:LEU:HD23	41:WH:380:ARG:NH1	2.23	0.54
9:2D:567:TYR:CE2	41:IN:276:ARG:NH1	2.75	0.54
21:3T:215:GLN:HB3	41:VF:77:ARG:HH21	1.73	0.54
24:4F:102:ARG:NH2	41:HD:33:THR:HB	2.22	0.54
26:4L:211:ASN:HD21	36:6Z:121:GLN:HG3	1.72	0.54
27:4T:191:ARG:HA	27:4T:247:MET:SD	2.47	0.54
32:5L:330:ARG:NH1	32:5M:211:SER:OG	2.40	0.54
32:5M:275:ARG:NH2	32:5M:276:ASP:OD2	2.40	0.54
33:5W:144:ILE:HG12	33:5W:254:LEU:HD21	1.90	0.54
41:AF:67:ASP:OD1	41:AF:68:LEU:N	2.40	0.54
41:AF:273:LEU:O	41:AF:292:GLN:NE2	2.40	0.54
41:AL:318:ARG:HB3	41:AL:358:PRO:HD3	1.90	0.54
41:BB:252:LYS:HG3	42:BC:100:ALA:HA	1.89	0.54
42:CE:47:ASP:HB2	42:CE:50:ASN:ND2	2.22	0.54
41:CL:52:ASN:OD1	41:CL:62:ARG:NH2	2.40	0.54
42:DC:127:ASP:N	42:DC:127:ASP:OD2	2.37	0.54
42:DC:147:SER:OG	42:DC:190:THR:OG1	2.20	0.54
42:DG:388:TRP:CZ3	42:DG:432:TYR:HE2	2.26	0.54
41:EF:121:ARG:NH2	41:EF:158:GLU:OE2	2.40	0.54
42:EK:30:ILE:HG23	42:EK:61:HIS:HD2	1.72	0.54
41:FJ:158:GLU:HG3	41:FJ:159:TYR:CD1	2.43	0.54
41:FJ:248:ALA:HA	41:FJ:252:LYS:HD3	1.89	0.54
42:FK:273:ALA:HB3	42:FK:274:PRO:HD3	1.88	0.54
41:FL:16:ILE:HD13	41:FL:229:VAL:HG21	1.89	0.54
42:GC:8:HIS:HA	42:GC:138:PHE:HB2	1.89	0.54
42:GI:63:PRO:HG3	42:GI:86:LEU:HG	1.89	0.54
42:GI:254:GLU:CA	41:GJ:98:GLY:HA2	2.30	0.54
41:HF:305:PRO:HB2	41:HF:310:TYR:HE1	1.72	0.54
42:HG:56:THR:CG2	42:HG:60:LYS:HB3	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:HG:213:CYS:HA	42:HG:217:LEU:HB2	1.89	0.54
41:HL:86:ARG:NH1	41:IL:281:TYR:O	2.40	0.54
41:HL:260:PHE:HB2	41:HL:263:LEU:HG	1.89	0.54
41:IF:26:ASP:O	41:IF:359:ARG:NH1	2.40	0.54
41:IF:317:PHE:HB2	41:IF:353:VAL:HG12	1.89	0.54
42:IK:244:PHE:HB2	42:IK:356:ASN:HD21	1.70	0.54
42:KE:88:HIS:HB3	42:KE:91:GLN:HB2	1.89	0.54
42:LC:311:LYS:HB3	42:LC:344:VAL:HG22	1.89	0.54
41:MD:183:TYR:HE2	41:MD:388:MET:HB2	1.73	0.54
42:MM:265:ILE:HG23	42:MM:432:TYR:HE1	1.71	0.54
42:MM:311:LYS:H	42:MM:382:THR:HG22	1.73	0.54
42:OA:141:PHE:O	42:OA:147:SER:OG	2.25	0.54
41:OB:25:SER:O	41:OB:26:ASP:C	2.46	0.54
42:OC:91:GLN:HB2	42:OC:121:ARG:NH1	2.22	0.54
41:OF:249:ASP:OD2	42:OG:98:ASP:HB3	2.08	0.54
41:PB:288:GLU:HG3	41:PB:289:LEU:N	2.21	0.54
42:PG:114:LEU:HB3	42:PG:149:PHE:CE1	2.43	0.54
41:PH:251:ARG:O	41:PH:254:ALA:N	2.41	0.54
41:PH:422:TYR:O	41:PH:423:GLN:C	2.46	0.54
41:PJ:174:LYS:O	41:PJ:176:SER:N	2.40	0.54
41:PJ:258:VAL:HG23	42:PK:407:TRP:NE1	2.17	0.54
41:QF:178:THR:HG22	41:QF:180:VAL:H	1.72	0.54
42:QI:259:LEU:HA	42:QI:314:ALA:HB1	1.89	0.54
41:QJ:212:PHE:HB3	41:QJ:213:ARG:CZ	2.37	0.54
41:QL:13:GLY:O	41:QL:17:GLY:N	2.41	0.54
42:RG:182:VAL:HG23	42:RG:186:ASN:HD21	1.71	0.54
42:RI:203:MET:HG3	42:RI:384:ILE:HD11	1.89	0.54
42:RK:204:VAL:HG21	42:RK:231:ILE:HD11	1.89	0.54
41:RL:21:TRP:HA	41:RL:24:ILE:HG22	1.89	0.54
41:SH:406:MET:O	41:SH:409:THR:OG1	2.22	0.54
41:SJ:322:SER:HB3	42:SK:221:ARG:HD2	1.90	0.54
42:SK:2:ARG:NH1	42:SK:242:LEU:O	2.40	0.54
41:SL:193:VAL:HA	41:SL:264:HIS:CE1	2.43	0.54
41:TF:161:ASP:OD1	41:TF:162:ARG:NH1	2.39	0.54
41:TF:375:GLN:O	41:TF:379:LYS:N	2.35	0.54
41:TJ:346:PRO:HD3	42:TK:397:LEU:HD23	1.89	0.54
42:TK:313:MET:HG2	42:TK:346:TRP:HZ2	1.72	0.54
42:TM:166:LYS:H	42:TM:199:ASP:HB2	1.71	0.54
41:UD:323:MET:HG2	41:UD:353:VAL:HG21	1.89	0.54
42:UG:316:CYS:HA	42:UG:352:LYS:HB3	1.89	0.54
41:UJ:260:PHE:HB2	41:UJ:263:LEU:HD23	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:VD:392:LYS:HB3	41:VD:395:LEU:HD12	1.88	0.54
41:WF:331:LEU:HG	41:WF:335:ASN:HD21	1.72	0.54
42:WI:334:THR:HG22	42:WI:338:LYS:HZ1	1.72	0.54
42:WK:183:GLU:OE2	45:WK:501:GTP:O3'	2.25	0.54
41:WL:396:HIS:HA	41:WL:399:THR:HG22	1.89	0.54
2:1F:80:GLN:HE21	42:HM:342:GLN:HA	1.70	0.54
9:2D:567:TYR:CD2	41:IN:276:ARG:CZ	2.87	0.54
20:3O:10:GLN:HE22	42:KG:50:ASN:HD22	1.56	0.54
24:4G:191:LEU:HD21	42:HM:281:ALA:HB3	1.90	0.54
24:4G:307:LEU:CG	42:HI:364:PRO:HB3	2.37	0.54
37:7C:139:PRO:HD2	42:TK:338:LYS:HG2	1.90	0.54
41:AD:309:ARG:NH1	41:AD:339:SER:O	2.39	0.54
42:AG:220:GLU:HG2	42:AG:221:ARG:HG3	1.89	0.54
41:BB:40:SER:HB3	41:BB:43:GLN:HG3	1.90	0.54
41:BB:256:ASN:HD21	42:BC:180:ALA:HB1	1.72	0.54
41:BD:61:PRO:HD2	41:BD:84:ILE:O	2.08	0.54
41:BF:62:ARG:NH1	41:BF:127:CYS:SG	2.80	0.54
42:BI:151:SER:HB2	42:BI:193:THR:HG21	1.89	0.54
42:DC:157:LEU:HD13	42:DC:166:LYS:HD3	1.88	0.54
42:DK:100:ALA:O	42:DK:101:ASN:C	2.45	0.54
42:EE:102:ASN:O	42:EE:103:TYR:C	2.45	0.54
42:EE:257:THR:O	42:EE:259:LEU:N	2.40	0.54
42:FC:313:MET:SD	42:FC:382:THR:HG23	2.47	0.54
41:FF:30:ILE:HD12	41:FF:59:TYR:HD2	1.72	0.54
41:GD:68:LEU:HB2	41:GD:143:THR:HG22	1.90	0.54
42:GI:54:SER:HA	42:GI:64:ARG:HH21	1.73	0.54
41:GJ:331:LEU:HD13	42:GK:177:VAL:HB	1.89	0.54
41:GL:248:ALA:HA	41:GL:252:LYS:HD2	1.88	0.54
42:HG:34:GLY:O	42:HG:35:GLN:C	2.46	0.54
42:HG:173:PRO:HG3	42:HG:187:SER:CB	2.38	0.54
41:HJ:107:THR:O	41:HJ:109:GLY:N	2.41	0.54
42:HK:189:LEU:HA	42:HK:192:HIS:HB3	1.89	0.54
41:IL:193:VAL:HG11	41:IL:418:LEU:HD21	1.90	0.54
41:KD:247:ASN:ND2	42:KE:73:THR:OG1	2.39	0.54
42:KE:7:VAL:HB	42:KE:137:ILE:HG12	1.89	0.54
42:KI:64:ARG:NH1	42:KI:129:CYS:SG	2.81	0.54
42:LI:297:GLU:OE1	42:LI:300:ASN:ND2	2.40	0.54
41:LL:207:LEU:HB3	41:LL:225:LEU:HD22	1.88	0.54
41:MD:5:VAL:HG23	41:MD:130:LEU:HD11	1.89	0.54
42:MI:141:PHE:HB2	42:MI:173:PRO:HD3	1.90	0.54
42:MK:265:ILE:HG13	42:MK:428:LEU:HB2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:NF:378:PHE:HB2	41:NF:419:VAL:HG22	1.90	0.54
41:OH:98:GLY:O	41:OH:99:ASN:C	2.46	0.54
42:PC:391:LEU:HD12	42:PC:394:LYS:HD2	1.89	0.54
42:PE:171:ILE:HA	42:PE:204:VAL:O	2.07	0.54
42:PG:390:ARG:C	42:PG:392:ASP:H	2.11	0.54
42:PI:14:VAL:HG12	42:PI:67:PHE:HB3	1.90	0.54
41:PL:237:THR:O	41:PL:238:THR:C	2.45	0.54
42:QC:137:ILE:HD11	42:QC:168:GLU:HG2	1.89	0.54
41:QD:239:CYS:HB3	41:QD:247:ASN:HB2	1.90	0.54
41:QF:7:LEU:HD11	41:QF:151:LEU:HD12	1.90	0.54
41:QF:312:THR:H	41:QF:370:ASN:HB2	1.72	0.54
42:QG:395:PHE:HD2	42:QG:422:ARG:HD3	1.71	0.54
41:QJ:54:ALA:HA	41:RJ:283:ALA:HB2	1.89	0.54
42:QK:363:VAL:O	42:QK:365:GLY:N	2.40	0.54
42:RG:188:ILE:HG22	42:RG:421:ALA:HB1	1.90	0.54
42:SC:172:TYR:OH	42:SC:387:ALA:O	2.25	0.54
41:SJ:4:ILE:HG12	41:SJ:49:VAL:HG22	1.89	0.54
41:SL:262:ARG:HD3	41:SL:421:GLU:HG2	1.90	0.54
42:TC:69:ASP:HB2	42:TC:75:ILE:HD11	1.89	0.54
41:TL:139:LEU:HD12	41:TL:170:VAL:HG12	1.90	0.54
42:TM:323:VAL:HG13	42:TM:355:ILE:HG23	1.89	0.54
42:UG:1:MET:HG3	42:UG:2:ARG:HG3	1.89	0.54
42:UI:224:TYR:O	42:UI:228:ASN:N	2.41	0.54
41:VH:101:TRP:HZ2	41:VH:191:GLN:HE22	1.54	0.54
42:VK:99:ALA:HB3	42:VK:144:GLY:HA3	1.89	0.54
42:WE:254:GLU:HG2	41:WF:98:GLY:HA2	1.89	0.54
41:WN:393:ALA:O	41:WN:395:LEU:N	2.41	0.54
9:2D:727:THR:HG21	41:IN:360:GLY:HA2	1.89	0.54
20:3N:269:LYS:HE2	20:3N:318:PHE:HD2	1.72	0.54
21:3V:107:ASN:ND2	21:3V:110:ASN:OD1	2.41	0.54
24:4G:188:SER:HA	42:HM:282:TYR:HE1	1.72	0.54
27:4O:96:TRP:NE1	27:4O:133:ASP:OD2	2.41	0.54
30:5A:289:ARG:HA	30:5A:292:VAL:HG12	1.90	0.54
31:5J:128:CYS:HB2	42:PA:279:GLU:HG2	1.89	0.54
33:5S:278:GLU:OE2	33:5S:282:GLN:NE2	2.33	0.54
33:5V:158:ALA:HA	33:5V:239:LEU:HD21	1.89	0.54
34:6L:149:ARG:NH2	34:6M:412:CYS:SG	2.81	0.54
34:6L:177:ILE:HG13	34:6L:180:ARG:HE	1.73	0.54
34:6M:192:LEU:HB2	34:6M:226:ILE:HG21	1.89	0.54
35:6V:136:GLN:OE1	35:6V:136:GLN:N	2.37	0.54
38:7H:161:ARG:HH21	42:IE:340:THR:HG22	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:AB:165:ASN:N	41:AB:165:ASN:HD22	2.03	0.54
42:BE:319:TYR:HB3	42:BE:323:VAL:HG21	1.89	0.54
42:CC:332:ILE:HD11	42:CC:353:VAL:HG11	1.89	0.54
42:CK:93:ILE:HD11	42:CK:121:ARG:HG3	1.90	0.54
42:DE:89:PRO:HG2	42:EE:280:LYS:HB3	1.88	0.54
42:DI:11:GLN:HG2	42:DI:74:VAL:HG11	1.88	0.54
41:DJ:273:LEU:HB2	41:DJ:292:GLN:HE22	1.73	0.54
42:EG:328:VAL:HG11	42:EG:355:ILE:CD1	2.38	0.54
42:EM:277:SER:O	42:EM:278:ALA:C	2.46	0.54
41:FF:207:LEU:HG	41:FF:228:LEU:HD23	1.90	0.54
42:FG:168:GLU:O	42:FG:202:PHE:N	2.37	0.54
42:FG:277:SER:OG	42:FG:279:GLU:OE2	2.26	0.54
41:FH:248:ALA:HA	41:FH:252:LYS:HD3	1.90	0.54
41:FH:394:PHE:HB2	41:FH:398:TYR:CZ	2.43	0.54
42:FI:409:VAL:HG23	42:FI:414:GLU:HA	1.88	0.54
42:FM:172:TYR:OH	42:FM:390:ARG:NH2	2.41	0.54
42:FM:349:THR:HG22	42:FM:351:PHE:H	1.72	0.54
42:GC:16:ILE:O	42:GC:20:CYS:N	2.41	0.54
41:HD:97:ALA:O	41:HD:98:GLY:C	2.45	0.54
41:HH:270:PHE:O	41:HH:298:ASN:ND2	2.39	0.54
41:HJ:358:PRO:HG3	41:HJ:364:SER:HB3	1.89	0.54
42:KC:70:LEU:HD12	42:KC:99:ALA:HB2	1.89	0.54
42:KE:274:PRO:HG3	42:KE:374:ALA:HA	1.90	0.54
41:KJ:395:LEU:HD21	41:KJ:408:PHE:CE2	2.42	0.54
41:LL:334:GLN:HE21	41:LL:349:VAL:HG23	1.73	0.54
41:MH:346:PRO:HD2	42:MI:398:MET:HE2	1.89	0.54
41:NB:101:TRP:HB3	41:NB:398:TYR:HE1	1.73	0.54
41:ND:165:ASN:HB3	41:ND:198:GLU:HG3	1.90	0.54
41:ND:320:ARG:H	41:ND:320:ARG:HH21	1.56	0.54
42:NG:5:ILE:HG12	42:NG:132:LEU:HD11	1.90	0.54
41:NH:16:ILE:HD13	41:NH:229:VAL:HG11	1.88	0.54
41:OB:107:THR:C	41:OB:109:GLY:H	2.10	0.54
42:OC:220:GLU:OE1	42:OC:221:ARG:NH1	2.41	0.54
41:OH:87:PRO:HD3	41:PH:281:TYR:CD1	2.42	0.54
42:OK:274:PRO:HB2	42:OK:371:VAL:HG21	1.89	0.54
41:PD:58:LYS:HE3	41:QD:281:TYR:HE1	1.72	0.54
41:PH:204:ASN:ND2	43:PH:501:GDP:N3	2.45	0.54
41:PH:399:THR:O	41:PH:401:GLU:N	2.40	0.54
41:PJ:100:ASN:O	41:PJ:101:TRP:C	2.45	0.54
41:PJ:265:PHE:HB2	41:PJ:374:ILE:HG21	1.89	0.54
41:QF:14:ASN:ND2	41:QF:67:ASP:OD2	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:QH:324:LYS:HD2	41:QH:324:LYS:H	1.73	0.54
41:QH:333:VAL:HA	41:QH:336:LYS:HE2	1.88	0.54
42:QK:346:TRP:HB3	41:QL:391:ARG:HG3	1.89	0.54
42:RG:307:PRO:HB3	42:RG:381:THR:HG21	1.88	0.54
42:RI:236:SER:O	42:RI:240:ALA:N	2.41	0.54
42:SI:30:ILE:HG23	42:SI:34:GLY:HA2	1.90	0.54
41:SL:215:LEU:HD12	41:SL:276:ARG:HH12	1.71	0.54
42:TC:2:ARG:NH2	41:TD:70:PRO:O	2.40	0.54
42:TC:157:LEU:HG	42:TC:166:LYS:HE3	1.90	0.54
41:TF:376:GLU:OE1	41:TF:380:ARG:NH2	2.40	0.54
42:TG:112:LYS:HA	42:TG:115:ILE:HD12	1.90	0.54
41:UD:346:PRO:HD3	42:UE:397:LEU:HD23	1.90	0.54
41:UH:252:LYS:HG3	42:UI:100:ALA:HA	1.90	0.54
41:UL:238:THR:OG1	41:UL:318:ARG:NH1	2.41	0.54
42:VG:265:ILE:HG21	42:VG:313:MET:HE1	1.89	0.54
41:VH:272:PRO:HG2	41:VH:361:LEU:HD13	1.89	0.54
41:VH:317:PHE:N	41:VH:352:ALA:O	2.41	0.54
41:VJ:105:HIS:HA	41:VJ:150:LEU:HD22	1.90	0.54
42:WE:102:ASN:HB3	42:WE:105:ARG:HG3	1.89	0.54
41:WF:391:ARG:O	41:WF:392:LYS:C	2.46	0.54
41:WL:12:CYS:HB3	41:WL:138:SER:HB2	1.89	0.54
9:2E:805:LYS:NZ	24:4F:91:GLU:OE2	2.41	0.54
33:5X:292:GLU:O	33:5Y:39:ARG:NH1	2.36	0.54
34:6H:181:LEU:HD22	34:6H:237:LEU:HD13	1.88	0.54
34:6J:92:THR:HG23	34:6J:93:ARG:HG3	1.90	0.54
35:6T:307:ARG:NH2	35:6T:310:GLU:OE2	2.40	0.54
35:6U:318:LEU:HD21	35:6U:415:ASP:HB3	1.90	0.54
41:BL:236:VAL:HG12	41:BL:368:ILE:HD11	1.88	0.54
42:CG:173:PRO:HG3	42:CG:391:LEU:HD13	1.90	0.54
41:CJ:130:LEU:HB3	41:CJ:162:ARG:HH11	1.73	0.54
41:DD:345:ILE:HD11	42:DE:181:VAL:HB	1.89	0.54
42:DI:215:ARG:HH11	42:DI:299:ALA:HB1	1.72	0.54
41:DJ:140:GLY:HA2	41:DJ:181:GLU:HG3	1.90	0.54
42:EE:250:VAL:HG11	42:EE:318:LEU:HD22	1.90	0.54
42:EK:339:ARG:O	42:EK:340:THR:C	2.45	0.54
41:EL:172:SER:HB2	41:EL:175:VAL:HG22	1.90	0.54
42:FK:21:TRP:CH2	42:FK:52:PHE:HB2	2.43	0.54
42:FK:169:PHE:C	42:FK:204:VAL:HG12	2.28	0.54
42:FM:415:GLU:HA	42:FM:418:PHE:HD2	1.71	0.54
42:GC:214:ARG:HH22	42:GC:220:GLU:HA	1.72	0.54
42:GE:173:PRO:HB3	42:GE:183:GLU:OE1	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:GJ:302:ALA:HB3	41:GJ:377:LEU:HD11	1.90	0.54
42:GK:88:HIS:HB3	42:GK:91:GLN:HG2	1.90	0.54
41:HF:344:TRP:HA	42:HG:397:LEU:HD22	1.89	0.54
42:HK:264:ARG:NH2	42:HK:424:ASP:OD2	2.40	0.54
41:IL:292:GLN:HA	41:IL:295:ASP:HB2	1.89	0.54
41:IN:204:ASN:O	41:IN:205:GLU:C	2.46	0.54
42:JK:89:PRO:HG3	42:MK:279:GLU:HG3	1.90	0.54
41:KL:67:ASP:OD1	41:KL:68:LEU:N	2.40	0.54
41:ML:52:ASN:ND2	41:ML:123:GLU:OE2	2.37	0.54
42:NA:88:HIS:HD2	42:OA:283:HIS:HB3	1.72	0.54
41:NB:73:MET:HE2	41:NB:92:PHE:HB2	1.89	0.54
42:NG:246:GLY:HA3	42:NG:356:ASN:HA	1.89	0.54
42:OC:253:THR:HG23	41:OD:98:GLY:HA2	1.88	0.54
41:PB:86:ARG:HG2	41:PB:89:ASN:H	1.72	0.54
41:PB:104:GLY:HA3	41:PB:146:GLY:HA3	1.90	0.54
42:PC:6:SER:HA	42:PC:136:LEU:CB	2.37	0.54
42:PC:209:ILE:HG12	42:PC:227:LEU:HG	1.90	0.54
42:PC:385:ALA:HA	42:PC:388:TRP:HD1	1.73	0.54
41:PH:1:MET:SD	41:PH:1:MET:N	2.78	0.54
42:QI:93:ILE:HG21	42:QI:118:VAL:HG12	1.90	0.54
42:QK:271:THR:HA	42:QK:302:MET:HG3	1.90	0.54
41:QL:395:LEU:HD22	41:QL:398:TYR:HD2	1.73	0.54
41:RD:36:TYR:CZ	41:RD:38:GLY:HA3	2.43	0.54
41:RD:308:GLY:HA3	41:RD:373:ALA:HB2	1.90	0.54
42:RE:254:GLU:HA	42:RE:257:THR:HG22	1.89	0.54
41:RF:43:GLN:HA	41:RF:242:PHE:HE1	1.72	0.54
41:RF:135:LEU:HD13	41:RF:152:ILE:HG12	1.90	0.54
41:RJ:42:LEU:HD23	41:RJ:356:ILE:HD11	1.89	0.54
42:RK:27:GLU:OE2	42:RK:243:ARG:NH1	2.41	0.54
42:RK:384:ILE:HG13	42:RK:388:TRP:HZ3	1.72	0.54
41:RL:137:HIS:CE1	41:RL:168:SER:HG	2.25	0.54
42:SK:3:GLU:OE2	42:SK:64:ARG:NH2	2.41	0.54
41:SL:322:SER:H	42:SM:221:ARG:HH22	1.53	0.54
42:TC:209:ILE:HG21	42:TC:227:LEU:HG	1.90	0.54
42:TG:251:ASP:OD2	42:TG:252:LEU:N	2.39	0.54
42:TM:55:GLU:HG3	42:TM:57:GLY:H	1.73	0.54
42:TM:188:ILE:O	42:TM:191:THR:OG1	2.26	0.54
42:TM:311:LYS:N	42:TM:382:THR:OG1	2.41	0.54
42:UI:175:PRO:HB3	42:UI:390:ARG:HD2	1.89	0.54
41:VF:285:THR:HG22	41:VF:287:PRO:HD2	1.90	0.54
41:WL:178:THR:HB	41:WL:181:GLU:HG3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1E:52:ARG:HH12	26:4L:95:ILE:HA	1.71	0.54
2:1E:96:LEU:HG	26:4L:157:LEU:HD22	1.88	0.54
9:2D:565:GLU:OE2	41:IN:276:ARG:NH1	2.41	0.54
16:3D:287:ILE:HG12	42:UE:79:ARG:HG3	1.88	0.54
21:3T:127:ILE:HG22	21:3T:138:ASP:HA	1.90	0.54
25:4I:8:VAL:HG13	25:4I:79:GLY:HA3	1.89	0.54
30:5A:145:ASP:OD2	30:5A:151:ARG:NH2	2.40	0.54
32:5O:383:ILE:O	32:5O:387:GLU:HB3	2.07	0.54
41:AB:258:VAL:O	42:AC:407:TRP:NE1	2.34	0.54
41:AH:98:GLY:O	41:AH:99:ASN:C	2.45	0.54
42:AI:174:ALA:HB3	42:AI:177:VAL:O	2.07	0.54
42:AK:280:LYS:HB2	42:KM:88:HIS:HE1	1.71	0.54
41:BD:316:VAL:HG13	41:BD:352:ALA:HB3	1.90	0.54
41:CB:414:ASN:O	41:CB:418:LEU:N	2.39	0.54
42:CC:63:PRO:HG3	42:CC:87:PHE:HA	1.89	0.54
41:CF:324:LYS:HD3	42:CG:222:PRO:HD2	1.90	0.54
41:CH:139:LEU:HA	41:CH:145:SER:HB2	1.90	0.54
42:DE:106:GLY:HA3	42:DE:148:GLY:HA3	1.89	0.54
41:DJ:131:GLN:HE22	41:DJ:250:LEU:HD12	1.73	0.54
41:DJ:258:VAL:HG23	42:DK:407:TRP:HE1	1.72	0.54
41:DL:65:LEU:O	41:DL:90:PHE:HA	2.08	0.54
41:ED:294:PHE:HZ	41:ED:313:VAL:HG11	1.72	0.54
41:EH:12:CYS:HA	41:EH:15:GLN:HG2	1.89	0.54
42:EK:274:PRO:HG3	42:EK:374:ALA:CB	2.38	0.54
42:FC:162:GLY:O	42:FC:164:LYS:N	2.41	0.54
41:FD:289:LEU:HD13	41:FD:363:MET:HG3	1.88	0.54
42:FE:70:LEU:HD12	42:FE:99:ALA:HB2	1.90	0.54
41:FH:122:LYS:HD3	41:GH:289:LEU:HD22	1.89	0.54
41:FL:210:ILE:HD11	41:FL:298:ASN:HA	1.90	0.54
42:FM:25:CYS:SG	42:FM:86:LEU:HD21	2.47	0.54
42:GC:238:ILE:HG13	42:GC:239:THR:HG23	1.90	0.54
42:GC:317:LEU:HD22	42:GC:319:TYR:HE1	1.72	0.54
42:GE:132:LEU:HB3	42:GE:164:LYS:HZ3	1.73	0.54
41:GF:286:VAL:HG11	41:GF:326:VAL:HG22	1.89	0.54
42:GI:70:LEU:HD23	42:GI:110:ILE:HG23	1.90	0.54
42:GK:211:ASP:HB3	42:GK:215:ARG:HH22	1.73	0.54
42:II:142:GLY:HA3	42:II:183:GLU:HG2	1.89	0.54
42:IK:260:VAL:HG12	42:IK:266:HIS:HA	1.90	0.54
41:IN:239:CYS:O	41:IN:240:LEU:C	2.45	0.54
41:KH:218:THR:HG22	41:KH:219:THR:HG23	1.90	0.54
41:MD:117:LEU:HD11	41:MD:154:LYS:HB3	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:MI:11:GLN:HG3	42:MI:74:VAL:HG21	1.88	0.54
41:ND:261:PRO:O	41:ND:262:ARG:HB2	2.07	0.54
41:NF:296:ALA:HA	41:NF:305:PRO:HG2	1.89	0.54
42:PA:155:GLU:HA	42:PA:197:HIS:CG	2.43	0.54
42:PA:171:ILE:HG21	45:PA:501:GTP:HN22	1.73	0.54
42:PC:129:CYS:SG	42:PC:130:THR:N	2.80	0.54
42:PE:69:ASP:HA	42:PE:145:THR:HG21	1.89	0.54
42:PG:213:CYS:HA	42:PG:217:LEU:HD12	1.90	0.54
41:PH:24:ILE:HG22	41:PH:234:SER:HB2	1.89	0.54
41:PJ:427:ASP:O	41:PJ:428:ALA:C	2.45	0.54
42:QC:147:SER:OG	42:QC:190:THR:OG1	2.23	0.54
41:QF:146:GLY:O	41:QF:149:THR:OG1	2.25	0.54
42:QG:17:GLY:HA3	42:QG:67:PHE:HE1	1.71	0.54
41:QH:246:LEU:HD21	42:QI:179:THR:HG21	1.90	0.54
42:QI:385:ALA:HA	42:QI:388:TRP:HB2	1.88	0.54
41:RD:55:THR:H	41:SD:283:ALA:HA	1.72	0.54
41:RF:275:SER:O	41:RF:279:GLN:N	2.40	0.54
41:SD:241:ARG:HG3	41:SD:242:PHE:HD2	1.73	0.54
41:SH:14:ASN:HD22	41:SH:67:ASP:HB3	1.72	0.54
42:SK:260:VAL:HG12	42:SK:266:HIS:HA	1.90	0.54
41:SL:215:LEU:HB3	41:SL:217:LEU:HG	1.89	0.54
41:TH:104:GLY:HA2	41:TH:109:GLY:HA3	1.90	0.54
41:TH:416:ASN:HA	41:TH:419:VAL:HG12	1.90	0.54
42:TI:204:VAL:HA	42:TI:303:VAL:HG22	1.89	0.54
41:UD:200:TYR:CE1	41:UD:266:PHE:HD2	2.26	0.54
42:UG:204:VAL:HG21	42:UG:231:ILE:HD13	1.90	0.54
41:UH:48:ASN:O	41:UH:62:ARG:NH2	2.41	0.54
42:UI:151:SER:HB2	42:UI:193:THR:HG21	1.90	0.54
41:VF:237:THR:O	41:VF:241:ARG:NH1	2.41	0.54
41:VL:260:PHE:HB2	41:VL:263:LEU:HD13	1.90	0.54
42:WC:235:VAL:O	42:WC:239:THR:HG22	2.08	0.54
41:WL:241:ARG:HH22	41:WL:318:ARG:HH12	1.56	0.54
41:WN:239:CYS:HB3	41:WN:247:ASN:HB3	1.90	0.54
19:3J:428:SER:OG	19:3J:433:ASP:OD1	2.21	0.54
22:3Y:182:THR:OG1	22:3Y:183:GLY:N	2.41	0.54
31:5I:94:THR:HA	31:5I:97:LEU:HB2	1.90	0.54
34:6K:134:GLN:NE2	34:6L:426:GLU:OE2	2.40	0.54
35:6U:134:GLN:NE2	35:6U:282:ILE:HB	2.23	0.54
41:AH:101:TRP:CD1	41:AH:145:SER:HB3	2.40	0.54
41:AH:202:ILE:HG23	41:AH:268:PRO:HG2	1.89	0.54
41:AH:311:LEU:HD21	41:AH:425:TYR:HB3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BD:130:LEU:HB3	41:BD:162:ARG:HD2	1.88	0.54
41:BD:170:VAL:HG21	41:BD:377:LEU:HG	1.90	0.54
42:BE:185:TYR:HE2	42:BE:404:PHE:HB2	1.72	0.54
42:BI:323:VAL:HG23	42:BI:355:ILE:HG23	1.90	0.54
42:BK:2:ARG:NH1	42:BK:242:LEU:O	2.41	0.54
41:BL:316:VAL:HG12	41:BL:352:ALA:HB3	1.89	0.54
41:CB:246:LEU:HB2	42:CC:224:TYR:HE2	1.72	0.54
41:CF:204:ASN:OD1	43:CF:501:GDP:N2	2.40	0.54
41:DH:259:PRO:C	41:DH:261:PRO:HD3	2.29	0.54
42:DI:14:VAL:HG11	42:DI:75:ILE:HG12	1.90	0.54
41:DJ:218:THR:O	41:DJ:220:PRO:HD3	2.08	0.54
41:DL:98:GLY:O	41:DL:100:ASN:N	2.40	0.54
41:DL:395:LEU:O	41:DL:399:THR:N	2.38	0.54
42:EE:100:ALA:O	42:EE:101:ASN:C	2.47	0.54
41:EH:27:GLU:HA	41:EH:359:ARG:HD3	1.89	0.54
42:EM:262:TYR:O	42:EM:264:ARG:N	2.41	0.54
42:FG:192:HIS:HB2	42:FG:424:ASP:HB3	1.90	0.54
41:FH:260:PHE:HD2	41:FH:263:LEU:HD22	1.73	0.54
42:FI:70:LEU:HD11	42:FI:110:ILE:HG21	1.89	0.54
42:GC:16:ILE:HG13	42:GC:228:ASN:HB3	1.90	0.54
41:GF:186:THR:HG23	41:GF:187:LEU:HD12	1.90	0.54
41:GJ:103:LYS:HA	41:GJ:107:THR:OG1	2.07	0.54
42:GK:215:ARG:NH1	42:GK:299:ALA:O	2.40	0.54
42:HE:64:ARG:NH1	42:HE:129:CYS:SG	2.77	0.54
42:HI:173:PRO:HB2	42:HI:391:LEU:HD11	1.90	0.54
41:JH:345:ILE:HD13	42:JI:398:MET:HG3	1.89	0.54
42:ME:139:HIS:ND1	42:ME:146:GLY:O	2.40	0.54
41:NB:209:ASP:HA	41:NB:212:PHE:CE2	2.43	0.54
41:ND:189:VAL:O	41:ND:193:VAL:HG23	2.08	0.54
42:NE:348:PRO:HD2	41:NF:388:MET:HE2	1.90	0.54
41:NH:272:PRO:HG3	41:NH:364:SER:HB2	1.90	0.54
42:OA:336:LYS:HD3	42:OA:351:PHE:HE2	1.72	0.54
42:PC:5:ILE:HD12	42:PC:125:LEU:HD12	1.90	0.54
41:PD:311:LEU:HG	41:PD:342:VAL:HG21	1.90	0.54
41:PD:344:TRP:O	41:PD:345:ILE:C	2.45	0.54
42:PG:276:ILE:HG13	42:PG:280:LYS:HG3	1.89	0.54
42:PK:157:LEU:HG	42:PK:161:TYR:CD2	2.43	0.54
41:QD:99:ASN:O	41:QD:184:ASN:ND2	2.36	0.54
42:QE:265:ILE:HD13	42:QE:435:VAL:HG11	1.89	0.54
41:QF:165:ASN:HD22	41:QF:198:GLU:HB2	1.72	0.54
41:QH:54:ALA:CB	41:RH:283:ALA:HA	2.34	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:QI:210:TYR:HE1	42:QI:224:TYR:HE1	1.55	0.54
42:QI:240:ALA:HA	42:QI:243:ARG:HG2	1.90	0.54
41:RB:274:THR:HG21	41:RB:282:ARG:HD2	1.90	0.54
41:RD:215:LEU:O	41:RD:216:LYS:C	2.46	0.54
41:RD:286:VAL:HG22	41:RD:363:MET:HE1	1.89	0.54
41:RH:73:MET:O	41:RH:77:ARG:N	2.37	0.54
41:RH:178:THR:HG22	41:RH:180:VAL:H	1.71	0.54
41:RH:375:GLN:HE21	41:RH:423:GLN:HG2	1.72	0.54
41:RJ:28:HIS:CG	41:RJ:47:ILE:HG13	2.43	0.54
42:RK:269:LEU:HD21	42:RK:384:ILE:HD13	1.89	0.54
41:RL:215:LEU:HD21	41:RL:273:LEU:HD12	1.88	0.54
42:SG:285:GLN:HE22	42:SG:287:SER:HB3	1.73	0.54
41:SJ:346:PRO:HG3	42:SK:394:LYS:HD2	1.89	0.54
42:TC:28:HIS:CE1	42:TC:243:ARG:HD2	2.43	0.54
42:TC:315:CYS:SG	42:TC:316:CYS:N	2.81	0.54
42:TC:405:VAL:HG13	42:TC:418:PHE:HE2	1.72	0.54
41:TD:295:ASP:O	41:TD:299:MET:HG2	2.08	0.54
41:TF:347:ASN:HD21	42:TG:178:SER:H	1.56	0.54
42:TI:25:CYS:SG	42:TI:26:LEU:N	2.80	0.54
41:TJ:171:PRO:HB3	41:TJ:181:GLU:HG3	1.90	0.54
42:VG:229:ARG:HH11	42:VG:366:GLY:HA2	1.73	0.54
42:WK:335:ILE:HG23	42:WK:341:ILE:HD13	1.90	0.54
42:WM:274:PRO:HG3	42:WM:374:ALA:HA	1.89	0.54
41:WN:284:LEU:HD21	41:WN:362:LYS:HB3	1.90	0.54
9:2D:469:ASN:HD22	38:7H:63:PHE:HB2	1.72	0.53
16:3C:15:LEU:HA	42:VE:214:ARG:HH12	1.72	0.53
16:3C:42:LYS:O	41:VF:306:ARG:NH1	2.35	0.53
16:3C:196:ASN:ND2	41:UL:122:LYS:O	2.39	0.53
20:3Q:513:GLU:HA	20:3Q:516:LEU:HB2	1.88	0.53
22:4B:194:SER:HB3	22:4B:198:VAL:HG23	1.89	0.53
24:4F:22:TYR:HD1	41:NB:276:ARG:CZ	2.22	0.53
26:4L:76:LYS:O	26:4L:80:LEU:N	2.38	0.53
27:4P:40:GLU:OE1	41:AD:306:ARG:NH1	2.40	0.53
30:5A:29:ILE:HD11	42:LM:322:ASP:HA	1.89	0.53
32:5O:268:LEU:HD11	32:5O:387:GLU:HB2	1.90	0.53
33:5X:362:ALA:O	33:5X:366:LEU:N	2.36	0.53
34:6C:361:ILE:HG22	34:6C:459:LEU:HD22	1.90	0.53
41:AD:207:LEU:HB3	41:AD:225:LEU:HG	1.90	0.53
42:AK:414:GLU:HG2	42:AK:416:GLY:H	1.73	0.53
42:BC:1:MET:N	42:BC:50:ASN:OD1	2.41	0.53
42:BC:170:SER:OG	42:BC:203:MET:SD	2.66	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BG:340:THR:HG23	42:BG:341:ILE:HD12	1.90	0.53
41:BH:189:VAL:HA	41:BH:192:LEU:HB2	1.90	0.53
42:BK:213:CYS:HA	42:BK:217:LEU:HB3	1.90	0.53
42:BK:291:ILE:HG12	42:BK:375:VAL:HG12	1.90	0.53
41:CF:21:TRP:HA	41:CF:24:ILE:HG12	1.90	0.53
41:CL:286:VAL:HG11	41:CL:326:VAL:HG12	1.90	0.53
41:DB:101:TRP:HE3	41:DB:146:GLY:HA2	1.72	0.53
41:DJ:57:GLY:C	41:EJ:280:GLN:HG3	2.28	0.53
41:DJ:256:ASN:HD21	42:DK:180:ALA:HA	1.72	0.53
41:EF:204:ASN:ND2	43:EF:501:GDP:N3	2.54	0.53
41:EF:324:LYS:NZ	42:EG:210:TYR:HB3	2.23	0.53
42:FC:72:PRO:O	42:FC:76:ASP:HB2	2.07	0.53
41:FD:221:THR:O	41:FD:222:TYR:C	2.44	0.53
42:FM:259:LEU:HD12	42:FM:260:VAL:HG23	1.89	0.53
41:GF:139:LEU:HB2	41:GF:171:PRO:HD3	1.89	0.53
42:GI:251:ASP:OD2	42:GI:252:LEU:N	2.41	0.53
41:GJ:21:TRP:CZ2	41:GJ:63:ALA:HB2	2.43	0.53
42:GM:75:ILE:HG21	42:GM:94:THR:HB	1.89	0.53
42:GM:313:MET:HE1	42:GM:382:THR:HG23	1.91	0.53
42:HE:195:LEU:HD13	42:HE:266:HIS:HE1	1.72	0.53
42:HG:256:GLN:C	42:HG:258:ASN:H	2.12	0.53
42:HI:257:THR:HG21	41:HJ:100:ASN:HD21	1.73	0.53
41:IF:269:GLY:O	41:IF:367:PHE:N	2.36	0.53
42:II:33:ASP:O	41:JH:281:TYR:OH	2.25	0.53
42:JE:75:ILE:HG22	42:JE:79:ARG:HH12	1.72	0.53
42:JK:328:VAL:HG11	42:JK:353:VAL:HG11	1.89	0.53
41:KD:121:ARG:NH2	41:KD:158:GLU:OE2	2.39	0.53
42:KI:258:ASN:HD21	42:KI:352:LYS:HD2	1.72	0.53
41:MD:267:MET:HG2	41:MD:301:ALA:HB3	1.88	0.53
42:MK:88:HIS:NE2	42:MK:90:GLU:OE1	2.41	0.53
42:MM:328:VAL:HG21	42:MM:355:ILE:HD11	1.90	0.53
41:NB:116:VAL:HG21	41:NB:151:LEU:HD13	1.90	0.53
41:NB:301:ALA:O	41:NB:302:ALA:C	2.47	0.53
42:NC:87:PHE:HB3	42:NC:92:LEU:HD13	1.90	0.53
41:NF:346:PRO:HD3	42:NG:398:MET:HG2	1.89	0.53
41:OF:19:LYS:HA	41:OF:22:GLU:HG2	1.90	0.53
41:OJ:309:ARG:HA	41:OJ:340:TYR:O	2.08	0.53
41:OL:173:PRO:HD2	41:OL:205:GLU:HG2	1.90	0.53
42:PC:135:PHE:H	42:PC:167:LEU:H	1.55	0.53
42:PI:59:GLY:O	42:PI:61:HIS:N	2.41	0.53
42:QC:88:HIS:CE1	42:QC:91:GLN:HB2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:QC:242:LEU:HD21	42:QC:251:ASP:HA	1.90	0.53
42:QC:439:SER:HB3	41:QD:390:ARG:HH21	1.74	0.53
41:QL:155:ILE:HG21	41:QL:164:MET:HE3	1.90	0.53
42:RC:241:SER:HB2	42:RC:249:ASN:HB2	1.89	0.53
42:RG:223:THR:HG23	42:RG:225:THR:H	1.72	0.53
42:RG:320:ARG:O	42:RG:374:ALA:N	2.41	0.53
42:RI:15:GLN:OE1	42:RI:228:ASN:ND2	2.40	0.53
42:SC:21:TRP:HE1	42:SC:65:ALA:HB2	1.73	0.53
42:SC:105:ARG:HG2	42:SC:411:GLU:HG2	1.90	0.53
42:SE:348:PRO:O	42:SE:349:THR:C	2.46	0.53
42:SG:229:ARG:HG3	42:SG:366:GLY:HA2	1.90	0.53
42:TM:25:CYS:HB2	42:TM:30:ILE:HB	1.90	0.53
41:UH:199:THR:HG23	41:UH:265:PHE:HA	1.90	0.53
41:UL:178:THR:HB	41:UL:181:GLU:HG3	1.89	0.53
41:VF:256:ASN:HD22	42:VG:182:VAL:HG22	1.73	0.53
41:VH:273:LEU:O	41:VH:292:GLN:NE2	2.39	0.53
41:WH:211:CYS:HA	41:WH:215:LEU:HD12	1.89	0.53
42:WM:288:VAL:HA	42:WM:291:ILE:HG22	1.88	0.53
19:3K:41:ARG:NH2	42:LG:47:ASP:OD2	2.41	0.53
19:3K:450:SER:HA	19:3K:468:GLY:HA2	1.89	0.53
21:3S:132:ARG:HD2	42:LC:90:GLU:HA	1.89	0.53
27:4P:194:LEU:HA	27:4P:197:LEU:HB2	1.90	0.53
27:4Q:112:PHE:HD2	27:4Q:134:MET:HE1	1.73	0.53
27:4Q:117:CYS:HB3	27:4Q:156:ALA:HA	1.90	0.53
31:5E:16:TYR:HA	31:5E:19:PHE:HD2	1.73	0.53
31:5G:21:GLN:HB3	31:5G:65:ARG:NH1	2.22	0.53
33:5S:324:ARG:NH2	33:5S:330:CYS:O	2.41	0.53
33:5V:392:ASP:OD2	33:5V:395:ARG:NH1	2.42	0.53
34:6A:157:LYS:HG3	34:6A:258:LEU:HD11	1.90	0.53
34:6C:138:THR:HG22	34:6D:423:GLU:HG2	1.89	0.53
34:6G:368:THR:OG1	34:6H:114:ARG:NH2	2.41	0.53
34:6J:120:LEU:HD13	34:6K:444:THR:HG21	1.89	0.53
34:6M:295:SER:OG	34:6N:411:LEU:O	2.23	0.53
35:6U:290:SER:HB2	35:6U:294:ARG:HH12	1.73	0.53
37:7C:186:ARG:CZ	42:SI:116:ASP:HB2	2.38	0.53
37:7E:161:PHE:HE2	41:OJ:290:THR:HB	1.72	0.53
38:7H:46:LYS:HA	42:IK:308:ARG:HG2	1.90	0.53
38:7I:257:MET:HB2	41:IL:337:ASN:HD22	1.73	0.53
41:AB:3:GLU:HB3	41:AB:62:ARG:HH21	1.73	0.53
41:AH:193:VAL:HA	41:AH:264:HIS:CE1	2.43	0.53
42:BK:103:TYR:OH	42:BK:190:THR:OG1	2.26	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:CJ:318:ARG:NE	41:CJ:354:CYS:HB2	2.22	0.53
41:DB:8:GLN:HB3	41:DB:65:LEU:HD23	1.88	0.53
41:DB:334:GLN:HE22	41:DB:348:ASN:H	1.56	0.53
41:DH:257:MET:HA	41:DH:312:THR:CG2	2.35	0.53
41:DJ:34:GLY:C	41:EJ:281:TYR:CE2	2.82	0.53
41:DJ:408:PHE:O	41:DJ:409:THR:C	2.45	0.53
41:ED:411:ALA:O	41:ED:415:MET:HB3	2.07	0.53
42:EE:325:PRO:HB3	41:EF:222:TYR:CZ	2.43	0.53
42:EG:51:THR:HG21	42:EG:243:ARG:HD3	1.90	0.53
41:EH:316:VAL:HA	41:EH:352:ALA:HB3	1.91	0.53
42:EI:241:SER:HB2	42:EI:249:ASN:HB2	1.89	0.53
42:EK:9:VAL:HB	42:EK:68:VAL:HG13	1.91	0.53
42:EK:100:ALA:O	42:EK:102:ASN:N	2.42	0.53
42:EK:416:GLY:O	42:EK:417:GLU:C	2.47	0.53
42:FE:195:LEU:HD23	42:FE:266:HIS:HE1	1.73	0.53
41:FF:45:GLU:HG3	41:FF:46:ARG:HD2	1.90	0.53
41:FF:203:ASP:HB2	41:FF:301:ALA:HA	1.91	0.53
42:FG:112:LYS:HA	42:FG:115:ILE:HG22	1.90	0.53
42:FI:11:GLN:HG3	42:FI:74:VAL:HG21	1.89	0.53
41:FJ:177:ASP:OD1	41:FJ:178:THR:OG1	2.19	0.53
42:GC:310:GLY:O	42:GC:342:GLN:NE2	2.41	0.53
42:GC:320:ARG:HH22	42:GC:360:PRO:HA	1.73	0.53
42:GI:138:PHE:HZ	42:GI:235:VAL:HG21	1.72	0.53
41:GJ:256:ASN:HB2	42:GK:181:VAL:HG12	1.89	0.53
42:GK:79:ARG:NH2	42:GK:92:LEU:O	2.41	0.53
42:HE:186:ASN:OD1	42:HE:408:TYR:OH	2.25	0.53
42:HG:5:ILE:HG12	42:HG:132:LEU:HD13	1.91	0.53
41:HH:221:THR:HG23	41:HH:223:GLY:H	1.73	0.53
42:HK:296:PHE:HB3	42:HK:341:ILE:HD11	1.90	0.53
41:IF:11:GLN:HB2	41:IF:72:THR:HG21	1.90	0.53
41:IF:61:PRO:HD3	41:IF:84:ILE:HG22	1.90	0.53
42:IM:138:PHE:HZ	42:IM:235:VAL:HG11	1.73	0.53
41:KD:93:GLY:HA3	41:KD:112:LEU:HD21	1.90	0.53
41:KD:263:LEU:HG	41:KD:422:TYR:HE1	1.73	0.53
41:KF:313:VAL:HB	41:KF:349:VAL:HG22	1.89	0.53
41:KH:198:GLU:HA	41:KH:264:HIS:HB2	1.90	0.53
41:LD:171:PRO:HB2	41:LD:381:ILE:HD11	1.89	0.53
41:LJ:203:ASP:OD2	41:LJ:302:ALA:N	2.32	0.53
41:MD:100:ASN:HD21	41:MD:397:TRP:HB3	1.73	0.53
42:MI:50:ASN:O	42:MI:64:ARG:NH1	2.41	0.53
41:NJ:317:PHE:HB2	41:NJ:353:VAL:HG22	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:OB:256:ASN:HB2	42:OC:181:VAL:HG12	1.90	0.53
42:OE:274:PRO:HG2	42:OE:374:ALA:HA	1.90	0.53
42:OG:220:GLU:HG3	42:OG:221:ARG:HE	1.73	0.53
41:OH:3:GLU:HG3	41:OH:130:LEU:HA	1.89	0.53
41:PD:58:LYS:HG2	41:QD:280:GLN:O	2.08	0.53
41:PH:244:GLY:HA2	41:PH:355:ASP:CB	2.29	0.53
41:PL:53:GLU:HG2	41:PL:59:TYR:HE1	1.73	0.53
42:QG:71:GLU:HG3	42:QG:98:ASP:HB2	1.91	0.53
41:QH:49:VAL:HG21	41:QH:241:ARG:HG2	1.89	0.53
42:QK:183:GLU:O	42:QK:184:PRO:C	2.47	0.53
41:RB:156:ARG:NH2	41:RB:197:ASP:OD2	2.40	0.53
41:RB:293:MET:SD	41:RB:367:PHE:HB2	2.49	0.53
42:RI:346:TRP:CZ3	41:RJ:388:MET:HA	2.44	0.53
42:RI:363:VAL:HG23	42:RI:366:GLY:H	1.72	0.53
41:SD:4:ILE:HB	41:SD:50:TYR:HE1	1.74	0.53
41:SF:314:ALA:HB3	41:SF:368:ILE:HG22	1.89	0.53
42:SI:300:ASN:O	42:SI:301:GLN:C	2.47	0.53
42:TG:215:ARG:HE	42:TG:299:ALA:HB1	1.73	0.53
41:TH:337:ASN:ND2	41:TH:337:ASN:O	2.41	0.53
41:TJ:91:VAL:HG22	41:TJ:112:LEU:HD11	1.89	0.53
41:TL:73:MET:HA	41:TL:76:VAL:HG12	1.90	0.53
42:UC:336:LYS:HG3	42:UC:351:PHE:HE1	1.73	0.53
41:UF:260:PHE:HB2	41:UF:263:LEU:HD23	1.90	0.53
41:UH:375:GLN:HG2	41:UH:423:GLN:HE22	1.73	0.53
42:UK:7:VAL:HG13	42:UK:66:VAL:HB	1.89	0.53
42:UK:250:VAL:HA	42:UK:254:GLU:HG3	1.90	0.53
42:VI:144:GLY:N	45:VI:501:GTP:O3G	2.41	0.53
42:WE:271:THR:HG22	42:WE:301:GLN:HA	1.89	0.53
42:WG:69:ASP:OD1	42:WG:71:GLU:N	2.40	0.53
41:WL:5:VAL:HG22	41:WL:62:ARG:HD3	1.91	0.53
2:1F:80:GLN:NE2	42:HM:343:PHE:H	2.06	0.53
5:1N:41:ILE:HD11	41:KD:392:LYS:HG3	1.89	0.53
5:1P:55:ARG:NH2	42:KK:434:GLU:OE2	2.41	0.53
13:2S:145:ARG:HH12	41:GH:83:GLN:HG3	1.73	0.53
19:3J:465:LYS:HD2	19:3J:468:GLY:HA2	1.90	0.53
20:3O:419:THR:OG1	20:3O:421:ARG:NH2	2.41	0.53
22:3Y:29:PHE:CE2	41:BD:55:THR:HA	2.44	0.53
22:3Y:102:ILE:HB	22:3Y:105:LYS:HZ1	1.74	0.53
23:4D:31:GLN:HE22	41:UJ:276:ARG:HH12	1.57	0.53
25:4I:72:GLN:OE1	25:4I:279:ARG:NH2	2.36	0.53
33:5T:108:LEU:HB3	33:5T:109:PRO:HD3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:5W:85:LEU:HD11	33:5W:165:LEU:HB3	1.91	0.53
34:6B:209:ASP:OD2	34:6B:465:SER:OG	2.27	0.53
34:6N:403:ARG:O	34:6N:406:ARG:NH1	2.40	0.53
35:6U:190:LEU:HD11	35:6U:289:THR:HG21	1.90	0.53
40:7N:384:GLU:O	41:MH:320:ARG:NH2	2.39	0.53
41:AF:86:ARG:NH1	41:BF:281:TYR:O	2.40	0.53
41:AH:232:THR:HG21	41:AH:268:PRO:CB	2.39	0.53
42:AK:367:ASP:O	42:AK:368:LEU:C	2.46	0.53
41:BL:87:PRO:HD2	41:CL:278:SER:HB2	1.90	0.53
42:CK:326:LYS:HG2	41:CL:220:PRO:HD2	1.90	0.53
42:DE:9:VAL:N	42:DE:138:PHE:O	2.42	0.53
41:DF:229:VAL:HA	41:DF:300:MET:HE1	1.90	0.53
41:DL:21:TRP:CZ2	41:DL:63:ALA:HB2	2.42	0.53
42:EC:101:ASN:ND2	45:EC:501:GTP:O2A	2.41	0.53
41:ED:345:ILE:HG12	42:EE:398:MET:SD	2.49	0.53
41:EF:30:ILE:HG22	41:EF:36:TYR:HA	1.89	0.53
42:EG:7:VAL:HA	42:EG:66:VAL:HG12	1.90	0.53
42:EG:223:THR:O	42:EG:224:TYR:C	2.46	0.53
42:EM:115:ILE:HG12	42:EM:152:LEU:HD13	1.89	0.53
42:EM:190:THR:O	42:EM:191:THR:C	2.46	0.53
42:EM:401:LYS:O	42:EM:402:ARG:C	2.46	0.53
42:FG:141:PHE:HB2	42:FG:173:PRO:HD3	1.89	0.53
41:FH:210:ILE:HG21	41:FH:273:LEU:HD13	1.89	0.53
42:FI:119:LEU:HD21	42:FI:156:ARG:HB3	1.90	0.53
42:FK:288:VAL:O	42:FK:292:THR:HG23	2.09	0.53
41:GD:98:GLY:O	41:GD:99:ASN:C	2.46	0.53
42:GE:206:ASN:OD1	45:GE:501:GTP:O2'	2.27	0.53
41:GL:330:MET:HA	41:GL:333:VAL:HG12	1.89	0.53
42:HC:8:HIS:H	42:HC:8:HIS:CD2	2.26	0.53
41:HD:211:CYS:HA	41:HD:215:LEU:HB2	1.90	0.53
42:HG:6:SER:HB2	42:HG:138:PHE:HE1	1.73	0.53
42:HI:280:LYS:O	42:HI:283:HIS:N	2.39	0.53
42:HI:371:VAL:HG22	42:HI:373:ARG:H	1.73	0.53
41:HJ:260:PHE:CZ	42:HK:403:ALA:HB2	2.44	0.53
42:IC:278:ALA:HA	42:IC:369:ALA:HB2	1.90	0.53
41:IF:54:ALA:HA	42:JE:285:GLN:HB3	1.89	0.53
42:JK:37:PRO:O	42:JK:38:SER:C	2.45	0.53
42:JK:86:LEU:O	42:JK:87:PHE:C	2.47	0.53
41:KH:10:GLY:O	41:KH:14:ASN:ND2	2.39	0.53
42:LC:238:ILE:HG23	42:LC:239:THR:HG23	1.90	0.53
42:LM:5:ILE:HD11	42:LM:125:LEU:HD23	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:MD:345:ILE:HD11	42:ME:403:ALA:HB1	1.90	0.53
42:ME:208:ALA:HB2	42:ME:304:LYS:HG2	1.88	0.53
41:MF:193:VAL:HG21	41:MF:418:LEU:HD22	1.90	0.53
42:MG:80:THR:HA	42:MG:84:ARG:HE	1.73	0.53
42:NG:187:SER:HB2	42:NG:391:LEU:HD21	1.90	0.53
42:NK:82:THR:OG1	42:NK:83:TYR:N	2.42	0.53
41:NL:204:ASN:HA	41:NL:207:LEU:HD12	1.90	0.53
41:OB:262:ARG:HH21	41:OB:418:LEU:HA	1.73	0.53
41:OJ:284:LEU:HG	41:OJ:289:LEU:HD11	1.90	0.53
42:PE:385:ALA:HA	42:PE:388:TRP:CD1	2.43	0.53
41:PH:2:ARG:HE	41:PH:2:ARG:H	1.57	0.53
41:PH:261:PRO:HD2	42:PI:406:HIS:CD2	2.44	0.53
42:QC:306:ASP:OD1	42:QC:308:ARG:NH2	2.41	0.53
41:QF:7:LEU:HD22	41:QF:135:LEU:HD22	1.90	0.53
41:QJ:209:ASP:HA	41:QJ:213:ARG:HH11	1.74	0.53
41:RD:324:LYS:HB2	42:RE:222:PRO:HD2	1.89	0.53
41:RJ:5:VAL:HB	41:RJ:130:LEU:HD21	1.90	0.53
42:SC:143:GLY:O	42:SC:186:ASN:ND2	2.41	0.53
42:SG:288:VAL:HG13	42:SG:319:TYR:CE2	2.43	0.53
41:SJ:139:LEU:HD21	41:SJ:192:LEU:HD22	1.89	0.53
42:SK:105:ARG:HB3	42:SK:110:ILE:HG22	1.91	0.53
42:SM:60:LYS:NZ	42:TM:282:TYR:O	2.40	0.53
42:TI:273:ALA:HB3	42:TI:274:PRO:HD3	1.89	0.53
42:TK:5:ILE:HG13	42:TK:132:LEU:HD11	1.89	0.53
41:UF:193:VAL:HA	41:UF:264:HIS:CE1	2.44	0.53
41:UH:179:VAL:HG12	41:UH:394:PHE:HE2	1.71	0.53
41:UJ:257:MET:HA	41:UJ:312:THR:HG21	1.90	0.53
42:UK:56:THR:HG23	42:UK:60:LYS:HB3	1.90	0.53
42:UM:386:GLU:HG3	42:UM:390:ARG:NH2	2.24	0.53
41:VH:331:LEU:HD22	42:VI:177:VAL:HB	1.89	0.53
41:WD:246:LEU:HD21	42:WE:179:THR:HG21	1.89	0.53
42:WG:191:THR:HA	42:WG:194:THR:HG22	1.90	0.53
42:WI:271:THR:HG23	42:WI:377:MET:HB3	1.88	0.53
41:WN:170:VAL:HG21	41:WN:377:LEU:HD21	1.90	0.53
10:2F:75:ARG:NH1	42:AC:296:PHE:O	2.41	0.53
19:3K:509:ASP:OD1	19:3K:509:ASP:N	2.37	0.53
25:4I:273:GLN:NE2	25:4I:308:CYS:O	2.42	0.53
32:5N:312:VAL:HG23	32:5O:191:LEU:HD22	1.90	0.53
33:5W:416:ASN:HD22	34:6B:171:THR:HG21	1.72	0.53
35:6U:227:ALA:HA	35:6U:230:ARG:HE	1.74	0.53
35:6V:319:GLU:OE1	35:6V:323:ARG:NH2	2.37	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:7C:127:ARG:NH1	41:TL:304:ASP:HA	2.23	0.53
41:BB:10:GLY:HA2	41:BB:143:THR:HG23	1.91	0.53
41:BB:202:ILE:HG12	41:BB:268:PRO:HG2	1.88	0.53
41:BD:358:PRO:O	41:BD:359:ARG:C	2.46	0.53
42:BG:262:TYR:OH	41:BH:391:ARG:O	2.20	0.53
42:CG:394:LYS:HA	42:CG:397:LEU:HD12	1.89	0.53
42:CK:167:LEU:HD13	42:CK:200:CYS:HB3	1.88	0.53
41:DD:173:PRO:O	41:DD:175:VAL:N	2.42	0.53
41:DH:42:LEU:HD13	41:DH:356:ILE:HG13	1.91	0.53
41:EF:255:VAL:HG22	42:EG:407:TRP:CD2	2.44	0.53
41:EJ:18:ALA:HB2	41:EJ:76:VAL:HG23	1.90	0.53
42:EK:174:ALA:H	42:EK:205:ASP:CB	2.21	0.53
42:FC:96:LYS:O	42:FC:97:GLU:C	2.47	0.53
42:FC:298:PRO:HA	42:FC:307:PRO:HG2	1.89	0.53
41:FH:382:SER:HB2	41:FH:415:MET:HG3	1.90	0.53
42:FI:127:ASP:OD1	42:GI:293:ASN:ND2	2.41	0.53
42:FM:240:ALA:O	42:FM:244:PHE:N	2.41	0.53
42:FM:269:LEU:N	42:FM:379:SER:O	2.38	0.53
42:GE:288:VAL:HG13	42:GE:373:ARG:HD3	1.91	0.53
42:GI:320:ARG:HA	42:GI:356:ASN:HB3	1.91	0.53
42:GI:320:ARG:CZ	42:GI:358:GLN:HE22	2.22	0.53
42:HC:326:LYS:HD2	41:HD:220:PRO:HD2	1.91	0.53
41:HD:109:GLY:O	41:HD:110:ALA:C	2.47	0.53
42:HE:167:LEU:HG	42:HE:200:CYS:HB2	1.89	0.53
42:HK:81:GLY:O	42:HK:84:ARG:NH1	2.42	0.53
42:HK:265:ILE:HG12	42:HK:432:TYR:CE1	2.43	0.53
41:HL:27:GLU:O	41:HL:359:ARG:NH2	2.41	0.53
41:IF:169:VAL:HG12	41:IF:202:ILE:HB	1.91	0.53
42:IG:91:GLN:HE22	42:IG:125:LEU:HD21	1.74	0.53
42:JK:62:VAL:HG21	42:MK:283:HIS:O	2.08	0.53
41:KD:330:MET:HA	41:KD:333:VAL:HG12	1.91	0.53
42:KK:93:ILE:HD11	42:KK:121:ARG:HG3	1.91	0.53
41:LF:324:LYS:HB3	42:LG:222:PRO:HD2	1.89	0.53
41:LJ:77:ARG:HA	41:LJ:82:GLY:HA3	1.90	0.53
42:LM:391:LEU:HD12	42:LM:394:LYS:HD3	1.91	0.53
42:MG:402:ARG:HD3	42:MG:405:VAL:HG11	1.89	0.53
41:MH:69:GLU:OE2	41:MH:72:THR:OG1	2.25	0.53
41:NJ:314:ALA:HB3	41:NJ:368:ILE:HB	1.90	0.53
41:NL:215:LEU:HD11	41:NL:228:LEU:HD21	1.91	0.53
42:OA:391:LEU:HA	42:OA:394:LYS:HG2	1.89	0.53
42:OE:274:PRO:HB3	42:OE:286:LEU:HD13	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:OG:261:PRO:HB3	42:OG:346:TRP:CZ2	2.43	0.53
42:PC:101:ASN:O	42:PC:102:ASN:C	2.46	0.53
41:PD:74:ASP:HA	41:PD:77:ARG:HE	1.72	0.53
42:PI:12:ALA:HA	45:PI:501:GTP:C8	2.43	0.53
42:PI:148:GLY:C	42:PI:150:THR:H	2.11	0.53
42:QC:265:ILE:O	42:QC:267:PHE:N	2.42	0.53
42:QI:1:MET:SD	42:QI:2:ARG:NH1	2.81	0.53
41:QJ:152:ILE:HA	41:QJ:164:MET:HE1	1.89	0.53
41:RB:247:ASN:HD21	42:RC:71:GLU:HG3	1.74	0.53
42:RC:155:GLU:HA	42:RC:197:HIS:HE1	1.73	0.53
42:RC:239:THR:HA	42:RC:242:LEU:HD23	1.90	0.53
41:RF:258:VAL:HG22	41:RF:266:PHE:HZ	1.72	0.53
41:RH:106:TYR:HE2	41:RH:403:MET:HG3	1.74	0.53
42:RI:70:LEU:HB3	42:RI:98:ASP:HA	1.91	0.53
41:RJ:163:ILE:HG21	41:RJ:250:LEU:HG	1.89	0.53
41:SD:45:GLU:HG2	41:SD:46:ARG:N	2.23	0.53
42:TC:11:GLN:HG3	42:TC:74:VAL:HG11	1.91	0.53
42:TM:320:ARG:HH21	42:TM:358:GLN:HG3	1.73	0.53
42:TM:344:VAL:HG22	42:TM:346:TRP:H	1.73	0.53
41:UF:264:HIS:HA	41:UF:266:PHE:HE2	1.72	0.53
41:VD:54:ALA:HB3	41:VD:58:LYS:HB3	1.89	0.53
41:VF:180:VAL:O	41:VF:184:ASN:ND2	2.41	0.53
42:VM:168:GLU:OE1	42:VM:198:SER:OG	2.25	0.53
41:WH:268:PRO:HG2	41:WH:300:MET:HB2	1.90	0.53
42:WI:311:LYS:H	42:WI:382:THR:HG22	1.74	0.53
42:WM:230:LEU:HG	42:WM:302:MET:HE1	1.89	0.53
2:1E:42:ARG:HA	26:4L:84:ARG:HH22	1.73	0.53
11:2J:100:LEU:HD21	21:3T:253:ILE:HA	1.90	0.53
11:2L:256:ARG:NH1	42:UE:281:ALA:O	2.41	0.53
16:3C:31:GLN:NE2	42:UE:129:CYS:O	2.40	0.53
16:3D:280:LYS:NZ	41:UD:127:CYS:O	2.40	0.53
22:4A:95:PHE:HE1	41:AJ:59:TYR:HH	1.55	0.53
30:5A:232:ARG:NH1	30:5A:236:GLN:OE1	2.41	0.53
30:5A:236:GLN:HE22	41:MF:56:GLY:H	1.57	0.53
32:5N:268:LEU:HD11	32:5N:272:LYS:HE3	1.91	0.53
33:5T:238:GLU:O	33:5T:241:GLU:HG2	2.07	0.53
34:6A:121:ARG:HG2	34:6B:378:THR:HG21	1.89	0.53
34:6C:280:GLY:O	34:6C:281:VAL:C	2.46	0.53
35:6U:41:LEU:HD23	35:6U:47:ARG:HD3	1.90	0.53
37:7C:193:THR:HA	42:SI:96:LYS:HD3	1.91	0.53
41:AF:181:GLU:HG3	41:AF:182:PRO:HD3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:AG:70:LEU:HD22	42:AG:99:ALA:HB2	1.91	0.53
42:AK:66:VAL:HG12	42:AK:93:ILE:HD11	1.91	0.53
42:BC:11:GLN:NE2	42:BC:15:GLN:OE1	2.41	0.53
42:BE:441:GLU:OE1	41:BF:390:ARG:NH1	2.41	0.53
41:CD:14:ASN:HB3	41:CD:76:VAL:HG11	1.89	0.53
41:CF:265:PHE:CE1	41:CF:418:LEU:HD11	2.44	0.53
41:CH:69:GLU:HG3	41:CH:71:GLY:H	1.74	0.53
41:CJ:399:THR:HA	41:CJ:403:MET:O	2.09	0.53
42:DE:195:LEU:HD21	42:DE:264:ARG:HE	1.73	0.53
41:DF:152:ILE:HG22	41:DF:195:ASN:HB3	1.90	0.53
41:DH:283:ALA:O	41:DH:285:THR:N	2.41	0.53
41:DJ:202:ILE:HD12	41:DJ:229:VAL:HG13	1.90	0.53
41:ED:152:ILE:HG21	41:ED:196:THR:HG22	1.90	0.53
42:EG:103:TYR:HB2	42:EG:186:ASN:HB3	1.91	0.53
42:EK:54:SER:OG	42:EK:55:GLU:N	2.42	0.53
42:EK:292:THR:HG21	42:EK:331:ALA:HB1	1.91	0.53
41:EL:28:HIS:CE1	41:EL:241:ARG:HD2	2.43	0.53
41:FH:261:PRO:O	41:FH:264:HIS:ND1	2.40	0.53
42:FK:412:GLY:O	42:FK:413:MET:C	2.47	0.53
41:HB:213:ARG:HH12	41:HB:297:LYS:HE2	1.74	0.53
42:HC:194:THR:O	42:HC:195:LEU:C	2.47	0.53
41:ID:290:THR:HA	41:ID:293:MET:HE3	1.90	0.53
41:IF:5:VAL:HA	41:IF:62:ARG:HG2	1.89	0.53
42:II:251:ASP:OD1	42:II:252:LEU:N	2.40	0.53
41:IN:286:VAL:HB	41:IN:287:PRO:HD3	1.91	0.53
41:JD:256:ASN:ND2	42:JE:101:ASN:OD1	2.42	0.53
42:JI:353:VAL:HG22	41:JJ:177:ASP:HB2	1.91	0.53
41:KH:5:VAL:HA	41:KH:62:ARG:HG2	1.90	0.53
42:LE:240:ALA:HB1	42:LE:356:ASN:HD22	1.73	0.53
41:LF:135:LEU:HB3	41:LF:166:THR:HG22	1.90	0.53
41:LF:139:LEU:HD22	41:LF:170:VAL:HG12	1.91	0.53
41:LN:226:ASN:OD1	43:LN:501:GDP:N1	2.39	0.53
41:MH:343:GLU:HG2	41:MH:428:ALA:HB1	1.90	0.53
42:MM:7:VAL:HB	42:MM:137:ILE:HG22	1.90	0.53
41:NH:271:ALA:HB1	41:NH:289:LEU:HG	1.90	0.53
42:OA:89:PRO:HD3	42:PA:283:HIS:HE1	1.71	0.53
42:OA:188:ILE:O	42:OA:191:THR:OG1	2.22	0.53
42:OE:75:ILE:HG22	42:OE:79:ARG:HG3	1.90	0.53
42:OK:46:ASP:HB3	42:OK:49:PHE:HE2	1.74	0.53
41:PB:375:GLN:HB3	41:PB:379:LYS:HE2	1.90	0.53
42:PG:259:LEU:HA	42:PG:314:ALA:CB	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:PH:67:ASP:O	41:PH:93:GLY:N	2.39	0.53
41:PH:328:GLU:O	41:PH:329:GLN:C	2.46	0.53
42:PI:315:CYS:HB2	42:PI:351:PHE:HD1	1.73	0.53
42:PK:3:GLU:HB3	42:PK:129:CYS:HB3	1.90	0.53
42:QG:169:PHE:CD1	42:QG:202:PHE:HB3	2.43	0.53
42:QI:5:ILE:HG12	42:QI:125:LEU:HD22	1.90	0.53
42:QI:108:TYR:HA	42:QI:112:LYS:HG2	1.90	0.53
42:QI:114:LEU:HB3	42:QI:149:PHE:CE1	2.41	0.53
41:QL:17:GLY:HA2	41:QL:20:PHE:CD2	2.43	0.53
41:RD:420:SER:HA	41:RD:423:GLN:HE21	1.73	0.53
41:RH:170:VAL:HG21	41:RH:377:LEU:HD11	1.90	0.53
41:RH:181:GLU:HA	41:RH:184:ASN:HB2	1.91	0.53
42:SG:90:GLU:HG2	42:SG:121:ARG:HH21	1.73	0.53
41:SJ:30:ILE:HB	41:SJ:34:GLY:HA2	1.90	0.53
41:SL:193:VAL:HA	41:SL:264:HIS:HE1	1.72	0.53
42:TC:199:ASP:N	42:TC:199:ASP:OD1	2.40	0.53
42:TC:312:TYR:HE2	42:TC:341:ILE:HG23	1.74	0.53
42:TE:27:GLU:OE1	42:TE:320:ARG:NH2	2.35	0.53
42:TG:88:HIS:HB2	42:TG:91:GLN:HG2	1.90	0.53
42:TI:219:ILE:HB	42:TI:222:PRO:HD3	1.89	0.53
42:TI:239:THR:O	42:TI:240:ALA:C	2.45	0.53
41:TJ:253:LEU:HD22	41:TJ:350:LYS:HZ1	1.73	0.53
42:TM:248:LEU:HB2	42:TM:355:ILE:H	1.74	0.53
41:UH:135:LEU:HD23	41:UH:166:THR:HG23	1.90	0.53
42:UK:196:GLU:HG3	42:UK:197:HIS:ND1	2.23	0.53
42:UK:229:ARG:NH1	42:UK:365:GLY:O	2.41	0.53
42:VC:118:VAL:HG11	42:VC:149:PHE:HZ	1.74	0.53
41:VD:128:ASP:OD1	41:VD:128:ASP:N	2.41	0.53
42:VG:116:ASP:OD1	42:VG:117:LEU:N	2.42	0.53
42:VG:289:ALA:O	42:VG:293:ASN:ND2	2.39	0.53
41:VH:68:LEU:HD12	41:VH:97:ALA:HB2	1.89	0.53
42:WC:70:LEU:HD13	42:WC:110:ILE:HG23	1.90	0.53
42:WC:132:LEU:O	42:WC:164:LYS:NZ	2.36	0.53
42:WE:328:VAL:HG12	42:WE:332:ILE:HD11	1.90	0.53
5:1N:109:LEU:HD12	42:LC:159:VAL:HG22	1.90	0.53
15:3A:91:SER:HA	41:JJ:355:ASP:HB2	1.90	0.53
30:5A:84:ARG:HH11	41:LL:276:ARG:HG2	1.73	0.53
31:5J:25:THR:HB	31:5J:66:ILE:HD13	1.90	0.53
33:5S:211:GLY:O	33:5S:212:SER:C	2.46	0.53
34:6G:364:HIS:O	34:6H:114:ARG:NH2	2.42	0.53
34:6K:462:LYS:O	34:6K:465:SER:OG	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:6M:164:LEU:HA	34:6M:167:MET:HB3	1.91	0.53
37:7C:113:LYS:HZ3	42:SM:96:LYS:HD3	1.74	0.53
41:AD:189:VAL:HG11	41:AD:415:MET:HG3	1.89	0.53
42:AE:76:ASP:HA	42:AE:79:ARG:HB2	1.88	0.53
41:AF:230:SER:HA	41:AF:233:MET:HG2	1.90	0.53
42:AG:36:MET:HG2	42:AG:61:HIS:CE1	2.44	0.53
42:BC:422:ARG:HH12	42:BC:426:ALA:HB2	1.73	0.53
41:BF:45:GLU:HG3	41:BF:46:ARG:HG2	1.91	0.53
42:CE:88:HIS:ND1	42:DE:283:HIS:HB2	2.24	0.53
41:CF:248:ALA:HA	41:CF:252:LYS:HD3	1.89	0.53
42:CK:279:GLU:N	42:CK:279:GLU:OE2	2.41	0.53
42:DC:292:THR:OG1	42:DC:319:TYR:OH	2.21	0.53
41:DD:192:LEU:O	41:DD:196:THR:OG1	2.24	0.53
41:DD:326:VAL:O	41:DD:330:MET:HG2	2.07	0.53
42:DG:271:THR:HG21	42:DG:295:CYS:HA	1.90	0.53
42:EC:188:ILE:HG13	42:EC:395:PHE:HB2	1.89	0.53
41:ED:4:ILE:HG13	41:ED:49:VAL:HG23	1.91	0.53
42:EE:69:ASP:H	42:EE:75:ILE:HD11	1.72	0.53
42:EE:254:GLU:HG2	41:EF:98:GLY:HA2	1.91	0.53
42:EI:35:GLN:HG3	42:EI:60:LYS:HG3	1.90	0.53
41:EJ:3:GLU:H	41:EJ:131:GLN:H	1.55	0.53
42:EK:86:LEU:O	42:EK:88:HIS:N	2.41	0.53
41:FF:292:GLN:HG2	41:FF:298:ASN:HD21	1.74	0.53
41:FH:344:TRP:HZ3	42:FI:403:ALA:HB2	1.73	0.53
42:FI:88:HIS:CD2	42:GI:283:HIS:HB3	2.43	0.53
41:FJ:36:TYR:HB2	41:FJ:59:TYR:HE1	1.74	0.53
42:FK:172:TYR:OH	45:FK:501:GTP:H4'	2.08	0.53
41:FL:380:ARG:O	41:FL:383:GLU:HG3	2.09	0.53
42:FM:413:MET:SD	42:FM:417:GLU:HG3	2.48	0.53
41:GF:248:ALA:HA	41:GF:252:LYS:HD2	1.89	0.53
42:GG:28:HIS:HE1	42:GG:243:ARG:HD2	1.73	0.53
41:GJ:274:THR:OG1	41:GJ:275:SER:N	2.42	0.53
41:GL:324:LYS:HG3	42:GM:222:PRO:HD2	1.90	0.53
42:GM:21:TRP:CZ2	42:GM:65:ALA:HB2	2.43	0.53
42:HG:77:GLU:O	42:HG:81:GLY:N	2.41	0.53
41:HL:163:ILE:HD11	41:HL:251:ARG:HD3	1.89	0.53
41:HL:217:LEU:HD21	41:HL:276:ARG:HD3	1.89	0.53
41:IL:24:ILE:HG12	41:IL:28:HIS:CD2	2.43	0.53
41:JF:258:VAL:HG23	42:JG:407:TRP:HE1	1.73	0.53
41:JL:143:THR:N	43:JL:501:GDP:O1B	2.41	0.53
42:KK:271:THR:HB	42:KK:377:MET:HB3	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:KL:256:ASN:HD21	41:KL:350:LYS:HD3	1.74	0.53
42:LI:172:TYR:HB2	42:LI:203:MET:HG3	1.90	0.53
42:MK:3:GLU:OE1	42:MK:130:THR:N	2.40	0.53
42:MK:322:ASP:OD1	42:MK:323:VAL:N	2.42	0.53
42:NK:151:SER:HB3	42:NK:193:THR:HG21	1.90	0.53
42:NK:228:ASN:HA	42:NK:231:ILE:HD12	1.91	0.53
41:OD:87:PRO:HA	41:OD:90:PHE:HD2	1.74	0.53
41:OH:7:LEU:HA	41:OH:64:VAL:HG23	1.91	0.53
41:OJ:182:PRO:HB3	41:OJ:384:GLN:HB3	1.91	0.53
41:OJ:246:LEU:H	41:OJ:353:VAL:HG23	1.72	0.53
41:PD:186:THR:HG22	41:PD:187:LEU:HD22	1.91	0.53
41:PF:338:SER:O	41:PF:339:SER:C	2.47	0.53
42:PG:220:GLU:O	42:PG:221:ARG:C	2.45	0.53
41:PH:60:VAL:HB	41:QH:281:TYR:CG	2.43	0.53
42:PI:394:LYS:O	42:PI:395:PHE:C	2.45	0.53
41:QD:172:SER:OG	41:QD:175:VAL:O	2.27	0.53
42:QE:8:HIS:HB2	42:QE:67:PHE:CD1	2.43	0.53
41:RD:331:LEU:HD22	42:RE:177:VAL:HB	1.89	0.53
41:RF:162:ARG:O	41:RF:163:ILE:C	2.46	0.53
41:RF:323:MET:O	41:RF:324:LYS:C	2.47	0.53
42:RG:75:ILE:HG23	42:RG:92:LEU:HG	1.90	0.53
41:SD:242:PHE:CD1	41:SD:356:ILE:HG21	2.44	0.53
42:SE:66:VAL:HG21	42:SE:122:ILE:HG13	1.89	0.53
42:SE:70:LEU:HD13	42:SE:110:ILE:HD13	1.90	0.53
42:SM:30:ILE:HG12	42:SM:34:GLY:HA2	1.91	0.53
41:TF:325:GLU:OE2	41:TF:325:GLU:N	2.42	0.53
41:UJ:193:VAL:HG12	41:UJ:265:PHE:CE2	2.44	0.53
42:VG:387:ALA:HA	42:VG:390:ARG:HE	1.74	0.53
41:VH:270:PHE:O	41:VH:298:ASN:ND2	2.42	0.53
42:VI:250:VAL:HA	42:VI:254:GLU:HG3	1.90	0.53
42:WG:298:PRO:HA	42:WG:301:GLN:HG2	1.90	0.53
41:WJ:48:ASN:O	41:WJ:62:ARG:NH1	2.42	0.53
20:3O:623:ARG:HH11	41:ED:56:GLY:HA2	1.73	0.53
22:4C:182:THR:HG22	42:CG:76:ASP:HB3	1.91	0.53
31:5E:14:GLN:NE2	31:5E:72:ASP:OD1	2.41	0.53
31:5H:128:CYS:CB	42:PK:279:GLU:HA	2.39	0.53
32:5M:386:ASP:HA	32:5M:390:CYS:HB2	1.90	0.53
34:6C:351:ILE:HD11	34:6C:469:ASP:HB3	1.91	0.53
34:6H:256:LYS:NZ	34:6M:204:LYS:HA	2.24	0.53
37:7C:232:CYS:O	41:TF:332:ASN:ND2	2.41	0.53
37:7F:41:HIS:HE1	37:7F:45:LYS:HB2	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:7H:144:PHE:HE1	41:IF:294:PHE:HB3	1.73	0.53
38:7H:206:ARG:NH1	42:HC:117:LEU:N	2.56	0.53
42:AI:228:ASN:OD1	45:AI:501:GTP:N1	2.40	0.53
42:BE:296:PHE:HD2	42:BE:341:ILE:HG12	1.74	0.53
41:BJ:165:ASN:HD21	41:BJ:250:LEU:HD11	1.73	0.53
41:CD:31:ASP:OD2	41:CD:33:THR:HG22	2.09	0.53
42:CG:291:ILE:HD13	42:CG:373:ARG:HB3	1.91	0.53
41:CJ:250:LEU:HA	41:CJ:253:LEU:HD12	1.90	0.53
41:DB:236:VAL:HG23	41:DB:237:THR:HG23	1.91	0.53
42:DE:53:PHE:HB3	42:DE:61:HIS:HB3	1.91	0.53
42:DG:7:VAL:HG23	42:DG:66:VAL:HB	1.91	0.53
41:DH:54:ALA:CA	41:EH:283:ALA:HB2	2.27	0.53
41:DH:271:ALA:HB3	41:DH:272:PRO:HD3	1.91	0.53
42:DK:88:HIS:CD2	42:EK:284:GLU:HG3	2.43	0.53
42:DK:412:GLY:O	42:DK:413:MET:C	2.47	0.53
42:EE:139:HIS:CE1	42:EE:170:SER:HB3	2.44	0.53
42:EG:348:PRO:HB2	41:EH:384:GLN:HE22	1.72	0.53
42:EI:298:PRO:HA	42:EI:301:GLN:HG2	1.91	0.53
42:EK:297:GLU:HG2	42:EK:300:ASN:HD22	1.74	0.53
41:EL:21:TRP:NE1	41:EL:50:TYR:OH	2.41	0.53
42:EM:139:HIS:CD2	42:EM:168:GLU:HG2	2.44	0.53
42:FE:272:TYR:HD2	42:FE:275:VAL:HB	1.74	0.53
42:FI:134:GLY:HA3	42:FI:252:LEU:HD22	1.91	0.53
42:FK:172:TYR:O	42:FK:174:ALA:N	2.41	0.53
42:FM:292:THR:HG21	42:FM:331:ALA:HB1	1.91	0.53
41:GH:210:ILE:O	41:GH:214:THR:OG1	2.24	0.53
42:GM:146:GLY:O	42:GM:150:THR:HB	2.09	0.53
41:HB:163:ILE:HG21	41:HB:250:LEU:HB3	1.90	0.53
42:HG:261:PRO:HB2	42:HG:346:TRP:CH2	2.43	0.53
41:HH:137:HIS:ND1	41:HH:144:GLY:O	2.42	0.53
42:HK:142:GLY:HA2	42:HK:186:ASN:HB2	1.91	0.53
42:IE:252:LEU:HA	42:IE:255:PHE:HD1	1.72	0.53
42:IM:195:LEU:HD12	42:IM:266:HIS:HE1	1.74	0.53
42:IM:324:VAL:HG21	41:IN:219:THR:HG23	1.91	0.53
41:JH:317:PHE:HB2	41:JH:353:VAL:HG22	1.89	0.53
42:KC:241:SER:OG	42:KC:250:VAL:N	2.35	0.53
41:KN:207:LEU:HB3	41:KN:225:LEU:HD22	1.91	0.53
42:LG:195:LEU:O	42:LG:266:HIS:NE2	2.41	0.53
42:LM:175:PRO:HG3	42:LM:304:LYS:HB3	1.90	0.53
41:MD:100:ASN:HB3	41:MD:103:LYS:HG3	1.89	0.53
42:MG:1:MET:SD	42:MG:50:ASN:HB3	2.48	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:MG:9:VAL:HG12	42:MG:145:THR:HG22	1.90	0.53
41:MN:293:MET:HE2	41:MN:367:PHE:HB3	1.89	0.53
42:NI:335:ILE:HG23	42:NI:341:ILE:HD12	1.90	0.53
42:NK:31:GLN:HG2	42:NK:37:PRO:HD3	1.91	0.53
42:NK:273:ALA:HB3	42:NK:274:PRO:HD3	1.91	0.53
41:OD:204:ASN:ND2	43:OD:501:GDP:O2'	2.41	0.53
41:OF:50:TYR:HE2	41:OF:237:THR:HG21	1.72	0.53
41:OL:134:GLN:HA	41:OL:165:ASN:HB2	1.91	0.53
42:PC:88:HIS:CD2	42:PC:89:PRO:HD2	2.44	0.53
42:PC:298:PRO:O	42:PC:299:ALA:C	2.46	0.53
41:PD:86:ARG:HB3	41:PD:89:ASN:CB	2.38	0.53
42:PG:148:GLY:O	42:PG:150:THR:N	2.42	0.53
42:PI:60:LYS:O	42:PI:61:HIS:C	2.47	0.53
41:PL:389:PHE:CZ	41:PL:408:PHE:HB2	2.44	0.53
42:QI:31:GLN:C	42:QI:33:ASP:H	2.12	0.53
41:QJ:104:GLY:HA2	41:QJ:109:GLY:N	2.21	0.53
42:QK:54:SER:HB2	42:QK:64:ARG:HG3	1.90	0.53
42:QK:310:GLY:HA3	42:QK:383:ALA:HB2	1.90	0.53
41:QL:106:TYR:O	41:QL:107:THR:C	2.47	0.53
41:RF:237:THR:HA	41:RF:240:LEU:HD13	1.89	0.53
41:RF:289:LEU:HD11	41:RF:363:MET:HB3	1.90	0.53
41:SF:19:LYS:HD3	41:SF:223:GLY:HA2	1.91	0.53
42:SI:269:LEU:HD21	42:SI:384:ILE:HD13	1.90	0.53
41:TF:268:PRO:HG2	41:TF:300:MET:HB2	1.91	0.53
42:UI:167:LEU:HD11	42:UI:255:PHE:HZ	1.74	0.53
42:VI:31:GLN:HG3	42:VI:37:PRO:HD3	1.90	0.53
42:VK:172:TYR:CE1	42:VK:205:ASP:HB3	2.43	0.53
41:WF:34:GLY:HA3	41:WF:58:LYS:HG3	1.90	0.53
42:WK:102:ASN:O	42:WK:104:ALA:N	2.42	0.53
42:WK:280:LYS:HA	42:WK:283:HIS:HB2	1.90	0.53
41:WL:207:LEU:HB3	41:WL:225:LEU:HG	1.91	0.53
14:2X:102:HIS:O	41:OF:279:GLN:NE2	2.38	0.53
16:3C:31:GLN:NE2	42:UE:127:ASP:O	2.42	0.53
16:3C:209:MET:O	42:VM:308:ARG:NH2	2.42	0.53
20:3N:85:ILE:HG13	20:3N:178:PRO:HB2	1.91	0.53
27:4R:194:LEU:H	27:4R:195:PRO:HD2	1.73	0.53
31:5J:61:SER:O	31:5J:65:ARG:NH1	2.42	0.53
34:6A:326:GLN:HE21	34:6A:330:VAL:HG23	1.74	0.53
34:6C:207:GLY:O	34:6C:208:ILE:C	2.47	0.53
34:6C:365:LEU:HD13	34:6C:455:LEU:HB3	1.91	0.53
34:6N:406:ARG:NH2	34:6N:412:CYS:H	2.06	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:6S:369:CYS:SG	35:6S:370:ARG:N	2.82	0.53
37:7C:114:HIS:CD2	42:SM:114:LEU:HA	2.43	0.53
41:AD:372:THR:HA	41:AD:422:TYR:HE2	1.74	0.53
42:AE:276:ILE:HD11	42:AE:286:LEU:HD11	1.89	0.53
41:CD:391:ARG:O	41:CD:392:LYS:C	2.46	0.53
42:CI:238:ILE:HD11	42:CI:378:LEU:HD21	1.91	0.53
41:CJ:193:VAL:HG21	41:CJ:418:LEU:HD21	1.89	0.53
41:DH:257:MET:SD	41:DH:312:THR:HB	2.49	0.53
42:DI:206:ASN:ND2	42:DI:224:TYR:HE2	2.05	0.53
41:DJ:31:ASP:CB	41:DJ:35:THR:HB	2.38	0.53
41:DJ:255:VAL:HG21	42:DK:100:ALA:HB1	1.89	0.53
42:DK:269:LEU:HD21	42:DK:384:ILE:HB	1.89	0.53
42:EC:171:ILE:HG13	42:EC:204:VAL:HG13	1.90	0.53
41:ED:285:THR:HB	41:ED:287:PRO:HD2	1.91	0.53
41:EF:54:ALA:HB2	41:FF:281:TYR:CE1	2.43	0.53
42:EG:252:LEU:HA	42:EG:255:PHE:HD2	1.73	0.53
41:EH:204:ASN:HD22	41:EH:225:LEU:HD23	1.74	0.53
42:EI:103:TYR:OH	42:EI:192:HIS:NE2	2.36	0.53
42:EK:10:GLY:O	42:EK:13:GLY:N	2.41	0.53
42:EK:184:PRO:HB3	42:EK:394:LYS:HB2	1.90	0.53
42:FC:209:ILE:HD11	42:FC:230:LEU:HB3	1.90	0.53
41:FD:190:HIS:CD2	41:FD:411:ALA:HA	2.44	0.53
42:FG:318:LEU:HB2	42:FG:376:CYS:HB2	1.90	0.53
42:FK:56:THR:OG1	42:FK:60:LYS:HB2	2.09	0.53
41:FL:296:ALA:O	41:FL:297:LYS:C	2.47	0.53
41:GF:239:CYS:HB3	41:GF:247:ASN:HB2	1.90	0.53
42:GM:261:PRO:HD2	42:GM:265:ILE:O	2.09	0.53
42:HC:143:GLY:HA3	45:HC:501:GTP:PG	2.49	0.53
41:HD:2:ARG:HB3	42:HE:97:GLU:OE2	2.08	0.53
41:HF:2:ARG:NH1	42:HG:72:PRO:HD2	2.24	0.53
42:HI:261:PRO:HA	41:HJ:394:PHE:CE1	2.44	0.53
41:HJ:271:ALA:HB3	41:HJ:272:PRO:HD3	1.91	0.53
42:HK:76:ASP:OD2	42:HK:79:ARG:NH1	2.42	0.53
42:IC:147:SER:OG	42:IC:190:THR:OG1	2.21	0.53
41:IF:42:LEU:HD13	41:IF:356:ILE:HD11	1.91	0.53
41:IH:22:GLU:HA	41:IH:81:PHE:HE2	1.73	0.53
41:IH:46:ARG:NH2	42:II:76:ASP:OD2	2.36	0.53
41:IJ:347:ASN:OD1	42:IK:394:LYS:HD3	2.09	0.53
41:IN:167:PHE:CE1	41:IN:233:MET:HG2	2.44	0.53
42:JK:27:GLU:HB3	42:JK:244:PHE:HZ	1.74	0.53
41:JL:326:VAL:HG13	41:JL:351:THR:HG21	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:KC:140:SER:OG	45:KC:501:GTP:O2A	2.26	0.53
42:KG:188:ILE:HG22	42:KG:421:ALA:HB1	1.89	0.53
41:KJ:29:GLY:HA3	41:KJ:43:GLN:NE2	2.23	0.53
42:LC:105:ARG:HH21	42:LC:110:ILE:HG13	1.72	0.53
42:LC:142:GLY:HA2	42:LC:183:GLU:HG2	1.91	0.53
41:LF:272:PRO:HG3	41:LF:364:SER:HA	1.91	0.53
42:LI:3:GLU:HA	42:LI:51:THR:HA	1.91	0.53
41:LN:274:THR:HG22	41:LN:282:ARG:HD2	1.91	0.53
42:ME:274:PRO:HG3	42:ME:374:ALA:HA	1.91	0.53
41:MJ:263:LEU:HD13	41:MJ:311:LEU:HD13	1.91	0.53
42:MK:169:PHE:HA	42:MK:202:PHE:HB2	1.91	0.53
41:MN:314:ALA:HB3	41:MN:368:ILE:HG13	1.91	0.53
41:ND:66:VAL:HG23	41:ND:91:VAL:HB	1.90	0.53
42:NK:286:LEU:HD11	42:NK:371:VAL:HB	1.91	0.53
42:OE:5:ILE:HG22	42:OE:132:LEU:HD11	1.90	0.53
42:OG:7:VAL:HA	42:OG:66:VAL:HG13	1.90	0.53
41:OH:74:ASP:HA	41:OH:77:ARG:HD2	1.91	0.53
42:PC:21:TRP:CZ2	42:PC:65:ALA:HB2	2.43	0.53
41:PD:271:ALA:HB3	41:PD:272:PRO:HD3	1.90	0.53
42:PG:133:GLN:HB3	42:PG:252:LEU:HD12	1.90	0.53
41:QB:2:ARG:HH21	41:QB:240:LEU:HA	1.74	0.53
41:QB:6:HIS:CE1	41:QB:8:GLN:HB2	2.44	0.53
41:RD:271:ALA:HB2	41:RD:293:MET:HG2	1.91	0.53
41:RH:309:ARG:HD3	41:RH:342:VAL:HG22	1.91	0.53
42:RI:147:SER:OG	42:RI:190:THR:OG1	2.25	0.53
41:SH:97:ALA:HB3	41:SH:143:THR:HG23	1.91	0.53
41:SJ:246:LEU:HB3	41:SJ:353:VAL:H	1.73	0.53
41:SL:28:HIS:HA	41:SL:242:PHE:HZ	1.73	0.53
42:TM:223:THR:HG22	42:TM:224:TYR:H	1.74	0.53
42:TM:258:ASN:HB2	42:TM:352:LYS:HD3	1.90	0.53
42:TM:259:LEU:HD21	42:TM:268:PRO:HG3	1.91	0.53
42:UE:54:SER:N	42:UE:62:VAL:O	2.31	0.53
41:UF:3:GLU:HG2	41:UF:127:CYS:SG	2.48	0.53
41:UH:259:PRO:HG2	41:UH:263:LEU:HD22	1.90	0.53
42:UM:175:PRO:HG2	42:UM:304:LYS:HD2	1.91	0.53
42:UM:191:THR:HA	42:UM:194:THR:HG22	1.91	0.53
42:UM:210:TYR:HD1	42:UM:222:PRO:HG2	1.74	0.53
41:VF:121:ARG:NH1	41:VF:158:GLU:OE2	2.42	0.53
42:WK:35:GLN:NE2	42:WK:58:ALA:O	2.41	0.53
7:1U:20:TYR:CD2	41:JL:277:GLY:HA3	2.43	0.53
10:2G:159:TYR:OH	41:VH:128:ASP:OD1	2.26	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:3P:593:ARG:HG3	20:3P:596:GLU:HA	1.91	0.53
31:5D:68:LEU:HD23	31:5D:71:LEU:HD12	1.91	0.53
33:5W:14:LEU:HD13	33:5W:17:TRP:CD1	2.43	0.53
41:AD:281:TYR:OH	41:KF:83:GLN:O	2.26	0.53
42:AI:326:LYS:HD3	41:AJ:220:PRO:HD2	1.91	0.53
41:AJ:350:LYS:HA	42:AK:179:THR:O	2.09	0.53
41:BJ:290:THR:HG21	41:BJ:329:GLN:HB3	1.91	0.53
42:BK:200:CYS:HA	42:BK:266:HIS:HB2	1.91	0.53
42:CE:147:SER:OG	42:CE:190:THR:OG1	2.23	0.53
42:CI:246:GLY:HA3	42:CI:356:ASN:HA	1.90	0.53
41:CJ:389:PHE:O	41:CJ:390:ARG:C	2.47	0.53
41:CL:16:ILE:HG12	41:CL:226:ASN:OD1	2.09	0.53
41:DB:48:ASN:O	41:DB:62:ARG:NE	2.42	0.53
41:DB:167:PHE:CE2	41:DB:233:MET:HB2	2.29	0.53
41:DB:412:GLU:OE1	41:DB:416:ASN:ND2	2.42	0.53
41:DD:16:ILE:HD11	41:DD:229:VAL:HG21	1.91	0.53
42:EE:187:SER:O	42:EE:191:THR:HG23	2.09	0.53
42:EI:136:LEU:HA	42:EI:167:LEU:HB2	1.91	0.53
41:EL:169:VAL:HG22	41:EL:202:ILE:HD11	1.91	0.53
42:EM:72:PRO:HA	42:EM:94:THR:HG21	1.90	0.53
42:EM:90:GLU:O	42:EM:91:GLN:C	2.47	0.53
41:FD:391:ARG:O	41:FD:392:LYS:C	2.47	0.53
42:FK:305:CYS:O	42:FK:306:ASP:C	2.48	0.53
42:FM:9:VAL:HG23	42:FM:139:HIS:HB3	1.90	0.53
42:GM:180:ALA:HB3	42:GM:183:GLU:HB2	1.91	0.53
42:GM:319:TYR:HB2	42:GM:355:ILE:HD13	1.90	0.53
41:HB:189:VAL:O	41:HB:193:VAL:HG23	2.09	0.53
42:HC:73:THR:O	42:HC:75:ILE:N	2.41	0.53
42:HI:100:ALA:O	42:HI:102:ASN:N	2.42	0.53
41:HJ:5:VAL:HG22	41:HJ:62:ARG:HD2	1.91	0.53
41:HJ:135:LEU:HB3	41:HJ:166:THR:HG22	1.91	0.53
41:HL:27:GLU:OE1	41:HL:241:ARG:NH2	2.42	0.53
42:IK:279:GLU:O	42:IK:283:HIS:ND1	2.41	0.53
42:IM:241:SER:HB2	42:IM:249:ASN:HB2	1.91	0.53
41:JF:392:LYS:HE2	41:JF:395:LEU:HG	1.90	0.53
41:JF:406:MET:SD	41:JF:409:THR:OG1	2.61	0.53
42:JM:141:PHE:HE1	42:JM:194:THR:HG21	1.74	0.53
42:KG:27:GLU:OE1	42:KG:236:SER:OG	2.27	0.53
41:KH:331:LEU:HD13	42:KI:177:VAL:HG12	1.91	0.53
41:LL:68:LEU:HD12	41:LL:97:ALA:HB2	1.91	0.53
42:MI:317:LEU:HD22	42:MI:319:TYR:HE1	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:MM:139:HIS:CD2	42:MM:170:SER:HG	2.25	0.53
41:NB:333:VAL:HG13	41:NB:337:ASN:HD21	1.73	0.53
41:ND:61:PRO:HG3	41:ND:84:ILE:HG23	1.91	0.53
42:NG:348:PRO:HD2	41:NH:388:MET:HE2	1.91	0.53
41:NH:100:ASN:HB2	41:NH:103:LYS:HG3	1.91	0.53
41:NH:222:TYR:HA	41:NH:225:LEU:HD12	1.91	0.53
42:OC:16:ILE:HA	42:OC:228:ASN:HB3	1.91	0.53
42:OC:235:VAL:O	42:OC:239:THR:HG22	2.09	0.53
42:OE:319:TYR:HA	42:OE:375:VAL:HG12	1.90	0.53
41:OH:174:LYS:HE3	41:OH:205:GLU:HG2	1.91	0.53
42:OK:66:VAL:HA	42:OK:91:GLN:HB2	1.91	0.53
42:OK:252:LEU:HA	42:OK:255:PHE:HD2	1.74	0.53
41:PB:21:TRP:CE3	41:PB:61:PRO:HB3	2.43	0.53
41:PB:172:SER:HA	41:PB:380:ARG:HH11	1.74	0.53
42:PI:69:ASP:O	42:PI:94:THR:HA	2.08	0.53
42:PI:81:GLY:O	42:PI:82:THR:C	2.47	0.53
41:PJ:73:MET:SD	41:PJ:77:ARG:NH2	2.82	0.53
42:PK:63:PRO:HG3	42:PK:87:PHE:HD1	1.74	0.53
42:QC:326:LYS:HZ1	41:QD:212:PHE:HD1	1.57	0.53
41:QF:31:ASP:OD1	41:QF:34:GLY:N	2.42	0.53
41:QL:64:VAL:O	41:QL:65:LEU:C	2.47	0.53
41:QL:238:THR:O	41:QL:239:CYS:C	2.47	0.53
41:RD:162:ARG:O	41:RD:163:ILE:C	2.47	0.53
41:RF:97:ALA:HB1	41:RF:103:LYS:HB3	1.91	0.53
41:RF:324:LYS:HE2	42:RG:210:TYR:HA	1.90	0.53
42:RK:231:ILE:HA	42:RK:234:ILE:HD12	1.89	0.53
42:SC:326:LYS:HD3	41:SD:212:PHE:HZ	1.74	0.53
41:SD:383:GLU:OE2	41:SD:384:GLN:NE2	2.42	0.53
41:SJ:49:VAL:HG11	41:SJ:241:ARG:HG2	1.91	0.53
41:SL:89:ASN:HB3	41:SL:119:VAL:HG11	1.91	0.53
41:TH:396:HIS:HB3	41:TH:397:TRP:CE3	2.44	0.53
42:UC:260:VAL:HG12	42:UC:266:HIS:HA	1.91	0.53
41:UD:416:ASN:HA	41:UD:419:VAL:HG23	1.90	0.53
42:UE:71:GLU:HB2	42:UE:98:ASP:HB3	1.90	0.53
42:UG:13:GLY:HA2	42:UG:16:ILE:HG12	1.91	0.53
41:UJ:141:GLY:O	41:UJ:145:SER:OG	2.27	0.53
41:UJ:320:ARG:NH1	41:UJ:355:ASP:HB3	2.24	0.53
41:UL:375:GLN:HE22	41:UL:419:VAL:HA	1.74	0.53
41:VD:252:LYS:NZ	42:VE:101:ASN:OD1	2.30	0.53
42:VK:261:PRO:HA	41:VL:394:PHE:CE1	2.43	0.53
42:WC:247:ALA:HB3	42:WC:355:ILE:HB	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:WI:107:HIS:HD2	42:WI:152:LEU:HB2	1.73	0.53
41:WJ:358:PRO:HB2	41:WJ:361:LEU:HD21	1.90	0.53
14:2X:69:GLY:N	42:OE:221:ARG:O	2.42	0.53
19:3L:264:ILE:HG13	19:3L:275:ILE:HG23	1.91	0.53
21:3V:225:PRO:HG2	42:VM:55:GLU:HG2	1.91	0.53
22:3Z:112:ALA:O	22:3Z:116:ASN:ND2	2.42	0.53
27:4Q:113:PHE:HB3	27:4Q:152:PRO:HB2	1.90	0.53
31:5J:44:ILE:HG23	31:5J:111:LEU:HG	1.91	0.53
33:5R:295:GLU:HG3	33:5R:299:HIS:HE1	1.74	0.53
33:5X:111:ASP:OD1	35:6V:414:LYS:NZ	2.42	0.53
34:6G:204:LYS:HD3	34:6L:255:GLU:OE1	2.08	0.53
34:6G:430:THR:HG23	34:6H:131:LYS:HD2	1.91	0.53
35:6V:168:VAL:HG21	35:6W:53:LEU:HD13	1.91	0.53
37:7C:127:ARG:HH11	41:TL:296:ALA:HB1	1.72	0.53
42:AE:2:ARG:NH2	41:AF:69:GLU:OE2	2.41	0.53
41:AF:242:PHE:HB3	41:AF:356:ILE:HD13	1.91	0.53
42:AK:334:THR:O	42:AK:337:THR:HB	2.09	0.53
42:AK:439:SER:HB2	41:AL:391:ARG:HD2	1.91	0.53
41:BB:294:PHE:HE1	41:BB:313:VAL:HG11	1.73	0.53
42:BC:336:LYS:HZ3	42:BC:351:PHE:HE1	1.56	0.53
41:BJ:156:ARG:NH2	41:BJ:197:ASP:OD1	2.42	0.53
42:CK:109:THR:O	42:CK:112:LYS:N	2.39	0.53
41:DF:314:ALA:HA	41:DF:350:LYS:H	1.74	0.53
42:DI:233:GLN:O	42:DI:236:SER:OG	2.26	0.53
41:DJ:52:ASN:O	41:EJ:282:ARG:NH2	2.42	0.53
42:DK:349:THR:HG21	41:DL:182:PRO:CD	2.38	0.53
42:EC:307:PRO:HB2	42:EC:312:TYR:HE1	1.74	0.53
42:EG:141:PHE:O	42:EG:142:GLY:C	2.48	0.53
42:EK:105:ARG:HA	42:EK:109:THR:HG22	1.91	0.53
42:EK:416:GLY:CA	42:EK:420:GLU:HB3	2.38	0.53
41:EL:9:ALA:HB3	41:EL:137:HIS:HB3	1.91	0.53
41:EL:17:GLY:O	41:EL:21:TRP:N	2.36	0.53
42:FE:253:THR:HG23	42:FE:256:GLN:NE2	2.22	0.53
42:FE:311:LYS:HE3	42:FE:344:VAL:H	1.74	0.53
41:FF:272:PRO:HG3	41:FF:364:SER:HA	1.90	0.53
42:FK:188:ILE:HD13	42:FK:395:PHE:HB2	1.90	0.53
42:FK:212:ILE:HA	42:FK:215:ARG:HH22	1.74	0.53
41:FL:58:LYS:HG3	41:GL:280:GLN:HE22	1.73	0.53
42:HC:101:ASN:HA	42:HC:143:GLY:HA2	1.89	0.53
42:HC:254:GLU:HG2	41:HD:98:GLY:HA2	1.90	0.53
41:HJ:259:PRO:HA	42:HK:404:PHE:CD1	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:IE:191:THR:HB	42:IE:425:MET:HE1	1.90	0.53
41:IJ:52:ASN:O	42:JI:285:GLN:NE2	2.42	0.53
42:JC:209:ILE:HG23	42:JC:230:LEU:HD22	1.91	0.53
42:JG:90:GLU:HG3	42:JG:121:ARG:NH2	2.13	0.53
42:JG:196:GLU:HG2	42:JG:197:HIS:HD2	1.74	0.53
42:JK:132:LEU:O	42:JK:133:GLN:C	2.46	0.53
41:JL:11:GLN:HA	41:JL:72:THR:HG21	1.91	0.53
42:KC:326:LYS:HG2	41:KD:212:PHE:CE2	2.43	0.53
41:KD:139:LEU:HD22	41:KD:170:VAL:HG12	1.90	0.53
42:KG:64:ARG:HG3	42:KG:125:LEU:HD22	1.90	0.53
42:KK:274:PRO:HG2	42:KK:374:ALA:HA	1.89	0.53
41:LH:252:LYS:HG3	42:LI:100:ALA:HA	1.91	0.53
42:ME:55:GLU:HG2	42:ME:57:GLY:H	1.73	0.53
42:MK:133:GLN:HB3	42:MK:252:LEU:HB3	1.91	0.53
42:MM:63:PRO:HG2	42:MM:87:PHE:HD1	1.73	0.53
41:NB:98:GLY:O	41:NB:99:ASN:C	2.47	0.53
41:NB:189:VAL:HG22	41:NB:193:VAL:HG23	1.91	0.53
41:OB:232:THR:HG21	41:OB:269:GLY:H	1.75	0.53
41:OH:150:LEU:HD12	41:OH:151:LEU:N	2.23	0.53
41:OL:303:CYS:SG	41:OL:377:LEU:HG	2.49	0.53
41:OL:318:ARG:HA	41:OL:354:CYS:HB3	1.91	0.53
41:PF:391:ARG:O	41:PF:392:LYS:C	2.46	0.53
42:PG:250:VAL:HG11	42:PG:318:LEU:HG	1.90	0.53
42:PG:432:TYR:O	42:PG:433:GLU:C	2.47	0.53
42:PI:52:PHE:HE1	42:PI:243:ARG:HH11	1.55	0.53
42:PI:66:VAL:HG11	42:PI:122:ILE:HG13	1.90	0.53
42:PK:8:HIS:HB2	42:PK:67:PHE:HD2	1.74	0.53
42:QE:311:LYS:H	42:QE:382:THR:HG22	1.73	0.53
42:QG:70:LEU:HD22	42:QG:99:ALA:HB2	1.91	0.53
41:QJ:297:LYS:O	41:QJ:299:MET:N	2.42	0.53
42:QK:357:TYR:O	42:QK:358:GLN:C	2.47	0.53
41:RD:256:ASN:HB3	41:RD:350:LYS:HG3	1.91	0.53
42:RG:20:CYS:SG	42:RG:21:TRP:HD1	2.32	0.53
41:RH:117:LEU:HD22	41:RH:154:LYS:HD3	1.90	0.53
42:SC:50:ASN:O	42:SC:64:ARG:NH1	2.41	0.53
41:SH:52:ASN:HB2	41:SH:62:ARG:HD3	1.90	0.53
42:SI:258:ASN:HD21	41:SJ:99:ASN:HB3	1.74	0.53
42:SK:229:ARG:HG2	42:SK:366:GLY:HA3	1.90	0.53
41:TD:61:PRO:HD3	41:TD:84:ILE:HG12	1.91	0.53
42:TE:135:PHE:HB2	42:TE:166:LYS:HG3	1.91	0.53
41:TF:101:TRP:HE1	41:TF:149:THR:HG1	1.57	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:TF:249:ASP:H	41:TF:252:LYS:HB3	1.74	0.53
42:TK:180:ALA:HB3	42:TK:183:GLU:HB2	1.90	0.53
41:UH:242:PHE:HB3	41:UH:356:ILE:HD13	1.91	0.53
42:UI:36:MET:HG3	42:UI:61:HIS:HE1	1.75	0.53
42:UK:105:ARG:HG2	42:UK:110:ILE:CG2	2.38	0.53
42:VE:134:GLY:HA3	42:VE:165:SER:HB2	1.91	0.53
42:VG:53:PHE:O	42:VG:64:ARG:NH2	2.43	0.53
42:VK:56:THR:HG22	42:WK:285:GLN:HB3	1.90	0.53
41:VL:52:ASN:N	41:VL:60:VAL:O	2.42	0.53
42:WC:71:GLU:HB2	42:WC:98:ASP:HB2	1.91	0.53
42:WG:206:ASN:ND2	45:WG:501:GTP:O2'	2.42	0.53
42:WK:251:ASP:H	42:WK:254:GLU:HG3	1.74	0.53
9:2D:567:TYR:CD1	41:IN:276:ARG:CD	2.78	0.52
11:2K:479:GLN:HE22	42:VE:369:ALA:HA	1.74	0.52
20:3N:12:TRP:H	41:KD:72:THR:N	2.07	0.52
27:4R:64:GLU:OE1	27:4R:161:ASN:ND2	2.42	0.52
34:6B:389:LYS:O	34:6B:390:SER:C	2.47	0.52
40:7N:339:SER:HB2	42:JG:225:THR:HG21	1.90	0.52
41:AD:341:PHE:HB3	41:AD:348:ASN:HD22	1.74	0.52
42:AE:336:LYS:O	42:AE:339:ARG:NH2	2.42	0.52
42:AG:9:VAL:HG11	42:AG:150:THR:HB	1.91	0.52
41:AH:322:SER:HA	42:AI:223:THR:HG22	1.91	0.52
42:BC:88:HIS:HB3	42:BC:91:GLN:HG2	1.89	0.52
41:BL:310:TYR:HA	41:BL:371:SER:HA	1.90	0.52
41:CD:245:GLN:O	41:CD:246:LEU:HB2	2.08	0.52
42:CE:133:GLN:HE22	42:CE:251:ASP:HB2	1.75	0.52
41:CJ:243:PRO:HB3	42:CK:77:GLU:OE1	2.10	0.52
41:DH:129:CYS:O	41:DH:130:LEU:C	2.46	0.52
41:DH:315:ALA:H	41:DH:350:LYS:HE3	1.73	0.52
41:DL:49:VAL:HG23	41:DL:50:TYR:HD1	1.73	0.52
41:ED:39:ASP:O	41:ED:40:SER:HB2	2.08	0.52
41:ED:49:VAL:HG13	41:ED:50:TYR:H	1.74	0.52
42:EG:408:TYR:HB2	42:EG:418:PHE:HZ	1.74	0.52
42:EI:224:TYR:OH	42:EI:228:ASN:ND2	2.38	0.52
42:EM:223:THR:OG1	42:EM:224:TYR:N	2.41	0.52
42:FC:319:TYR:HB3	42:FC:323:VAL:HG21	1.90	0.52
41:FH:189:VAL:HG13	41:FH:265:PHE:HZ	1.72	0.52
41:FH:252:LYS:HE2	42:FI:101:ASN:HB3	1.89	0.52
42:FK:12:ALA:HA	45:FK:501:GTP:C5	2.44	0.52
41:GF:58:LYS:HE2	41:HF:280:GLN:HB3	1.91	0.52
42:HC:193:THR:OG1	42:HC:194:THR:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:HD:121:ARG:O	41:HD:125:GLU:HG3	2.09	0.52
41:HJ:101:TRP:HE3	41:HJ:184:ASN:HA	1.74	0.52
42:HK:167:LEU:HD13	42:HK:252:LEU:HD23	1.91	0.52
41:IN:316:VAL:HG13	41:IN:352:ALA:HB3	1.90	0.52
41:JJ:386:THR:HB	41:JJ:390:ARG:HH21	1.74	0.52
41:KD:238:THR:HG21	41:KD:318:ARG:NH2	2.24	0.52
42:KI:147:SER:OG	42:KI:190:THR:OG1	2.25	0.52
42:LC:286:LEU:O	42:LC:373:ARG:NH1	2.41	0.52
42:LK:285:GLN:HB3	42:MK:56:THR:HA	1.90	0.52
42:MC:3:GLU:HA	42:MC:51:THR:HA	1.89	0.52
41:MF:320:ARG:HE	41:MF:355:ASP:HB2	1.75	0.52
42:MI:228:ASN:OD1	45:MI:501:GTP:N1	2.41	0.52
41:ND:44:LEU:O	41:ND:45:GLU:C	2.47	0.52
42:NI:273:ALA:HB3	42:NI:375:VAL:CG2	2.38	0.52
42:OA:290:GLU:O	42:OA:294:ALA:N	2.42	0.52
42:OC:102:ASN:HB3	42:OC:105:ARG:HG3	1.91	0.52
42:OE:239:THR:O	42:OE:243:ARG:NE	2.41	0.52
41:OJ:391:ARG:O	41:OJ:392:LYS:C	2.47	0.52
42:PA:167:LEU:HD22	42:PA:255:PHE:HE2	1.75	0.52
42:PC:140:SER:HA	42:PC:171:ILE:HG22	1.90	0.52
41:PH:12:CYS:SG	41:PH:169:VAL:HG21	2.49	0.52
41:PH:163:ILE:HD13	41:PH:251:ARG:HA	1.91	0.52
41:PH:382:SER:O	41:PH:383:GLU:C	2.48	0.52
41:PJ:86:ARG:HB3	41:PJ:89:ASN:ND2	2.23	0.52
41:PL:275:SER:HB3	41:PL:278:SER:HB3	1.91	0.52
42:QC:97:GLU:HG3	42:QC:98:ASP:H	1.75	0.52
41:QF:285:THR:OG1	41:QF:288:GLU:OE1	2.26	0.52
41:QH:172:SER:HB2	41:QH:205:GLU:HG2	1.91	0.52
41:QH:244:GLY:HA2	41:QH:355:ASP:HB3	1.91	0.52
41:QH:257:MET:HB3	41:QH:266:PHE:CE2	2.44	0.52
42:QI:21:TRP:CZ3	42:QI:63:PRO:HB3	2.44	0.52
41:QL:166:THR:HB	41:QL:199:THR:HB	1.90	0.52
41:RD:96:GLY:O	41:RD:97:ALA:C	2.46	0.52
42:RG:376:CYS:SG	42:RG:377:MET:N	2.81	0.52
41:RH:61:PRO:HG2	41:RH:85:PHE:HA	1.91	0.52
42:RI:363:VAL:HG22	42:RI:368:LEU:HD13	1.92	0.52
41:RJ:108:GLU:O	41:RJ:109:GLY:C	2.48	0.52
42:RK:133:GLN:HB3	42:RK:252:LEU:HB2	1.89	0.52
42:SG:105:ARG:O	42:SG:111:GLY:N	2.42	0.52
42:SK:2:ARG:HG2	42:SK:51:THR:HB	1.90	0.52
42:SK:269:LEU:HD21	42:SK:384:ILE:HB	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:TC:136:LEU:HB3	42:TC:138:PHE:HE2	1.74	0.52
41:TH:270:PHE:O	41:TH:298:ASN:ND2	2.33	0.52
41:TJ:237:THR:HG23	41:TJ:240:LEU:HD13	1.91	0.52
42:TM:286:LEU:HD13	42:TM:371:VAL:HG21	1.91	0.52
42:UC:302:MET:O	42:UC:303:VAL:C	2.48	0.52
41:UD:99:ASN:HA	41:UD:142:GLY:HA2	1.90	0.52
41:UD:304:ASP:OD1	41:UD:306:ARG:NH1	2.40	0.52
41:UH:248:ALA:HA	41:UH:252:LYS:HD3	1.91	0.52
42:UI:229:ARG:HD3	42:UI:363:VAL:HG11	1.91	0.52
41:VD:248:ALA:HA	41:VD:252:LYS:HD2	1.91	0.52
42:VG:439:SER:OG	41:VH:390:ARG:NH1	2.42	0.52
41:VH:12:CYS:HB3	41:VH:138:SER:HB2	1.91	0.52
42:VM:108:TYR:OH	42:VM:413:MET:HB2	2.08	0.52
42:WK:262:TYR:HB2	42:WK:265:ILE:HG12	1.91	0.52
42:WM:271:THR:HA	42:WM:302:MET:HG3	1.90	0.52
9:2D:605:GLN:HA	42:JM:370:LYS:HG2	1.90	0.52
16:3C:125:SER:HA	42:UI:123:ARG:NH2	2.23	0.52
16:3C:126:ALA:HB1	42:VI:338:LYS:HE3	1.90	0.52
19:3J:111:ILE:HG13	41:BD:359:ARG:HD3	1.91	0.52
20:3O:428:THR:HG23	20:3O:430:LYS:H	1.74	0.52
20:3P:321:ASP:N	20:3P:321:ASP:OD1	2.42	0.52
22:3Z:186:PRO:HG3	41:CH:44:LEU:HD21	1.90	0.52
32:5O:205:VAL:O	32:5O:206:ARG:C	2.47	0.52
33:5W:295:GLU:OE2	33:5W:299:HIS:NE2	2.42	0.52
34:6J:54:THR:HG22	35:6P:251:ALA:HB2	1.91	0.52
35:6R:317:LYS:HA	35:6R:320:HIS:HB3	1.91	0.52
37:7F:68:PRO:HD3	42:OC:338:LYS:HZ3	1.75	0.52
41:AB:2:ARG:HB2	41:AB:240:LEU:HD21	1.90	0.52
41:AF:156:ARG:NH1	41:AF:195:ASN:O	2.42	0.52
41:AF:311:LEU:HD23	41:AF:342:VAL:HG11	1.91	0.52
41:AH:273:LEU:HB2	41:AH:292:GLN:HE22	1.74	0.52
41:AJ:266:PHE:HE1	41:AJ:370:ASN:HD22	1.57	0.52
42:BE:172:TYR:OH	42:BE:387:ALA:O	2.24	0.52
41:BH:113:VAL:HG21	41:BH:150:LEU:HD23	1.89	0.52
42:CE:205:ASP:HB2	42:CE:303:VAL:HG23	1.92	0.52
42:CG:106:GLY:C	42:CG:111:GLY:HA3	2.28	0.52
41:CH:393:ALA:O	41:CH:395:LEU:N	2.42	0.52
42:CI:236:SER:OG	42:CI:243:ARG:NH2	2.41	0.52
41:DB:101:TRP:O	41:DB:105:HIS:ND1	2.32	0.52
41:DD:257:MET:HE1	41:DD:368:ILE:O	2.09	0.52
41:DD:313:VAL:O	41:DD:349:VAL:HA	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DE:62:VAL:HG21	42:EE:283:HIS:HA	1.91	0.52
42:DG:215:ARG:NH1	42:DG:299:ALA:O	2.43	0.52
41:DJ:53:GLU:CA	41:EJ:282:ARG:NH1	2.73	0.52
42:DK:238:ILE:HG12	42:DK:378:LEU:HD11	1.91	0.52
41:DL:91:VAL:HG21	41:DL:116:VAL:HG22	1.91	0.52
41:DL:376:GLU:OE2	41:DL:380:ARG:NH2	2.33	0.52
42:DM:99:ALA:HA	42:DM:105:ARG:HE	1.75	0.52
42:DM:345:ASP:OD2	42:DM:439:SER:N	2.39	0.52
42:EC:208:ALA:HB2	42:EC:304:LYS:HG3	1.90	0.52
42:EE:288:VAL:HB	42:EE:323:VAL:HG12	1.92	0.52
41:EH:16:ILE:HG23	41:EH:230:SER:HB2	1.91	0.52
42:FC:291:ILE:HB	42:FC:375:VAL:HG11	1.91	0.52
41:FF:336:LYS:O	41:FF:338:SER:N	2.42	0.52
41:GD:21:TRP:CZ2	41:GD:63:ALA:HB2	2.44	0.52
42:GE:71:GLU:HG2	42:GE:73:THR:HG22	1.92	0.52
42:HC:261:PRO:HB3	42:HC:346:TRP:CH2	2.44	0.52
41:HD:80:PRO:O	41:HD:82:GLY:N	2.43	0.52
42:HG:12:ALA:HB2	42:HG:140:SER:HB3	1.91	0.52
41:HH:9:ALA:HB3	41:HH:137:HIS:HB3	1.90	0.52
42:HK:248:LEU:HB2	42:HK:355:ILE:HG12	1.90	0.52
41:IJ:99:ASN:HA	41:IJ:142:GLY:HA3	1.91	0.52
41:IJ:172:SER:OG	41:IJ:175:VAL:O	2.26	0.52
41:KD:322:SER:HB3	42:KE:221:ARG:HG3	1.90	0.52
41:KF:236:VAL:HG22	41:KF:368:ILE:HD11	1.90	0.52
41:KH:7:LEU:HD21	41:KH:151:LEU:HD13	1.91	0.52
41:KJ:26:ASP:O	41:KJ:359:ARG:NH1	2.41	0.52
41:MF:30:ILE:HG23	41:MF:34:GLY:HA2	1.90	0.52
42:NC:213:CYS:HB2	42:NC:222:PRO:HG3	1.90	0.52
41:NF:5:VAL:HG22	41:NF:130:LEU:HD11	1.90	0.52
41:NH:360:GLY:O	41:NH:361:LEU:C	2.46	0.52
42:NI:109:THR:O	42:NI:110:ILE:C	2.48	0.52
42:NI:188:ILE:HD11	42:NI:392:ASP:HA	1.91	0.52
42:NK:209:ILE:CG2	42:NK:227:LEU:HG	2.40	0.52
41:OB:319:GLY:CA	41:OB:357:PRO:HB3	2.38	0.52
42:OI:164:LYS:O	42:OI:166:LYS:NZ	2.36	0.52
41:OJ:171:PRO:HG2	41:OJ:185:ALA:HB2	1.91	0.52
41:PB:4:ILE:HD12	41:PB:131:GLN:HB3	1.91	0.52
42:PC:135:PHE:N	42:PC:166:LYS:HB3	2.24	0.52
42:PC:346:TRP:CH2	41:PD:393:ALA:HB3	2.44	0.52
41:QF:105:HIS:HA	41:QF:150:LEU:HD21	1.90	0.52
41:QH:139:LEU:HD12	41:QH:170:VAL:HA	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:QH:276:ARG:HE	41:QH:279:GLN:HG3	1.74	0.52
41:RB:8:GLN:HE21	41:RB:65:LEU:HG	1.74	0.52
41:RD:303:CYS:HB3	41:RD:376:GLU:HG2	1.92	0.52
42:RE:132:LEU:HD12	42:RE:135:PHE:HE2	1.74	0.52
41:RF:3:GLU:HG3	41:RF:127:CYS:HB2	1.91	0.52
42:RG:236:SER:O	42:RG:240:ALA:N	2.41	0.52
42:RK:6:SER:O	42:RK:66:VAL:N	2.42	0.52
42:RK:66:VAL:HG22	42:RK:121:ARG:HH12	1.74	0.52
41:RL:189:VAL:HA	41:RL:192:LEU:HB3	1.90	0.52
41:RL:312:THR:OG1	41:RL:370:ASN:ND2	2.35	0.52
42:SC:315:CYS:HB2	42:SC:351:PHE:CD1	2.43	0.52
41:SD:165:ASN:HD22	41:SD:250:LEU:HD21	1.73	0.52
42:SE:3:GLU:CD	42:SE:129:CYS:HB2	2.29	0.52
42:SK:336:LYS:HE2	42:SK:351:PHE:CD2	2.44	0.52
41:SL:3:GLU:HG3	41:SL:127:CYS:CB	2.38	0.52
42:TE:167:LEU:HD11	42:TE:252:LEU:HD22	1.92	0.52
41:TF:139:LEU:HB2	41:TF:171:PRO:HD3	1.90	0.52
41:TJ:51:TYR:O	41:TJ:62:ARG:NH1	2.42	0.52
41:TL:103:LYS:HA	41:TL:107:THR:HB	1.91	0.52
42:TM:396:ASP:OD2	42:TM:422:ARG:NH2	2.29	0.52
42:UC:164:LYS:O	42:UC:165:SER:C	2.47	0.52
41:UF:354:CYS:SG	41:UF:355:ASP:N	2.82	0.52
41:UJ:222:TYR:CZ	43:UJ:501:GDP:C5	2.95	0.52
42:UK:3:GLU:OE1	42:UK:64:ARG:NH1	2.34	0.52
42:UK:140:SER:OG	42:UK:141:PHE:N	2.41	0.52
41:VF:334:GLN:HE21	41:VF:349:VAL:HG23	1.74	0.52
42:VK:274:PRO:HB3	42:VK:291:ILE:HD11	1.91	0.52
41:WD:100:ASN:HB3	41:WD:103:LYS:HG3	1.91	0.52
42:WI:188:ILE:HG22	42:WI:421:ALA:HB1	1.91	0.52
41:WL:345:ILE:HB	41:WL:348:ASN:HD21	1.74	0.52
42:WM:50:ASN:OD1	42:WM:64:ARG:NH2	2.42	0.52
42:WM:251:ASP:OD1	42:WM:252:LEU:N	2.42	0.52
41:WN:135:LEU:HD22	41:WN:152:ILE:HD11	1.92	0.52
20:3O:590:ARG:HG2	20:3O:593:ARG:HH21	1.73	0.52
20:3P:537:LYS:HZ1	20:3P:577:VAL:HG11	1.73	0.52
20:3Q:426:LEU:HA	20:3Q:506:PHE:H	1.74	0.52
22:3Y:34:THR:HA	42:CE:219:ILE:HB	1.90	0.52
22:4B:189:ARG:HH21	41:CL:53:GLU:HG3	1.74	0.52
27:4Q:142:ILE:HG23	27:4Q:143:LEU:HD22	1.90	0.52
28:4W:77:PHE:HA	42:GM:358:GLN:HE22	1.74	0.52
35:6Q:78:ARG:HH12	35:6R:328:GLU:HG2	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:6T:321:HIS:HB3	35:6U:71:ARG:HH22	1.75	0.52
39:7L:32:PRO:HG2	39:7L:35:ARG:HG2	1.91	0.52
41:AB:100:ASN:HB2	41:AB:103:LYS:HB2	1.91	0.52
41:AD:215:LEU:HD11	41:AD:273:LEU:HD22	1.90	0.52
42:AG:79:ARG:NH2	42:AG:92:LEU:O	2.42	0.52
42:AI:344:VAL:HB	42:AI:346:TRP:CZ3	2.44	0.52
42:CC:344:VAL:HG22	42:CC:345:ASP:H	1.73	0.52
42:CE:81:GLY:O	42:CE:84:ARG:NH1	2.42	0.52
42:CE:184:PRO:HG3	42:CE:394:LYS:HE2	1.91	0.52
41:CF:91:VAL:HG13	41:CF:115:SER:HB2	1.91	0.52
41:CF:347:ASN:OD1	41:CF:347:ASN:N	2.41	0.52
42:CG:218:ASP:O	42:CG:220:GLU:N	2.42	0.52
41:DH:285:THR:HB	41:DH:287:PRO:HD2	1.92	0.52
42:DI:247:ALA:HB3	42:DI:355:ILE:HB	1.91	0.52
42:DK:432:TYR:HA	42:DK:435:VAL:HG22	1.91	0.52
41:ED:162:ARG:O	41:ED:163:ILE:C	2.47	0.52
41:ED:198:GLU:HB3	41:ED:266:PHE:HE2	1.74	0.52
41:EJ:60:VAL:HG21	41:EJ:86:ARG:HH12	1.74	0.52
42:EK:328:VAL:HG21	42:EK:355:ILE:HD11	1.91	0.52
41:FH:50:TYR:HE1	41:FH:134:GLN:NE2	2.07	0.52
41:FJ:315:ALA:HB3	41:FJ:351:THR:HA	1.91	0.52
42:FK:168:GLU:HB3	42:FK:203:MET:SD	2.50	0.52
42:FK:180:ALA:HB3	42:FK:183:GLU:HG3	1.91	0.52
41:FL:45:GLU:HG2	41:FL:46:ARG:HG2	1.90	0.52
41:GJ:178:THR:O	41:GJ:181:GLU:HB2	2.08	0.52
41:GJ:290:THR:HA	41:GJ:293:MET:HE2	1.91	0.52
41:HD:354:CYS:SG	41:HD:355:ASP:N	2.78	0.52
41:HF:312:THR:HG21	42:HG:404:PHE:HZ	1.74	0.52
42:IC:8:HIS:HE1	42:IC:21:TRP:HE1	1.56	0.52
42:IK:273:ALA:HB2	42:IK:295:CYS:HB2	1.91	0.52
41:IN:318:ARG:HD2	41:IN:358:PRO:HD3	1.91	0.52
41:JD:287:PRO:HA	41:JD:329:GLN:HE22	1.75	0.52
41:KJ:346:PRO:HG3	42:KK:394:LYS:HB3	1.91	0.52
42:KK:377:MET:HE3	42:KK:379:SER:HB3	1.90	0.52
42:LM:139:HIS:NE2	42:LM:168:GLU:OE2	2.41	0.52
41:MD:334:GLN:NE2	41:MD:348:ASN:HB2	2.23	0.52
42:ME:319:TYR:HB3	42:ME:323:VAL:HG21	1.90	0.52
41:MN:290:THR:HG23	41:MN:317:PHE:HZ	1.75	0.52
42:NI:100:ALA:O	42:NI:101:ASN:C	2.48	0.52
41:OD:141:GLY:O	41:OD:145:SER:OG	2.27	0.52
42:OE:220:GLU:N	42:OE:220:GLU:OE2	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:OF:235:GLY:HA3	41:OF:366:THR:HG21	1.92	0.52
41:OJ:256:ASN:O	41:OJ:312:THR:HG21	2.10	0.52
42:OK:60:LYS:HD2	42:OK:61:HIS:H	1.74	0.52
41:PB:385:PHE:CD2	41:PB:412:GLU:HG3	2.45	0.52
42:PC:91:GLN:HG3	42:PC:92:LEU:HD13	1.92	0.52
42:PC:250:VAL:HG21	42:PC:318:LEU:HG	1.90	0.52
42:PC:360:PRO:HG3	42:PC:374:ALA:HB2	1.91	0.52
42:PE:100:ALA:O	42:PE:102:ASN:N	2.42	0.52
42:PK:372:GLN:HG2	42:PK:373:ARG:HG3	1.90	0.52
41:PL:140:GLY:HA2	41:PL:181:GLU:HG2	1.91	0.52
41:PL:173:PRO:O	41:PL:174:LYS:C	2.47	0.52
41:PL:180:VAL:HG22	41:PL:183:TYR:HB2	1.91	0.52
41:PL:423:GLN:HE22	41:PL:426:GLN:HB2	1.75	0.52
41:QD:46:ARG:NH2	42:QE:76:ASP:OD2	2.42	0.52
41:QD:273:LEU:HD23	41:QD:298:ASN:HD21	1.73	0.52
41:QH:192:LEU:O	41:QH:193:VAL:C	2.48	0.52
42:QI:401:LYS:O	42:QI:402:ARG:C	2.46	0.52
41:QJ:385:PHE:CZ	41:QJ:408:PHE:HB3	2.44	0.52
41:QL:104:GLY:HA3	41:QL:147:MET:HB2	1.90	0.52
41:QL:113:VAL:HG21	41:QL:150:LEU:HD12	1.90	0.52
41:QL:266:PHE:CD1	41:QL:370:ASN:HB3	2.45	0.52
41:RB:190:HIS:HD2	41:RB:414:ASN:HB2	1.75	0.52
42:RE:260:VAL:O	41:RF:396:HIS:NE2	2.42	0.52
41:RF:289:LEU:HB3	41:RF:365:ALA:CB	2.38	0.52
41:RF:319:GLY:C	41:RF:355:ASP:HA	2.29	0.52
41:RJ:68:LEU:HB2	41:RJ:143:THR:OG1	2.10	0.52
42:SG:26:LEU:HD23	42:SG:363:VAL:HG12	1.91	0.52
42:TM:87:PHE:CE2	42:TM:92:LEU:HD11	2.45	0.52
42:UI:5:ILE:HG22	42:UI:64:ARG:HB3	1.91	0.52
41:UL:375:GLN:NE2	41:UL:419:VAL:HA	2.24	0.52
42:UM:238:ILE:HG23	42:UM:239:THR:HG23	1.91	0.52
41:WD:296:ALA:HB2	41:WD:306:ARG:NH1	2.24	0.52
41:WD:324:LYS:HE2	42:WE:214:ARG:HD2	1.90	0.52
42:WI:220:GLU:O	42:WI:221:ARG:C	2.47	0.52
41:WJ:317:PHE:HB3	41:WJ:321:MET:HE1	1.90	0.52
42:WK:209:ILE:HD11	42:WK:230:LEU:HG	1.90	0.52
11:2J:218:GLU:OE2	39:7K:93:PRO:HB3	2.09	0.52
14:2Y:125:ARG:NH2	42:MM:401:LYS:HA	2.24	0.52
19:3L:42:ARG:NH1	19:3L:43:PRO:O	2.43	0.52
20:3O:424:ALA:HB2	20:3O:440:ILE:HG12	1.91	0.52
25:4I:44:ARG:NH2	41:IH:74:ASP:OD1	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:4K:189:GLU:HA	26:4K:192:ILE:HG22	1.90	0.52
27:4O:76:TYR:OH	42:WC:127:ASP:OD1	2.28	0.52
27:4R:86:GLU:O	27:4R:88:ASP:N	2.38	0.52
35:6T:309:GLU:HA	35:6T:312:GLU:HG2	1.90	0.52
35:6W:276:VAL:HA	35:6W:279:ARG:HE	1.72	0.52
38:7H:66:PRO:O	41:IJ:332:ASN:ND2	2.41	0.52
41:BD:290:THR:HA	41:BD:293:MET:HE2	1.91	0.52
42:BE:98:ASP:OD1	42:BE:99:ALA:N	2.42	0.52
42:BI:10:GLY:HA2	42:BI:145:THR:CG2	2.40	0.52
42:CG:172:TYR:CD1	42:CG:173:PRO:HD2	2.45	0.52
42:CI:25:CYS:HA	42:CI:30:ILE:HG23	1.91	0.52
41:CJ:337:ASN:O	41:CJ:339:SER:N	2.43	0.52
42:CM:405:VAL:HG13	42:CM:418:PHE:HE2	1.74	0.52
41:DD:132:GLY:HA2	41:DD:162:ARG:HB3	1.92	0.52
41:DJ:317:PHE:O	41:DJ:353:VAL:HA	2.10	0.52
41:DL:253:LEU:HD21	41:DL:368:ILE:HG21	1.91	0.52
42:EE:415:GLU:HA	42:EE:418:PHE:HD2	1.73	0.52
42:EI:106:GLY:HA3	42:EI:148:GLY:HA3	1.90	0.52
42:EK:208:ALA:HB1	42:EK:302:MET:HA	1.91	0.52
42:FC:11:GLN:C	42:FC:13:GLY:H	2.12	0.52
41:FF:2:ARG:NH2	41:FF:239:CYS:O	2.43	0.52
41:FH:296:ALA:HB2	41:FH:306:ARG:HH22	1.74	0.52
42:FK:169:PHE:CD2	42:FK:231:ILE:HG23	2.45	0.52
41:FL:54:ALA:HB3	41:FL:58:LYS:HB3	1.90	0.52
41:FL:220:PRO:HB2	41:FL:225:LEU:HD21	1.90	0.52
41:FL:294:PHE:O	41:FL:295:ASP:C	2.48	0.52
42:GC:11:GLN:HG3	42:GC:74:VAL:HG21	1.91	0.52
41:GF:68:LEU:HD23	41:GF:97:ALA:HB2	1.90	0.52
42:GM:291:ILE:HG23	42:GM:375:VAL:HG11	1.91	0.52
41:HD:165:ASN:HD21	41:HD:250:LEU:HD13	1.73	0.52
41:ID:134:GLN:HA	41:ID:165:ASN:HB2	1.91	0.52
41:IJ:309:ARG:NH1	41:IJ:426:GLN:O	2.43	0.52
42:JE:229:ARG:HD2	42:JE:363:VAL:HG21	1.91	0.52
42:JE:248:LEU:H	42:JE:355:ILE:HB	1.73	0.52
42:JG:319:TYR:HB3	42:JG:323:VAL:HG11	1.90	0.52
42:JI:139:HIS:ND1	42:JI:146:GLY:O	2.42	0.52
42:JM:269:LEU:HD22	42:JM:303:VAL:HG21	1.92	0.52
41:KD:137:HIS:ND1	41:KD:144:GLY:O	2.40	0.52
42:KE:434:GLU:OE2	41:KF:391:ARG:NH2	2.42	0.52
41:KH:242:PHE:HB3	41:KH:356:ILE:HD13	1.90	0.52
41:KL:178:THR:HB	41:KL:181:GLU:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:LL:278:SER:HA	41:LL:281:TYR:HD1	1.74	0.52
42:LM:434:GLU:O	41:LN:391:ARG:NH2	2.36	0.52
41:LN:172:SER:HB2	41:LN:204:ASN:HB2	1.92	0.52
42:MC:229:ARG:NH1	42:MC:365:GLY:O	2.42	0.52
42:MG:138:PHE:HE2	42:MG:235:VAL:HG21	1.73	0.52
41:MJ:26:ASP:O	41:MJ:359:ARG:NH1	2.42	0.52
42:NA:217:LEU:O	42:NA:218:ASP:C	2.48	0.52
41:ND:385:PHE:CZ	41:ND:408:PHE:HB3	2.39	0.52
41:NJ:163:ILE:HG21	41:NJ:250:LEU:HB3	1.91	0.52
41:NJ:214:THR:OG1	41:NJ:297:LYS:NZ	2.42	0.52
42:OC:325:PRO:HB3	41:OD:222:TYR:CZ	2.45	0.52
42:OG:16:ILE:HA	42:OG:228:ASN:HB3	1.92	0.52
42:OI:189:LEU:HD21	42:OI:418:PHE:HE1	1.74	0.52
42:PA:76:ASP:HA	42:PA:79:ARG:HB3	1.91	0.52
42:PC:88:HIS:CE1	42:PC:90:GLU:HB2	2.45	0.52
42:PG:195:LEU:HD12	42:PG:266:HIS:CE1	2.45	0.52
42:PG:265:ILE:HG23	42:PG:432:TYR:CE2	2.45	0.52
42:PI:146:GLY:O	42:PI:147:SER:C	2.46	0.52
42:PI:306:ASP:O	42:PI:307:PRO:C	2.47	0.52
41:PJ:62:ARG:HE	41:PJ:123:GLU:HB3	1.74	0.52
41:PJ:418:LEU:O	41:PJ:419:VAL:C	2.48	0.52
42:PK:55:GLU:HG3	42:PK:57:GLY:H	1.74	0.52
41:QB:221:THR:HG23	41:QB:224:ASP:H	1.74	0.52
41:QD:24:ILE:HG21	41:QD:50:TYR:HD2	1.75	0.52
41:QJ:149:THR:HA	41:QJ:152:ILE:HB	1.90	0.52
41:RB:280:GLN:HE21	41:RB:281:TYR:HD1	1.57	0.52
41:RD:263:LEU:HG	41:RD:422:TYR:CZ	2.44	0.52
41:RF:271:ALA:HB2	41:RF:293:MET:HB3	1.92	0.52
41:SD:210:ILE:HD11	41:SD:228:LEU:HG	1.91	0.52
42:SE:161:TYR:HB3	42:SE:164:LYS:HG3	1.91	0.52
41:SH:289:LEU:HD22	41:SH:363:MET:HG3	1.91	0.52
42:SM:180:ALA:HB3	42:SM:183:GLU:HB2	1.92	0.52
42:TC:248:LEU:HD21	43:TD:501:GDP:H2'	1.91	0.52
41:TF:60:VAL:HG21	41:TF:86:ARG:HE	1.74	0.52
42:TI:104:ALA:O	42:TI:108:TYR:N	2.43	0.52
41:UD:39:ASP:OD2	41:UD:40:SER:N	2.42	0.52
42:UE:240:ALA:HB1	42:UE:356:ASN:HD22	1.73	0.52
42:UE:261:PRO:HG2	42:UE:265:ILE:HG21	1.90	0.52
42:UE:298:PRO:HB3	42:UE:307:PRO:HD2	1.90	0.52
42:UK:274:PRO:HG3	42:UK:291:ILE:HD11	1.91	0.52
42:VG:70:LEU:HD23	42:VG:114:LEU:HD12	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:WM:332:ILE:HA	42:WM:335:ILE:HD12	1.91	0.52
41:WN:207:LEU:HD13	41:WN:225:LEU:HB3	1.92	0.52
9:2D:509:LEU:HD11	41:IL:270:PHE:HE2	1.74	0.52
19:3J:309:PRO:O	19:3J:309:PRO:HD2	2.10	0.52
20:3N:257:GLY:HA3	41:DB:276:ARG:HB2	1.90	0.52
20:3P:215:VAL:HG22	20:3P:240:PHE:HA	1.92	0.52
20:3P:461:TYR:H	41:FJ:216:LYS:HD2	1.73	0.52
23:4D:50:ARG:HH12	41:UJ:320:ARG:HD2	1.74	0.52
31:5J:130:GLU:OE1	42:OA:85:GLN:NE2	2.43	0.52
33:5S:202:LYS:HE2	33:5T:319:GLU:HG2	1.90	0.52
34:6B:409:ILE:O	34:6B:410:GLU:C	2.46	0.52
37:7E:192:VAL:HG13	42:NI:113:GLU:HG2	1.90	0.52
42:BI:70:LEU:HD13	42:BI:110:ILE:HG23	1.90	0.52
41:BJ:237:THR:O	41:BJ:241:ARG:NH1	2.43	0.52
42:CE:312:TYR:CE2	42:CE:341:ILE:HG23	2.44	0.52
42:CI:271:THR:HB	42:CI:377:MET:HB3	1.92	0.52
42:CK:172:TYR:OH	42:CK:387:ALA:O	2.24	0.52
41:DB:189:VAL:HG13	41:DB:193:VAL:HG21	1.91	0.52
42:DE:208:ALA:HB2	42:DE:304:LYS:HB2	1.92	0.52
41:DF:163:ILE:HA	41:DF:197:ASP:OD2	2.09	0.52
41:DF:313:VAL:HB	41:DF:367:PHE:CE1	2.45	0.52
41:DJ:311:LEU:HD21	41:DJ:425:TYR:HB2	1.92	0.52
41:ED:190:HIS:C	41:ED:192:LEU:H	2.13	0.52
41:EF:344:TRP:CE2	42:EG:401:LYS:HB2	2.44	0.52
42:FC:148:GLY:O	42:FC:151:SER:N	2.34	0.52
42:FC:261:PRO:HG2	42:FC:313:MET:HE2	1.91	0.52
41:FF:342:VAL:HG12	41:FF:344:TRP:HB3	1.90	0.52
42:FG:180:ALA:HB3	42:FG:183:GLU:HB2	1.91	0.52
42:FI:2:ARG:HB3	42:FI:133:GLN:HE22	1.75	0.52
42:FM:101:ASN:O	42:FM:186:ASN:ND2	2.39	0.52
42:FM:311:LYS:HG3	42:FM:436:GLY:HA2	1.92	0.52
42:GE:79:ARG:NH2	42:GE:92:LEU:O	2.42	0.52
41:GJ:5:VAL:HG13	41:GJ:62:ARG:HG2	1.91	0.52
42:HC:49:PHE:O	42:HC:50:ASN:C	2.47	0.52
41:HF:1:MET:CE	42:HG:96:LYS:HA	2.38	0.52
41:HH:178:THR:HB	41:HH:181:GLU:HG3	1.90	0.52
42:HI:311:LYS:HB2	42:HI:344:VAL:HG13	1.90	0.52
41:HJ:254:ALA:O	41:HJ:258:VAL:HG22	2.09	0.52
41:HL:256:ASN:ND2	42:HM:101:ASN:OD1	2.42	0.52
41:HL:393:ALA:O	41:HL:395:LEU:N	2.43	0.52
42:HM:107:HIS:HB2	42:HM:148:GLY:HA2	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:IF:228:LEU:HD11	41:IF:273:LEU:HD21	1.90	0.52
41:IL:68:LEU:HG	41:IL:97:ALA:HB2	1.91	0.52
42:IM:17:GLY:HA2	42:IM:20:CYS:HB2	1.91	0.52
42:IM:140:SER:OG	42:IM:141:PHE:N	2.43	0.52
41:IN:5:VAL:HG22	41:IN:62:ARG:HD3	1.91	0.52
42:KM:209:ILE:HB	42:KM:227:LEU:HG	1.91	0.52
41:KN:395:LEU:O	41:KN:399:THR:N	2.42	0.52
42:LG:53:PHE:O	42:LG:64:ARG:NH1	2.42	0.52
41:MH:36:TYR:OH	41:MH:40:SER:O	2.27	0.52
42:MK:142:GLY:O	42:MK:186:ASN:ND2	2.42	0.52
42:MM:136:LEU:HA	42:MM:167:LEU:HB2	1.92	0.52
41:NB:200:TYR:HE1	41:NB:266:PHE:HD1	1.56	0.52
41:ND:8:GLN:HG2	41:ND:14:ASN:HA	1.91	0.52
41:NJ:132:GLY:HA2	41:NJ:162:ARG:HB3	1.91	0.52
42:OG:5:ILE:HG13	42:OG:132:LEU:HD21	1.91	0.52
42:PC:168:GLU:HG3	42:PC:200:CYS:H	1.74	0.52
42:PE:401:LYS:O	42:PE:402:ARG:C	2.48	0.52
42:PG:399:TYR:O	42:PG:400:ALA:C	2.47	0.52
41:PJ:203:ASP:HB3	41:PJ:301:ALA:HA	1.90	0.52
42:QC:296:PHE:HD2	42:QC:341:ILE:HG12	1.74	0.52
41:QF:74:ASP:OD2	41:QF:77:ARG:NH1	2.42	0.52
41:QH:254:ALA:CA	41:QH:257:MET:HB2	2.39	0.52
41:QJ:265:PHE:HB3	41:QJ:374:ILE:HG21	1.91	0.52
41:QJ:296:ALA:O	41:QJ:297:LYS:C	2.47	0.52
41:RB:33:THR:O	41:RB:58:LYS:NZ	2.38	0.52
41:RB:204:ASN:ND2	43:RB:501:GDP:O2'	2.41	0.52
42:RK:215:ARG:HH12	42:RK:299:ALA:HB1	1.74	0.52
41:RL:107:THR:O	41:RL:109:GLY:N	2.43	0.52
41:SD:282:ARG:HH12	41:SD:292:GLN:NE2	2.07	0.52
42:SE:100:ALA:O	42:SE:101:ASN:C	2.47	0.52
41:SL:252:LYS:HE3	42:SM:100:ALA:HA	1.91	0.52
41:SL:256:ASN:HD21	42:SM:180:ALA:HB1	1.73	0.52
41:TH:135:LEU:N	41:TH:165:ASN:O	2.39	0.52
41:TH:324:LYS:HZ1	42:TI:222:PRO:CD	2.20	0.52
42:TI:79:ARG:HG2	42:TI:92:LEU:HD13	1.90	0.52
42:TM:126:ALA:HA	42:TM:129:CYS:SG	2.50	0.52
42:UE:76:ASP:HA	42:UE:79:ARG:HD3	1.91	0.52
42:VC:371:VAL:HG12	42:VC:373:ARG:H	1.73	0.52
42:VI:217:LEU:HD21	42:VI:368:LEU:HD23	1.91	0.52
42:VK:70:LEU:HG	42:VK:145:THR:HG23	1.92	0.52
42:WG:195:LEU:HD21	42:WG:264:ARG:HE	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:WL:193:VAL:HG12	41:WL:265:PHE:HE2	1.75	0.52
19:3K:276:ARG:O	19:3K:291:LEU:N	2.43	0.52
20:3O:545:SER:OG	20:3O:546:ARG:N	2.43	0.52
30:5A:267:ARG:NH1	42:LE:45:GLY:HA2	2.24	0.52
31:5F:125:HIS:HB3	31:5F:129:ASP:HB2	1.92	0.52
33:5V:345:LEU:HD13	33:5W:53:THR:HG23	1.90	0.52
33:5W:257:GLN:NE2	33:5W:261:THR:OG1	2.42	0.52
34:6B:382:ILE:HG21	34:6B:438:LEU:HB2	1.91	0.52
42:BG:274:PRO:HB2	42:BG:371:VAL:HG21	1.91	0.52
41:CF:207:LEU:HB3	41:CF:225:LEU:HG	1.92	0.52
42:CG:109:THR:O	42:CG:112:LYS:N	2.39	0.52
42:CG:320:ARG:HG3	42:CG:356:ASN:HB3	1.92	0.52
41:CJ:180:VAL:O	41:CJ:181:GLU:C	2.48	0.52
41:DB:2:ARG:HH12	42:DC:73:THR:HG23	1.74	0.52
42:DG:98:ASP:OD2	42:DG:99:ALA:N	2.42	0.52
41:DH:229:VAL:HB	41:DH:300:MET:SD	2.50	0.52
41:DJ:257:MET:HE1	41:DJ:314:ALA:HB2	1.92	0.52
42:DK:376:CYS:O	42:DK:377:MET:C	2.48	0.52
41:EJ:196:THR:HG22	41:EJ:198:GLU:H	1.74	0.52
42:FC:21:TRP:HA	42:FC:24:TYR:HB2	1.90	0.52
42:FC:391:LEU:HA	42:FC:394:LYS:HG2	1.90	0.52
41:FJ:64:VAL:HG21	41:FJ:120:VAL:HG12	1.91	0.52
42:GC:1:MET:SD	42:GC:50:ASN:ND2	2.83	0.52
42:GC:310:GLY:HA3	42:GC:383:ALA:HB2	1.92	0.52
41:GJ:104:GLY:HA3	41:GJ:146:GLY:CA	2.34	0.52
41:GJ:198:GLU:HG2	41:GJ:266:PHE:HE1	1.74	0.52
41:HD:138:SER:HA	41:HD:169:VAL:HB	1.92	0.52
41:HH:124:ALA:HB1	41:HH:130:LEU:HD11	1.92	0.52
41:HH:237:THR:HG22	41:HH:250:LEU:HD21	1.91	0.52
41:HL:86:ARG:HG3	41:IL:281:TYR:HB3	1.92	0.52
41:ID:206:ALA:HB2	41:ID:302:ALA:HB2	1.91	0.52
41:ID:330:MET:HA	41:ID:333:VAL:HG12	1.92	0.52
42:IE:99:ALA:O	42:IE:100:ALA:C	2.47	0.52
41:IF:330:MET:HB3	41:IF:349:VAL:HG11	1.91	0.52
42:II:229:ARG:HD3	42:II:363:VAL:HG21	1.91	0.52
42:IM:288:VAL:HG11	42:IM:327:ASP:HB3	1.92	0.52
41:JH:350:LYS:HZ1	42:JI:181:VAL:N	2.07	0.52
41:KF:36:TYR:OH	41:KF:40:SER:O	2.27	0.52
41:KF:66:VAL:HG12	41:KF:91:VAL:HB	1.91	0.52
41:KH:390:ARG:HG3	41:KH:391:ARG:HG2	1.92	0.52
41:LJ:172:SER:OG	41:LJ:205:GLU:OE1	2.26	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:MM:298:PRO:HB3	42:MM:307:PRO:HD2	1.92	0.52
42:MM:350:GLY:HA2	41:MN:179:VAL:HG13	1.91	0.52
42:NA:139:HIS:CE1	42:NA:168:GLU:HB3	2.45	0.52
41:NL:230:SER:HA	41:NL:233:MET:HB2	1.91	0.52
41:OB:246:LEU:HD23	41:OB:352:ALA:HA	1.90	0.52
42:OG:180:ALA:HB3	42:OG:183:GLU:HG2	1.92	0.52
41:PB:254:ALA:HA	41:PB:257:MET:HB2	1.91	0.52
41:PD:229:VAL:HA	41:PD:300:MET:HE1	1.92	0.52
41:PH:211:CYS:SG	41:PH:211:CYS:O	2.67	0.52
41:PL:222:TYR:O	41:PL:223:GLY:C	2.48	0.52
42:QE:224:TYR:O	42:QE:228:ASN:N	2.42	0.52
42:QE:262:TYR:HB2	42:QE:265:ILE:HG12	1.91	0.52
41:RB:135:LEU:HB3	41:RB:166:THR:HG22	1.92	0.52
42:RC:320:ARG:HD3	42:RC:360:PRO:HG3	1.91	0.52
42:RC:324:VAL:HG23	42:RC:327:ASP:H	1.75	0.52
41:RD:318:ARG:HB3	41:RD:358:PRO:HD3	1.92	0.52
41:RD:395:LEU:O	41:RD:396:HIS:C	2.48	0.52
41:RF:113:VAL:HG13	41:RF:114:ASP:H	1.74	0.52
41:RF:255:VAL:HA	42:RG:407:TRP:CZ3	2.44	0.52
42:SC:180:ALA:HB3	42:SC:183:GLU:HB2	1.91	0.52
42:SE:90:GLU:HG2	42:SE:91:GLN:HG2	1.92	0.52
42:SE:285:GLN:O	42:SE:286:LEU:C	2.48	0.52
41:SH:22:GLU:HG2	41:SH:81:PHE:CD2	2.44	0.52
41:SH:235:GLY:HA3	41:SH:366:THR:HG21	1.92	0.52
42:SM:51:THR:HG23	42:SM:52:PHE:CG	2.44	0.52
42:TG:75:ILE:HD11	42:TG:94:THR:HB	1.92	0.52
41:TH:393:ALA:O	41:TH:395:LEU:N	2.43	0.52
41:TJ:263:LEU:O	41:TJ:370:ASN:ND2	2.43	0.52
41:TL:393:ALA:O	41:TL:395:LEU:N	2.42	0.52
41:UD:85:PHE:HB2	41:UD:90:PHE:CZ	2.44	0.52
41:UH:3:GLU:OE1	41:UH:62:ARG:NH2	2.43	0.52
41:UH:130:LEU:O	41:UH:162:ARG:NH1	2.43	0.52
41:UL:210:ILE:O	41:UL:215:LEU:HD23	2.10	0.52
42:WI:244:PHE:HB2	42:WI:356:ASN:ND2	2.19	0.52
5:IN:39:THR:N	41:KD:412:GLU:OE1	2.42	0.52
21:3T:135:ASP:OD2	42:KG:214:ARG:NH1	2.42	0.52
24:4F:106:LYS:NZ	41:HD:32:PRO:HD2	2.24	0.52
25:4J:55:LEU:HD21	25:4J:60:LEU:HD21	1.92	0.52
25:4J:123:LEU:H	25:4J:274:MET:HB3	1.75	0.52
26:4M:124:GLU:O	26:4M:128:GLN:N	2.39	0.52
27:4P:161:ASN:HB3	27:4P:164:VAL:HG12	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:5A:342:ASN:HB2	42:LC:278:ALA:HB3	1.92	0.52
34:6K:274:LEU:HG	34:6L:395:VAL:HG23	1.91	0.52
34:6M:302:LYS:O	34:6M:306:ASP:N	2.41	0.52
37:7F:67:GLY:HA3	42:OC:338:LYS:CE	2.40	0.52
42:AI:173:PRO:HB3	42:AI:183:GLU:HG2	1.92	0.52
42:AI:195:LEU:HD22	42:AI:264:ARG:HD2	1.91	0.52
42:AK:285:GLN:O	42:AK:287:SER:N	2.43	0.52
42:BK:154:MET:HB3	42:BK:197:HIS:HB2	1.91	0.52
41:BL:414:ASN:HA	41:BL:417:ASP:HB2	1.92	0.52
42:CG:174:ALA:HB1	42:CG:175:PRO:HD2	1.92	0.52
41:DB:324:LYS:HZ1	42:DC:210:TYR:HB3	1.75	0.52
42:DC:88:HIS:HD2	42:EC:283:HIS:HB2	1.75	0.52
41:DF:412:GLU:HA	41:DF:415:MET:HB3	1.90	0.52
41:DH:112:LEU:C	41:DH:114:ASP:H	2.13	0.52
42:DI:245:ASP:OD2	42:DI:246:GLY:N	2.43	0.52
41:ED:108:GLU:O	41:ED:109:GLY:C	2.47	0.52
41:ED:394:PHE:HD1	41:ED:397:TRP:HE1	1.56	0.52
42:EE:202:PHE:HA	42:EE:268:PRO:HG2	1.92	0.52
42:EE:328:VAL:HG21	42:EE:353:VAL:HG13	1.91	0.52
42:EG:21:TRP:CZ3	42:EG:52:PHE:HB3	2.44	0.52
41:EH:46:ARG:NH2	42:EI:72:PRO:O	2.43	0.52
42:EK:260:VAL:HG13	41:EL:397:TRP:CH2	2.44	0.52
42:EK:416:GLY:O	42:EK:418:PHE:N	2.42	0.52
42:EM:220:GLU:C	42:EM:222:PRO:HD3	2.30	0.52
42:FC:99:ALA:HA	42:FC:105:ARG:HB3	1.91	0.52
42:FG:101:ASN:HA	42:FG:143:GLY:HA3	1.92	0.52
41:FH:131:GLN:NE2	41:FH:240:LEU:HD13	2.25	0.52
41:FL:68:LEU:O	41:FL:69:GLU:C	2.48	0.52
42:GC:269:LEU:N	42:GC:379:SER:O	2.40	0.52
41:GF:91:VAL:HG11	41:GF:116:VAL:HG22	1.92	0.52
41:GF:282:ARG:NH2	41:GF:288:GLU:OE1	2.43	0.52
42:GG:238:ILE:HA	42:GG:318:LEU:HD22	1.91	0.52
41:GL:83:GLN:O	41:HL:281:TYR:OH	2.27	0.52
42:GM:147:SER:HB2	42:GM:190:THR:HB	1.92	0.52
42:HM:75:ILE:HD11	42:HM:92:LEU:HG	1.92	0.52
42:JG:291:ILE:HG12	42:JG:375:VAL:HG12	1.91	0.52
41:KL:49:VAL:HG11	41:KL:241:ARG:HG2	1.92	0.52
41:KL:375:GLN:HB2	41:KL:419:VAL:HG13	1.90	0.52
41:LL:161:ASP:OD1	41:LL:161:ASP:N	2.43	0.52
42:LM:107:HIS:O	42:LM:112:LYS:NZ	2.43	0.52
42:MI:134:GLY:HA3	42:MI:165:SER:HB2	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:MI:254:GLU:OE2	41:MJ:99:ASN:ND2	2.42	0.52
42:MK:105:ARG:HA	42:MK:109:THR:HB	1.91	0.52
42:MM:172:TYR:OH	42:MM:387:ALA:O	2.26	0.52
42:NA:312:TYR:HB2	42:NA:343:PHE:HD2	1.73	0.52
41:ND:333:VAL:HA	41:ND:336:LYS:HE3	1.91	0.52
41:NH:347:ASN:HD21	41:NH:349:VAL:HG22	1.75	0.52
41:OD:110:ALA:HA	41:OD:113:VAL:HB	1.92	0.52
42:OE:118:VAL:HG11	42:OE:149:PHE:HZ	1.73	0.52
42:OG:103:TYR:CD2	42:OG:189:LEU:HB3	2.45	0.52
42:OG:219:ILE:HD11	42:OG:367:ASP:HB3	1.92	0.52
41:OJ:165:ASN:HA	41:OJ:198:GLU:HB2	1.91	0.52
42:PA:323:VAL:HG13	42:PA:355:ILE:HG23	1.91	0.52
41:PB:338:SER:O	41:PB:340:TYR:N	2.42	0.52
41:PF:242:PHE:HB3	41:PF:356:ILE:HB	1.91	0.52
41:PH:259:PRO:HD2	41:PH:260:PHE:H	1.75	0.52
41:PH:309:ARG:HE	41:PH:342:VAL:HG12	1.75	0.52
42:PI:346:TRP:HZ2	42:PI:435:VAL:HG13	1.75	0.52
42:PK:99:ALA:O	42:PK:100:ALA:C	2.47	0.52
42:PK:288:VAL:HA	42:PK:291:ILE:HG22	1.91	0.52
41:PL:217:LEU:HD23	41:PL:276:ARG:HG2	1.90	0.52
41:PL:321:MET:SD	41:PL:321:MET:N	2.82	0.52
41:QB:133:PHE:HD1	41:QB:155:ILE:HD12	1.74	0.52
41:QB:134:GLN:HG2	41:QB:165:ASN:HB2	1.91	0.52
41:QB:241:ARG:HG3	41:QB:242:PHE:HD2	1.75	0.52
41:QB:326:VAL:O	41:QB:330:MET:HG3	2.08	0.52
42:QG:144:GLY:O	42:QG:148:GLY:N	2.35	0.52
42:QG:363:VAL:O	42:QG:365:GLY:N	2.43	0.52
42:RC:277:SER:O	42:RC:281:ALA:N	2.42	0.52
41:RD:344:TRP:HB3	42:RE:401:LYS:HE2	1.92	0.52
42:RE:200:CYS:HA	42:RE:266:HIS:HB2	1.90	0.52
42:RE:306:ASP:OD1	42:RE:308:ARG:NH2	2.43	0.52
41:RH:47:ILE:HD13	41:RH:59:TYR:CE2	2.45	0.52
41:RL:378:PHE:HA	41:RL:381:ILE:HB	1.92	0.52
42:SC:32:PRO:HA	42:SC:86:LEU:HD21	1.92	0.52
41:SD:150:LEU:HG	41:SD:154:LYS:HZ1	1.75	0.52
41:SH:130:LEU:HB2	41:SH:162:ARG:HD2	1.92	0.52
42:SM:315:CYS:SG	42:SM:316:CYS:N	2.82	0.52
42:TM:273:ALA:HB3	42:TM:375:VAL:H	1.74	0.52
42:UG:175:PRO:HG3	42:UG:304:LYS:HG2	1.91	0.52
42:UK:325:PRO:HG2	41:UL:221:THR:HA	1.92	0.52
41:VD:167:PHE:CE1	41:VD:233:MET:HG2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:VK:172:TYR:CZ	42:VK:390:ARG:NH2	2.78	0.52
42:VM:252:LEU:HA	42:VM:255:PHE:HE1	1.75	0.52
41:WL:330:MET:SD	41:WL:349:VAL:HG11	2.50	0.52
42:WM:239:THR:HG23	42:WM:243:ARG:HH12	1.73	0.52
7:1T:40:ILE:CD1	24:4F:66:GLU:HB2	2.40	0.52
7:1U:169:LEU:HB3	41:ML:215:LEU:HD11	1.91	0.52
20:3O:569:ARG:NH2	20:3O:582:ASP:OD1	2.43	0.52
24:4F:106:LYS:HZ2	41:HD:32:PRO:HD2	1.75	0.52
29:4Y:76:PRO:HD3	42:GG:361:THR:HB	1.92	0.52
30:5A:316:LYS:HD2	41:LD:276:ARG:HH22	1.74	0.52
33:5W:40:GLN:NE2	34:6A:130:ASP:CG	2.63	0.52
34:6K:243:GLN:NE2	34:6K:318:SER:HB2	2.24	0.52
45:AF:502:GTP:N1	42:AG:228:ASN:OD1	2.36	0.52
42:BI:257:THR:HG22	41:BJ:397:TRP:CE3	2.44	0.52
41:CD:174:LYS:O	41:CD:175:VAL:C	2.48	0.52
42:CE:70:LEU:HD23	42:CE:114:LEU:HD12	1.92	0.52
41:CF:284:LEU:HD23	41:CF:363:MET:HG3	1.91	0.52
42:CI:16:ILE:HA	42:CI:228:ASN:HB3	1.92	0.52
42:CM:295:CYS:HB3	42:CM:377:MET:SD	2.50	0.52
42:DG:11:GLN:HB2	42:DG:74:VAL:HG21	1.91	0.52
41:ED:306:ARG:C	41:ED:308:GLY:H	2.13	0.52
41:EF:229:VAL:HG12	41:EF:233:MET:HE2	1.92	0.52
41:EL:21:TRP:HB3	41:EL:85:PHE:HZ	1.75	0.52
42:FC:166:LYS:O	42:FC:167:LEU:C	2.48	0.52
42:FC:273:ALA:HB3	42:FC:274:PRO:HD3	1.91	0.52
41:FJ:129:CYS:SG	42:FK:96:LYS:HB3	2.49	0.52
41:FJ:289:LEU:HD11	41:FJ:363:MET:HB3	1.92	0.52
42:GC:150:THR:HA	42:GC:153:LEU:HD12	1.91	0.52
41:GD:167:PHE:HD2	41:GD:202:ILE:HD11	1.75	0.52
42:GI:314:ALA:HB2	41:GJ:394:PHE:HZ	1.74	0.52
41:GJ:170:VAL:N	41:GJ:202:ILE:O	2.39	0.52
42:GM:385:ALA:HA	42:GM:388:TRP:HB2	1.92	0.52
41:HB:68:LEU:HD23	41:HB:143:THR:HG22	1.92	0.52
41:HF:319:GLY:N	41:HF:354:CYS:O	2.40	0.52
42:HI:174:ALA:HB3	42:HI:177:VAL:O	2.10	0.52
41:ID:8:GLN:HE21	41:ID:14:ASN:HA	1.74	0.52
41:IF:247:ASN:ND2	42:IG:11:GLN:OE1	2.43	0.52
42:IG:243:ARG:HB2	42:IG:244:PHE:CD1	2.43	0.52
42:IK:329:ASN:HA	42:IK:332:ILE:HG22	1.92	0.52
42:IK:399:TYR:O	42:IK:402:ARG:NH2	2.43	0.52
41:IN:183:TYR:HE2	41:IN:408:PHE:CE1	2.27	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:JE:316:CYS:HA	42:JE:352:LYS:HB3	1.92	0.52
42:KC:386:GLU:OE1	42:KC:390:ARG:NH1	2.43	0.52
42:KG:180:ALA:HB3	42:KG:183:GLU:HB2	1.91	0.52
41:LF:2:ARG:HH12	42:LG:72:PRO:HD2	1.74	0.52
42:ME:109:THR:O	42:ME:112:LYS:NZ	2.40	0.52
42:MK:256:GLN:HB3	41:ML:397:TRP:CZ3	2.45	0.52
42:MM:269:LEU:HD11	42:MM:305:CYS:HB2	1.91	0.52
41:NF:310:TYR:HA	41:NF:371:SER:HA	1.92	0.52
41:NH:107:THR:O	41:NH:108:GLU:C	2.47	0.52
41:NJ:7:LEU:N	41:NJ:134:GLN:O	2.43	0.52
41:NL:310:TYR:HA	41:NL:371:SER:HA	1.91	0.52
41:OF:193:VAL:HA	41:OF:264:HIS:HE1	1.75	0.52
42:PA:350:GLY:CA	41:PB:179:VAL:HG22	2.39	0.52
41:PB:34:GLY:O	41:PB:36:TYR:N	2.42	0.52
42:PC:114:LEU:HA	42:PC:117:LEU:HD13	1.91	0.52
41:PH:41:ASP:O	41:PH:43:GLN:N	2.43	0.52
41:PJ:3:GLU:HB3	41:PJ:127:CYS:HB2	1.92	0.52
42:QE:67:PHE:HB2	42:QE:92:LEU:HD13	1.91	0.52
41:QH:135:LEU:O	41:QH:166:THR:HA	2.10	0.52
42:SE:276:ILE:HG22	42:SE:280:LYS:HB3	1.91	0.52
42:SG:109:THR:HG22	42:SG:411:GLU:OE1	2.09	0.52
42:SG:269:LEU:N	42:SG:379:SER:O	2.42	0.52
42:SG:296:PHE:CE2	42:SG:335:ILE:HG21	2.45	0.52
42:SK:207:GLU:HA	42:SK:210:TYR:HD1	1.74	0.52
41:SL:284:LEU:HD12	41:SL:363:MET:HG2	1.92	0.52
41:TF:191:GLN:OE1	41:TF:195:ASN:ND2	2.43	0.52
41:TH:308:GLY:HA3	41:TH:373:ALA:HB2	1.90	0.52
41:TJ:99:ASN:HA	41:TJ:142:GLY:HA3	1.92	0.52
42:TM:188:ILE:HD11	42:TM:395:PHE:CD2	2.45	0.52
41:UD:211:CYS:HA	41:UD:215:LEU:HB2	1.91	0.52
41:UD:324:LYS:HZ2	42:UE:210:TYR:HB3	1.74	0.52
42:UG:88:HIS:HD2	42:UG:89:PRO:HD2	1.73	0.52
41:UJ:330:MET:SD	41:UJ:349:VAL:HG21	2.49	0.52
42:UK:414:GLU:HG3	42:UK:416:GLY:H	1.73	0.52
41:UL:2:ARG:HD2	41:UL:131:GLN:HE21	1.75	0.52
42:VC:2:ARG:HB2	42:VC:133:GLN:HE21	1.73	0.52
41:VJ:354:CYS:SG	41:VJ:355:ASP:N	2.83	0.52
41:WF:137:HIS:CE1	41:WF:168:SER:HB3	2.45	0.52
41:WN:105:HIS:CE1	41:WN:191:GLN:HE22	2.27	0.52
15:3A:33:LEU:HD21	41:IJ:119:VAL:HG22	1.92	0.52
20:3O:157:ASP:OD2	20:3O:158:ALA:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:4L:165:ASN:HB3	41:HH:337:ASN:HA	1.92	0.52
30:5A:103:ARG:HD3	42:LK:281:ALA:HB3	1.91	0.52
33:5S:185:ILE:HD12	33:5T:324:ARG:CG	2.32	0.52
33:5T:122:SER:HA	35:6S:406:GLU:OE1	2.10	0.52
33:5T:324:ARG:HE	33:5T:329:LEU:HA	1.74	0.52
33:5V:94:GLN:O	33:5V:98:SER:N	2.42	0.52
33:5X:71:VAL:HG13	33:5X:183:LEU:HD23	1.92	0.52
33:5X:312:LYS:HD3	33:5Y:201:LEU:HG	1.92	0.52
34:6B:357:ALA:HB3	34:6B:462:LYS:HZ2	1.73	0.52
34:6C:327:ASN:O	34:6C:328:VAL:C	2.47	0.52
38:7H:179:PRO:HB3	41:HD:126:SER:HA	1.90	0.52
38:7H:206:ARG:NH1	42:HC:117:LEU:H	2.06	0.52
41:AF:317:PHE:HB2	41:AF:353:VAL:HG22	1.91	0.52
42:AI:246:GLY:HA3	42:AI:356:ASN:HA	1.90	0.52
42:BC:70:LEU:HA	42:BC:95:GLY:HA3	1.92	0.52
42:BE:167:LEU:HD11	42:BE:252:LEU:HD11	1.92	0.52
42:BI:287:SER:H	42:BI:290:GLU:HG2	1.74	0.52
41:BJ:7:LEU:HD23	41:BJ:151:LEU:HD23	1.90	0.52
41:CD:398:TYR:C	41:CD:400:GLY:H	2.14	0.52
42:CE:258:ASN:ND2	41:CF:99:ASN:HB2	2.24	0.52
42:CG:227:LEU:HD22	45:CG:501:GTP:HN21	1.74	0.52
42:CG:273:ALA:HB2	42:CG:375:VAL:HG12	1.91	0.52
42:CG:403:ALA:O	42:CG:404:PHE:C	2.48	0.52
41:CJ:99:ASN:O	41:CJ:100:ASN:C	2.47	0.52
42:CK:234:ILE:HD11	42:CK:272:TYR:HB2	1.92	0.52
41:CL:113:VAL:HG21	41:CL:150:LEU:HD22	1.90	0.52
41:DB:23:VAL:O	41:DB:27:GLU:N	2.39	0.52
42:DC:260:VAL:HG11	42:DC:266:HIS:HA	1.92	0.52
42:DE:242:LEU:HD21	42:DE:251:ASP:HA	1.92	0.52
42:DI:168:GLU:OE1	42:DI:170:SER:OG	2.28	0.52
42:DK:26:LEU:O	42:DK:27:GLU:C	2.47	0.52
42:DK:68:VAL:HG21	42:DK:149:PHE:CE2	2.45	0.52
42:EE:270:ALA:O	42:EE:302:MET:HB2	2.09	0.52
42:EG:105:ARG:CB	42:EG:110:ILE:HB	2.40	0.52
42:EG:105:ARG:O	42:EG:110:ILE:N	2.43	0.52
42:EK:298:PRO:O	42:EK:301:GLN:HB2	2.09	0.52
42:EM:36:MET:O	42:EM:37:PRO:C	2.48	0.52
42:EM:100:ALA:O	42:EM:101:ASN:C	2.48	0.52
42:EM:291:ILE:HG13	42:EM:375:VAL:HB	1.92	0.52
42:FC:385:ALA:HA	42:FC:388:TRP:HE3	1.73	0.52
41:FL:52:ASN:HD21	41:FL:60:VAL:HB	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:GF:143:THR:OG1	43:GF:501:GDP:O3B	2.27	0.52
42:GG:17:GLY:HA2	42:GG:20:CYS:HB2	1.91	0.52
41:GJ:323:MET:HG3	42:GK:224:TYR:CE2	2.44	0.52
41:GL:383:GLU:HA	41:GL:386:THR:HG22	1.91	0.52
41:HB:388:MET:CG	42:HM:348:PRO:HD2	2.40	0.52
41:HD:297:LYS:O	41:HD:299:MET:N	2.38	0.52
41:HF:282:ARG:NH1	41:HF:288:GLU:OE2	2.43	0.52
41:HJ:303:CYS:O	41:HJ:304:ASP:C	2.47	0.52
42:HM:257:THR:O	42:HM:259:LEU:N	2.42	0.52
41:IF:258:VAL:O	42:IG:407:TRP:NE1	2.34	0.52
41:JL:159:TYR:HB3	41:JL:162:ARG:HD2	1.92	0.52
42:KK:208:ALA:HB2	42:KK:304:LYS:HG2	1.91	0.52
41:MD:347:ASN:O	42:ME:181:VAL:HG23	2.10	0.52
41:MF:293:MET:HE2	41:MF:367:PHE:HB2	1.92	0.52
41:MJ:405:GLU:OE2	41:MJ:405:GLU:N	2.43	0.52
41:ML:6:HIS:HE1	41:ML:8:GLN:HE21	1.58	0.52
41:MN:152:ILE:HG21	41:MN:196:THR:HG22	1.92	0.52
41:ND:246:LEU:HB2	42:NE:224:TYR:HE2	1.74	0.52
42:NI:31:GLN:O	42:NI:33:ASP:N	2.43	0.52
41:OJ:358:PRO:HB2	41:OJ:361:LEU:HD12	1.92	0.52
41:PH:1:MET:O	41:PH:3:GLU:N	2.43	0.52
42:PI:5:ILE:HD12	42:PI:132:LEU:HD11	1.91	0.52
42:PI:12:ALA:CB	42:PI:140:SER:HB3	2.40	0.52
41:PL:149:THR:HG21	41:PL:191:GLN:HG3	1.92	0.52
42:RC:30:ILE:HG13	42:RC:34:GLY:HA2	1.91	0.52
41:RH:245:GLN:O	42:RI:11:GLN:NE2	2.43	0.52
41:RJ:275:SER:O	41:RJ:279:GLN:N	2.41	0.52
42:SE:34:GLY:O	42:SE:60:LYS:HA	2.10	0.52
42:SE:273:ALA:HB3	42:SE:274:PRO:HD3	1.91	0.52
41:SJ:252:LYS:HG3	41:SJ:350:LYS:HE2	1.92	0.52
42:TE:377:MET:HE3	42:TE:379:SER:HB2	1.92	0.52
41:TF:46:ARG:NH2	42:TG:76:ASP:OD2	2.42	0.52
41:TH:8:GLN:HE21	41:TH:14:ASN:HA	1.74	0.52
41:TJ:289:LEU:HA	41:TJ:292:GLN:HG2	1.92	0.52
41:TL:289:LEU:HD22	41:TL:363:MET:HE3	1.91	0.52
42:UI:274:PRO:HG3	42:UI:374:ALA:HA	1.91	0.52
42:VI:55:GLU:HG3	42:VI:61:HIS:HE1	1.73	0.52
41:VL:60:VAL:HG21	41:VL:86:ARG:HG3	1.91	0.52
41:WD:354:CYS:O	41:WD:356:ILE:N	2.42	0.52
42:WE:305:CYS:O	42:WE:306:ASP:C	2.47	0.52
41:WF:165:ASN:HB3	41:WF:200:TYR:HE2	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:WM:106:GLY:HA3	42:WM:148:GLY:HA3	1.91	0.52
41:WN:330:MET:HB3	41:WN:349:VAL:HG11	1.91	0.52
4:1K:160:ARG:HB3	41:MD:42:LEU:HD11	1.91	0.52
9:2D:509:LEU:HD11	41:IL:270:PHE:CE2	2.44	0.52
11:2J:98:GLN:NE2	21:3T:249:LYS:O	2.43	0.52
19:3K:134:ILE:HD11	42:AG:46:ASP:HB3	1.91	0.52
20:3N:253:PRO:HD2	20:3N:256:SER:HB3	1.92	0.52
21:3T:165:ASN:ND2	42:KG:423:GLU:OE1	2.43	0.52
25:4J:262:ILE:HD13	25:4J:325:PHE:CE2	2.44	0.52
30:5A:267:ARG:HH12	42:LE:45:GLY:HA2	1.75	0.52
33:5Q:183:LEU:O	33:5Q:187:ARG:N	2.41	0.52
33:5R:49:THR:HB	33:5S:348:THR:HG23	1.91	0.52
33:5V:289:GLU:C	33:5V:291:ALA:H	2.12	0.52
34:6B:294:VAL:HG12	34:6C:413:ARG:HH12	1.74	0.52
35:6V:272:ARG:HH12	35:6V:276:VAL:HB	1.74	0.52
35:6V:272:ARG:NH1	35:6V:272:ARG:O	2.38	0.52
41:AB:152:ILE:HA	41:AB:155:ILE:HG12	1.92	0.52
42:AC:3:GLU:HA	42:AC:51:THR:HA	1.92	0.52
42:AG:241:SER:OG	42:AG:250:VAL:O	2.23	0.52
41:AJ:281:TYR:OH	41:KL:83:GLN:O	2.27	0.52
42:BE:79:ARG:NH2	42:BE:92:LEU:O	2.40	0.52
41:BF:7:LEU:HD23	41:BF:151:LEU:HD13	1.91	0.52
42:BG:173:PRO:HB3	42:BG:183:GLU:HG2	1.91	0.52
41:CD:135:LEU:HG	41:CD:137:HIS:HB3	1.91	0.52
41:DB:17:GLY:O	41:DB:21:TRP:N	2.35	0.52
42:DG:103:TYR:H	42:DG:408:TYR:HE2	1.57	0.52
41:DJ:402:GLY:O	41:DJ:403:MET:C	2.48	0.52
41:DL:17:GLY:HA2	41:DL:20:PHE:HB3	1.90	0.52
42:EC:148:GLY:O	42:EC:151:SER:OG	2.26	0.52
42:EE:69:ASP:O	42:EE:70:LEU:C	2.49	0.52
42:EE:255:PHE:O	42:EE:256:GLN:C	2.48	0.52
42:EG:219:ILE:O	42:EG:220:GLU:C	2.48	0.52
42:EK:12:ALA:HA	45:EK:501:GTP:N7	2.24	0.52
42:EK:205:ASP:O	42:EK:207:GLU:N	2.43	0.52
42:EK:247:ALA:O	42:EK:249:ASN:N	2.43	0.52
42:FC:318:LEU:O	42:FC:376:CYS:N	2.40	0.52
41:FD:21:TRP:CE3	41:FD:24:ILE:HD12	2.45	0.52
42:FE:175:PRO:O	42:FE:394:LYS:NZ	2.39	0.52
42:FE:251:ASP:OD2	42:FE:252:LEU:N	2.39	0.52
42:FG:413:MET:SD	42:FG:414:GLU:N	2.83	0.52
41:FH:151:LEU:O	41:FH:155:ILE:HG12	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:FJ:379:LYS:HE2	41:FJ:419:VAL:HG11	1.91	0.52
42:FK:88:HIS:O	42:FK:89:PRO:C	2.48	0.52
42:FM:64:ARG:HB2	42:FM:125:LEU:HB3	1.92	0.52
42:FM:235:VAL:HA	42:FM:238:ILE:HG22	1.92	0.52
41:GF:117:LEU:HB3	41:GF:121:ARG:HH12	1.74	0.52
41:GL:49:VAL:HG12	41:GL:50:TYR:CD2	2.45	0.52
41:HB:396:HIS:CE1	42:HM:263:PRO:HD3	2.44	0.52
41:HF:238:THR:HG21	41:HF:318:ARG:HD2	1.92	0.52
41:HF:314:ALA:HB3	41:HF:368:ILE:HB	1.92	0.52
42:HI:288:VAL:HA	42:HI:291:ILE:HG12	1.91	0.52
42:HI:344:VAL:HB	42:HI:346:TRP:CD1	2.45	0.52
42:HK:50:ASN:O	42:HK:64:ARG:NH2	2.30	0.52
41:IF:209:ASP:OD2	41:IF:213:ARG:NH2	2.44	0.52
41:IN:398:TYR:HB3	41:IN:408:PHE:HZ	1.75	0.52
41:JH:405:GLU:HA	41:JH:408:PHE:HB2	1.91	0.52
42:JI:70:LEU:HD23	42:JI:114:LEU:HD12	1.92	0.52
42:JM:224:TYR:HA	42:JM:227:LEU:HD23	1.91	0.52
41:KD:77:ARG:HA	41:KD:82:GLY:HA3	1.92	0.52
42:KE:262:TYR:OH	41:KF:391:ARG:O	2.25	0.52
41:KH:170:VAL:HG21	41:KH:377:LEU:HD11	1.90	0.52
42:LC:103:TYR:HB3	42:LC:408:TYR:HE2	1.75	0.52
41:LL:10:GLY:HA2	41:LL:143:THR:HG23	1.92	0.52
42:MC:147:SER:HG	42:MC:190:THR:HG1	1.55	0.52
41:MD:391:ARG:O	41:MD:392:LYS:C	2.48	0.52
42:ME:352:LYS:HA	41:MF:177:ASP:O	2.10	0.52
41:MJ:317:PHE:N	41:MJ:352:ALA:O	2.37	0.52
41:ML:51:TYR:HB3	41:ML:59:TYR:HB3	1.91	0.52
41:ML:165:ASN:HA	41:ML:198:GLU:HB2	1.92	0.52
41:MN:89:ASN:HA	41:MN:119:VAL:HG11	1.91	0.52
41:NB:324:LYS:HD3	42:NC:221:ARG:H	1.74	0.52
41:ND:193:VAL:HG12	41:ND:262:ARG:HG2	1.91	0.52
41:NF:402:GLY:O	41:NF:403:MET:C	2.49	0.52
41:NH:178:THR:HB	41:NH:181:GLU:HG3	1.92	0.52
42:NI:104:ALA:HA	42:NI:108:TYR:CD2	2.43	0.52
42:NI:274:PRO:HB2	42:NI:371:VAL:HG11	1.91	0.52
41:NJ:246:LEU:HD11	42:NK:179:THR:HG21	1.92	0.52
41:OB:134:GLN:HA	41:OB:165:ASN:O	2.10	0.52
41:OL:131:GLN:NE2	41:OL:250:LEU:HB3	2.25	0.52
42:PC:288:VAL:HG21	42:PC:323:VAL:HG13	1.91	0.52
42:PE:2:ARG:HD2	42:PE:133:GLN:HG3	1.91	0.52
41:PH:101:TRP:HZ3	41:PH:145:SER:HB2	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:PH:295:ASP:O	41:PH:296:ALA:C	2.48	0.52
41:PJ:46:ARG:HB3	41:PJ:241:ARG:HA	1.92	0.52
41:PJ:56:GLY:O	41:PJ:58:LYS:N	2.43	0.52
42:PK:401:LYS:O	42:PK:402:ARG:C	2.48	0.52
42:QG:90:GLU:HG2	42:RG:280:LYS:HD2	1.92	0.52
42:QI:313:MET:HG2	42:QI:380:ASN:HB3	1.91	0.52
42:QK:28:HIS:CE1	42:QK:49:PHE:HA	2.46	0.52
41:QL:50:TYR:HA	41:QL:62:ARG:HH21	1.73	0.52
41:RB:230:SER:O	41:RB:234:SER:N	2.41	0.52
42:RK:53:PHE:O	42:RK:64:ARG:NH1	2.43	0.52
41:RL:25:SER:HB2	41:RL:30:ILE:HG22	1.91	0.52
42:SC:75:ILE:HG23	42:SC:92:LEU:HD12	1.91	0.52
42:SK:26:LEU:HD12	42:SK:363:VAL:HG22	1.92	0.52
42:SM:72:PRO:HG3	42:SM:96:LYS:HA	1.92	0.52
42:SM:259:LEU:HD11	42:SM:316:CYS:HB2	1.91	0.52
42:TC:328:VAL:O	42:TC:332:ILE:HG12	2.09	0.52
41:TF:23:VAL:O	41:TF:27:GLU:HG3	2.11	0.52
42:TK:57:GLY:O	42:TK:58:ALA:C	2.47	0.52
42:UC:101:ASN:HA	42:UC:144:GLY:N	2.25	0.52
42:UE:219:ILE:HG13	42:UE:222:PRO:HD3	1.92	0.52
41:UJ:135:LEU:HD23	41:UJ:166:THR:HG23	1.90	0.52
41:VJ:323:MET:HB2	42:VK:223:THR:HB	1.91	0.52
42:VK:168:GLU:HG3	42:VK:201:ALA:HA	1.91	0.52
16:3C:21:TYR:O	42:VE:308:ARG:NH1	2.43	0.51
27:4R:38:VAL:HG21	27:4R:52:VAL:HG22	1.91	0.51
27:4R:45:LYS:O	27:4R:47:MET:N	2.39	0.51
30:5A:167:GLN:NE2	42:LI:279:GLU:OE1	2.40	0.51
34:6A:264:ALA:HB2	34:6B:410:GLU:HG2	1.92	0.51
34:6B:120:LEU:O	34:6B:124:THR:N	2.42	0.51
34:6G:197:GLU:O	34:6G:201:HIS:ND1	2.39	0.51
34:6L:469:ASP:O	34:6L:470:GLN:C	2.48	0.51
41:AD:334:GLN:HE22	41:AD:348:ASN:HB2	1.75	0.51
41:BB:236:VAL:HG22	41:BB:368:ILE:HD11	1.91	0.51
42:BC:319:TYR:HB3	42:BC:323:VAL:HG21	1.92	0.51
41:BD:189:VAL:O	41:BD:193:VAL:HG23	2.10	0.51
42:CC:382:THR:HG23	42:CC:432:TYR:HD1	1.75	0.51
41:CF:244:GLY:HA3	41:CF:354:CYS:HA	1.93	0.51
41:DB:149:THR:HB	41:DB:192:LEU:HD23	1.93	0.51
41:DD:372:THR:HG21	41:DD:426:GLN:HB2	1.92	0.51
42:DE:211:ASP:HA	42:DE:214:ARG:HG2	1.92	0.51
41:DH:68:LEU:O	41:DH:69:GLU:HB2	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DK:262:TYR:CE1	41:DL:393:ALA:HA	2.43	0.51
41:DL:318:ARG:HG3	41:DL:354:CYS:HB3	1.92	0.51
41:ED:290:THR:OG1	41:ED:291:GLN:N	2.43	0.51
41:EF:323:MET:HG3	42:EG:224:TYR:HD1	1.75	0.51
42:EK:206:ASN:HA	42:EK:209:ILE:HG13	1.92	0.51
42:FE:115:ILE:HD11	42:FE:156:ARG:HG3	1.92	0.51
41:FF:273:LEU:O	41:FF:292:GLN:NE2	2.43	0.51
42:FG:134:GLY:HA3	42:FG:165:SER:HB2	1.91	0.51
41:FJ:210:ILE:HD11	41:FJ:228:LEU:HD13	1.92	0.51
41:GH:156:ARG:HG2	41:GH:195:ASN:HB2	1.91	0.51
41:GJ:334:GLN:HA	41:GJ:341:PHE:HE2	1.75	0.51
41:HB:122:LYS:HZ3	41:IN:291:GLN:HB3	1.73	0.51
42:HE:54:SER:HB3	42:HE:62:VAL:HB	1.92	0.51
41:HF:54:ALA:HA	41:IF:283:ALA:HB2	1.91	0.51
42:HI:369:ALA:O	42:HI:370:LYS:C	2.49	0.51
42:HK:328:VAL:HG11	42:HK:353:VAL:HG21	1.92	0.51
41:ID:100:ASN:HD21	41:ID:397:TRP:HB3	1.74	0.51
41:IF:263:LEU:HD21	41:IF:311:LEU:HD22	1.92	0.51
42:II:85:GLN:O	41:JH:281:TYR:OH	2.28	0.51
41:IL:237:THR:HB	41:IL:240:LEU:HD12	1.91	0.51
42:IM:309:HIS:NE2	42:IM:382:THR:OG1	2.24	0.51
42:IM:317:LEU:HB3	42:IM:319:TYR:HE1	1.74	0.51
42:IM:371:VAL:HG12	42:IM:373:ARG:H	1.75	0.51
42:JG:262:TYR:HB2	42:JG:265:ILE:HG12	1.91	0.51
41:KH:258:VAL:HG23	42:KI:407:TRP:HE1	1.75	0.51
41:KJ:30:ILE:HD11	41:KJ:47:ILE:HD11	1.91	0.51
41:KL:100:ASN:HD22	41:KL:103:LYS:HD2	1.75	0.51
41:KN:316:VAL:HA	41:KN:352:ALA:HB3	1.92	0.51
41:MD:198:GLU:HG3	41:MD:266:PHE:CE2	2.45	0.51
41:ML:420:SER:HA	41:ML:423:GLN:HG2	1.93	0.51
42:MM:253:THR:HG22	41:MN:98:GLY:HA3	1.91	0.51
42:NA:413:MET:HB2	42:NA:417:GLU:HG2	1.91	0.51
42:NC:187:SER:HA	42:NC:190:THR:HG22	1.90	0.51
42:NC:352:LYS:HG3	42:NC:353:VAL:N	2.25	0.51
42:NI:402:ARG:HD3	42:NI:405:VAL:HG21	1.93	0.51
42:NK:100:ALA:O	42:NK:101:ASN:C	2.48	0.51
42:OC:9:VAL:HG23	42:OC:139:HIS:HB3	1.92	0.51
41:OJ:310:TYR:HD1	41:OJ:340:TYR:HE2	1.57	0.51
41:OL:86:ARG:NH2	41:PL:281:TYR:H	2.09	0.51
41:PB:209:ASP:HA	41:PB:212:PHE:HD1	1.75	0.51
42:PG:35:GLN:O	42:PG:36:MET:C	2.48	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:PJ:21:TRP:CE3	41:PJ:24:ILE:HD11	2.45	0.51
42:PK:115:ILE:HD11	42:PK:153:LEU:HA	1.92	0.51
41:PL:187:LEU:HD11	41:PL:398:TYR:HE1	1.75	0.51
42:QE:27:GLU:HG3	42:QE:244:PHE:CZ	2.43	0.51
41:QH:87:PRO:HG3	41:RH:278:SER:HB3	1.92	0.51
41:QH:190:HIS:CD2	41:QH:411:ALA:HA	2.45	0.51
42:QI:262:TYR:CD2	42:QI:265:ILE:HD11	2.45	0.51
42:QK:171:ILE:HG22	42:QK:206:ASN:HD21	1.75	0.51
41:RD:261:PRO:HD3	42:RE:406:HIS:ND1	2.25	0.51
41:SD:111:GLU:N	41:SD:111:GLU:OE2	2.42	0.51
41:SF:2:ARG:HB3	41:SF:131:GLN:HB2	1.92	0.51
42:SM:91:GLN:HA	42:SM:121:ARG:HG2	1.92	0.51
41:TH:255:VAL:HG12	42:TI:182:VAL:HG21	1.92	0.51
41:TL:31:ASP:HB3	41:TL:37:HIS:HD2	1.75	0.51
42:UM:141:PHE:CE2	42:UM:203:MET:HG2	2.44	0.51
42:UM:175:PRO:HG3	42:UM:390:ARG:HD2	1.93	0.51
42:VC:195:LEU:HA	42:VC:266:HIS:CE1	2.46	0.51
41:VL:10:GLY:O	41:VL:14:ASN:ND2	2.43	0.51
41:WF:172:SER:HB2	41:WF:205:GLU:HG3	1.91	0.51
41:WN:172:SER:HB2	41:WN:205:GLU:HG3	1.92	0.51
2:1F:76:ILE:HD12	42:HM:342:GLN:HB3	1.92	0.51
9:2D:575:ARG:NH2	41:IN:359:ARG:H	2.06	0.51
16:3C:26:ASP:O	42:UE:123:ARG:NH2	2.36	0.51
16:3D:242:MET:HB2	42:UC:95:GLY:HA2	1.92	0.51
19:3J:258:GLU:HG2	41:DD:276:ARG:HH12	1.75	0.51
19:3L:112:GLU:HG3	19:3L:113:GLU:OE1	2.11	0.51
30:5A:139:GLN:HE21	41:LJ:279:GLN:NE2	2.07	0.51
31:5D:142:ILE:HG23	31:5D:143:PRO:HD3	1.92	0.51
31:5G:125:HIS:C	42:OI:84:ARG:HH12	2.13	0.51
32:5O:253:LEU:HD13	32:5O:400:ARG:HE	1.75	0.51
33:5X:308:LEU:HG	33:5X:312:LYS:HE2	1.93	0.51
34:6B:213:ASP:OD2	34:6B:350:ARG:NE	2.40	0.51
34:6K:46:LEU:HD13	34:6K:70:THR:HG21	1.92	0.51
34:6L:266:ARG:HH22	35:6W:10:LYS:CE	2.24	0.51
35:6V:225:ASP:HA	35:6V:228:CYS:HB2	1.91	0.51
38:7H:185:PRO:HB3	41:ID:306:ARG:HH11	1.74	0.51
41:AF:138:SER:OG	43:AF:501:GDP:O1A	2.27	0.51
42:AK:103:TYR:HE1	42:AK:186:ASN:HB3	1.75	0.51
41:BB:286:VAL:HG21	41:BB:326:VAL:HG22	1.93	0.51
42:BE:311:LYS:N	42:BE:382:THR:OG1	2.43	0.51
42:BG:26:LEU:HD12	42:BG:363:VAL:HG12	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CC:291:ILE:HD13	42:CC:373:ARG:HD3	1.93	0.51
42:CC:292:THR:C	42:CC:294:ALA:H	2.14	0.51
42:CG:256:GLN:HG2	42:CG:260:VAL:HG21	1.91	0.51
41:CH:12:CYS:HB3	41:CH:138:SER:HB2	1.91	0.51
41:CL:6:HIS:HE1	41:CL:136:THR:HG23	1.76	0.51
42:CM:242:LEU:HD11	42:CM:251:ASP:HA	1.93	0.51
42:DC:93:ILE:HG13	42:DC:118:VAL:HG22	1.91	0.51
41:DD:47:ILE:HG12	41:DD:51:TYR:HB2	1.92	0.51
41:DF:121:ARG:NH2	41:DF:158:GLU:OE2	2.43	0.51
42:DG:242:LEU:HD11	42:DG:252:LEU:HB2	1.91	0.51
41:DH:421:GLU:O	41:DH:422:TYR:C	2.49	0.51
41:DL:315:ALA:HB3	41:DL:351:THR:HA	1.91	0.51
41:ED:109:GLY:O	41:ED:110:ALA:C	2.48	0.51
42:EE:66:VAL:HG11	42:EE:122:ILE:HG12	1.92	0.51
42:EE:89:PRO:O	42:EE:90:GLU:C	2.48	0.51
41:EF:324:LYS:CE	42:EG:222:PRO:HD2	2.40	0.51
42:EG:263:PRO:HG3	41:EH:396:HIS:HB3	1.93	0.51
41:EJ:149:THR:HG21	41:EJ:188:SER:HB2	1.92	0.51
42:EK:273:ALA:HB3	42:EK:375:VAL:HG12	1.93	0.51
41:EL:324:LYS:CE	42:EM:222:PRO:HD2	2.32	0.51
42:EM:323:VAL:HG12	42:EM:328:VAL:HG22	1.90	0.51
42:FC:156:ARG:O	42:FC:159:VAL:HG22	2.09	0.51
41:FD:128:ASP:O	41:FD:129:CYS:C	2.49	0.51
42:FE:172:TYR:CD2	42:FE:173:PRO:HD2	2.45	0.51
41:FF:198:GLU:HA	41:FF:264:HIS:HB2	1.93	0.51
42:FG:87:PHE:HB3	42:FG:92:LEU:HD21	1.92	0.51
42:FK:338:LYS:HB2	42:FK:341:ILE:HD12	1.92	0.51
42:GG:267:PHE:HE2	42:GG:428:LEU:HD21	1.74	0.51
42:GM:161:TYR:O	42:GM:162:GLY:C	2.47	0.51
42:GM:403:ALA:O	42:GM:404:PHE:C	2.49	0.51
42:HC:62:VAL:HG11	42:IC:283:HIS:O	2.10	0.51
42:HI:91:GLN:HG2	42:HI:121:ARG:HD2	1.92	0.51
42:HI:145:THR:HG23	42:HI:149:PHE:CD2	2.45	0.51
42:HM:100:ALA:O	42:HM:102:ASN:N	2.34	0.51
41:IF:247:ASN:H	42:IG:11:GLN:HE22	1.59	0.51
42:II:286:LEU:O	42:II:373:ARG:NH1	2.38	0.51
41:IJ:272:PRO:HG3	41:IJ:364:SER:HA	1.92	0.51
42:IK:344:VAL:HG12	42:IK:347:CYS:H	1.75	0.51
41:IN:209:ASP:HA	41:IN:212:PHE:CD2	2.41	0.51
42:JC:278:ALA:HA	42:JC:369:ALA:HB2	1.93	0.51
41:JF:404:ASP:OD2	41:JF:404:ASP:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:JH:292:GLN:O	41:JH:298:ASN:ND2	2.43	0.51
42:JK:100:ALA:O	42:JK:101:ASN:C	2.49	0.51
42:JK:195:LEU:HD11	42:JK:428:LEU:HD22	1.91	0.51
42:JK:242:LEU:HD11	42:JK:252:LEU:HG	1.93	0.51
42:KG:51:THR:HG21	42:KG:243:ARG:HG2	1.91	0.51
42:KG:254:GLU:HG2	41:KH:98:GLY:HA2	1.92	0.51
41:KL:290:THR:HG21	41:KL:329:GLN:HB3	1.92	0.51
41:MD:116:VAL:O	41:MD:120:VAL:HG13	2.10	0.51
42:NA:21:TRP:HZ3	42:NA:52:PHE:HB3	1.75	0.51
41:ND:286:VAL:HA	41:ND:289:LEU:HD12	1.93	0.51
42:NI:394:LYS:HA	42:NI:397:LEU:HD12	1.93	0.51
41:OB:344:TRP:O	41:OB:346:PRO:HD3	2.10	0.51
41:OH:97:ALA:O	41:OH:98:GLY:C	2.48	0.51
42:OK:239:THR:O	42:OK:243:ARG:NE	2.44	0.51
41:PB:236:VAL:HG23	41:PB:368:ILE:HG13	1.90	0.51
41:PB:289:LEU:HD22	41:PB:363:MET:HE3	1.92	0.51
41:PF:387:ALA:HA	41:PF:390:ARG:HE	1.74	0.51
42:PG:144:GLY:O	42:PG:145:THR:C	2.49	0.51
41:PH:146:GLY:O	41:PH:147:MET:C	2.46	0.51
42:PI:11:GLN:NE2	42:PI:74:VAL:HG11	2.26	0.51
42:PI:20:CYS:O	42:PI:24:TYR:HB2	2.10	0.51
42:PI:167:LEU:HD12	42:PI:200:CYS:HB2	1.93	0.51
42:PI:289:ALA:O	42:PI:293:ASN:HB2	2.10	0.51
42:QC:384:ILE:HG22	42:QC:388:TRP:HE1	1.74	0.51
42:QG:182:VAL:O	42:QG:185:TYR:N	2.39	0.51
42:QI:10:GLY:O	42:QI:13:GLY:N	2.44	0.51
42:RC:105:ARG:HA	42:RC:109:THR:HB	1.93	0.51
42:RG:262:TYR:HB2	42:RG:265:ILE:HD13	1.92	0.51
41:RH:55:THR:H	41:SH:283:ALA:HA	1.74	0.51
42:RI:312:TYR:HE2	42:RI:341:ILE:HG13	1.75	0.51
41:RJ:109:GLY:O	41:RJ:110:ALA:C	2.48	0.51
42:RK:9:VAL:HG23	42:RK:68:VAL:HG23	1.92	0.51
42:SC:8:HIS:HE1	42:SC:17:GLY:HA2	1.73	0.51
42:SE:265:ILE:HD11	42:SE:435:VAL:HG21	1.92	0.51
41:SF:107:THR:OG1	41:SF:108:GLU:N	2.42	0.51
41:SF:405:GLU:O	41:SF:406:MET:C	2.48	0.51
41:SL:293:MET:HG2	41:SL:367:PHE:HB2	1.91	0.51
42:TC:139:HIS:NE2	42:TC:168:GLU:OE2	2.37	0.51
42:TC:280:LYS:O	42:TC:284:GLU:N	2.37	0.51
42:TG:319:TYR:HB3	42:TG:323:VAL:HG21	1.92	0.51
42:TK:367:ASP:O	42:TK:368:LEU:C	2.49	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:TL:149:THR:HG23	41:TL:191:GLN:HG2	1.91	0.51
42:TM:68:VAL:HG23	42:TM:93:ILE:HB	1.93	0.51
41:UF:257:MET:HA	41:UF:312:THR:HG21	1.92	0.51
41:UH:393:ALA:O	41:UH:395:LEU:N	2.44	0.51
42:UM:265:ILE:HG21	42:UM:313:MET:HE1	1.92	0.51
42:VC:349:THR:HG21	41:VD:179:VAL:HA	1.91	0.51
42:VE:139:HIS:ND1	42:VE:140:SER:O	2.43	0.51
42:VE:254:GLU:OE2	41:VF:99:ASN:ND2	2.43	0.51
42:VI:269:LEU:HD21	42:VI:384:ILE:HD12	1.93	0.51
41:VJ:273:LEU:O	41:VJ:292:GLN:NE2	2.43	0.51
41:WF:2:ARG:HG2	41:WF:131:GLN:HG3	1.90	0.51
41:WF:331:LEU:HA	41:WF:334:GLN:HE21	1.74	0.51
41:WL:30:ILE:HD11	41:WL:47:ILE:HD11	1.92	0.51
41:WL:238:THR:HG21	41:WL:318:ARG:HG2	1.92	0.51
41:WN:273:LEU:O	41:WN:292:GLN:NE2	2.36	0.51
8:1Z:6:PHE:HB2	42:WI:117:LEU:HD13	1.91	0.51
9:2D:469:ASN:ND2	38:7H:63:PHE:HB2	2.25	0.51
9:2D:573:ILE:HD13	41:IN:270:PHE:CE1	2.43	0.51
20:3O:644:ILE:HD12	20:3O:647:LEU:HD23	1.92	0.51
21:3S:127:ILE:HG22	21:3S:138:ASP:HA	1.91	0.51
22:4A:192:PHE:CD1	42:DK:221:ARG:HB3	2.45	0.51
27:4T:254:CYS:SG	27:4T:255:LEU:N	2.81	0.51
32:5N:255:ARG:HH22	33:5S:237:ILE:HG21	1.75	0.51
33:5R:333:GLN:HA	33:5R:336:TYR:HD1	1.76	0.51
33:5W:152:GLN:HG2	35:6U:429:LYS:NZ	2.24	0.51
34:6B:260:ASP:O	34:6C:410:GLU:HG3	2.10	0.51
34:6F:173:GLU:OE1	34:6F:322:ARG:NH1	2.43	0.51
34:6H:296:VAL:H	34:6H:299:SER:HB2	1.76	0.51
35:6W:127:GLU:HB3	35:6W:279:ARG:NH2	2.24	0.51
42:AK:2:ARG:O	42:AK:51:THR:HA	2.09	0.51
41:BF:103:LYS:HG2	41:BF:108:GLU:HG2	1.93	0.51
41:BJ:319:GLY:HA2	41:BJ:357:PRO:HD3	1.92	0.51
41:CB:24:ILE:HG13	41:CB:25:SER:N	2.24	0.51
41:CB:156:ARG:NH2	41:CB:162:ARG:O	2.39	0.51
41:CB:311:LEU:HD12	41:CB:342:VAL:HG21	1.91	0.51
41:CJ:61:PRO:HD2	41:CJ:84:ILE:O	2.10	0.51
42:CM:167:LEU:HB3	42:CM:202:PHE:HE2	1.75	0.51
41:DD:1:MET:SD	42:DE:96:LYS:NZ	2.67	0.51
41:DH:389:PHE:HE2	41:DH:409:THR:HG22	1.75	0.51
42:DI:71:GLU:HB3	42:DI:73:THR:HG22	1.93	0.51
41:DJ:87:PRO:HG2	41:EJ:276:ARG:CZ	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DJ:391:ARG:O	41:DJ:393:ALA:N	2.44	0.51
42:DK:250:VAL:HG12	42:DK:354:GLY:HA3	1.93	0.51
41:ED:65:LEU:HD12	41:ED:65:LEU:H	1.74	0.51
41:ED:261:PRO:O	41:ED:262:ARG:HB2	2.10	0.51
42:EG:9:VAL:HG21	42:EG:139:HIS:HB3	1.92	0.51
41:EL:255:VAL:HG21	42:EM:100:ALA:HB1	1.90	0.51
42:EM:16:ILE:HA	42:EM:228:ASN:OD1	2.10	0.51
42:FC:273:ALA:HB3	42:FC:375:VAL:HG13	1.91	0.51
41:FD:56:GLY:O	41:FD:57:GLY:C	2.48	0.51
41:FH:166:THR:HB	41:FH:199:THR:HA	1.91	0.51
41:FL:25:SER:O	41:FL:26:ASP:C	2.48	0.51
41:FL:64:VAL:HG21	41:FL:120:VAL:HG22	1.93	0.51
41:FL:293:MET:HE2	41:FL:367:PHE:HB2	1.92	0.51
42:GE:223:THR:HG23	42:GE:225:THR:H	1.75	0.51
42:GI:192:HIS:ND1	42:GI:424:ASP:OD2	2.33	0.51
42:GK:405:VAL:HG13	42:GK:418:PHE:HE2	1.76	0.51
42:HG:173:PRO:HG3	42:HG:187:SER:HB2	1.92	0.51
41:HJ:112:LEU:HB3	41:HJ:147:MET:HE1	1.93	0.51
42:IE:29:GLY:O	42:IE:30:ILE:C	2.47	0.51
42:II:244:PHE:CD1	42:II:358:GLN:HG3	2.45	0.51
42:IK:207:GLU:HA	42:IK:210:TYR:CD1	2.45	0.51
42:IM:28:HIS:CE1	42:IM:243:ARG:HH11	2.28	0.51
41:JF:44:LEU:HD11	41:JF:59:TYR:CZ	2.45	0.51
41:KD:229:VAL:O	41:KD:233:MET:HG3	2.10	0.51
42:KE:194:THR:O	42:KE:266:HIS:NE2	2.38	0.51
42:KI:264:ARG:NH1	42:KI:431:ASP:OD2	2.43	0.51
41:KL:218:THR:HG23	41:KL:219:THR:HG22	1.92	0.51
41:KL:324:LYS:HB3	42:KM:222:PRO:HD2	1.92	0.51
42:LM:254:GLU:HG2	41:LN:98:GLY:HA2	1.92	0.51
41:MD:60:VAL:HG11	41:MD:86:ARG:HB2	1.90	0.51
42:ME:346:TRP:HZ2	42:ME:435:VAL:HG13	1.75	0.51
42:MG:306:ASP:HB3	42:MG:309:HIS:HD2	1.75	0.51
41:ML:74:ASP:HA	41:ML:77:ARG:HG2	1.91	0.51
42:MM:271:THR:OG1	42:MM:272:TYR:N	2.43	0.51
42:NE:60:LYS:HE3	42:NE:88:HIS:NE2	2.25	0.51
42:NE:262:TYR:HE1	41:NF:393:ALA:HA	1.74	0.51
42:NG:332:ILE:HG21	41:NH:175:VAL:HG13	1.92	0.51
41:NH:159:TYR:HB3	41:NH:162:ARG:HG3	1.92	0.51
42:NI:60:LYS:HG2	42:OI:282:TYR:CE2	2.44	0.51
41:OB:322:SER:HB3	41:OB:325:GLU:HG3	1.92	0.51
41:OB:358:PRO:HG2	41:OB:364:SER:HB3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:OC:260:VAL:HG21	42:OC:266:HIS:HB3	1.92	0.51
41:OJ:211:CYS:HA	41:OJ:215:LEU:HD12	1.92	0.51
42:PA:17:GLY:O	42:PA:18:ASN:C	2.48	0.51
42:PE:260:VAL:HB	41:PF:397:TRP:HH2	1.75	0.51
42:PE:336:LYS:HD2	42:PE:351:PHE:CZ	2.42	0.51
42:PG:432:TYR:HA	42:PG:435:VAL:HG22	1.92	0.51
41:PH:47:ILE:HG12	41:PH:59:TYR:CZ	2.45	0.51
42:QC:48:SER:HB2	42:QC:243:ARG:HB3	1.92	0.51
41:QD:380:ARG:HA	41:QD:383:GLU:HG3	1.90	0.51
42:QE:104:ALA:HB2	42:QE:411:GLU:HB3	1.91	0.51
41:QJ:246:LEU:HG	45:QK:501:GTP:O2'	2.10	0.51
41:QJ:312:THR:HG21	42:QK:404:PHE:HZ	1.75	0.51
42:RE:6:SER:HB3	42:RE:8:HIS:CD2	2.46	0.51
42:RE:392:ASP:OD1	42:RE:422:ARG:NH1	2.44	0.51
41:RF:329:GLN:HA	41:RF:332:ASN:HD22	1.76	0.51
41:RH:31:ASP:HB2	41:RH:34:GLY:H	1.76	0.51
42:RK:188:ILE:HD11	42:RK:391:LEU:HB3	1.92	0.51
41:SD:103:LYS:HB2	41:SD:108:GLU:HG2	1.92	0.51
41:SF:223:GLY:O	41:SF:227:HIS:N	2.43	0.51
42:SI:270:ALA:O	42:SI:302:MET:HB2	2.10	0.51
42:TK:188:ILE:HG22	42:TK:421:ALA:HB1	1.91	0.51
41:TL:21:TRP:HA	41:TL:24:ILE:HG12	1.92	0.51
42:TM:324:VAL:HG12	42:TM:326:LYS:H	1.76	0.51
42:UM:30:ILE:HD12	42:UM:53:PHE:CD1	2.46	0.51
41:VD:299:MET:O	41:VD:301:ALA:N	2.36	0.51
42:VK:265:ILE:HG21	42:VK:313:MET:HE1	1.92	0.51
41:WF:171:PRO:HB2	41:WF:381:ILE:HD11	1.91	0.51
41:WF:344:TRP:CH2	41:WF:425:TYR:HB3	2.45	0.51
42:WK:71:GLU:HB3	42:WK:98:ASP:HB3	1.93	0.51
2:1E:190:TYR:HD2	26:4L:247:ARG:HH22	1.55	0.51
4:1K:88:GLN:NE2	41:JD:282:ARG:O	2.44	0.51
7:1U:237:ARG:NH1	42:JK:40:LYS:HB2	2.25	0.51
19:3L:129:ASP:HB2	19:3L:153:ARG:HH12	1.76	0.51
22:4A:190:PHE:CE1	41:DJ:283:ALA:HB1	2.46	0.51
22:4C:89:VAL:HG12	22:4C:91:GLY:H	1.76	0.51
24:4G:306:ARG:NH2	42:HI:364:PRO:HB2	2.26	0.51
27:4R:100:ILE:HA	27:4R:103:LEU:HD12	1.93	0.51
31:5G:3:ASN:OD1	31:5G:4:GLU:N	2.44	0.51
31:5J:25:THR:O	31:5J:29:ALA:N	2.43	0.51
33:5S:77:MET:O	33:5S:79:ASP:N	2.43	0.51
33:5S:193:ASN:O	33:5S:195:THR:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:6B:441:ALA:O	34:6B:444:THR:N	2.44	0.51
34:6H:202:ARG:NH2	34:6H:216:GLU:OE2	2.43	0.51
34:6M:302:LYS:NZ	34:6M:305:ASP:OD2	2.42	0.51
35:6Q:257:TRP:CH2	35:6R:366:VAL:HG12	2.46	0.51
39:7K:72:ARG:HD2	39:7K:75:ARG:HD3	1.92	0.51
42:AC:103:TYR:HB3	42:AC:408:TYR:HE2	1.75	0.51
42:AC:182:VAL:HG13	42:AC:185:TYR:HD2	1.75	0.51
42:BE:188:ILE:HG23	42:BE:425:MET:HG3	1.93	0.51
42:BK:42:ILE:HG13	42:BK:43:GLY:H	1.75	0.51
41:CD:42:LEU:HD22	41:CD:356:ILE:HG13	1.92	0.51
42:CE:346:TRP:HB3	41:CF:391:ARG:HG3	1.93	0.51
42:CI:241:SER:HA	42:CI:356:ASN:HD22	1.74	0.51
41:DB:19:LYS:HE3	41:DB:227:HIS:HB2	1.92	0.51
42:DE:7:VAL:HG23	42:DE:137:ILE:HG12	1.92	0.51
41:DJ:260:PHE:HA	42:DK:406:HIS:CE1	2.45	0.51
42:EK:10:GLY:O	42:EK:11:GLN:C	2.48	0.51
42:EK:106:GLY:N	42:EK:109:THR:O	2.44	0.51
41:FD:293:MET:HA	41:FD:367:PHE:CE2	2.46	0.51
42:FE:306:ASP:OD2	42:FE:308:ARG:HG2	2.11	0.51
41:FH:235:GLY:HA2	41:FH:238:THR:HB	1.92	0.51
41:FH:334:GLN:HA	41:FH:341:PHE:HD2	1.76	0.51
42:FK:79:ARG:O	42:FK:84:ARG:HB3	2.10	0.51
41:FL:186:THR:HG21	41:FL:385:PHE:HB2	1.92	0.51
42:GC:332:ILE:HG21	41:GD:175:VAL:HG11	1.92	0.51
42:HG:261:PRO:HB2	42:HG:346:TRP:HH2	1.74	0.51
41:HH:341:PHE:HD1	41:HH:348:ASN:HD21	1.58	0.51
42:HI:123:ARG:HA	42:HI:161:TYR:OH	2.09	0.51
41:HJ:205:GLU:HA	41:HJ:208:TYR:HD2	1.73	0.51
42:HM:111:GLY:C	42:HM:113:GLU:H	2.14	0.51
42:IG:31:GLN:HG3	42:IG:37:PRO:HA	1.91	0.51
41:IH:248:ALA:HA	41:IH:252:LYS:HE3	1.93	0.51
42:II:338:LYS:HG2	42:II:340:THR:HG22	1.92	0.51
41:IJ:105:HIS:HE1	41:IJ:191:GLN:OE1	1.93	0.51
42:JM:70:LEU:HD12	42:JM:99:ALA:HB2	1.92	0.51
41:LL:226:ASN:OD1	43:LL:501:GDP:N1	2.36	0.51
41:MN:313:VAL:HB	41:MN:349:VAL:HA	1.92	0.51
42:NC:381:THR:C	42:NC:383:ALA:H	2.13	0.51
41:ND:220:PRO:O	41:ND:221:THR:C	2.49	0.51
42:NI:195:LEU:HD12	42:NI:266:HIS:HE1	1.75	0.51
42:NI:209:ILE:HB	42:NI:227:LEU:HD12	1.93	0.51
41:NL:178:THR:HB	41:NL:181:GLU:HG3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:OF:303:CYS:SG	41:OF:380:ARG:NH2	2.83	0.51
42:PA:60:LYS:HE3	42:PA:86:LEU:HA	1.93	0.51
41:PD:347:ASN:O	42:PE:181:VAL:HG13	2.10	0.51
42:PE:36:MET:O	42:PE:37:PRO:C	2.47	0.51
42:PE:250:VAL:HG23	42:PE:354:GLY:HA3	1.91	0.51
41:PJ:285:THR:O	41:PJ:286:VAL:C	2.46	0.51
42:QC:4:CYS:HB3	42:QC:52:PHE:HE1	1.75	0.51
41:QH:25:SER:O	41:QH:29:GLY:N	2.44	0.51
41:QH:48:ASN:O	41:QH:49:VAL:C	2.48	0.51
41:QH:186:THR:HG21	41:QH:385:PHE:HB2	1.93	0.51
42:QK:36:MET:O	42:QK:37:PRO:C	2.48	0.51
42:RC:399:TYR:O	42:RC:402:ARG:NH2	2.44	0.51
41:RD:385:PHE:HZ	41:RD:408:PHE:HB3	1.75	0.51
42:RE:169:PHE:HE2	42:RE:235:VAL:HA	1.75	0.51
41:RF:268:PRO:HD2	41:RF:301:ALA:HB2	1.92	0.51
42:RG:319:TYR:CE2	42:RG:328:VAL:HG22	2.45	0.51
42:RK:209:ILE:HD11	42:RK:231:ILE:HD11	1.92	0.51
41:RL:270:PHE:HD2	41:RL:273:LEU:HD22	1.75	0.51
41:SD:170:VAL:HG11	41:SD:377:LEU:HD23	1.92	0.51
42:SE:387:ALA:HA	42:SE:390:ARG:HB3	1.91	0.51
41:SH:54:ALA:HA	41:TH:283:ALA:HB2	1.92	0.51
42:SI:274:PRO:HB2	42:SI:371:VAL:HG11	1.91	0.51
41:TH:392:LYS:NZ	41:TH:405:GLU:OE1	2.36	0.51
41:TJ:375:GLN:HG3	41:TJ:379:LYS:NZ	2.26	0.51
41:TL:324:LYS:O	41:TL:328:GLU:N	2.30	0.51
41:UH:206:ALA:HB2	41:UH:302:ALA:HB2	1.93	0.51
41:UJ:5:VAL:HG22	41:UJ:62:ARG:HD3	1.92	0.51
41:UJ:130:LEU:O	41:UJ:162:ARG:NE	2.36	0.51
42:UM:203:MET:HE1	42:UM:388:TRP:HE1	1.74	0.51
42:VG:391:LEU:HD23	42:VG:394:LYS:HE3	1.91	0.51
41:VH:236:VAL:HG22	41:VH:368:ILE:HD11	1.93	0.51
41:VJ:424:GLN:HG2	41:VJ:425:TYR:CZ	2.46	0.51
42:VK:163:LYS:O	42:VK:164:LYS:C	2.49	0.51
42:VK:401:LYS:O	42:VK:402:ARG:C	2.49	0.51
41:VL:170:VAL:HG11	41:VL:377:LEU:HD21	1.92	0.51
41:WJ:62:ARG:HG3	41:WJ:123:GLU:OE2	2.11	0.51
42:WK:195:LEU:HD11	42:WK:264:ARG:HB3	1.92	0.51
41:WN:121:ARG:NH1	41:WN:158:GLU:OE1	2.43	0.51
9:2D:575:ARG:NH2	41:IN:361:LEU:HB2	2.25	0.51
11:2L:205:ARG:NH1	42:UG:370:LYS:O	2.43	0.51
11:2L:256:ARG:HH22	42:UE:285:GLN:HA	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:3C:168:ASP:HA	42:VK:339:ARG:NE	2.25	0.51
22:3X:107:CYS:SG	22:3X:108:SER:N	2.83	0.51
25:4J:123:LEU:HD23	25:4J:309:VAL:HG21	1.92	0.51
27:4Q:40:GLU:OE1	41:AF:306:ARG:NH1	2.43	0.51
27:4T:89:SER:HA	41:WN:94:GLN:HB3	1.93	0.51
30:5A:313:ARG:NH1	41:LD:277:GLY:O	2.44	0.51
31:5D:115:ARG:HH11	31:5D:119:PRO:HB2	1.75	0.51
33:5R:158:ALA:HB2	33:5R:243:ILE:HD11	1.93	0.51
33:5V:328:GLU:OE1	33:5W:182:THR:OG1	2.29	0.51
34:6H:371:GLU:HA	34:6H:374:GLN:HB2	1.91	0.51
34:6K:167:MET:SD	34:6K:251:GLN:HB3	2.51	0.51
35:6S:168:VAL:O	35:6S:170:ASP:N	2.43	0.51
42:AI:99:ALA:O	42:AI:100:ALA:C	2.49	0.51
42:BG:306:ASP:OD1	42:BG:309:HIS:ND1	2.44	0.51
42:CG:88:HIS:CD2	42:CG:90:GLU:H	2.29	0.51
41:CH:311:LEU:HD23	41:CH:342:VAL:HG21	1.92	0.51
41:CJ:21:TRP:CZ2	41:CJ:63:ALA:HB2	2.45	0.51
41:CL:313:VAL:HG12	41:CL:369:GLY:HA2	1.92	0.51
41:DH:206:ALA:O	41:DH:210:ILE:HG13	2.10	0.51
42:DI:201:ALA:HB3	42:DI:267:PHE:CD1	2.45	0.51
42:DK:136:LEU:HD22	42:DK:138:PHE:HE1	1.76	0.51
41:DL:319:GLY:HA2	41:DL:357:PRO:HD3	1.91	0.51
41:EF:334:GLN:NE2	41:EF:349:VAL:HG13	2.22	0.51
42:EG:388:TRP:HB3	42:EG:425:MET:SD	2.50	0.51
42:EK:402:ARG:HG3	42:EK:405:VAL:HG11	1.92	0.51
42:EM:305:CYS:O	42:EM:306:ASP:C	2.49	0.51
41:FD:107:THR:O	41:FD:108:GLU:C	2.48	0.51
41:FD:116:VAL:O	41:FD:120:VAL:HG23	2.11	0.51
42:FE:216:ASN:HB2	42:FE:276:ILE:HD12	1.91	0.51
41:FF:20:PHE:HA	41:FF:230:SER:HB2	1.92	0.51
42:FI:88:HIS:HB2	42:FI:91:GLN:NE2	2.26	0.51
42:GM:110:ILE:O	42:GM:111:GLY:C	2.48	0.51
42:GM:145:THR:HG22	45:GM:501:GTP:O3B	2.11	0.51
42:HG:256:GLN:O	42:HG:260:VAL:HG22	2.11	0.51
41:HH:103:LYS:HB2	41:HH:401:GLU:HG2	1.91	0.51
42:HI:70:LEU:HB2	42:HI:149:PHE:CZ	2.45	0.51
42:HI:106:GLY:HA2	42:HI:149:PHE:CE1	2.45	0.51
42:HI:171:ILE:HA	42:HI:204:VAL:O	2.10	0.51
41:HJ:116:VAL:HG11	41:HJ:151:LEU:HD21	1.92	0.51
41:HJ:320:ARG:HH11	41:HJ:320:ARG:HA	1.74	0.51
42:HM:323:VAL:HB	42:HM:355:ILE:HG23	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:ID:86:ARG:HA	42:JC:283:HIS:HE1	1.75	0.51
41:JD:246:LEU:HD11	45:JE:501:GTP:H5''	1.93	0.51
41:JD:255:VAL:HG12	42:JE:182:VAL:HG21	1.92	0.51
41:JF:204:ASN:ND2	43:JF:501:GDP:O2'	2.43	0.51
41:KD:36:TYR:OH	41:KD:40:SER:O	2.27	0.51
42:KI:102:ASN:HB3	42:KI:105:ARG:HB2	1.92	0.51
42:KM:214:ARG:HH21	42:KM:215:ARG:HB2	1.75	0.51
41:LN:282:ARG:HG2	41:LN:283:ALA:H	1.75	0.51
42:MC:195:LEU:HG	42:MC:266:HIS:HE1	1.74	0.51
41:MD:251:ARG:C	41:MD:253:LEU:H	2.13	0.51
41:MF:324:LYS:HE2	42:MG:221:ARG:HA	1.93	0.51
42:MG:66:VAL:HG21	42:MG:122:ILE:HG12	1.90	0.51
41:ML:167:PHE:CE2	41:ML:233:MET:HG2	2.46	0.51
41:MN:27:GLU:HG3	41:MN:242:PHE:HE2	1.75	0.51
42:NA:140:SER:O	42:NA:141:PHE:C	2.48	0.51
41:NB:97:ALA:O	41:NB:98:GLY:C	2.48	0.51
42:OC:31:GLN:HG2	42:OC:33:ASP:H	1.76	0.51
41:OD:138:SER:HA	41:OD:169:VAL:H	1.75	0.51
42:PC:27:GLU:HA	42:PC:361:THR:HG21	1.92	0.51
41:PF:323:MET:HG3	42:PG:224:TYR:CD1	2.46	0.51
42:PG:107:HIS:HA	42:PG:152:LEU:HG	1.93	0.51
41:PH:47:ILE:HG12	41:PH:59:TYR:CE2	2.46	0.51
42:PK:100:ALA:O	42:PK:101:ASN:C	2.48	0.51
41:QB:270:PHE:O	41:QB:298:ASN:ND2	2.40	0.51
42:QC:388:TRP:O	42:QC:392:ASP:N	2.43	0.51
41:QL:102:ALA:O	41:QL:103:LYS:C	2.49	0.51
41:RF:100:ASN:HB3	41:RF:103:LYS:HB2	1.93	0.51
41:RF:259:PRO:HG2	41:RF:311:LEU:HD23	1.92	0.51
41:RJ:55:THR:HG22	41:SJ:284:LEU:H	1.75	0.51
42:RK:172:TYR:HB2	42:RK:203:MET:SD	2.51	0.51
41:SH:267:MET:HB3	41:SH:299:MET:CE	2.38	0.51
42:SI:35:GLN:O	42:SI:36:MET:C	2.48	0.51
41:TH:245:GLN:HB2	41:TH:353:VAL:HB	1.92	0.51
41:UF:351:THR:HG22	42:UG:179:THR:HB	1.92	0.51
41:UH:87:PRO:HD3	41:VH:281:TYR:HE2	1.74	0.51
42:UM:1:MET:HG3	42:UM:2:ARG:HD3	1.92	0.51
42:UM:8:HIS:CD2	42:UM:17:GLY:HA3	2.46	0.51
42:VC:213:CYS:HA	42:VC:217:LEU:HB2	1.92	0.51
42:VC:274:PRO:HB2	42:VC:371:VAL:HG21	1.90	0.51
41:VF:252:LYS:NZ	42:VG:101:ASN:OD1	2.34	0.51
42:WM:228:ASN:OD1	45:WM:501:GTP:N1	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1K:121:HIS:O	42:IE:1:MET:HB2	2.09	0.51
5:1N:32:ILE:HG12	41:KD:380:ARG:HH11	1.74	0.51
5:1P:46:ARG:HG3	42:KK:264:ARG:HG3	1.92	0.51
19:3K:164:HIS:CE1	19:3K:165:TRP:NE1	2.79	0.51
19:3K:185:ASP:OD1	19:3K:186:CYS:N	2.42	0.51
20:3O:646:ARG:NE	41:ED:38:GLY:H	2.07	0.51
20:3P:258:ARG:NE	41:DJ:277:GLY:HA3	2.24	0.51
27:4Q:154:LYS:NZ	41:AF:413:SER:HB3	2.26	0.51
32:5L:361:GLU:OE2	32:5M:34:SER:HA	2.10	0.51
32:5M:277:LYS:HA	32:5M:280:LEU:HG	1.93	0.51
34:6B:173:GLU:HB3	34:6B:322:ARG:HD2	1.93	0.51
34:6F:280:GLY:HA3	35:6U:40:GLY:H	1.75	0.51
34:6M:202:ARG:HH12	34:6M:215:VAL:CG1	2.21	0.51
35:6R:166:ASP:OD1	35:6R:419:LYS:NZ	2.44	0.51
35:6T:159:ARG:O	35:6T:162:ARG:NH1	2.43	0.51
38:7H:63:PHE:HB3	42:IK:214:ARG:HH22	1.74	0.51
41:AD:289:LEU:HD11	41:AD:363:MET:HG3	1.92	0.51
41:AD:425:TYR:HA	41:AD:428:ALA:HB2	1.91	0.51
42:AI:346:TRP:CE2	41:AJ:391:ARG:NH1	2.79	0.51
41:BD:138:SER:O	41:BD:139:LEU:C	2.48	0.51
41:BF:117:LEU:HA	41:BF:120:VAL:HG12	1.93	0.51
41:BF:317:PHE:HB2	41:BF:353:VAL:HG22	1.92	0.51
42:BI:412:GLY:O	42:BI:413:MET:C	2.47	0.51
41:BJ:171:PRO:HB3	41:BJ:181:GLU:OE2	2.10	0.51
42:BK:50:ASN:O	42:BK:64:ARG:NH1	2.40	0.51
42:CC:84:ARG:O	42:CC:85:GLN:C	2.48	0.51
41:CD:318:ARG:HD3	41:CD:364:SER:HB3	1.93	0.51
42:CK:123:ARG:NH1	42:CK:160:ASP:OD1	2.44	0.51
41:DB:378:PHE:HA	41:DB:381:ILE:HB	1.91	0.51
41:DD:27:GLU:OE1	41:DD:241:ARG:NH1	2.43	0.51
41:DD:317:PHE:N	41:DD:352:ALA:O	2.43	0.51
41:DF:23:VAL:O	41:DF:27:GLU:N	2.39	0.51
42:DG:205:ASP:OD1	42:DG:206:ASN:N	2.44	0.51
41:DH:31:ASP:C	41:DH:33:THR:H	2.14	0.51
41:DH:331:LEU:HB2	42:DI:177:VAL:HG21	1.92	0.51
42:DK:357:TYR:O	42:DK:358:GLN:C	2.48	0.51
42:DM:177:VAL:HG12	42:DM:207:GLU:OE1	2.11	0.51
42:EG:217:LEU:HD11	42:EG:368:LEU:HG	1.92	0.51
42:EI:107:HIS:HD1	42:EI:108:TYR:HD2	1.55	0.51
41:EJ:234:SER:O	41:EJ:241:ARG:NH2	2.44	0.51
41:EJ:270:PHE:CE1	41:EJ:272:PRO:HD2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:EL:326:VAL:O	41:EL:330:MET:HG2	2.10	0.51
42:FI:65:ALA:O	42:FI:91:GLN:HG3	2.10	0.51
42:FK:187:SER:O	42:FK:190:THR:N	2.43	0.51
41:FL:10:GLY:HA2	41:FL:143:THR:HB	1.93	0.51
41:FL:298:ASN:O	41:FL:299:MET:C	2.49	0.51
42:GC:107:HIS:HA	42:GC:152:LEU:HD23	1.93	0.51
42:GE:50:ASN:OD1	42:GE:51:THR:N	2.43	0.51
42:GI:324:VAL:HG11	41:GJ:220:PRO:HD2	1.92	0.51
41:GJ:61:PRO:HD2	41:GJ:84:ILE:O	2.11	0.51
42:GM:319:TYR:CD2	42:GM:323:VAL:HG11	2.46	0.51
42:HG:254:GLU:OE2	41:HH:99:ASN:HB2	2.10	0.51
41:HH:199:THR:HB	41:HH:265:PHE:HD1	1.75	0.51
41:HL:193:VAL:HG12	41:HL:265:PHE:HE1	1.75	0.51
42:IG:192:HIS:ND1	42:IG:424:ASP:OD1	2.37	0.51
41:IH:87:PRO:HG2	42:JG:280:LYS:HG2	1.93	0.51
42:II:93:ILE:HD11	42:II:121:ARG:HG3	1.92	0.51
42:II:198:SER:OG	42:II:266:HIS:NE2	2.44	0.51
42:II:242:LEU:HD11	42:II:252:LEU:HB2	1.92	0.51
41:IL:101:TRP:HD1	41:IL:398:TYR:HE2	1.58	0.51
42:IM:137:ILE:HB	42:IM:168:GLU:HG2	1.93	0.51
42:IM:259:LEU:HD13	42:IM:316:CYS:SG	2.50	0.51
42:KM:323:VAL:HG13	42:KM:373:ARG:HG2	1.91	0.51
41:LD:344:TRP:HH2	41:LD:425:TYR:HA	1.74	0.51
42:LE:278:ALA:HA	42:LE:369:ALA:HB2	1.92	0.51
42:MC:415:GLU:N	42:MC:415:GLU:OE1	2.44	0.51
41:MD:258:VAL:HG23	42:ME:407:TRP:HE1	1.75	0.51
42:MI:116:ASP:N	42:MI:116:ASP:OD1	2.43	0.51
41:MJ:274:THR:HG21	41:MJ:279:GLN:HG3	1.93	0.51
41:ML:223:GLY:HA2	41:ML:226:ASN:HD22	1.76	0.51
42:MM:139:HIS:NE2	42:MM:168:GLU:OE2	2.38	0.51
42:MM:204:VAL:HG13	42:MM:209:ILE:HD11	1.92	0.51
42:OG:36:MET:HB2	42:OG:61:HIS:HE1	1.76	0.51
41:OJ:1:MET:HA	42:OK:96:LYS:HZ2	1.75	0.51
42:OK:5:ILE:HD11	42:OK:125:LEU:HD13	1.92	0.51
41:OL:113:VAL:HA	41:OL:116:VAL:HG22	1.92	0.51
41:OL:211:CYS:HB2	41:OL:217:LEU:HD12	1.92	0.51
42:PC:35:GLN:HE22	42:PC:59:GLY:HA3	1.76	0.51
41:PF:100:ASN:HD21	41:PF:103:LYS:HG2	1.75	0.51
41:PF:197:ASP:O	41:PF:264:HIS:HB2	2.11	0.51
41:PF:326:VAL:O	41:PF:327:ASP:C	2.49	0.51
42:PG:166:LYS:O	42:PG:168:GLU:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:PG:392:ASP:C	42:PG:394:LYS:N	2.63	0.51
42:PI:117:LEU:HD12	42:PI:121:ARG:HH12	1.76	0.51
42:PI:313:MET:HG3	42:PI:380:ASN:HB3	1.92	0.51
42:QC:70:LEU:HD13	42:QC:114:LEU:HD22	1.92	0.51
41:QD:68:LEU:HD12	41:QD:143:THR:HG22	1.93	0.51
42:QG:143:GLY:O	42:QG:186:ASN:ND2	2.34	0.51
42:QI:65:ALA:H	42:QI:91:GLN:HE21	1.58	0.51
42:QI:291:ILE:HG23	42:QI:375:VAL:CG2	2.40	0.51
41:RB:21:TRP:HB3	41:RB:81:PHE:CE2	2.44	0.51
41:RD:215:LEU:O	41:RD:217:LEU:N	2.44	0.51
42:RE:195:LEU:HD12	42:RE:267:PHE:HE2	1.75	0.51
41:RF:73:MET:HB2	41:RF:92:PHE:CG	2.46	0.51
41:RL:289:LEU:HD22	41:RL:363:MET:HG2	1.92	0.51
41:SH:3:GLU:HA	41:SH:49:VAL:HG23	1.93	0.51
41:SL:27:GLU:HA	41:SL:359:ARG:HG3	1.92	0.51
42:TC:238:ILE:HG22	42:TC:318:LEU:HG	1.91	0.51
42:TC:433:GLU:O	42:TC:437:MET:N	2.43	0.51
41:TH:253:LEU:HA	41:TH:256:ASN:OD1	2.11	0.51
42:TM:156:ARG:HA	42:TM:159:VAL:HG12	1.93	0.51
41:UL:135:LEU:HD11	41:UL:137:HIS:HB3	1.93	0.51
42:UM:272:TYR:HD2	42:UM:275:VAL:HG22	1.76	0.51
41:VD:236:VAL:HG22	41:VD:368:ILE:HD11	1.92	0.51
41:VF:224:ASP:OD2	41:VF:224:ASP:N	2.42	0.51
42:VI:2:ARG:NH1	42:VI:50:ASN:OD1	2.44	0.51
42:VI:121:ARG:NH1	42:VI:121:ARG:O	2.43	0.51
42:VK:401:LYS:O	42:VK:403:ALA:N	2.44	0.51
42:VK:417:GLU:HA	42:VK:420:GLU:HG3	1.93	0.51
42:VM:317:LEU:HD22	42:VM:332:ILE:HD11	1.91	0.51
42:WC:385:ALA:HA	42:WC:388:TRP:HD1	1.76	0.51
41:WH:358:PRO:HD2	41:WH:364:SER:HB3	1.93	0.51
41:WL:293:MET:HG2	41:WL:367:PHE:HB2	1.93	0.51
41:WN:105:HIS:HA	41:WN:150:LEU:HD22	1.92	0.51
9:2D:391:GLN:NE2	25:4I:332:GLU:OE1	2.43	0.51
10:2F:165:GLY:O	42:VE:79:ARG:NH1	2.44	0.51
22:3X:179:SER:OG	42:DC:218:ASP:OD1	2.28	0.51
28:4V:132:PRO:HD3	42:HC:338:LYS:NZ	2.25	0.51
31:5E:18:ILE:HA	31:5E:21:GLN:HB2	1.92	0.51
34:6A:222:GLU:HA	34:6A:339:GLN:HG3	1.92	0.51
34:6C:278:SER:O	34:6C:279:ASP:C	2.48	0.51
34:6M:142:SER:HA	34:6N:419:ARG:HD2	1.92	0.51
41:AD:63:ALA:O	41:AD:89:ASN:ND2	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:AF:152:ILE:HG21	41:AF:196:THR:HG22	1.92	0.51
42:AG:136:LEU:HD22	42:AG:169:PHE:HE1	1.75	0.51
42:AI:208:ALA:HB2	42:AI:304:LYS:HG2	1.92	0.51
41:AL:89:ASN:HA	41:AL:119:VAL:HG11	1.92	0.51
41:AL:215:LEU:O	41:AL:216:LYS:C	2.48	0.51
42:BC:88:HIS:HD2	42:CC:283:HIS:CB	2.23	0.51
41:BD:324:LYS:HD2	42:BE:222:PRO:HD2	1.92	0.51
41:BH:173:PRO:HD2	41:BH:205:GLU:OE2	2.11	0.51
41:BH:293:MET:HG3	41:BH:367:PHE:HB2	1.93	0.51
42:BK:258:ASN:HB2	41:BL:179:VAL:HG12	1.92	0.51
42:CC:321:GLY:HA3	42:CC:373:ARG:HA	1.92	0.51
41:CH:149:THR:HA	41:CH:152:ILE:HG12	1.93	0.51
42:CI:107:HIS:HA	42:CI:152:LEU:HD23	1.93	0.51
42:CI:386:GLU:OE1	42:CI:390:ARG:NH1	2.40	0.51
41:CJ:324:LYS:HB2	42:CK:222:PRO:O	2.10	0.51
42:DC:132:LEU:HD11	42:DC:135:PHE:HE1	1.75	0.51
41:DF:112:LEU:HB3	41:DF:147:MET:HE1	1.92	0.51
41:DF:257:MET:HG2	41:DF:266:PHE:CE2	2.46	0.51
41:DF:342:VAL:HG23	41:DF:345:ILE:HG22	1.92	0.51
41:DJ:142:GLY:O	41:DJ:143:THR:C	2.48	0.51
42:DM:136:LEU:HD11	42:DM:239:THR:HG21	1.92	0.51
41:ED:3:GLU:HG3	41:ED:127:CYS:HB3	1.92	0.51
41:EF:237:THR:HG23	41:EF:240:LEU:HD23	1.93	0.51
42:EG:256:GLN:C	42:EG:258:ASN:H	2.14	0.51
42:EI:3:GLU:HA	42:EI:51:THR:HA	1.92	0.51
41:EJ:54:ALA:HB3	41:EJ:58:LYS:HB2	1.93	0.51
41:EJ:193:VAL:HA	41:EJ:264:HIS:CE1	2.46	0.51
42:EK:135:PHE:O	42:EK:136:LEU:C	2.49	0.51
42:EK:164:LYS:O	42:EK:165:SER:C	2.49	0.51
42:EK:217:LEU:HD11	42:EK:368:LEU:HG	1.92	0.51
41:FD:222:TYR:HA	41:FD:225:LEU:HD12	1.92	0.51
41:FD:375:GLN:HB3	41:FD:422:TYR:CE2	2.46	0.51
41:FH:25:SER:HG	41:FH:51:TYR:HH	1.56	0.51
41:FH:87:PRO:HA	41:FH:90:PHE:CD2	2.45	0.51
42:FK:254:GLU:O	42:FK:255:PHE:C	2.48	0.51
41:FL:98:GLY:O	41:FL:99:ASN:C	2.49	0.51
42:GC:180:ALA:HB3	42:GC:183:GLU:HB2	1.92	0.51
42:GE:271:THR:HB	42:GE:377:MET:HB3	1.92	0.51
41:GJ:317:PHE:HB3	41:GJ:321:MET:SD	2.50	0.51
42:HC:287:SER:O	42:HC:288:VAL:C	2.49	0.51
41:HD:43:GLN:O	41:HD:44:LEU:C	2.49	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:HE:195:LEU:HD13	42:HE:266:HIS:CE1	2.46	0.51
42:HE:210:TYR:HE1	42:HE:227:LEU:HD11	1.75	0.51
41:HF:103:LYS:O	41:HF:108:GLU:HB2	2.10	0.51
42:HK:233:GLN:HE22	42:HK:362:VAL:HA	1.75	0.51
42:HK:409:VAL:HA	42:HK:413:MET:HB2	1.92	0.51
42:HM:310:GLY:HA3	42:HM:383:ALA:HB2	1.92	0.51
42:HM:385:ALA:HA	42:HM:388:TRP:CD1	2.45	0.51
42:IC:209:ILE:HA	42:IC:212:ILE:HG22	1.92	0.51
41:IH:22:GLU:HA	41:IH:81:PHE:CE2	2.45	0.51
42:JI:22:GLU:OE1	42:JI:229:ARG:NE	2.43	0.51
42:JK:164:LYS:O	42:JK:165:SER:C	2.49	0.51
42:JK:173:PRO:HG2	42:JK:391:LEU:HD11	1.91	0.51
41:MF:320:ARG:H	41:MF:320:ARG:HH11	1.58	0.51
41:MF:415:MET:O	41:MF:418:LEU:HG	2.10	0.51
41:MJ:145:SER:OG	41:MJ:184:ASN:O	2.28	0.51
42:NA:104:ALA:HB1	42:NA:411:GLU:HB3	1.92	0.51
41:NH:31:ASP:HB2	41:NH:32:PRO:HD2	1.92	0.51
41:NL:375:GLN:NE2	41:NL:379:LYS:HD2	2.25	0.51
42:OA:19:ALA:HA	42:OA:22:GLU:HG3	1.92	0.51
41:OB:86:ARG:HB3	41:OB:89:ASN:HB2	1.93	0.51
41:OH:320:ARG:HH22	41:OH:357:PRO:HD3	1.75	0.51
42:OI:109:THR:O	42:OI:112:LYS:N	2.37	0.51
42:OI:206:ASN:OD1	45:OI:501:GTP:O2'	2.28	0.51
41:OJ:358:PRO:HD2	41:OJ:364:SER:HB3	1.92	0.51
42:PA:251:ASP:H	42:PA:254:GLU:HG2	1.76	0.51
42:PA:261:PRO:HA	41:PB:394:PHE:CD1	2.45	0.51
42:PA:312:TYR:HE2	42:PA:379:SER:HB2	1.76	0.51
41:PD:97:ALA:O	41:PD:98:GLY:C	2.48	0.51
42:PE:169:PHE:HA	42:PE:202:PHE:O	2.11	0.51
41:PF:164:MET:HB3	41:PF:196:THR:HA	1.93	0.51
41:PH:174:LYS:O	41:PH:175:VAL:C	2.49	0.51
41:PJ:108:GLU:O	41:PJ:111:GLU:N	2.43	0.51
41:PL:42:LEU:HD12	41:PL:243:PRO:HG3	1.92	0.51
41:QD:69:GLU:HB3	41:QD:96:GLY:HA3	1.91	0.51
42:QE:236:SER:HA	42:QE:243:ARG:HH12	1.75	0.51
42:QG:236:SER:HA	42:QG:243:ARG:HH22	1.74	0.51
42:QI:16:ILE:HG12	42:QI:231:ILE:HD11	1.92	0.51
42:QI:260:VAL:HB	41:QJ:397:TRP:CH2	2.46	0.51
41:QL:66:VAL:HB	41:QL:91:VAL:HG21	1.93	0.51
41:RD:7:LEU:HD11	41:RD:120:VAL:HG22	1.92	0.51
42:RE:260:VAL:HB	41:RF:397:TRP:HZ2	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:RJ:207:LEU:HD12	43:RJ:501:GDP:HN21	1.75	0.51
42:RK:328:VAL:O	42:RK:332:ILE:HG12	2.10	0.51
41:RL:42:LEU:HD23	41:RL:356:ILE:HD11	1.92	0.51
42:SI:31:GLN:HB2	42:SI:32:PRO:HD2	1.91	0.51
42:SI:238:ILE:HG22	42:SI:239:THR:HG23	1.93	0.51
41:SJ:104:GLY:HA2	41:SJ:109:GLY:HA3	1.93	0.51
41:SL:44:LEU:O	41:SL:45:GLU:C	2.49	0.51
42:SM:208:ALA:HA	42:SM:304:LYS:HE3	1.92	0.51
42:TC:200:CYS:HA	42:TC:266:HIS:HB2	1.92	0.51
41:TD:291:GLN:O	41:TD:295:ASP:HB2	2.11	0.51
42:TM:56:THR:OG1	42:UM:284:GLU:O	2.28	0.51
42:TM:344:VAL:HG13	42:TM:347:CYS:H	1.76	0.51
41:UD:215:LEU:HB3	41:UD:217:LEU:HG	1.92	0.51
42:UG:205:ASP:OD1	42:UG:206:ASN:N	2.43	0.51
42:UM:219:ILE:HG22	42:UM:222:PRO:HB3	1.92	0.51
42:VG:172:TYR:HB2	42:VG:203:MET:CE	2.41	0.51
42:VI:158:SER:HB2	42:VI:166:LYS:NZ	2.26	0.51
42:VK:57:GLY:O	42:VK:58:ALA:C	2.49	0.51
42:VK:273:ALA:HB3	42:VK:274:PRO:HD3	1.93	0.51
42:WE:26:LEU:HD13	42:WE:364:PRO:HD2	1.92	0.51
42:WE:353:VAL:HG23	41:WF:177:ASP:HA	1.93	0.51
42:WM:236:SER:OG	42:WM:243:ARG:NH2	2.43	0.51
2:1E:72:VAL:HG11	42:HG:309:HIS:HD2	1.75	0.51
2:1F:52:ARG:HH11	26:4M:95:ILE:HD11	1.74	0.51
22:3Y:105:LYS:HE2	22:3Y:110:VAL:HA	1.93	0.51
24:4G:172:GLU:O	24:4G:176:ALA:N	2.42	0.51
26:4K:177:TRP:HH2	28:4V:121:LEU:HD23	1.76	0.51
33:5S:14:LEU:HB3	33:5S:15:PRO:HD3	1.91	0.51
33:5V:305:ARG:NH1	35:6T:362:HIS:HB3	2.20	0.51
34:6C:174:LEU:HD23	34:6C:244:LEU:HD23	1.91	0.51
34:6M:304:THR:HA	34:6M:307:ASN:HD22	1.76	0.51
34:6M:341:ASN:HA	34:6M:344:ASN:HB2	1.92	0.51
35:6R:346:LYS:HB3	35:6R:384:LEU:HD11	1.92	0.51
37:7C:247:THR:H	41:SF:94:GLN:HG2	1.76	0.51
37:7D:28:PRO:HB2	42:TE:308:ARG:CZ	2.41	0.51
41:BH:153:SER:OG	41:BH:191:GLN:OE1	2.28	0.51
42:BI:104:ALA:HA	42:BI:108:TYR:HD2	1.76	0.51
41:BL:236:VAL:HG23	41:BL:237:THR:HG23	1.93	0.51
41:CB:266:PHE:CE1	41:CB:370:ASN:HB2	2.46	0.51
42:CG:248:LEU:HD13	42:CG:353:VAL:HG23	1.92	0.51
41:CJ:302:ALA:O	41:CJ:303:CYS:C	2.49	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DC:137:ILE:HG22	42:DC:139:HIS:HB3	1.93	0.51
42:DI:184:PRO:HG2	42:DI:398:MET:HE1	1.93	0.51
42:EG:111:GLY:O	42:EG:112:LYS:C	2.50	0.51
41:EL:248:ALA:HB1	41:EL:253:LEU:HG	1.93	0.51
42:FC:248:LEU:HD23	42:FC:353:VAL:HG22	1.93	0.51
42:FE:3:GLU:OE2	42:FE:130:THR:N	2.44	0.51
41:FJ:177:ASP:N	41:FJ:181:GLU:OE1	2.37	0.51
42:FK:108:TYR:CE1	42:FK:413:MET:HG2	2.45	0.51
42:FK:139:HIS:CD2	42:FK:141:PHE:H	2.29	0.51
41:FL:25:SER:O	41:FL:28:HIS:N	2.43	0.51
41:FL:335:ASN:O	41:FL:336:LYS:C	2.48	0.51
42:GE:97:GLU:HG2	42:GE:105:ARG:HH12	1.74	0.51
42:GI:69:ASP:OD1	42:GI:70:LEU:N	2.44	0.51
41:GL:143:THR:OG1	43:GL:501:GDP:O2B	2.29	0.51
42:GM:161:TYR:HB3	42:GM:164:LYS:HZ2	1.75	0.51
42:GM:285:GLN:O	42:GM:287:SER:N	2.43	0.51
41:HB:221:THR:HG23	41:HB:223:GLY:H	1.76	0.51
41:HD:286:VAL:N	41:HD:287:PRO:HD2	2.26	0.51
42:HE:80:THR:O	42:HE:84:ARG:NH1	2.44	0.51
41:HH:165:ASN:HB3	41:HH:167:PHE:CZ	2.45	0.51
42:HI:256:GLN:O	42:HI:260:VAL:HG13	2.10	0.51
42:HI:267:PHE:CG	42:HI:388:TRP:HH2	2.29	0.51
41:HL:10:GLY:O	41:HL:14:ASN:ND2	2.37	0.51
41:HL:272:PRO:HG3	41:HL:289:LEU:HD11	1.93	0.51
41:IH:12:CYS:HB3	41:IH:138:SER:HB2	1.91	0.51
42:JE:142:GLY:HA3	42:JE:183:GLU:HG3	1.93	0.51
42:JK:329:ASN:HD22	41:JL:175:VAL:HG22	1.75	0.51
41:KN:192:LEU:O	41:KN:196:THR:OG1	2.26	0.51
41:LD:246:LEU:HD11	45:LE:501:GTP:H3'	1.92	0.51
41:LN:316:VAL:HG12	41:LN:352:ALA:HB3	1.93	0.51
41:MF:202:ILE:HD13	41:MF:229:VAL:HG23	1.92	0.51
42:MK:42:ILE:HG22	42:MK:44:GLY:H	1.75	0.51
42:MM:70:LEU:HD13	42:MM:114:LEU:HD13	1.92	0.51
42:NI:99:ALA:O	42:NI:100:ALA:C	2.49	0.51
42:OA:346:TRP:CD1	41:OB:391:ARG:HD2	2.46	0.51
41:OB:253:LEU:O	41:OB:257:MET:HB2	2.11	0.51
42:OC:247:ALA:HB3	42:OC:355:ILE:HB	1.93	0.51
42:OE:89:PRO:HD2	42:PE:280:LYS:HE2	1.92	0.51
41:OL:24:ILE:HA	41:OL:27:GLU:HB2	1.92	0.51
41:PB:306:ARG:HD3	41:PB:340:TYR:HB2	1.93	0.51
41:PD:268:PRO:HG2	41:PD:300:MET:HE2	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:PG:194:THR:O	42:PG:196:GLU:N	2.44	0.51
41:PH:125:GLU:O	41:PH:127:CYS:N	2.44	0.51
41:PJ:148:GLY:O	41:PJ:152:ILE:HG23	2.11	0.51
41:PJ:199:THR:O	41:PJ:201:CYS:N	2.44	0.51
42:QE:409:VAL:HG22	42:QE:415:GLU:HB3	1.92	0.51
42:QI:25:CYS:HA	42:QI:30:ILE:HG23	1.92	0.51
41:QL:121:ARG:O	41:QL:122:LYS:C	2.49	0.51
41:RB:159:TYR:HB3	41:RB:162:ARG:HG3	1.91	0.51
42:RE:70:LEU:H	42:RE:145:THR:HG21	1.75	0.51
42:RG:276:ILE:HG23	42:RG:280:LYS:HG3	1.92	0.51
41:RJ:61:PRO:HD3	41:RJ:84:ILE:HG12	1.93	0.51
41:RJ:229:VAL:HA	41:RJ:300:MET:HE1	1.91	0.51
42:RK:307:PRO:HB2	42:RK:312:TYR:HE1	1.76	0.51
41:SL:211:CYS:HA	41:SL:215:LEU:HB2	1.92	0.51
42:SM:324:VAL:HG22	42:SM:327:ASP:HB2	1.93	0.51
41:TD:1:MET:N	41:TD:129:CYS:SG	2.80	0.51
41:TF:211:CYS:HB3	41:TF:217:LEU:HD12	1.93	0.51
42:TG:207:GLU:HA	42:TG:210:TYR:HD2	1.76	0.51
42:TI:52:PHE:HZ	42:TI:239:THR:HG21	1.76	0.51
42:TI:261:PRO:HD2	42:TI:265:ILE:HG23	1.93	0.51
41:TJ:255:VAL:HG23	42:TK:407:TRP:CB	2.41	0.51
41:UJ:313:VAL:HG13	41:UJ:367:PHE:HE2	1.75	0.51
42:UK:332:ILE:HG12	41:UL:175:VAL:HG11	1.92	0.51
41:VD:308:GLY:HA2	41:VD:426:GLN:HE22	1.76	0.51
41:VD:310:TYR:HE2	41:VD:313:VAL:HG22	1.76	0.51
42:WC:289:ALA:O	42:WC:293:ASN:ND2	2.29	0.51
41:WF:6:HIS:HD2	41:WF:21:TRP:HE1	1.58	0.51
41:WL:393:ALA:O	41:WL:395:LEU:N	2.44	0.51
41:WN:290:THR:HG21	41:WN:329:GLN:HB3	1.92	0.51
9:2D:348:ALA:H	42:IG:221:ARG:NH2	2.08	0.51
11:2K:248:ARG:HH22	39:7L:25:LEU:C	2.14	0.51
19:3J:286:ASP:N	19:3J:286:ASP:OD2	2.44	0.51
19:3J:316:SER:N	19:3J:319:GLU:OE2	2.43	0.51
19:3K:442:TYR:HE1	19:3K:444:LEU:HD23	1.76	0.51
20:3N:268:ARG:HH12	41:CB:80:PRO:HB3	1.76	0.51
26:4L:223:ALA:O	26:4L:227:THR:OG1	2.28	0.51
27:4P:90:LYS:HE2	41:WF:111:GLU:HG2	1.93	0.51
28:4W:58:THR:HG22	28:4W:60:ASN:H	1.76	0.51
29:4Y:98:ASN:ND2	41:GH:118:ASP:OD1	2.44	0.51
33:5X:252:ASN:HD22	34:6C:320:LYS:HD3	1.75	0.51
33:5Y:36:HIS:HA	33:5Y:39:ARG:HG3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:AC:240:ALA:HB1	42:AC:356:ASN:HD22	1.75	0.51
41:AH:137:HIS:CE1	41:AH:168:SER:HB3	2.46	0.51
41:AJ:7:LEU:HD23	41:AJ:64:VAL:HB	1.91	0.51
41:AJ:214:THR:OG1	41:AJ:297:LYS:NZ	2.39	0.51
41:BF:3:GLU:HA	41:BF:49:VAL:HG23	1.91	0.51
41:BL:178:THR:HB	41:BL:181:GLU:HG3	1.91	0.51
42:CE:273:ALA:HB3	42:CE:375:VAL:HB	1.93	0.51
42:CG:199:ASP:O	42:CG:266:HIS:HB2	2.11	0.51
41:CJ:22:GLU:HG3	41:CJ:81:PHE:CD2	2.46	0.51
41:CL:221:THR:HG23	41:CL:223:GLY:H	1.75	0.51
42:DC:346:TRP:HB3	41:DD:391:ARG:HG3	1.93	0.51
41:DD:311:LEU:HD23	41:DD:342:VAL:HG11	1.91	0.51
41:DF:7:LEU:HG	41:DF:135:LEU:HD12	1.93	0.51
41:DH:260:PHE:N	41:DH:261:PRO:HD3	2.26	0.51
42:DK:373:ARG:HB2	42:DK:373:ARG:HH11	1.76	0.51
41:DL:10:GLY:HA2	41:DL:143:THR:HG23	1.93	0.51
41:ED:79:GLY:O	41:ED:80:PRO:C	2.49	0.51
41:ED:392:LYS:HE3	41:ED:395:LEU:HD22	1.93	0.51
41:EF:100:ASN:HB2	41:EF:103:LYS:HB3	1.93	0.51
41:EF:101:TRP:CD1	41:EF:146:GLY:HA2	2.45	0.51
41:EF:252:LYS:O	41:EF:350:LYS:NZ	2.42	0.51
42:EK:130:THR:OG1	42:EK:131:GLY:N	2.44	0.51
41:EL:207:LEU:HB3	41:EL:225:LEU:HD22	1.93	0.51
41:FD:258:VAL:HG22	41:FD:266:PHE:HZ	1.76	0.51
42:FE:180:ALA:HB3	42:FE:183:GLU:HG3	1.93	0.51
42:FI:274:PRO:HG2	42:FI:374:ALA:HA	1.92	0.51
42:GG:265:ILE:HG12	42:GG:432:TYR:HE1	1.75	0.51
41:GJ:308:GLY:HA3	41:GJ:373:ALA:HB2	1.92	0.51
42:GK:76:ASP:HA	42:GK:79:ARG:HB2	1.92	0.51
41:GL:117:LEU:HD22	41:GL:154:LYS:HD2	1.92	0.51
42:GM:70:LEU:HB3	42:GM:97:GLU:O	2.10	0.51
41:HL:264:HIS:ND1	41:HL:264:HIS:O	2.40	0.51
42:IK:286:LEU:HD11	42:IK:291:ILE:HD13	1.93	0.51
41:IL:354:CYS:SG	41:IL:355:ASP:N	2.84	0.51
41:IN:215:LEU:HB3	41:IN:217:LEU:HD23	1.92	0.51
42:JI:52:PHE:CZ	42:JI:239:THR:HG21	2.46	0.51
42:JI:56:THR:HB	42:JI:60:LYS:HB3	1.93	0.51
42:JI:186:ASN:OD1	42:JI:408:TYR:OH	2.29	0.51
42:KG:79:ARG:NH2	42:KG:92:LEU:O	2.42	0.51
42:KG:324:VAL:HG12	42:KG:326:LYS:H	1.74	0.51
41:KH:255:VAL:HG23	42:KI:407:TRP:CG	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:LE:71:GLU:HB2	42:LE:98:ASP:HB3	1.92	0.51
41:LF:252:LYS:HB2	42:LG:100:ALA:HA	1.93	0.51
42:LI:195:LEU:HD12	42:LI:428:LEU:HD22	1.93	0.51
41:MD:12:CYS:SG	41:MD:138:SER:HB2	2.50	0.51
41:MH:417:ASP:O	41:MH:421:GLU:N	2.43	0.51
42:NK:88:HIS:CE1	42:OK:284:GLU:HB2	2.46	0.51
42:OC:66:VAL:HA	42:OC:91:GLN:HG3	1.91	0.51
41:OJ:268:PRO:HG2	41:OJ:300:MET:HB2	1.92	0.51
41:OJ:330:MET:HB3	41:OJ:349:VAL:HG11	1.92	0.51
42:PA:201:ALA:HB3	42:PA:267:PHE:HA	1.93	0.51
41:PF:198:GLU:HA	41:PF:266:PHE:CE1	2.46	0.51
42:PG:321:GLY:O	42:PG:322:ASP:C	2.49	0.51
41:PH:272:PRO:HG3	41:PH:289:LEU:HD11	1.92	0.51
41:PH:314:ALA:HB3	41:PH:368:ILE:HB	1.92	0.51
42:PK:102:ASN:HD21	42:PK:104:ALA:HB3	1.76	0.51
42:QE:99:ALA:O	42:QE:105:ARG:NH1	2.44	0.51
41:QL:192:LEU:O	41:QL:193:VAL:C	2.48	0.51
41:QL:200:TYR:HB2	41:QL:268:PRO:HG3	1.93	0.51
41:RD:284:LEU:HD12	41:RD:289:LEU:HD21	1.93	0.51
42:RE:52:PHE:HZ	42:RE:239:THR:HG21	1.74	0.51
41:RF:183:TYR:CZ	41:RF:388:MET:HB3	2.45	0.51
42:RG:244:PHE:CD2	42:RG:358:GLN:HG2	2.46	0.51
41:RJ:107:THR:O	41:RJ:108:GLU:C	2.50	0.51
41:RJ:132:GLY:HA3	41:RJ:163:ILE:HB	1.91	0.51
41:RL:5:VAL:HB	41:RL:133:PHE:HD1	1.75	0.51
41:RL:31:ASP:OD1	41:RL:34:GLY:N	2.44	0.51
41:RL:55:THR:HG22	41:SL:283:ALA:HA	1.93	0.51
42:SE:260:VAL:HG22	41:SF:396:HIS:HE1	1.76	0.51
41:SH:284:LEU:HD22	41:SH:363:MET:HB3	1.93	0.51
42:SK:172:TYR:HB2	42:SK:203:MET:HG2	1.92	0.51
41:SL:173:PRO:O	41:SL:174:LYS:C	2.48	0.51
41:SL:236:VAL:HG22	41:SL:250:LEU:HD11	1.92	0.51
42:TK:289:ALA:O	42:TK:290:GLU:C	2.49	0.51
42:TM:395:PHE:HZ	42:TM:418:PHE:HB3	1.76	0.51
42:UC:260:VAL:HG23	41:UD:397:TRP:CH2	2.46	0.51
42:UG:139:HIS:HB2	42:UG:150:THR:HG21	1.91	0.51
41:UJ:178:THR:HB	41:UJ:181:GLU:HB2	1.91	0.51
41:UJ:378:PHE:HD1	41:UJ:418:LEU:HD22	1.76	0.51
42:UK:259:LEU:HD21	42:UK:378:LEU:HB3	1.92	0.51
42:UM:163:LYS:HD2	42:UM:164:LYS:H	1.76	0.51
42:UM:248:LEU:HB2	42:UM:355:ILE:HG12	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:VE:107:HIS:HD2	42:VE:152:LEU:HB2	1.76	0.51
42:VE:286:LEU:O	42:VE:373:ARG:NE	2.41	0.51
41:VF:44:LEU:HD12	41:VF:47:ILE:HG13	1.92	0.51
42:VI:105:ARG:HA	42:VI:109:THR:HB	1.93	0.51
42:WE:191:THR:HB	42:WE:425:MET:HE1	1.93	0.51
42:WG:386:GLU:OE1	42:WG:390:ARG:NH1	2.43	0.51
2:1E:197:LEU:HD11	26:4L:251:MET:HG2	1.92	0.51
10:2F:141:HIS:HB2	41:WD:356:ILE:HD13	1.93	0.51
16:3C:114:TYR:OH	42:UI:94:THR:O	2.22	0.51
16:3C:199:PRO:HD3	41:VL:287:PRO:HB3	1.91	0.51
19:3K:475:PRO:HG2	19:3K:485:TYR:CZ	2.46	0.51
20:3P:357:GLU:HG2	20:3P:358:ASN:H	1.76	0.51
21:3U:90:PRO:HD3	42:LI:264:ARG:HD3	1.93	0.51
22:4A:89:VAL:HG12	42:AK:79:ARG:HB3	1.93	0.51
23:4D:54:SER:O	23:4D:58:ASN:ND2	2.44	0.51
29:4Y:58:TYR:CE1	41:GF:42:LEU:HB2	2.46	0.51
32:5M:44:LEU:O	32:5M:48:ILE:HG12	2.11	0.51
32:5N:174:ASP:O	32:5N:178:LYS:N	2.37	0.51
32:5O:390:CYS:SG	32:5O:391:VAL:N	2.84	0.51
34:6D:390:SER:O	34:6D:394:LYS:HG2	2.11	0.51
34:6N:392:PHE:HA	34:6N:395:VAL:HG12	1.93	0.51
41:AB:86:ARG:NH1	41:BB:281:TYR:O	2.44	0.51
42:AK:187:SER:HB2	42:AK:391:LEU:HD21	1.92	0.51
42:AK:337:THR:HA	42:AK:341:ILE:HB	1.92	0.51
42:BC:211:ASP:OD1	42:BC:304:LYS:NZ	2.35	0.51
41:BJ:164:MET:HB2	41:BJ:197:ASP:H	1.73	0.51
42:CG:7:VAL:HG13	42:CG:66:VAL:HG13	1.92	0.51
41:CJ:137:HIS:O	41:CJ:168:SER:HA	2.11	0.51
41:CJ:207:LEU:HG	41:CJ:300:MET:HB3	1.93	0.51
41:CJ:271:ALA:HB3	41:CJ:272:PRO:CD	2.41	0.51
41:DB:133:PHE:HD1	41:DB:155:ILE:HD13	1.76	0.51
42:DC:248:LEU:H	42:DC:355:ILE:HB	1.75	0.51
42:DI:98:ASP:OD1	42:DI:99:ALA:N	2.44	0.51
41:EH:169:VAL:HA	41:EH:202:ILE:HG22	1.93	0.51
42:EM:32:PRO:O	42:EM:33:ASP:C	2.49	0.51
42:EM:99:ALA:HA	42:EM:110:ILE:CD1	2.41	0.51
42:FG:273:ALA:HB1	42:FG:291:ILE:HG22	1.92	0.51
42:FG:276:ILE:HG23	42:FG:280:LYS:HB2	1.93	0.51
41:GD:326:VAL:HA	41:GD:329:GLN:HE21	1.76	0.51
42:GM:11:GLN:HA	42:GM:74:VAL:HG11	1.92	0.51
42:HC:101:ASN:HA	42:HC:144:GLY:H	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:HI:346:TRP:CZ2	42:HI:435:VAL:HB	2.45	0.51
41:ID:260:PHE:HB2	41:ID:263:LEU:HD13	1.92	0.51
42:IE:35:GLN:O	42:IE:36:MET:C	2.50	0.51
42:IK:388:TRP:NE1	42:IK:428:LEU:HD22	2.25	0.51
42:JC:251:ASP:OD1	42:JC:254:GLU:HG2	2.10	0.51
41:JD:174:LYS:HG2	41:JD:175:VAL:HG23	1.92	0.51
41:JJ:141:GLY:O	41:JJ:184:ASN:ND2	2.43	0.51
41:JJ:263:LEU:HD21	41:JJ:421:GLU:HB3	1.92	0.51
42:JK:136:LEU:HD11	42:JK:239:THR:HG21	1.93	0.51
42:KE:248:LEU:HD11	41:KF:222:TYR:HE1	1.76	0.51
42:KK:231:ILE:HA	42:KK:234:ILE:HD12	1.92	0.51
41:KL:153:SER:HA	41:KL:195:ASN:HD22	1.76	0.51
42:LC:119:LEU:HD11	42:LC:156:ARG:HB3	1.91	0.51
42:LI:192:HIS:CE1	42:LI:196:GLU:HG3	2.46	0.51
41:LN:117:LEU:HA	41:LN:120:VAL:HG22	1.93	0.51
41:MF:152:ILE:HG23	41:MF:195:ASN:HB2	1.92	0.51
41:MF:331:LEU:HD11	42:MG:177:VAL:HG12	1.91	0.51
42:MI:60:LYS:NZ	42:MI:85:GLN:O	2.36	0.51
41:MJ:417:ASP:OD1	41:MJ:418:LEU:N	2.44	0.51
42:MK:307:PRO:HB3	42:MK:381:THR:HG21	1.91	0.51
41:ML:48:ASN:O	41:ML:62:ARG:NH2	2.31	0.51
41:MN:164:MET:H	41:MN:197:ASP:CG	2.14	0.51
42:NE:89:PRO:O	42:OE:280:LYS:NZ	2.43	0.51
42:NE:241:SER:OG	42:NE:250:VAL:O	2.28	0.51
41:NH:210:ILE:HG22	41:NH:215:LEU:HD12	1.92	0.51
41:NJ:237:THR:HA	41:NJ:240:LEU:HD23	1.93	0.51
41:OB:107:THR:HG21	41:OB:401:GLU:HB3	1.93	0.51
42:OG:97:GLU:HB3	42:OG:105:ARG:HH22	1.76	0.51
41:OL:192:LEU:O	41:OL:264:HIS:NE2	2.34	0.51
42:PE:390:ARG:C	42:PE:392:ASP:H	2.15	0.51
41:PF:385:PHE:O	41:PF:386:THR:C	2.49	0.51
41:PJ:382:SER:O	41:PJ:383:GLU:C	2.48	0.51
42:PK:317:LEU:HD11	42:PK:351:PHE:HD1	1.75	0.51
41:PL:62:ARG:O	41:PL:63:ALA:C	2.49	0.51
42:QE:66:VAL:HG11	42:QE:121:ARG:HB3	1.93	0.51
42:QG:350:GLY:HA3	41:QH:179:VAL:HB	1.93	0.51
41:QJ:88:ASP:O	41:QJ:89:ASN:C	2.49	0.51
42:RG:115:ILE:HD13	42:RG:152:LEU:HG	1.93	0.51
42:RK:316:CYS:O	42:RK:378:LEU:N	2.37	0.51
41:SH:282:ARG:NH2	41:SH:292:GLN:OE1	2.42	0.51
42:SI:161:TYR:HB3	42:SI:164:LYS:HD2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:SK:136:LEU:HD11	42:SK:235:VAL:HG13	1.93	0.51
42:TC:326:LYS:NZ	41:TD:220:PRO:O	2.44	0.51
42:TG:425:MET:O	42:TG:429:GLU:N	2.42	0.51
42:TM:87:PHE:CD2	42:TM:92:LEU:HD11	2.45	0.51
42:TM:219:ILE:HG22	42:TM:221:ARG:N	2.23	0.51
41:UD:193:VAL:HG21	41:UD:414:ASN:HD21	1.76	0.51
42:UG:3:GLU:CA	42:UG:51:THR:HA	2.40	0.51
42:UG:208:ALA:O	42:UG:212:ILE:HG13	2.11	0.51
41:UH:180:VAL:HG23	41:UH:184:ASN:HD21	1.75	0.51
42:UI:304:LYS:O	42:UI:390:ARG:NH1	2.42	0.51
41:UL:292:GLN:HG2	41:UL:298:ASN:ND2	2.25	0.51
42:VK:9:VAL:HG23	42:VK:145:THR:HG22	1.93	0.51
42:VK:23:LEU:HD11	42:VK:361:THR:HG23	1.93	0.51
42:VM:385:ALA:HA	42:VM:388:TRP:HD1	1.75	0.51
41:WF:98:GLY:O	41:WF:99:ASN:C	2.48	0.51
8:2A:108:TYR:CZ	42:AI:419:SER:HB3	2.45	0.50
11:2K:451:GLN:O	41:VF:276:ARG:NH2	2.42	0.50
19:3L:210:ASP:HB3	19:3L:213:THR:HG22	1.92	0.50
20:3N:61:ASP:N	20:3N:61:ASP:OD1	2.44	0.50
20:3P:64:VAL:HG12	42:AI:42:ILE:HA	1.93	0.50
20:3P:396:MET:SD	41:DJ:92:PHE:HZ	2.34	0.50
21:3T:78:LYS:HZ3	42:LE:415:GLU:HG3	1.75	0.50
21:3U:68:LYS:N	41:LH:410:GLU:OE2	2.44	0.50
25:4J:147:ASN:ND2	34:6H:158:SER:OG	2.37	0.50
31:5H:76:GLU:OE2	31:5H:144:ILE:HG21	2.10	0.50
32:5N:16:TRP:O	32:5N:20:ASN:ND2	2.44	0.50
33:5Q:43:ARG:NH2	33:5R:296:ASP:OD2	2.45	0.50
33:5Q:67:ARG:HD3	33:5R:332:ASP:OD1	2.11	0.50
34:6A:94:TYR:CZ	34:6B:208:ILE:HD12	2.44	0.50
34:6C:220:LEU:HA	34:6C:223:VAL:HG22	1.93	0.50
34:6C:327:ASN:O	34:6C:331:VAL:HG23	2.11	0.50
34:6F:470:GLN:HG2	35:6V:7:LEU:HD21	1.94	0.50
34:6L:177:ILE:HG21	34:6L:322:ARG:HD3	1.93	0.50
34:6M:452:LYS:NZ	35:6W:39:SER:O	2.44	0.50
35:6T:168:VAL:HA	35:6U:51:TYR:HB3	1.93	0.50
39:7K:119:ARG:NH1	42:VC:241:SER:O	2.45	0.50
41:AL:270:PHE:HB3	41:AL:273:LEU:HD11	1.92	0.50
41:BB:10:GLY:O	41:BB:14:ASN:ND2	2.44	0.50
41:BF:215:LEU:HD21	41:BF:273:LEU:HD22	1.92	0.50
41:BJ:256:ASN:HD22	42:BK:181:VAL:HG12	1.73	0.50
42:CC:21:TRP:HZ2	42:CC:65:ALA:HB2	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:CD:237:THR:O	41:CD:238:THR:C	2.49	0.50
42:CE:195:LEU:HD11	42:CE:428:LEU:HD13	1.93	0.50
42:CG:31:GLN:C	42:CG:33:ASP:H	2.15	0.50
42:CG:185:TYR:O	42:CG:188:ILE:HG13	2.10	0.50
42:CI:152:LEU:HA	42:CI:155:GLU:HG2	1.93	0.50
41:CL:206:ALA:HB2	41:CL:302:ALA:HB2	1.93	0.50
42:CM:211:ASP:OD2	42:CM:304:LYS:NZ	2.30	0.50
42:DC:405:VAL:HG22	42:DC:409:VAL:HG23	1.93	0.50
41:DH:7:LEU:N	41:DH:134:GLN:O	2.44	0.50
41:DH:325:GLU:O	41:DH:326:VAL:C	2.48	0.50
41:DJ:35:THR:HA	41:EJ:281:TYR:CZ	2.47	0.50
42:EC:150:THR:HA	42:EC:153:LEU:HD12	1.92	0.50
41:ED:256:ASN:HB2	41:ED:350:LYS:HG3	1.93	0.50
41:EF:221:THR:HG23	41:EF:224:ASP:H	1.76	0.50
42:EG:301:GLN:HG3	42:EG:307:PRO:CD	2.40	0.50
41:EH:111:GLU:N	41:EH:111:GLU:OE1	2.44	0.50
41:EL:286:VAL:HG22	41:EL:321:MET:HE3	1.93	0.50
42:EM:29:GLY:O	42:EM:30:ILE:C	2.50	0.50
42:EM:91:GLN:HE22	42:EM:125:LEU:HD11	1.75	0.50
42:EM:273:ALA:O	42:EM:275:VAL:N	2.44	0.50
41:FD:61:PRO:HD3	41:FD:84:ILE:CG1	2.40	0.50
41:FF:316:VAL:HA	41:FF:352:ALA:HB3	1.92	0.50
41:FJ:315:ALA:HB1	41:FJ:317:PHE:HE1	1.76	0.50
42:FK:56:THR:HG21	42:GK:282:TYR:O	2.11	0.50
41:FL:268:PRO:HG2	41:FL:300:MET:HB2	1.93	0.50
42:GG:274:PRO:HG3	42:GG:374:ALA:HA	1.92	0.50
42:GI:335:ILE:HD11	42:GI:341:ILE:HD13	1.92	0.50
42:GK:286:LEU:HD12	42:GK:291:ILE:HD13	1.92	0.50
41:HB:287:PRO:HA	41:HB:329:GLN:HE22	1.76	0.50
42:HE:90:GLU:HB3	42:HE:121:ARG:NE	2.20	0.50
41:HF:13:GLY:HA2	41:HF:16:ILE:HG12	1.92	0.50
42:HG:162:GLY:O	42:HG:163:LYS:C	2.50	0.50
41:HH:233:MET:HA	41:HH:236:VAL:HG22	1.92	0.50
42:HK:204:VAL:HB	42:HK:303:VAL:HG22	1.92	0.50
42:HK:276:ILE:HG23	42:HK:281:ALA:HB2	1.93	0.50
41:JD:211:CYS:HA	41:JD:215:LEU:HB3	1.94	0.50
41:JF:416:ASN:HA	41:JF:419:VAL:HB	1.93	0.50
41:JH:257:MET:O	41:JH:312:THR:OG1	2.24	0.50
41:JJ:319:GLY:HA2	41:JJ:357:PRO:HD3	1.92	0.50
42:JM:62:VAL:HG21	42:MM:283:HIS:O	2.11	0.50
42:JM:214:ARG:HD2	42:JM:220:GLU:HA	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:JM:344:VAL:HG23	42:JM:347:CYS:SG	2.51	0.50
41:KD:70:PRO:HG3	41:KD:92:PHE:CD2	2.46	0.50
42:KG:53:PHE:HB3	42:KG:61:HIS:HB3	1.93	0.50
42:KM:180:ALA:HB3	42:KM:183:GLU:HG3	1.92	0.50
41:KN:128:ASP:N	41:KN:128:ASP:OD1	2.44	0.50
42:LC:318:LEU:HB2	42:LC:376:CYS:HB3	1.93	0.50
42:LG:168:GLU:HB2	42:LG:201:ALA:HA	1.92	0.50
42:MC:6:SER:H	42:MC:65:ALA:HA	1.76	0.50
41:MF:20:PHE:HA	41:MF:230:SER:HB2	1.93	0.50
42:MG:104:ALA:HA	42:MG:108:TYR:HD2	1.76	0.50
41:MH:139:LEU:HD12	41:MH:170:VAL:HG12	1.93	0.50
41:MH:284:LEU:HD23	41:MH:362:LYS:HE2	1.94	0.50
41:MJ:67:ASP:OD1	41:MJ:68:LEU:N	2.43	0.50
42:NA:412:GLY:O	42:NA:413:MET:C	2.48	0.50
42:NC:70:LEU:HB2	42:NC:99:ALA:HB2	1.93	0.50
42:NC:86:LEU:O	42:NC:87:PHE:C	2.50	0.50
42:NI:238:ILE:HG13	42:NI:239:THR:HG23	1.93	0.50
42:NK:323:VAL:HG22	42:NK:373:ARG:HG2	1.93	0.50
42:NK:324:VAL:HG12	42:NK:327:ASP:H	1.76	0.50
42:OA:195:LEU:HD22	42:OA:428:LEU:HD12	1.93	0.50
42:OA:261:PRO:HG2	42:OA:313:MET:HE3	1.93	0.50
41:OB:338:SER:C	41:OB:340:TYR:H	2.13	0.50
42:OE:205:ASP:OD2	42:OE:205:ASP:N	2.33	0.50
42:OI:5:ILE:HG13	42:OI:132:LEU:HD11	1.92	0.50
41:OL:234:SER:O	41:OL:238:THR:OG1	2.29	0.50
42:PA:150:THR:O	42:PA:151:SER:C	2.50	0.50
42:PA:427:ALA:HA	42:PA:430:LYS:HE2	1.91	0.50
41:PB:311:LEU:HA	41:PB:342:VAL:HG22	1.93	0.50
42:PC:137:ILE:N	42:PC:167:LEU:O	2.44	0.50
42:PC:141:PHE:O	42:PC:142:GLY:C	2.50	0.50
42:PC:188:ILE:HG13	42:PC:189:LEU:N	2.26	0.50
41:PD:31:ASP:HB2	41:PD:33:THR:HG23	1.93	0.50
42:PE:141:PHE:HB3	42:PE:173:PRO:HD3	1.93	0.50
42:PE:281:ALA:O	42:PE:283:HIS:N	2.43	0.50
42:PG:282:TYR:O	42:PG:284:GLU:N	2.44	0.50
41:PH:148:GLY:O	41:PH:152:ILE:HG23	2.11	0.50
41:QB:249:ASP:H	41:QB:252:LYS:HB3	1.76	0.50
42:QG:388:TRP:O	42:QG:392:ASP:N	2.41	0.50
41:QH:204:ASN:HB3	41:QH:208:TYR:CZ	2.46	0.50
41:RD:135:LEU:HD11	41:RD:137:HIS:HB3	1.92	0.50
42:RE:76:ASP:OD1	42:RE:79:ARG:NH1	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:RG:100:ALA:N	45:RG:501:GTP:O2G	2.43	0.50
41:RJ:70:PRO:HA	41:RJ:92:PHE:HD2	1.76	0.50
42:SE:401:LYS:O	42:SE:402:ARG:C	2.48	0.50
41:SH:16:ILE:HA	41:SH:226:ASN:HD21	1.76	0.50
42:TE:220:GLU:OE1	42:TE:221:ARG:NE	2.41	0.50
41:TH:68:LEU:HD21	41:TH:109:GLY:HA2	1.93	0.50
42:TI:259:LEU:O	42:TI:260:VAL:C	2.49	0.50
41:TJ:248:ALA:HB1	41:TJ:350:LYS:HZ1	1.76	0.50
42:UK:384:ILE:HD12	42:UK:387:ALA:HB3	1.93	0.50
41:UL:256:ASN:ND2	42:UM:181:VAL:H	2.08	0.50
41:VF:304:ASP:HB3	41:VF:307:HIS:CE1	2.46	0.50
42:WC:37:PRO:HD2	42:WC:40:LYS:HE2	1.93	0.50
41:WD:184:ASN:OD1	41:WD:398:TYR:OH	2.29	0.50
42:WE:335:ILE:HG23	42:WE:341:ILE:HD13	1.93	0.50
41:WH:47:ILE:HG13	41:WH:51:TYR:HB2	1.93	0.50
42:WI:16:ILE:HA	42:WI:228:ASN:HB3	1.93	0.50
19:3J:423:LEU:HD11	19:3J:437:ARG:HB3	1.93	0.50
19:3K:244:ARG:NH2	42:CG:41:THR:HG22	2.26	0.50
19:3K:281:ARG:HG3	41:DH:219:THR:HG21	1.91	0.50
19:3L:101:ALA:HB2	19:3L:183:ILE:HG13	1.91	0.50
22:3Z:30:SER:H	42:CI:221:ARG:HH22	1.58	0.50
25:4I:52:TYR:CE2	25:4I:54:ASP:HB2	2.45	0.50
31:5G:31:GLU:OE2	31:5G:31:GLU:N	2.41	0.50
32:5M:311:LYS:HB3	32:5N:198:ILE:HG22	1.94	0.50
32:5N:85:VAL:HA	32:5N:88:THR:HG22	1.93	0.50
35:6V:144:ALA:O	35:6V:148:PRO:HD2	2.11	0.50
35:6V:427:ARG:HA	35:6V:431:MET:HG2	1.92	0.50
41:AH:251:ARG:HB3	42:AI:100:ALA:HB2	1.93	0.50
41:BB:209:ASP:OD1	41:BB:213:ARG:NH1	2.44	0.50
41:BD:30:ILE:HG23	41:BD:34:GLY:HA2	1.92	0.50
42:BE:298:PRO:HG3	42:BE:307:PRO:HD2	1.94	0.50
41:BF:23:VAL:HG11	41:BF:230:SER:HB3	1.92	0.50
41:BF:399:THR:HA	41:BF:403:MET:HB2	1.93	0.50
41:CB:138:SER:OG	43:CB:501:GDP:O1A	2.26	0.50
41:CF:101:TRP:CE3	41:CF:187:LEU:HB3	2.46	0.50
41:CF:389:PHE:O	41:CF:392:LYS:N	2.41	0.50
42:CG:17:GLY:HA2	42:CG:20:CYS:HB3	1.92	0.50
41:CH:39:ASP:OD1	41:CH:40:SER:N	2.45	0.50
41:DB:316:VAL:HA	41:DB:352:ALA:HB3	1.93	0.50
41:DH:292:GLN:C	41:DH:294:PHE:H	2.14	0.50
42:DI:386:GLU:HG3	42:DI:390:ARG:HH12	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DJ:3:GLU:HA	41:DJ:49:VAL:HA	1.93	0.50
41:DJ:260:PHE:HB2	41:DJ:263:LEU:HD13	1.93	0.50
42:EC:11:GLN:HA	42:EC:74:VAL:HG21	1.92	0.50
42:EC:396:ASP:HA	42:EC:399:TYR:HB3	1.93	0.50
41:ED:271:ALA:HB2	41:ED:365:ALA:HB3	1.93	0.50
41:FD:7:LEU:HB2	41:FD:135:LEU:HD22	1.93	0.50
41:FD:156:ARG:HB2	41:FD:164:MET:HE1	1.93	0.50
42:FE:207:GLU:OE2	42:FE:304:LYS:NZ	2.40	0.50
42:FG:171:ILE:HA	42:FG:204:VAL:HB	1.93	0.50
42:FI:7:VAL:HG11	42:FI:153:LEU:HD21	1.93	0.50
42:FI:141:PHE:HB2	42:FI:173:PRO:HD3	1.93	0.50
42:FI:205:ASP:HB2	42:FI:303:VAL:HA	1.92	0.50
42:GE:344:VAL:HG22	42:GE:345:ASP:H	1.77	0.50
41:GH:21:TRP:CZ2	41:GH:63:ALA:HB2	2.46	0.50
41:GH:103:LYS:HA	41:GH:107:THR:HG22	1.94	0.50
42:GI:180:ALA:HB3	42:GI:183:GLU:HG3	1.92	0.50
41:GJ:137:HIS:CE1	41:GJ:168:SER:HB3	2.47	0.50
41:HB:394:PHE:CD1	42:HM:261:PRO:HA	2.45	0.50
41:HD:230:SER:HA	41:HD:233:MET:HG3	1.93	0.50
42:HG:346:TRP:CZ2	42:HG:435:VAL:HG13	2.46	0.50
41:HH:215:LEU:HD21	41:HH:273:LEU:HD12	1.93	0.50
42:HI:257:THR:HG21	41:HJ:100:ASN:ND2	2.26	0.50
41:IH:210:ILE:O	41:IH:214:THR:OG1	2.28	0.50
42:IK:326:LYS:O	42:IK:330:ALA:N	2.28	0.50
42:JE:88:HIS:HB3	42:JE:91:GLN:HB2	1.92	0.50
42:JG:88:HIS:CD2	42:JG:91:GLN:HB2	2.47	0.50
41:JL:54:ALA:HB3	41:JL:58:LYS:HB3	1.93	0.50
41:KH:346:PRO:HG3	42:KI:394:LYS:HB3	1.92	0.50
41:KL:3:GLU:HA	41:KL:49:VAL:HA	1.92	0.50
42:MC:104:ALA:HB2	42:MC:413:MET:HE3	1.93	0.50
42:MK:353:VAL:HG12	41:ML:177:ASP:HA	1.93	0.50
41:MN:130:LEU:HB3	41:MN:162:ARG:HE	1.77	0.50
42:NA:123:ARG:HA	42:NA:161:TYR:OH	2.12	0.50
41:NB:305:PRO:O	41:NB:306:ARG:C	2.49	0.50
41:NL:377:LEU:HD12	41:NL:380:ARG:HH12	1.76	0.50
42:OA:118:VAL:HG11	42:OA:149:PHE:HZ	1.76	0.50
41:OD:311:LEU:HD23	41:OD:342:VAL:HG11	1.93	0.50
41:OF:192:LEU:HD12	41:OF:196:THR:HG21	1.93	0.50
42:OI:9:VAL:HG13	42:OI:139:HIS:HB3	1.92	0.50
42:OI:60:LYS:HE3	42:OI:86:LEU:HA	1.93	0.50
42:PA:76:ASP:HA	42:PA:79:ARG:HE	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:PA:338:LYS:O	42:PA:339:ARG:C	2.50	0.50
42:PG:7:VAL:O	42:PG:137:ILE:HA	2.11	0.50
41:PH:13:GLY:O	41:PH:14:ASN:C	2.48	0.50
42:PI:70:LEU:HD13	42:PI:145:THR:HG23	1.93	0.50
42:PI:323:VAL:O	42:PI:325:PRO:HD3	2.12	0.50
42:PK:339:ARG:O	42:PK:340:THR:C	2.49	0.50
41:PL:108:GLU:O	41:PL:109:GLY:C	2.50	0.50
42:QC:261:PRO:HG2	42:QC:313:MET:SD	2.52	0.50
42:QC:349:THR:OG1	42:QC:350:GLY:N	2.45	0.50
41:QH:257:MET:HB3	41:QH:266:PHE:CZ	2.46	0.50
42:QI:298:PRO:O	42:QI:299:ALA:C	2.49	0.50
41:QJ:348:ASN:HA	42:QK:181:VAL:HG21	1.92	0.50
41:QL:313:VAL:O	41:QL:350:LYS:N	2.45	0.50
41:RD:34:GLY:O	41:RD:35:THR:C	2.49	0.50
42:RG:49:PHE:HB2	42:RG:53:PHE:HD1	1.77	0.50
42:RI:298:PRO:HG3	42:RI:308:ARG:HH12	1.77	0.50
42:RK:91:GLN:HG3	42:RK:121:ARG:NH1	2.27	0.50
42:SE:5:ILE:HD12	42:SE:125:LEU:HB3	1.92	0.50
41:SF:68:LEU:HD11	41:SF:147:MET:HB2	1.92	0.50
42:SI:228:ASN:OD1	45:SI:501:GTP:N1	2.36	0.50
42:SI:287:SER:O	42:SI:288:VAL:C	2.49	0.50
41:SJ:342:VAL:HB	41:SJ:344:TRP:HD1	1.76	0.50
41:SL:8:GLN:NE2	41:SL:17:GLY:HA3	2.25	0.50
42:SM:172:TYR:N	42:SM:204:VAL:O	2.38	0.50
41:TD:309:ARG:HG2	41:TD:426:GLN:HG3	1.93	0.50
41:TF:238:THR:OG1	41:TF:318:ARG:NH1	2.43	0.50
41:TF:324:LYS:HZ3	42:TG:222:PRO:HD2	1.76	0.50
41:TJ:7:LEU:HD13	41:TJ:135:LEU:HD12	1.93	0.50
42:TK:357:TYR:O	42:TK:358:GLN:C	2.50	0.50
41:UF:8:GLN:HE22	41:UF:21:TRP:HE1	1.58	0.50
42:UG:87:PHE:HB3	42:UG:92:LEU:HD11	1.93	0.50
41:UJ:318:ARG:HH22	41:UJ:358:PRO:HA	1.75	0.50
42:UK:319:TYR:HB3	42:UK:323:VAL:HG21	1.92	0.50
41:VF:235:GLY:HA3	41:VF:366:THR:HG21	1.93	0.50
41:VF:311:LEU:O	41:VF:348:ASN:ND2	2.40	0.50
41:VL:392:LYS:NZ	41:VL:405:GLU:OE2	2.42	0.50
42:VM:328:VAL:HG11	42:VM:353:VAL:HG21	1.94	0.50
41:WH:66:VAL:HG23	41:WH:91:VAL:HG22	1.92	0.50
9:2D:325:ARG:HG2	41:IF:279:GLN:HE21	1.76	0.50
14:2X:219:THR:HB	41:MJ:194:GLU:HA	1.94	0.50
19:3J:432:GLU:OE2	41:FD:276:ARG:NE	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:3O:12:TRP:CD1	41:KH:70:PRO:HB3	2.46	0.50
31:5J:40:LYS:NZ	42:PA:364:PRO:HA	2.25	0.50
33:5Q:46:ARG:NH1	33:5R:299:HIS:HB3	2.26	0.50
33:5S:46:ARG:HG2	33:5T:300:LEU:HD13	1.93	0.50
33:5T:233:MET:O	33:5T:237:ILE:HG12	2.10	0.50
35:6U:400:GLN:OE1	35:6U:403:ARG:NH2	2.44	0.50
41:AF:392:LYS:HD2	41:AF:395:LEU:HD11	1.92	0.50
41:AJ:3:GLU:HA	41:AJ:49:VAL:HG23	1.93	0.50
41:AJ:350:LYS:HD2	42:AK:179:THR:O	2.10	0.50
41:BD:358:PRO:CG	41:BD:364:SER:HB3	2.41	0.50
42:BI:348:PRO:HB2	41:BJ:384:GLN:HE21	1.76	0.50
41:BL:4:ILE:HD12	41:BL:134:GLN:HG3	1.93	0.50
42:CG:133:GLN:HG2	42:CG:242:LEU:HD21	1.93	0.50
41:CL:167:PHE:CE2	41:CL:233:MET:HG3	2.47	0.50
42:CM:168:GLU:HB2	42:CM:201:ALA:HA	1.94	0.50
42:CM:324:VAL:HG22	42:CM:326:LYS:H	1.77	0.50
41:DB:107:THR:HG22	41:DB:108:GLU:H	1.76	0.50
41:DH:229:VAL:HG21	41:DH:300:MET:HG3	1.93	0.50
42:EC:319:TYR:CE2	42:EC:328:VAL:HG13	2.47	0.50
41:ED:389:PHE:HA	41:ED:392:LYS:HD3	1.92	0.50
42:EI:241:SER:OG	42:EI:250:VAL:O	2.22	0.50
42:EK:269:LEU:HD11	42:EK:384:ILE:HD12	1.94	0.50
41:FD:158:GLU:O	41:FD:160:PRO:HD3	2.11	0.50
41:FH:2:ARG:NH2	41:FH:249:ASP:OD1	2.33	0.50
42:FM:321:GLY:N	42:FM:356:ASN:O	2.44	0.50
42:GE:172:TYR:CD1	42:GE:173:PRO:HD2	2.46	0.50
42:GE:417:GLU:O	42:GE:421:ALA:N	2.44	0.50
41:GF:106:TYR:HE2	41:GF:403:MET:HB3	1.76	0.50
41:GL:217:LEU:HB2	41:GL:220:PRO:HG3	1.93	0.50
42:HG:248:LEU:HD21	41:HH:222:TYR:OH	2.10	0.50
42:HK:118:VAL:HG21	42:HK:149:PHE:HZ	1.76	0.50
41:HL:2:ARG:HB2	41:HL:131:GLN:HB2	1.93	0.50
42:IM:351:PHE:N	41:IN:179:VAL:HG22	2.26	0.50
42:JG:89:PRO:HD2	42:JG:90:GLU:H	1.77	0.50
41:JL:393:ALA:O	41:JL:394:PHE:C	2.50	0.50
41:KF:113:VAL:HG21	41:KF:150:LEU:HD23	1.93	0.50
42:KG:7:VAL:HB	42:KG:137:ILE:HG12	1.93	0.50
41:KJ:331:LEU:HB2	42:KK:177:VAL:HG12	1.93	0.50
42:LC:3:GLU:HA	42:LC:51:THR:HA	1.92	0.50
41:LJ:205:GLU:HA	41:LJ:208:TYR:HB2	1.93	0.50
41:LJ:383:GLU:HA	41:LJ:386:THR:HG22	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:ME:207:GLU:HA	42:ME:210:TYR:HB2	1.93	0.50
41:NF:69:GLU:O	41:NF:71:GLY:N	2.45	0.50
42:NG:100:ALA:O	42:NG:101:ASN:C	2.49	0.50
41:NH:1:MET:O	41:NH:2:ARG:C	2.49	0.50
42:NK:141:PHE:O	42:NK:173:PRO:HD3	2.11	0.50
41:NL:27:GLU:OE2	41:NL:318:ARG:NH2	2.36	0.50
41:OB:304:ASP:O	41:OB:306:ARG:N	2.44	0.50
41:OD:148:GLY:O	41:OD:152:ILE:HG12	2.11	0.50
42:OE:264:ARG:NH2	42:OE:431:ASP:OD1	2.39	0.50
41:OF:237:THR:HA	41:OF:240:LEU:HD13	1.92	0.50
41:OH:1:MET:O	41:OH:3:GLU:N	2.44	0.50
41:OH:389:PHE:O	41:OH:390:ARG:C	2.49	0.50
41:OJ:74:ASP:HA	41:OJ:77:ARG:HB2	1.93	0.50
42:PA:54:SER:HB2	42:PA:62:VAL:HG23	1.93	0.50
42:PI:201:ALA:O	42:PI:268:PRO:HD2	2.11	0.50
41:PJ:24:ILE:HD12	41:PJ:50:TYR:HB3	1.92	0.50
41:PJ:105:HIS:CD2	41:PJ:150:LEU:HB2	2.46	0.50
41:PL:53:GLU:HG2	41:PL:59:TYR:CE1	2.46	0.50
41:QB:107:THR:HG22	41:QB:108:GLU:H	1.77	0.50
41:QD:318:ARG:HG3	41:QD:354:CYS:HB3	1.92	0.50
41:QF:106:TYR:OH	41:QF:407:GLU:OE2	2.29	0.50
42:QG:69:ASP:HA	42:QG:145:THR:HG21	1.93	0.50
42:RC:208:ALA:HB2	42:RC:304:LYS:HG2	1.94	0.50
42:RE:264:ARG:HE	42:RE:428:LEU:HD21	1.76	0.50
42:RE:386:GLU:OE2	42:RE:390:ARG:NH2	2.44	0.50
41:RF:238:THR:HG21	41:RF:318:ARG:HD2	1.93	0.50
41:RJ:391:ARG:O	41:RJ:392:LYS:C	2.50	0.50
41:SD:5:VAL:HG22	41:SD:62:ARG:HD3	1.93	0.50
41:SF:87:PRO:HD2	41:TF:281:TYR:CE1	2.46	0.50
41:SJ:385:PHE:HZ	41:SJ:408:PHE:HB3	1.76	0.50
41:SL:405:GLU:HA	41:SL:408:PHE:HD2	1.77	0.50
42:SM:319:TYR:HB3	42:SM:323:VAL:HG21	1.92	0.50
41:TD:327:ASP:HA	41:TD:330:MET:HB2	1.93	0.50
42:TG:126:ALA:HA	42:TG:132:LEU:HD11	1.93	0.50
41:TH:252:LYS:O	41:TH:254:ALA:N	2.45	0.50
42:TI:141:PHE:HB2	42:TI:173:PRO:HD3	1.93	0.50
42:UC:274:PRO:HB3	42:UC:291:ILE:HD11	1.92	0.50
41:UH:344:TRP:HB2	42:UI:401:LYS:HD3	1.93	0.50
41:UL:412:GLU:O	41:UL:416:ASN:ND2	2.44	0.50
42:VC:437:MET:O	41:VD:391:ARG:NH1	2.44	0.50
41:WH:64:VAL:HG21	41:WH:120:VAL:HG22	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:2D:567:TYR:CD2	41:IN:276:ARG:HG3	2.46	0.50
19:3K:34:ARG:HG3	19:3K:35:ASN:H	1.76	0.50
19:3K:512:VAL:O	19:3K:516:MET:N	2.40	0.50
20:3N:11:HIS:CE1	41:KD:67:ASP:HB3	2.45	0.50
20:3N:12:TRP:CA	41:KD:69:GLU:HG3	2.41	0.50
20:3P:583:GLN:HA	20:3P:586:ILE:HB	1.92	0.50
22:3Z:16:TYR:CE1	22:3Z:43:LEU:HD21	2.47	0.50
22:4A:105:LYS:HE3	22:4A:113:GLU:HG3	1.94	0.50
30:5A:185:LEU:HD22	41:MH:56:GLY:HA3	1.92	0.50
32:5M:93:LEU:HD21	34:6B:384:LYS:HD3	1.93	0.50
33:5T:356:LEU:O	33:5T:360:GLN:HG2	2.12	0.50
41:AB:248:ALA:HA	41:AB:252:LYS:HD2	1.92	0.50
41:AD:21:TRP:HA	41:AD:24:ILE:HG22	1.92	0.50
42:AE:154:MET:HG3	42:AE:194:THR:HG22	1.93	0.50
42:AE:251:ASP:H	42:AE:254:GLU:HG3	1.76	0.50
42:AK:69:ASP:HB2	42:AK:75:ILE:HD11	1.94	0.50
42:AK:209:ILE:HD13	42:AK:231:ILE:HD11	1.93	0.50
41:BD:286:VAL:HB	41:BD:287:PRO:HD3	1.93	0.50
41:BD:360:GLY:O	41:BD:361:LEU:C	2.49	0.50
41:BJ:252:LYS:NZ	45:BK:501:GTP:O3G	2.43	0.50
41:BL:33:THR:O	41:BL:58:LYS:NZ	2.30	0.50
41:CB:239:CYS:HB3	41:CB:247:ASN:HB2	1.93	0.50
42:CG:186:ASN:HA	42:CG:189:LEU:HD12	1.94	0.50
41:CL:423:GLN:OE1	41:CL:426:GLN:NE2	2.44	0.50
41:DB:248:ALA:HA	41:DB:252:LYS:HD2	1.93	0.50
42:DG:262:TYR:CD2	41:DH:396:HIS:HE1	2.29	0.50
41:DH:229:VAL:O	41:DH:230:SER:C	2.48	0.50
42:DI:101:ASN:HB3	42:DI:182:VAL:HG21	1.94	0.50
42:DI:182:VAL:HG13	42:DI:185:TYR:CZ	2.47	0.50
42:DK:101:ASN:HB2	42:DK:182:VAL:CG1	2.41	0.50
42:DM:82:THR:OG1	42:DM:83:TYR:N	2.45	0.50
42:EK:28:HIS:HE1	42:EK:243:ARG:HE	1.60	0.50
42:EM:109:THR:O	42:EM:111:GLY:N	2.44	0.50
42:FC:288:VAL:O	42:FC:291:ILE:HG13	2.11	0.50
41:FF:66:VAL:HG11	41:FF:151:LEU:HD11	1.94	0.50
41:FH:64:VAL:HG11	41:FH:116:VAL:HG23	1.93	0.50
41:FJ:385:PHE:HZ	41:FJ:408:PHE:HB3	1.74	0.50
42:FK:203:MET:SD	42:FK:203:MET:N	2.85	0.50
42:FM:166:LYS:HB2	42:FM:199:ASP:H	1.75	0.50
41:GF:192:LEU:O	41:GF:196:THR:OG1	2.29	0.50
42:GI:273:ALA:HB3	42:GI:375:VAL:HB	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:HC:273:ALA:HB2	42:HC:295:CYS:SG	2.51	0.50
42:HC:305:CYS:O	42:HC:305:CYS:SG	2.69	0.50
41:HD:21:TRP:O	41:HD:25:SER:HB2	2.11	0.50
41:HF:416:ASN:HA	41:HF:419:VAL:HG22	1.93	0.50
42:HK:269:LEU:HD21	42:HK:384:ILE:HD13	1.94	0.50
42:HM:248:LEU:H	42:HM:248:LEU:HD23	1.76	0.50
42:IE:413:MET:HG2	42:IE:417:GLU:HG2	1.94	0.50
41:IH:348:ASN:O	41:IH:348:ASN:ND2	2.44	0.50
41:IJ:251:ARG:HH12	42:IK:105:ARG:CZ	2.24	0.50
41:IN:221:THR:OG1	41:IN:222:TYR:N	2.45	0.50
41:JD:6:HIS:HD2	41:JD:8:GLN:NE2	2.10	0.50
42:JG:203:MET:SD	42:JG:384:ILE:HD11	2.52	0.50
42:JM:323:VAL:HG13	42:JM:355:ILE:HG23	1.93	0.50
42:KG:247:ALA:HB1	41:KH:222:TYR:HD2	1.76	0.50
42:KI:93:ILE:HG22	42:KI:114:LEU:HD11	1.93	0.50
42:LI:49:PHE:HB2	42:LI:53:PHE:HB2	1.93	0.50
42:MC:313:MET:SD	42:MC:435:VAL:HG11	2.52	0.50
42:MM:87:PHE:HB3	42:MM:92:LEU:HD21	1.93	0.50
41:MN:344:TRP:HZ2	41:MN:425:TYR:HB3	1.77	0.50
42:NC:151:SER:HB2	42:NC:193:THR:HG21	1.93	0.50
41:ND:272:PRO:HG3	41:ND:364:SER:HB2	1.92	0.50
41:NL:156:ARG:HD2	41:NL:195:ASN:HB2	1.93	0.50
42:OA:148:GLY:O	42:OA:151:SER:OG	2.30	0.50
42:OA:417:GLU:O	42:OA:421:ALA:N	2.42	0.50
41:OL:294:PHE:HE2	41:OL:341:PHE:HZ	1.59	0.50
42:PA:141:PHE:HD2	42:PA:172:TYR:HA	1.75	0.50
42:PC:259:LEU:HD22	42:PC:314:ALA:HB1	1.92	0.50
41:PD:86:ARG:HB3	41:PD:89:ASN:HB3	1.93	0.50
41:PH:236:VAL:H	41:PH:366:THR:HG21	1.76	0.50
41:PH:238:THR:O	41:PH:239:CYS:C	2.50	0.50
42:QE:54:SER:N	42:QE:61:HIS:O	2.45	0.50
42:QI:105:ARG:O	42:QI:111:GLY:N	2.38	0.50
42:RC:132:LEU:HD21	42:RC:135:PHE:CE1	2.46	0.50
42:RE:48:SER:OG	42:RE:49:PHE:N	2.44	0.50
41:RF:242:PHE:HB3	41:RF:356:ILE:CG1	2.41	0.50
41:RH:156:ARG:HD3	41:RH:164:MET:CG	2.42	0.50
42:SC:297:GLU:HB3	42:SC:300:ASN:HB2	1.92	0.50
42:SG:274:PRO:HG3	42:SG:374:ALA:HA	1.93	0.50
41:SL:61:PRO:HG2	41:SL:84:ILE:HB	1.93	0.50
42:SM:166:LYS:HB3	42:SM:168:GLU:OE2	2.10	0.50
42:TC:312:TYR:CE2	42:TC:341:ILE:HG23	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:TF:7:LEU:N	41:TF:134:GLN:O	2.44	0.50
42:TG:56:THR:OG1	42:TG:59:GLY:O	2.30	0.50
42:TG:135:PHE:CE1	42:TG:164:LYS:HE3	2.46	0.50
42:TG:329:ASN:ND2	41:TH:175:VAL:HG21	2.27	0.50
41:TL:8:GLN:HE21	41:TL:65:LEU:HG	1.77	0.50
41:TL:282:ARG:HD3	41:TL:283:ALA:H	1.76	0.50
42:TM:296:PHE:CE2	42:TM:335:ILE:HD13	2.47	0.50
42:UE:88:HIS:CD2	42:VE:283:HIS:HB3	2.47	0.50
42:UG:324:VAL:HG12	42:UG:326:LYS:HZ3	1.76	0.50
41:UL:122:LYS:NZ	41:VL:291:GLN:OE1	2.43	0.50
41:VL:55:THR:HG23	41:WL:283:ALA:HA	1.93	0.50
41:VL:218:THR:HG23	41:VL:219:THR:HG23	1.91	0.50
41:VL:317:PHE:N	41:VL:352:ALA:O	2.44	0.50
42:WE:394:LYS:HA	42:WE:397:LEU:HD12	1.93	0.50
14:2X:72:ARG:HB3	42:OE:219:ILE:HA	1.93	0.50
19:3K:422:TYR:HE1	19:3K:512:VAL:HG21	1.76	0.50
20:3O:427:ILE:HG13	20:3O:430:LYS:HE2	1.94	0.50
20:3P:515:THR:O	20:3P:519:MET:N	2.45	0.50
21:3U:249:LYS:HD2	21:3U:250:HIS:HB2	1.93	0.50
23:4D:56:HIS:CE1	41:UJ:42:LEU:HD11	2.47	0.50
27:4Q:48:MET:HB2	27:4Q:51:SER:HB3	1.94	0.50
31:5J:115:ARG:NH2	31:5J:138:VAL:O	2.44	0.50
33:5T:238:GLU:HA	33:5T:241:GLU:HG2	1.92	0.50
33:5W:52:GLN:O	33:5W:53:THR:C	2.49	0.50
33:5W:311:LEU:HD21	33:5W:345:LEU:HB3	1.92	0.50
35:6R:447:GLN:HA	41:LJ:37:HIS:CE1	2.47	0.50
35:6S:347:GLU:O	35:6S:351:LYS:HG2	2.11	0.50
35:6T:368:LEU:O	35:6U:251:ALA:N	2.37	0.50
35:6V:72:ASP:OD1	35:6V:73:GLN:N	2.45	0.50
40:7N:430:ASN:HB3	40:7N:441:ASN:HD22	1.76	0.50
41:AB:36:TYR:CD2	41:AB:44:LEU:HD13	2.46	0.50
42:AI:276:ILE:HD13	42:AI:281:ALA:HB1	1.94	0.50
42:BG:255:PHE:HZ	42:BG:318:LEU:HD21	1.76	0.50
41:BL:64:VAL:HA	41:BL:89:ASN:HB3	1.94	0.50
41:CF:170:VAL:HG11	41:CF:201:CYS:HB3	1.92	0.50
41:CF:200:TYR:O	41:CF:202:ILE:HG13	2.11	0.50
41:CH:65:LEU:HD23	41:CH:90:PHE:CE1	2.46	0.50
42:CI:320:ARG:NH1	42:CI:358:GLN:OE1	2.45	0.50
42:CK:385:ALA:HA	42:CK:388:TRP:HD1	1.77	0.50
41:DB:132:GLY:HA3	41:DB:163:ILE:H	1.76	0.50
42:DE:217:LEU:HD23	42:DE:277:SER:HA	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DF:316:VAL:HA	41:DF:352:ALA:HB3	1.92	0.50
41:DH:25:SER:HB2	41:DH:30:ILE:HB	1.94	0.50
41:DL:68:LEU:HB2	41:DL:143:THR:HB	1.94	0.50
42:DM:204:VAL:HG22	42:DM:302:MET:HG3	1.93	0.50
41:ED:207:LEU:HG	41:ED:228:LEU:HD11	1.93	0.50
42:EG:31:GLN:O	42:EG:32:PRO:C	2.48	0.50
42:EK:56:THR:HA	42:FK:285:GLN:HB2	1.93	0.50
42:EK:395:PHE:HB3	42:EK:422:ARG:NH2	2.26	0.50
41:EL:251:ARG:HG2	42:EM:100:ALA:HB2	1.93	0.50
42:FE:101:ASN:HD22	42:FE:143:GLY:CA	2.24	0.50
42:FI:145:THR:OG1	42:FI:146:GLY:N	2.42	0.50
41:FJ:7:LEU:HD12	41:FJ:151:LEU:HD13	1.94	0.50
41:FJ:7:LEU:HD13	41:FJ:64:VAL:HB	1.94	0.50
41:FJ:234:SER:O	41:FJ:238:THR:OG1	2.23	0.50
41:FJ:322:SER:HB2	41:FJ:324:LYS:HE2	1.93	0.50
42:FK:22:GLU:HG2	42:FK:83:TYR:OH	2.12	0.50
41:GH:183:TYR:CD1	41:GH:408:PHE:HE2	2.28	0.50
41:GL:2:ARG:HE	42:GM:72:PRO:HD2	1.76	0.50
41:HB:380:ARG:O	41:HB:384:GLN:HG3	2.12	0.50
42:HC:333:ALA:HB2	41:HD:175:VAL:HG22	1.92	0.50
42:HG:189:LEU:HD23	42:HG:421:ALA:HB2	1.92	0.50
42:HI:36:MET:HG3	42:HI:61:HIS:CE1	2.46	0.50
42:HI:266:HIS:ND1	42:HI:266:HIS:O	2.45	0.50
41:HJ:86:ARG:HG2	41:HJ:88:ASP:H	1.77	0.50
41:HJ:101:TRP:CE3	41:HJ:184:ASN:HA	2.47	0.50
41:IJ:131:GLN:HE22	41:IJ:250:LEU:HB2	1.77	0.50
42:IK:238:ILE:HD12	42:IK:378:LEU:HD11	1.93	0.50
41:JD:401:GLU:N	41:JD:401:GLU:OE2	2.43	0.50
41:JH:330:MET:HG2	41:JH:349:VAL:HG22	1.93	0.50
42:JK:115:ILE:HD12	42:JK:153:LEU:HD12	1.93	0.50
42:JK:276:ILE:HG13	42:JK:286:LEU:HD21	1.92	0.50
41:JL:171:PRO:HG3	41:JL:181:GLU:HG2	1.93	0.50
42:JM:276:ILE:HB	42:JM:281:ALA:HB2	1.93	0.50
42:MC:79:ARG:NH2	42:MC:92:LEU:O	2.44	0.50
41:MD:152:ILE:HA	41:MD:155:ILE:HD11	1.93	0.50
41:MJ:25:SER:OG	41:MJ:51:TYR:OH	2.30	0.50
42:NA:328:VAL:HG21	42:NA:353:VAL:HG11	1.93	0.50
42:NC:73:THR:O	42:NC:74:VAL:C	2.50	0.50
42:NC:209:ILE:HB	42:NC:227:LEU:HD13	1.93	0.50
42:NC:406:HIS:HE1	42:NC:407:TRP:CE2	2.22	0.50
41:ND:202:ILE:HD13	41:ND:229:VAL:HG13	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:NE:63:PRO:HG3	42:NE:87:PHE:H	1.76	0.50
41:NL:116:VAL:HA	41:NL:119:VAL:HG12	1.93	0.50
41:OD:25:SER:OG	41:OD:30:ILE:O	2.25	0.50
42:OE:116:ASP:OD1	42:OE:117:LEU:N	2.45	0.50
42:OE:216:ASN:ND2	42:OE:300:ASN:OD1	2.44	0.50
41:OF:262:ARG:HH22	41:OF:417:ASP:HB3	1.76	0.50
41:OH:342:VAL:HB	41:OH:344:TRP:NE1	2.27	0.50
42:OI:213:CYS:HA	42:OI:217:LEU:HB2	1.92	0.50
41:OJ:98:GLY:O	41:OJ:100:ASN:N	2.44	0.50
41:OJ:113:VAL:HG21	41:OJ:150:LEU:HD13	1.93	0.50
41:OJ:215:LEU:O	41:OJ:216:LYS:C	2.50	0.50
42:PC:403:ALA:O	42:PC:405:VAL:N	2.41	0.50
42:PE:320:ARG:HB2	42:PE:374:ALA:HB3	1.93	0.50
41:PF:155:ILE:HA	41:PF:158:GLU:HG2	1.93	0.50
42:PG:51:THR:HG21	42:PG:243:ARG:HG3	1.94	0.50
42:PG:133:GLN:HE22	42:PG:253:THR:HG22	1.77	0.50
42:PG:250:VAL:HG12	42:PG:354:GLY:HA3	1.93	0.50
41:PH:290:THR:HA	41:PH:293:MET:HE2	1.92	0.50
41:PJ:42:LEU:HD13	41:PJ:45:GLU:OE1	2.12	0.50
42:QC:348:PRO:HG2	41:QD:384:GLN:OE1	2.12	0.50
41:QD:69:GLU:HG2	41:QD:71:GLY:H	1.76	0.50
41:QD:86:ARG:HG3	41:QD:89:ASN:HB2	1.94	0.50
41:QD:107:THR:O	41:QD:110:ALA:N	2.34	0.50
42:QG:295:CYS:HB3	42:QG:377:MET:HG2	1.93	0.50
42:QK:240:ALA:O	42:QK:241:SER:C	2.50	0.50
41:RB:15:GLN:C	41:RB:226:ASN:HD21	2.15	0.50
41:RB:407:GLU:HA	41:RB:410:GLU:HB3	1.94	0.50
41:RF:8:GLN:NE2	41:RF:17:GLY:HA3	2.26	0.50
42:RI:151:SER:HA	42:RI:154:MET:HG2	1.94	0.50
41:RJ:54:ALA:HA	41:SJ:283:ALA:CB	2.42	0.50
42:SC:137:ILE:HG21	42:SC:154:MET:HE2	1.93	0.50
42:SC:395:PHE:HB3	42:SC:422:ARG:HH22	1.76	0.50
41:SD:244:GLY:HA3	41:SD:354:CYS:HA	1.93	0.50
41:SD:318:ARG:NH2	41:SD:356:ILE:O	2.45	0.50
42:SE:140:SER:O	42:SE:141:PHE:C	2.48	0.50
42:SE:322:ASP:HB3	42:SE:373:ARG:HH21	1.75	0.50
41:SF:358:PRO:O	41:SF:359:ARG:C	2.50	0.50
42:SI:183:GLU:HB3	42:SI:184:PRO:HD3	1.92	0.50
41:TD:267:MET:HE1	41:TD:299:MET:SD	2.51	0.50
42:TK:72:PRO:O	42:TK:73:THR:C	2.50	0.50
42:UE:247:ALA:HB3	42:UE:355:ILE:HB	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:UF:5:VAL:HG22	41:UF:62:ARG:HD3	1.93	0.50
42:UI:102:ASN:ND2	42:UI:411:GLU:OE1	2.44	0.50
41:UJ:189:VAL:O	41:UJ:193:VAL:HG13	2.11	0.50
41:UL:207:LEU:HA	41:UL:210:ILE:HG22	1.93	0.50
41:VD:3:GLU:HG2	41:VD:127:CYS:SG	2.51	0.50
41:VD:170:VAL:HG11	41:VD:377:LEU:HD21	1.92	0.50
41:VH:58:LYS:NZ	41:VH:84:ILE:O	2.44	0.50
41:VH:101:TRP:HB3	41:VH:398:TYR:HE2	1.77	0.50
41:VJ:172:SER:HB2	41:VJ:205:GLU:OE2	2.11	0.50
42:VK:175:PRO:HG2	42:VK:304:LYS:HB3	1.93	0.50
42:VK:256:GLN:O	42:VK:260:VAL:HG13	2.11	0.50
41:VL:203:ASP:OD1	41:VL:302:ALA:N	2.45	0.50
42:WI:335:ILE:HG23	42:WI:341:ILE:HD13	1.94	0.50
41:WJ:184:ASN:OD1	41:WJ:398:TYR:OH	2.27	0.50
42:WM:261:PRO:HD3	41:WN:394:PHE:HE1	1.76	0.50
5:IO:43:ALA:HB3	41:KH:391:ARG:HA	1.94	0.50
19:3K:101:ALA:HB2	19:3K:183:ILE:HD13	1.93	0.50
19:3K:422:TYR:CE1	19:3K:512:VAL:HG21	2.46	0.50
19:3K:461:ILE:HG13	19:3K:463:GLY:H	1.76	0.50
19:3L:85:PHE:HZ	42:KM:58:ALA:HB3	1.75	0.50
19:3L:164:HIS:HD2	19:3L:166:LYS:HG3	1.76	0.50
20:3O:472:VAL:HG21	20:3O:501:VAL:HG13	1.93	0.50
20:3P:206:LYS:HD3	42:BI:58:ALA:HB1	1.93	0.50
27:4S:216:GLN:NE2	41:WL:118:ASP:OD2	2.44	0.50
33:5W:412:THR:O	34:6B:172:ASN:ND2	2.44	0.50
33:5X:131:ASP:HB3	33:5X:134:GLU:HB2	1.92	0.50
34:6E:389:LYS:NZ	34:6E:434:LEU:HD11	2.27	0.50
34:6E:430:THR:HG23	34:6F:131:LYS:HD2	1.92	0.50
35:6T:358:TYR:O	35:6T:362:HIS:ND1	2.38	0.50
42:AE:142:GLY:O	42:AE:186:ASN:ND2	2.43	0.50
41:BD:257:MET:HG3	41:BD:368:ILE:HD11	1.94	0.50
41:BH:403:MET:HG2	41:BH:408:PHE:HE1	1.77	0.50
42:BI:223:THR:OG1	42:BI:224:TYR:N	2.42	0.50
42:BI:381:THR:C	42:BI:383:ALA:H	2.14	0.50
42:CE:298:PRO:HG3	42:CE:308:ARG:HH12	1.76	0.50
42:CM:140:SER:OG	45:CM:501:GTP:O2A	2.29	0.50
42:CM:298:PRO:HG3	42:CM:307:PRO:HD2	1.92	0.50
41:DB:324:LYS:HG2	42:DC:214:ARG:HH22	1.77	0.50
42:DC:206:ASN:ND2	45:DC:501:GTP:O2'	2.43	0.50
42:DC:261:PRO:HD2	42:DC:265:ILE:HB	1.93	0.50
41:DH:85:PHE:HB2	41:DH:90:PHE:CZ	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DJ:202:ILE:HG23	41:DJ:300:MET:HE3	1.93	0.50
42:DK:5:ILE:H	42:DK:132:LEU:HD21	1.76	0.50
42:DK:105:ARG:O	42:DK:106:GLY:C	2.48	0.50
42:DK:163:LYS:O	42:DK:164:LYS:C	2.49	0.50
42:DM:277:SER:OG	42:DM:278:ALA:N	2.45	0.50
41:ED:303:CYS:O	41:ED:304:ASP:C	2.49	0.50
41:ED:320:ARG:HH11	41:ED:355:ASP:HB3	1.76	0.50
42:EE:373:ARG:HB2	42:EE:373:ARG:HH11	1.77	0.50
41:EF:182:PRO:HG3	41:EF:384:GLN:HB3	1.93	0.50
42:EG:288:VAL:O	42:EG:291:ILE:HG12	2.11	0.50
42:EM:322:ASP:HB3	42:EM:373:ARG:HD3	1.92	0.50
41:FD:70:PRO:O	41:FD:71:GLY:C	2.48	0.50
42:FG:143:GLY:O	42:FG:147:SER:N	2.44	0.50
42:FG:336:LYS:HE3	42:FG:351:PHE:HE1	1.77	0.50
41:FH:226:ASN:HA	41:FH:229:VAL:HG12	1.92	0.50
41:FL:257:MET:SD	41:FL:314:ALA:HB2	2.52	0.50
42:FM:139:HIS:CE1	42:FM:170:SER:HB2	2.47	0.50
42:FM:298:PRO:HB3	42:FM:301:GLN:HG2	1.94	0.50
42:FM:328:VAL:HG11	42:FM:353:VAL:HG21	1.92	0.50
42:GC:274:PRO:HG2	42:GC:374:ALA:HA	1.92	0.50
42:GI:88:HIS:HB3	42:GI:91:GLN:HG2	1.94	0.50
41:GL:31:ASP:HB3	41:GL:37:HIS:NE2	2.27	0.50
42:GM:274:PRO:HB2	42:GM:371:VAL:HG11	1.93	0.50
42:HC:58:ALA:O	42:HC:59:GLY:C	2.48	0.50
41:HD:208:TYR:CE1	41:HD:225:LEU:HD11	2.45	0.50
42:HI:133:GLN:HE21	42:HI:242:LEU:HG	1.75	0.50
41:ID:341:PHE:CZ	41:ID:348:ASN:HB2	2.47	0.50
41:IF:178:THR:HG22	41:IF:180:VAL:H	1.77	0.50
41:IF:392:LYS:HD2	41:IF:395:LEU:HB3	1.94	0.50
42:IG:322:ASP:O	42:IG:373:ARG:NE	2.44	0.50
42:JC:250:VAL:HG13	42:JC:254:GLU:HG3	1.93	0.50
41:JD:182:PRO:HB2	41:JD:385:PHE:HB2	1.94	0.50
42:JG:402:ARG:NH2	42:JG:415:GLU:OE1	2.44	0.50
42:KC:129:CYS:HB3	42:KC:132:LEU:HB2	1.93	0.50
42:LG:16:ILE:HA	42:LG:228:ASN:HB3	1.93	0.50
41:LJ:382:SER:OG	41:LJ:412:GLU:OE2	2.30	0.50
41:MF:108:GLU:O	41:MF:111:GLU:HG3	2.11	0.50
42:MI:319:TYR:HB3	42:MI:323:VAL:HG21	1.94	0.50
42:MK:71:GLU:HB2	42:MK:98:ASP:HB3	1.94	0.50
42:MK:310:GLY:H	42:MK:383:ALA:HB2	1.75	0.50
42:MM:238:ILE:HA	42:MM:318:LEU:HD13	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:MM:273:ALA:HB2	42:MM:295:CYS:HB2	1.93	0.50
41:MN:358:PRO:O	41:MN:359:ARG:C	2.50	0.50
41:NB:30:ILE:HD13	41:NB:47:ILE:HD11	1.92	0.50
42:NC:431:ASP:C	42:NC:433:GLU:H	2.15	0.50
41:NF:358:PRO:HB2	41:NF:361:LEU:HD12	1.93	0.50
42:NG:264:ARG:O	42:NG:265:ILE:C	2.50	0.50
42:NI:250:VAL:HG13	42:NI:254:GLU:HB2	1.93	0.50
42:NK:136:LEU:HB3	42:NK:169:PHE:HE2	1.76	0.50
42:OA:385:ALA:HA	42:OA:388:TRP:HD1	1.77	0.50
41:OB:144:GLY:O	41:OB:146:GLY:N	2.45	0.50
41:OB:207:LEU:HD12	41:OB:228:LEU:HD12	1.93	0.50
41:OB:322:SER:C	41:OB:324:LYS:H	2.13	0.50
41:OF:416:ASN:HA	41:OF:419:VAL:HG22	1.93	0.50
41:OH:28:HIS:NE2	41:OH:241:ARG:HD2	2.27	0.50
41:OJ:362:LYS:HE2	41:OJ:362:LYS:H	1.77	0.50
42:OK:204:VAL:HG11	42:OK:231:ILE:HG21	1.94	0.50
42:OK:247:ALA:O	41:OL:11:GLN:NE2	2.44	0.50
41:PB:279:GLN:O	41:PB:280:GLN:C	2.49	0.50
42:PC:25:CYS:HA	42:PC:30:ILE:HB	1.93	0.50
42:PC:234:ILE:HD11	42:PC:272:TYR:HB2	1.92	0.50
42:PE:409:VAL:HA	42:PE:413:MET:HB3	1.92	0.50
42:PG:277:SER:O	42:PG:369:ALA:HB2	2.11	0.50
42:PK:54:SER:OG	42:PK:62:VAL:HG22	2.12	0.50
41:QB:238:THR:HB	41:QB:316:VAL:HG11	1.92	0.50
42:QE:76:ASP:O	42:QE:80:THR:OG1	2.30	0.50
42:QE:147:SER:OG	42:QE:190:THR:OG1	2.23	0.50
41:QH:318:ARG:HG2	41:QH:354:CYS:HB2	1.94	0.50
41:RD:70:PRO:HB3	41:RD:92:PHE:CD2	2.47	0.50
41:RF:142:GLY:O	41:RF:143:THR:C	2.49	0.50
41:RF:180:VAL:O	41:RF:181:GLU:C	2.49	0.50
42:RI:262:TYR:O	42:RI:264:ARG:N	2.42	0.50
41:RJ:271:ALA:O	41:RJ:273:LEU:N	2.42	0.50
42:RK:316:CYS:HB3	42:RK:378:LEU:HB2	1.93	0.50
41:SH:50:TYR:H	41:SH:62:ARG:HH21	1.58	0.50
41:SH:156:ARG:NH1	41:SH:195:ASN:HB2	2.26	0.50
41:SL:324:LYS:HA	42:SM:210:TYR:CE2	2.46	0.50
42:TE:90:GLU:HG3	42:TE:121:ARG:HH11	1.76	0.50
41:TF:5:VAL:HG12	41:TF:62:ARG:HD3	1.93	0.50
41:TF:139:LEU:HG	41:TF:168:SER:HB2	1.93	0.50
41:TJ:200:TYR:HE2	41:TJ:236:VAL:HG21	1.77	0.50
41:TJ:317:PHE:N	41:TJ:352:ALA:O	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:TK:272:TYR:HD2	42:TK:275:VAL:HG13	1.77	0.50
42:TK:348:PRO:HD2	41:TL:388:MET:HE3	1.93	0.50
42:UC:298:PRO:HB3	42:UC:307:PRO:HD2	1.93	0.50
42:UG:66:VAL:HG21	42:UG:122:ILE:HD13	1.93	0.50
42:VC:196:GLU:O	42:VC:198:SER:N	2.44	0.50
41:VD:172:SER:OG	41:VD:175:VAL:O	2.30	0.50
42:VM:51:THR:HG21	42:VM:243:ARG:HG2	1.93	0.50
42:VM:191:THR:HA	42:VM:194:THR:HG22	1.92	0.50
41:WD:198:GLU:HG2	41:WD:266:PHE:HE1	1.77	0.50
41:WH:317:PHE:HB3	41:WH:321:MET:SD	2.52	0.50
41:WJ:140:GLY:HA3	41:WJ:181:GLU:OE1	2.11	0.50
41:WL:324:LYS:HZ2	42:WM:222:PRO:CD	2.23	0.50
41:WL:330:MET:HA	41:WL:333:VAL:HG22	1.94	0.50
42:WM:319:TYR:HB3	42:WM:323:VAL:HG21	1.94	0.50
8:2A:116:PRO:HG3	42:AI:263:PRO:HD2	1.92	0.50
22:3Y:196:PHE:HA	22:3Y:199:LEU:HB3	1.92	0.50
24:4F:113:GLN:O	24:4F:117:ASN:ND2	2.45	0.50
30:5A:103:ARG:HH11	42:LK:369:ALA:HB1	1.76	0.50
33:5T:133:VAL:HG23	33:5T:268:ARG:HG3	1.93	0.50
33:5V:111:ASP:OD2	35:6T:414:LYS:NZ	2.43	0.50
34:6F:414:ASP:HA	34:6G:297:PRO:HG3	1.94	0.50
35:6Q:68:PHE:HA	35:6Q:71:ARG:NH1	2.27	0.50
35:6U:294:ARG:HA	35:6U:297:CYS:HB3	1.93	0.50
35:6W:232:ASN:HD21	35:6W:234:GLN:HE21	1.60	0.50
37:7C:219:GLY:HA2	42:SG:123:ARG:NH1	2.26	0.50
42:AE:129:CYS:SG	42:AE:132:LEU:HB2	2.51	0.50
41:AH:89:ASN:O	41:AH:91:VAL:N	2.45	0.50
41:AJ:318:ARG:HB3	41:AJ:357:PRO:HA	1.93	0.50
42:BC:298:PRO:HB3	42:BC:307:PRO:HD2	1.94	0.50
41:BJ:262:ARG:NH2	41:BJ:414:ASN:OD1	2.44	0.50
41:BL:191:GLN:OE1	41:BL:191:GLN:N	2.45	0.50
41:CB:202:ILE:HG21	41:CB:300:MET:HG2	1.92	0.50
41:CH:104:GLY:HA2	41:CH:109:GLY:HA3	1.93	0.50
41:CJ:200:TYR:HE1	41:CJ:368:ILE:HG12	1.77	0.50
42:CM:311:LYS:H	42:CM:382:THR:HB	1.77	0.50
41:DB:334:GLN:NE2	41:DB:349:VAL:HG23	2.26	0.50
41:DF:6:HIS:CD2	41:DF:7:LEU:H	2.29	0.50
41:DL:410:GLU:O	41:DL:414:ASN:ND2	2.44	0.50
42:EC:255:PHE:O	42:EC:259:LEU:HD13	2.12	0.50
42:EE:89:PRO:HA	42:EE:92:LEU:HD12	1.94	0.50
41:EH:105:HIS:NE2	41:EH:150:LEU:HD13	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:EI:119:LEU:HA	42:EI:122:ILE:HB	1.93	0.50
41:EJ:4:ILE:HB	41:EJ:50:TYR:HE1	1.76	0.50
41:EJ:259:PRO:HD2	41:EJ:263:LEU:HD22	1.94	0.50
42:EK:99:ALA:O	42:EK:101:ASN:N	2.45	0.50
41:EL:322:SER:HB2	42:EM:221:ARG:HG2	1.94	0.50
42:EM:287:SER:O	42:EM:291:ILE:HG23	2.10	0.50
42:FE:271:THR:HB	42:FE:377:MET:HB3	1.93	0.50
42:FI:329:ASN:ND2	41:FJ:205:GLU:OE2	2.40	0.50
41:FJ:331:LEU:HD11	42:FK:176:GLN:HB3	1.93	0.50
42:FK:209:ILE:HB	42:FK:227:LEU:HD13	1.92	0.50
41:FL:341:PHE:O	41:FL:342:VAL:C	2.50	0.50
42:FM:423:GLU:HA	42:FM:426:ALA:HB3	1.93	0.50
42:GC:209:ILE:HG21	42:GC:227:LEU:HA	1.93	0.50
42:GE:254:GLU:OE2	42:GE:258:ASN:ND2	2.44	0.50
41:GF:234:SER:O	41:GF:238:THR:OG1	2.29	0.50
42:GM:191:THR:HA	42:GM:194:THR:HG22	1.94	0.50
41:HB:30:ILE:HD11	41:HB:47:ILE:HD11	1.93	0.50
42:HE:195:LEU:HA	42:HE:266:HIS:CE1	2.45	0.50
42:HE:234:ILE:HD11	42:HE:272:TYR:HB2	1.93	0.50
42:HI:109:THR:O	42:HI:111:GLY:N	2.41	0.50
41:HJ:99:ASN:CG	41:HJ:178:THR:HG21	2.31	0.50
41:HJ:294:PHE:HE2	41:HJ:313:VAL:HG11	1.76	0.50
42:HM:323:VAL:HG22	42:HM:373:ARG:HG2	1.94	0.50
41:IF:139:LEU:HG	41:IF:168:SER:HB2	1.94	0.50
42:II:172:TYR:OH	42:II:387:ALA:O	2.29	0.50
42:II:271:THR:OG1	42:II:301:GLN:OE1	2.30	0.50
42:IM:188:ILE:HD11	42:IM:425:MET:HG3	1.94	0.50
42:IM:342:GLN:HE22	42:IM:344:VAL:HA	1.77	0.50
41:IN:51:TYR:HA	41:IN:61:PRO:HA	1.93	0.50
41:IN:218:THR:O	41:IN:219:THR:C	2.50	0.50
42:JC:280:LYS:HA	42:JC:283:HIS:HB3	1.93	0.50
42:JC:424:ASP:HA	42:NA:339:ARG:HH12	1.77	0.50
41:JD:226:ASN:OD1	43:JD:501:GDP:N1	2.39	0.50
42:JG:207:GLU:HA	42:JG:210:TYR:HD1	1.76	0.50
41:JH:316:VAL:HG12	41:JH:352:ALA:HB3	1.93	0.50
41:JL:102:ALA:HA	41:JL:106:TYR:HD1	1.77	0.50
42:JM:4:CYS:HB3	42:JM:136:LEU:HD11	1.94	0.50
41:KL:211:CYS:HA	41:KL:215:LEU:HB2	1.94	0.50
42:KM:47:ASP:O	42:KM:49:PHE:N	2.45	0.50
41:KN:234:SER:OG	41:KN:241:ARG:NH2	2.44	0.50
41:LD:237:THR:HG22	41:LD:250:LEU:HD21	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:LE:274:PRO:HG3	42:LE:374:ALA:HA	1.92	0.50
42:MC:122:ILE:HD13	42:MC:157:LEU:HD21	1.93	0.50
41:MD:334:GLN:NE2	41:MD:349:VAL:HG13	2.26	0.50
42:MK:241:SER:HB3	42:MK:249:ASN:HB2	1.94	0.50
42:MK:329:ASN:HA	42:MK:332:ILE:HG22	1.94	0.50
41:ML:318:ARG:HB3	41:ML:358:PRO:HD3	1.94	0.50
42:MM:195:LEU:HD12	42:MM:266:HIS:HE1	1.76	0.50
42:MM:195:LEU:HG	42:MM:264:ARG:HE	1.76	0.50
42:NA:177:VAL:HG11	42:NA:207:GLU:HB2	1.93	0.50
41:NF:306:ARG:O	41:NF:307:HIS:C	2.49	0.50
42:NI:28:HIS:HE1	42:NI:243:ARG:HG2	1.77	0.50
41:NJ:313:VAL:O	41:NJ:350:LYS:N	2.38	0.50
41:OJ:121:ARG:O	41:OJ:122:LYS:C	2.50	0.50
42:PA:88:HIS:HB3	42:PA:91:GLN:HB3	1.93	0.50
41:PF:257:MET:SD	41:PF:312:THR:OG1	2.70	0.50
42:PG:287:SER:O	42:PG:289:ALA:N	2.44	0.50
41:PH:312:THR:OG1	41:PH:313:VAL:N	2.45	0.50
42:PI:7:VAL:HG22	42:PI:9:VAL:HG22	1.93	0.50
42:PI:192:HIS:O	42:PI:193:THR:C	2.50	0.50
41:PJ:231:ALA:O	41:PJ:232:THR:C	2.50	0.50
41:QB:247:ASN:HD22	42:QC:11:GLN:NE2	2.09	0.50
41:QB:318:ARG:HD3	41:QB:356:ILE:HG13	1.94	0.50
41:QD:35:THR:HG22	41:QD:36:TYR:H	1.77	0.50
42:QI:141:PHE:O	42:QI:143:GLY:N	2.45	0.50
42:QI:183:GLU:HB3	42:QI:184:PRO:HD3	1.93	0.50
42:QK:5:ILE:HG13	42:QK:125:LEU:HD13	1.92	0.50
42:QK:261:PRO:HA	41:QL:394:PHE:CD1	2.47	0.50
42:QK:401:LYS:O	42:QK:402:ARG:C	2.50	0.50
41:RB:347:ASN:ND2	42:RC:178:SER:O	2.40	0.50
41:RD:354:CYS:SG	41:RD:355:ASP:N	2.84	0.50
42:RG:105:ARG:HG3	42:RG:106:GLY:H	1.76	0.50
42:SC:319:TYR:CD2	42:SC:323:VAL:HG21	2.47	0.50
42:SE:109:THR:OG1	42:SE:110:ILE:N	2.44	0.50
41:SF:7:LEU:HD21	41:SF:120:VAL:HG22	1.94	0.50
41:SF:259:PRO:HG2	41:SF:311:LEU:HD23	1.93	0.50
42:SG:79:ARG:HD3	42:SG:92:LEU:HD12	1.93	0.50
41:SH:302:ALA:HB3	41:SH:377:LEU:HD13	1.94	0.50
42:SI:102:ASN:O	42:SI:103:TYR:C	2.49	0.50
41:SJ:24:ILE:HG21	41:SJ:50:TYR:HE2	1.75	0.50
42:SK:182:VAL:HG23	42:SK:186:ASN:HD21	1.76	0.50
42:TC:396:ASP:OD2	42:TC:422:ARG:NH2	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:TD:100:ASN:ND2	41:TD:397:TRP:O	2.38	0.50
42:TK:71:GLU:HG2	42:TK:72:PRO:HD2	1.94	0.50
42:TK:431:ASP:HA	42:TK:434:GLU:HG2	1.94	0.50
41:TL:105:HIS:CE1	41:TL:149:THR:HG22	2.47	0.50
42:TM:250:VAL:HG22	42:TM:352:LYS:HE3	1.93	0.50
42:TM:271:THR:HG23	42:TM:295:CYS:HB2	1.92	0.50
42:UC:216:ASN:HD21	42:UC:300:ASN:HD21	1.60	0.50
41:UF:152:ILE:HG21	41:UF:196:THR:HG22	1.92	0.50
41:UF:252:LYS:HD2	42:UG:100:ALA:HA	1.94	0.50
42:UG:237:SER:HA	42:UG:240:ALA:HB2	1.93	0.50
41:UJ:86:ARG:NH1	41:VJ:281:TYR:O	2.43	0.50
41:UJ:138:SER:O	41:UJ:140:GLY:N	2.44	0.50
42:UM:201:ALA:O	42:UM:203:MET:HG3	2.11	0.50
41:VD:282:ARG:NH2	41:VD:288:GLU:OE1	2.44	0.50
42:VK:385:ALA:HA	42:VK:388:TRP:CD1	2.46	0.50
41:VL:327:ASP:HB3	42:VM:177:VAL:HG21	1.94	0.50
41:WL:325:GLU:OE2	42:WM:221:ARG:NH1	2.40	0.50
42:WM:248:LEU:HG	41:WN:222:TYR:HE2	1.77	0.50
19:3L:315:ILE:HG13	19:3L:319:GLU:HB2	1.92	0.50
20:3P:347:LYS:O	20:3P:351:ARG:NH1	2.45	0.50
22:4C:196:PHE:HA	22:4C:199:LEU:HB3	1.94	0.50
25:4I:35:VAL:HG13	25:4I:47:LEU:HD21	1.93	0.50
30:5A:95:ASN:ND2	42:LK:372:GLN:OE1	2.44	0.50
32:5O:143:ILE:HG12	32:5O:253:LEU:HD11	1.93	0.50
33:5S:25:SER:HB3	33:5T:282:GLN:HE22	1.77	0.50
33:5V:95:MET:HG3	33:5V:240:ARG:HG2	1.93	0.50
34:6A:313:SER:OG	34:6A:314:GLU:N	2.45	0.50
34:6D:413:ARG:HH22	34:6D:418:LEU:HG	1.77	0.50
34:6F:201:HIS:HB3	34:6F:468:ILE:HD11	1.92	0.50
35:6V:349:PRO:HG3	35:6W:233:ASN:HD22	1.77	0.50
37:7E:187:GLN:HE22	42:OI:215:ARG:NH1	2.09	0.50
41:AD:262:ARG:NH2	41:AD:421:GLU:HG3	2.27	0.50
41:AD:281:TYR:HB3	41:KF:86:ARG:HD3	1.94	0.50
41:AD:372:THR:HG21	41:AD:426:GLN:HA	1.93	0.50
41:AF:11:GLN:HB2	41:AF:72:THR:HG21	1.93	0.50
42:AG:167:LEU:HD22	42:AG:200:CYS:HB3	1.93	0.50
41:AJ:429:THR:HG22	41:AJ:431:GLU:H	1.77	0.50
41:AL:173:PRO:HB3	41:AL:380:ARG:HD2	1.94	0.50
41:BH:165:ASN:HA	41:BH:198:GLU:HB3	1.93	0.50
42:CC:262:TYR:HD1	42:CC:262:TYR:H	1.59	0.50
42:CG:262:TYR:HE2	42:CG:435:VAL:HG23	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:CH:330:MET:HA	41:CH:333:VAL:HG12	1.94	0.50
41:CJ:12:CYS:SG	41:CJ:13:GLY:N	2.85	0.50
41:CJ:86:ARG:HB2	41:CJ:89:ASN:HB2	1.94	0.50
42:CK:349:THR:OG1	41:CL:176:SER:OG	2.21	0.50
41:DH:253:LEU:HA	41:DH:350:LYS:HD3	1.94	0.50
41:DJ:58:LYS:H	41:EJ:282:ARG:H	1.60	0.50
41:ED:163:ILE:HD11	41:ED:251:ARG:HE	1.76	0.50
42:EG:223:THR:O	42:EG:225:THR:N	2.45	0.50
42:EG:344:VAL:HB	42:EG:346:TRP:CD1	2.46	0.50
41:EH:213:ARG:HG3	41:EH:214:THR:HG23	1.93	0.50
42:EM:161:TYR:HB3	42:EM:164:LYS:HG3	1.93	0.50
41:FD:272:PRO:HG2	41:FD:361:LEU:HD13	1.94	0.50
41:FD:294:PHE:O	41:FD:295:ASP:C	2.49	0.50
41:FD:377:LEU:HD23	41:FD:380:ARG:NH1	2.24	0.50
42:FE:259:LEU:HD13	42:FE:316:CYS:HB2	1.93	0.50
42:FK:269:LEU:HD21	42:FK:381:THR:HG22	1.93	0.50
41:GJ:208:TYR:OH	41:GJ:222:TYR:CZ	2.61	0.50
41:GL:65:LEU:HD22	41:GL:90:PHE:HE1	1.76	0.50
41:GL:67:ASP:OD1	41:GL:68:LEU:N	2.44	0.50
41:HF:52:ASN:N	41:HF:60:VAL:O	2.40	0.50
41:HF:206:ALA:O	41:HF:210:ILE:HG12	2.11	0.50
42:HG:228:ASN:HA	42:HG:231:ILE:HD12	1.93	0.50
41:HH:255:VAL:HG11	42:HI:100:ALA:O	2.12	0.50
42:HI:70:LEU:O	42:HI:98:ASP:HA	2.12	0.50
42:HK:107:HIS:HB2	42:HK:152:LEU:HD13	1.93	0.50
42:HM:242:LEU:HD22	42:HM:252:LEU:HD13	1.93	0.50
41:IL:172:SER:OG	41:IL:175:VAL:O	2.30	0.50
42:IM:191:THR:HA	42:IM:194:THR:HG22	1.94	0.50
41:IN:7:LEU:O	41:IN:135:LEU:HA	2.11	0.50
41:IN:180:VAL:O	41:IN:181:GLU:C	2.51	0.50
41:JF:309:ARG:NH1	41:JF:341:PHE:O	2.45	0.50
42:JG:196:GLU:HG2	42:JG:197:HIS:CD2	2.46	0.50
42:JI:406:HIS:HA	42:JI:409:VAL:HG12	1.93	0.50
42:KE:98:ASP:O	42:KE:105:ARG:NH1	2.44	0.50
42:KE:387:ALA:HA	42:KE:390:ARG:NH1	2.27	0.50
41:LD:372:THR:HB	41:LD:426:GLN:HG2	1.92	0.50
41:LF:392:LYS:HD2	41:LF:395:LEU:HD23	1.93	0.50
41:LJ:181:GLU:HA	41:LJ:184:ASN:HD22	1.77	0.50
41:MF:333:VAL:HG12	41:MF:337:ASN:HD21	1.76	0.50
42:NA:188:ILE:HD12	42:NA:391:LEU:HD23	1.94	0.50
41:NB:323:MET:O	41:NB:324:LYS:C	2.49	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:NK:347:CYS:O	42:NK:348:PRO:C	2.50	0.50
41:OB:347:ASN:ND2	42:OC:178:SER:OG	2.45	0.50
42:OG:250:VAL:HG22	42:OG:352:LYS:HE2	1.93	0.50
41:OH:215:LEU:O	41:OH:216:LYS:C	2.50	0.50
41:OL:354:CYS:SG	41:OL:355:ASP:N	2.85	0.50
41:PB:296:ALA:O	41:PB:298:ASN:N	2.45	0.50
42:PE:335:ILE:HA	42:PE:338:LYS:HD2	1.94	0.50
42:PE:344:VAL:HG13	42:PE:346:TRP:H	1.77	0.50
41:PH:268:PRO:HG2	41:PH:300:MET:HE2	1.94	0.50
42:QE:240:ALA:HA	42:QE:243:ARG:HG2	1.94	0.50
41:QF:324:LYS:HB3	42:QG:222:PRO:HD2	1.93	0.50
42:QG:173:PRO:HB3	42:QG:183:GLU:HG2	1.92	0.50
41:QH:222:TYR:CD1	41:QH:225:LEU:HD11	2.44	0.50
42:QK:270:ALA:O	42:QK:302:MET:HB2	2.11	0.50
42:QK:298:PRO:O	42:QK:299:ALA:C	2.50	0.50
42:RC:93:ILE:HD11	42:RC:117:LEU:HD13	1.93	0.50
41:RH:33:THR:O	41:RH:58:LYS:NZ	2.27	0.50
42:RK:391:LEU:HA	42:RK:394:LYS:HG2	1.94	0.50
42:SE:172:TYR:CD1	42:SE:173:PRO:HD2	2.47	0.50
41:SH:7:LEU:O	41:SH:135:LEU:HG	2.12	0.50
41:SL:70:PRO:HD3	41:SL:94:GLN:HA	1.94	0.50
41:SL:190:HIS:CD2	41:SL:411:ALA:HA	2.47	0.50
41:TD:5:VAL:HG12	41:TD:62:ARG:HG2	1.93	0.50
42:TE:180:ALA:HB3	42:TE:183:GLU:HB2	1.92	0.50
42:TK:175:PRO:HA	42:TK:390:ARG:HD3	1.94	0.50
42:TK:219:ILE:HG13	42:TK:221:ARG:H	1.77	0.50
42:TM:123:ARG:NH2	42:TM:160:ASP:OD2	2.45	0.50
42:TM:268:PRO:HG2	42:TM:378:LEU:HD23	1.92	0.50
42:TM:315:CYS:HA	42:TM:379:SER:HA	1.92	0.50
42:UE:222:PRO:HG3	42:UE:226:ASN:HD22	1.77	0.50
41:UF:216:LYS:O	41:UF:276:ARG:NH2	2.44	0.50
42:UM:288:VAL:HG11	42:UM:327:ASP:HB3	1.92	0.50
41:VF:77:ARG:HD3	41:VF:90:PHE:HE2	1.77	0.50
41:VF:325:GLU:HA	41:VF:328:GLU:HG3	1.94	0.50
41:VH:3:GLU:HB2	41:VH:130:LEU:HD12	1.94	0.50
42:VM:195:LEU:HD13	42:VM:266:HIS:HE1	1.76	0.50
41:WH:1:MET:HE2	42:WI:72:PRO:HG3	1.92	0.50
42:WI:317:LEU:HB3	42:WI:319:TYR:CE1	2.47	0.50
14:2W:90:ARG:HH22	42:OA:291:ILE:HG12	1.76	0.50
19:3L:420:LEU:HB2	19:3L:512:VAL:HG22	1.94	0.50
20:3N:5:LYS:HE2	20:3N:30:GLY:HA3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:3N:165:THR:HG22	32:5L:370:LEU:HD22	1.94	0.50
20:3O:219:PHE:HB2	20:3O:341:ASP:HB3	1.94	0.50
20:3O:496:GLY:H	20:3O:508:LEU:HB2	1.77	0.50
20:3P:20:MET:HG2	41:AJ:216:LYS:HD3	1.94	0.50
21:3U:116:VAL:HG13	42:LK:409:VAL:HG11	1.94	0.50
21:3V:225:PRO:HG3	42:VM:57:GLY:HA2	1.94	0.50
22:3Y:248:LYS:HZ1	41:ED:283:ALA:HB1	1.77	0.50
22:3Z:55:HIS:ND1	22:3Z:55:HIS:O	2.45	0.50
24:4F:102:ARG:NH2	41:HD:33:THR:CB	2.74	0.50
24:4G:262:GLU:O	24:4G:266:GLU:N	2.39	0.50
27:4R:226:GLN:HE22	27:4R:251:TYR:HE1	1.57	0.50
31:5H:77:LEU:HD23	31:5H:104:LEU:HD13	1.94	0.50
32:5M:11:PHE:HB3	32:5M:15:GLU:HB2	1.94	0.50
32:5O:203:ASN:O	32:5O:204:VAL:C	2.50	0.50
33:5R:302:GLU:OE1	33:5R:306:ARG:NH2	2.41	0.50
33:5X:272:MET:SD	33:5X:384:MET:HG2	2.52	0.50
37:7C:193:THR:HA	42:SI:96:LYS:HB3	1.93	0.50
42:AK:150:THR:O	42:AK:154:MET:HG2	2.12	0.50
41:AL:344:TRP:CZ2	41:AL:425:TYR:HB3	2.47	0.50
41:BH:237:THR:HG22	41:BH:250:LEU:HD11	1.94	0.50
41:BH:311:LEU:HD23	41:BH:342:VAL:HG21	1.94	0.50
41:BL:86:ARG:HD2	41:BL:88:ASP:HB3	1.94	0.50
41:CH:113:VAL:HA	41:CH:116:VAL:HG12	1.94	0.50
41:CL:21:TRP:HA	41:CL:24:ILE:HG22	1.93	0.50
41:DB:33:THR:O	41:DB:58:LYS:NZ	2.44	0.50
41:DD:204:ASN:ND2	43:DD:501:GDP:O2'	2.36	0.50
42:DK:169:PHE:HA	42:DK:201:ALA:O	2.12	0.50
41:EF:113:VAL:HG22	41:EF:117:LEU:HD23	1.92	0.50
42:EG:100:ALA:HB2	42:EG:105:ARG:HH11	1.77	0.50
42:EG:109:THR:OG1	42:EG:110:ILE:N	2.45	0.50
42:EK:238:ILE:HD11	42:EK:378:LEU:HD11	1.94	0.50
41:EL:411:ALA:HA	41:EL:414:ASN:HD21	1.76	0.50
41:FD:181:GLU:N	41:FD:182:PRO:HD2	2.26	0.50
41:FF:317:PHE:N	41:FF:352:ALA:O	2.36	0.50
42:FI:234:ILE:HA	42:FI:272:TYR:CZ	2.47	0.50
41:GF:19:LYS:NZ	41:GF:223:GLY:O	2.45	0.50
42:GI:339:ARG:O	42:GI:342:GLN:NE2	2.45	0.50
42:GK:367:ASP:OD1	42:GK:367:ASP:N	2.44	0.50
42:HC:82:THR:O	42:HC:84:ARG:N	2.45	0.50
42:HC:85:GLN:O	42:HC:86:LEU:C	2.49	0.50
42:HC:427:ALA:O	42:HC:428:LEU:C	2.50	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:HD:86:ARG:HA	41:ID:281:TYR:CD1	2.47	0.50
42:HG:110:ILE:HG13	42:HG:111:GLY:N	2.26	0.50
42:HK:398:MET:SD	42:HK:398:MET:N	2.85	0.50
42:HM:164:LYS:O	42:HM:165:SER:C	2.49	0.50
41:IF:11:GLN:NE2	43:IF:501:GDP:O1A	2.30	0.50
41:IF:211:CYS:HB3	41:IF:220:PRO:HG3	1.94	0.50
41:JF:252:LYS:O	41:JF:256:ASN:ND2	2.45	0.50
42:JK:261:PRO:HG2	42:JK:313:MET:HE3	1.94	0.50
41:JL:372:THR:HG21	41:JL:426:GLN:HB2	1.94	0.50
42:KC:250:VAL:HG13	42:KC:254:GLU:HG3	1.94	0.50
42:LC:271:THR:HG22	42:LC:302:MET:H	1.77	0.50
42:LE:141:PHE:HB2	42:LE:173:PRO:HD3	1.93	0.50
42:LG:319:TYR:HB3	42:LG:323:VAL:HG11	1.92	0.50
41:MD:193:VAL:HA	41:MD:264:HIS:NE2	2.26	0.50
42:ME:71:GLU:HB2	42:ME:98:ASP:HB3	1.94	0.50
42:MK:226:ASN:ND2	42:MK:367:ASP:HB3	2.27	0.50
42:MK:316:CYS:HB3	42:MK:378:LEU:HB2	1.94	0.50
41:ML:142:GLY:O	41:ML:146:GLY:N	2.43	0.50
41:ML:192:LEU:O	41:ML:196:THR:OG1	2.30	0.50
42:NC:164:LYS:O	42:NC:165:SER:C	2.50	0.50
42:NG:274:PRO:HB2	42:NG:371:VAL:HG11	1.93	0.50
42:NG:319:TYR:HB3	42:NG:323:VAL:HG11	1.93	0.50
42:NI:407:TRP:O	42:NI:411:GLU:OE2	2.29	0.50
42:OA:144:GLY:HA2	42:OA:186:ASN:HD21	1.76	0.50
41:OB:214:THR:HG23	41:OB:297:LYS:HG3	1.93	0.50
41:OB:358:PRO:HG2	41:OB:364:SER:CB	2.42	0.50
41:OD:305:PRO:HD2	41:OD:306:ARG:HH12	1.76	0.50
42:OE:440:VAL:H	41:OF:391:ARG:NH2	2.10	0.50
42:OG:339:ARG:O	42:OG:340:THR:C	2.50	0.50
42:OK:91:GLN:OE1	42:OK:121:ARG:NH1	2.45	0.50
41:OL:202:ILE:HD13	41:OL:268:PRO:HG3	1.94	0.50
42:PA:32:PRO:HB3	42:PA:83:TYR:HA	1.94	0.50
42:PC:28:HIS:HB2	42:PC:243:ARG:HH22	1.77	0.50
42:PI:52:PHE:CE1	42:PI:243:ARG:HD3	2.47	0.50
42:PI:258:ASN:HD22	41:PJ:178:THR:HG23	1.77	0.50
42:QE:83:TYR:O	42:QE:86:LEU:N	2.32	0.50
41:QJ:5:VAL:HG22	41:QJ:62:ARG:HH11	1.76	0.50
41:QJ:260:PHE:O	41:QJ:262:ARG:N	2.42	0.50
42:QK:209:ILE:HA	42:QK:212:ILE:HD12	1.93	0.50
41:RF:6:HIS:CE1	41:RF:8:GLN:HB3	2.47	0.50
41:RF:12:CYS:SG	41:RF:138:SER:HB3	2.52	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:RF:14:ASN:HD21	41:RF:92:PHE:HE1	1.58	0.50
41:RF:181:GLU:HB2	41:RF:182:PRO:HD3	1.93	0.50
41:RJ:296:ALA:O	41:RJ:297:LYS:C	2.51	0.50
42:SC:200:CYS:HA	42:SC:266:HIS:HB2	1.93	0.50
42:SE:320:ARG:HH21	42:SE:360:PRO:HA	1.77	0.50
42:SG:395:PHE:HB3	42:SG:422:ARG:HH11	1.77	0.50
41:SH:293:MET:HE2	41:SH:367:PHE:HD1	1.77	0.50
41:TF:241:ARG:HH21	41:TF:318:ARG:HH12	1.60	0.50
41:TF:309:ARG:H	41:TF:372:THR:HG1	1.60	0.50
42:TK:388:TRP:CH2	42:TK:428:LEU:HD13	2.46	0.50
42:TM:408:TYR:HE2	42:TM:413:MET:HG2	1.77	0.50
41:UF:293:MET:HE2	41:UF:367:PHE:HD1	1.77	0.50
42:VI:2:ARG:HG3	42:VI:242:LEU:HB3	1.93	0.50
42:VK:311:LYS:HE2	42:VK:344:VAL:HA	1.94	0.50
42:VM:70:LEU:HD12	42:VM:99:ALA:HB2	1.94	0.50
42:WC:26:LEU:HD11	42:WC:364:PRO:HD3	1.92	0.50
41:WJ:379:LYS:HA	41:WJ:382:SER:HB3	1.94	0.50
9:2D:370:ARG:HH22	42:IG:291:ILE:HG21	1.75	0.49
14:2Y:181:PHE:HE1	41:OL:19:LYS:HE2	1.77	0.49
15:3A:41:LYS:NZ	41:IJ:54:ALA:O	2.44	0.49
20:3O:391:SER:HA	20:3O:397:PRO:HG3	1.94	0.49
24:4G:438:GLN:HA	24:4G:441:ILE:HG22	1.93	0.49
25:4J:128:LEU:HB3	25:4J:133:ALA:HB2	1.93	0.49
28:4W:44:PHE:HE1	42:GM:37:PRO:HG3	1.74	0.49
30:5A:19:ARG:NH1	41:LN:79:GLY:O	2.41	0.49
32:5L:286:MET:O	34:6A:483:THR:HG22	2.11	0.49
32:5N:328:LEU:HD23	32:5O:208:GLU:HG3	1.94	0.49
34:6A:276:ASN:HA	34:6B:395:VAL:HG23	1.93	0.49
41:AF:164:MET:HB3	41:AF:197:ASP:H	1.76	0.49
42:AG:237:SER:HA	42:AG:320:ARG:HH11	1.77	0.49
42:AG:275:VAL:HG23	42:AG:368:LEU:HD21	1.94	0.49
41:AH:207:LEU:HB3	41:AH:225:LEU:HD22	1.94	0.49
41:AH:391:ARG:O	41:AH:392:LYS:C	2.50	0.49
41:BB:32:PRO:HD3	41:BB:81:PHE:CZ	2.47	0.49
41:CB:130:LEU:HB3	41:CB:162:ARG:HH12	1.77	0.49
41:CH:118:ASP:N	41:CH:118:ASP:OD2	2.45	0.49
41:CJ:218:THR:C	41:CJ:220:PRO:HD3	2.33	0.49
41:CL:236:VAL:HG23	41:CL:237:THR:HG23	1.93	0.49
42:DE:258:ASN:HD21	41:DF:178:THR:HG23	1.75	0.49
41:DF:244:GLY:HA3	41:DF:354:CYS:HA	1.93	0.49
41:DH:104:GLY:HA3	41:DH:146:GLY:CA	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DI:99:ALA:HA	42:DI:105:ARG:HE	1.77	0.49
41:DJ:36:TYR:HB2	41:DJ:59:TYR:CE2	2.33	0.49
41:DL:315:ALA:O	41:DL:352:ALA:N	2.45	0.49
42:EC:402:ARG:HH22	42:EC:406:HIS:HA	1.77	0.49
41:EF:322:SER:HA	42:EG:223:THR:HB	1.93	0.49
42:EM:382:THR:HG21	42:EM:436:GLY:HA3	1.94	0.49
42:FC:5:ILE:HG22	42:FC:6:SER:H	1.76	0.49
42:FC:155:GLU:O	42:FC:159:VAL:HG13	2.12	0.49
41:FD:189:VAL:HA	41:FD:193:VAL:HG23	1.94	0.49
42:FE:396:ASP:CG	42:FE:422:ARG:HH12	2.15	0.49
42:FI:1:MET:HB3	42:FI:2:ARG:HH11	1.76	0.49
42:FI:140:SER:HA	42:FI:171:ILE:H	1.76	0.49
42:FI:318:LEU:HB2	42:FI:376:CYS:HB3	1.94	0.49
41:FJ:324:LYS:HD3	41:FJ:324:LYS:H	1.76	0.49
42:FK:5:ILE:HD13	42:FK:125:LEU:HB3	1.92	0.49
42:GC:249:ASN:H	41:GD:11:GLN:HE22	1.59	0.49
42:GC:319:TYR:HB3	42:GC:323:VAL:HG21	1.93	0.49
41:GD:257:MET:O	41:GD:258:VAL:C	2.51	0.49
42:GM:23:LEU:HD12	42:GM:363:VAL:HG23	1.94	0.49
42:HC:169:PHE:HZ	42:HC:238:ILE:HG12	1.77	0.49
41:HD:30:ILE:HG23	41:HD:34:GLY:HA2	1.94	0.49
41:HD:294:PHE:CE1	41:HD:333:VAL:HG11	2.47	0.49
41:HH:139:LEU:HB3	41:HH:185:ALA:HA	1.93	0.49
41:HH:207:LEU:HD12	41:HH:225:LEU:HA	1.93	0.49
42:HK:7:VAL:HG11	42:HK:153:LEU:HD21	1.93	0.49
41:HL:248:ALA:HA	41:HL:252:LYS:HE2	1.93	0.49
42:IC:126:ALA:HA	42:IC:129:CYS:HB2	1.94	0.49
41:ID:184:ASN:OD1	41:ID:398:TYR:OH	2.30	0.49
41:ID:242:PHE:HB3	41:ID:356:ILE:HD13	1.93	0.49
42:IE:276:ILE:HB	42:IE:281:ALA:HB2	1.94	0.49
42:KK:394:LYS:O	42:KK:398:MET:HG3	2.11	0.49
45:LF:502:GTP:O6	42:LG:15:GLN:NE2	2.45	0.49
41:LJ:313:VAL:HB	41:LJ:349:VAL:HG22	1.92	0.49
42:LK:81:GLY:O	42:LK:84:ARG:NH1	2.43	0.49
41:LN:5:VAL:HG22	41:LN:62:ARG:HD3	1.93	0.49
41:MD:253:LEU:O	41:MD:257:MET:HB2	2.12	0.49
41:MF:68:LEU:HB3	41:MF:96:GLY:HA2	1.93	0.49
42:MI:248:LEU:HD13	42:MI:355:ILE:HD13	1.93	0.49
42:MK:261:PRO:HB2	42:MK:262:TYR:CD2	2.47	0.49
41:MN:344:TRP:CE3	41:MN:345:ILE:HG13	2.47	0.49
41:NB:44:LEU:O	41:NB:45:GLU:C	2.50	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:NE:78:VAL:HG13	42:NE:92:LEU:HD21	1.93	0.49
41:NH:138:SER:HA	41:NH:169:VAL:HG22	1.93	0.49
41:NH:289:LEU:HD22	41:NH:363:MET:HE3	1.94	0.49
42:NK:12:ALA:HB3	42:NK:140:SER:HB3	1.94	0.49
41:OB:98:GLY:O	41:OB:99:ASN:C	2.50	0.49
41:OH:21:TRP:CE3	41:OH:24:ILE:HD11	2.47	0.49
41:OH:101:TRP:H	41:OH:398:TYR:HE1	1.60	0.49
42:OI:311:LYS:HZ3	42:OI:344:VAL:HA	1.77	0.49
42:PC:265:ILE:HD11	42:PC:313:MET:HE1	1.94	0.49
41:PD:174:LYS:HG3	41:PD:175:VAL:HG22	1.93	0.49
42:PE:68:VAL:HA	42:PE:93:ILE:O	2.12	0.49
41:PL:230:SER:HA	41:PL:233:MET:SD	2.52	0.49
42:QE:2:ARG:HH12	42:QE:243:ARG:HA	1.77	0.49
41:QH:367:PHE:O	41:QH:368:ILE:C	2.50	0.49
41:QJ:42:LEU:HD23	41:QJ:43:GLN:HG2	1.93	0.49
41:QL:17:GLY:HA2	41:QL:20:PHE:HD2	1.77	0.49
41:QL:226:ASN:O	41:QL:227:HIS:C	2.50	0.49
41:RD:298:ASN:O	41:RD:299:MET:C	2.50	0.49
42:RE:391:LEU:HA	42:RE:394:LYS:HG2	1.92	0.49
42:RG:3:GLU:OE1	42:RG:64:ARG:NH1	2.45	0.49
42:RI:139:HIS:CG	42:RI:150:THR:HG21	2.47	0.49
41:RL:5:VAL:HG22	41:RL:62:ARG:NE	2.23	0.49
41:SF:74:ASP:HA	41:SF:77:ARG:HG2	1.94	0.49
41:SF:169:VAL:HA	41:SF:202:ILE:O	2.12	0.49
41:SL:332:ASN:HA	41:SL:335:ASN:HD22	1.77	0.49
42:SM:7:VAL:HB	42:SM:137:ILE:HG13	1.94	0.49
42:SM:276:ILE:HG21	42:SM:371:VAL:HB	1.94	0.49
41:TD:215:LEU:HD21	41:TD:228:LEU:HD21	1.94	0.49
42:TG:222:PRO:HB3	42:TG:226:ASN:ND2	2.27	0.49
42:TI:17:GLY:HA2	42:TI:20:CYS:HB3	1.94	0.49
41:TJ:6:HIS:CD2	41:TJ:21:TRP:HE1	2.30	0.49
42:TK:139:HIS:HD2	42:TK:141:PHE:H	1.59	0.49
42:UC:238:ILE:HG22	42:UC:239:THR:HG23	1.93	0.49
41:UD:174:LYS:HD2	41:UD:175:VAL:HB	1.93	0.49
42:UE:261:PRO:HD2	42:UE:380:ASN:HD22	1.77	0.49
42:UI:3:GLU:HG3	42:UI:129:CYS:HB2	1.94	0.49
41:UJ:256:ASN:ND2	42:UK:181:VAL:H	2.10	0.49
42:VC:49:PHE:O	42:VC:53:PHE:N	2.43	0.49
42:VE:27:GLU:OE2	42:VE:236:SER:OG	2.27	0.49
42:VK:100:ALA:O	42:VK:101:ASN:C	2.50	0.49
42:WE:209:ILE:HG12	42:WE:227:LEU:HG	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:WH:137:HIS:CE1	41:WH:168:SER:HB3	2.47	0.49
42:WM:206:ASN:HB3	42:WM:210:TYR:CZ	2.47	0.49
20:3P:86:ARG:HE	20:3P:111:LEU:HD13	1.78	0.49
22:3Y:184:TYR:HE2	41:CD:53:GLU:HG3	1.77	0.49
22:4A:100:GLN:NE2	41:AJ:53:GLU:OE1	2.44	0.49
24:4F:144:LYS:HA	24:4F:147:ILE:HG22	1.93	0.49
24:4G:306:ARG:HH21	42:HI:364:PRO:HD2	1.77	0.49
30:5A:47:GLN:HE21	42:LM:370:LYS:HD3	1.75	0.49
32:5N:125:ILE:HD12	32:5O:11:PHE:CD1	2.47	0.49
33:5W:152:GLN:HG2	35:6U:429:LYS:HZ1	1.77	0.49
34:6A:276:ASN:HA	34:6B:395:VAL:CG2	2.42	0.49
34:6F:199:LEU:HD23	35:6P:43:THR:HG22	1.94	0.49
35:6V:148:PRO:O	35:6V:152:VAL:HG23	2.12	0.49
36:6Z:80:PHE:CZ	36:6Z:82:LYS:HE3	2.47	0.49
38:7H:209:PRO:HD2	42:IC:214:ARG:HH21	1.77	0.49
42:AC:76:ASP:HA	42:AC:79:ARG:HB2	1.93	0.49
41:AD:172:SER:OG	41:AD:203:ASP:OD1	2.21	0.49
42:AE:215:ARG:NH2	42:AE:299:ALA:O	2.45	0.49
42:AI:238:ILE:HD11	42:AI:378:LEU:HD21	1.93	0.49
41:BF:207:LEU:HB3	41:BF:225:LEU:HD22	1.93	0.49
42:CC:5:ILE:H	42:CC:132:LEU:HD11	1.77	0.49
41:CD:47:ILE:HG12	41:CD:59:TYR:CE2	2.47	0.49
41:CD:318:ARG:HE	41:CD:358:PRO:HD3	1.76	0.49
41:CF:257:MET:O	41:CF:370:ASN:ND2	2.45	0.49
42:CG:242:LEU:HD12	42:CG:242:LEU:H	1.78	0.49
41:CH:173:PRO:HD2	41:CH:205:GLU:HG3	1.94	0.49
41:CJ:139:LEU:HA	41:CJ:145:SER:HB3	1.93	0.49
41:DB:99:ASN:HA	41:DB:141:GLY:HA2	1.94	0.49
42:DE:310:GLY:HA3	42:DE:383:ALA:HB2	1.94	0.49
41:DH:81:PHE:O	41:DH:82:GLY:C	2.49	0.49
42:EC:5:ILE:HD12	42:EC:125:LEU:HB3	1.94	0.49
42:EG:115:ILE:HB	42:EG:152:LEU:HD21	1.93	0.49
41:EH:27:GLU:OE2	41:EH:318:ARG:NH2	2.45	0.49
41:EH:248:ALA:HA	41:EH:252:LYS:HD2	1.94	0.49
41:EJ:391:ARG:CG	41:EJ:391:ARG:HB3	2.20	0.49
41:EL:135:LEU:HB3	41:EL:166:THR:HG22	1.94	0.49
42:EM:240:ALA:HB1	42:EM:244:PHE:CZ	2.47	0.49
42:FG:292:THR:HB	42:FG:375:VAL:HG21	1.94	0.49
41:FH:347:ASN:ND2	42:FI:181:VAL:O	2.44	0.49
41:FJ:246:LEU:HG	45:FK:501:GTP:H5''	1.94	0.49
41:FL:362:LYS:H	41:FL:362:LYS:HZ2	1.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:FM:203:MET:HB2	42:FM:384:ILE:HD11	1.93	0.49
41:GD:259:PRO:HB3	42:GE:404:PHE:HE1	1.77	0.49
42:GK:204:VAL:HG21	42:GK:303:VAL:HG22	1.94	0.49
42:GM:110:ILE:O	42:GM:112:LYS:N	2.45	0.49
42:GM:209:ILE:O	42:GM:213:CYS:SG	2.70	0.49
41:HB:65:LEU:HD12	41:HB:90:PHE:CE1	2.47	0.49
41:HB:226:ASN:HA	41:HB:229:VAL:HG12	1.94	0.49
42:HC:387:ALA:O	42:HC:390:ARG:HG3	2.12	0.49
42:HE:241:SER:OG	42:HE:250:VAL:N	2.40	0.49
42:HE:320:ARG:HB3	42:HE:374:ALA:HB3	1.94	0.49
41:HH:207:LEU:HB3	41:HH:225:LEU:HG	1.93	0.49
42:HI:271:THR:CG2	42:HI:295:CYS:HA	2.42	0.49
41:IH:170:VAL:HG11	41:IH:377:LEU:HD21	1.93	0.49
41:IJ:316:VAL:HG12	41:IJ:352:ALA:HB3	1.94	0.49
41:JD:282:ARG:NH2	41:JD:288:GLU:O	2.45	0.49
42:JE:346:TRP:HB3	41:JF:391:ARG:HH11	1.76	0.49
42:JI:294:ALA:O	42:JI:300:ASN:ND2	2.41	0.49
42:JK:332:ILE:HA	42:JK:335:ILE:HD13	1.94	0.49
41:JL:377:LEU:HA	41:JL:380:ARG:HE	1.76	0.49
41:KD:66:VAL:HG11	41:KD:151:LEU:HD11	1.93	0.49
41:LD:312:THR:HG21	42:LE:404:PHE:HZ	1.76	0.49
42:LE:284:GLU:OE1	42:ME:88:HIS:NE2	2.45	0.49
42:LK:425:MET:HA	42:LK:428:LEU:HD13	1.93	0.49
41:LL:327:ASP:HB3	42:LM:177:VAL:HG21	1.94	0.49
41:LN:31:ASP:OD2	41:LN:35:THR:OG1	2.28	0.49
41:ML:209:ASP:O	41:ML:213:ARG:N	2.41	0.49
41:MN:318:ARG:HB3	41:MN:358:PRO:HD3	1.93	0.49
42:NA:250:VAL:HG13	42:NA:254:GLU:HB3	1.94	0.49
42:NC:60:LYS:O	42:NC:61:HIS:C	2.49	0.49
41:NF:61:PRO:HG3	41:NF:84:ILE:HB	1.93	0.49
41:NH:33:THR:OG1	41:NH:34:GLY:N	2.45	0.49
42:NK:208:ALA:HB2	42:NK:304:LYS:HG2	1.94	0.49
42:NK:319:TYR:HB3	42:NK:323:VAL:HG21	1.93	0.49
41:OB:120:VAL:HG11	41:OB:155:ILE:HD11	1.94	0.49
42:OC:217:LEU:O	42:OC:277:SER:OG	2.30	0.49
42:OK:119:LEU:HD11	42:OK:156:ARG:HG2	1.93	0.49
42:PA:347:CYS:O	42:PA:347:CYS:SG	2.69	0.49
42:PE:263:PRO:HD3	41:PF:396:HIS:HB2	1.94	0.49
42:PG:143:GLY:HA3	45:PG:501:GTP:O1A	2.11	0.49
41:PH:155:ILE:C	41:PH:157:GLU:H	2.16	0.49
41:PH:385:PHE:O	41:PH:386:THR:C	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:PK:6:SER:O	42:PK:65:ALA:HB1	2.12	0.49
42:PK:12:ALA:HB2	42:PK:140:SER:HB3	1.94	0.49
42:QC:108:TYR:HA	42:QC:112:LYS:HE2	1.93	0.49
42:QE:385:ALA:HA	42:QE:388:TRP:CD1	2.40	0.49
41:QJ:28:HIS:O	41:QJ:30:ILE:N	2.45	0.49
41:QJ:151:LEU:O	41:QJ:152:ILE:C	2.51	0.49
41:RD:28:HIS:CG	41:RD:47:ILE:HG13	2.47	0.49
41:RJ:324:LYS:HB2	42:RK:222:PRO:HD2	1.92	0.49
42:RK:236:SER:OG	42:RK:320:ARG:NH1	2.45	0.49
42:SC:208:ALA:O	42:SC:212:ILE:N	2.38	0.49
42:SE:103:TYR:HB3	42:SE:408:TYR:HE2	1.77	0.49
41:SF:257:MET:HE3	41:SF:314:ALA:HB2	1.93	0.49
42:UC:31:GLN:HE21	42:UC:33:ASP:HB3	1.77	0.49
41:UJ:113:VAL:HA	41:UJ:116:VAL:HG12	1.94	0.49
42:VC:276:ILE:HD11	42:VC:286:LEU:HD11	1.94	0.49
42:VE:190:THR:O	42:VE:194:THR:OG1	2.21	0.49
42:VK:209:ILE:HB	42:VK:227:LEU:HD22	1.93	0.49
41:WF:117:LEU:HD21	41:WF:155:ILE:HG13	1.94	0.49
42:WG:349:THR:OG1	42:WG:350:GLY:N	2.44	0.49
41:WL:214:THR:OG1	41:WL:215:LEU:N	2.44	0.49
41:WN:178:THR:HG22	41:WN:180:VAL:H	1.77	0.49
2:1E:97:LEU:HD13	26:4L:153:LEU:HD11	1.94	0.49
5:1O:2:ALA:N	42:KG:344:VAL:O	2.44	0.49
11:2K:248:ARG:NH2	39:7L:25:LEU:O	2.45	0.49
14:2W:227:TYR:HE2	42:MG:411:GLU:HA	1.77	0.49
19:3J:31:LEU:HD22	41:LD:77:ARG:HD2	1.94	0.49
20:3Q:443:PHE:HB3	20:3Q:446:ASP:H	1.76	0.49
24:4G:307:LEU:HG	42:HI:364:PRO:CB	2.40	0.49
28:4V:126:SER:OG	28:4V:127:TYR:O	2.28	0.49
29:4Y:118:HIS:HE1	42:GI:127:ASP:HB2	1.77	0.49
33:5R:53:THR:HG21	33:5S:307:LYS:HD2	1.94	0.49
34:6F:126:ARG:HH11	34:6F:127:LEU:HB2	1.76	0.49
34:6L:363:THR:HG22	34:6L:367:LYS:HE2	1.93	0.49
34:6L:403:ARG:HB3	34:6L:406:ARG:HH12	1.77	0.49
35:6Q:152:VAL:HG21	35:6Q:179:GLU:HG2	1.93	0.49
35:6Q:257:TRP:CH2	35:6R:367:GLU:HA	2.47	0.49
35:6Q:371:ASP:HB2	35:6Q:374:GLN:H	1.76	0.49
35:6T:335:ASN:HD22	35:6U:78:ARG:HG3	1.77	0.49
35:6V:170:ASP:HB2	35:6V:307:ARG:HD3	1.94	0.49
41:AD:200:TYR:HB3	41:AD:268:PRO:HG3	1.94	0.49
41:AD:248:ALA:HA	41:AD:252:LYS:HG2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:AK:273:ALA:HB3	42:AK:274:PRO:CD	2.42	0.49
41:AL:91:VAL:HG11	41:AL:116:VAL:HG13	1.93	0.49
41:BB:19:LYS:HA	41:BB:22:GLU:HG2	1.94	0.49
42:BC:79:ARG:HH22	42:BC:94:THR:HB	1.78	0.49
42:BC:228:ASN:OD1	45:BC:501:GTP:N1	2.44	0.49
42:BI:11:GLN:HG3	42:BI:74:VAL:HG11	1.92	0.49
42:BI:305:CYS:O	42:BI:306:ASP:C	2.50	0.49
41:BJ:143:THR:N	43:BJ:501:GDP:O2B	2.42	0.49
41:CB:87:PRO:HA	41:CB:90:PHE:HD2	1.77	0.49
42:CC:281:ALA:C	42:CC:283:HIS:H	2.14	0.49
41:CD:389:PHE:O	41:CD:390:ARG:C	2.50	0.49
42:CE:199:ASP:OD2	42:CE:256:GLN:NE2	2.39	0.49
41:CF:20:PHE:CE1	41:CF:24:ILE:HG21	2.47	0.49
42:CM:320:ARG:HB3	42:CM:374:ALA:HB3	1.94	0.49
41:DB:256:ASN:HD21	42:DC:180:ALA:HB1	1.77	0.49
41:DF:178:THR:HB	41:DF:181:GLU:HB3	1.94	0.49
42:DI:103:TYR:OH	42:DI:193:THR:HG21	2.12	0.49
42:DI:277:SER:OG	42:DI:278:ALA:N	2.45	0.49
41:DJ:178:THR:HB	41:DJ:181:GLU:HB2	1.94	0.49
41:DJ:261:PRO:O	41:DJ:262:ARG:C	2.51	0.49
41:DJ:297:LYS:H	41:DJ:297:LYS:HZ2	1.60	0.49
42:EC:109:THR:O	42:EC:111:GLY:N	2.45	0.49
42:EC:248:LEU:HD13	42:EC:355:ILE:HD12	1.95	0.49
41:ED:235:GLY:O	41:ED:236:VAL:C	2.50	0.49
42:EE:248:LEU:HD21	43:EF:501:GDP:H2'	1.94	0.49
42:EG:362:VAL:HB	42:EG:370:LYS:HD3	1.94	0.49
41:EL:60:VAL:HG11	41:EL:86:ARG:HG3	1.93	0.49
41:EL:324:LYS:HE3	42:EM:222:PRO:CG	2.41	0.49
42:FC:386:GLU:HB2	42:FC:390:ARG:HH12	1.77	0.49
42:FC:415:GLU:O	42:FC:416:GLY:C	2.50	0.49
41:FD:138:SER:O	41:FD:140:GLY:N	2.44	0.49
41:FH:42:LEU:HD13	41:FH:356:ILE:HD11	1.95	0.49
41:GD:138:SER:HA	41:GD:169:VAL:HG22	1.94	0.49
42:GE:11:GLN:N	45:GE:501:GTP:O1B	2.45	0.49
42:GE:209:ILE:HA	42:GE:212:ILE:HG12	1.95	0.49
41:GJ:259:PRO:HA	42:GK:404:PHE:CD1	2.47	0.49
42:HG:88:HIS:CD2	42:HG:90:GLU:H	2.30	0.49
42:HG:138:PHE:HA	42:HG:169:PHE:O	2.13	0.49
42:HK:168:GLU:HB3	42:HK:202:PHE:CE1	2.47	0.49
42:IC:136:LEU:HD11	42:IC:252:LEU:HD11	1.94	0.49
41:ID:66:VAL:HG11	41:ID:147:MET:HG2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:IJ:31:ASP:OD2	41:IJ:35:THR:OG1	2.30	0.49
41:IN:261:PRO:O	41:IN:263:LEU:N	2.45	0.49
42:JG:3:GLU:HA	42:JG:51:THR:HA	1.93	0.49
42:JK:62:VAL:HG22	42:MK:283:HIS:HD2	1.76	0.49
42:JK:191:THR:HB	42:JK:425:MET:HE1	1.94	0.49
42:JK:209:ILE:HG12	42:JK:302:MET:HG2	1.92	0.49
42:JK:275:VAL:HA	42:JK:368:LEU:HD21	1.93	0.49
41:KH:173:PRO:HG2	41:KH:174:LYS:HE2	1.94	0.49
42:KI:174:ALA:HB1	42:KI:207:GLU:HB2	1.94	0.49
41:KL:255:VAL:HA	42:KM:407:TRP:CE2	2.47	0.49
42:LC:138:PHE:HZ	42:LC:235:VAL:HG11	1.76	0.49
41:LD:392:LYS:HD2	41:LD:395:LEU:HD22	1.93	0.49
42:LI:179:THR:HG1	45:LI:501:GTP:HO3'	1.58	0.49
42:LK:320:ARG:O	42:LK:374:ALA:N	2.44	0.49
41:LL:170:VAL:HG21	41:LL:377:LEU:HD11	1.95	0.49
42:MI:172:TYR:CD2	42:MI:173:PRO:HD2	2.47	0.49
41:MJ:257:MET:O	41:MJ:370:ASN:ND2	2.44	0.49
41:ML:156:ARG:HD2	41:ML:160:PRO:HA	1.95	0.49
42:NA:139:HIS:HD2	42:NA:150:THR:HG21	1.77	0.49
41:NB:5:VAL:HG23	41:NB:130:LEU:HD21	1.94	0.49
41:NB:13:GLY:HA2	41:NB:16:ILE:HG22	1.94	0.49
41:NB:86:ARG:HB3	41:NB:86:ARG:HH11	1.78	0.49
41:ND:170:VAL:HB	41:ND:377:LEU:HD11	1.94	0.49
42:NE:228:ASN:OD1	45:NE:501:GTP:N1	2.45	0.49
41:NL:375:GLN:HE22	41:NL:379:LYS:HD2	1.78	0.49
41:NL:376:GLU:HA	41:NL:379:LYS:HG2	1.94	0.49
42:OA:109:THR:OG1	42:OA:411:GLU:O	2.30	0.49
42:OA:264:ARG:HH22	42:OA:427:ALA:HB1	1.77	0.49
41:OB:285:THR:O	41:OB:288:GLU:N	2.45	0.49
42:OE:261:PRO:HD2	42:OE:265:ILE:O	2.12	0.49
42:OG:16:ILE:HD11	42:OG:171:ILE:HD11	1.93	0.49
42:OG:259:LEU:HD22	42:OG:380:ASN:HD21	1.78	0.49
42:OG:273:ALA:H	42:OG:274:PRO:HD2	1.78	0.49
41:PB:7:LEU:HD11	41:PB:133:PHE:HB3	1.93	0.49
41:PD:268:PRO:HG2	41:PD:300:MET:HB2	1.94	0.49
42:PE:155:GLU:HB2	42:PE:197:HIS:CE1	2.48	0.49
42:PI:392:ASP:O	42:PI:394:LYS:N	2.45	0.49
42:PI:409:VAL:O	42:PI:410:GLY:C	2.51	0.49
42:PI:436:GLY:O	42:PI:437:MET:C	2.50	0.49
42:PK:104:ALA:HA	42:PK:108:TYR:CD2	2.47	0.49
41:PL:238:THR:HG22	41:PL:318:ARG:HH11	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:PL:244:GLY:HA2	41:PL:355:ASP:HB2	1.93	0.49
42:QC:204:VAL:HG21	42:QC:231:ILE:HD13	1.94	0.49
41:QF:385:PHE:CE2	41:QF:412:GLU:HB2	2.47	0.49
41:QH:77:ARG:HA	41:QH:82:GLY:CA	2.43	0.49
41:QH:193:VAL:HA	41:QH:264:HIS:CE1	2.45	0.49
42:QK:204:VAL:HG12	42:QK:302:MET:HB3	1.94	0.49
41:RD:198:GLU:HB2	41:RD:266:PHE:HE2	1.76	0.49
42:RE:75:ILE:HG23	42:RE:92:LEU:HD22	1.95	0.49
42:RE:291:ILE:HG22	42:RE:375:VAL:HG22	1.94	0.49
41:RH:107:THR:O	41:RH:109:GLY:N	2.45	0.49
41:RH:296:ALA:HA	41:RH:299:MET:HG2	1.95	0.49
42:RI:115:ILE:HD11	42:RI:152:LEU:HG	1.94	0.49
42:SC:195:LEU:HD11	42:SC:428:LEU:HD11	1.92	0.49
42:SG:139:HIS:CE1	42:SG:150:THR:HG21	2.47	0.49
42:SK:15:GLN:O	42:SK:228:ASN:ND2	2.45	0.49
42:TC:319:TYR:HB3	42:TC:323:VAL:HG21	1.94	0.49
41:TD:311:LEU:HG	41:TD:372:THR:HB	1.93	0.49
41:TD:317:PHE:N	41:TD:352:ALA:O	2.41	0.49
41:TF:50:TYR:OH	41:TF:237:THR:HG21	2.13	0.49
41:TL:4:ILE:HD13	41:TL:50:TYR:HE1	1.76	0.49
42:TM:47:ASP:N	42:TM:47:ASP:OD1	2.46	0.49
42:UC:344:VAL:HG11	42:UC:346:TRP:CE2	2.48	0.49
42:UE:66:VAL:HG11	42:UE:122:ILE:HG13	1.94	0.49
41:UH:174:LYS:HG2	41:UH:175:VAL:H	1.77	0.49
41:UL:170:VAL:HG11	41:UL:377:LEU:HD13	1.94	0.49
42:VC:274:PRO:HG3	42:VC:374:ALA:HA	1.95	0.49
42:VE:188:ILE:HG22	42:VE:421:ALA:HB1	1.93	0.49
41:VH:27:GLU:OE1	41:VH:241:ARG:NH1	2.45	0.49
42:VK:172:TYR:HE2	42:VK:390:ARG:NH2	2.05	0.49
42:VK:312:TYR:HA	42:VK:381:THR:HA	1.94	0.49
3:1I:155:LEU:HD11	42:SK:57:GLY:HA2	1.95	0.49
19:3L:428:SER:OG	19:3L:433:ASP:OD1	2.25	0.49
20:3O:61:ASP:N	20:3O:61:ASP:OD1	2.44	0.49
21:3U:221:ILE:HG23	21:3U:226:LYS:HG3	1.93	0.49
27:4R:136:GLU:O	27:4R:138:GLY:N	2.45	0.49
32:5M:119:ARG:O	32:5M:122:ARG:NE	2.45	0.49
33:5X:102:ASN:HA	33:5X:105:ALA:HB3	1.93	0.49
34:6C:322:ARG:O	34:6C:326:GLN:HG2	2.12	0.49
34:6E:403:ARG:HH22	34:6E:414:ASP:HB3	1.76	0.49
34:6K:43:THR:OG1	34:6K:44:HIS:N	2.46	0.49
34:6K:300:TRP:NE1	34:6L:410:GLU:OE2	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:6Q:388:LEU:HG	35:6Q:392:LYS:NZ	2.27	0.49
41:AD:170:VAL:HG11	41:AD:377:LEU:HD21	1.94	0.49
42:AE:316:CYS:HA	42:AE:352:LYS:HB3	1.94	0.49
42:AE:394:LYS:O	42:AE:398:MET:HG3	2.12	0.49
42:AI:79:ARG:HH22	42:AI:94:THR:HB	1.78	0.49
42:AI:279:GLU:HG2	42:AI:280:LYS:HG2	1.94	0.49
42:BC:68:VAL:HG22	42:BC:93:ILE:HD11	1.93	0.49
41:BD:206:ALA:HB2	41:BD:302:ALA:CB	2.37	0.49
42:BG:53:PHE:HB3	42:BG:61:HIS:HB3	1.94	0.49
42:BG:288:VAL:HB	42:BG:327:ASP:HB3	1.94	0.49
42:BK:172:TYR:CD1	42:BK:173:PRO:HD2	2.47	0.49
42:CC:59:GLY:O	42:CC:61:HIS:N	2.44	0.49
41:CD:244:GLY:HA2	41:CD:355:ASP:HB2	1.95	0.49
42:CE:7:VAL:HG23	42:CE:66:VAL:HB	1.94	0.49
41:CH:87:PRO:HD2	41:DH:281:TYR:CE2	2.48	0.49
42:CM:168:GLU:O	42:CM:202:PHE:N	2.30	0.49
41:DJ:53:GLU:CA	41:EJ:282:ARG:HH12	2.26	0.49
41:DJ:255:VAL:CG2	42:DK:100:ALA:HB1	2.43	0.49
42:DK:144:GLY:O	42:DK:148:GLY:N	2.40	0.49
42:DM:313:MET:HE1	42:DM:435:VAL:HG21	1.94	0.49
42:EM:163:LYS:O	42:EM:164:LYS:C	2.49	0.49
42:EM:319:TYR:HB3	42:EM:323:VAL:HG21	1.94	0.49
42:FC:257:THR:HG22	41:FD:397:TRP:CD1	2.46	0.49
42:FG:305:CYS:HB3	42:FG:387:ALA:HB2	1.93	0.49
42:FK:319:TYR:HA	42:FK:375:VAL:HA	1.94	0.49
42:FM:192:HIS:ND1	42:FM:421:ALA:HA	2.27	0.49
42:GG:223:THR:HG23	42:GG:225:THR:HG22	1.95	0.49
41:GH:305:PRO:HB3	41:GH:310:TYR:CE1	2.47	0.49
42:GI:71:GLU:HB2	42:GI:98:ASP:HB3	1.93	0.49
41:GL:49:VAL:HG12	41:GL:50:TYR:HD2	1.77	0.49
41:HB:305:PRO:HA	41:HB:373:ALA:HB2	1.94	0.49
42:HC:254:GLU:O	42:HC:255:PHE:C	2.49	0.49
41:HF:211:CYS:SG	41:HF:220:PRO:HB3	2.53	0.49
42:HG:256:GLN:O	42:HG:258:ASN:N	2.45	0.49
42:HK:141:PHE:HZ	42:HK:202:PHE:CD2	2.31	0.49
41:HL:60:VAL:HG11	41:IL:281:TYR:HA	1.95	0.49
42:HM:261:PRO:HB3	42:HM:346:TRP:CH2	2.48	0.49
42:II:10:GLY:HA2	42:II:145:THR:HG23	1.94	0.49
41:IJ:270:PHE:O	41:IJ:298:ASN:ND2	2.37	0.49
42:IK:2:ARG:NH1	41:IL:71:GLY:HA3	2.28	0.49
41:IN:187:LEU:HD11	41:IN:408:PHE:HE1	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:KH:281:TYR:OH	41:LH:83:GLN:O	2.29	0.49
42:KK:26:LEU:HD11	42:KK:364:PRO:HD2	1.94	0.49
41:KN:296:ALA:HB1	41:KN:305:PRO:HD2	1.93	0.49
41:LF:316:VAL:HA	41:LF:352:ALA:HB3	1.93	0.49
42:MK:317:LEU:O	42:MK:354:GLY:N	2.40	0.49
42:NC:401:LYS:O	42:NC:403:ALA:N	2.46	0.49
41:NF:322:SER:HB3	41:NF:325:GLU:HB2	1.93	0.49
42:NI:326:LYS:HB3	41:NJ:208:TYR:CE2	2.47	0.49
41:NJ:105:HIS:HD2	41:NJ:150:LEU:HB2	1.77	0.49
41:NL:2:ARG:HH12	41:NL:240:LEU:HA	1.76	0.49
41:NL:117:LEU:HA	41:NL:120:VAL:HG12	1.93	0.49
41:NL:392:LYS:HA	41:NL:395:LEU:HD23	1.93	0.49
41:OD:174:LYS:HD3	41:OD:205:GLU:HB3	1.94	0.49
41:OD:255:VAL:HG22	42:OE:407:TRP:CD2	2.48	0.49
42:OE:269:LEU:HD22	42:OE:303:VAL:HG21	1.93	0.49
42:OG:238:ILE:HG12	42:OG:378:LEU:HD11	1.93	0.49
42:OK:60:LYS:HD2	42:OK:61:HIS:N	2.28	0.49
41:OL:295:ASP:OD2	41:OL:297:LYS:NZ	2.45	0.49
42:PA:63:PRO:HB2	42:PA:91:GLN:OE1	2.13	0.49
41:PD:303:CYS:O	41:PD:304:ASP:C	2.50	0.49
42:PI:282:TYR:O	42:PI:284:GLU:N	2.43	0.49
41:PL:290:THR:O	41:PL:292:GLN:N	2.45	0.49
42:QC:9:VAL:HG13	42:QC:68:VAL:HG13	1.95	0.49
42:RC:195:LEU:HG	42:RC:196:GLU:HG2	1.93	0.49
42:RE:399:TYR:HD2	42:RE:404:PHE:HZ	1.61	0.49
42:RI:144:GLY:O	42:RI:148:GLY:N	2.45	0.49
42:SE:66:VAL:O	42:SE:67:PHE:C	2.51	0.49
42:SI:89:PRO:O	42:SI:90:GLU:C	2.50	0.49
41:SJ:107:THR:HG21	41:SJ:401:GLU:HB3	1.94	0.49
42:SM:5:ILE:HG12	42:SM:125:LEU:HB3	1.94	0.49
41:TD:31:ASP:OD2	41:TD:32:PRO:HD2	2.12	0.49
41:TD:308:GLY:HA3	41:TD:373:ALA:HB2	1.95	0.49
41:TF:313:VAL:HG12	41:TF:348:ASN:O	2.12	0.49
41:TH:15:GLN:OE1	41:TH:15:GLN:N	2.45	0.49
41:TL:318:ARG:HH12	41:TL:358:PRO:HB3	1.77	0.49
42:UC:94:THR:OG1	42:UC:95:GLY:N	2.46	0.49
42:UC:192:HIS:HD2	42:UC:421:ALA:HA	1.77	0.49
41:UD:132:GLY:HA3	41:UD:163:ILE:HB	1.95	0.49
41:UD:212:PHE:O	41:UD:216:LYS:CA	2.58	0.49
41:UD:216:LYS:NZ	41:UD:216:LYS:CB	2.71	0.49
42:VC:202:PHE:HE2	42:VC:378:LEU:HD13	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:VF:318:ARG:HG2	41:VF:354:CYS:HB3	1.94	0.49
41:WD:2:ARG:NH1	42:WE:72:PRO:HD2	2.27	0.49
41:WD:206:ALA:HB2	41:WD:302:ALA:HB2	1.94	0.49
42:WE:71:GLU:HB2	42:WE:98:ASP:HB3	1.93	0.49
42:WE:104:ALA:HA	42:WE:108:TYR:CD1	2.45	0.49
41:WH:199:THR:HG22	41:WH:264:HIS:CD2	2.47	0.49
41:WJ:95:SER:OG	41:WJ:108:GLU:OE1	2.31	0.49
5:1N:37:GLY:O	41:KD:416:ASN:ND2	2.45	0.49
13:2T:448:ARG:NH2	42:FI:58:ALA:H	2.10	0.49
19:3L:85:PHE:CD2	42:AK:282:TYR:HB3	2.48	0.49
19:3L:122:ILE:HG12	19:3L:133:VAL:HG22	1.93	0.49
20:3P:462:THR:H	41:FJ:216:LYS:HZ2	1.60	0.49
22:4B:196:PHE:HA	22:4B:199:LEU:HG	1.93	0.49
25:4I:302:GLU:HB2	25:4I:352:GLN:HG3	1.93	0.49
27:4R:187:VAL:N	27:4R:188:PRO:HD2	2.27	0.49
27:4S:76:TYR:OH	42:WK:127:ASP:OD1	2.31	0.49
31:5H:115:ARG:NH2	31:5H:138:VAL:O	2.45	0.49
31:5J:97:LEU:HA	31:5J:100:LYS:HD2	1.94	0.49
33:5W:209:PRO:O	33:5W:212:SER:OG	2.23	0.49
34:6C:251:GLN:O	34:6C:252:HIS:C	2.50	0.49
34:6G:196:ARG:HG3	34:6G:200:PHE:CE2	2.47	0.49
34:6L:396:ALA:O	34:6L:400:LEU:HD23	2.12	0.49
35:6R:206:GLU:O	35:6R:209:GLU:HG3	2.13	0.49
35:6R:240:PHE:O	35:6R:241:TYR:C	2.50	0.49
35:6S:343:ILE:HA	35:6S:388:LEU:HD11	1.94	0.49
35:6U:351:LYS:HB3	35:6V:238:VAL:HG13	1.94	0.49
35:6V:60:CYS:SG	35:6V:61:TYR:N	2.86	0.49
37:7C:110:LYS:HD2	42:SM:117:LEU:HD12	1.93	0.49
42:AC:209:ILE:HA	42:AC:212:ILE:HG12	1.93	0.49
42:AC:286:LEU:O	42:AC:373:ARG:NH1	2.39	0.49
41:AH:232:THR:HG21	41:AH:268:PRO:HB3	1.94	0.49
42:AI:346:TRP:O	41:AJ:388:MET:HG2	2.13	0.49
41:AJ:25:SER:HB2	41:AJ:30:ILE:HB	1.95	0.49
41:AJ:255:VAL:HG23	42:AK:407:TRP:CG	2.47	0.49
41:BD:189:VAL:HG11	41:BD:415:MET:HE2	1.94	0.49
42:BK:146:GLY:O	42:BK:150:THR:OG1	2.23	0.49
41:BL:7:LEU:HD22	41:BL:64:VAL:HG22	1.95	0.49
41:CB:14:ASN:ND2	41:CB:67:ASP:OD2	2.45	0.49
42:CG:256:GLN:HE21	42:CG:260:VAL:HG21	1.76	0.49
41:DB:171:PRO:HG3	41:DB:185:ALA:HB1	1.94	0.49
41:DJ:68:LEU:HD13	41:DJ:143:THR:HG23	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DJ:392:LYS:HD2	41:DJ:395:LEU:HD22	1.94	0.49
42:DK:264:ARG:O	42:DK:266:HIS:ND1	2.44	0.49
41:ED:173:PRO:HB3	41:ED:380:ARG:NE	2.27	0.49
41:EH:294:PHE:CE2	41:EH:333:VAL:HG11	2.48	0.49
42:EI:151:SER:O	42:EI:155:GLU:HG2	2.12	0.49
41:EJ:127:CYS:SG	41:EJ:129:CYS:N	2.86	0.49
42:EK:265:ILE:HG23	42:EK:432:TYR:CZ	2.48	0.49
41:EL:375:GLN:HG2	41:EL:422:TYR:CE1	2.48	0.49
41:FD:270:PHE:O	41:FD:298:ASN:ND2	2.46	0.49
41:FH:5:VAL:HG12	41:FH:62:ARG:HD3	1.93	0.49
42:FK:173:PRO:O	42:FK:174:ALA:C	2.50	0.49
42:FM:191:THR:HA	42:FM:194:THR:HB	1.95	0.49
42:FM:408:TYR:HB3	42:FM:413:MET:HB3	1.94	0.49
42:GC:172:TYR:CE2	42:GC:203:MET:HA	2.48	0.49
41:GD:41:ASP:O	41:GD:43:GLN:N	2.44	0.49
42:GG:241:SER:OG	42:GG:250:VAL:N	2.41	0.49
41:GH:129:CYS:HB3	42:GI:96:LYS:HD3	1.95	0.49
42:GI:429:GLU:O	42:GI:433:GLU:HG3	2.12	0.49
41:GJ:389:PHE:CZ	41:GJ:409:THR:HG22	2.47	0.49
41:HB:164:MET:N	41:HB:197:ASP:OD2	2.45	0.49
42:HC:262:TYR:HB3	42:HC:263:PRO:HD2	1.94	0.49
42:HC:303:VAL:HG22	42:HC:305:CYS:H	1.76	0.49
41:HJ:290:THR:HG21	41:HJ:329:GLN:HB3	1.94	0.49
42:IC:141:PHE:HB2	42:IC:173:PRO:HD3	1.95	0.49
42:IC:332:ILE:HA	42:IC:335:ILE:HG22	1.95	0.49
42:II:251:ASP:HB3	42:II:254:GLU:HG3	1.93	0.49
42:IK:107:HIS:O	42:IK:112:LYS:NZ	2.33	0.49
41:IN:27:GLU:HA	41:IN:359:ARG:HD3	1.93	0.49
41:IN:47:ILE:HG23	41:IN:51:TYR:HB2	1.93	0.49
41:JD:88:ASP:N	41:JD:88:ASP:OD1	2.45	0.49
42:KC:326:LYS:HG2	41:KD:212:PHE:CZ	2.48	0.49
41:KF:99:ASN:HD21	41:KF:178:THR:HG21	1.77	0.49
42:LC:9:VAL:HG21	42:LC:150:THR:HB	1.95	0.49
41:LD:383:GLU:HG2	41:LD:384:GLN:N	2.27	0.49
42:LG:71:GLU:HB2	42:LG:98:ASP:HB3	1.95	0.49
42:LI:306:ASP:OD1	42:LI:308:ARG:NH2	2.34	0.49
42:LK:292:THR:HG21	42:LK:331:ALA:HB1	1.93	0.49
41:MD:271:ALA:HB3	41:MD:272:PRO:HD3	1.93	0.49
42:MG:90:GLU:HB2	42:MG:121:ARG:HH21	1.78	0.49
42:MG:262:TYR:HE1	42:MG:346:TRP:CZ2	2.31	0.49
41:ML:116:VAL:HG11	41:ML:151:LEU:HD11	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:MN:313:VAL:HG21	41:MN:341:PHE:CE2	2.48	0.49
41:MN:362:LYS:HZ2	41:MN:362:LYS:H	1.60	0.49
41:NB:174:LYS:HD3	41:NB:205:GLU:HG3	1.95	0.49
41:NB:213:ARG:HH11	41:NB:297:LYS:HB3	1.78	0.49
42:NC:213:CYS:HB3	42:NC:219:ILE:HD11	1.95	0.49
41:NF:60:VAL:HG13	41:OF:281:TYR:CE2	2.47	0.49
42:OA:215:ARG:HG3	42:OA:216:ASN:OD1	2.13	0.49
41:OB:43:GLN:HG3	41:OB:242:PHE:CE1	2.48	0.49
42:OK:179:THR:HG21	45:OK:501:GTP:H3'	1.93	0.49
42:PE:146:GLY:O	42:PE:147:SER:C	2.51	0.49
42:PG:59:GLY:O	42:PG:61:HIS:N	2.46	0.49
41:PH:156:ARG:HG2	41:PH:195:ASN:HB3	1.93	0.49
41:PJ:170:VAL:HG21	41:PJ:377:LEU:HD21	1.92	0.49
41:PJ:201:CYS:SG	41:PJ:201:CYS:O	2.71	0.49
42:PK:326:LYS:HD2	41:PL:219:THR:HA	1.94	0.49
41:PL:67:ASP:HB3	41:PL:73:MET:HG2	1.95	0.49
41:QB:83:GLN:O	41:RB:281:TYR:OH	2.21	0.49
41:QD:173:PRO:HB3	41:QD:380:ARG:NH1	2.28	0.49
42:QI:163:LYS:O	42:QI:164:LYS:C	2.50	0.49
41:RD:313:VAL:HA	41:RD:369:GLY:HA2	1.94	0.49
42:RG:15:GLN:O	42:RG:228:ASN:ND2	2.38	0.49
42:RG:75:ILE:HG21	42:RG:94:THR:HB	1.94	0.49
42:RI:84:ARG:NH1	42:RI:85:GLN:HG2	2.27	0.49
42:RI:133:GLN:OE1	42:RI:242:LEU:HD11	2.11	0.49
41:RJ:100:ASN:C	41:RJ:102:ALA:H	2.16	0.49
42:SG:174:ALA:HB3	42:SG:178:SER:H	1.78	0.49
41:SJ:54:ALA:HA	41:TJ:283:ALA:HB2	1.94	0.49
42:TC:133:GLN:O	42:TC:165:SER:OG	2.30	0.49
42:TI:139:HIS:CD2	42:TI:150:THR:HG23	2.48	0.49
41:TJ:163:ILE:HD11	41:TJ:251:ARG:HB2	1.93	0.49
42:TK:288:VAL:HG13	42:TK:323:VAL:HG12	1.94	0.49
41:TL:162:ARG:HE	41:TL:251:ARG:HH22	1.60	0.49
42:UC:260:VAL:HG23	41:UD:397:TRP:HH2	1.77	0.49
41:UD:267:MET:HE1	41:UD:303:CYS:HB2	1.95	0.49
42:WC:107:HIS:HA	42:WC:152:LEU:HD11	1.94	0.49
41:WF:66:VAL:HA	41:WF:91:VAL:O	2.12	0.49
7:1U:9:ARG:HH12	41:IL:44:LEU:HD12	1.78	0.49
19:3K:164:HIS:HE1	19:3K:165:TRP:NE1	2.10	0.49
20:3P:180:ASP:N	20:3P:180:ASP:OD1	2.46	0.49
21:3U:189:LYS:NZ	21:3U:190:ARG:O	2.45	0.49
22:3Z:34:THR:HB	42:CI:219:ILE:HA	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:4D:53:MET:HG2	42:UK:83:TYR:CD2	2.48	0.49
26:4L:128:GLN:HA	26:4L:131:ILE:HG12	1.94	0.49
27:4T:170:LYS:HZ1	27:4T:224:LEU:HD11	1.77	0.49
31:5H:105:VAL:HG12	31:5H:107:GLN:H	1.78	0.49
34:6A:293:THR:HA	34:6B:411:LEU:HD22	1.95	0.49
34:6F:284:PHE:HD1	34:6K:446:GLN:HE22	1.61	0.49
34:6F:291:ASP:HB3	34:6J:67:PRO:HB3	1.94	0.49
35:6V:22:LEU:HD12	35:6V:23:PRO:HD2	1.94	0.49
35:6V:183:ILE:HD13	35:6V:293:LEU:HD22	1.95	0.49
35:6W:122:GLU:HA	35:6W:125:VAL:HG12	1.94	0.49
37:7E:235:VAL:HG13	41:OF:332:ASN:HB3	1.94	0.49
38:7H:45:ALA:HB3	42:IK:340:THR:HG23	1.94	0.49
42:AG:109:THR:HG21	42:AG:411:GLU:HB2	1.93	0.49
42:AI:163:LYS:O	42:AI:164:LYS:C	2.50	0.49
42:BC:405:VAL:HG13	42:BC:418:PHE:HE2	1.77	0.49
41:BF:317:PHE:N	41:BF:352:ALA:O	2.45	0.49
42:BI:97:GLU:HB2	42:BI:110:ILE:HD13	1.94	0.49
42:BI:317:LEU:HB3	42:BI:319:TYR:HE1	1.76	0.49
41:CB:209:ASP:HB3	41:CB:213:ARG:HH21	1.77	0.49
41:CF:303:CYS:HB3	41:CF:377:LEU:HD13	1.94	0.49
41:CH:54:ALA:CB	41:DH:282:ARG:H	2.24	0.49
41:CL:137:HIS:ND1	41:CL:144:GLY:O	2.46	0.49
42:CM:102:ASN:HB3	42:CM:105:ARG:HG3	1.94	0.49
42:DG:399:TYR:CE1	42:DG:418:PHE:HB3	2.47	0.49
41:DJ:167:PHE:HB3	41:DJ:202:ILE:HD11	1.95	0.49
41:DJ:248:ALA:HB3	41:DJ:352:ALA:HB2	1.94	0.49
42:DK:214:ARG:HG3	42:DK:215:ARG:N	2.27	0.49
41:EF:320:ARG:HE	41:EF:355:ASP:HB2	1.77	0.49
42:EG:36:MET:O	42:EG:37:PRO:C	2.51	0.49
42:EK:101:ASN:O	42:EK:182:VAL:HG11	2.12	0.49
42:EM:105:ARG:HA	42:EM:109:THR:CB	2.41	0.49
42:EM:394:LYS:O	42:EM:397:LEU:HG	2.13	0.49
41:FD:97:ALA:O	41:FD:98:GLY:C	2.48	0.49
41:FD:297:LYS:O	41:FD:299:MET:N	2.45	0.49
42:FG:35:GLN:HA	42:FG:59:GLY:O	2.12	0.49
41:FH:6:HIS:HB2	41:FH:134:GLN:HE21	1.76	0.49
42:FI:7:VAL:HB	42:FI:137:ILE:HG12	1.94	0.49
42:FK:171:ILE:HB	42:FK:203:MET:HB3	1.94	0.49
41:FL:26:ASP:OD1	41:FL:27:GLU:N	2.45	0.49
42:GC:109:THR:O	42:GC:112:LYS:NZ	2.43	0.49
41:GD:7:LEU:HB3	41:GD:135:LEU:HD13	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:GD:295:ASP:HB3	41:GD:298:ASN:ND2	2.26	0.49
42:GE:88:HIS:HB3	42:GE:91:GLN:HG2	1.94	0.49
42:GM:36:MET:O	42:GM:38:SER:N	2.44	0.49
42:HC:5:ILE:HG23	42:HC:64:ARG:HD2	1.94	0.49
41:HD:346:PRO:HG2	42:HE:394:LYS:HA	1.92	0.49
41:HF:372:THR:HG21	41:HF:426:GLN:HB2	1.94	0.49
42:HG:233:GLN:HE21	42:HG:368:LEU:HD12	1.78	0.49
42:HI:56:THR:HA	42:II:285:GLN:HE21	1.78	0.49
42:HI:171:ILE:HD13	45:HI:501:GTP:HN22	1.78	0.49
41:HJ:5:VAL:HG23	41:HJ:130:LEU:HD21	1.94	0.49
41:HL:8:GLN:HE22	41:HL:21:TRP:HE1	1.60	0.49
41:ID:117:LEU:HD11	41:ID:154:LYS:HB3	1.95	0.49
41:IF:107:THR:HG21	41:IF:401:GLU:HB2	1.94	0.49
41:IH:327:ASP:HB3	42:II:177:VAL:HG11	1.95	0.49
41:JL:236:VAL:HG12	41:JL:368:ILE:HD11	1.95	0.49
41:JL:391:ARG:O	41:JL:392:LYS:C	2.51	0.49
41:KH:173:PRO:HA	41:KH:380:ARG:HD3	1.95	0.49
42:KK:51:THR:HG21	42:KK:243:ARG:HG2	1.94	0.49
41:LD:74:ASP:HA	41:LD:77:ARG:HG2	1.95	0.49
41:LN:392:LYS:HA	41:LN:395:LEU:HD23	1.94	0.49
42:MC:105:ARG:HA	42:MC:109:THR:HB	1.94	0.49
42:ME:262:TYR:HD1	42:ME:265:ILE:HD11	1.78	0.49
41:MH:289:LEU:HD22	41:MH:363:MET:HG2	1.94	0.49
42:NC:115:ILE:HA	42:NC:118:VAL:HG12	1.94	0.49
41:NF:299:MET:HG3	41:NF:305:PRO:HG3	1.94	0.49
41:NJ:392:LYS:HG2	41:NJ:395:LEU:HD12	1.95	0.49
41:OF:234:SER:O	41:OF:241:ARG:NH2	2.45	0.49
42:OG:21:TRP:CZ2	42:OG:65:ALA:HB2	2.47	0.49
41:OJ:296:ALA:HA	41:OJ:299:MET:HG3	1.95	0.49
42:PA:49:PHE:CD2	42:PA:55:GLU:HG3	2.48	0.49
41:PB:237:THR:O	41:PB:239:CYS:N	2.46	0.49
41:PB:425:TYR:O	41:PB:426:GLN:C	2.51	0.49
41:PD:36:TYR:HB2	41:PD:59:TYR:HE1	1.77	0.49
42:PE:110:ILE:O	42:PE:112:LYS:N	2.44	0.49
41:PH:50:TYR:HE1	41:PH:237:THR:HG21	1.77	0.49
41:PL:399:THR:HA	41:PL:403:MET:O	2.13	0.49
41:QH:112:LEU:O	41:QH:113:VAL:C	2.50	0.49
41:QH:159:TYR:HB3	41:QH:162:ARG:HD2	1.95	0.49
41:QH:305:PRO:C	41:QH:307:HIS:H	2.16	0.49
41:QH:385:PHE:CZ	41:QH:408:PHE:HB3	2.47	0.49
42:QI:90:GLU:O	42:QI:91:GLN:C	2.50	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:QL:398:TYR:HB3	41:QL:408:PHE:HZ	1.78	0.49
41:RD:378:PHE:HA	41:RD:381:ILE:HB	1.94	0.49
41:RF:207:LEU:HD21	41:RF:229:VAL:HG22	1.94	0.49
42:RI:49:PHE:HD1	42:RI:53:PHE:HB2	1.77	0.49
41:RL:342:VAL:HB	41:RL:344:TRP:HE3	1.77	0.49
41:SD:3:GLU:HG3	41:SD:49:VAL:HA	1.95	0.49
41:SD:7:LEU:HD21	41:SD:151:LEU:HD23	1.93	0.49
42:SG:66:VAL:HG11	42:SG:118:VAL:HG23	1.93	0.49
42:SG:180:ALA:HB3	42:SG:183:GLU:HB2	1.94	0.49
41:SH:204:ASN:HB3	41:SH:208:TYR:HE2	1.76	0.49
42:SK:195:LEU:HD12	42:SK:266:HIS:HE1	1.78	0.49
42:TC:188:ILE:HG21	42:TC:395:PHE:CE2	2.47	0.49
42:TK:99:ALA:HB1	42:TK:105:ARG:HB2	1.95	0.49
41:UD:327:ASP:HB2	42:UE:177:VAL:HG11	1.95	0.49
41:UF:274:THR:OG1	41:UF:275:SER:N	2.44	0.49
41:UF:330:MET:SD	41:UF:349:VAL:HG11	2.52	0.49
42:UM:73:THR:O	42:UM:74:VAL:HG13	2.13	0.49
41:VD:49:VAL:HG21	41:VD:241:ARG:HB3	1.94	0.49
42:VI:133:GLN:HG3	42:VI:252:LEU:HB2	1.94	0.49
41:VL:46:ARG:NH2	42:VM:76:ASP:OD2	2.44	0.49
41:WF:328:GLU:HG2	41:WF:329:GLN:N	2.28	0.49
41:WJ:49:VAL:HG11	41:WJ:241:ARG:HB3	1.94	0.49
9:2D:441:ARG:HH12	41:IJ:23:VAL:HG22	1.77	0.49
21:3T:75:LEU:HD21	42:LE:406:HIS:HA	1.94	0.49
22:4A:192:PHE:HD1	42:DK:221:ARG:HB3	1.77	0.49
24:4F:61:GLN:HA	24:4F:61:GLN:NE2	2.27	0.49
25:4J:9:PHE:CD1	25:4J:60:LEU:HD12	2.48	0.49
25:4J:286:TYR:O	25:4J:296:TYR:OH	2.20	0.49
27:4R:56:PRO:HG3	41:AH:309:ARG:HG3	1.93	0.49
32:5M:377:GLN:HA	32:5M:380:GLU:HG2	1.95	0.49
32:5N:311:LYS:NZ	33:5X:413:ARG:CD	2.75	0.49
33:5R:202:LYS:HG3	33:5S:319:GLU:HB2	1.95	0.49
34:6C:355:ALA:O	34:6C:356:ASP:C	2.51	0.49
34:6G:173:GLU:OE1	34:6G:322:ARG:NH1	2.46	0.49
34:6K:192:LEU:HB2	34:6K:226:ILE:HG21	1.95	0.49
35:6V:91:LEU:HD13	35:6V:94:ARG:HH21	1.77	0.49
38:7H:200:GLY:N	42:IC:338:LYS:HE3	2.27	0.49
38:7I:240:HIS:ND1	42:HM:119:LEU:HB3	2.28	0.49
41:AD:25:SER:HB3	41:AD:30:ILE:HB	1.93	0.49
41:AD:198:GLU:OE1	41:AD:200:TYR:OH	2.24	0.49
41:AH:137:HIS:HE1	41:AH:166:THR:HG23	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BE:2:ARG:NE	42:BE:242:LEU:O	2.37	0.49
42:BE:185:TYR:OH	42:BE:398:MET:HB3	2.12	0.49
42:BG:439:SER:OG	41:BH:390:ARG:NH2	2.42	0.49
42:BI:163:LYS:O	42:BI:164:LYS:C	2.50	0.49
42:BK:70:LEU:HD12	42:BK:145:THR:HG22	1.94	0.49
41:BL:139:LEU:HB2	41:BL:170:VAL:HA	1.95	0.49
42:CC:34:GLY:O	42:CC:35:GLN:C	2.51	0.49
42:CE:252:LEU:HA	42:CE:255:PHE:HD2	1.77	0.49
41:CJ:244:GLY:HA2	41:CJ:354:CYS:C	2.33	0.49
42:CK:240:ALA:HB1	42:CK:356:ASN:HD22	1.76	0.49
42:CK:263:PRO:HD3	41:CL:396:HIS:CE1	2.47	0.49
42:DE:265:ILE:HG23	42:DE:432:TYR:CZ	2.48	0.49
41:DJ:59:TYR:HD2	41:EJ:281:TYR:HH	1.58	0.49
41:DJ:68:LEU:HB2	41:DJ:143:THR:OG1	2.13	0.49
41:DJ:88:ASP:C	41:DJ:90:PHE:H	2.16	0.49
42:DK:1:MET:O	42:DK:2:ARG:C	2.51	0.49
41:ED:28:HIS:HA	41:ED:242:PHE:HZ	1.77	0.49
42:EE:2:ARG:HB3	42:EE:133:GLN:HG3	1.95	0.49
42:EG:132:LEU:HD23	42:EG:164:LYS:HG2	1.93	0.49
42:EK:430:LYS:HA	42:EK:433:GLU:HB3	1.94	0.49
42:FC:100:ALA:O	42:FC:101:ASN:C	2.50	0.49
41:FH:211:CYS:O	41:FH:217:LEU:N	2.45	0.49
41:FH:256:ASN:ND2	41:FH:350:LYS:HD2	2.28	0.49
41:FH:258:VAL:HB	42:FI:407:TRP:HE1	1.77	0.49
41:FL:215:LEU:HB3	41:FL:217:LEU:HG	1.95	0.49
41:FL:323:MET:SD	41:FL:353:VAL:HG11	2.53	0.49
41:GF:64:VAL:HG12	41:GF:89:ASN:OD1	2.13	0.49
41:GF:180:VAL:O	41:GF:184:ASN:ND2	2.45	0.49
41:GF:322:SER:HA	42:GG:223:THR:HB	1.95	0.49
41:HD:320:ARG:HA	41:HD:320:ARG:CZ	2.41	0.49
41:HJ:311:LEU:HD23	41:HJ:344:TRP:HZ2	1.78	0.49
41:ID:272:PRO:HG3	41:ID:364:SER:HA	1.95	0.49
42:IK:10:GLY:HA2	42:IK:145:THR:HG23	1.95	0.49
41:IN:395:LEU:C	41:IN:397:TRP:H	2.15	0.49
42:JC:350:GLY:H	41:JD:179:VAL:HG23	1.76	0.49
41:JD:61:PRO:HD2	41:JD:84:ILE:O	2.12	0.49
42:JI:325:PRO:O	42:JI:329:ASN:ND2	2.46	0.49
41:JL:193:VAL:HB	41:JL:262:ARG:HE	1.76	0.49
42:JM:206:ASN:HD21	45:JM:501:GTP:HN22	1.58	0.49
42:KE:16:ILE:HD11	42:KE:171:ILE:HD11	1.95	0.49
41:KF:193:VAL:HG23	41:KF:194:GLU:HG3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:LG:275:VAL:HG23	42:LG:368:LEU:HD21	1.94	0.49
42:LK:3:GLU:HA	42:LK:51:THR:HA	1.93	0.49
41:LN:161:ASP:OD1	41:LN:161:ASP:N	2.46	0.49
42:MI:142:GLY:HA2	42:MI:183:GLU:HB2	1.95	0.49
41:ML:2:ARG:HD2	41:ML:240:LEU:HD13	1.94	0.49
42:NA:288:VAL:O	42:NA:291:ILE:HG12	2.12	0.49
41:NH:103:LYS:HG2	41:NH:401:GLU:HG2	1.95	0.49
41:NH:133:PHE:HZ	41:NH:159:TYR:HB2	1.78	0.49
41:NL:22:GLU:HA	41:NL:81:PHE:HD2	1.77	0.49
42:OA:254:GLU:HA	42:OA:257:THR:HG22	1.94	0.49
41:OD:270:PHE:HD2	41:OD:273:LEU:HG	1.77	0.49
41:OD:293:MET:HB3	41:OD:367:PHE:CD1	2.48	0.49
41:OF:42:LEU:HD11	41:OF:243:PRO:HG3	1.94	0.49
42:OK:372:GLN:HB2	42:OK:373:ARG:HD3	1.95	0.49
42:PA:10:GLY:H	42:PA:69:ASP:HB2	1.78	0.49
42:PC:48:SER:HB3	42:PC:243:ARG:CZ	2.42	0.49
42:PC:335:ILE:HA	42:PC:338:LYS:HD2	1.94	0.49
41:PD:209:ASP:HA	41:PD:212:PHE:CE1	2.47	0.49
41:PF:108:GLU:O	41:PF:109:GLY:C	2.50	0.49
41:PF:254:ALA:HA	41:PF:257:MET:HB2	1.95	0.49
42:PG:219:ILE:HD12	42:PG:226:ASN:ND2	2.28	0.49
42:PI:109:THR:O	42:PI:110:ILE:C	2.51	0.49
42:PI:288:VAL:O	42:PI:289:ALA:C	2.51	0.49
41:PL:372:THR:O	41:PL:374:ILE:N	2.46	0.49
42:QC:149:PHE:O	42:QC:153:LEU:N	2.40	0.49
41:QD:341:PHE:HD1	41:QD:348:ASN:HD22	1.61	0.49
41:QH:324:LYS:HE3	42:QI:210:TYR:CD1	2.48	0.49
42:QK:23:LEU:O	42:QK:27:GLU:HG2	2.12	0.49
41:QL:249:ASP:O	41:QL:250:LEU:C	2.49	0.49
41:RD:269:GLY:HA2	41:RD:300:MET:CG	2.40	0.49
41:RF:355:ASP:O	41:RF:356:ILE:C	2.50	0.49
42:RG:202:PHE:CE1	42:RG:238:ILE:HD13	2.48	0.49
42:RG:261:PRO:HG3	42:RG:313:MET:SD	2.51	0.49
41:SD:210:ILE:HD12	41:SD:273:LEU:HD21	1.94	0.49
42:SE:285:GLN:O	42:SE:287:SER:N	2.45	0.49
42:SE:324:VAL:O	42:SE:326:LYS:N	2.46	0.49
42:TC:65:ALA:HB3	42:TC:87:PHE:CZ	2.47	0.49
41:TD:324:LYS:O	41:TD:328:GLU:HB2	2.12	0.49
41:TD:350:LYS:NZ	41:TD:351:THR:O	2.40	0.49
41:TH:337:ASN:HB2	41:TH:340:TYR:HE1	1.78	0.49
42:TI:63:PRO:HD2	42:TI:87:PHE:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:TJ:21:TRP:CE3	41:TJ:24:ILE:HD11	2.48	0.49
41:TJ:309:ARG:NH2	41:TJ:426:GLN:O	2.45	0.49
41:TL:404:ASP:O	41:TL:406:MET:N	2.44	0.49
42:UC:224:TYR:HB3	45:UC:501:GTP:O6	2.13	0.49
42:UG:254:GLU:OE1	41:UH:99:ASN:ND2	2.45	0.49
42:UM:8:HIS:CE1	42:UM:21:TRP:HE1	2.30	0.49
41:VD:237:THR:O	41:VD:241:ARG:NE	2.44	0.49
41:VH:167:PHE:CD1	41:VH:233:MET:HG2	2.48	0.49
42:WC:396:ASP:OD2	42:WC:422:ARG:NH2	2.38	0.49
42:WE:257:THR:HA	41:WF:397:TRP:CZ2	2.47	0.49
42:WG:182:VAL:HG23	42:WG:186:ASN:HD21	1.76	0.49
42:WM:319:TYR:CE1	42:WM:328:VAL:HG13	2.47	0.49
9:2D:494:ILE:HG23	42:IK:285:GLN:HB2	1.95	0.49
11:2M:455:ILE:HD11	23:4D:33:LEU:HD21	1.95	0.49
16:3D:272:VAL:N	41:VD:340:TYR:OH	2.20	0.49
19:3K:432:GLU:O	41:FH:276:ARG:NH2	2.46	0.49
20:3O:443:PHE:HD1	20:3O:469:ARG:HH11	1.59	0.49
22:4A:192:PHE:CE1	41:DJ:322:SER:HA	2.47	0.49
24:4G:403:LEU:HB3	24:4G:407:ARG:NH1	2.25	0.49
27:4Q:239:ASP:O	27:4Q:243:ASN:ND2	2.44	0.49
27:4T:213:TYR:HA	41:WN:122:LYS:HD3	1.94	0.49
29:4Y:60:THR:O	29:4Y:63:SER:OG	2.26	0.49
32:5M:89:GLU:O	32:5M:92:LEU:N	2.43	0.49
33:5V:331:ARG:HA	33:5V:335:GLN:HG3	1.95	0.49
34:6C:468:ILE:HD12	34:6C:468:ILE:HA	1.70	0.49
34:6D:409:ILE:O	34:6D:410:GLU:C	2.51	0.49
34:6L:167:MET:SD	34:6L:311:SER:OG	2.69	0.49
35:6W:48:THR:HG23	35:6W:49:ALA:H	1.78	0.49
37:7D:68:PRO:HG3	42:TC:341:ILE:HD11	1.94	0.49
37:7E:219:GLY:HA2	42:OG:308:ARG:HD2	1.94	0.49
42:AI:208:ALA:O	42:AI:212:ILE:HG12	2.13	0.49
41:AL:16:ILE:HB	41:AL:136:THR:HG21	1.95	0.49
41:BB:331:LEU:HD22	42:BC:177:VAL:HB	1.95	0.49
41:BF:234:SER:O	41:BF:241:ARG:NH2	2.46	0.49
41:BF:346:PRO:HG2	42:BG:394:LYS:HG3	1.94	0.49
42:BI:105:ARG:O	42:BI:110:ILE:HG22	2.13	0.49
41:BJ:272:PRO:HG3	41:BJ:364:SER:HA	1.95	0.49
42:BK:196:GLU:HG3	42:BK:197:HIS:CD2	2.48	0.49
41:BL:7:LEU:N	41:BL:134:GLN:O	2.45	0.49
41:BL:91:VAL:HG11	41:BL:116:VAL:HG23	1.95	0.49
42:CC:9:VAL:HB	42:CC:68:VAL:HG13	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CC:201:ALA:O	42:CC:203:MET:N	2.46	0.49
41:CF:21:TRP:HZ2	41:CF:63:ALA:HB2	1.78	0.49
41:CF:174:LYS:H	41:CF:174:LYS:HG2	1.37	0.49
42:CG:223:THR:OG1	42:CG:224:TYR:N	2.44	0.49
42:CK:180:ALA:HB3	42:CK:183:GLU:HG2	1.93	0.49
41:CL:330:MET:SD	41:CL:349:VAL:HG11	2.53	0.49
41:CL:399:THR:HG22	41:CL:403:MET:HB2	1.94	0.49
41:DD:324:LYS:HB2	42:DE:222:PRO:HD2	1.95	0.49
41:DH:226:ASN:ND2	43:DH:501:GDP:O6	2.46	0.49
42:DI:202:PHE:CD1	42:DI:378:LEU:HD23	2.47	0.49
41:DJ:316:VAL:HG13	41:DJ:352:ALA:HB3	1.94	0.49
42:DM:297:GLU:O	42:DM:299:ALA:N	2.40	0.49
42:EC:14:VAL:HG12	42:EC:67:PHE:CD2	2.46	0.49
42:EC:87:PHE:HB3	42:EC:92:LEU:HD11	1.95	0.49
41:ED:271:ALA:HA	41:ED:292:GLN:HG2	1.95	0.49
42:EI:344:VAL:HG12	42:EI:346:TRP:H	1.77	0.49
41:EJ:105:HIS:CD2	41:EJ:150:LEU:HD12	2.47	0.49
42:EM:21:TRP:HE1	42:EM:65:ALA:HB2	1.78	0.49
42:FC:288:VAL:HG22	42:FC:323:VAL:HG13	1.94	0.49
41:FD:11:GLN:O	41:FD:15:GLN:HG2	2.13	0.49
42:FE:258:ASN:HD22	41:FF:180:VAL:HG23	1.78	0.49
41:FF:138:SER:HA	41:FF:169:VAL:HB	1.95	0.49
41:FF:253:LEU:O	41:FF:257:MET:HG2	2.13	0.49
42:FG:229:ARG:HD3	42:FG:363:VAL:HG21	1.93	0.49
41:FH:67:ASP:OD1	41:FH:68:LEU:N	2.38	0.49
42:FI:237:SER:HB3	42:FI:272:TYR:OH	2.13	0.49
42:FK:337:THR:O	42:FK:338:LYS:C	2.50	0.49
42:GE:115:ILE:HG23	42:GE:119:LEU:HD23	1.95	0.49
41:GL:221:THR:HG23	41:GL:223:GLY:H	1.77	0.49
42:GM:156:ARG:HA	42:GM:159:VAL:HG22	1.95	0.49
42:HC:111:GLY:O	42:HC:112:LYS:C	2.51	0.49
42:HG:110:ILE:HG13	42:HG:111:GLY:H	1.78	0.49
42:HG:208:ALA:HB2	42:HG:304:LYS:HG2	1.94	0.49
42:HG:403:ALA:O	42:HG:404:PHE:C	2.51	0.49
41:HH:12:CYS:SG	41:HH:138:SER:N	2.85	0.49
42:HI:206:ASN:O	42:HI:207:GLU:C	2.51	0.49
41:HJ:427:ASP:O	41:HJ:428:ALA:C	2.49	0.49
42:HM:183:GLU:HB3	42:HM:184:PRO:HD3	1.95	0.49
42:IC:172:TYR:HE1	42:IC:388:TRP:HE1	1.59	0.49
42:JC:88:HIS:CE1	42:JC:90:GLU:HG3	2.47	0.49
42:JK:62:VAL:HG22	42:MK:283:HIS:CD2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:JM:88:HIS:O	42:JM:89:PRO:C	2.51	0.49
41:LJ:372:THR:HG23	41:LJ:422:TYR:HB3	1.95	0.49
41:LL:304:ASP:OD2	41:LL:306:ARG:HB2	2.13	0.49
41:MD:139:LEU:O	41:MD:171:PRO:HD3	2.13	0.49
42:MI:306:ASP:HB3	42:MI:309:HIS:CD2	2.48	0.49
42:MM:12:ALA:HB2	45:MM:501:GTP:H5''	1.94	0.49
42:MM:228:ASN:OD1	45:MM:501:GTP:N1	2.45	0.49
42:MM:324:VAL:HG12	42:MM:326:LYS:H	1.76	0.49
41:MN:52:ASN:HD22	41:MN:60:VAL:HG23	1.78	0.49
42:NA:66:VAL:HA	42:NA:91:GLN:HG3	1.94	0.49
42:NI:174:ALA:HB1	42:NI:207:GLU:HB2	1.95	0.49
41:NL:311:LEU:HB2	41:NL:370:ASN:HB3	1.93	0.49
42:OC:60:LYS:HZ3	42:OC:61:HIS:H	1.61	0.49
41:OD:149:THR:OG1	41:OD:188:SER:OG	2.29	0.49
41:OF:167:PHE:CE2	41:OF:233:MET:HG3	2.48	0.49
42:OI:70:LEU:HA	42:OI:95:GLY:HA3	1.94	0.49
42:OK:16:ILE:HA	42:OK:228:ASN:HB2	1.94	0.49
42:PC:60:LYS:O	42:PC:61:HIS:C	2.50	0.49
42:QC:345:ASP:OD2	41:QD:390:ARG:NH2	2.45	0.49
42:QC:438:ASP:HA	41:QD:391:ARG:HH22	1.77	0.49
41:QF:39:ASP:OD1	41:QF:39:ASP:N	2.44	0.49
41:QF:86:ARG:HD2	41:QF:89:ASN:HD22	1.78	0.49
42:QG:168:GLU:OE1	42:QG:198:SER:OG	2.26	0.49
42:QI:273:ALA:HB3	42:QI:274:PRO:HD3	1.95	0.49
41:QL:395:LEU:O	41:QL:399:THR:N	2.46	0.49
41:RD:42:LEU:HG	41:RD:356:ILE:HD11	1.95	0.49
42:RE:399:TYR:CD2	42:RE:404:PHE:HZ	2.31	0.49
41:RF:163:ILE:HD13	41:RF:250:LEU:HB3	1.94	0.49
41:RJ:66:VAL:HA	41:RJ:91:VAL:O	2.11	0.49
42:RK:263:PRO:HG3	41:RL:396:HIS:CG	2.48	0.49
41:SD:42:LEU:HD12	41:SD:45:GLU:OE2	2.13	0.49
42:SE:91:GLN:HA	42:SE:121:ARG:HG2	1.95	0.49
42:SG:108:TYR:CD2	42:SG:413:MET:HB2	2.47	0.49
41:SJ:258:VAL:HG23	42:SK:407:TRP:HE1	1.77	0.49
41:SL:174:LYS:HG3	41:SL:205:GLU:HG2	1.94	0.49
42:TE:396:ASP:OD2	42:TE:422:ARG:NH2	2.46	0.49
42:TG:133:GLN:HE22	42:TG:252:LEU:HB3	1.77	0.49
41:TH:89:ASN:HA	41:TH:119:VAL:HG11	1.94	0.49
42:TI:319:TYR:HB2	42:TI:355:ILE:HD13	1.93	0.49
42:TI:328:VAL:HG21	42:TI:355:ILE:HD11	1.94	0.49
42:TK:238:ILE:HG22	42:TK:239:THR:HG23	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:TM:236:SER:O	42:TM:243:ARG:NH2	2.46	0.49
42:UE:311:LYS:HD3	42:UE:344:VAL:HB	1.94	0.49
42:UE:395:PHE:HE2	42:UE:422:ARG:HB2	1.77	0.49
41:UL:39:ASP:OD2	41:UL:43:GLN:NE2	2.41	0.49
41:UL:131:GLN:HE22	41:UL:240:LEU:HD22	1.77	0.49
41:UL:237:THR:HG22	41:UL:250:LEU:HD11	1.94	0.49
41:VF:130:LEU:O	41:VF:162:ARG:NH1	2.45	0.49
41:VL:25:SER:O	41:VL:29:GLY:N	2.42	0.49
41:VL:68:LEU:HD21	41:VL:109:GLY:HA2	1.95	0.49
41:WD:306:ARG:HG3	41:WD:340:TYR:CE2	2.48	0.49
42:WE:212:ILE:HD13	42:WE:215:ARG:HH12	1.77	0.49
42:WG:298:PRO:HB3	42:WG:307:PRO:HD2	1.94	0.49
42:WK:244:PHE:HB2	42:WK:356:ASN:HD21	1.76	0.49
42:WM:16:ILE:HA	42:WM:228:ASN:HB3	1.95	0.49
8:1Y:29:VAL:HG11	27:4P:206:ASN:HD21	1.78	0.49
15:3A:97:MET:HG3	42:JK:83:TYR:HE2	1.78	0.49
19:3J:421:ARG:HH12	42:EC:43:GLY:CA	2.22	0.49
19:3K:456:VAL:HG23	19:3K:457:ARG:H	1.77	0.49
20:3O:491:GLU:HG3	20:3O:492:GLU:H	1.78	0.49
20:3P:238:HIS:O	20:3P:247:GLU:N	2.46	0.49
27:4Q:61:ALA:HB2	41:AF:423:GLN:HB3	1.95	0.49
30:5A:161:GLU:HA	30:5A:164:LEU:HB2	1.95	0.49
33:5S:258:ARG:O	33:5S:261:THR:OG1	2.26	0.49
33:5T:237:ILE:HD13	33:5T:240:ARG:HH22	1.78	0.49
35:6R:165:PRO:HD2	35:6R:418:ILE:HG21	1.94	0.49
35:6S:148:PRO:HA	35:6S:437:TYR:CE2	2.48	0.49
35:6T:311:LEU:HB3	35:6T:423:LEU:HD12	1.95	0.49
35:6U:200:GLN:NE2	35:6U:271:GLU:OE2	2.45	0.49
35:6W:131:LEU:HD22	35:6W:201:ILE:HD11	1.95	0.49
37:7C:218:PRO:HA	42:TG:338:LYS:NZ	2.27	0.49
41:AD:86:ARG:NH1	41:BD:281:TYR:O	2.44	0.49
42:AI:105:ARG:NE	42:AI:110:ILE:HD11	2.28	0.49
42:AI:167:LEU:H	42:AI:167:LEU:HD22	1.77	0.49
42:AK:285:GLN:HG2	42:KM:128:GLN:HE22	1.77	0.49
41:BH:39:ASP:OD1	41:BH:40:SER:N	2.46	0.49
42:BI:5:ILE:HG12	42:BI:135:PHE:CD2	2.43	0.49
42:BI:161:TYR:O	42:BI:162:GLY:C	2.51	0.49
41:BL:36:TYR:OH	41:BL:40:SER:O	2.31	0.49
41:BL:309:ARG:H	41:BL:372:THR:HB	1.78	0.49
41:CB:86:ARG:HD3	41:CB:88:ASP:HB3	1.94	0.49
42:CC:191:THR:OG1	42:CC:191:THR:O	2.31	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:CD:259:PRO:O	42:CE:406:HIS:NE2	2.37	0.49
41:CF:310:TYR:HA	41:CF:371:SER:HA	1.95	0.49
42:CG:395:PHE:CD1	42:CG:422:ARG:HG3	2.48	0.49
41:CL:39:ASP:OD2	41:CL:40:SER:N	2.46	0.49
41:DB:3:GLU:HA	41:DB:49:VAL:HA	1.95	0.49
42:DC:102:ASN:N	42:DC:143:GLY:O	2.45	0.49
41:DH:389:PHE:CD1	41:DH:395:LEU:HD21	2.41	0.49
41:DJ:1:MET:HE3	41:DJ:1:MET:HB2	1.82	0.49
42:EC:348:PRO:HG3	41:ED:384:GLN:O	2.13	0.49
41:ED:257:MET:HE1	41:ED:370:ASN:H	1.78	0.49
41:ED:260:PHE:CE2	42:EE:403:ALA:HA	2.48	0.49
41:ED:269:GLY:HA2	41:ED:300:MET:HG3	1.95	0.49
41:ED:392:LYS:HG3	41:ED:395:LEU:HD22	1.95	0.49
41:EF:178:THR:HB	41:EF:181:GLU:HG3	1.95	0.49
41:EH:233:MET:SD	41:EH:268:PRO:HB2	2.52	0.49
42:EK:306:ASP:HB3	42:EK:309:HIS:CE1	2.48	0.49
42:FC:409:VAL:HA	42:FC:413:MET:O	2.12	0.49
41:FD:67:ASP:OD2	41:FD:69:GLU:HG3	2.13	0.49
41:FH:68:LEU:HD12	41:FH:69:GLU:HB2	1.95	0.49
42:FK:169:PHE:CD2	42:FK:231:ILE:HG12	2.47	0.49
42:FM:272:TYR:HD2	42:FM:275:VAL:HG13	1.78	0.49
42:GC:139:HIS:CD2	42:GC:150:THR:HG21	2.48	0.49
42:GC:168:GLU:HB3	42:GC:201:ALA:HA	1.95	0.49
42:GC:228:ASN:ND2	45:GC:501:GTP:O6	2.43	0.49
41:GD:242:PHE:HB3	41:GD:356:ILE:HG13	1.93	0.49
42:GI:70:LEU:HA	42:GI:95:GLY:HA3	1.94	0.49
42:GI:91:GLN:HE22	42:GI:124:LYS:HD3	1.77	0.49
42:GM:19:ALA:O	42:GM:22:GLU:HG3	2.13	0.49
42:GM:389:ALA:O	42:GM:390:ARG:C	2.50	0.49
41:HB:309:ARG:HD3	41:HB:342:VAL:HA	1.95	0.49
42:HC:195:LEU:HD21	42:HC:428:LEU:HD22	1.94	0.49
42:HC:414:GLU:HG2	42:HC:416:GLY:N	2.26	0.49
41:HH:147:MET:HA	41:HH:150:LEU:HD12	1.94	0.49
42:HI:305:CYS:O	42:HI:306:ASP:C	2.51	0.49
41:HJ:109:GLY:O	41:HJ:110:ALA:C	2.51	0.49
41:HL:36:TYR:OH	41:HL:40:SER:O	2.31	0.49
42:HM:75:ILE:HG21	42:HM:94:THR:HB	1.95	0.49
42:HM:344:VAL:HG11	42:HM:346:TRP:CE2	2.47	0.49
41:IH:135:LEU:HB3	41:IH:166:THR:HG22	1.95	0.49
41:IN:305:PRO:O	41:IN:306:ARG:C	2.51	0.49
41:JD:54:ALA:HA	41:MD:283:ALA:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:JF:2:ARG:HH11	42:JG:72:PRO:HD2	1.78	0.49
41:JH:62:ARG:HB2	41:JH:123:GLU:OE2	2.13	0.49
41:JL:152:ILE:HG22	41:JL:195:ASN:HB2	1.95	0.49
41:JL:312:THR:HG21	42:JM:181:VAL:HG21	1.94	0.49
41:KF:156:ARG:NH1	41:KF:162:ARG:O	2.46	0.49
42:KK:119:LEU:HD22	42:KK:156:ARG:HH11	1.78	0.49
42:LE:79:ARG:NH2	42:LE:94:THR:OG1	2.46	0.49
42:LE:322:ASP:O	42:LE:373:ARG:NH1	2.45	0.49
41:LJ:317:PHE:HB2	41:LJ:353:VAL:HG12	1.95	0.49
42:MC:11:GLN:HG3	42:MC:74:VAL:HG21	1.95	0.49
41:MD:256:ASN:HB2	42:ME:181:VAL:HG12	1.93	0.49
42:MK:250:VAL:HG13	42:MK:254:GLU:HB2	1.94	0.49
42:MK:261:PRO:HB2	42:MK:262:TYR:CE2	2.48	0.49
41:ML:173:PRO:O	41:ML:384:GLN:NE2	2.45	0.49
41:MN:272:PRO:HD3	41:MN:364:SER:HA	1.94	0.49
41:NB:396:HIS:HB2	41:NB:397:TRP:CE3	2.48	0.49
42:NC:5:ILE:HG13	42:NC:132:LEU:HD21	1.94	0.49
41:ND:301:ALA:O	41:ND:302:ALA:C	2.51	0.49
42:NE:238:ILE:HD11	42:NE:378:LEU:HD21	1.94	0.49
42:NI:323:VAL:HG13	42:NI:373:ARG:HG2	1.94	0.49
42:OA:154:MET:HE1	42:OA:194:THR:HG22	1.93	0.49
41:OD:193:VAL:HA	41:OD:264:HIS:HE1	1.77	0.49
41:OJ:187:LEU:HD21	41:OJ:408:PHE:HD1	1.78	0.49
41:OJ:258:VAL:HG22	41:OJ:266:PHE:HZ	1.78	0.49
42:PC:228:ASN:HA	42:PC:231:ILE:HD12	1.94	0.49
42:PE:102:ASN:HD21	42:PE:105:ARG:HG3	1.78	0.49
42:PG:19:ALA:HA	42:PG:22:GLU:HB3	1.94	0.49
42:PG:184:PRO:HG3	42:PG:394:LYS:HD2	1.94	0.49
42:PG:225:THR:HG22	42:PG:229:ARG:HD3	1.95	0.49
41:PH:231:ALA:O	41:PH:232:THR:C	2.50	0.49
41:PH:399:THR:HG23	41:PH:400:GLY:H	1.77	0.49
42:PI:25:CYS:HB2	42:PI:30:ILE:HB	1.94	0.49
41:PL:238:THR:O	41:PL:239:CYS:C	2.51	0.49
41:QB:8:GLN:HG2	41:QB:17:GLY:HA3	1.94	0.49
41:QB:23:VAL:O	41:QB:27:GLU:N	2.42	0.49
41:QB:242:PHE:CD2	41:QB:356:ILE:HD13	2.47	0.49
42:QC:214:ARG:HH12	42:QC:222:PRO:HG3	1.78	0.49
42:QC:329:ASN:HA	42:QC:332:ILE:HG22	1.93	0.49
42:QE:407:TRP:O	42:QE:411:GLU:N	2.43	0.49
41:QJ:293:MET:HG2	41:QJ:367:PHE:HB2	1.95	0.49
41:QL:301:ALA:O	41:QL:302:ALA:C	2.51	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:RD:54:ALA:HA	41:SD:283:ALA:HB2	1.95	0.49
42:RG:8:HIS:HA	42:RG:138:PHE:HB2	1.95	0.49
42:RI:274:PRO:HG3	42:RI:374:ALA:HB1	1.95	0.49
42:RK:224:TYR:CD1	42:RK:227:LEU:HD12	2.47	0.49
41:SD:302:ALA:HB3	41:SD:377:LEU:HD11	1.95	0.49
41:SL:309:ARG:HA	41:SL:340:TYR:HA	1.95	0.49
42:SM:172:TYR:CD1	42:SM:173:PRO:HD2	2.48	0.49
41:TD:193:VAL:HG22	41:TD:262:ARG:HB3	1.93	0.49
41:UD:8:GLN:O	41:UD:66:VAL:N	2.35	0.49
41:UF:303:CYS:HB3	41:UF:377:LEU:HG	1.94	0.49
42:UG:86:LEU:O	42:UG:87:PHE:C	2.51	0.49
42:UI:71:GLU:HB2	42:UI:98:ASP:HB3	1.95	0.49
42:UM:163:LYS:HD2	42:UM:164:LYS:N	2.28	0.49
42:UM:317:LEU:N	42:UM:352:LYS:O	2.45	0.49
42:VI:273:ALA:HB2	42:VI:295:CYS:HB3	1.95	0.49
41:WD:31:ASP:OD1	41:WD:35:THR:N	2.45	0.49
41:WD:211:CYS:HA	41:WD:215:LEU:HB2	1.94	0.49
42:WE:52:PHE:CE2	42:WE:239:THR:HG21	2.44	0.49
41:WH:166:THR:HG22	41:WH:199:THR:HA	1.95	0.49
41:WJ:236:VAL:HG13	41:WJ:237:THR:HG23	1.94	0.49
42:WM:110:ILE:HD12	42:WM:113:GLU:HG2	1.95	0.49
8:1Y:97:LYS:HD2	41:AF:392:LYS:HZ1	1.77	0.49
20:3O:93:TYR:OH	20:3O:100:GLU:OE2	2.31	0.49
20:3O:524:ASP:N	20:3O:524:ASP:OD1	2.43	0.49
20:3P:345:PHE:HB2	42:CI:40:LYS:HD3	1.95	0.49
30:5A:84:ARG:HD2	41:LL:276:ARG:HE	1.78	0.49
30:5A:289:ARG:NH2	42:LE:278:ALA:O	2.43	0.49
31:5E:110:ASP:OD1	31:5E:137:GLY:HA2	2.12	0.49
32:5M:282:LEU:HA	32:5M:372:LEU:HD13	1.94	0.49
32:5N:82:GLU:HG3	34:6B:275:ARG:HH12	1.77	0.49
33:5S:185:ILE:CD1	33:5T:324:ARG:HG2	2.35	0.49
33:5S:223:ARG:O	33:5S:227:ASP:N	2.45	0.49
33:5W:202:LYS:NZ	35:6U:212:GLU:OE2	2.37	0.49
33:5X:298:ARG:HH12	34:6M:162:HIS:HB2	1.76	0.49
34:6L:128:ILE:HD11	34:6M:382:ILE:HG12	1.95	0.49
35:6S:326:LEU:HD11	35:6S:409:ARG:HH21	1.77	0.49
37:7C:127:ARG:HD3	41:TL:296:ALA:CB	2.42	0.49
41:AB:31:ASP:OD1	41:AB:35:THR:N	2.46	0.49
41:AB:102:ALA:HA	41:AB:403:MET:HE1	1.94	0.49
41:AB:182:PRO:HB2	41:AB:388:MET:HB2	1.93	0.49
42:AG:29:GLY:HA2	42:AG:42:ILE:HG22	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:AH:215:LEU:HD21	41:AH:273:LEU:HD22	1.95	0.49
42:AI:283:HIS:CG	42:KK:60:LYS:HZ1	2.30	0.49
41:AJ:251:ARG:HG2	42:AK:100:ALA:CB	2.39	0.49
42:BC:88:HIS:HA	42:CC:283:HIS:CD2	2.48	0.49
42:BI:258:ASN:ND2	41:BJ:178:THR:HG23	2.28	0.49
42:CC:28:HIS:HE1	42:CC:243:ARG:HD2	1.78	0.49
42:CE:241:SER:OG	42:CE:250:VAL:N	2.42	0.49
42:CG:25:CYS:SG	42:CG:53:PHE:HZ	2.36	0.49
42:CM:151:SER:HB2	42:CM:193:THR:HG21	1.95	0.49
41:DB:392:LYS:HD2	41:DB:395:LEU:HD22	1.93	0.49
42:DC:191:THR:O	42:DC:195:LEU:N	2.44	0.49
41:DJ:20:PHE:C	41:DJ:22:GLU:H	2.16	0.49
42:DK:185:TYR:CE1	42:DK:398:MET:HB3	2.48	0.49
41:DL:198:GLU:OE1	41:DL:200:TYR:OH	2.23	0.49
41:ED:204:ASN:ND2	43:ED:501:GDP:N3	2.61	0.49
42:EE:139:HIS:O	42:EE:170:SER:HA	2.13	0.49
41:EF:193:VAL:HG21	41:EF:418:LEU:HD21	1.95	0.49
41:EJ:395:LEU:HA	41:EJ:398:TYR:HB2	1.95	0.49
42:EK:104:ALA:HB2	42:EK:408:TYR:HD1	1.77	0.49
41:EL:237:THR:OG1	41:EL:241:ARG:NH1	2.46	0.49
42:FE:229:ARG:NH2	42:FE:365:GLY:O	2.46	0.49
41:FH:101:TRP:CE2	41:FH:146:GLY:HA2	2.48	0.49
41:FH:342:VAL:HG22	41:FH:344:TRP:H	1.77	0.49
42:FM:139:HIS:CE1	42:FM:150:THR:HG21	2.48	0.49
42:FM:183:GLU:OE2	45:FM:501:GTP:O3'	2.30	0.49
42:FM:363:VAL:HG13	42:FM:366:GLY:HA3	1.95	0.49
42:GC:353:VAL:HG22	41:GD:177:ASP:HB3	1.95	0.49
41:GD:257:MET:HE1	41:GD:314:ALA:HB2	1.95	0.49
41:GD:259:PRO:HA	42:GE:404:PHE:CD1	2.48	0.49
42:GI:141:PHE:HB2	42:GI:173:PRO:HD3	1.94	0.49
41:GJ:19:LYS:HA	41:GJ:19:LYS:HD3	1.59	0.49
42:HC:232:GLY:O	42:HC:235:VAL:N	2.46	0.49
41:HF:271:ALA:HB2	41:HF:293:MET:HB2	1.94	0.49
42:HG:89:PRO:HD3	42:IG:283:HIS:ND1	2.28	0.49
42:HG:102:ASN:O	42:HG:103:TYR:C	2.52	0.49
42:HG:209:ILE:HG22	42:HG:227:LEU:HD22	1.95	0.49
42:HG:305:CYS:O	42:HG:306:ASP:C	2.50	0.49
42:IG:402:ARG:HG2	42:IG:405:VAL:HG11	1.94	0.49
41:IJ:67:ASP:OD1	41:IJ:72:THR:OG1	2.31	0.49
41:IN:242:PHE:CD1	41:IN:356:ILE:HG12	2.47	0.49
41:IN:375:GLN:OE1	41:IN:422:TYR:HB2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:JC:240:ALA:HB1	42:JC:244:PHE:HD1	1.77	0.49
41:JD:323:MET:HG2	42:JE:224:TYR:HE2	1.78	0.49
42:JK:224:TYR:HA	42:JK:227:LEU:HD23	1.94	0.49
41:JL:386:THR:HG23	41:JL:390:ARG:HH12	1.77	0.49
41:KF:107:THR:OG1	41:KF:108:GLU:OE1	2.31	0.49
42:KK:414:GLU:HG2	42:KK:416:GLY:H	1.78	0.49
42:LE:213:CYS:HA	42:LE:217:LEU:HD12	1.95	0.49
41:LN:309:ARG:H	41:LN:372:THR:HG22	1.78	0.49
42:ME:215:ARG:NH1	42:ME:216:ASN:HB2	2.28	0.49
41:MF:16:ILE:HD13	41:MF:229:VAL:HG11	1.95	0.49
42:MI:167:LEU:HD21	42:MI:255:PHE:HZ	1.78	0.49
41:ML:237:THR:HA	41:ML:240:LEU:HD23	1.95	0.49
41:MN:318:ARG:HA	41:MN:354:CYS:HB3	1.94	0.49
42:NC:172:TYR:CE2	42:NC:387:ALA:HB1	2.47	0.49
42:NC:204:VAL:HA	42:NC:303:VAL:HG22	1.93	0.49
42:NE:62:VAL:HG22	42:NE:88:HIS:HE1	1.78	0.49
41:NF:278:SER:O	41:NF:279:GLN:C	2.52	0.49
42:NG:180:ALA:HB3	42:NG:183:GLU:HG3	1.93	0.49
41:NJ:221:THR:OG1	41:NJ:222:TYR:N	2.46	0.49
42:OK:16:ILE:HD11	42:OK:171:ILE:HD11	1.95	0.49
42:PE:195:LEU:HG	42:PE:428:LEU:HD11	1.94	0.49
41:PF:165:ASN:HB2	41:PF:200:TYR:CE2	2.48	0.49
41:PH:28:HIS:CE1	41:PH:241:ARG:HG2	2.48	0.49
41:PH:165:ASN:HB3	41:PH:198:GLU:HB2	1.94	0.49
41:PH:395:LEU:O	41:PH:398:TYR:N	2.46	0.49
41:PL:311:LEU:HD21	41:PL:372:THR:HG23	1.95	0.49
42:QC:103:TYR:HD2	42:QC:189:LEU:HD23	1.77	0.49
41:QF:118:ASP:OD1	41:QF:119:VAL:N	2.46	0.49
41:QF:237:THR:OG1	41:QF:241:ARG:NH2	2.41	0.49
41:QF:354:CYS:SG	41:QF:355:ASP:N	2.86	0.49
42:QG:99:ALA:HA	42:QG:105:ARG:HD3	1.94	0.49
41:QH:181:GLU:O	41:QH:182:PRO:C	2.51	0.49
42:RG:307:PRO:HB2	42:RG:312:TYR:HE1	1.77	0.49
41:SD:117:LEU:HD11	41:SD:154:LYS:HD2	1.95	0.49
41:SD:376:GLU:O	41:SD:380:ARG:HG2	2.13	0.49
41:TD:259:PRO:O	42:TE:406:HIS:NE2	2.43	0.49
42:TE:27:GLU:HA	42:TE:361:THR:HG21	1.95	0.49
41:TH:344:TRP:HZ2	41:TH:428:ALA:HB2	1.78	0.49
42:TI:140:SER:O	42:TI:141:PHE:C	2.50	0.49
42:TM:202:PHE:HB3	42:TM:204:VAL:HG23	1.95	0.49
41:UD:139:LEU:HD12	41:UD:170:VAL:HG22	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:UD:323:MET:HE1	42:UE:224:TYR:HD1	1.78	0.49
42:UE:440:VAL:O	41:UF:390:ARG:NH2	2.45	0.49
42:UG:181:VAL:HG12	42:UG:404:PHE:HE2	1.78	0.49
41:UJ:270:PHE:HD1	41:UJ:366:THR:HG22	1.78	0.49
41:UL:96:GLY:O	41:UL:103:LYS:NZ	2.46	0.49
42:UM:73:THR:OG1	42:UM:77:GLU:OE2	2.30	0.49
41:VL:28:HIS:ND1	41:VL:43:GLN:O	2.46	0.49
42:VM:16:ILE:HD11	42:VM:171:ILE:HD11	1.95	0.49
41:WD:10:GLY:O	41:WD:14:ASN:ND2	2.40	0.49
42:WE:217:LEU:HD13	42:WE:219:ILE:HD11	1.94	0.49
41:WH:377:LEU:HD23	41:WH:380:ARG:HH12	1.76	0.49
42:WI:307:PRO:HB3	42:WI:312:TYR:CE1	2.48	0.49
3:1I:56:LEU:HD21	21:3V:199:VAL:HA	1.94	0.48
5:1N:107:ASN:O	42:KC:339:ARG:NH1	2.36	0.48
20:3O:634:GLU:OE1	20:3O:636:LYS:NZ	2.43	0.48
27:4P:199:ILE:HG12	41:AD:424:GLN:HB2	1.94	0.48
31:5J:22:GLN:NE2	31:5J:121:ASP:OD1	2.46	0.48
33:5S:226:LYS:O	33:5S:227:ASP:C	2.51	0.48
33:5X:43:ARG:HH22	34:6B:129:GLN:HB3	1.78	0.48
34:6A:96:PRO:HD3	34:6B:212:HIS:O	2.13	0.48
34:6A:331:VAL:O	34:6A:332:THR:C	2.50	0.48
34:6B:441:ALA:O	34:6B:442:GLU:C	2.51	0.48
34:6K:219:LEU:HA	34:6K:222:GLU:HG2	1.95	0.48
35:6Q:388:LEU:HG	35:6Q:392:LYS:HZ1	1.78	0.48
35:6U:60:CYS:HG	35:6U:64:TYR:HE2	1.61	0.48
36:6Z:114:ARG:NH1	36:6Z:115:GLU:OE1	2.46	0.48
37:7C:114:HIS:CE1	42:SM:93:ILE:HG23	2.48	0.48
41:AH:385:PHE:HZ	41:AH:408:PHE:HB3	1.78	0.48
41:BB:27:GLU:OE1	41:BB:241:ARG:NH1	2.45	0.48
41:BB:324:LYS:HA	41:BB:327:ASP:HB3	1.93	0.48
42:BC:205:ASP:HB2	42:BC:303:VAL:HA	1.95	0.48
42:CC:8:HIS:O	42:CC:67:PHE:HA	2.13	0.48
42:CC:388:TRP:O	42:CC:389:ALA:C	2.51	0.48
42:CG:10:GLY:HA2	42:CG:145:THR:CG2	2.42	0.48
42:CG:215:ARG:HG3	42:CG:216:ASN:H	1.77	0.48
42:CG:348:PRO:HD2	41:CH:388:MET:HG3	1.95	0.48
41:CL:226:ASN:O	41:CL:230:SER:N	2.45	0.48
41:CL:332:ASN:HB3	41:CL:336:LYS:HZ3	1.76	0.48
42:CM:172:TYR:CD1	42:CM:173:PRO:HG3	2.47	0.48
42:DE:9:VAL:HG13	42:DE:68:VAL:HG13	1.95	0.48
41:DF:348:ASN:HA	42:DG:181:VAL:HG22	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DG:291:ILE:HG22	42:DG:375:VAL:HG12	1.95	0.48
42:DI:8:HIS:HB2	42:DI:67:PHE:HD1	1.78	0.48
42:DK:405:VAL:O	42:DK:409:VAL:N	2.44	0.48
41:DL:157:GLU:O	41:DL:158:GLU:C	2.51	0.48
42:EC:60:LYS:HZ1	42:EC:85:GLN:HB3	1.78	0.48
42:EC:215:ARG:NH2	42:EC:299:ALA:O	2.43	0.48
42:EC:396:ASP:CB	42:EC:422:ARG:HH12	2.23	0.48
42:EE:305:CYS:O	42:EE:305:CYS:SG	2.71	0.48
42:EE:414:GLU:HG2	42:EE:416:GLY:H	1.78	0.48
41:EF:11:GLN:HA	41:EF:72:THR:HG21	1.94	0.48
41:EF:162:ARG:HA	41:EF:251:ARG:HH21	1.78	0.48
42:EG:30:ILE:HG21	42:EG:61:HIS:HB2	1.95	0.48
42:EG:312:TYR:CD1	42:EG:341:ILE:HG23	2.48	0.48
42:EG:348:PRO:HD2	41:EH:388:MET:HE2	1.94	0.48
41:EH:193:VAL:HA	41:EH:264:HIS:CE1	2.48	0.48
42:EK:248:LEU:HD13	42:EK:355:ILE:CD1	2.42	0.48
41:EL:4:ILE:HD11	41:EL:134:GLN:HB2	1.95	0.48
42:FC:396:ASP:HA	42:FC:399:TYR:HB3	1.94	0.48
41:FD:94:GLN:O	41:FD:95:SER:C	2.51	0.48
41:FD:189:VAL:O	41:FD:190:HIS:C	2.52	0.48
41:FD:271:ALA:HB2	41:FD:367:PHE:CE2	2.47	0.48
41:FD:336:LYS:O	41:FD:338:SER:N	2.46	0.48
41:FH:97:ALA:HA	41:FH:108:GLU:HG3	1.94	0.48
41:FH:334:GLN:HA	41:FH:341:PHE:CD2	2.48	0.48
41:FJ:211:CYS:O	41:FJ:217:LEU:N	2.45	0.48
41:FJ:347:ASN:ND2	42:FK:180:ALA:O	2.46	0.48
42:FK:344:VAL:HG13	42:FK:347:CYS:HB2	1.95	0.48
42:FK:402:ARG:HB3	42:FK:405:VAL:HG11	1.95	0.48
41:HH:324:LYS:HB3	42:HI:222:PRO:HD2	1.95	0.48
41:HH:347:ASN:ND2	42:HI:178:SER:HB3	2.28	0.48
42:HI:34:GLY:HA3	42:HI:60:LYS:HE3	1.94	0.48
42:IC:262:TYR:HB2	42:IC:265:ILE:HG22	1.95	0.48
42:IC:311:LYS:HE3	42:IC:342:GLN:HE22	1.78	0.48
42:IE:70:LEU:HD13	42:IE:145:THR:HB	1.95	0.48
42:IE:273:ALA:HB3	42:IE:274:PRO:HD3	1.95	0.48
42:IK:36:MET:O	42:IK:38:SER:N	2.46	0.48
41:IL:286:VAL:HA	41:IL:289:LEU:HB3	1.94	0.48
41:JF:362:LYS:HD2	41:JF:363:MET:HG3	1.95	0.48
42:JK:238:ILE:HG22	42:JK:239:THR:HG23	1.95	0.48
41:KD:192:LEU:O	41:KD:196:THR:OG1	2.31	0.48
42:KE:262:TYR:HD2	42:KE:265:ILE:HD12	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:KJ:130:LEU:O	41:KJ:162:ARG:NH1	2.46	0.48
41:KJ:288:GLU:HA	41:KJ:291:GLN:HG2	1.94	0.48
42:LI:141:PHE:HB2	42:LI:173:PRO:HD3	1.94	0.48
41:MD:226:ASN:HA	41:MD:229:VAL:HG13	1.95	0.48
41:NB:211:CYS:HB3	41:NB:217:LEU:HD12	1.93	0.48
41:NF:6:HIS:HB2	41:NF:21:TRP:HZ2	1.76	0.48
41:NF:262:ARG:H	41:NF:262:ARG:HG2	1.41	0.48
42:OC:79:ARG:NH2	42:OC:92:LEU:O	2.46	0.48
42:PG:172:TYR:O	42:PG:173:PRO:C	2.49	0.48
42:PI:399:TYR:C	42:PI:402:ARG:H	2.17	0.48
42:PK:411:GLU:O	42:PK:412:GLY:C	2.51	0.48
41:QF:6:HIS:HE1	41:QF:136:THR:HG23	1.78	0.48
41:RF:183:TYR:O	41:RF:187:LEU:HB2	2.13	0.48
41:RF:293:MET:HB2	41:RF:367:PHE:CB	2.43	0.48
41:RH:175:VAL:N	41:RH:205:GLU:OE2	2.37	0.48
41:RH:372:THR:HG23	41:RH:422:TYR:HB3	1.96	0.48
42:SC:91:GLN:NE2	42:SC:125:LEU:HD21	2.25	0.48
42:SC:135:PHE:CE2	42:SC:164:LYS:HG2	2.48	0.48
42:SM:12:ALA:HA	45:SM:501:GTP:C5	2.48	0.48
42:TC:75:ILE:HG22	42:TC:79:ARG:HG3	1.95	0.48
42:TC:185:TYR:HE2	42:TC:404:PHE:HB2	1.78	0.48
41:TF:347:ASN:H	42:TG:394:LYS:HZ3	1.61	0.48
41:TF:393:ALA:O	41:TF:395:LEU:N	2.46	0.48
41:TJ:271:ALA:HB1	41:TJ:289:LEU:HB2	1.95	0.48
42:TM:211:ASP:OD2	42:TM:215:ARG:NH2	2.45	0.48
42:UC:411:GLU:O	42:UC:412:GLY:C	2.49	0.48
41:UD:67:ASP:OD2	41:UD:69:GLU:N	2.46	0.48
42:UE:207:GLU:HA	42:UE:210:TYR:HD2	1.78	0.48
41:UF:206:ALA:HA	41:UF:209:ASP:HB2	1.95	0.48
41:UF:286:VAL:HA	41:UF:289:LEU:HD23	1.94	0.48
41:UJ:346:PRO:HD3	42:UK:397:LEU:HD11	1.95	0.48
41:UJ:358:PRO:HB2	41:UJ:361:LEU:HB2	1.95	0.48
42:UM:195:LEU:HD11	42:UM:264:ARG:HE	1.78	0.48
41:VD:173:PRO:HA	41:VD:380:ARG:HH12	1.78	0.48
42:VI:236:SER:O	42:VI:320:ARG:NH2	2.46	0.48
42:VK:439:SER:H	41:VL:391:ARG:HH12	1.60	0.48
42:VM:27:GLU:OE2	42:VM:320:ARG:NH2	2.43	0.48
42:WK:51:THR:HG21	42:WK:243:ARG:HG2	1.94	0.48
2:1E:76:ILE:HG13	42:HG:342:GLN:HG2	1.96	0.48
6:1R:42:ARG:HB2	42:JK:46:ASP:HB3	1.95	0.48
14:2V:248:HIS:NE2	42:LC:423:GLU:OE1	2.40	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:2Y:96:VAL:HG11	41:OJ:227:HIS:HB3	1.94	0.48
19:3J:38:ALA:HB1	41:LD:92:PHE:CZ	2.47	0.48
19:3L:85:PHE:HE2	42:AK:282:TYR:HB3	1.75	0.48
20:3N:11:HIS:NE2	41:KD:92:PHE:HB3	2.28	0.48
20:3P:421:ARG:HA	20:3P:441:SER:HA	1.94	0.48
21:3S:160:TYR:OH	42:KC:396:ASP:OD2	2.23	0.48
26:4K:206:MET:O	26:4K:210:GLU:HG2	2.12	0.48
27:4R:159:LEU:O	27:4R:161:ASN:N	2.44	0.48
34:6A:320:LYS:HD3	34:6A:320:LYS:HA	1.71	0.48
34:6C:196:ARG:HA	34:6C:199:LEU:HD12	1.95	0.48
34:6D:452:LYS:O	34:6D:453:ALA:C	2.52	0.48
34:6F:410:GLU:OE1	34:6G:300:TRP:NE1	2.44	0.48
34:6H:234:LYS:HZ2	34:6I:68:TYR:HD2	1.61	0.48
37:7E:163:ILE:HG22	41:OJ:294:PHE:HB3	1.94	0.48
41:AF:113:VAL:HG22	41:AF:117:LEU:HD23	1.95	0.48
41:AH:6:HIS:HD1	41:AH:21:TRP:HE1	1.61	0.48
42:AI:346:TRP:HE1	42:AI:439:SER:H	1.61	0.48
42:AK:260:VAL:CG1	42:AK:266:HIS:HA	2.41	0.48
41:AL:207:LEU:HA	41:AL:210:ILE:HD12	1.95	0.48
41:BF:70:PRO:HA	41:BF:73:MET:HB2	1.95	0.48
42:BI:228:ASN:OD1	45:BI:501:GTP:N1	2.43	0.48
42:BI:287:SER:N	42:BI:290:GLU:HG2	2.28	0.48
41:CB:204:ASN:ND2	43:CB:501:GDP:HN22	2.11	0.48
41:CF:138:SER:OG	43:CF:501:GDP:H5'	2.14	0.48
41:CJ:98:GLY:O	41:CJ:100:ASN:N	2.44	0.48
41:CJ:236:VAL:HG13	41:CJ:237:THR:HG23	1.94	0.48
42:CK:65:ALA:H	42:CK:91:GLN:NE2	2.11	0.48
42:CM:385:ALA:HA	42:CM:388:TRP:CE3	2.48	0.48
41:DB:8:GLN:OE1	41:DB:136:THR:OG1	2.30	0.48
42:DE:89:PRO:HG2	42:EE:280:LYS:CB	2.43	0.48
42:DI:9:VAL:HG23	42:DI:68:VAL:HG13	1.96	0.48
41:DJ:244:GLY:CA	41:DJ:355:ASP:HB2	2.39	0.48
42:DK:238:ILE:HD11	42:DK:378:LEU:HD21	1.93	0.48
42:DK:332:ILE:HG23	42:DK:351:PHE:HE2	1.78	0.48
41:DL:375:GLN:O	41:DL:379:LYS:N	2.43	0.48
41:ED:367:PHE:CE1	41:ED:369:GLY:HA3	2.47	0.48
42:EK:415:GLU:O	42:EK:417:GLU:N	2.46	0.48
42:EM:288:VAL:O	42:EM:291:ILE:HG12	2.13	0.48
42:FC:210:TYR:HE1	42:FC:221:ARG:HH11	1.60	0.48
41:FD:61:PRO:HG3	41:FD:84:ILE:HG23	1.94	0.48
41:FF:189:VAL:HA	41:FF:192:LEU:HB2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:FI:143:GLY:O	42:FI:147:SER:OG	2.25	0.48
42:FK:174:ALA:N	42:FK:175:PRO:HD2	2.28	0.48
42:FK:387:ALA:HA	42:FK:390:ARG:HE	1.78	0.48
41:FL:393:ALA:O	41:FL:395:LEU:N	2.45	0.48
42:FM:388:TRP:CZ3	42:FM:428:LEU:HD21	2.47	0.48
41:GD:193:VAL:HG21	41:GD:418:LEU:HD21	1.95	0.48
41:GD:347:ASN:OD1	41:GD:347:ASN:N	2.46	0.48
42:GE:138:PHE:HZ	42:GE:235:VAL:HG11	1.78	0.48
42:GI:9:VAL:HG13	42:GI:139:HIS:HB3	1.94	0.48
42:GI:291:ILE:HA	42:GI:294:ALA:HB3	1.95	0.48
42:GM:88:HIS:NE2	42:HM:280:LYS:HD3	2.28	0.48
42:HC:49:PHE:O	42:HC:51:THR:N	2.46	0.48
42:HC:201:ALA:O	42:HC:202:PHE:C	2.50	0.48
42:HG:175:PRO:HG2	42:HG:304:LYS:HZ3	1.77	0.48
42:HI:109:THR:HA	42:HI:112:LYS:HD3	1.95	0.48
42:HI:252:LEU:HA	42:HI:255:PHE:HD2	1.78	0.48
42:HK:193:THR:O	42:HK:197:HIS:ND1	2.47	0.48
42:HK:269:LEU:HD13	42:HK:303:VAL:HG11	1.94	0.48
41:ID:331:LEU:HD12	42:IE:177:VAL:HG23	1.95	0.48
42:IG:7:VAL:HG23	42:IG:66:VAL:HG13	1.94	0.48
42:II:217:LEU:HD21	42:II:367:ASP:HB3	1.94	0.48
41:IL:99:ASN:HA	41:IL:142:GLY:H	1.78	0.48
42:JC:34:GLY:HA3	42:JC:60:LYS:HE2	1.94	0.48
42:JC:296:PHE:CE1	42:JC:335:ILE:HD13	2.48	0.48
41:JF:401:GLU:OE2	41:JF:401:GLU:N	2.45	0.48
42:JG:17:GLY:HA2	42:JG:20:CYS:HB3	1.95	0.48
41:JH:3:GLU:OE2	41:JH:3:GLU:N	2.46	0.48
42:JI:262:TYR:HB2	42:JI:265:ILE:HG12	1.94	0.48
42:JK:46:ASP:HA	42:JK:49:PHE:CE2	2.48	0.48
42:JK:252:LEU:HD23	42:JK:255:PHE:HE2	1.78	0.48
41:JL:198:GLU:HG3	41:JL:266:PHE:CE2	2.47	0.48
41:KD:210:ILE:O	41:KD:214:THR:OG1	2.29	0.48
41:KF:129:CYS:SG	42:KG:96:LYS:HD2	2.52	0.48
41:KF:180:VAL:HG23	41:KF:184:ASN:HD21	1.77	0.48
42:KM:5:ILE:H	42:KM:132:LEU:HD11	1.78	0.48
42:KM:401:LYS:O	42:KM:402:ARG:C	2.50	0.48
41:LF:332:ASN:HB3	41:LF:336:LYS:NZ	2.28	0.48
41:LH:236:VAL:HG22	41:LH:368:ILE:HD11	1.95	0.48
42:ME:3:GLU:HG3	42:ME:50:ASN:O	2.13	0.48
41:MJ:324:LYS:HE3	42:MK:222:PRO:HD2	1.95	0.48
42:MM:53:PHE:O	42:MM:64:ARG:NH1	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:MM:154:MET:HG3	42:MM:194:THR:HG22	1.94	0.48
42:NG:412:GLY:O	42:NG:413:MET:C	2.50	0.48
41:NH:146:GLY:O	41:NH:147:MET:C	2.51	0.48
41:NH:193:VAL:HA	41:NH:264:HIS:HE1	1.77	0.48
41:NJ:1:MET:HG3	41:NJ:2:ARG:HG3	1.95	0.48
41:NL:274:THR:HG21	41:NL:282:ARG:HH22	1.78	0.48
41:OD:403:MET:HG2	41:OD:408:PHE:HE1	1.77	0.48
42:OE:391:LEU:HA	42:OE:394:LYS:HB2	1.94	0.48
41:OJ:68:LEU:HD21	41:OJ:109:GLY:HA2	1.95	0.48
41:OL:40:SER:HB3	41:OL:43:GLN:HG3	1.94	0.48
42:PA:280:LYS:HE2	42:PA:280:LYS:H	1.78	0.48
42:PA:349:THR:HB	41:PB:179:VAL:HA	1.95	0.48
42:PC:182:VAL:O	42:PC:183:GLU:C	2.51	0.48
41:PD:347:ASN:OD1	41:PD:347:ASN:N	2.41	0.48
42:PG:332:ILE:O	42:PG:333:ALA:C	2.51	0.48
42:PG:434:GLU:C	42:PG:436:GLY:H	2.15	0.48
41:PH:74:ASP:O	41:PH:77:ARG:HB3	2.14	0.48
41:PJ:61:PRO:CG	41:PJ:84:ILE:HB	2.43	0.48
41:PJ:129:CYS:O	41:PJ:130:LEU:C	2.50	0.48
41:PL:328:GLU:O	41:PL:329:GLN:C	2.51	0.48
41:QB:138:SER:OG	43:QB:501:GDP:O2B	2.31	0.48
42:QG:200:CYS:H	42:QG:266:HIS:HB2	1.78	0.48
41:QL:71:GLY:O	41:QL:72:THR:C	2.51	0.48
41:QL:100:ASN:O	41:QL:101:TRP:C	2.51	0.48
42:RE:240:ALA:HA	42:RE:243:ARG:HG2	1.94	0.48
42:RG:284:GLU:OE2	42:RG:286:LEU:HB2	2.13	0.48
41:RH:146:GLY:O	41:RH:149:THR:OG1	2.29	0.48
42:RI:277:SER:O	42:RI:281:ALA:N	2.46	0.48
41:RJ:165:ASN:HA	41:RJ:198:GLU:HB3	1.95	0.48
41:RJ:395:LEU:O	41:RJ:396:HIS:C	2.52	0.48
42:RK:317:LEU:HD13	42:RK:351:PHE:CZ	2.48	0.48
42:SC:113:GLU:N	42:SC:113:GLU:OE2	2.46	0.48
41:SH:16:ILE:HD11	41:SH:136:THR:HB	1.95	0.48
41:SH:124:ALA:HB1	41:SH:130:LEU:HD21	1.94	0.48
42:SK:419:SER:HA	42:SK:422:ARG:HB3	1.95	0.48
42:SM:3:GLU:OE1	42:SM:131:GLY:N	2.46	0.48
42:SM:139:HIS:CG	42:SM:150:THR:HG21	2.48	0.48
42:TM:316:CYS:HB3	42:TM:378:LEU:HB2	1.95	0.48
42:UE:207:GLU:HA	42:UE:210:TYR:CD2	2.48	0.48
41:UF:325:GLU:O	41:UF:329:GLN:HG2	2.13	0.48
42:UI:319:TYR:CZ	42:UI:328:VAL:HG23	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:UJ:310:TYR:HA	41:UJ:371:SER:HA	1.94	0.48
42:VC:169:PHE:HE1	42:VC:235:VAL:HG22	1.78	0.48
42:VE:251:ASP:H	42:VE:254:GLU:HB3	1.78	0.48
42:VG:200:CYS:HB3	42:VG:202:PHE:HE1	1.77	0.48
41:VH:170:VAL:HG11	41:VH:377:LEU:HD23	1.96	0.48
42:VI:116:ASP:OD1	42:VI:117:LEU:N	2.46	0.48
41:VJ:3:GLU:HA	41:VJ:49:VAL:HG23	1.93	0.48
41:VL:163:ILE:HG21	41:VL:250:LEU:HB3	1.94	0.48
42:VM:286:LEU:HD13	42:VM:371:VAL:HG13	1.95	0.48
41:WJ:246:LEU:HD21	42:WK:179:THR:HG21	1.95	0.48
42:WK:297:GLU:O	42:WK:301:GLN:NE2	2.46	0.48
41:WL:180:VAL:O	41:WL:184:ASN:ND2	2.45	0.48
41:WN:403:MET:HG2	41:WN:408:PHE:CZ	2.47	0.48
16:3C:43:ASN:OD1	41:VF:306:ARG:NH1	2.46	0.48
19:3K:245:PHE:HB2	19:3K:264:ILE:HB	1.95	0.48
20:3O:140:VAL:HB	20:3O:172:ASN:HB2	1.94	0.48
28:4V:108:VAL:HG23	28:4V:115:ILE:HG21	1.95	0.48
32:5L:278:LEU:HG	32:5M:24:TYR:HE1	1.78	0.48
34:6B:243:GLN:NE2	34:6B:314:GLU:OE2	2.46	0.48
34:6K:94:TYR:OH	35:6Q:249:GLU:OE2	2.23	0.48
34:6K:189:GLU:O	34:6K:193:GLN:N	2.43	0.48
35:6T:162:ARG:HG3	35:6T:162:ARG:HH11	1.78	0.48
37:7D:51:TYR:HD2	41:TD:291:GLN:HB3	1.77	0.48
38:7H:67:ALA:HB1	41:IJ:336:LYS:HE3	1.95	0.48
38:7H:196:SER:O	38:7H:197:ARG:NH1	2.44	0.48
38:7I:219:TYR:O	41:IN:336:LYS:HG2	2.13	0.48
41:AB:237:THR:OG1	41:AB:241:ARG:NH1	2.46	0.48
41:AF:375:GLN:HB2	41:AF:419:VAL:HG13	1.96	0.48
42:AI:69:ASP:HB2	42:AI:75:ILE:HD11	1.95	0.48
41:AJ:216:LYS:O	41:AJ:216:LYS:HG3	2.13	0.48
42:AK:319:TYR:HB3	42:AK:323:VAL:HG11	1.94	0.48
41:AL:189:VAL:O	41:AL:193:VAL:HG23	2.13	0.48
41:BH:155:ILE:HG22	41:BH:164:MET:HE3	1.95	0.48
42:CC:346:TRP:CD1	42:CC:346:TRP:C	2.87	0.48
41:CD:391:ARG:O	41:CD:393:ALA:N	2.46	0.48
41:CJ:209:ASP:HB3	41:CJ:213:ARG:NE	2.27	0.48
41:DD:46:ARG:NH2	42:DE:76:ASP:OD2	2.46	0.48
41:DF:393:ALA:O	41:DF:395:LEU:N	2.45	0.48
42:DG:265:ILE:HD11	42:DG:431:ASP:OD2	2.13	0.48
41:DJ:130:LEU:O	41:DJ:131:GLN:C	2.50	0.48
42:DK:105:ARG:O	42:DK:109:THR:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DK:169:PHE:CD1	42:DK:201:ALA:HB3	2.47	0.48
41:DL:393:ALA:O	41:DL:395:LEU:N	2.46	0.48
42:EC:312:TYR:HB2	42:EC:343:PHE:CD1	2.48	0.48
42:EE:273:ALA:HB3	42:EE:375:VAL:HG22	1.94	0.48
41:EF:45:GLU:HG2	41:EF:46:ARG:HD3	1.95	0.48
42:EG:261:PRO:HB2	42:EG:346:TRP:HH2	1.78	0.48
41:EJ:131:GLN:NE2	41:EJ:249:ASP:OD2	2.45	0.48
42:FC:323:VAL:HG22	42:FC:373:ARG:HG2	1.94	0.48
42:FE:101:ASN:HD22	42:FE:143:GLY:HA3	1.78	0.48
41:FH:67:ASP:HA	41:FH:143:THR:HG21	1.95	0.48
42:FI:172:TYR:HB2	42:FI:203:MET:HB3	1.95	0.48
41:FJ:318:ARG:CZ	41:FJ:358:PRO:HG3	2.43	0.48
41:FL:243:PRO:HD2	41:FL:356:ILE:HG12	1.94	0.48
42:FM:66:VAL:HA	42:FM:91:GLN:HB2	1.95	0.48
42:GI:93:ILE:HD11	42:GI:121:ARG:HG3	1.95	0.48
42:GI:276:ILE:HB	42:GI:280:LYS:HB2	1.95	0.48
42:GK:326:LYS:HZ3	41:GL:212:PHE:HD1	1.60	0.48
42:GM:118:VAL:HG21	42:GM:149:PHE:HE2	1.78	0.48
42:HE:298:PRO:HG3	42:HE:307:PRO:HD2	1.94	0.48
41:HF:169:VAL:HA	41:HF:202:ILE:HG13	1.94	0.48
42:HG:410:GLY:O	42:HG:411:GLU:C	2.50	0.48
41:HH:11:GLN:HG2	43:HH:501:GDP:N9	2.10	0.48
41:HL:255:VAL:HG23	42:HM:407:TRP:CG	2.49	0.48
41:ID:204:ASN:ND2	43:ID:501:GDP:O2'	2.46	0.48
42:IK:12:ALA:HB3	42:IK:140:SER:HB3	1.96	0.48
41:IL:112:LEU:HD23	41:IL:147:MET:HE1	1.95	0.48
42:JC:175:PRO:HB3	42:JC:390:ARG:NH1	2.28	0.48
41:JD:3:GLU:HB3	41:JD:130:LEU:HA	1.96	0.48
41:JD:42:LEU:HD23	41:JD:356:ILE:HD11	1.95	0.48
42:JE:169:PHE:HZ	42:JE:238:ILE:HG13	1.78	0.48
41:JJ:139:LEU:HD12	41:JJ:170:VAL:HG12	1.95	0.48
42:JK:175:PRO:HG3	42:JK:304:LYS:CB	2.43	0.48
41:KH:249:ASP:OD2	41:KH:249:ASP:N	2.39	0.48
41:KH:313:VAL:HB	41:KH:349:VAL:HG22	1.95	0.48
42:LG:138:PHE:CE1	42:LG:169:PHE:HD2	2.31	0.48
42:LI:191:THR:HG21	42:LI:425:MET:HG2	1.95	0.48
41:MH:200:TYR:HD2	41:MH:268:PRO:HG3	1.78	0.48
41:ML:36:TYR:OH	41:ML:40:SER:O	2.30	0.48
41:ML:68:LEU:HD12	41:ML:97:ALA:HB2	1.96	0.48
41:MN:372:THR:O	41:MN:373:ALA:C	2.52	0.48
42:NA:262:TYR:HD2	41:NB:396:HIS:HE1	1.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:ND:287:PRO:HA	41:ND:329:GLN:HG3	1.95	0.48
41:NF:246:LEU:HD21	42:NG:179:THR:HG21	1.95	0.48
42:NG:288:VAL:HA	42:NG:291:ILE:HG22	1.95	0.48
41:NH:8:GLN:HB2	41:NH:14:ASN:HA	1.94	0.48
42:NI:288:VAL:HG22	42:NI:323:VAL:HG12	1.94	0.48
42:OC:250:VAL:HG12	42:OC:352:LYS:HE3	1.95	0.48
42:OE:98:ASP:O	42:OE:100:ALA:N	2.46	0.48
41:OF:252:LYS:HA	42:OG:100:ALA:HB1	1.93	0.48
41:OJ:149:THR:HA	41:OJ:152:ILE:HG12	1.96	0.48
42:OK:56:THR:N	42:OK:60:LYS:O	2.40	0.48
41:OL:34:GLY:HA3	41:OL:58:LYS:HE2	1.95	0.48
41:PD:385:PHE:HZ	41:PD:408:PHE:HB3	1.78	0.48
41:PF:28:HIS:HE1	41:PF:46:ARG:HB2	1.79	0.48
41:PF:337:ASN:O	41:PF:338:SER:C	2.51	0.48
42:PG:315:CYS:HA	42:PG:379:SER:HB3	1.94	0.48
42:PG:424:ASP:O	42:PG:427:ALA:HB3	2.13	0.48
41:PH:21:TRP:O	41:PH:25:SER:HB3	2.13	0.48
41:PH:58:LYS:O	41:PH:59:TYR:C	2.51	0.48
41:PH:222:TYR:HD1	41:PH:225:LEU:HD23	1.78	0.48
42:PI:52:PHE:HZ	42:PI:239:THR:HB	1.78	0.48
42:PI:160:ASP:O	42:PI:162:GLY:N	2.46	0.48
41:PJ:22:GLU:HG2	41:PJ:81:PHE:CD2	2.48	0.48
41:PJ:296:ALA:O	41:PJ:297:LYS:C	2.51	0.48
42:PK:138:PHE:HE1	42:PK:235:VAL:HG11	1.78	0.48
41:QH:11:GLN:HB2	41:QH:72:THR:HG21	1.95	0.48
42:QK:140:SER:HB2	42:QK:171:ILE:HD11	1.94	0.48
42:QK:188:ILE:HD13	42:QK:425:MET:HG2	1.95	0.48
42:QK:195:LEU:HD13	42:QK:266:HIS:HE1	1.78	0.48
42:QK:352:LYS:HD2	42:QK:352:LYS:HA	1.60	0.48
41:QL:140:GLY:HA2	41:QL:171:PRO:HG3	1.96	0.48
42:RC:167:LEU:HD11	42:RC:202:PHE:HE2	1.77	0.48
42:RC:306:ASP:OD1	42:RC:308:ARG:HB3	2.13	0.48
42:RG:203:MET:HB2	42:RG:269:LEU:HA	1.94	0.48
41:RJ:358:PRO:O	41:RJ:359:ARG:C	2.51	0.48
42:SC:332:ILE:HD11	42:SC:351:PHE:HB2	1.94	0.48
42:SE:97:GLU:HB2	42:SE:110:ILE:HG21	1.94	0.48
41:SH:137:HIS:HB2	41:SH:144:GLY:O	2.12	0.48
41:SH:311:LEU:HD13	41:SH:342:VAL:HG21	1.96	0.48
42:SI:23:LEU:O	42:SI:27:GLU:HG3	2.14	0.48
41:SL:11:GLN:HA	41:SL:72:THR:HG21	1.95	0.48
41:TF:316:VAL:HG12	41:TF:352:ALA:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:TK:353:VAL:HB	41:TL:177:ASP:OD1	2.12	0.48
42:TM:63:PRO:HD2	42:TM:87:PHE:HA	1.95	0.48
42:TM:261:PRO:HG3	42:TM:313:MET:HG2	1.95	0.48
42:UC:199:ASP:O	42:UC:266:HIS:HB2	2.13	0.48
41:VF:316:VAL:HA	41:VF:352:ALA:HB3	1.95	0.48
42:VG:3:GLU:HA	42:VG:51:THR:HA	1.94	0.48
42:VI:200:CYS:HB3	42:VI:202:PHE:CE1	2.48	0.48
42:VM:402:ARG:HG3	42:VM:405:VAL:HG21	1.95	0.48
42:WI:195:LEU:HD21	42:WI:428:LEU:HD13	1.95	0.48
41:WL:69:GLU:HB2	41:WL:96:GLY:HA2	1.94	0.48
7:1T:166:HIS:HB2	41:MD:359:ARG:HH22	1.76	0.48
12:2O:241:LEU:HD22	42:WC:42:ILE:HG13	1.94	0.48
13:2S:165:ARG:NH1	41:GH:219:THR:OG1	2.46	0.48
21:3S:161:ILE:HD11	42:KC:419:SER:HA	1.95	0.48
21:3U:223:SER:HB3	21:3U:226:LYS:HB3	1.95	0.48
26:4L:74:GLN:HA	26:4L:77:ILE:HB	1.94	0.48
26:4M:159:GLU:O	26:4M:163:GLN:HG3	2.13	0.48
31:5E:62:THR:HA	31:5E:65:ARG:HB3	1.95	0.48
31:5E:76:GLU:HA	31:5E:79:LYS:HB2	1.95	0.48
33:5Q:39:ARG:HH12	33:5R:292:GLU:HG3	1.77	0.48
34:6A:309:LEU:O	34:6A:310:ARG:C	2.51	0.48
34:6F:143:THR:OG1	34:6F:275:ARG:NH2	2.46	0.48
34:6J:124:THR:HG22	34:6K:437:ARG:HD2	1.95	0.48
34:6L:180:ARG:HH12	34:6L:325:ILE:HG22	1.78	0.48
35:6V:168:VAL:O	35:6V:170:ASP:N	2.44	0.48
38:7H:147:ARG:NH1	41:IF:209:ASP:OD1	2.46	0.48
41:AD:117:LEU:HB3	41:AD:121:ARG:HH22	1.78	0.48
42:AI:1:MET:O	42:AI:3:GLU:HG2	2.13	0.48
42:AI:187:SER:O	42:AI:190:THR:HG22	2.14	0.48
42:AK:248:LEU:HD21	42:AK:353:VAL:HB	1.94	0.48
41:AL:303:CYS:HB3	41:AL:376:GLU:HG2	1.94	0.48
41:BD:282:ARG:HG3	41:BD:283:ALA:N	2.29	0.48
42:CC:1:MET:SD	41:CD:94:GLN:HB3	2.53	0.48
42:CG:87:PHE:HB3	42:CG:92:LEU:CD2	2.43	0.48
42:CG:145:THR:N	45:CG:501:GTP:O2B	2.39	0.48
42:DC:75:ILE:HD11	42:DC:92:LEU:HD12	1.95	0.48
41:DH:101:TRP:HB3	41:DH:398:TYR:HE1	1.77	0.48
41:DH:109:GLY:HA3	41:DH:147:MET:SD	2.53	0.48
41:DH:170:VAL:HG11	41:DH:201:CYS:HB3	1.95	0.48
42:DI:18:ASN:HD21	42:DI:78:VAL:HB	1.79	0.48
41:DJ:313:VAL:HG12	41:DJ:367:PHE:CE1	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DK:346:TRP:O	41:DL:388:MET:HG2	2.13	0.48
42:DK:416:GLY:O	42:DK:417:GLU:C	2.52	0.48
42:DM:317:LEU:O	42:DM:354:GLY:N	2.41	0.48
42:EC:79:ARG:NH2	42:EC:94:THR:OG1	2.46	0.48
41:ED:201:CYS:O	41:ED:201:CYS:SG	2.71	0.48
41:EH:290:THR:HG22	41:EH:329:GLN:HG3	1.95	0.48
42:EI:3:GLU:HG2	42:EI:132:LEU:HA	1.95	0.48
41:EJ:24:ILE:HG13	41:EJ:27:GLU:OE2	2.13	0.48
42:FC:270:ALA:HA	42:FC:377:MET:O	2.13	0.48
42:FE:216:ASN:ND2	42:FE:275:VAL:O	2.47	0.48
41:FF:324:LYS:HA	41:FF:324:LYS:HD3	1.55	0.48
41:FF:372:THR:O	41:FF:374:ILE:N	2.47	0.48
42:FG:320:ARG:NH2	42:FG:358:GLN:OE1	2.46	0.48
42:FI:336:LYS:HZ2	42:FI:349:THR:HG22	1.76	0.48
42:FK:202:PHE:CZ	42:FK:378:LEU:HG	2.48	0.48
41:FL:7:LEU:O	41:FL:135:LEU:HG	2.14	0.48
41:FL:8:GLN:HB2	41:FL:14:ASN:HA	1.94	0.48
41:FL:56:GLY:O	41:FL:57:GLY:C	2.51	0.48
41:FL:126:SER:OG	41:FL:127:CYS:N	2.47	0.48
42:GC:213:CYS:HA	42:GC:217:LEU:HB2	1.95	0.48
41:GD:7:LEU:HG	41:GD:64:VAL:HG13	1.95	0.48
42:GE:262:TYR:HE1	42:GE:435:VAL:HG22	1.78	0.48
41:GF:1:MET:HA	41:GF:48:ASN:HD21	1.78	0.48
42:GI:53:PHE:CE2	42:GI:61:HIS:HB3	2.48	0.48
42:GI:360:PRO:HG3	42:GI:374:ALA:HB2	1.95	0.48
41:GJ:107:THR:OG1	41:GJ:108:GLU:N	2.45	0.48
42:GM:125:LEU:HA	42:GM:128:GLN:NE2	2.28	0.48
41:HB:2:ARG:HG3	41:HB:240:LEU:HD21	1.96	0.48
42:HC:261:PRO:HG3	42:HC:313:MET:HE3	1.96	0.48
41:HD:31:ASP:C	41:HD:33:THR:H	2.15	0.48
42:HG:194:THR:O	42:HG:195:LEU:C	2.52	0.48
41:HH:42:LEU:HD22	41:HH:243:PRO:HG2	1.95	0.48
42:HI:28:HIS:NE2	42:HI:243:ARG:HD2	2.29	0.48
42:HI:250:VAL:HG11	42:HI:318:LEU:HD22	1.94	0.48
42:HI:413:MET:HE2	42:HI:417:GLU:HB2	1.95	0.48
42:IG:278:ALA:HA	42:IG:369:ALA:HB2	1.94	0.48
41:JJ:205:GLU:HA	41:JJ:208:TYR:HB2	1.96	0.48
41:KH:117:LEU:HA	41:KH:120:VAL:HG12	1.95	0.48
42:KI:141:PHE:HB2	42:KI:173:PRO:HD3	1.95	0.48
41:KN:107:THR:OG1	41:KN:401:GLU:HB2	2.14	0.48
41:LD:293:MET:HG2	41:LD:367:PHE:HB2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:LE:16:ILE:HA	42:LE:228:ASN:HB3	1.96	0.48
41:LJ:198:GLU:HG2	41:LJ:266:PHE:HE2	1.79	0.48
42:MC:291:ILE:HD13	42:MC:373:ARG:HG3	1.95	0.48
42:MK:242:LEU:HD11	42:MK:252:LEU:HB2	1.96	0.48
42:MM:272:TYR:HD2	42:MM:275:VAL:HG23	1.78	0.48
42:NC:315:CYS:SG	42:NC:351:PHE:HA	2.53	0.48
42:NE:180:ALA:HB3	42:NE:183:GLU:HG3	1.96	0.48
41:NF:189:VAL:O	41:NF:193:VAL:HG23	2.13	0.48
41:NF:289:LEU:HD13	41:NF:363:MET:HE3	1.96	0.48
41:NJ:209:ASP:OD1	41:NJ:213:ARG:NH2	2.46	0.48
41:NL:11:GLN:HA	41:NL:72:THR:HG21	1.95	0.48
42:OA:16:ILE:O	42:OA:20:CYS:N	2.47	0.48
41:OB:107:THR:O	41:OB:109:GLY:N	2.45	0.48
42:OE:220:GLU:HG2	42:OE:222:PRO:HD3	1.96	0.48
41:OH:251:ARG:HE	41:OH:251:ARG:HB2	1.48	0.48
41:OH:268:PRO:HG2	41:OH:300:MET:HB2	1.95	0.48
42:OK:125:LEU:HA	42:OK:128:GLN:OE1	2.14	0.48
41:PD:58:LYS:HE3	41:QD:281:TYR:CE1	2.48	0.48
42:PE:319:TYR:HB2	42:PE:355:ILE:HA	1.96	0.48
42:PG:194:THR:O	42:PG:197:HIS:N	2.46	0.48
42:PG:272:TYR:HB3	42:PG:273:ALA:H	1.47	0.48
42:PI:252:LEU:HA	42:PI:255:PHE:CE2	2.48	0.48
42:PI:362:VAL:HG21	42:PI:370:LYS:HB3	1.94	0.48
41:QB:113:VAL:HG11	41:QB:150:LEU:HD22	1.95	0.48
42:QC:68:VAL:HG23	42:QC:93:ILE:HD11	1.95	0.48
41:QD:66:VAL:HA	41:QD:91:VAL:HG12	1.94	0.48
41:QD:269:GLY:HA2	41:QD:300:MET:HG3	1.95	0.48
42:QE:350:GLY:HA3	41:QF:179:VAL:HG12	1.96	0.48
42:QG:140:SER:OG	42:QG:140:SER:O	2.31	0.48
41:QH:376:GLU:HA	41:QH:379:LYS:HD2	1.95	0.48
41:QJ:66:VAL:HB	41:QJ:91:VAL:HB	1.95	0.48
41:QL:238:THR:O	41:QL:240:LEU:N	2.47	0.48
41:RB:69:GLU:HB3	41:RB:96:GLY:HA3	1.95	0.48
41:RB:161:ASP:OD1	41:RB:162:ARG:N	2.42	0.48
42:RC:219:ILE:HD13	42:RC:226:ASN:HD22	1.78	0.48
41:RF:131:GLN:HE22	41:RF:250:LEU:H	1.62	0.48
41:RF:144:GLY:O	41:RF:145:SER:C	2.52	0.48
41:RJ:401:GLU:O	41:RJ:402:GLY:C	2.51	0.48
41:SD:246:LEU:HB2	41:SD:353:VAL:H	1.78	0.48
41:SD:296:ALA:HA	41:SD:299:MET:HG2	1.94	0.48
42:SE:120:ASP:O	42:SE:123:ARG:HB3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:SF:163:ILE:HD11	41:SF:251:ARG:HG3	1.96	0.48
42:SG:169:PHE:HE2	42:SG:234:ILE:HG22	1.78	0.48
41:SL:204:ASN:ND2	43:SL:501:GDP:HN22	2.11	0.48
42:TE:64:ARG:HH21	42:TE:129:CYS:HB3	1.78	0.48
41:TF:309:ARG:N	41:TF:372:THR:OG1	2.45	0.48
42:TK:304:LYS:HA	42:TK:304:LYS:HD2	1.46	0.48
42:TK:316:CYS:SG	42:TK:378:LEU:HB2	2.53	0.48
41:TL:317:PHE:N	41:TL:352:ALA:O	2.42	0.48
42:UI:296:PHE:HB3	42:UI:341:ILE:HG12	1.96	0.48
41:VF:334:GLN:NE2	41:VF:348:ASN:H	2.09	0.48
41:VJ:211:CYS:SG	41:VJ:220:PRO:HB3	2.52	0.48
41:VJ:426:GLN:HG3	41:VJ:427:ASP:H	1.77	0.48
42:VK:276:ILE:HD13	42:VK:286:LEU:HD21	1.96	0.48
42:VK:411:GLU:H	42:VK:411:GLU:HG2	1.51	0.48
41:WD:324:LYS:HE3	42:WE:222:PRO:HD2	1.94	0.48
42:WE:21:TRP:CZ2	42:WE:65:ALA:HB2	2.48	0.48
41:WH:323:MET:HG2	41:WH:353:VAL:HG21	1.95	0.48
42:WK:16:ILE:HA	42:WK:228:ASN:HB3	1.95	0.48
41:WL:252:LYS:NZ	45:WM:501:GTP:O3G	2.46	0.48
14:2Y:170:PHE:HZ	42:OK:371:VAL:HG22	1.78	0.48
19:3K:34:ARG:O	19:3K:36:GLY:N	2.46	0.48
19:3K:472:VAL:HG11	19:3K:498:VAL:HA	1.95	0.48
19:3L:494:ALA:H	19:3L:504:VAL:HG23	1.79	0.48
22:4A:187:ARG:HG2	22:4A:206:GLU:OE2	2.13	0.48
22:4C:112:ALA:O	22:4C:116:ASN:ND2	2.46	0.48
31:5E:103:THR:HG21	31:5E:144:ILE:HD11	1.95	0.48
32:5M:293:GLU:HB2	34:6B:183:ARG:HH22	1.79	0.48
32:5O:391:VAL:HG22	32:5O:392:PRO:HD3	1.96	0.48
33:5R:99:ALA:HA	33:5R:247:ILE:HD11	1.96	0.48
33:5V:258:ARG:HD3	33:5V:397:LEU:HD13	1.95	0.48
34:6A:156:TRP:HH2	34:6A:305:ASP:HB3	1.79	0.48
35:6T:414:LYS:HD3	35:6T:414:LYS:HA	1.59	0.48
35:6V:408:THR:OG1	35:6W:70:ASP:OD2	2.31	0.48
37:7C:103:PRO:HG3	42:SM:123:ARG:HH21	1.78	0.48
37:7C:108:PRO:HD2	42:TM:308:ARG:HH12	1.77	0.48
37:7D:29:LYS:CA	42:TE:308:ARG:HH21	2.26	0.48
42:AK:138:PHE:CZ	42:AK:235:VAL:HG21	2.48	0.48
41:BB:177:ASP:OD1	41:BB:178:THR:N	2.46	0.48
41:CB:237:THR:OG1	41:CB:241:ARG:NH1	2.47	0.48
41:CD:20:PHE:HZ	41:CD:50:TYR:CE1	2.31	0.48
41:CD:97:ALA:O	41:CD:98:GLY:C	2.51	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:CF:358:PRO:CD	41:CF:364:SER:HB3	2.42	0.48
42:CG:168:GLU:HG3	42:CG:201:ALA:HA	1.94	0.48
42:CG:218:ASP:O	42:CG:219:ILE:C	2.52	0.48
41:CH:150:LEU:HD12	41:CH:154:LYS:NZ	2.28	0.48
42:CK:215:ARG:CZ	42:CK:299:ALA:HB1	2.43	0.48
42:CM:209:ILE:HG21	42:CM:227:LEU:HG	1.96	0.48
41:DB:293:MET:HE1	41:DB:365:ALA:HB3	1.95	0.48
42:DC:431:ASP:HA	42:DC:434:GLU:HG2	1.95	0.48
42:DE:88:HIS:HE1	42:EE:280:LYS:HB3	1.79	0.48
41:DH:73:MET:HE3	41:DH:73:MET:HB2	1.64	0.48
41:DH:103:LYS:HA	41:DH:108:GLU:HB2	1.95	0.48
41:DH:173:PRO:C	41:DH:175:VAL:H	2.16	0.48
41:DJ:263:LEU:HD12	41:DJ:263:LEU:H	1.78	0.48
42:DK:102:ASN:HD22	42:DK:105:ARG:HG2	1.78	0.48
41:DL:66:VAL:HG12	41:DL:91:VAL:HB	1.94	0.48
42:EC:307:PRO:HA	42:EC:383:ALA:HB2	1.95	0.48
42:EE:108:TYR:OH	42:EE:413:MET:SD	2.71	0.48
41:EF:179:VAL:HG13	41:EF:180:VAL:HG13	1.95	0.48
42:EG:325:PRO:O	42:EG:328:VAL:HG22	2.13	0.48
41:EH:113:VAL:HG22	41:EH:117:LEU:HD23	1.94	0.48
42:EK:5:ILE:HD12	42:EK:135:PHE:CE1	2.48	0.48
42:EK:88:HIS:ND1	42:EK:92:LEU:HB2	2.28	0.48
42:EK:262:TYR:CD2	42:EK:435:VAL:HG23	2.47	0.48
41:EL:372:THR:HG21	41:EL:426:GLN:HB2	1.95	0.48
42:EM:317:LEU:HB3	42:EM:319:TYR:CE2	2.49	0.48
42:FC:112:LYS:O	42:FC:113:GLU:C	2.52	0.48
41:FF:323:MET:HE3	41:FF:323:MET:HB2	1.83	0.48
41:FJ:272:PRO:HG2	41:FJ:364:SER:HA	1.95	0.48
41:FJ:310:TYR:HA	41:FJ:371:SER:HA	1.94	0.48
41:FJ:324:LYS:HD3	41:FJ:324:LYS:N	2.29	0.48
41:FL:295:ASP:O	41:FL:296:ALA:C	2.51	0.48
42:FM:165:SER:OG	42:FM:256:GLN:OE1	2.30	0.48
41:GH:148:GLY:O	41:GH:152:ILE:HG12	2.14	0.48
42:GM:103:TYR:H	42:GM:186:ASN:HD21	1.61	0.48
42:GM:167:LEU:HD11	42:GM:252:LEU:HD13	1.95	0.48
41:HD:117:LEU:HD11	41:HD:154:LYS:HB3	1.95	0.48
41:HD:252:LYS:C	41:HD:254:ALA:H	2.15	0.48
41:HD:275:SER:OG	41:HD:276:ARG:N	2.47	0.48
42:HI:106:GLY:HA2	42:HI:149:PHE:HE1	1.79	0.48
42:HI:395:PHE:CD2	42:HI:422:ARG:HG2	2.48	0.48
42:HK:278:ALA:HA	42:HK:369:ALA:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:HL:255:VAL:HG11	42:HM:100:ALA:O	2.13	0.48
41:IH:10:GLY:O	41:IH:14:ASN:ND2	2.31	0.48
41:IJ:12:CYS:HB3	41:IJ:138:SER:HB3	1.95	0.48
41:IN:311:LEU:HA	41:IN:342:VAL:HG22	1.96	0.48
42:JC:22:GLU:OE1	42:JC:229:ARG:NH2	2.46	0.48
42:JG:26:LEU:HD21	42:JG:364:PRO:HD3	1.94	0.48
42:JG:399:TYR:OH	42:JG:402:ARG:NH2	2.46	0.48
42:JM:34:GLY:HA2	42:JM:86:LEU:HD12	1.94	0.48
41:KD:311:LEU:O	41:KD:348:ASN:ND2	2.46	0.48
41:KF:255:VAL:HG23	42:KG:407:TRP:CG	2.49	0.48
42:LC:27:GLU:OE2	42:LC:243:ARG:NH1	2.46	0.48
42:LC:349:THR:HG21	41:LD:176:SER:HB3	1.96	0.48
42:LK:204:VAL:HG23	42:LK:302:MET:HB3	1.96	0.48
41:LL:237:THR:HG23	41:LL:240:LEU:HD12	1.96	0.48
41:MD:137:HIS:HE1	41:MD:192:LEU:HD11	1.78	0.48
42:ME:169:PHE:HZ	42:ME:231:ILE:HD12	1.77	0.48
41:MF:325:GLU:HA	41:MF:328:GLU:HG2	1.96	0.48
41:MF:391:ARG:O	41:MF:392:LYS:C	2.50	0.48
42:MK:262:TYR:CE2	42:MK:435:VAL:HG21	2.48	0.48
42:MM:296:PHE:CZ	42:MM:335:ILE:HG21	2.47	0.48
42:NA:218:ASP:O	42:NA:219:ILE:C	2.51	0.48
42:NE:5:ILE:HG13	42:NE:132:LEU:HD11	1.96	0.48
41:NL:31:ASP:OD2	41:NL:37:HIS:ND1	2.46	0.48
42:OG:260:VAL:HG13	41:OH:397:TRP:CZ2	2.48	0.48
42:OI:228:ASN:OD1	45:OI:501:GTP:N1	2.41	0.48
41:OJ:323:MET:SD	41:OJ:323:MET:N	2.86	0.48
41:OL:39:ASP:OD1	41:OL:40:SER:N	2.46	0.48
41:PB:57:GLY:O	41:PB:59:TYR:N	2.46	0.48
41:PB:283:ALA:O	41:PB:285:THR:N	2.46	0.48
42:PC:115:ILE:HA	42:PC:115:ILE:HD12	1.74	0.48
41:PF:20:PHE:CE1	41:PF:24:ILE:HG21	2.47	0.48
42:PG:6:SER:HB3	42:PG:8:HIS:HE1	1.79	0.48
42:PG:261:PRO:HB3	42:PG:346:TRP:CH2	2.49	0.48
41:PJ:105:HIS:HA	41:PJ:150:LEU:HB2	1.95	0.48
41:PJ:202:ILE:H	41:PJ:202:ILE:HG13	1.30	0.48
41:QF:11:GLN:NE2	41:QF:69:GLU:OE1	2.46	0.48
41:QF:134:GLN:HB2	41:QF:165:ASN:HB2	1.94	0.48
41:QH:214:THR:O	41:QH:216:LYS:N	2.47	0.48
42:QI:176:GLN:O	42:QI:177:VAL:C	2.51	0.48
41:QJ:139:LEU:HD13	41:QJ:170:VAL:HA	1.96	0.48
41:QJ:350:LYS:HA	41:QJ:350:LYS:HD2	1.67	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:QK:146:GLY:O	42:QK:147:SER:C	2.51	0.48
41:QL:180:VAL:HG13	41:QL:398:TYR:OH	2.14	0.48
41:RB:189:VAL:HG23	41:RB:192:LEU:HD23	1.95	0.48
41:RB:309:ARG:HD2	41:RB:427:ASP:HA	1.96	0.48
41:RD:126:SER:O	41:RD:127:CYS:C	2.50	0.48
42:RE:250:VAL:HA	42:RE:254:GLU:OE1	2.13	0.48
42:RI:405:VAL:HG12	42:RI:409:VAL:HG23	1.96	0.48
41:SD:275:SER:OG	41:SD:276:ARG:N	2.47	0.48
41:SD:284:LEU:HD13	41:SD:362:LYS:HB2	1.95	0.48
41:SF:181:GLU:HG2	41:SF:182:PRO:HD3	1.94	0.48
41:SF:335:ASN:O	41:SF:336:LYS:C	2.52	0.48
42:SM:26:LEU:HB3	42:SM:361:THR:HG21	1.94	0.48
42:SM:316:CYS:HA	42:SM:352:LYS:H	1.77	0.48
42:TC:185:TYR:CZ	42:TC:398:MET:HG2	2.48	0.48
41:TD:100:ASN:HB3	41:TD:103:LYS:HB2	1.94	0.48
41:TJ:68:LEU:HD11	41:TJ:147:MET:HE3	1.95	0.48
41:TJ:238:THR:HG21	41:TJ:318:ARG:HH11	1.78	0.48
41:TL:20:PHE:HZ	41:TL:50:TYR:HE2	1.62	0.48
41:TL:242:PHE:HB3	41:TL:356:ILE:HD12	1.95	0.48
42:TM:377:MET:SD	42:TM:379:SER:HB3	2.53	0.48
42:UE:107:HIS:HD2	42:UE:108:TYR:CE1	2.31	0.48
42:UG:8:HIS:CD2	42:UG:17:GLY:HA3	2.48	0.48
42:UG:119:LEU:HD11	42:UG:156:ARG:HB3	1.95	0.48
41:UJ:143:THR:OG1	43:UJ:501:GDP:O2B	2.31	0.48
42:UK:105:ARG:CG	42:UK:110:ILE:HG22	2.40	0.48
41:UL:257:MET:O	41:UL:312:THR:OG1	2.27	0.48
42:UM:208:ALA:HB2	42:UM:304:LYS:HG2	1.95	0.48
42:UM:241:SER:OG	42:UM:249:ASN:OD1	2.24	0.48
42:VC:121:ARG:HE	42:VC:124:LYS:HG3	1.79	0.48
42:VI:335:ILE:HG23	42:VI:341:ILE:HD13	1.96	0.48
41:WF:226:ASN:HD21	43:WF:501:GDP:HN1	1.61	0.48
41:WH:215:LEU:HD21	41:WH:273:LEU:HD23	1.96	0.48
42:WI:100:ALA:O	42:WI:101:ASN:C	2.51	0.48
41:WJ:27:GLU:OE2	41:WJ:318:ARG:NH1	2.46	0.48
5:1N:2:ALA:HB3	42:KC:348:PRO:HA	1.96	0.48
9:2D:575:ARG:NH2	41:IN:360:GLY:C	2.66	0.48
12:2P:241:LEU:HD22	42:WG:42:ILE:HD11	1.94	0.48
19:3L:440:LEU:HD13	19:3L:451:ILE:HD13	1.94	0.48
21:3U:222:ASP:OD2	42:VI:130:THR:OG1	2.23	0.48
32:5O:379:LYS:HA	32:5O:379:LYS:HD3	1.66	0.48
33:5T:92:LEU:HD21	33:5T:239:LEU:HD23	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:5T:274:LYS:HA	33:5T:274:LYS:HD3	1.52	0.48
33:5T:304:LEU:HD11	33:5T:353:LYS:HG3	1.94	0.48
34:6K:202:ARG:HH22	34:6K:215:VAL:HG11	1.79	0.48
34:6L:170:GLU:OE2	34:6L:322:ARG:NH2	2.47	0.48
35:6S:344:LYS:HA	35:6S:347:GLU:HG2	1.94	0.48
35:6T:352:VAL:HG23	35:6U:231:TYR:HD2	1.77	0.48
35:6T:399:GLU:HB2	35:6T:403:ARG:HH22	1.78	0.48
35:6V:351:LYS:HD3	35:6W:238:VAL:HG13	1.96	0.48
42:AC:350:GLY:H	41:AD:179:VAL:HG23	1.78	0.48
41:AF:207:LEU:HB3	41:AF:225:LEU:HD22	1.95	0.48
42:AI:2:ARG:O	42:AI:51:THR:HA	2.14	0.48
42:AI:103:TYR:HD1	42:AI:413:MET:HE1	1.78	0.48
41:BB:182:PRO:HG2	41:BB:384:GLN:HG2	1.95	0.48
41:BD:318:ARG:HD3	41:BD:358:PRO:HD3	1.95	0.48
41:BD:377:LEU:HD12	41:BD:380:ARG:HH12	1.78	0.48
42:BE:298:PRO:HA	42:BE:301:GLN:HG2	1.94	0.48
42:BK:406:HIS:HA	42:BK:409:VAL:HG12	1.94	0.48
42:CC:102:ASN:O	42:CC:103:TYR:C	2.51	0.48
42:CC:414:GLU:O	42:CC:415:GLU:C	2.50	0.48
42:CE:7:VAL:HG13	42:CE:137:ILE:HG23	1.95	0.48
41:DF:83:GLN:O	41:EF:281:TYR:OH	2.27	0.48
42:DG:278:ALA:HA	42:DG:369:ALA:HB2	1.94	0.48
41:DH:60:VAL:HG11	41:DH:86:ARG:HB3	1.96	0.48
41:DH:107:THR:OG1	41:DH:108:GLU:N	2.47	0.48
41:ED:6:HIS:HB2	41:ED:21:TRP:HZ2	1.79	0.48
42:EE:17:GLY:HA3	42:EE:67:PHE:HE1	1.78	0.48
42:EG:207:GLU:O	42:EG:210:TYR:HB2	2.14	0.48
42:EI:109:THR:HG21	42:EI:411:GLU:HB3	1.94	0.48
42:FC:13:GLY:O	42:FC:17:GLY:N	2.44	0.48
41:FD:98:GLY:O	41:FD:100:ASN:HB2	2.14	0.48
41:FD:266:PHE:HB3	41:FD:368:ILE:HG13	1.94	0.48
42:FE:257:THR:OG1	41:FF:98:GLY:O	2.32	0.48
42:FG:206:ASN:HB3	42:FG:209:ILE:HD12	1.94	0.48
41:FH:99:ASN:HD21	41:FH:178:THR:HB	1.79	0.48
41:FJ:7:LEU:HB3	41:FJ:135:LEU:HD13	1.94	0.48
41:FJ:173:PRO:HA	41:FJ:380:ARG:HE	1.78	0.48
41:FJ:253:LEU:HD23	41:FJ:368:ILE:HD11	1.94	0.48
41:FL:344:TRP:HA	41:FL:344:TRP:CE3	2.49	0.48
41:FL:345:ILE:HD13	42:FM:401:LYS:CE	2.43	0.48
42:FM:62:VAL:HG21	42:FM:88:HIS:HD2	1.79	0.48
42:FM:121:ARG:HA	42:FM:121:ARG:HD3	1.65	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:GC:6:SER:HB3	42:GC:136:LEU:HD12	1.95	0.48
41:GD:372:THR:HA	41:GD:422:TYR:CD2	2.49	0.48
42:GE:90:GLU:OE1	42:GE:121:ARG:NH1	2.46	0.48
42:GE:388:TRP:HD1	42:GE:391:LEU:HD12	1.78	0.48
42:GE:390:ARG:O	42:GE:394:LYS:N	2.43	0.48
41:GH:13:GLY:HA2	41:GH:136:THR:HG22	1.96	0.48
42:GI:269:LEU:HD21	42:GI:384:ILE:HD13	1.95	0.48
41:GJ:362:LYS:HE2	41:GJ:362:LYS:HB3	1.43	0.48
42:HE:154:MET:HB3	42:HE:197:HIS:CG	2.48	0.48
41:HH:206:ALA:HB2	41:HH:302:ALA:HA	1.96	0.48
41:HJ:1:MET:HG2	42:HK:96:LYS:HG2	1.96	0.48
41:HL:166:THR:HG21	41:HL:192:LEU:HD11	1.95	0.48
42:IE:72:PRO:O	42:IE:73:THR:C	2.51	0.48
42:IG:318:LEU:HD23	42:IG:354:GLY:HA3	1.95	0.48
42:II:36:MET:HG3	42:II:61:HIS:CE1	2.48	0.48
42:IK:211:ASP:HB3	42:IK:215:ARG:HH21	1.79	0.48
41:JF:165:ASN:HD22	41:JF:198:GLU:HB2	1.78	0.48
42:JG:5:ILE:HD12	42:JG:135:PHE:HE1	1.76	0.48
41:JH:330:MET:SD	41:JH:349:VAL:HG13	2.53	0.48
42:JI:211:ASP:O	42:JI:215:ARG:HG2	2.14	0.48
42:JM:93:ILE:HD12	42:JM:117:LEU:HD12	1.95	0.48
41:KN:226:ASN:OD1	43:KN:501:GDP:N1	2.43	0.48
42:LC:5:ILE:HG22	42:LC:132:LEU:HD11	1.96	0.48
41:LD:16:ILE:HG12	41:LD:226:ASN:OD1	2.14	0.48
42:LI:406:HIS:HA	42:LI:409:VAL:HG22	1.95	0.48
41:LL:251:ARG:HH22	42:LM:97:GLU:CD	2.17	0.48
42:NA:2:ARG:HD2	42:NA:242:LEU:HG	1.94	0.48
42:NC:326:LYS:HB2	41:ND:220:PRO:HG3	1.95	0.48
41:NF:102:ALA:HA	41:NF:106:TYR:HD2	1.78	0.48
41:NL:149:THR:HA	41:NL:152:ILE:HG22	1.95	0.48
42:OE:286:LEU:HD12	42:OE:371:VAL:HG11	1.95	0.48
41:OF:258:VAL:HB	42:OG:407:TRP:HZ2	1.79	0.48
41:OJ:363:MET:HE3	41:OJ:363:MET:HB3	1.70	0.48
42:OK:238:ILE:HD11	42:OK:378:LEU:HD21	1.96	0.48
42:PA:304:LYS:HE3	42:PA:304:LYS:HB2	1.39	0.48
41:PB:148:GLY:O	41:PB:152:ILE:HG13	2.14	0.48
41:PB:173:PRO:HG2	41:PB:174:LYS:HE2	1.95	0.48
41:PB:339:SER:O	41:PB:340:TYR:C	2.52	0.48
41:PF:236:VAL:HG23	41:PF:368:ILE:HG13	1.96	0.48
42:PG:31:GLN:HB2	42:PG:37:PRO:HD3	1.95	0.48
42:PG:185:TYR:C	42:PG:187:SER:H	2.17	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:PG:400:ALA:HA	42:PG:418:PHE:HD2	1.77	0.48
41:PH:204:ASN:ND2	43:PH:501:GDP:O2'	2.47	0.48
41:PH:306:ARG:HE	41:PH:306:ARG:HB2	1.35	0.48
41:PL:395:LEU:HA	41:PL:398:TYR:CB	2.43	0.48
41:QB:260:PHE:O	41:QB:262:ARG:N	2.45	0.48
41:QB:347:ASN:HB3	42:QC:181:VAL:HG22	1.95	0.48
41:QF:313:VAL:N	41:QF:348:ASN:O	2.39	0.48
42:QI:281:ALA:O	42:QI:284:GLU:HG3	2.11	0.48
41:QJ:112:LEU:O	41:QJ:113:VAL:C	2.51	0.48
42:QK:5:ILE:HG22	42:QK:132:LEU:HD11	1.95	0.48
42:QK:262:TYR:H	42:QK:265:ILE:HD11	1.78	0.48
41:RB:49:VAL:HG21	41:RB:241:ARG:HB3	1.95	0.48
41:RD:348:ASN:OD1	41:RD:348:ASN:N	2.45	0.48
42:RE:30:ILE:HG23	42:RE:34:GLY:HA2	1.95	0.48
42:RE:158:SER:HA	42:RE:166:LYS:HE3	1.95	0.48
42:RE:320:ARG:HG2	42:RE:356:ASN:HD22	1.78	0.48
41:RF:176:SER:O	41:RF:177:ASP:C	2.52	0.48
41:RF:259:PRO:HA	42:RG:404:PHE:CE1	2.49	0.48
42:RI:296:PHE:CE1	42:RI:335:ILE:HG12	2.49	0.48
41:RJ:345:ILE:HD12	41:RJ:346:PRO:HD2	1.95	0.48
42:RK:90:GLU:OE2	42:SK:280:LYS:HD2	2.14	0.48
42:RK:434:GLU:O	41:RL:391:ARG:NH1	2.46	0.48
41:RL:316:VAL:HB	41:RL:366:THR:HB	1.94	0.48
42:SC:9:VAL:HG21	42:SC:153:LEU:HD13	1.95	0.48
42:SC:167:LEU:HD13	42:SC:252:LEU:HD11	1.95	0.48
41:SF:36:TYR:CZ	41:SF:44:LEU:HB2	2.49	0.48
42:SG:51:THR:HG21	42:SG:243:ARG:HG2	1.95	0.48
41:SH:152:ILE:HD11	41:SH:166:THR:HG21	1.94	0.48
42:SI:395:PHE:CZ	42:SI:418:PHE:HB3	2.49	0.48
42:SK:280:LYS:NZ	42:SK:284:GLU:OE2	2.46	0.48
41:SL:128:ASP:OD1	41:SL:128:ASP:N	2.42	0.48
41:SL:233:MET:HE2	41:SL:233:MET:HB2	1.69	0.48
41:SL:358:PRO:O	41:SL:359:ARG:C	2.51	0.48
42:TE:76:ASP:O	42:TE:80:THR:HG22	2.13	0.48
41:TF:289:LEU:O	41:TF:293:MET:HG2	2.13	0.48
42:TK:100:ALA:O	42:TK:101:ASN:C	2.52	0.48
42:TK:317:LEU:HB2	42:TK:353:VAL:HG22	1.95	0.48
41:TL:1:MET:N	41:TL:128:ASP:OD1	2.41	0.48
42:UG:56:THR:O	42:VG:285:GLN:HB3	2.14	0.48
42:UK:329:ASN:HD21	41:UL:174:LYS:HD2	1.79	0.48
41:UL:183:TYR:HE2	41:UL:395:LEU:HD12	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:UL:387:ALA:HA	41:UL:390:ARG:HE	1.79	0.48
41:VD:325:GLU:OE2	42:VE:221:ARG:NH1	2.44	0.48
42:VI:274:PRO:HG2	42:VI:374:ALA:HA	1.96	0.48
41:VL:26:ASP:O	41:VL:359:ARG:NH2	2.47	0.48
41:WJ:200:TYR:HE1	41:WJ:266:PHE:HD2	1.62	0.48
22:3Z:196:PHE:HA	22:3Z:199:LEU:HB3	1.94	0.48
24:4F:17:LEU:HD13	24:4F:17:LEU:HA	1.72	0.48
24:4G:325:TYR:HB3	41:HH:360:GLY:HA2	1.96	0.48
26:4K:242:LEU:HD11	42:GE:156:ARG:NE	2.29	0.48
30:5A:40:ASP:HB2	42:LM:372:GLN:OE1	2.13	0.48
33:5X:12:PHE:O	33:5X:13:ARG:NH1	2.47	0.48
34:6C:149:ARG:HE	34:6C:149:ARG:HB2	1.47	0.48
34:6K:467:TYR:O	34:6K:471:ASP:HB2	2.14	0.48
35:6T:168:VAL:HG21	35:6U:56:TRP:CD1	2.45	0.48
41:AB:317:PHE:HA	41:AB:365:ALA:HA	1.95	0.48
41:AF:324:LYS:HE2	42:AG:214:ARG:HD2	1.96	0.48
42:BC:102:ASN:ND2	42:BC:411:GLU:OE1	2.47	0.48
41:BL:172:SER:OG	41:BL:175:VAL:O	2.30	0.48
41:CB:17:GLY:O	41:CB:21:TRP:N	2.43	0.48
41:CD:98:GLY:O	41:CD:100:ASN:N	2.47	0.48
41:CD:393:ALA:O	41:CD:394:PHE:C	2.52	0.48
41:CH:54:ALA:HB1	41:DH:282:ARG:H	1.79	0.48
41:DB:143:THR:HG23	41:DB:144:GLY:H	1.77	0.48
41:DH:3:GLU:HA	41:DH:49:VAL:HA	1.95	0.48
41:DH:207:LEU:HG	41:DH:300:MET:CE	2.43	0.48
41:DL:237:THR:HG23	41:DL:240:LEU:HD12	1.96	0.48
42:EC:139:HIS:CE1	42:EC:170:SER:HG	2.31	0.48
41:ED:385:PHE:HA	41:ED:388:MET:HG3	1.94	0.48
42:EG:10:GLY:O	42:EG:13:GLY:N	2.41	0.48
42:EG:401:LYS:O	42:EG:403:ALA:N	2.46	0.48
41:EH:268:PRO:HG2	41:EH:300:MET:HE2	1.95	0.48
41:EH:324:LYS:HD3	42:EI:222:PRO:HD2	1.96	0.48
41:EJ:252:LYS:HG3	41:EJ:350:LYS:NZ	2.28	0.48
41:EJ:383:GLU:O	41:EJ:387:ALA:N	2.41	0.48
42:FG:209:ILE:HG12	42:FG:302:MET:SD	2.53	0.48
41:FJ:86:ARG:HB3	41:FJ:89:ASN:HB2	1.94	0.48
42:FK:104:ALA:C	42:FK:106:GLY:H	2.16	0.48
42:FK:156:ARG:C	42:FK:158:SER:H	2.16	0.48
42:FK:217:LEU:HD22	42:FK:367:ASP:HB3	1.96	0.48
42:GC:49:PHE:HE2	42:GC:55:GLU:HB2	1.79	0.48
41:GJ:221:THR:C	41:GJ:223:GLY:H	2.17	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:GJ:259:PRO:HA	42:GK:404:PHE:CE1	2.48	0.48
41:GJ:355:ASP:O	41:GJ:356:ILE:C	2.52	0.48
42:HC:182:VAL:O	42:HC:183:GLU:C	2.52	0.48
41:HF:247:ASN:ND2	41:HF:247:ASN:O	2.47	0.48
41:HH:267:MET:HB2	41:HH:374:ILE:HD11	1.96	0.48
42:HI:274:PRO:HG3	42:HI:374:ALA:HA	1.95	0.48
42:HI:313:MET:HE1	42:HI:432:TYR:HE2	1.77	0.48
42:HK:109:THR:HG22	42:HK:110:ILE:H	1.79	0.48
42:HK:144:GLY:N	45:HK:501:GTP:O2G	2.46	0.48
41:IF:39:ASP:OD1	41:IF:40:SER:N	2.47	0.48
42:IG:70:LEU:HA	42:IG:95:GLY:HA3	1.96	0.48
42:II:60:LYS:HG2	41:JH:281:TYR:CE1	2.49	0.48
42:II:194:THR:O	42:II:198:SER:OG	2.20	0.48
41:IJ:2:ARG:NH2	42:IK:73:THR:HG23	2.29	0.48
41:IN:290:THR:HG21	41:IN:329:GLN:CG	2.37	0.48
41:JF:91:VAL:HG21	41:JF:116:VAL:HG22	1.95	0.48
41:JH:323:MET:HG3	42:JI:224:TYR:CE1	2.49	0.48
41:JJ:203:ASP:HB2	41:JJ:302:ALA:H	1.78	0.48
41:JJ:330:MET:SD	41:JJ:351:THR:OG1	2.72	0.48
42:JK:9:VAL:HG13	42:JK:68:VAL:HB	1.95	0.48
41:JL:248:ALA:HA	41:JL:252:LYS:HD3	1.95	0.48
41:KH:256:ASN:HD21	42:KI:101:ASN:HB2	1.79	0.48
41:KJ:7:LEU:HG	41:KJ:135:LEU:HD13	1.96	0.48
41:KJ:320:ARG:NH1	41:KJ:355:ASP:HB3	2.29	0.48
42:KK:3:GLU:HA	42:KK:51:THR:HA	1.96	0.48
42:KM:88:HIS:ND1	42:KM:89:PRO:HD2	2.29	0.48
42:KM:319:TYR:HB3	42:KM:323:VAL:HG11	1.96	0.48
41:MF:308:GLY:HA2	41:MF:426:GLN:HE22	1.79	0.48
41:MH:3:GLU:O	41:MH:131:GLN:N	2.46	0.48
41:MN:267:MET:HE1	41:MN:371:SER:HB3	1.94	0.48
42:NC:115:ILE:HG23	42:NC:119:LEU:HD23	1.94	0.48
41:NF:252:LYS:HG2	42:NG:100:ALA:HA	1.95	0.48
42:NG:346:TRP:CZ2	42:NG:435:VAL:HG22	2.48	0.48
41:NJ:141:GLY:O	41:NJ:145:SER:OG	2.23	0.48
42:NK:22:GLU:HB3	42:NK:83:TYR:CE1	2.48	0.48
42:NK:252:LEU:HD13	42:NK:252:LEU:HA	1.67	0.48
41:NL:416:ASN:HA	41:NL:419:VAL:HB	1.95	0.48
41:OB:42:LEU:HD12	41:OB:45:GLU:HG3	1.94	0.48
41:OD:32:PRO:HG3	41:OD:81:PHE:HE1	1.79	0.48
42:OI:64:ARG:HG3	42:OI:125:LEU:HD21	1.95	0.48
42:OK:240:ALA:HA	42:OK:243:ARG:HE	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:PA:131:GLY:O	42:PA:132:LEU:C	2.52	0.48
42:PA:254:GLU:HG3	42:PA:255:PHE:N	2.28	0.48
42:PA:306:ASP:HB3	42:PA:309:HIS:HB3	1.96	0.48
41:PB:142:GLY:N	43:PB:501:GDP:O1B	2.47	0.48
42:PC:164:LYS:O	42:PC:165:SER:C	2.52	0.48
42:PC:346:TRP:CZ2	41:PD:393:ALA:HB3	2.49	0.48
42:PG:338:LYS:O	42:PG:339:ARG:C	2.52	0.48
41:PH:258:VAL:HG11	42:PI:407:TRP:HE1	1.78	0.48
42:PI:121:ARG:O	42:PI:122:ILE:C	2.51	0.48
42:PI:209:ILE:HG12	42:PI:227:LEU:HD22	1.95	0.48
41:PJ:290:THR:C	41:PJ:292:GLN:H	2.15	0.48
41:QB:354:CYS:SG	41:QB:356:ILE:HG12	2.54	0.48
41:QD:25:SER:OG	41:QD:30:ILE:O	2.31	0.48
41:QD:323:MET:HA	41:QD:326:VAL:HG12	1.96	0.48
41:QJ:100:ASN:O	41:QJ:101:TRP:C	2.52	0.48
41:QJ:169:VAL:HG22	41:QJ:202:ILE:HD11	1.95	0.48
41:RB:62:ARG:NH2	41:RB:123:GLU:O	2.47	0.48
41:RD:72:THR:O	41:RD:76:VAL:HG23	2.13	0.48
42:RE:26:LEU:HD22	42:RE:364:PRO:HD3	1.96	0.48
41:RF:64:VAL:HG12	41:RF:91:VAL:HG12	1.96	0.48
41:RH:259:PRO:HG3	41:RH:311:LEU:HD13	1.95	0.48
42:RK:151:SER:HA	42:RK:154:MET:HG2	1.94	0.48
42:RK:319:TYR:HB3	42:RK:323:VAL:HG21	1.94	0.48
42:SC:21:TRP:CH2	42:SC:52:PHE:HD2	2.31	0.48
41:SD:62:ARG:HH12	41:SD:126:SER:HB3	1.78	0.48
41:SF:67:ASP:HB3	41:SF:92:PHE:CE1	2.49	0.48
41:SF:338:SER:O	41:SF:339:SER:C	2.51	0.48
42:SG:122:ILE:HD13	42:SG:157:LEU:HD21	1.96	0.48
41:SH:268:PRO:HD2	41:SH:300:MET:HB2	1.96	0.48
41:SJ:375:GLN:O	41:SJ:379:LYS:N	2.38	0.48
42:TC:5:ILE:HG22	42:TC:64:ARG:HG3	1.96	0.48
41:TH:49:VAL:HG21	41:TH:241:ARG:HB3	1.95	0.48
41:TH:375:GLN:HA	41:TH:378:PHE:HB2	1.95	0.48
42:UE:3:GLU:HA	42:UE:51:THR:HA	1.95	0.48
42:UI:353:VAL:HG22	41:UJ:177:ASP:HB2	1.95	0.48
41:UL:304:ASP:HB3	41:UL:307:HIS:ND1	2.29	0.48
41:VD:142:GLY:N	43:VD:501:GDP:O1B	2.40	0.48
42:VE:91:GLN:HG3	42:VE:121:ARG:HH21	1.78	0.48
41:VF:322:SER:HA	42:VG:223:THR:HG22	1.95	0.48
41:VH:318:ARG:HD3	41:VH:358:PRO:HG3	1.95	0.48
41:VJ:346:PRO:HG3	42:VK:397:LEU:HD23	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:WF:271:ALA:HB2	41:WF:293:MET:HG3	1.96	0.48
42:WI:142:GLY:HA3	42:WI:183:GLU:HG2	1.95	0.48
41:WL:358:PRO:HB2	41:WL:361:LEU:HD21	1.94	0.48
42:WM:69:ASP:OD2	42:WM:70:LEU:N	2.46	0.48
11:2J:205:ARG:NH1	42:VC:281:ALA:O	2.46	0.48
11:2K:323:GLN:HE21	42:VK:366:GLY:H	1.59	0.48
12:2Q:447:TRP:HH2	42:WM:364:PRO:HB3	1.78	0.48
14:2W:90:ARG:HH22	42:OA:291:ILE:CG1	2.27	0.48
14:2X:169:THR:HA	42:OG:370:LYS:NZ	2.29	0.48
19:3J:20:LEU:HD13	30:5A:323:PHE:HD1	1.78	0.48
19:3J:472:VAL:HG11	19:3J:498:VAL:HA	1.96	0.48
19:3K:186:CYS:HB3	19:3K:190:THR:HB	1.95	0.48
19:3L:245:PHE:HB2	19:3L:264:ILE:HB	1.95	0.48
20:3O:62:LYS:HB3	42:AE:42:ILE:HD12	1.94	0.48
20:3O:489:LYS:NZ	20:3O:500:ASN:O	2.35	0.48
20:3P:64:VAL:CG1	42:AI:42:ILE:HA	2.44	0.48
20:3P:439:VAL:HG23	20:3P:452:PHE:HB3	1.96	0.48
26:4L:77:ILE:HA	26:4L:80:LEU:HD13	1.94	0.48
29:4Y:68:PHE:HB2	42:GG:364:PRO:HB2	1.96	0.48
32:5M:40:GLU:HG2	32:5M:43:ARG:HH21	1.79	0.48
33:5T:168:ALA:HA	33:5T:171:ARG:HD2	1.96	0.48
33:5V:110:LEU:HB2	33:5V:144:ILE:HD13	1.96	0.48
41:AB:189:VAL:HG11	41:AB:415:MET:HB2	1.96	0.48
41:AF:49:VAL:HG11	41:AF:241:ARG:HG2	1.96	0.48
42:AG:238:ILE:HG23	42:AG:255:PHE:HE2	1.78	0.48
42:AG:336:LYS:O	42:AG:339:ARG:NH2	2.46	0.48
42:BC:167:LEU:HD12	42:BC:202:PHE:HE2	1.78	0.48
41:BD:271:ALA:HB1	41:BD:289:LEU:HD12	1.96	0.48
41:BJ:200:TYR:HD2	41:BJ:268:PRO:HG3	1.79	0.48
42:CK:154:MET:HA	42:CK:154:MET:HE2	1.95	0.48
41:CL:139:LEU:O	41:CL:145:SER:OG	2.32	0.48
41:DD:135:LEU:HD11	41:DD:137:HIS:HB3	1.96	0.48
41:DH:21:TRP:CZ2	41:DH:63:ALA:HB2	2.49	0.48
41:DH:103:LYS:HD3	41:DH:108:GLU:HB3	1.95	0.48
41:DH:105:HIS:HA	41:DH:150:LEU:HG	1.96	0.48
41:DH:229:VAL:CB	41:DH:300:MET:HG3	2.43	0.48
41:DJ:181:GLU:O	41:DJ:182:PRO:C	2.51	0.48
41:DJ:345:ILE:HG12	41:DJ:347:ASN:O	2.14	0.48
42:DM:88:HIS:HB3	42:DM:91:GLN:HB2	1.95	0.48
42:DM:312:TYR:HE1	42:DM:341:ILE:HG23	1.78	0.48
41:ED:109:GLY:O	41:ED:112:LEU:N	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:ED:374:ILE:O	41:ED:375:GLN:C	2.52	0.48
42:EE:105:ARG:HA	42:EE:109:THR:OG1	2.13	0.48
42:EE:110:ILE:O	42:EE:111:GLY:C	2.50	0.48
42:EE:368:LEU:HD23	42:EE:368:LEU:HA	1.67	0.48
41:EF:186:THR:HG21	41:EF:385:PHE:HB2	1.94	0.48
42:EG:131:GLY:O	42:EG:132:LEU:C	2.52	0.48
42:EG:254:GLU:O	42:EG:255:PHE:C	2.51	0.48
41:EH:203:ASP:N	41:EH:300:MET:O	2.47	0.48
41:EL:36:TYR:CZ	41:EL:44:LEU:HB2	2.48	0.48
41:EL:422:TYR:CG	41:EL:423:GLN:N	2.81	0.48
42:FE:99:ALA:HA	42:FE:105:ARG:HG2	1.94	0.48
42:FI:175:PRO:HB2	42:FI:390:ARG:HH21	1.79	0.48
42:FI:273:ALA:HB2	42:FI:295:CYS:HB3	1.96	0.48
42:GC:203:MET:HB3	42:GC:303:VAL:HG21	1.94	0.48
41:GF:152:ILE:HA	41:GF:155:ILE:HG22	1.96	0.48
41:GH:344:TRP:HH2	41:GH:425:TYR:HB3	1.78	0.48
41:GJ:12:CYS:HB3	41:GJ:138:SER:HB2	1.96	0.48
41:GJ:271:ALA:HB3	41:GJ:272:PRO:CD	2.43	0.48
42:GK:417:GLU:HA	42:GK:420:GLU:HB3	1.95	0.48
41:GL:253:LEU:O	41:GL:257:MET:HG2	2.14	0.48
41:GL:259:PRO:HG3	41:GL:311:LEU:HD21	1.95	0.48
42:GM:425:MET:HA	42:GM:428:LEU:HG	1.96	0.48
42:HE:176:GLN:H	42:HE:304:LYS:HZ1	1.60	0.48
41:HL:250:LEU:HA	41:HL:253:LEU:HG	1.96	0.48
41:HL:309:ARG:H	41:HL:372:THR:HG22	1.79	0.48
42:IG:109:THR:HG23	42:IG:110:ILE:HG12	1.96	0.48
42:IG:414:GLU:N	42:IG:414:GLU:OE2	2.47	0.48
41:IJ:60:VAL:HG21	41:IJ:86:ARG:HB3	1.96	0.48
41:IJ:105:HIS:CE1	41:IJ:191:GLN:OE1	2.65	0.48
42:IK:119:LEU:HD21	42:IK:156:ARG:HB3	1.95	0.48
41:IN:282:ARG:NE	41:IN:282:ARG:HA	2.28	0.48
42:JE:90:GLU:OE2	42:JE:121:ARG:NH1	2.47	0.48
41:JF:128:ASP:OD1	41:JF:129:CYS:N	2.47	0.48
42:JI:254:GLU:N	42:JI:254:GLU:OE1	2.47	0.48
42:KC:36:MET:HG3	42:KC:61:HIS:CE1	2.48	0.48
41:KD:197:ASP:OD2	41:KD:197:ASP:N	2.46	0.48
42:LM:178:SER:HB2	42:LM:183:GLU:OE1	2.13	0.48
41:LN:284:LEU:HD21	41:MN:54:ALA:CA	2.41	0.48
41:LN:317:PHE:O	41:LN:354:CYS:N	2.45	0.48
42:ME:16:ILE:HD11	42:ME:171:ILE:HD11	1.96	0.48
42:MG:23:LEU:HD12	42:MG:26:LEU:HD11	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:MI:183:GLU:HG2	42:MI:184:PRO:HD3	1.96	0.48
41:MJ:17:GLY:HA2	41:MJ:20:PHE:HB3	1.95	0.48
41:MN:181:GLU:HG2	41:MN:182:PRO:CD	2.41	0.48
42:NE:288:VAL:HA	42:NE:291:ILE:HG22	1.95	0.48
42:NI:111:GLY:O	42:NI:113:GLU:N	2.46	0.48
42:NK:195:LEU:HD11	42:NK:428:LEU:HD11	1.96	0.48
41:NL:242:PHE:HB3	41:NL:356:ILE:HG13	1.95	0.48
41:OB:103:LYS:HD3	41:OB:108:GLU:HG2	1.95	0.48
41:OH:324:LYS:HB3	42:OI:222:PRO:HD2	1.95	0.48
41:OL:193:VAL:HA	41:OL:264:HIS:HE1	1.77	0.48
42:PA:174:ALA:HB3	42:PA:207:GLU:HG3	1.95	0.48
42:PA:212:ILE:HD13	42:PA:215:ARG:HD3	1.96	0.48
42:PC:238:ILE:HD11	42:PC:376:CYS:HB3	1.96	0.48
41:PF:211:CYS:SG	41:PF:211:CYS:O	2.72	0.48
41:PF:256:ASN:HB2	42:PG:181:VAL:HG22	1.96	0.48
41:PH:229:VAL:HA	41:PH:300:MET:HE1	1.96	0.48
41:PH:245:GLN:O	42:PI:11:GLN:NE2	2.47	0.48
41:PJ:359:ARG:HD3	41:PJ:359:ARG:HA	1.58	0.48
41:PJ:384:GLN:O	41:PJ:387:ALA:N	2.46	0.48
41:QD:376:GLU:HA	41:QD:379:LYS:HE3	1.95	0.48
41:QH:330:MET:HE2	41:QH:330:MET:HB2	1.77	0.48
42:QI:248:LEU:O	42:QI:355:ILE:N	2.47	0.48
42:QK:65:ALA:HB3	42:QK:87:PHE:HE1	1.78	0.48
42:QK:359:PRO:HB3	42:QK:372:GLN:HA	1.94	0.48
41:QL:180:VAL:O	41:QL:181:GLU:C	2.51	0.48
41:RD:49:VAL:HG11	41:RD:241:ARG:HD3	1.96	0.48
41:RD:403:MET:HB2	41:RD:407:GLU:OE1	2.13	0.48
41:RH:318:ARG:O	41:RH:364:SER:OG	2.31	0.48
42:SC:402:ARG:HG2	42:SC:405:VAL:HG21	1.96	0.48
42:SE:102:ASN:O	42:SE:103:TYR:C	2.52	0.48
42:SE:209:ILE:HA	42:SE:212:ILE:HD12	1.95	0.48
41:SF:256:ASN:HD21	42:SG:180:ALA:HB1	1.79	0.48
41:SJ:36:TYR:OH	41:SJ:40:SER:O	2.31	0.48
42:SK:10:GLY:HA3	42:SK:146:GLY:HA2	1.95	0.48
42:TC:98:ASP:O	42:TC:105:ARG:NH1	2.46	0.48
41:TD:330:MET:HE1	41:TD:349:VAL:HB	1.94	0.48
41:TJ:286:VAL:HA	41:TJ:289:LEU:HG	1.94	0.48
42:UC:121:ARG:HA	42:UC:121:ARG:HD3	1.71	0.48
42:UC:191:THR:O	42:UC:192:HIS:C	2.51	0.48
42:UC:243:ARG:HB2	42:UC:244:PHE:H	1.43	0.48
41:UH:211:CYS:HB3	41:UH:220:PRO:HG3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:UI:203:MET:HE1	42:UI:267:PHE:HB3	1.95	0.48
42:VC:27:GLU:OE2	42:VC:236:SER:OG	2.29	0.48
42:VG:33:ASP:OD2	42:VG:33:ASP:N	2.45	0.48
41:VJ:170:VAL:HG11	41:VJ:377:LEU:HD21	1.95	0.48
42:VM:133:GLN:HB3	42:VM:252:LEU:HB3	1.96	0.48
42:WG:141:PHE:O	42:WG:147:SER:HB2	2.13	0.48
42:WI:325:PRO:HB2	41:WJ:208:TYR:OH	2.14	0.48
41:WN:137:HIS:CE1	41:WN:168:SER:HB3	2.48	0.48
4:1L:28:LEU:HD13	41:IN:46:ARG:NH1	2.28	0.48
19:3L:97:LEU:HD22	19:3L:190:THR:HG23	1.96	0.48
22:3Z:240:TYR:OH	42:DI:79:ARG:O	2.27	0.48
24:4F:20:ILE:HG22	24:4F:24:LYS:HE3	1.96	0.48
27:4T:187:VAL:N	27:4T:188:PRO:HD2	2.29	0.48
28:4W:37:ARG:HG3	42:GM:37:PRO:HG2	1.95	0.48
30:5A:70:ARG:HG3	41:ML:55:THR:HG23	1.95	0.48
31:5D:80:LEU:HD12	31:5D:104:LEU:HD11	1.95	0.48
31:5F:64:ARG:NE	41:OF:36:TYR:O	2.40	0.48
32:5O:275:ARG:HE	32:5O:383:ILE:HD13	1.79	0.48
33:5Q:67:ARG:HA	33:5Q:70:THR:HG22	1.95	0.48
33:5V:252:ASN:ND2	34:6A:323:ASP:OD1	2.45	0.48
34:6A:478:ARG:HA	34:6A:478:ARG:CZ	2.43	0.48
34:6B:350:ARG:NH1	34:6B:353:GLU:OE2	2.47	0.48
34:6E:393:LEU:HD22	34:6E:393:LEU:HA	1.68	0.48
34:6H:472:LYS:HA	34:6H:472:LYS:HD3	1.62	0.48
35:6R:137:ARG:HD2	35:6R:447:GLN:HB2	1.96	0.48
37:7C:114:HIS:ND1	37:7C:115:VAL:HG23	2.29	0.48
41:BD:246:LEU:O	41:BD:352:ALA:HA	2.14	0.48
42:BI:363:VAL:O	42:BI:364:PRO:C	2.51	0.48
41:BJ:118:ASP:OD1	41:BJ:121:ARG:NH1	2.47	0.48
42:BK:208:ALA:HB2	42:BK:304:LYS:HD3	1.94	0.48
41:BL:61:PRO:HD3	41:BL:84:ILE:HG12	1.96	0.48
42:CE:395:PHE:HA	42:CE:398:MET:HB2	1.96	0.48
41:CF:262:ARG:HH22	41:CF:417:ASP:HB2	1.79	0.48
42:CG:431:ASP:O	42:CG:435:VAL:HG12	2.13	0.48
41:CH:317:PHE:HB2	41:CH:353:VAL:HG12	1.95	0.48
41:DD:24:ILE:HD12	41:DD:241:ARG:HH12	1.79	0.48
41:DD:25:SER:OG	41:DD:30:ILE:O	2.32	0.48
42:DE:202:PHE:CE2	42:DE:378:LEU:HD13	2.49	0.48
42:DG:3:GLU:HG3	42:DG:51:THR:HA	1.95	0.48
41:DH:30:ILE:HD11	41:DH:47:ILE:HD11	1.96	0.48
41:DH:51:TYR:HB3	41:DH:59:TYR:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DJ:327:ASP:HB3	42:DK:177:VAL:HG22	1.96	0.48
42:DK:274:PRO:HG3	42:DK:374:ALA:HA	1.96	0.48
42:DM:278:ALA:HA	42:DM:369:ALA:HB2	1.96	0.48
41:ED:3:GLU:C	41:ED:4:ILE:HG12	2.34	0.48
41:ED:290:THR:O	41:ED:291:GLN:C	2.51	0.48
42:EE:31:GLN:O	42:EE:32:PRO:C	2.52	0.48
42:EE:105:ARG:HA	42:EE:109:THR:CG2	2.43	0.48
42:EE:312:TYR:HA	42:EE:381:THR:HG23	1.95	0.48
41:EF:311:LEU:HD12	41:EF:342:VAL:HG11	1.96	0.48
42:EG:277:SER:O	42:EG:278:ALA:C	2.51	0.48
42:FC:384:ILE:O	42:FC:387:ALA:N	2.46	0.48
41:FD:169:VAL:HA	41:FD:202:ILE:O	2.13	0.48
42:FE:241:SER:HB2	42:FE:249:ASN:HB2	1.94	0.48
41:FF:113:VAL:HG11	41:FF:150:LEU:HG	1.95	0.48
41:FF:318:ARG:HE	41:FF:358:PRO:HD3	1.79	0.48
42:FM:28:HIS:CE1	42:FM:243:ARG:HD3	2.49	0.48
41:GD:108:GLU:O	41:GD:110:ALA:N	2.47	0.48
41:GD:145:SER:O	41:GD:146:GLY:C	2.50	0.48
42:GE:208:ALA:HB2	42:GE:304:LYS:HG2	1.94	0.48
42:GE:260:VAL:HG23	41:GF:397:TRP:HE1	1.79	0.48
42:GG:180:ALA:HB3	42:GG:183:GLU:HB3	1.94	0.48
41:GH:322:SER:OG	41:GH:325:GLU:OE1	2.32	0.48
41:GJ:43:GLN:HA	41:GJ:242:PHE:HE1	1.79	0.48
42:GM:276:ILE:HD12	42:GM:276:ILE:HA	1.66	0.48
42:GM:311:LYS:HE3	42:GM:344:VAL:HG12	1.94	0.48
41:HB:170:VAL:HG11	41:HB:377:LEU:HD21	1.96	0.48
42:HC:90:GLU:O	42:HC:91:GLN:C	2.52	0.48
41:HD:5:VAL:HG23	41:HD:130:LEU:HD11	1.94	0.48
42:HG:437:MET:O	42:HG:438:ASP:C	2.52	0.48
41:HJ:269:GLY:HA2	41:HJ:300:MET:HG3	1.96	0.48
42:HK:178:SER:OG	42:HK:183:GLU:OE1	2.25	0.48
41:IH:200:TYR:HD1	41:IH:266:PHE:HB2	1.79	0.48
42:II:89:PRO:HD2	41:JH:278:SER:HB3	1.96	0.48
42:IM:151:SER:HB3	42:IM:193:THR:HG21	1.95	0.48
41:JL:1:MET:HG2	42:JM:72:PRO:HG3	1.96	0.48
42:JM:80:THR:HA	42:JM:84:ARG:HD3	1.96	0.48
42:JM:174:ALA:HB1	42:JM:207:GLU:HB2	1.96	0.48
41:KD:117:LEU:HA	41:KD:120:VAL:HG22	1.96	0.48
41:KL:27:GLU:O	41:KL:43:GLN:NE2	2.47	0.48
41:KN:170:VAL:HG21	41:KN:377:LEU:HD21	1.95	0.48
41:LD:189:VAL:HA	41:LD:192:LEU:HD12	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:LH:103:LYS:HA	41:LH:107:THR:HG22	1.94	0.48
41:LJ:207:LEU:HD13	41:LJ:225:LEU:HB3	1.96	0.48
42:LM:326:LYS:NZ	41:LN:220:PRO:O	2.43	0.48
42:ME:70:LEU:HD12	42:ME:145:THR:HB	1.96	0.48
42:ME:258:ASN:HD22	42:ME:352:LYS:HD3	1.77	0.48
42:MI:75:ILE:HG22	42:MI:79:ARG:HE	1.78	0.48
42:MI:168:GLU:HB2	42:MI:201:ALA:HA	1.95	0.48
42:NA:109:THR:HA	42:NA:112:LYS:HE3	1.96	0.48
41:ND:19:LYS:HD3	41:ND:226:ASN:HB2	1.96	0.48
42:NE:201:ALA:HB3	42:NE:267:PHE:HA	1.95	0.48
42:NI:30:ILE:HG21	42:NI:61:HIS:HB2	1.96	0.48
42:NI:399:TYR:O	42:NI:400:ALA:C	2.52	0.48
41:OB:398:TYR:O	41:OB:399:THR:C	2.51	0.48
41:OD:134:GLN:HA	41:OD:165:ASN:O	2.14	0.48
41:OH:190:HIS:HA	41:OH:414:ASN:HD22	1.79	0.48
42:PA:297:GLU:HB3	42:PA:298:PRO:HD2	1.95	0.48
41:PB:116:VAL:HG11	41:PB:151:LEU:HD11	1.96	0.48
41:PB:155:ILE:HD13	41:PB:155:ILE:HA	1.74	0.48
41:PB:202:ILE:H	41:PB:202:ILE:HG13	1.38	0.48
41:PD:81:PHE:HB3	41:PD:84:ILE:HD11	1.95	0.48
42:PG:2:ARG:HD3	42:PG:133:GLN:HG3	1.95	0.48
41:PH:25:SER:HB2	41:PH:30:ILE:HB	1.96	0.48
41:PH:52:ASN:HB2	41:PH:60:VAL:O	2.13	0.48
41:PH:320:ARG:HD3	41:PH:320:ARG:HA	1.69	0.48
42:PI:256:GLN:C	42:PI:258:ASN:H	2.15	0.48
42:PI:324:VAL:O	42:PI:325:PRO:C	2.52	0.48
41:PJ:108:GLU:O	41:PJ:109:GLY:C	2.51	0.48
42:QC:142:GLY:HA2	42:QC:183:GLU:HG3	1.96	0.48
41:QD:274:THR:HB	41:QD:278:SER:HB2	1.96	0.48
41:QD:378:PHE:HA	41:QD:381:ILE:HG22	1.94	0.48
42:QE:104:ALA:O	42:QE:108:TYR:N	2.25	0.48
41:QH:144:GLY:HA2	41:QH:148:GLY:HA3	1.95	0.48
42:QI:132:LEU:O	42:QI:133:GLN:C	2.52	0.48
42:QI:240:ALA:O	42:QI:241:SER:C	2.52	0.48
41:QJ:60:VAL:HG11	41:QJ:86:ARG:HG3	1.94	0.48
42:QK:163:LYS:HA	42:QK:163:LYS:HD2	1.49	0.48
41:QL:280:GLN:HE21	41:QL:280:GLN:H	1.61	0.48
41:QL:325:GLU:O	41:QL:326:VAL:C	2.52	0.48
41:RF:55:THR:H	41:SF:283:ALA:HA	1.79	0.48
42:RG:109:THR:HA	42:RG:112:LYS:HD3	1.95	0.48
41:RH:358:PRO:HG3	41:RH:364:SER:HB3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:RI:3:GLU:HG2	42:RI:64:ARG:CZ	2.44	0.48
42:SC:16:ILE:HD13	42:SC:138:PHE:HE1	1.79	0.48
42:SI:35:GLN:HE21	42:SI:35:GLN:HB3	1.54	0.48
42:TC:291:ILE:HD11	42:TC:373:ARG:HG3	1.95	0.48
41:TD:310:TYR:HA	41:TD:371:SER:HA	1.95	0.48
42:TI:85:GLN:O	42:TI:86:LEU:C	2.52	0.48
41:TJ:163:ILE:HG21	41:TJ:250:LEU:HB3	1.95	0.48
42:TK:384:ILE:HG12	42:TK:432:TYR:CZ	2.49	0.48
42:TM:262:TYR:O	42:TM:264:ARG:N	2.39	0.48
42:UC:136:LEU:HA	42:UC:136:LEU:HD23	1.76	0.48
41:UD:27:GLU:OE1	41:UD:241:ARG:NH1	2.39	0.48
41:UH:358:PRO:HD2	41:UH:361:LEU:HB2	1.95	0.48
41:UJ:52:ASN:OD1	41:UJ:62:ARG:NH2	2.46	0.48
42:VC:209:ILE:HG23	42:VC:230:LEU:HD12	1.95	0.48
41:VF:105:HIS:CD2	41:VF:150:LEU:HB2	2.49	0.48
41:VF:270:PHE:O	41:VF:298:ASN:ND2	2.31	0.48
41:VH:49:VAL:HG11	41:VH:241:ARG:HB3	1.96	0.48
42:VK:377:MET:HE3	42:VK:377:MET:HB2	1.64	0.48
41:WF:350:LYS:HA	42:WG:179:THR:O	2.13	0.48
10:2H:162:LYS:NZ	42:WM:214:ARG:O	2.47	0.48
19:3L:421:ARG:HA	19:3L:441:SER:HA	1.95	0.48
20:3P:105:VAL:HG23	20:3P:113:GLN:HG3	1.95	0.48
20:3P:510:ASN:OD1	20:3P:511:ALA:N	2.43	0.48
24:4F:114:VAL:HG21	24:4G:444:ILE:HG12	1.96	0.48
25:4J:9:PHE:HD1	25:4J:60:LEU:HD12	1.79	0.48
25:4J:37:MET:HE1	25:4J:73:LEU:HD22	1.96	0.48
25:4J:77:ASP:OD1	25:4J:78:TYR:N	2.47	0.48
27:4R:161:ASN:HB2	27:4R:164:VAL:HG13	1.96	0.48
32:5N:119:ARG:O	32:5N:122:ARG:NE	2.46	0.48
33:5S:158:ALA:HB2	33:5S:243:ILE:HD11	1.95	0.48
34:6A:308:ILE:HG22	34:6A:312:GLN:HE21	1.78	0.48
34:6C:282:SER:O	34:6D:394:LYS:HB2	2.14	0.48
41:AD:236:VAL:HG22	41:AD:368:ILE:HD11	1.95	0.48
42:AE:395:PHE:HE2	42:AE:422:ARG:HG2	1.79	0.48
41:AH:134:GLN:HB2	41:AH:167:PHE:HE2	1.78	0.48
41:AJ:49:VAL:HG13	41:AJ:50:TYR:HD2	1.79	0.48
42:AK:258:ASN:CB	42:AK:352:LYS:HG3	2.42	0.48
42:AK:276:ILE:HG12	42:AK:286:LEU:HD21	1.95	0.48
42:CG:6:SER:O	42:CG:65:ALA:HB1	2.14	0.48
42:CG:42:ILE:HG12	42:CG:43:GLY:N	2.28	0.48
42:CG:180:ALA:HB3	42:CG:183:GLU:HG2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:CH:239:CYS:HB3	41:CH:247:ASN:HA	1.96	0.48
41:CJ:10:GLY:HA2	41:CJ:143:THR:HB	1.96	0.48
42:CK:62:VAL:CG1	42:DK:283:HIS:HA	2.42	0.48
41:CL:154:LYS:HA	41:CL:154:LYS:HD3	1.73	0.48
41:DF:161:ASP:OD2	41:DF:162:ARG:HD2	2.14	0.48
41:DH:248:ALA:HB2	41:DH:352:ALA:HB2	1.96	0.48
41:DJ:60:VAL:HG21	41:EJ:280:GLN:HE22	1.78	0.48
42:DK:172:TYR:H	42:DK:204:VAL:CG1	2.27	0.48
41:DL:27:GLU:HG2	41:DL:242:PHE:CZ	2.49	0.48
41:DL:193:VAL:HA	41:DL:264:HIS:CE1	2.48	0.48
42:EG:436:GLY:O	42:EG:437:MET:C	2.52	0.48
42:EK:1:MET:O	42:EK:2:ARG:C	2.51	0.48
42:EK:3:GLU:OE1	42:EK:130:THR:HG23	2.14	0.48
41:EL:317:PHE:N	41:EL:352:ALA:O	2.47	0.48
42:EM:6:SER:O	42:EM:65:ALA:HA	2.13	0.48
42:EM:169:PHE:HD1	42:EM:202:PHE:HB2	1.79	0.48
42:FC:199:ASP:HB2	42:FC:256:GLN:HG3	1.95	0.48
41:FD:213:ARG:HH21	41:FD:297:LYS:HD2	1.78	0.48
41:FD:252:LYS:HB2	42:FE:100:ALA:HA	1.96	0.48
41:FF:324:LYS:HD2	42:FG:210:TYR:CD1	2.48	0.48
42:FG:170:SER:OG	42:FG:202:PHE:O	2.30	0.48
42:FI:107:HIS:CD2	42:FI:152:LEU:HB3	2.48	0.48
41:FJ:5:VAL:HB	41:FJ:133:PHE:CE1	2.49	0.48
42:FK:243:ARG:H	42:FK:243:ARG:HG2	1.51	0.48
42:FK:276:ILE:HG13	42:FK:286:LEU:HD21	1.96	0.48
41:FL:61:PRO:HD3	41:FL:84:ILE:CG1	2.44	0.48
41:FL:357:PRO:HB2	41:FL:358:PRO:HD2	1.96	0.48
42:FM:196:GLU:HG3	42:FM:197:HIS:ND1	2.29	0.48
42:GM:221:ARG:N	42:GM:222:PRO:HD3	2.29	0.48
41:HB:5:VAL:O	41:HB:134:GLN:N	2.46	0.48
42:HG:15:GLN:HA	42:HG:18:ASN:ND2	2.26	0.48
41:HJ:107:THR:O	41:HJ:108:GLU:C	2.52	0.48
42:IE:164:LYS:HE2	42:IE:164:LYS:HB3	1.50	0.48
41:IH:67:ASP:OD1	41:IH:68:LEU:N	2.46	0.48
41:IN:209:ASP:O	41:IN:210:ILE:C	2.52	0.48
42:JI:141:PHE:HB2	42:JI:173:PRO:HD3	1.95	0.48
42:JK:229:ARG:HH11	42:JK:229:ARG:HA	1.78	0.48
42:KG:414:GLU:HG2	42:KG:416:GLY:H	1.78	0.48
41:KL:39:ASP:OD1	41:KL:40:SER:N	2.46	0.48
42:LC:264:ARG:HG3	42:LC:428:LEU:HD13	1.96	0.48
41:LJ:128:ASP:N	41:LJ:128:ASP:OD2	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:LJ:156:ARG:HD2	41:LJ:156:ARG:HA	1.71	0.48
41:LL:204:ASN:OD1	43:LL:501:GDP:O2'	2.31	0.48
42:MG:348:PRO:HB2	41:MH:384:GLN:HG2	1.96	0.48
41:MJ:131:GLN:HA	41:MJ:162:ARG:HH21	1.78	0.48
42:MM:171:ILE:HA	42:MM:204:VAL:HB	1.95	0.48
42:MM:231:ILE:HA	42:MM:234:ILE:HD12	1.96	0.48
42:NC:154:MET:HG3	42:NC:194:THR:HG23	1.96	0.48
41:ND:273:LEU:HD12	41:ND:273:LEU:HA	1.74	0.48
41:NF:122:LYS:O	41:NF:125:GLU:HG3	2.13	0.48
41:NF:284:LEU:HB2	41:NF:363:MET:HE2	1.96	0.48
42:OE:204:VAL:HG13	42:OE:302:MET:HB3	1.96	0.48
42:OG:396:ASP:HB3	42:OG:422:ARG:HH12	1.79	0.48
41:OH:385:PHE:CZ	41:OH:408:PHE:HB3	2.47	0.48
42:PA:221:ARG:HD2	42:PA:221:ARG:HA	1.39	0.48
41:PB:256:ASN:ND2	42:PC:180:ALA:HB1	2.25	0.48
42:PE:288:VAL:HG11	42:PE:323:VAL:HG13	1.96	0.48
42:PG:195:LEU:HA	42:PG:266:HIS:CE1	2.42	0.48
41:PH:237:THR:O	41:PH:238:THR:C	2.52	0.48
42:PK:260:VAL:CG2	41:PL:397:TRP:HE1	2.27	0.48
41:PL:100:ASN:O	41:PL:101:TRP:C	2.51	0.48
41:PL:377:LEU:HA	41:PL:380:ARG:CZ	2.44	0.48
41:QB:68:LEU:HG	41:QB:143:THR:HG23	1.94	0.48
42:QG:141:PHE:HB2	42:QG:172:TYR:HA	1.96	0.48
42:QG:151:SER:HB3	42:QG:193:THR:HG21	1.95	0.48
42:QG:359:PRO:HB3	42:QG:372:GLN:HA	1.94	0.48
42:QK:153:LEU:O	42:QK:154:MET:C	2.52	0.48
41:QL:72:THR:O	41:QL:73:MET:C	2.52	0.48
41:QL:84:ILE:HG13	41:QL:85:PHE:N	2.29	0.48
41:QL:190:HIS:CG	41:QL:411:ALA:HA	2.49	0.48
42:RI:301:GLN:N	42:RI:301:GLN:OE1	2.46	0.48
41:RL:119:VAL:HA	41:RL:122:LYS:HB2	1.96	0.48
41:RL:407:GLU:HA	41:RL:410:GLU:HB3	1.94	0.48
42:SC:248:LEU:HD23	42:SC:355:ILE:HD12	1.95	0.48
42:SE:300:ASN:O	42:SE:301:GLN:C	2.51	0.48
41:SF:284:LEU:HB3	41:SF:362:LYS:HD2	1.96	0.48
42:SI:139:HIS:HB2	42:SI:146:GLY:O	2.14	0.48
42:TG:339:ARG:HH12	42:TG:342:GLN:HG2	1.78	0.48
41:TH:322:SER:HA	42:TI:223:THR:HG22	1.96	0.48
42:TI:49:PHE:HD2	42:TI:53:PHE:HB2	1.78	0.48
42:TI:289:ALA:O	42:TI:291:ILE:N	2.47	0.48
41:TJ:214:THR:O	41:TJ:275:SER:HB2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:TJ:311:LEU:HD12	41:TJ:342:VAL:HG21	1.95	0.48
42:TK:262:TYR:HB3	42:TK:263:PRO:HD2	1.95	0.48
42:UM:132:LEU:HD22	42:UM:164:LYS:HE3	1.96	0.48
42:VC:296:PHE:CD2	42:VC:335:ILE:HG12	2.49	0.48
42:VM:3:GLU:HG3	42:VM:129:CYS:HB2	1.95	0.48
41:WF:236:VAL:HG13	41:WF:250:LEU:HD21	1.96	0.48
5:1O:41:ILE:HD11	41:KH:392:LYS:HE2	1.96	0.47
5:1O:42:ILE:HG12	41:KH:390:ARG:HB2	1.96	0.47
20:3P:229:PHE:CE2	41:DJ:279:GLN:HG3	2.48	0.47
21:3S:132:ARG:CD	42:LC:90:GLU:HA	2.43	0.47
21:3S:138:ASP:N	21:3S:138:ASP:OD1	2.47	0.47
21:3U:210:VAL:HG12	21:3U:237:MET:HE2	1.96	0.47
23:4D:36:GLN:H	41:TJ:58:LYS:HE3	1.79	0.47
23:4D:55:TRP:CH2	41:UJ:41:ASP:HB2	2.49	0.47
25:4J:113:ILE:HG23	25:4J:118:PHE:HB2	1.96	0.47
31:5G:115:ARG:HB2	31:5G:122:VAL:HB	1.95	0.47
33:5R:8:PRO:HB2	35:6R:327:ARG:HH21	1.79	0.47
33:5V:267:LYS:HG3	34:6A:155:PHE:CZ	2.49	0.47
34:6A:156:TRP:CE3	34:6A:156:TRP:HA	2.49	0.47
34:6C:361:ILE:HD12	34:6C:462:LYS:HG2	1.96	0.47
34:6E:391:ALA:O	34:6E:394:LYS:N	2.47	0.47
35:6T:412:LEU:HA	35:6U:63:ARG:HH22	1.78	0.47
37:7C:186:ARG:HH22	42:SI:115:ILE:HG22	1.79	0.47
42:AI:167:LEU:HG	42:AI:255:PHE:CZ	2.49	0.47
41:AJ:288:GLU:HA	41:AJ:291:GLN:HG2	1.95	0.47
42:AK:385:ALA:HA	42:AK:388:TRP:CD1	2.49	0.47
41:BD:36:TYR:HB2	41:BD:59:TYR:HE1	1.78	0.47
42:BI:319:TYR:CG	42:BI:375:VAL:HG22	2.49	0.47
41:BJ:31:ASP:OD1	41:BJ:35:THR:N	2.47	0.47
41:BJ:314:ALA:HB3	41:BJ:368:ILE:HG23	1.94	0.47
42:CE:153:LEU:HG	42:CE:157:LEU:HD23	1.96	0.47
42:CG:29:GLY:O	42:CG:37:PRO:HD3	2.13	0.47
41:CH:30:ILE:HG13	41:CH:51:TYR:CE2	2.49	0.47
41:CH:206:ALA:O	41:CH:210:ILE:HG12	2.14	0.47
41:CJ:265:PHE:HB3	41:CJ:374:ILE:HD13	1.96	0.47
41:CL:347:ASN:HB3	42:CM:181:VAL:HA	1.96	0.47
42:CM:182:VAL:HG22	42:CM:185:TYR:HB2	1.96	0.47
41:DB:197:ASP:OD1	41:DB:198:GLU:N	2.43	0.47
41:DB:256:ASN:OD1	42:DC:181:VAL:HG22	2.14	0.47
41:DB:263:LEU:O	41:DB:370:ASN:ND2	2.47	0.47
42:DC:227:LEU:HD13	45:DC:501:GTP:HN21	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DE:4:CYS:SG	42:DE:136:LEU:HD13	2.53	0.47
41:DH:99:ASN:O	41:DH:180:VAL:HG11	2.14	0.47
42:DM:119:LEU:HD11	42:DM:156:ARG:HD2	1.96	0.47
41:ED:411:ALA:C	41:ED:413:SER:H	2.18	0.47
41:EF:289:LEU:HD11	41:EF:363:MET:HB3	1.95	0.47
42:EG:16:ILE:HD11	42:EG:171:ILE:HD11	1.96	0.47
42:EG:122:ILE:HG13	42:EG:135:PHE:HE2	1.77	0.47
42:EG:184:PRO:CB	42:EG:394:LYS:HB3	2.42	0.47
42:EI:271:THR:HG21	42:EI:301:GLN:HA	1.96	0.47
42:EM:63:PRO:HG3	42:EM:87:PHE:CD1	2.48	0.47
42:FC:99:ALA:O	42:FC:100:ALA:C	2.52	0.47
41:FD:97:ALA:O	41:FD:99:ASN:N	2.47	0.47
41:FJ:324:LYS:HG3	42:FK:210:TYR:CZ	2.48	0.47
42:FK:126:ALA:HA	42:FK:132:LEU:HD21	1.96	0.47
41:GD:374:ILE:HD12	41:GD:374:ILE:HA	1.79	0.47
42:GI:244:PHE:CG	42:GI:358:GLN:HG2	2.48	0.47
42:HC:164:LYS:HA	42:HC:164:LYS:HD3	1.63	0.47
41:HF:32:PRO:HG3	41:HF:81:PHE:CZ	2.49	0.47
41:HF:172:SER:HB3	41:HF:205:GLU:HG3	1.95	0.47
41:HL:324:LYS:HB2	42:HM:222:PRO:HD2	1.95	0.47
42:HM:257:THR:O	42:HM:258:ASN:C	2.52	0.47
42:IK:9:VAL:HG23	42:IK:68:VAL:HG13	1.96	0.47
42:IM:388:TRP:O	42:IM:392:ASP:N	2.41	0.47
42:JE:180:ALA:HB3	42:JE:183:GLU:HB2	1.95	0.47
41:JH:226:ASN:HA	41:JH:229:VAL:HG12	1.96	0.47
41:JJ:91:VAL:HG11	41:JJ:116:VAL:HG22	1.96	0.47
41:JJ:153:SER:HA	41:JJ:195:ASN:HD22	1.78	0.47
42:JK:21:TRP:CZ2	42:JK:65:ALA:HB2	2.49	0.47
41:JL:345:ILE:HD13	42:JM:404:PHE:HE2	1.79	0.47
42:KI:147:SER:OG	42:KI:186:ASN:O	2.31	0.47
42:KK:9:VAL:HG11	42:KK:153:LEU:HD11	1.96	0.47
42:KM:3:GLU:H	42:KM:3:GLU:HG2	1.21	0.47
42:KM:239:THR:O	42:KM:243:ARG:HG3	2.14	0.47
41:LN:67:ASP:OD1	41:LN:68:LEU:N	2.47	0.47
41:MF:19:LYS:HB3	41:MF:19:LYS:HE3	1.60	0.47
41:MH:382:SER:OG	41:MH:412:GLU:OE2	2.26	0.47
41:MN:393:ALA:O	41:MN:395:LEU:N	2.47	0.47
42:NC:118:VAL:HG21	42:NC:153:LEU:HD21	1.96	0.47
42:NI:184:PRO:HA	42:NI:391:LEU:HD12	1.96	0.47
41:NJ:105:HIS:CD2	41:NJ:150:LEU:HB2	2.49	0.47
42:NK:69:ASP:HB3	42:NK:70:LEU:H	1.54	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:OB:346:PRO:HD2	42:OC:398:MET:HE2	1.95	0.47
41:OD:141:GLY:O	41:OD:184:ASN:ND2	2.43	0.47
41:OL:268:PRO:HG2	41:OL:300:MET:HB2	1.96	0.47
41:PB:389:PHE:O	41:PB:390:ARG:C	2.51	0.47
41:PF:3:GLU:O	41:PF:130:LEU:HA	2.14	0.47
41:PH:173:PRO:O	41:PH:175:VAL:N	2.46	0.47
41:PJ:88:ASP:C	41:PJ:90:PHE:H	2.17	0.47
41:PJ:237:THR:O	41:PJ:238:THR:C	2.52	0.47
41:PJ:295:ASP:O	41:PJ:296:ALA:C	2.52	0.47
42:PK:399:TYR:O	42:PK:400:ALA:C	2.52	0.47
42:QG:142:GLY:HA3	42:QG:183:GLU:HG3	1.96	0.47
41:QH:113:VAL:HG22	41:QH:117:LEU:HD22	1.96	0.47
41:QH:393:ALA:C	41:QH:395:LEU:H	2.18	0.47
42:QI:167:LEU:HD22	42:QI:252:LEU:HD22	1.96	0.47
42:QK:47:ASP:O	42:QK:49:PHE:N	2.44	0.47
41:RF:297:LYS:HB3	41:RF:297:LYS:HE2	1.50	0.47
42:RI:202:PHE:HZ	42:RI:378:LEU:HB3	1.79	0.47
41:RL:386:THR:O	41:RL:390:ARG:NE	2.41	0.47
41:SD:273:LEU:H	41:SD:292:GLN:HE22	1.62	0.47
42:SG:60:LYS:NZ	42:SG:62:VAL:HB	2.28	0.47
42:SK:392:ASP:CG	42:SK:422:ARG:HH22	2.17	0.47
42:TC:17:GLY:HA2	42:TC:20:CYS:HB3	1.95	0.47
41:TH:117:LEU:HA	41:TH:120:VAL:HG22	1.95	0.47
41:TH:248:ALA:HA	41:TH:252:LYS:CD	2.39	0.47
41:TH:313:VAL:HB	41:TH:349:VAL:HG22	1.95	0.47
42:TI:103:TYR:O	42:TI:104:ALA:C	2.52	0.47
42:TI:261:PRO:HB3	42:TI:346:TRP:CH2	2.48	0.47
42:TM:3:GLU:HB3	42:TM:132:LEU:HA	1.95	0.47
42:TM:276:ILE:HB	42:TM:286:LEU:HD21	1.96	0.47
42:UC:240:ALA:HA	42:UC:243:ARG:HH21	1.79	0.47
42:UC:291:ILE:HG23	42:UC:375:VAL:HG23	1.96	0.47
42:UG:326:LYS:HZ1	41:UH:219:THR:HA	1.79	0.47
42:UM:8:HIS:HD2	42:UM:17:GLY:HA3	1.79	0.47
42:VC:339:ARG:HA	42:VC:339:ARG:NH1	2.29	0.47
41:VF:334:GLN:NE2	41:VF:347:ASN:OD1	2.48	0.47
42:VI:140:SER:HA	42:VI:171:ILE:H	1.77	0.47
42:VM:320:ARG:HD3	42:VM:360:PRO:HB3	1.96	0.47
42:WI:248:LEU:O	42:WI:354:GLY:HA2	2.14	0.47
41:WN:45:GLU:HG2	41:WN:46:ARG:HG2	1.96	0.47
41:WN:317:PHE:N	41:WN:352:ALA:O	2.46	0.47
12:ZO:206:GLN:HE22	41:WD:74:ASP:HB3	1.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:2T:397:ARG:NH2	42:GK:371:VAL:HG12	2.29	0.47
16:3C:114:TYR:H	42:VI:215:ARG:NH2	2.10	0.47
21:3T:116:VAL:HG23	42:LG:409:VAL:HG11	1.96	0.47
23:4D:50:ARG:HH22	41:UJ:320:ARG:HD2	1.80	0.47
27:4Q:196:ILE:HA	27:4Q:199:ILE:HD12	1.96	0.47
30:5A:85:ARG:HA	30:5A:88:LYS:HG2	1.95	0.47
30:5A:195:ALA:HB1	41:LH:276:ARG:HD3	1.96	0.47
31:5G:46:SER:HB3	31:5G:106:SER:HA	1.96	0.47
32:5M:70:VAL:HG13	32:5M:178:LYS:HD2	1.95	0.47
32:5N:11:PHE:HB3	32:5N:15:GLU:HB2	1.96	0.47
33:5V:308:LEU:HD23	33:5V:312:LYS:HE2	1.96	0.47
33:5W:107:ASN:OD1	33:5W:108:LEU:N	2.47	0.47
33:5X:290:ILE:HG12	33:5X:366:LEU:HB3	1.95	0.47
34:6A:97:ASP:HB3	34:6A:101:ARG:HH12	1.78	0.47
34:6M:177:ILE:HG21	34:6M:322:ARG:HG3	1.96	0.47
35:6U:424:PHE:HD2	35:6U:428:HIS:ND1	2.11	0.47
41:AB:189:VAL:HA	41:AB:192:LEU:HD22	1.94	0.47
42:AG:254:GLU:HB3	42:AG:352:LYS:HE2	1.95	0.47
42:BE:73:THR:HA	42:BE:76:ASP:HB2	1.96	0.47
41:BH:103:LYS:NZ	41:BH:401:GLU:OE2	2.47	0.47
42:CC:49:PHE:CE2	42:CC:55:GLU:HB2	2.48	0.47
41:CD:84:ILE:H	41:CD:84:ILE:HG13	1.46	0.47
41:CD:255:VAL:HG21	42:CE:100:ALA:O	2.14	0.47
41:CD:324:LYS:HB3	42:CE:221:ARG:HA	1.95	0.47
41:CF:102:ALA:HB2	41:CF:403:MET:HE3	1.96	0.47
42:CG:144:GLY:N	45:CG:501:GTP:O2B	2.27	0.47
41:CH:77:ARG:HD3	41:CH:90:PHE:CE2	2.48	0.47
41:CH:346:PRO:HB3	42:CI:394:LYS:HG2	1.95	0.47
41:CJ:31:ASP:O	41:CJ:33:THR:N	2.43	0.47
41:DB:132:GLY:HA3	41:DB:163:ILE:HG22	1.96	0.47
42:DC:17:GLY:O	42:DC:83:TYR:OH	2.31	0.47
41:DH:147:MET:SD	41:DH:147:MET:N	2.87	0.47
42:DI:234:ILE:HD11	42:DI:378:LEU:HD11	1.96	0.47
41:DJ:173:PRO:O	41:DJ:174:LYS:C	2.53	0.47
41:DJ:248:ALA:HB3	41:DJ:352:ALA:CB	2.44	0.47
41:DL:303:CYS:HB3	41:DL:373:ALA:HB1	1.95	0.47
41:EF:7:LEU:O	41:EF:135:LEU:HA	2.13	0.47
42:EI:161:TYR:CD2	42:EI:164:LYS:HB2	2.48	0.47
42:EK:58:ALA:O	42:EK:59:GLY:C	2.52	0.47
41:EL:238:THR:HG1	41:EL:354:CYS:HG	1.61	0.47
41:FD:20:PHE:CE2	41:FD:24:ILE:HD11	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:FL:271:ALA:HB3	41:FL:272:PRO:CD	2.44	0.47
42:FM:425:MET:N	42:FM:425:MET:SD	2.87	0.47
42:GC:427:ALA:O	42:GC:431:ASP:N	2.46	0.47
42:GG:105:ARG:HH21	42:GG:110:ILE:HG21	1.78	0.47
41:GJ:310:TYR:HB2	41:GJ:341:PHE:HD1	1.78	0.47
42:GK:332:ILE:HA	42:GK:335:ILE:HG22	1.95	0.47
41:GL:4:ILE:HG13	41:GL:250:LEU:HD12	1.96	0.47
41:GL:8:GLN:HE21	41:GL:65:LEU:HG	1.79	0.47
42:GM:280:LYS:O	42:GM:282:TYR:N	2.47	0.47
42:HC:31:GLN:O	42:HC:32:PRO:C	2.53	0.47
42:HC:273:ALA:O	42:HC:275:VAL:N	2.42	0.47
41:HD:142:GLY:N	43:HD:501:GDP:O2B	2.42	0.47
41:HD:401:GLU:H	41:HD:401:GLU:HG2	1.36	0.47
42:HE:174:ALA:HB2	42:HE:205:ASP:HB2	1.95	0.47
42:HE:178:SER:OG	42:HE:183:GLU:OE1	2.29	0.47
41:HF:320:ARG:NH1	41:HF:355:ASP:OD1	2.46	0.47
42:HG:88:HIS:NE2	42:IG:284:GLU:OE2	2.47	0.47
42:HI:100:ALA:O	42:HI:101:ASN:C	2.52	0.47
42:HI:136:LEU:HB3	42:HI:169:PHE:HE2	1.77	0.47
42:IC:104:ALA:HB2	42:IC:413:MET:HB2	1.96	0.47
42:IC:242:LEU:HD11	42:IC:252:LEU:HB2	1.96	0.47
41:ID:236:VAL:HG23	41:ID:237:THR:HG23	1.96	0.47
42:IE:277:SER:O	42:IE:278:ALA:C	2.52	0.47
41:IL:101:TRP:O	41:IL:105:HIS:N	2.42	0.47
42:IM:194:THR:O	42:IM:198:SER:OG	2.27	0.47
42:JI:306:ASP:OD1	42:JI:308:ARG:HG2	2.13	0.47
41:JJ:240:LEU:HD13	41:JJ:249:ASP:HB2	1.96	0.47
41:JJ:296:ALA:HB3	41:JJ:306:ARG:NH1	2.28	0.47
42:JK:287:SER:O	42:JK:288:VAL:C	2.53	0.47
42:JK:403:ALA:O	42:JK:405:VAL:HG23	2.13	0.47
41:KF:252:LYS:HB2	42:KG:100:ALA:HA	1.95	0.47
42:KM:104:ALA:HB1	42:KM:411:GLU:HB2	1.95	0.47
42:KM:171:ILE:HD13	42:KM:204:VAL:HG13	1.95	0.47
41:LD:423:GLN:HA	41:LD:426:GLN:HG3	1.95	0.47
42:LM:392:ASP:OD2	42:LM:422:ARG:NE	2.47	0.47
41:LN:5:VAL:HG23	41:LN:130:LEU:HD11	1.95	0.47
41:MF:183:TYR:O	41:MF:184:ASN:C	2.52	0.47
41:MH:11:GLN:HA	41:MH:72:THR:HG21	1.96	0.47
41:MN:174:LYS:H	41:MN:174:LYS:HG2	1.37	0.47
42:NC:60:LYS:O	42:NC:62:VAL:N	2.47	0.47
42:NC:228:ASN:OD1	45:NC:501:GTP:N1	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:ND:261:PRO:HD3	42:NE:406:HIS:CD2	2.49	0.47
41:NH:154:LYS:HE2	41:NH:154:LYS:HB3	1.58	0.47
41:NJ:311:LEU:HB2	41:NJ:370:ASN:OD1	2.15	0.47
42:NK:84:ARG:O	42:NK:86:LEU:N	2.46	0.47
41:NL:306:ARG:HG3	41:NL:340:TYR:OH	2.14	0.47
42:OA:28:HIS:HD1	42:OA:53:PHE:HE2	1.62	0.47
41:PB:340:TYR:O	41:PB:341:PHE:HB2	2.14	0.47
42:PC:152:LEU:HA	42:PC:152:LEU:HD23	1.72	0.47
42:PG:296:PHE:CD1	42:PG:341:ILE:HG21	2.48	0.47
41:PH:389:PHE:O	41:PH:390:ARG:C	2.51	0.47
42:PI:148:GLY:C	42:PI:150:THR:N	2.67	0.47
42:PI:213:CYS:HA	42:PI:217:LEU:HD12	1.96	0.47
42:PI:306:ASP:O	42:PI:308:ARG:N	2.47	0.47
42:PI:422:ARG:O	42:PI:423:GLU:C	2.51	0.47
41:PJ:216:LYS:HE2	41:PJ:216:LYS:HB2	1.47	0.47
41:PJ:218:THR:O	41:PJ:220:PRO:HD3	2.13	0.47
41:PJ:330:MET:HE2	41:PJ:330:MET:HB2	1.76	0.47
41:PL:280:GLN:HG2	41:PL:281:TYR:N	2.29	0.47
42:QC:104:ALA:HA	42:QC:108:TYR:CE1	2.50	0.47
42:QE:139:HIS:NE2	42:QE:168:GLU:OE2	2.47	0.47
42:QG:30:ILE:HD13	42:QG:61:HIS:HB2	1.97	0.47
41:QH:210:ILE:HA	41:QH:213:ARG:CD	2.44	0.47
42:QI:7:VAL:HB	42:QI:137:ILE:HG23	1.95	0.47
42:QI:173:PRO:HG3	42:QI:187:SER:CB	2.44	0.47
42:QK:30:ILE:HD11	42:QK:86:LEU:HD11	1.96	0.47
42:QK:130:THR:OG1	42:QK:131:GLY:N	2.44	0.47
41:QL:119:VAL:O	41:QL:120:VAL:C	2.51	0.47
41:RF:221:THR:OG1	41:RF:222:TYR:N	2.47	0.47
41:RF:335:ASN:O	41:RF:336:LYS:C	2.52	0.47
42:RG:384:ILE:HG23	42:RG:388:TRP:HZ3	1.79	0.47
41:RH:8:GLN:HE22	41:RH:17:GLY:N	2.12	0.47
42:SC:277:SER:OG	42:SC:280:LYS:NZ	2.48	0.47
42:SC:318:LEU:HB2	42:SC:376:CYS:HB3	1.96	0.47
41:SD:236:VAL:HG22	41:SD:368:ILE:HD11	1.95	0.47
42:SE:77:GLU:HA	42:SE:80:THR:HG22	1.96	0.47
41:SF:54:ALA:O	41:SF:55:THR:C	2.52	0.47
41:SF:98:GLY:O	41:SF:99:ASN:C	2.53	0.47
41:SJ:190:HIS:HE1	41:SJ:414:ASN:ND2	2.11	0.47
41:SL:289:LEU:HA	41:SL:292:GLN:HE21	1.79	0.47
42:TC:276:ILE:HG12	42:TC:280:LYS:HB2	1.96	0.47
41:TD:267:MET:HG3	41:TD:301:ALA:HB3	1.94	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:TI:163:LYS:HE3	42:TI:163:LYS:HB3	1.39	0.47
42:TK:209:ILE:HA	42:TK:212:ILE:HG12	1.95	0.47
41:UD:21:TRP:CZ3	41:UD:24:ILE:HD11	2.49	0.47
42:UE:1:MET:HG3	42:UE:50:ASN:HD21	1.78	0.47
41:UF:310:TYR:HD2	41:UF:341:PHE:HE1	1.60	0.47
42:UG:297:GLU:OE1	42:UG:300:ASN:ND2	2.47	0.47
41:UH:378:PHE:HB3	41:UH:415:MET:SD	2.55	0.47
41:UJ:3:GLU:OE2	41:UJ:127:CYS:HB3	2.13	0.47
42:UM:332:ILE:HD12	42:UM:351:PHE:HD2	1.79	0.47
42:VC:211:ASP:OD2	42:VC:304:LYS:NZ	2.40	0.47
42:VG:123:ARG:NE	42:VG:127:ASP:OD1	2.48	0.47
42:VI:251:ASP:H	42:VI:254:GLU:HG3	1.79	0.47
41:VJ:47:ILE:HG12	41:VJ:59:TYR:CD2	2.49	0.47
42:VM:269:LEU:HD21	42:VM:384:ILE:HG12	1.96	0.47
42:VM:276:ILE:HD11	42:VM:286:LEU:HD11	1.95	0.47
42:WC:287:SER:N	42:WC:290:GLU:OE2	2.42	0.47
42:WG:316:CYS:SG	42:WG:378:LEU:HB2	2.54	0.47
4:1K:87:HIS:CE1	41:JD:272:PRO:O	2.66	0.47
14:2Y:169:THR:HG23	42:OK:370:LYS:NZ	2.29	0.47
19:3J:285:ARG:NH1	41:DD:277:GLY:H	2.12	0.47
20:3P:121:ARG:HE	20:3P:132:PHE:HD2	1.61	0.47
20:3P:324:LEU:HD11	20:3P:330:ILE:HD13	1.96	0.47
21:3T:52:MET:HB2	41:KD:306:ARG:HD2	1.95	0.47
22:4B:182:THR:HG22	41:CL:2:ARG:HH21	1.79	0.47
31:5D:64:ARG:HD2	41:OB:35:THR:HG21	1.96	0.47
31:5J:15:LYS:NZ	31:5J:141:LEU:O	2.47	0.47
33:5S:12:PHE:O	33:5T:129:VAL:HA	2.14	0.47
33:5T:171:ARG:HG2	33:5T:172:LEU:N	2.28	0.47
33:5V:293:LEU:HD23	33:5V:293:LEU:HA	1.74	0.47
33:5V:319:GLU:OE2	33:5V:323:TYR:OH	2.29	0.47
33:5W:255:GLU:OE2	33:5W:258:ARG:NH2	2.47	0.47
33:5X:104:GLN:OE1	35:6V:161:ARG:HB3	2.13	0.47
34:6B:475:SER:HA	34:6B:478:ARG:NH2	2.30	0.47
34:6C:154:GLY:HA2	34:6C:157:LYS:HB2	1.96	0.47
34:6C:302:LYS:O	34:6C:303:PHE:C	2.52	0.47
34:6G:87:ARG:NH2	35:6P:46:PHE:O	2.48	0.47
34:6G:163:GLU:HG2	34:6G:308:ILE:HD12	1.96	0.47
34:6G:229:CYS:HA	34:6G:232:ARG:HD2	1.97	0.47
34:6G:355:ALA:HA	34:6G:466:LEU:HD11	1.97	0.47
35:6S:166:ASP:O	35:6S:168:VAL:HG12	2.14	0.47
39:7K:68:GLN:HB3	42:WC:219:ILE:HG23	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:7N:338:ASP:OD2	41:JF:320:ARG:NH2	2.47	0.47
41:AB:170:VAL:HG11	41:AB:377:LEU:HD21	1.96	0.47
42:AC:316:CYS:HB3	42:AC:378:LEU:HB2	1.96	0.47
42:AE:51:THR:HG21	42:AE:243:ARG:HG2	1.96	0.47
42:AG:88:HIS:CD2	42:AG:89:PRO:HD2	2.49	0.47
42:AG:245:ASP:OD1	42:AG:246:GLY:N	2.47	0.47
41:AL:27:GLU:HA	41:AL:359:ARG:HD3	1.96	0.47
42:BC:180:ALA:HB3	42:BC:183:GLU:HB2	1.97	0.47
41:BD:198:GLU:HG2	41:BD:266:PHE:HE2	1.79	0.47
41:BD:285:THR:O	41:BD:286:VAL:C	2.52	0.47
41:BF:68:LEU:HA	41:BF:93:GLY:H	1.79	0.47
42:BK:223:THR:HG23	42:BK:225:THR:H	1.79	0.47
42:CC:93:ILE:H	42:CC:93:ILE:HG12	1.38	0.47
42:CC:272:TYR:HE1	42:CC:374:ALA:HB1	1.79	0.47
42:CC:385:ALA:HA	42:CC:388:TRP:CE3	2.50	0.47
41:CF:347:ASN:HD22	42:CG:178:SER:CB	2.26	0.47
42:CG:199:ASP:HB2	42:CG:256:GLN:CD	2.34	0.47
41:DB:317:PHE:N	41:DB:352:ALA:O	2.40	0.47
41:DF:112:LEU:HD23	41:DF:147:MET:HE1	1.95	0.47
41:DH:296:ALA:O	41:DH:299:MET:N	2.43	0.47
42:DK:175:PRO:HG3	42:DK:304:LYS:HG2	1.96	0.47
42:EC:268:PRO:HB3	42:EC:380:ASN:HB2	1.96	0.47
41:ED:28:HIS:CG	41:ED:47:ILE:HG13	2.49	0.47
41:ED:146:GLY:O	41:ED:149:THR:N	2.44	0.47
42:EG:16:ILE:HD13	42:EG:231:ILE:HG21	1.97	0.47
42:EI:317:LEU:HD23	42:EI:377:MET:HA	1.96	0.47
42:EK:102:ASN:O	42:EK:105:ARG:N	2.47	0.47
42:FC:17:GLY:C	42:FC:19:ALA:H	2.17	0.47
42:FC:257:THR:HG22	41:FD:397:TRP:CG	2.48	0.47
41:FF:177:ASP:OD1	41:FF:178:THR:N	2.48	0.47
41:FF:252:LYS:HG2	42:FG:100:ALA:HA	1.97	0.47
41:FL:6:HIS:HE1	41:FL:233:MET:HE1	1.79	0.47
41:FL:41:ASP:C	41:FL:43:GLN:H	2.17	0.47
41:FL:309:ARG:O	41:FL:372:THR:N	2.42	0.47
42:HE:313:MET:HB2	42:HE:380:ASN:HB3	1.96	0.47
42:HG:254:GLU:O	42:HG:255:PHE:C	2.53	0.47
41:HJ:246:LEU:HB2	41:HJ:323:MET:HE3	1.95	0.47
41:HJ:297:LYS:HA	41:HJ:297:LYS:HD2	1.63	0.47
42:HK:69:ASP:OD1	42:HK:70:LEU:N	2.48	0.47
42:IE:425:MET:HE3	42:IE:425:MET:HB2	1.79	0.47
41:IF:248:ALA:HA	41:IF:252:LYS:HD2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:IN:252:LYS:C	41:IN:254:ALA:H	2.17	0.47
42:JC:324:VAL:HG13	42:JC:327:ASP:H	1.79	0.47
42:JC:437:MET:O	41:JD:391:ARG:NH2	2.47	0.47
42:JE:252:LEU:HA	42:JE:255:PHE:HD2	1.79	0.47
42:JI:239:THR:HG23	42:JI:242:LEU:HD12	1.95	0.47
41:JJ:64:VAL:HG11	41:JJ:116:VAL:HG13	1.95	0.47
42:JK:96:LYS:HA	42:JK:96:LYS:HD3	1.46	0.47
41:JL:108:GLU:O	41:JL:109:GLY:C	2.52	0.47
41:JL:272:PRO:HG3	41:JL:364:SER:HB2	1.96	0.47
41:KH:113:VAL:HG21	41:KH:150:LEU:HG	1.97	0.47
41:KJ:317:PHE:HB2	41:KJ:353:VAL:HG22	1.95	0.47
41:KN:91:VAL:HG11	41:KN:116:VAL:HG22	1.95	0.47
41:LH:221:THR:OG1	41:LH:222:TYR:N	2.46	0.47
42:LI:93:ILE:HD11	42:LI:121:ARG:HG3	1.95	0.47
41:LN:113:VAL:HG22	41:LN:117:LEU:HD23	1.96	0.47
41:MD:170:VAL:HG11	41:MD:377:LEU:HD21	1.96	0.47
41:MD:313:VAL:CG1	41:MD:349:VAL:HG12	2.44	0.47
41:MD:334:GLN:HE22	41:MD:348:ASN:CB	2.24	0.47
42:ME:425:MET:O	42:ME:429:GLU:N	2.42	0.47
41:MJ:316:VAL:HA	41:MJ:352:ALA:HB3	1.95	0.47
41:ML:2:ARG:HH12	42:MM:72:PRO:HD2	1.79	0.47
41:ML:270:PHE:HD2	41:ML:273:LEU:HG	1.80	0.47
42:MM:205:ASP:O	42:MM:209:ILE:HG12	2.14	0.47
41:NB:211:CYS:HA	41:NB:215:LEU:HD12	1.96	0.47
41:NB:374:ILE:H	41:NB:374:ILE:HG12	1.39	0.47
42:NC:57:GLY:O	42:NC:58:ALA:C	2.53	0.47
42:NC:129:CYS:SG	42:NC:130:THR:N	2.87	0.47
42:NC:306:ASP:C	42:NC:308:ARG:H	2.17	0.47
42:NG:394:LYS:HA	42:NG:397:LEU:HD12	1.96	0.47
42:NK:368:LEU:HD13	42:NK:368:LEU:HA	1.70	0.47
41:OB:385:PHE:O	41:OB:386:THR:C	2.50	0.47
41:OD:22:GLU:HA	41:OD:81:PHE:CE2	2.49	0.47
42:OE:245:ASP:N	42:OE:245:ASP:OD2	2.46	0.47
41:OF:361:LEU:HD12	41:OF:361:LEU:H	1.78	0.47
41:OH:207:LEU:HB3	41:OH:225:LEU:HG	1.96	0.47
41:OL:375:GLN:HA	41:OL:378:PHE:HD2	1.78	0.47
42:PC:262:TYR:HB2	42:PC:265:ILE:HG22	1.95	0.47
41:PF:21:TRP:CZ3	41:PF:61:PRO:HB3	2.50	0.47
42:PG:238:ILE:HG23	42:PG:255:PHE:CZ	2.49	0.47
42:PG:395:PHE:O	42:PG:398:MET:N	2.48	0.47
42:PI:205:ASP:HB3	42:PI:303:VAL:HA	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:PJ:130:LEU:O	41:PJ:132:GLY:N	2.47	0.47
41:QB:226:ASN:HA	41:QB:229:VAL:HG22	1.96	0.47
42:QC:27:GLU:HB3	42:QC:244:PHE:HZ	1.79	0.47
41:QF:344:TRP:HZ3	42:QG:403:ALA:HA	1.79	0.47
41:QH:327:ASP:HB3	42:QI:177:VAL:HG13	1.96	0.47
41:QJ:240:LEU:HD13	41:QJ:249:ASP:HB3	1.96	0.47
42:QK:276:ILE:HG13	42:QK:280:LYS:HB3	1.94	0.47
41:QL:142:GLY:O	41:QL:143:THR:C	2.53	0.47
41:QL:276:ARG:HA	41:QL:279:GLN:HG2	1.97	0.47
41:QL:375:GLN:O	41:QL:376:GLU:C	2.53	0.47
41:RB:242:PHE:HB3	41:RB:356:ILE:HD13	1.96	0.47
41:RD:26:ASP:O	41:RD:29:GLY:N	2.47	0.47
41:RF:350:LYS:HA	41:RF:350:LYS:HD2	1.62	0.47
41:RF:382:SER:HA	41:RF:385:PHE:HB3	1.95	0.47
42:RG:110:ILE:H	42:RG:112:LYS:NZ	2.12	0.47
42:RG:329:ASN:HB3	41:RH:175:VAL:HG11	1.96	0.47
41:RH:49:VAL:HG11	41:RH:241:ARG:HG2	1.95	0.47
41:RH:53:GLU:OE1	41:RH:59:TYR:HE1	1.96	0.47
42:RI:223:THR:H	42:RI:226:ASN:HD22	1.61	0.47
41:RJ:54:ALA:HA	41:SJ:283:ALA:HA	1.96	0.47
41:RL:311:LEU:HD12	41:RL:342:VAL:HG21	1.95	0.47
41:SD:3:GLU:HB2	41:SD:127:CYS:HB3	1.95	0.47
42:SK:276:ILE:HB	42:SK:280:LYS:CG	2.44	0.47
41:TD:200:TYR:HE2	41:TD:236:VAL:HG21	1.78	0.47
42:TI:240:ALA:O	42:TI:243:ARG:N	2.47	0.47
41:UD:347:ASN:HD22	42:UE:178:SER:HB3	1.79	0.47
42:VC:24:TYR:OH	42:VC:235:VAL:HG11	2.14	0.47
42:VC:76:ASP:OD1	42:VC:79:ARG:NH2	2.47	0.47
42:VE:262:TYR:O	42:VE:265:ILE:N	2.44	0.47
41:WF:102:ALA:HB2	41:WF:403:MET:HE2	1.96	0.47
41:WF:150:LEU:HD22	41:WF:154:LYS:HE3	1.96	0.47
41:WJ:42:LEU:HD13	41:WJ:356:ILE:HD11	1.95	0.47
41:WJ:207:LEU:HA	41:WJ:210:ILE:HD12	1.95	0.47
42:WM:75:ILE:HD12	42:WM:94:THR:HG22	1.95	0.47
12:2Q:160:ASN:ND2	42:WK:322:ASP:OD1	2.47	0.47
19:3J:512:VAL:O	19:3J:516:MET:N	2.35	0.47
20:3O:646:ARG:NH2	41:ED:38:GLY:N	2.62	0.47
20:3O:649:LYS:HZ1	41:ED:41:ASP:HB2	1.79	0.47
20:3P:504:TYR:HE1	41:EJ:33:THR:HB	1.79	0.47
21:3V:81:PHE:CE2	42:LM:414:GLU:HG3	2.50	0.47
27:4R:85:LEU:HD22	27:4R:87:HIS:CD2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:5O:160:GLN:HA	32:5O:163:LEU:HD12	1.96	0.47
33:5R:163:PHE:O	33:5R:167:GLU:N	2.43	0.47
33:5R:345:LEU:HD23	33:5R:345:LEU:HA	1.76	0.47
33:5S:199:ILE:HD12	33:5S:199:ILE:HA	1.70	0.47
33:5W:118:THR:HG23	35:6U:409:ARG:HH21	1.79	0.47
33:5X:366:LEU:HD21	33:5Y:35:SER:HB3	1.97	0.47
34:6A:154:GLY:O	34:6A:157:LYS:N	2.47	0.47
34:6C:418:LEU:O	34:6C:419:ARG:C	2.52	0.47
34:6G:196:ARG:HD2	35:6Q:44:SER:OG	2.14	0.47
34:6J:50:TRP:CD1	34:6J:52:PRO:HG3	2.49	0.47
34:6K:93:ARG:HB3	34:6L:212:HIS:HB2	1.95	0.47
35:6R:259:LYS:HA	35:6R:259:LYS:HD2	1.54	0.47
35:6V:170:ASP:O	35:6V:171:CYS:C	2.52	0.47
35:6W:53:LEU:HD13	35:6W:53:LEU:HA	1.71	0.47
35:6W:276:VAL:HA	35:6W:279:ARG:NE	2.29	0.47
41:AB:143:THR:OG1	41:AB:147:MET:N	2.37	0.47
41:AL:245:GLN:H	41:AL:245:GLN:HG2	1.44	0.47
42:BG:69:ASP:OD1	42:BG:70:LEU:N	2.47	0.47
42:BI:339:ARG:O	42:BI:340:THR:C	2.52	0.47
42:CG:212:ILE:HD11	42:CG:230:LEU:HD13	1.96	0.47
42:CG:241:SER:O	42:CG:243:ARG:N	2.47	0.47
42:CI:256:GLN:NE2	41:CJ:397:TRP:HE1	2.10	0.47
41:CJ:102:ALA:HB2	41:CJ:403:MET:SD	2.54	0.47
41:CJ:237:THR:O	41:CJ:238:THR:C	2.53	0.47
41:CJ:358:PRO:HG3	41:CJ:364:SER:HB3	1.96	0.47
42:CK:258:ASN:ND2	41:CL:178:THR:HG23	2.29	0.47
42:CM:334:THR:O	42:CM:338:LYS:HG3	2.14	0.47
42:DC:255:PHE:O	42:DC:259:LEU:HD23	2.13	0.47
41:DD:253:LEU:HA	41:DD:350:LYS:NZ	2.29	0.47
41:DH:371:SER:C	41:DH:373:ALA:H	2.18	0.47
41:DJ:58:LYS:O	41:DJ:60:VAL:N	2.47	0.47
42:DM:67:PHE:HB2	42:DM:92:LEU:HD23	1.95	0.47
42:EC:151:SER:HB2	42:EC:193:THR:HG21	1.97	0.47
42:EC:213:CYS:HB3	42:EC:219:ILE:HG23	1.97	0.47
42:EC:320:ARG:HG2	42:EC:360:PRO:HD3	1.95	0.47
42:EC:438:ASP:OD2	42:EC:439:SER:N	2.47	0.47
42:EE:357:TYR:O	42:EE:358:GLN:C	2.53	0.47
41:EF:345:ILE:HG12	42:EG:398:MET:SD	2.54	0.47
42:EI:188:ILE:HG13	42:EI:395:PHE:HB2	1.95	0.47
42:EI:296:PHE:HE1	42:EI:317:LEU:HD21	1.80	0.47
41:EL:60:VAL:CG1	41:EL:86:ARG:HG3	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:FC:257:THR:HA	41:FD:397:TRP:NE1	2.30	0.47
41:FF:34:GLY:HA3	41:FF:58:LYS:HG3	1.96	0.47
42:FK:440:VAL:HG22	41:FL:390:ARG:HH22	1.79	0.47
41:FL:229:VAL:O	41:FL:233:MET:HG3	2.14	0.47
42:FM:32:PRO:HB3	42:FM:83:TYR:HA	1.97	0.47
42:FM:209:ILE:HG23	42:FM:227:LEU:HD22	1.95	0.47
41:GD:171:PRO:HB2	41:GD:381:ILE:HD11	1.95	0.47
42:GG:280:LYS:HA	42:GG:283:HIS:ND1	2.29	0.47
42:GI:296:PHE:HB3	42:GI:341:ILE:HG21	1.96	0.47
41:GJ:186:THR:HG22	41:GJ:411:ALA:HB1	1.95	0.47
42:HC:96:LYS:HA	42:HC:96:LYS:HD3	1.65	0.47
42:HC:263:PRO:HD3	41:HD:396:HIS:CD2	2.50	0.47
41:HD:156:ARG:HA	41:HD:156:ARG:HD3	1.64	0.47
41:HJ:51:TYR:CE2	41:HJ:61:PRO:HG3	2.49	0.47
41:HJ:162:ARG:O	41:HJ:163:ILE:C	2.52	0.47
42:HK:206:ASN:HA	42:HK:209:ILE:HD12	1.96	0.47
42:HM:247:ALA:O	42:HM:248:LEU:C	2.52	0.47
42:IC:169:PHE:CE1	42:IC:235:VAL:HG22	2.48	0.47
41:ID:325:GLU:HA	41:ID:328:GLU:HG2	1.94	0.47
41:IF:215:LEU:HD21	41:IF:273:LEU:HD23	1.96	0.47
42:IG:69:ASP:OD2	42:IG:71:GLU:N	2.42	0.47
42:IG:310:GLY:HA3	42:IG:383:ALA:HB2	1.96	0.47
42:IM:390:ARG:HH12	42:IM:394:LYS:HE3	1.78	0.47
41:IN:261:PRO:O	41:IN:262:ARG:C	2.52	0.47
42:JE:26:LEU:HD13	42:JE:363:VAL:HG12	1.97	0.47
42:JG:322:ASP:OD1	42:JG:373:ARG:NH1	2.48	0.47
41:JJ:259:PRO:HB3	42:JK:404:PHE:CE2	2.50	0.47
42:JK:261:PRO:HB2	42:JK:262:TYR:CD2	2.49	0.47
42:KC:138:PHE:HZ	42:KC:235:VAL:HG21	1.79	0.47
42:KE:28:HIS:CE1	42:KE:243:ARG:HD2	2.48	0.47
41:KJ:247:ASN:ND2	42:KK:71:GLU:OE2	2.47	0.47
41:KL:119:VAL:O	41:KL:123:GLU:HG2	2.14	0.47
41:KN:65:LEU:HD12	41:KN:90:PHE:CE1	2.49	0.47
42:LE:317:LEU:HG	42:LE:377:MET:HG2	1.96	0.47
42:LI:98:ASP:N	42:LI:98:ASP:OD2	2.45	0.47
42:LM:185:TYR:HD2	42:LM:418:PHE:CE1	2.33	0.47
41:LN:372:THR:HG21	41:LN:426:GLN:HG2	1.96	0.47
41:MD:406:MET:N	41:MD:406:MET:SD	2.87	0.47
41:MF:395:LEU:HD22	41:MF:395:LEU:HA	1.65	0.47
41:MH:213:ARG:HB3	41:MH:297:LYS:HD2	1.96	0.47
41:MJ:346:PRO:HG2	42:MK:394:LYS:HG3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:MK:277:SER:O	42:MK:281:ALA:N	2.46	0.47
41:NB:2:ARG:HG2	42:NC:97:GLU:HG2	1.94	0.47
41:NB:327:ASP:HB3	42:NC:177:VAL:CG1	2.44	0.47
42:NC:247:ALA:O	42:NC:249:ASN:N	2.48	0.47
42:NC:262:TYR:HB3	42:NC:263:PRO:HD2	1.95	0.47
42:NC:349:THR:OG1	42:NC:350:GLY:N	2.47	0.47
42:NG:72:PRO:O	42:NG:74:VAL:N	2.47	0.47
42:NG:348:PRO:HG3	41:NH:384:GLN:HA	1.95	0.47
41:NH:135:LEU:HB3	41:NH:166:THR:HG22	1.96	0.47
41:NH:301:ALA:O	41:NH:302:ALA:C	2.53	0.47
41:NL:166:THR:HG21	41:NL:192:LEU:HD11	1.97	0.47
41:OB:43:GLN:HG3	41:OB:242:PHE:HE1	1.79	0.47
41:OF:20:PHE:HB2	41:OF:233:MET:SD	2.55	0.47
42:OI:252:LEU:HA	42:OI:255:PHE:CE1	2.50	0.47
41:OJ:412:GLU:HG3	41:OJ:416:ASN:HD21	1.80	0.47
42:PA:16:ILE:HD11	45:PA:501:GTP:HN21	1.78	0.47
41:PB:8:GLN:HB3	41:PB:136:THR:HB	1.96	0.47
42:PE:69:ASP:O	42:PE:94:THR:HA	2.14	0.47
42:PI:14:VAL:CG2	42:PI:74:VAL:HB	2.44	0.47
42:PI:25:CYS:O	42:PI:30:ILE:HB	2.15	0.47
42:PI:172:TYR:O	42:PI:173:PRO:C	2.53	0.47
42:PK:2:ARG:NH2	42:PK:251:ASP:HA	2.29	0.47
42:PK:78:VAL:O	42:PK:79:ARG:C	2.52	0.47
41:PL:109:GLY:O	41:PL:113:VAL:N	2.45	0.47
42:QC:128:GLN:NE2	42:RC:290:GLU:OE1	2.48	0.47
42:QC:209:ILE:HG23	42:QC:227:LEU:HD12	1.96	0.47
42:QE:26:LEU:HD21	42:QE:364:PRO:HD3	1.95	0.47
41:QF:252:LYS:NZ	45:QG:501:GTP:O2A	2.45	0.47
42:QI:74:VAL:O	42:QI:75:ILE:C	2.52	0.47
41:RD:276:ARG:C	41:RD:278:SER:H	2.17	0.47
41:RD:284:LEU:HD13	41:RD:284:LEU:HA	1.72	0.47
42:RG:207:GLU:HA	42:RG:210:TYR:CD2	2.49	0.47
42:RI:169:PHE:HD2	42:RI:235:VAL:HG22	1.78	0.47
41:RJ:331:LEU:HD11	42:RK:176:GLN:HB3	1.97	0.47
42:SE:31:GLN:O	42:SE:33:ASP:N	2.45	0.47
41:SF:70:PRO:O	41:SF:71:GLY:C	2.53	0.47
42:SI:277:SER:O	42:SI:278:ALA:C	2.52	0.47
41:SJ:283:ALA:O	41:SJ:288:GLU:HG2	2.14	0.47
42:SM:4:CYS:HB2	42:SM:52:PHE:HE2	1.79	0.47
42:TC:185:TYR:CE2	42:TC:404:PHE:HB2	2.49	0.47
42:TE:308:ARG:HB2	42:TE:309:HIS:CD2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:TI:2:ARG:O	42:TI:51:THR:HA	2.14	0.47
42:TI:6:SER:HB2	42:TI:21:TRP:HE1	1.79	0.47
42:TK:275:VAL:HG12	42:TK:368:LEU:HD21	1.95	0.47
42:TK:338:LYS:HA	42:TK:338:LYS:HD2	1.41	0.47
41:TL:415:MET:O	41:TL:419:VAL:N	2.46	0.47
41:UD:376:GLU:HA	41:UD:379:LYS:HZ3	1.79	0.47
41:UH:21:TRP:CZ3	41:UH:50:TYR:HB3	2.49	0.47
42:UI:360:PRO:HG2	42:UI:371:VAL:HG23	1.96	0.47
41:UL:330:MET:CE	41:UL:349:VAL:HG11	2.44	0.47
42:VC:27:GLU:OE1	42:VC:243:ARG:NH1	2.47	0.47
42:VE:226:ASN:HB2	42:VE:367:ASP:OD2	2.14	0.47
41:VH:207:LEU:HB3	41:VH:225:LEU:HG	1.96	0.47
41:VH:255:VAL:HG11	42:VI:100:ALA:O	2.14	0.47
42:VI:103:TYR:H	42:VI:408:TYR:HE1	1.59	0.47
41:VJ:58:LYS:HE2	41:VJ:58:LYS:HB3	1.69	0.47
41:VJ:182:PRO:HG3	41:VJ:384:GLN:HB3	1.94	0.47
41:VL:147:MET:HE3	41:VL:151:LEU:HD21	1.96	0.47
42:VM:191:THR:HG21	42:VM:425:MET:HB2	1.96	0.47
41:WD:48:ASN:O	41:WD:62:ARG:NH2	2.47	0.47
42:WE:96:LYS:HE2	42:WE:96:LYS:HB2	1.43	0.47
42:WE:164:LYS:HA	42:WE:164:LYS:HD3	1.69	0.47
41:WF:155:ILE:HG23	41:WF:159:TYR:HD1	1.79	0.47
41:WH:13:GLY:HA2	41:WH:136:THR:HB	1.96	0.47
42:WI:280:LYS:H	42:WI:280:LYS:HG3	1.53	0.47
42:WK:107:HIS:HD2	42:WK:152:LEU:HB2	1.78	0.47
2:1F:110:LEU:HD11	26:4M:164:LEU:HD12	1.95	0.47
14:2W:87:LEU:HD12	42:OA:370:LYS:HZ1	1.80	0.47
15:3A:41:LYS:HB2	42:JI:288:VAL:HG22	1.97	0.47
16:3D:252:SER:OG	42:VC:308:ARG:NH2	2.43	0.47
19:3J:266:TYR:OH	19:3J:271:ASP:OD1	2.26	0.47
19:3L:262:TYR:HE2	19:3L:291:LEU:HD13	1.79	0.47
20:3O:242:SER:OG	20:3O:243:ASP:N	2.47	0.47
20:3P:85:ILE:H	20:3P:180:ASP:HB3	1.80	0.47
21:3U:193:ASP:OD1	21:3U:193:ASP:N	2.48	0.47
27:4S:117:CYS:HB2	27:4S:159:LEU:HD22	1.97	0.47
31:5J:90:GLY:H	31:5J:93:VAL:HB	1.78	0.47
32:5M:144:ARG:HA	32:5M:147:MET:HE2	1.97	0.47
33:5T:326:ASN:HB3	33:5T:327:VAL:H	1.44	0.47
34:6C:135:THR:HG21	34:6D:389:LYS:HD2	1.96	0.47
34:6H:291:ASP:O	34:6L:68:TYR:N	2.45	0.47
34:6K:135:THR:HG21	34:6L:389:LYS:HE3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:6M:395:VAL:O	34:6M:399:ARG:HG3	2.14	0.47
35:6Q:63:ARG:NH1	35:6R:411:SER:OG	2.48	0.47
35:6R:236:THR:OG1	35:6R:237:ASP:N	2.46	0.47
38:7H:44:PRO:HD3	42:IK:338:LYS:HZ2	1.79	0.47
42:AG:60:LYS:O	42:AG:61:HIS:C	2.52	0.47
42:AG:200:CYS:HA	42:AG:266:HIS:HB2	1.97	0.47
41:AH:36:TYR:CZ	41:AH:38:GLY:HA3	2.49	0.47
42:AI:275:VAL:HG12	42:AI:368:LEU:HD21	1.97	0.47
42:AK:31:GLN:HB2	42:AK:32:PRO:HD2	1.96	0.47
42:AK:135:PHE:HZ	42:AK:161:TYR:CG	2.32	0.47
41:BB:343:GLU:N	41:BB:343:GLU:OE1	2.47	0.47
41:BD:5:VAL:HG23	41:BD:130:LEU:HD11	1.96	0.47
41:BD:7:LEU:HD21	41:BD:120:VAL:CG2	2.43	0.47
42:BE:274:PRO:HG3	42:BE:374:ALA:HA	1.97	0.47
42:BI:171:ILE:HA	42:BI:204:VAL:O	2.14	0.47
42:CC:352:LYS:HA	41:CD:177:ASP:O	2.14	0.47
41:CD:48:ASN:O	41:CD:49:VAL:C	2.53	0.47
41:CD:154:LYS:HA	41:CD:154:LYS:HD3	1.67	0.47
42:CE:310:GLY:HA3	42:CE:383:ALA:HB2	1.95	0.47
41:CF:273:LEU:HD12	41:CF:273:LEU:HA	1.70	0.47
41:CF:325:GLU:O	41:CF:329:GLN:HB2	2.14	0.47
41:CJ:156:ARG:HA	41:CJ:156:ARG:HD2	1.48	0.47
41:CJ:256:ASN:CG	42:CK:181:VAL:HG22	2.35	0.47
42:CM:189:LEU:HD11	42:CM:418:PHE:HE1	1.80	0.47
42:DE:11:GLN:HE22	42:DE:71:GLU:HB3	1.80	0.47
42:DE:258:ASN:HD22	42:DE:352:LYS:HE2	1.79	0.47
41:DF:154:LYS:HB2	41:DF:154:LYS:HE3	1.70	0.47
41:DH:271:ALA:HB3	41:DH:272:PRO:CD	2.45	0.47
41:DH:279:GLN:O	41:DH:280:GLN:C	2.51	0.47
41:DH:398:TYR:O	41:DH:400:GLY:N	2.46	0.47
42:DI:137:ILE:HD11	42:DI:166:LYS:HG2	1.97	0.47
42:DI:211:ASP:OD2	42:DI:215:ARG:NH2	2.47	0.47
42:DI:352:LYS:HE2	41:DJ:99:ASN:HD21	1.79	0.47
42:DM:345:ASP:N	42:DM:345:ASP:OD1	2.47	0.47
41:EH:233:MET:HE3	41:EH:270:PHE:HB2	1.96	0.47
41:EL:323:MET:HG2	42:EM:224:TYR:N	2.29	0.47
42:FC:395:PHE:CZ	42:FC:399:TYR:HB2	2.50	0.47
41:FD:361:LEU:O	41:FD:362:LYS:C	2.53	0.47
41:FF:7:LEU:HD21	41:FF:133:PHE:HD2	1.79	0.47
42:FK:384:ILE:O	42:FK:386:GLU:N	2.47	0.47
41:FL:216:LYS:HB2	41:FL:275:SER:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:FM:320:ARG:N	42:FM:374:ALA:O	2.36	0.47
42:GE:7:VAL:HG23	42:GE:66:VAL:HG13	1.96	0.47
41:GH:211:CYS:SG	41:GH:217:LEU:HD21	2.55	0.47
41:GJ:25:SER:HB3	41:GJ:51:TYR:OH	2.14	0.47
42:GK:209:ILE:HA	42:GK:212:ILE:HG12	1.96	0.47
41:GL:64:VAL:HA	41:GL:89:ASN:HB3	1.96	0.47
41:GL:251:ARG:HG2	41:GL:251:ARG:HH11	1.80	0.47
42:GM:106:GLY:HA3	42:GM:148:GLY:HA3	1.96	0.47
42:HE:245:ASP:OD1	42:HE:357:TYR:HB2	2.14	0.47
42:HE:254:GLU:O	42:HE:258:ASN:ND2	2.47	0.47
41:HJ:210:ILE:HD13	41:HJ:210:ILE:HA	1.68	0.47
42:HM:291:ILE:HD12	42:HM:291:ILE:HA	1.72	0.47
42:HM:403:ALA:O	42:HM:404:PHE:C	2.51	0.47
42:IE:340:THR:HG23	42:IE:341:ILE:H	1.78	0.47
41:IF:25:SER:OG	41:IF:30:ILE:O	2.31	0.47
42:IG:274:PRO:HG3	42:IG:374:ALA:HA	1.95	0.47
42:IG:306:ASP:N	42:IG:306:ASP:OD1	2.47	0.47
41:IH:268:PRO:HD2	41:IH:300:MET:HB2	1.96	0.47
41:IH:346:PRO:HD2	42:II:398:MET:HE2	1.95	0.47
42:II:52:PHE:HZ	42:II:239:THR:HG21	1.80	0.47
42:IM:53:PHE:C	42:IM:64:ARG:HH12	2.18	0.47
41:IN:240:LEU:HD12	41:IN:240:LEU:H	1.80	0.47
41:JJ:8:GLN:OE1	41:JJ:8:GLN:N	2.48	0.47
41:JJ:27:GLU:HA	41:JJ:359:ARG:HG3	1.96	0.47
41:JJ:209:ASP:OD1	41:JJ:210:ILE:N	2.48	0.47
41:JL:174:LYS:HE3	41:JL:174:LYS:HB3	1.60	0.47
42:JM:436:GLY:O	42:JM:437:MET:C	2.53	0.47
41:KF:200:TYR:HD2	41:KF:268:PRO:HG3	1.78	0.47
41:KH:283:ALA:HA	41:LH:55:THR:HG23	1.97	0.47
42:KI:67:PHE:O	42:KI:93:ILE:N	2.47	0.47
42:KM:317:LEU:HD22	42:KM:375:VAL:HG11	1.97	0.47
41:LD:202:ILE:H	41:LD:202:ILE:HG13	1.58	0.47
41:LD:256:ASN:ND2	42:LE:182:VAL:HG22	2.27	0.47
42:LE:100:ALA:N	45:LE:501:GTP:O2G	2.48	0.47
41:LN:192:LEU:O	41:LN:196:THR:OG1	2.28	0.47
41:LN:204:ASN:ND2	43:LN:501:GDP:O2'	2.47	0.47
42:MC:90:GLU:OE1	42:MC:121:ARG:NH1	2.48	0.47
42:MG:8:HIS:HE1	42:MG:21:TRP:HE1	1.63	0.47
42:MI:51:THR:HG21	42:MI:243:ARG:HG2	1.97	0.47
42:NC:171:ILE:HA	42:NC:204:VAL:O	2.14	0.47
41:ND:211:CYS:HB2	41:ND:217:LEU:HD21	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:NG:209:ILE:HG12	42:NG:302:MET:HE3	1.96	0.47
41:NH:130:LEU:HD21	41:NH:133:PHE:CE1	2.50	0.47
42:NK:99:ALA:O	42:NK:100:ALA:C	2.52	0.47
42:NK:370:LYS:HA	42:NK:370:LYS:HD2	1.39	0.47
41:NL:12:CYS:SG	41:NL:222:TYR:OH	2.59	0.47
42:OA:102:ASN:HB3	42:OA:105:ARG:HB2	1.96	0.47
41:OB:122:LYS:HA	41:OB:122:LYS:HD3	1.64	0.47
42:OI:238:ILE:HG13	42:OI:239:THR:HG23	1.95	0.47
41:PB:322:SER:HB2	41:PB:325:GLU:HB2	1.95	0.47
42:PE:287:SER:HA	42:PE:373:ARG:HH22	1.79	0.47
41:PF:174:LYS:O	41:PF:175:VAL:C	2.53	0.47
41:PF:319:GLY:HA2	41:PF:357:PRO:HD3	1.96	0.47
42:PG:313:MET:HB3	42:PG:346:TRP:CH2	2.50	0.47
42:PI:151:SER:HB2	42:PI:193:THR:HG21	1.95	0.47
41:PL:4:ILE:HG12	41:PL:5:VAL:H	1.80	0.47
41:QB:193:VAL:HG11	41:QB:418:LEU:HD11	1.96	0.47
41:QH:212:PHE:HD1	41:QH:212:PHE:HA	1.62	0.47
41:QH:303:CYS:HB3	41:QH:373:ALA:HB1	1.95	0.47
41:QJ:215:LEU:O	41:QJ:216:LYS:C	2.52	0.47
41:QL:162:ARG:O	41:QL:163:ILE:C	2.53	0.47
42:RG:13:GLY:HA2	42:RG:16:ILE:HG12	1.96	0.47
41:RH:68:LEU:HD12	41:RH:143:THR:HG22	1.95	0.47
41:RH:73:MET:HE1	41:RH:92:PHE:HB3	1.97	0.47
42:RI:252:LEU:HD23	42:RI:255:PHE:HE1	1.79	0.47
42:SG:105:ARG:HG2	42:SG:411:GLU:OE1	2.15	0.47
42:SI:347:CYS:SG	42:SI:347:CYS:O	2.72	0.47
42:SI:348:PRO:HD2	41:SJ:388:MET:CE	2.45	0.47
41:SJ:63:ALA:O	41:SJ:89:ASN:ND2	2.47	0.47
42:TC:33:ASP:HB2	42:TC:60:LYS:HZ1	1.80	0.47
42:TI:80:THR:HA	42:TI:84:ARG:HG3	1.96	0.47
42:TI:100:ALA:O	42:TI:101:ASN:C	2.53	0.47
42:TI:311:LYS:O	42:TI:312:TYR:C	2.52	0.47
41:TJ:240:LEU:HD11	41:TJ:249:ASP:HA	1.96	0.47
41:TJ:262:ARG:O	41:TJ:422:TYR:OH	2.28	0.47
41:TJ:263:LEU:HB3	41:TJ:370:ASN:HD21	1.80	0.47
41:TJ:330:MET:SD	41:TJ:334:GLN:NE2	2.87	0.47
42:TM:75:ILE:HA	42:TM:78:VAL:HG12	1.97	0.47
42:TM:270:ALA:HA	42:TM:377:MET:O	2.14	0.47
42:TM:329:ASN:OD1	42:TM:330:ALA:N	2.47	0.47
42:UE:280:LYS:O	42:UE:284:GLU:HG3	2.13	0.47
42:UE:352:LYS:HG3	41:UF:178:THR:HA	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:UH:8:GLN:HB2	41:UH:65:LEU:HD23	1.96	0.47
42:VC:291:ILE:HD12	42:VC:375:VAL:HG23	1.97	0.47
41:VL:21:TRP:HA	41:VL:24:ILE:HG22	1.95	0.47
41:VL:375:GLN:HB2	41:VL:419:VAL:HG13	1.95	0.47
42:VM:279:GLU:N	42:VM:279:GLU:OE2	2.47	0.47
41:WF:394:PHE:HD2	41:WF:397:TRP:HH2	1.61	0.47
42:WI:133:GLN:HE21	42:WI:133:GLN:HB2	1.51	0.47
41:WJ:323:MET:HG3	42:WK:224:TYR:CD1	2.49	0.47
41:WL:121:ARG:NH1	41:WL:158:GLU:OE1	2.47	0.47
13:2S:131:ARG:HD2	24:4G:323:GLU:HB3	1.97	0.47
19:3L:90:VAL:H	42:AK:370:LYS:HG2	1.78	0.47
21:3U:225:PRO:HG2	42:VI:55:GLU:HG2	1.97	0.47
25:4J:11:ALA:HB3	25:4J:24:TYR:HB2	1.95	0.47
26:4L:145:THR:HG22	26:4L:148:GLN:HG2	1.97	0.47
27:4Q:128:ARG:HG3	27:4Q:167:VAL:HG13	1.96	0.47
27:4S:199:ILE:HD13	41:AJ:424:GLN:HB2	1.96	0.47
31:5D:64:ARG:HD3	41:OB:35:THR:HG21	1.95	0.47
32:5L:344:ILE:HA	32:5L:347:ASN:HB3	1.96	0.47
32:5M:388:VAL:HB	32:5M:389:LEU:HD12	1.97	0.47
33:5T:393:THR:C	33:5T:395:ARG:H	2.18	0.47
33:5W:55:TRP:CZ2	34:6A:115:HIS:HB3	2.50	0.47
34:6A:239:LYS:HB3	34:6A:321:LEU:HD21	1.97	0.47
34:6F:402:GLU:HG3	34:6G:267:ILE:HG23	1.96	0.47
34:6G:393:LEU:HB3	34:6G:427:VAL:HG11	1.96	0.47
34:6M:143:THR:HA	34:6N:399:ARG:HH22	1.79	0.47
37:7D:27:GLY:H	37:7D:28:PRO:HD3	1.79	0.47
38:7I:217:PRO:HB2	38:7I:219:TYR:CE2	2.49	0.47
42:AK:153:LEU:HD12	42:AK:153:LEU:HA	1.75	0.47
41:AL:385:PHE:HZ	41:AL:408:PHE:HB3	1.79	0.47
41:BB:248:ALA:HA	41:BB:252:LYS:HD3	1.95	0.47
41:BD:361:LEU:H	41:BD:361:LEU:HG	1.46	0.47
42:CC:6:SER:HB3	42:CC:138:PHE:CE2	2.49	0.47
41:CD:67:ASP:HA	41:CD:143:THR:HG21	1.97	0.47
41:CD:246:LEU:HD13	45:CE:501:GTP:C8	2.46	0.47
41:CD:330:MET:HG2	41:CD:349:VAL:HG11	1.97	0.47
42:CI:64:ARG:HB2	42:CI:125:LEU:HD21	1.97	0.47
42:CI:267:PHE:HB3	42:CI:384:ILE:HD13	1.95	0.47
41:CJ:257:MET:SD	41:CJ:312:THR:OG1	2.70	0.47
42:DC:48:SER:HB2	42:DC:243:ARG:HB2	1.97	0.47
42:DG:217:LEU:HD21	42:DG:368:LEU:HD23	1.95	0.47
42:DI:7:VAL:HG12	42:DI:66:VAL:HG22	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DJ:81:PHE:O	41:DJ:82:GLY:C	2.53	0.47
42:DK:125:LEU:C	42:DK:127:ASP:H	2.17	0.47
41:ED:276:ARG:HD3	41:ED:276:ARG:HA	1.57	0.47
42:EG:40:LYS:O	42:EG:41:THR:C	2.52	0.47
42:EG:242:LEU:HD13	42:EG:252:LEU:HG	1.97	0.47
41:EH:256:ASN:HD21	42:EI:101:ASN:HB2	1.79	0.47
42:EI:2:ARG:HD3	41:EJ:69:GLU:OE2	2.15	0.47
42:EI:103:TYR:CD1	42:EI:148:GLY:HA2	2.50	0.47
42:EI:217:LEU:HB3	42:EI:219:ILE:HG12	1.96	0.47
41:FD:344:TRP:HB3	42:FE:401:LYS:CE	2.44	0.47
42:FE:108:TYR:OH	42:FE:413:MET:N	2.47	0.47
41:FJ:51:TYR:HB3	41:FJ:59:TYR:HB3	1.96	0.47
41:FJ:269:GLY:N	41:FJ:367:PHE:O	2.47	0.47
41:FL:253:LEU:O	41:FL:257:MET:HB2	2.15	0.47
42:FM:172:TYR:CD2	42:FM:205:ASP:HB3	2.47	0.47
42:GC:257:THR:HA	41:GD:397:TRP:CD1	2.49	0.47
41:GD:210:ILE:HD11	41:GD:228:LEU:HD13	1.96	0.47
41:GD:293:MET:HE2	41:GD:293:MET:HB2	1.71	0.47
41:GL:12:CYS:HB3	41:GL:138:SER:HB3	1.95	0.47
41:HD:171:PRO:HB3	41:HD:181:GLU:HG2	1.96	0.47
42:HG:250:VAL:HG23	42:HG:254:GLU:CB	2.36	0.47
42:HG:338:LYS:O	42:HG:339:ARG:C	2.53	0.47
41:HH:32:PRO:HG3	41:HH:81:PHE:CE1	2.49	0.47
42:HI:338:LYS:H	42:HI:338:LYS:HG2	1.50	0.47
42:HK:201:ALA:H	42:HK:268:PRO:HD3	1.79	0.47
41:IF:322:SER:HB3	42:IG:221:ARG:HG3	1.94	0.47
42:IK:42:ILE:HD11	42:IK:45:GLY:HA3	1.97	0.47
42:IM:390:ARG:HH22	42:IM:394:LYS:HE3	1.79	0.47
41:IN:130:LEU:HB3	41:IN:162:ARG:HH21	1.79	0.47
41:JD:257:MET:O	41:JD:312:THR:OG1	2.32	0.47
42:JE:72:PRO:HB3	42:JE:94:THR:HB	1.95	0.47
41:JF:63:ALA:O	41:JF:89:ASN:ND2	2.41	0.47
42:JI:172:TYR:HB2	42:JI:203:MET:HB2	1.95	0.47
42:JM:104:ALA:HB1	42:JM:411:GLU:HB2	1.96	0.47
41:LD:178:THR:HG23	41:LD:181:GLU:HB3	1.96	0.47
42:LG:283:HIS:CD2	42:MG:89:PRO:HD3	2.50	0.47
41:LL:36:TYR:OH	41:LL:40:SER:O	2.31	0.47
41:MD:271:ALA:HB1	41:MD:289:LEU:HD22	1.95	0.47
41:ML:107:THR:HG22	41:ML:108:GLU:H	1.79	0.47
41:MN:54:ALA:HB3	41:MN:58:LYS:HB2	1.97	0.47
42:NA:3:GLU:HA	42:NA:51:THR:HA	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:NA:115:ILE:HG12	42:NA:152:LEU:HG	1.95	0.47
42:NA:275:VAL:HA	42:NA:368:LEU:HD11	1.96	0.47
42:NC:274:PRO:HG3	42:NC:373:ARG:O	2.14	0.47
42:NC:337:THR:O	42:NC:338:LYS:C	2.53	0.47
41:ND:132:GLY:HA2	41:ND:163:ILE:O	2.14	0.47
42:NE:238:ILE:HG12	42:NE:378:LEU:HD11	1.95	0.47
41:NF:96:GLY:O	41:NF:97:ALA:C	2.52	0.47
41:NH:320:ARG:HH22	41:NH:362:LYS:HB3	1.80	0.47
42:NI:207:GLU:HB3	42:NI:304:LYS:HE3	1.94	0.47
42:NI:263:PRO:HD3	41:NJ:396:HIS:CG	2.50	0.47
41:NL:174:LYS:HD2	41:NL:175:VAL:HG23	1.96	0.47
42:OA:258:ASN:ND2	42:OA:352:LYS:HD2	2.30	0.47
41:OB:86:ARG:HG3	41:OB:87:PRO:HD2	1.97	0.47
41:OB:123:GLU:HG2	41:OB:124:ALA:N	2.29	0.47
41:OD:240:LEU:HD11	41:OD:249:ASP:HA	1.95	0.47
42:OE:121:ARG:O	42:OE:125:LEU:N	2.47	0.47
41:OL:8:GLN:HG3	41:OL:14:ASN:HA	1.96	0.47
42:PE:114:LEU:HD12	42:PE:117:LEU:HD22	1.96	0.47
42:PG:24:TYR:OH	42:PG:235:VAL:HG11	2.15	0.47
41:PH:28:HIS:HA	41:PH:43:GLN:HG3	1.96	0.47
41:PH:56:GLY:O	41:PH:58:LYS:N	2.48	0.47
41:PH:107:THR:O	41:PH:108:GLU:C	2.52	0.47
42:PI:23:LEU:HD12	42:PI:361:THR:HG23	1.97	0.47
42:PI:23:LEU:HD13	42:PI:363:VAL:HG13	1.96	0.47
42:PI:265:ILE:O	42:PI:265:ILE:HG12	2.14	0.47
42:QC:269:LEU:N	42:QC:379:SER:O	2.46	0.47
41:QD:222:TYR:HA	41:QD:225:LEU:HB2	1.96	0.47
41:QF:309:ARG:HH21	41:QF:342:VAL:HA	1.79	0.47
41:QH:385:PHE:HZ	41:QH:408:PHE:HB3	1.78	0.47
41:QL:147:MET:O	41:QL:150:LEU:N	2.47	0.47
41:RB:193:VAL:HA	41:RB:264:HIS:NE2	2.29	0.47
42:RC:107:HIS:HA	42:RC:152:LEU:HD22	1.95	0.47
41:RD:323:MET:HE3	42:RE:224:TYR:CE2	2.50	0.47
41:RD:405:GLU:HA	41:RD:408:PHE:CD2	2.49	0.47
42:RE:1:MET:HA	42:RE:131:GLY:H	1.80	0.47
42:RE:388:TRP:O	42:RE:392:ASP:N	2.47	0.47
41:RF:185:ALA:HB1	41:RF:381:ILE:HD13	1.97	0.47
42:RG:136:LEU:HD21	42:RG:252:LEU:HD11	1.96	0.47
41:RJ:87:PRO:O	41:RJ:88:ASP:C	2.52	0.47
42:RK:22:GLU:OE2	42:RK:229:ARG:NH1	2.48	0.47
41:RL:8:GLN:HE21	41:RL:65:LEU:HG	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:SD:378:PHE:CZ	41:SD:418:LEU:HB3	2.49	0.47
41:SF:12:CYS:O	41:SF:16:ILE:HG12	2.14	0.47
42:SG:147:SER:HB2	42:SG:190:THR:HG21	1.96	0.47
42:SI:224:TYR:HA	42:SI:227:LEU:HD12	1.96	0.47
41:SL:105:HIS:HA	41:SL:150:LEU:HD22	1.96	0.47
42:SM:229:ARG:CZ	42:SM:366:GLY:HA2	2.45	0.47
41:TF:159:TYR:HB3	41:TF:162:ARG:NE	2.29	0.47
42:TG:6:SER:HA	42:TG:136:LEU:HB2	1.96	0.47
42:TG:192:HIS:HE1	42:TG:420:GLU:HG2	1.79	0.47
41:TJ:243:PRO:HD2	41:TJ:356:ILE:HD13	1.96	0.47
41:TJ:324:LYS:NZ	42:TK:222:PRO:HD2	2.18	0.47
42:TM:219:ILE:HD12	42:TM:219:ILE:HG23	1.58	0.47
42:UE:262:TYR:OH	41:UF:391:ARG:O	2.26	0.47
41:UJ:273:LEU:O	41:UJ:282:ARG:NH1	2.47	0.47
41:UL:236:VAL:HA	41:UL:316:VAL:HG21	1.97	0.47
42:UM:197:HIS:ND1	42:UM:197:HIS:O	2.47	0.47
42:VE:262:TYR:HB2	42:VE:265:ILE:HD13	1.96	0.47
42:VG:7:VAL:HG23	42:VG:66:VAL:HB	1.96	0.47
41:VJ:290:THR:O	41:VJ:294:PHE:HD2	1.97	0.47
42:VM:195:LEU:HA	42:VM:266:HIS:HE1	1.78	0.47
42:WG:290:GLU:OE2	42:WG:290:GLU:N	2.39	0.47
41:WH:271:ALA:HB2	41:WH:293:MET:HG3	1.95	0.47
41:WJ:285:THR:O	41:WJ:288:GLU:HG3	2.14	0.47
41:WN:19:LYS:HD3	41:WN:22:GLU:OE1	2.15	0.47
41:WN:26:ASP:O	41:WN:359:ARG:NH1	2.47	0.47
2:1D:187:ARG:NH2	26:4K:240:GLU:OE2	2.47	0.47
8:2B:30:ARG:NE	41:AJ:431:GLU:OE2	2.24	0.47
9:2D:539:LEU:HD11	42:IM:223:THR:HB	1.96	0.47
16:3C:115:GLY:C	42:VI:214:ARG:HH12	2.18	0.47
19:3L:171:GLY:H	19:3L:202:ASN:HB2	1.78	0.47
19:3L:502:ARG:HD2	20:3Q:633:ARG:HH21	1.79	0.47
20:3N:68:ASP:OD1	20:3N:89:LYS:HE3	2.15	0.47
20:3O:649:LYS:NZ	41:ED:41:ASP:HB2	2.30	0.47
21:3S:127:ILE:HD12	21:3S:136:LYS:HB3	1.96	0.47
22:3Y:21:THR:O	41:BD:46:ARG:NH1	2.45	0.47
22:3Z:244:VAL:HA	22:3Z:245:PRO:HG3	1.93	0.47
22:4B:83:ARG:NH1	22:4B:95:PHE:O	2.48	0.47
23:4D:35:THR:H	41:TJ:58:LYS:HE3	1.79	0.47
23:4D:84:GLU:OE1	23:4D:86:GLN:HG3	2.14	0.47
24:4F:16:LYS:O	24:4F:20:ILE:HG12	2.14	0.47
24:4F:46:GLU:HB3	42:JC:1:MET:HE3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:4G:242:ARG:HH12	42:GK:59:GLY:CA	2.28	0.47
25:4J:62:ILE:HD11	25:4J:78:TYR:CE1	2.49	0.47
26:4L:94:ASN:HA	26:4L:97:LYS:HG2	1.96	0.47
26:4L:164:LEU:HG	26:4L:168:ARG:HH21	1.80	0.47
27:4O:194:LEU:HD13	27:4O:197:LEU:HD12	1.97	0.47
27:4R:113:PHE:HA	27:4R:131:ILE:HD11	1.97	0.47
31:5D:17:LYS:HG2	41:OB:39:ASP:HB2	1.95	0.47
31:5E:139:VAL:O	31:5E:141:LEU:N	2.47	0.47
31:5G:15:LYS:NZ	31:5G:141:LEU:O	2.48	0.47
31:5H:14:GLN:HA	31:5H:17:LYS:HB2	1.96	0.47
32:5N:122:ARG:HG3	32:5N:385:ILE:HD12	1.97	0.47
32:5N:329:CYS:HA	32:5O:212:VAL:O	2.12	0.47
33:5V:267:LYS:HB2	33:5V:267:LYS:HE2	1.50	0.47
33:5W:122:SER:O	33:5W:124:ARG:NH1	2.47	0.47
33:5X:267:LYS:NZ	34:6C:305:ASP:OD2	2.47	0.47
34:6A:202:ARG:HH22	34:6A:350:ARG:HH21	1.62	0.47
34:6A:222:GLU:HG3	34:6A:339:GLN:HB3	1.97	0.47
34:6A:484:LEU:HD13	34:6A:484:LEU:HA	1.76	0.47
34:6B:386:ILE:HG23	34:6B:431:ILE:HG23	1.97	0.47
34:6C:202:ARG:HD3	34:6C:347:PHE:CE1	2.49	0.47
34:6C:211:VAL:O	34:6C:213:ASP:N	2.48	0.47
34:6C:250:ALA:O	34:6C:251:GLN:C	2.53	0.47
34:6C:312:GLN:HA	34:6C:315:ARG:HE	1.79	0.47
34:6D:360:LYS:O	34:6D:361:ILE:C	2.53	0.47
34:6D:447:SER:OG	34:6D:448:LEU:N	2.48	0.47
34:6E:391:ALA:O	34:6E:392:PHE:C	2.53	0.47
34:6K:160:ILE:HD11	34:6K:254:LEU:O	2.14	0.47
35:6V:294:ARG:HD3	35:6V:443:LEU:HD12	1.97	0.47
36:6Z:50:LEU:HD22	36:6Z:73:SER:HB2	1.96	0.47
37:7C:103:PRO:HD2	42:TM:338:LYS:HG2	1.96	0.47
37:7F:102:GLY:HA2	42:OA:338:LYS:HD3	1.95	0.47
39:7L:49:TRP:HD1	39:7L:51:GLY:H	1.61	0.47
41:AD:73:MET:HA	41:AD:76:VAL:HG12	1.97	0.47
41:AD:314:ALA:HA	41:AD:350:LYS:HB3	1.96	0.47
41:AF:47:ILE:HG13	41:AF:51:TYR:HB2	1.97	0.47
41:AH:399:THR:HA	41:AH:403:MET:O	2.14	0.47
42:AI:333:ALA:O	42:AI:337:THR:HG23	2.14	0.47
42:AI:338:LYS:H	42:AI:338:LYS:HG2	1.49	0.47
42:AI:403:ALA:O	42:AI:404:PHE:C	2.52	0.47
42:AK:265:ILE:HG21	42:AK:313:MET:HE1	1.95	0.47
42:BC:133:GLN:O	42:BC:165:SER:OG	2.31	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BD:245:GLN:HB2	41:BD:353:VAL:HG13	1.96	0.47
42:BE:207:GLU:HG2	42:BE:304:LYS:HE3	1.97	0.47
42:BE:245:ASP:OD1	42:BE:245:ASP:N	2.47	0.47
42:BE:255:PHE:HZ	42:BE:318:LEU:HD21	1.80	0.47
41:BH:170:VAL:HG11	41:BH:377:LEU:HD21	1.95	0.47
41:BH:324:LYS:NZ	41:BH:328:GLU:OE2	2.43	0.47
42:BI:115:ILE:HA	42:BI:118:VAL:HG22	1.97	0.47
41:BJ:215:LEU:HB3	41:BJ:217:LEU:HG	1.97	0.47
41:BJ:246:LEU:HD21	42:BK:179:THR:HG21	1.96	0.47
41:BJ:333:VAL:O	41:BJ:337:ASN:N	2.47	0.47
41:BL:376:GLU:HA	41:BL:379:LYS:HG2	1.96	0.47
41:CD:75:SER:C	41:CD:77:ARG:H	2.18	0.47
41:CF:81:PHE:HB3	41:CF:84:ILE:HD11	1.97	0.47
41:CF:86:ARG:HB3	41:CF:89:ASN:HB2	1.95	0.47
41:CF:337:ASN:HB3	41:CF:340:TYR:HD2	1.80	0.47
42:CG:427:ALA:O	42:CG:428:LEU:C	2.53	0.47
42:CI:316:CYS:HB3	42:CI:378:LEU:HB2	1.96	0.47
41:CJ:207:LEU:HD22	41:CJ:228:LEU:HD13	1.96	0.47
42:CK:14:VAL:HG12	42:CK:67:PHE:HB3	1.97	0.47
42:CM:206:ASN:OD1	45:CM:501:GTP:N2	2.47	0.47
41:DB:99:ASN:HB3	41:DB:180:VAL:HG11	1.96	0.47
41:DB:194:GLU:HA	41:DB:264:HIS:HE1	1.80	0.47
42:DC:235:VAL:O	42:DC:239:THR:HG22	2.15	0.47
41:DD:318:ARG:HE	41:DD:358:PRO:HD3	1.80	0.47
41:DF:248:ALA:HA	41:DF:252:LYS:HD3	1.96	0.47
42:DG:9:VAL:HG11	42:DG:150:THR:HG23	1.97	0.47
42:DG:185:TYR:HE2	42:DG:404:PHE:HB2	1.78	0.47
41:DH:47:ILE:HG21	41:DH:59:TYR:HE2	1.80	0.47
42:DI:107:HIS:CE1	42:DI:148:GLY:HA2	2.49	0.47
41:DJ:46:ARG:HH22	42:DK:73:THR:HG23	1.79	0.47
41:DJ:58:LYS:CB	41:EJ:280:GLN:HB2	2.44	0.47
41:DJ:108:GLU:O	41:DJ:109:GLY:C	2.52	0.47
42:DK:31:GLN:HB2	42:DK:37:PRO:HD3	1.97	0.47
42:DK:60:LYS:O	42:DK:62:VAL:N	2.41	0.47
42:DK:70:LEU:HD13	42:DK:110:ILE:HG13	1.96	0.47
42:DK:70:LEU:HD22	42:DK:110:ILE:HB	1.95	0.47
41:ED:86:ARG:HG2	41:ED:87:PRO:HD2	1.95	0.47
41:ED:98:GLY:O	41:ED:100:ASN:N	2.48	0.47
41:ED:186:THR:HG22	41:ED:411:ALA:HB1	1.96	0.47
41:ED:193:VAL:C	41:ED:195:ASN:H	2.18	0.47
41:ED:358:PRO:O	41:ED:359:ARG:C	2.53	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:ED:375:GLN:O	41:ED:376:GLU:C	2.53	0.47
42:EE:1:MET:HB3	42:EE:2:ARG:H	1.57	0.47
42:EE:252:LEU:HA	42:EE:255:PHE:CD1	2.49	0.47
42:EG:140:SER:HB3	45:EG:501:GTP:O2A	2.15	0.47
41:EH:268:PRO:HG2	41:EH:300:MET:CE	2.45	0.47
42:EI:307:PRO:HB2	42:EI:312:TYR:HE1	1.80	0.47
42:EK:225:THR:O	42:EK:229:ARG:HG2	2.14	0.47
42:EK:277:SER:O	42:EK:278:ALA:C	2.53	0.47
41:EL:139:LEU:HB2	41:EL:170:VAL:HA	1.97	0.47
41:EL:285:THR:O	41:EL:286:VAL:C	2.52	0.47
41:EL:324:LYS:HG2	42:EM:222:PRO:HD2	1.97	0.47
42:FC:70:LEU:HD13	42:FC:99:ALA:H	1.79	0.47
42:FC:75:ILE:HA	42:FC:75:ILE:HD13	1.66	0.47
42:FC:140:SER:O	42:FC:142:GLY:N	2.48	0.47
42:FC:143:GLY:O	42:FC:147:SER:N	2.48	0.47
42:FC:205:ASP:HB2	42:FC:303:VAL:HA	1.95	0.47
41:FD:12:CYS:HB3	41:FD:138:SER:HB2	1.97	0.47
41:FD:12:CYS:SG	41:FD:138:SER:HB2	2.55	0.47
41:FD:260:PHE:O	41:FD:261:PRO:C	2.53	0.47
41:FD:271:ALA:HB2	41:FD:367:PHE:HZ	1.79	0.47
42:FE:3:GLU:HG3	42:FE:129:CYS:HB2	1.96	0.47
41:FF:2:ARG:HG2	41:FF:240:LEU:HD23	1.96	0.47
41:FF:152:ILE:HA	41:FF:164:MET:HE1	1.97	0.47
42:FG:53:PHE:HA	42:FG:63:PRO:HA	1.96	0.47
42:FI:8:HIS:CD2	42:FI:17:GLY:HA3	2.50	0.47
42:FI:259:LEU:HD21	42:FI:316:CYS:H	1.80	0.47
41:FL:222:TYR:HA	41:FL:225:LEU:HD12	1.97	0.47
41:FL:240:LEU:HD11	41:FL:249:ASP:HA	1.96	0.47
42:GC:235:VAL:O	42:GC:239:THR:OG1	2.28	0.47
42:GC:278:ALA:HA	42:GC:369:ALA:HB2	1.97	0.47
41:GF:258:VAL:HG23	42:GG:407:TRP:HE1	1.80	0.47
41:GH:255:VAL:HG23	42:GI:407:TRP:CD2	2.50	0.47
41:GH:325:GLU:HA	41:GH:328:GLU:HG3	1.96	0.47
42:GI:350:GLY:C	41:GJ:179:VAL:HG12	2.34	0.47
41:GJ:200:TYR:HE2	41:GJ:236:VAL:HG21	1.79	0.47
41:GJ:246:LEU:HD23	42:GK:179:THR:HG21	1.96	0.47
41:GJ:331:LEU:HB2	42:GK:177:VAL:CG1	2.44	0.47
42:GK:88:HIS:CE1	42:GK:90:GLU:HG3	2.50	0.47
41:GL:404:ASP:N	41:GL:407:GLU:OE2	2.48	0.47
42:GM:67:PHE:HB3	42:GM:75:ILE:HD11	1.97	0.47
42:GM:104:ALA:C	42:GM:106:GLY:H	2.18	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:GM:227:LEU:HG	45:GM:501:GTP:N2	2.26	0.47
41:HB:4:ILE:HA	41:HB:132:GLY:O	2.15	0.47
41:HB:5:VAL:HG22	41:HB:62:ARG:HD3	1.96	0.47
41:HB:388:MET:HG3	42:HM:348:PRO:HD2	1.96	0.47
42:HC:80:THR:HA	42:HC:84:ARG:HD3	1.96	0.47
42:HC:105:ARG:O	42:HC:110:ILE:HG22	2.14	0.47
42:HC:253:THR:CG2	41:HD:98:GLY:HA3	2.41	0.47
42:HC:286:LEU:HD13	42:HC:286:LEU:HA	1.73	0.47
41:HD:192:LEU:HG	41:HD:196:THR:HG21	1.97	0.47
41:HD:193:VAL:HA	41:HD:264:HIS:NE2	2.29	0.47
41:HF:330:MET:HB3	41:HF:349:VAL:HG21	1.97	0.47
42:HG:12:ALA:CB	42:HG:140:SER:HB3	2.44	0.47
41:HH:242:PHE:CD2	41:HH:356:ILE:HG21	2.49	0.47
41:HH:292:GLN:HG3	41:HH:298:ASN:HD22	1.80	0.47
42:HK:7:VAL:N	42:HK:136:LEU:O	2.37	0.47
42:HK:217:LEU:HB2	42:HK:275:VAL:HG12	1.95	0.47
42:HK:261:PRO:HA	41:HL:394:PHE:HD1	1.78	0.47
42:HM:27:GLU:HB3	42:HM:244:PHE:HZ	1.80	0.47
42:IC:367:ASP:N	42:IC:367:ASP:OD1	2.48	0.47
42:IG:3:GLU:HA	42:IG:51:THR:HA	1.97	0.47
42:IK:6:SER:HA	42:IK:136:LEU:HB2	1.95	0.47
42:IK:180:ALA:HB3	42:IK:183:GLU:HG3	1.95	0.47
42:IK:385:ALA:HA	42:IK:388:TRP:HB3	1.96	0.47
42:IM:236:SER:O	42:IM:243:ARG:NH2	2.48	0.47
41:IN:74:ASP:HA	41:IN:77:ARG:HB2	1.96	0.47
41:IN:328:GLU:O	41:IN:329:GLN:C	2.53	0.47
41:JD:61:PRO:HD3	41:JD:84:ILE:HG12	1.97	0.47
41:JD:325:GLU:HA	41:JD:328:GLU:HG2	1.96	0.47
42:JI:120:ASP:O	42:JI:124:LYS:HG2	2.13	0.47
42:JI:279:GLU:OE2	42:JI:283:HIS:NE2	2.45	0.47
42:JK:256:GLN:O	42:JK:260:VAL:HG13	2.15	0.47
41:JL:1:MET:HG3	42:JM:96:LYS:HG3	1.97	0.47
41:JL:46:ARG:HA	41:JL:46:ARG:HD3	1.49	0.47
42:JM:280:LYS:HE2	42:JM:280:LYS:HB2	1.41	0.47
42:JM:313:MET:HB3	42:JM:346:TRP:CH2	2.49	0.47
41:KD:19:LYS:HB2	41:KD:19:LYS:HE2	1.66	0.47
41:KD:129:CYS:HB2	42:KE:96:LYS:HD3	1.96	0.47
41:KF:257:MET:HA	41:KF:312:THR:HG21	1.96	0.47
41:KF:314:ALA:HB3	41:KF:368:ILE:HB	1.97	0.47
42:KG:329:ASN:ND2	41:KH:205:GLU:OE1	2.29	0.47
41:KH:326:VAL:O	41:KH:330:MET:HG2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:KI:70:LEU:HD12	42:KI:99:ALA:HB2	1.97	0.47
42:KI:279:GLU:OE1	42:KI:279:GLU:N	2.48	0.47
41:KJ:211:CYS:HA	41:KJ:215:LEU:HB2	1.95	0.47
41:KL:311:LEU:HD23	41:KL:342:VAL:HG11	1.95	0.47
41:KL:398:TYR:HB3	41:KL:403:MET:HE3	1.96	0.47
41:KN:308:GLY:HA3	41:KN:373:ALA:HB2	1.95	0.47
41:KN:313:VAL:HB	41:KN:349:VAL:HG22	1.97	0.47
41:LD:166:THR:HG23	41:LD:199:THR:HA	1.97	0.47
42:LE:172:TYR:HB2	42:LE:203:MET:HB3	1.97	0.47
42:LE:265:ILE:HG22	42:LE:380:ASN:HD21	1.80	0.47
42:LE:269:LEU:HD22	42:LE:303:VAL:HG11	1.95	0.47
41:LF:3:GLU:N	41:LF:3:GLU:OE1	2.48	0.47
42:LI:71:GLU:HB2	42:LI:98:ASP:HB3	1.97	0.47
41:LJ:52:ASN:OD1	41:LJ:62:ARG:NH1	2.46	0.47
41:LJ:246:LEU:HD21	42:LK:179:THR:HG21	1.97	0.47
42:LM:88:HIS:HD2	42:LM:89:PRO:HD2	1.78	0.47
41:LN:186:THR:HA	41:LN:415:MET:HE1	1.97	0.47
42:MC:238:ILE:HG23	42:MC:239:THR:HG23	1.96	0.47
41:MF:257:MET:HG3	41:MF:314:ALA:HB2	1.96	0.47
41:MF:358:PRO:HG2	41:MF:364:SER:HB3	1.96	0.47
42:MG:66:VAL:HG13	42:MG:121:ARG:HG2	1.97	0.47
42:MG:288:VAL:HG22	42:MG:323:VAL:HG12	1.96	0.47
42:MK:66:VAL:HG21	42:MK:122:ILE:HG22	1.96	0.47
41:ML:3:GLU:HG3	41:ML:49:VAL:HA	1.97	0.47
41:ML:136:THR:HG22	41:ML:167:PHE:HB2	1.96	0.47
42:MM:108:TYR:HA	42:MM:112:LYS:HG2	1.96	0.47
42:MM:189:LEU:HD11	42:MM:418:PHE:HD1	1.79	0.47
42:NA:143:GLY:HA3	45:NA:501:GTP:H5'	1.95	0.47
41:NB:58:LYS:HD3	41:NB:58:LYS:HA	1.53	0.47
41:NB:320:ARG:HD2	41:NB:320:ARG:HA	1.50	0.47
41:NB:324:LYS:HD3	42:NC:221:ARG:N	2.29	0.47
42:NC:248:LEU:HD23	42:NC:248:LEU:HA	1.71	0.47
42:NC:261:PRO:O	41:ND:396:HIS:NE2	2.47	0.47
42:NC:262:TYR:HE2	41:ND:391:ARG:O	1.96	0.47
42:NC:305:CYS:O	42:NC:306:ASP:C	2.53	0.47
42:NC:435:VAL:HA	41:ND:391:ARG:NH2	2.30	0.47
41:ND:354:CYS:SG	41:ND:355:ASP:N	2.87	0.47
41:NF:151:LEU:HD12	41:NF:151:LEU:HA	1.72	0.47
41:NF:312:THR:HG22	42:NG:181:VAL:HG21	1.94	0.47
42:NG:291:ILE:HG23	42:NG:375:VAL:CG1	2.44	0.47
41:NH:354:CYS:SG	41:NH:354:CYS:O	2.73	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:NI:252:LEU:HA	42:NI:255:PHE:HD2	1.80	0.47
42:NK:82:THR:O	42:NK:84:ARG:N	2.47	0.47
41:OB:7:LEU:O	41:OB:135:LEU:HA	2.15	0.47
41:OB:121:ARG:O	41:OB:123:GLU:N	2.47	0.47
41:OB:207:LEU:HD13	41:OB:207:LEU:HA	1.79	0.47
41:OB:246:LEU:HD13	42:OC:179:THR:HG21	1.97	0.47
41:OB:334:GLN:HA	41:OB:341:PHE:CE2	2.50	0.47
42:OC:54:SER:HB3	42:OC:62:VAL:HG13	1.95	0.47
42:OE:385:ALA:HA	42:OE:388:TRP:HD1	1.79	0.47
42:OI:10:GLY:HA2	42:OI:145:THR:HB	1.96	0.47
41:OJ:344:TRP:CZ2	41:OJ:425:TYR:HB3	2.50	0.47
42:PA:311:LYS:HE3	42:PA:311:LYS:HB3	1.70	0.47
42:PA:324:VAL:O	42:PA:325:PRO:C	2.53	0.47
42:PC:70:LEU:HB3	42:PC:97:GLU:O	2.15	0.47
41:PD:163:ILE:HD11	41:PD:251:ARG:HG3	1.97	0.47
41:PD:391:ARG:O	41:PD:392:LYS:C	2.53	0.47
42:PE:16:ILE:HA	42:PE:228:ASN:HB3	1.95	0.47
42:PE:274:PRO:O	42:PE:275:VAL:C	2.53	0.47
41:PF:379:LYS:HA	41:PF:379:LYS:HD2	1.48	0.47
42:PG:21:TRP:CD1	42:PG:67:PHE:HZ	2.33	0.47
42:PG:261:PRO:HB2	42:PG:262:TYR:H	1.54	0.47
41:PH:84:ILE:O	41:PH:85:PHE:C	2.53	0.47
41:PH:311:LEU:O	41:PH:345:ILE:HD13	2.15	0.47
41:PH:325:GLU:O	41:PH:329:GLN:HG3	2.14	0.47
41:PH:327:ASP:O	41:PH:330:MET:N	2.47	0.47
41:PH:338:SER:OG	41:PH:339:SER:N	2.46	0.47
41:PH:347:ASN:ND2	42:PI:179:THR:O	2.46	0.47
42:PI:195:LEU:HD11	42:PI:428:LEU:HD13	1.95	0.47
42:PI:279:GLU:C	42:PI:281:ALA:N	2.68	0.47
41:PJ:362:LYS:HG3	41:PJ:363:MET:N	2.29	0.47
41:PJ:385:PHE:O	41:PJ:386:THR:C	2.51	0.47
41:PL:6:HIS:HA	41:PL:134:GLN:HG2	1.97	0.47
41:QB:15:GLN:O	41:QB:226:ASN:ND2	2.47	0.47
41:QB:418:LEU:HA	41:QB:421:GLU:HG3	1.97	0.47
42:QC:115:ILE:HD13	42:QC:156:ARG:HD3	1.97	0.47
41:QD:165:ASN:HD22	41:QD:250:LEU:HD13	1.80	0.47
42:QG:271:THR:HG22	42:QG:301:GLN:HA	1.97	0.47
42:QG:301:GLN:HG3	42:QG:303:VAL:H	1.80	0.47
41:QH:42:LEU:HB2	41:QH:356:ILE:HD11	1.97	0.47
41:QH:81:PHE:O	41:QH:84:ILE:HG12	2.15	0.47
41:QH:210:ILE:HG23	41:QH:213:ARG:HH11	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:QL:197:ASP:O	41:QL:264:HIS:HB2	2.14	0.47
41:QL:296:ALA:O	41:QL:297:LYS:C	2.53	0.47
41:RD:7:LEU:HD13	41:RD:7:LEU:HA	1.74	0.47
41:RD:130:LEU:O	41:RD:131:GLN:C	2.53	0.47
41:RD:131:GLN:HE22	41:RD:250:LEU:HB2	1.80	0.47
41:RD:348:ASN:HA	42:RE:181:VAL:HG21	1.97	0.47
41:RF:21:TRP:NE1	41:RF:61:PRO:HB2	2.30	0.47
41:RF:113:VAL:O	41:RF:114:ASP:C	2.53	0.47
41:RF:375:GLN:HA	41:RF:378:PHE:CE1	2.49	0.47
42:RG:390:ARG:O	42:RG:393:HIS:ND1	2.48	0.47
42:RI:24:TYR:CZ	42:RI:52:PHE:HE2	2.32	0.47
41:RJ:5:VAL:HG22	41:RJ:62:ARG:HG2	1.97	0.47
41:RJ:43:GLN:HA	41:RJ:242:PHE:HE1	1.79	0.47
42:RK:66:VAL:HG22	42:RK:121:ARG:NH1	2.30	0.47
42:RK:298:PRO:HA	42:RK:301:GLN:HG2	1.97	0.47
42:SC:261:PRO:HD2	42:SC:265:ILE:HG23	1.96	0.47
42:SC:262:TYR:HB2	42:SC:265:ILE:HG22	1.97	0.47
42:SG:352:LYS:HB2	41:SH:179:VAL:HG23	1.96	0.47
41:SH:61:PRO:HD3	41:SH:84:ILE:HG22	1.97	0.47
41:SH:94:GLN:OE1	41:SH:94:GLN:N	2.48	0.47
42:SI:220:GLU:O	42:SI:221:ARG:C	2.51	0.47
41:SJ:47:ILE:HG23	41:SJ:51:TYR:CD1	2.50	0.47
41:SJ:237:THR:HG23	41:SJ:241:ARG:HE	1.80	0.47
41:SJ:342:VAL:HB	41:SJ:344:TRP:CD1	2.49	0.47
41:SL:12:CYS:HB2	43:SL:501:GDP:C8	2.49	0.47
42:SM:237:SER:HA	42:SM:320:ARG:HH11	1.79	0.47
42:SM:272:TYR:HE1	42:SM:368:LEU:HD23	1.80	0.47
42:TE:308:ARG:HB2	42:TE:309:HIS:HD2	1.80	0.47
42:TI:90:GLU:HG3	42:TI:121:ARG:NH1	2.30	0.47
42:TI:166:LYS:HE2	42:TI:166:LYS:HB2	1.55	0.47
42:TI:180:ALA:O	42:TI:183:GLU:HB2	2.14	0.47
42:TI:240:ALA:O	42:TI:241:SER:C	2.53	0.47
42:TI:286:LEU:O	42:TI:287:SER:C	2.53	0.47
41:TJ:139:LEU:HD21	41:TJ:192:LEU:HD22	1.97	0.47
41:TJ:334:GLN:NE2	41:TJ:348:ASN:O	2.48	0.47
42:TK:17:GLY:HA2	42:TK:20:CYS:HB3	1.96	0.47
42:TK:348:PRO:O	42:TK:349:THR:C	2.53	0.47
41:TL:31:ASP:HB3	41:TL:37:HIS:CD2	2.50	0.47
42:TM:195:LEU:HD23	42:TM:428:LEU:HD12	1.96	0.47
42:UC:72:PRO:HA	42:UC:94:THR:OG1	2.15	0.47
42:UC:190:THR:OG1	42:UC:191:THR:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:UC:337:THR:O	42:UC:338:LYS:C	2.53	0.47
41:UD:26:ASP:N	41:UD:26:ASP:OD1	2.48	0.47
41:UD:316:VAL:HA	41:UD:352:ALA:HB3	1.95	0.47
42:UE:256:GLN:HB3	41:UF:397:TRP:CZ2	2.49	0.47
41:UF:317:PHE:N	41:UF:352:ALA:O	2.48	0.47
42:UG:262:TYR:HB2	42:UG:265:ILE:HD13	1.95	0.47
41:UH:272:PRO:HA	41:UH:282:ARG:HH22	1.80	0.47
42:UI:3:GLU:HA	42:UI:51:THR:HG23	1.97	0.47
42:UI:228:ASN:OD1	45:UI:501:GTP:N1	2.40	0.47
41:UJ:256:ASN:HD22	42:UK:181:VAL:H	1.63	0.47
41:UL:121:ARG:NH1	41:UL:158:GLU:OE2	2.41	0.47
42:VE:139:HIS:CD2	42:VE:168:GLU:OE2	2.68	0.47
42:VG:202:PHE:CE2	42:VG:378:LEU:HD13	2.49	0.47
42:VG:265:ILE:HG23	42:VG:432:TYR:HE1	1.79	0.47
41:VJ:31:ASP:OD1	41:VJ:37:HIS:ND1	2.47	0.47
42:VK:91:GLN:HG2	42:VK:121:ARG:HH22	1.80	0.47
41:VL:139:LEU:HD12	41:VL:170:VAL:HG12	1.97	0.47
41:VL:287:PRO:HA	41:VL:329:GLN:OE1	2.14	0.47
42:WE:208:ALA:O	42:WE:212:ILE:HG12	2.13	0.47
41:WF:398:TYR:HB3	41:WF:408:PHE:CZ	2.42	0.47
41:WH:102:ALA:HA	41:WH:106:TYR:HD2	1.80	0.47
42:WI:26:LEU:HD12	42:WI:363:VAL:HG12	1.97	0.47
42:WI:212:ILE:HG13	42:WI:215:ARG:HH21	1.78	0.47
41:WJ:309:ARG:NH1	41:WJ:426:GLN:O	2.47	0.47
42:WK:17:GLY:HA2	42:WK:20:CYS:HB3	1.97	0.47
42:WM:310:GLY:HA3	42:WM:383:ALA:HB2	1.96	0.47
41:WN:139:LEU:HB2	41:WN:168:SER:HB2	1.97	0.47
20:3O:245:THR:OG1	20:3O:267:ARG:NE	2.47	0.47
20:3P:440:ILE:HD12	20:3P:449:ILE:HD11	1.96	0.47
27:4O:195:PRO:HG2	41:AB:417:ASP:HB2	1.97	0.47
27:4O:220:ASN:ND2	27:4O:223:ASP:OD2	2.48	0.47
27:4R:184:GLU:H	27:4R:184:GLU:HG2	1.57	0.47
27:4R:197:LEU:HD22	27:4R:225:ILE:HD13	1.95	0.47
29:4Y:29:ASN:O	29:4Y:32:ASN:ND2	2.48	0.47
31:5D:15:LYS:O	31:5D:19:PHE:N	2.42	0.47
33:5W:249:GLU:OE2	34:6B:320:LYS:NZ	2.37	0.47
34:6K:200:PHE:O	34:6K:204:LYS:NZ	2.47	0.47
34:6M:201:HIS:O	34:6M:204:LYS:HG2	2.15	0.47
37:7C:139:PRO:HA	42:SK:123:ARG:CZ	2.45	0.47
41:AB:143:THR:HG21	41:AB:147:MET:HG2	1.97	0.47
41:AD:128:ASP:N	41:AD:128:ASP:OD1	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:AH:97:ALA:O	41:AH:99:ASN:N	2.48	0.47
41:AH:328:GLU:HG2	41:AH:329:GLN:N	2.29	0.47
42:AK:183:GLU:N	42:AK:184:PRO:HD2	2.30	0.47
42:AK:336:LYS:HE3	42:AK:336:LYS:HB2	1.49	0.47
41:BH:305:PRO:HB3	41:BH:310:TYR:HE1	1.80	0.47
42:BI:384:ILE:HD12	42:BI:384:ILE:HA	1.82	0.47
42:CC:12:ALA:O	42:CC:15:GLN:N	2.48	0.47
41:CF:254:ALA:C	41:CF:256:ASN:H	2.17	0.47
41:CJ:31:ASP:C	41:CJ:33:THR:H	2.18	0.47
41:CJ:362:LYS:HB2	41:CJ:362:LYS:HE2	1.50	0.47
41:CL:180:VAL:HG22	41:CL:183:TYR:HB2	1.96	0.47
42:CM:5:ILE:HD13	42:CM:64:ARG:HG2	1.97	0.47
42:CM:56:THR:OG1	42:CM:59:GLY:O	2.28	0.47
41:DB:46:ARG:NH2	42:DC:76:ASP:OD2	2.48	0.47
41:DH:12:CYS:SG	41:DH:169:VAL:HG21	2.55	0.47
41:DJ:254:ALA:O	41:DJ:257:MET:N	2.36	0.47
42:DK:59:GLY:O	42:DK:61:HIS:N	2.48	0.47
42:DK:177:VAL:O	42:DK:178:SER:C	2.53	0.47
42:DK:234:ILE:HG23	42:DK:376:CYS:SG	2.55	0.47
41:DL:200:TYR:CE1	41:DL:368:ILE:HG23	2.50	0.47
42:EC:103:TYR:CE2	42:EC:189:LEU:HD22	2.49	0.47
42:EC:140:SER:HA	42:EC:171:ILE:H	1.80	0.47
41:EF:131:GLN:HA	41:EF:251:ARG:HH12	1.80	0.47
42:EI:171:ILE:HG22	42:EI:205:ASP:HA	1.97	0.47
42:EK:138:PHE:CE2	42:EK:235:VAL:HG21	2.50	0.47
42:EK:371:VAL:HG22	42:EK:373:ARG:H	1.79	0.47
42:FC:229:ARG:HE	42:FC:229:ARG:HB2	1.50	0.47
42:FE:14:VAL:HG22	42:FE:67:PHE:HD1	1.80	0.47
41:FF:389:PHE:HE1	41:FF:405:GLU:HB2	1.78	0.47
42:FI:66:VAL:HG11	42:FI:118:VAL:HG23	1.95	0.47
42:FM:52:PHE:HE2	42:FM:243:ARG:HE	1.63	0.47
41:GJ:292:GLN:O	41:GJ:293:MET:C	2.52	0.47
42:GM:56:THR:OG1	42:GM:57:GLY:N	2.48	0.47
41:HF:24:ILE:HG21	41:HF:50:TYR:HD2	1.79	0.47
42:HG:63:PRO:HD3	42:HG:86:LEU:HG	1.96	0.47
41:HH:19:LYS:HZ2	41:HH:227:HIS:CG	2.32	0.47
41:HH:356:ILE:HD12	41:HH:357:PRO:HD2	1.96	0.47
41:HH:358:PRO:HB2	41:HH:361:LEU:HB2	1.97	0.47
41:HJ:361:LEU:O	41:HJ:362:LYS:C	2.53	0.47
42:HK:261:PRO:HA	41:HL:394:PHE:CD1	2.50	0.47
42:HK:277:SER:OG	42:HK:278:ALA:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:HL:8:GLN:HG2	41:HL:17:GLY:HA3	1.96	0.47
41:ID:51:TYR:CD2	41:ID:59:TYR:HB3	2.50	0.47
41:IH:347:ASN:HD21	42:II:184:PRO:HD3	1.80	0.47
41:JD:172:SER:OG	41:JD:175:VAL:O	2.22	0.47
41:JD:294:PHE:CE2	41:JD:313:VAL:HG11	2.48	0.47
42:JG:245:ASP:OD1	42:JG:246:GLY:N	2.47	0.47
41:JH:9:ALA:HB3	41:JH:137:HIS:HB3	1.96	0.47
41:JL:314:ALA:HB3	41:JL:368:ILE:HB	1.97	0.47
41:KD:72:THR:O	41:KD:74:ASP:N	2.47	0.47
41:KN:279:GLN:OE1	41:KN:282:ARG:NH1	2.39	0.47
41:LH:184:ASN:OD1	41:LH:398:TYR:OH	2.30	0.47
42:LM:213:CYS:HA	42:LM:217:LEU:HD13	1.97	0.47
41:LN:337:ASN:HB3	41:LN:340:TYR:HD2	1.80	0.47
41:MD:183:TYR:CE2	41:MD:388:MET:HB2	2.50	0.47
41:MF:260:PHE:CZ	41:MF:263:LEU:HB2	2.50	0.47
42:MG:422:ARG:HH12	42:MG:426:ALA:HB2	1.80	0.47
42:NC:6:SER:O	42:NC:65:ALA:HA	2.15	0.47
41:ND:310:TYR:HA	41:ND:371:SER:HA	1.97	0.47
42:NE:53:PHE:O	42:NE:64:ARG:NH1	2.47	0.47
41:NF:46:ARG:HB2	41:NF:241:ARG:HA	1.97	0.47
42:NG:60:LYS:HZ3	42:OG:283:HIS:HB3	1.80	0.47
42:NI:317:LEU:HD22	42:NI:375:VAL:HG12	1.95	0.47
42:NK:102:ASN:O	42:NK:105:ARG:N	2.44	0.47
42:NK:246:GLY:HA3	42:NK:356:ASN:HA	1.97	0.47
41:NL:420:SER:O	41:NL:424:GLN:HG3	2.14	0.47
42:OA:325:PRO:HD2	41:OB:221:THR:HA	1.96	0.47
41:OB:76:VAL:O	41:OB:77:ARG:C	2.53	0.47
41:OD:334:GLN:NE2	42:OE:176:GLN:OE1	2.42	0.47
42:OE:136:LEU:HD11	42:OE:239:THR:HG21	1.97	0.47
42:OE:144:GLY:O	42:OE:148:GLY:N	2.48	0.47
42:OE:269:LEU:HD21	42:OE:384:ILE:HD13	1.97	0.47
41:OH:12:CYS:HB3	41:OH:138:SER:HB2	1.97	0.47
42:OK:115:ILE:HA	42:OK:118:VAL:HG22	1.96	0.47
42:OK:199:ASP:OD1	42:OK:200:CYS:N	2.45	0.47
41:OL:260:PHE:HB2	41:OL:263:LEU:HG	1.96	0.47
42:PA:204:VAL:HG12	42:PA:302:MET:HB3	1.95	0.47
42:PG:185:TYR:O	42:PG:187:SER:N	2.43	0.47
42:PG:258:ASN:CG	41:PH:179:VAL:H	2.18	0.47
41:PH:127:CYS:SG	41:PH:130:LEU:N	2.81	0.47
42:PI:279:GLU:O	42:PI:281:ALA:N	2.47	0.47
42:PK:60:LYS:HE2	42:PK:86:LEU:HA	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:PK:217:LEU:HD11	42:PK:368:LEU:HD13	1.97	0.47
42:PK:351:PHE:N	41:PL:179:VAL:HG12	2.30	0.47
41:QB:324:LYS:HB2	42:QC:222:PRO:HD2	1.95	0.47
42:QG:79:ARG:NH2	42:QG:94:THR:OG1	2.46	0.47
41:QH:320:ARG:H	41:QH:320:ARG:HG2	1.40	0.47
42:QI:320:ARG:HG3	42:QI:360:PRO:HD3	1.96	0.47
41:RB:135:LEU:N	41:RB:165:ASN:O	2.46	0.47
41:RD:228:LEU:HD11	41:RD:273:LEU:HD21	1.97	0.47
42:RE:176:GLN:OE1	42:RE:176:GLN:N	2.47	0.47
42:RI:188:ILE:HG13	42:RI:395:PHE:HB2	1.96	0.47
42:RI:240:ALA:O	42:RI:356:ASN:ND2	2.48	0.47
41:RJ:332:ASN:O	41:RJ:336:LYS:N	2.48	0.47
41:SD:255:VAL:HG23	42:SE:407:TRP:CD1	2.50	0.47
42:SE:51:THR:HG21	42:SE:243:ARG:HB3	1.97	0.47
42:SE:288:VAL:O	42:SE:291:ILE:HG22	2.15	0.47
42:SG:3:GLU:HA	42:SG:51:THR:HA	1.97	0.47
42:SG:169:PHE:HZ	42:SG:238:ILE:HG21	1.80	0.47
41:SL:86:ARG:HG3	41:TL:281:TYR:HB2	1.96	0.47
42:TE:257:THR:HA	41:TF:397:TRP:CD1	2.49	0.47
41:TF:247:ASN:ND2	42:TG:71:GLU:OE2	2.39	0.47
42:TI:14:VAL:HG12	42:TI:67:PHE:HB3	1.95	0.47
42:TK:197:HIS:O	42:TK:198:SER:C	2.52	0.47
41:TL:4:ILE:HD11	41:TL:240:LEU:HD21	1.97	0.47
42:TM:56:THR:HG23	42:TM:58:ALA:H	1.80	0.47
42:UC:221:ARG:HD2	42:UC:221:ARG:HA	1.56	0.47
42:UE:178:SER:OG	42:UE:183:GLU:OE1	2.25	0.47
41:UF:196:THR:OG1	41:UF:199:THR:OG1	2.27	0.47
41:UH:102:ALA:HB1	41:UH:106:TYR:HB2	1.96	0.47
41:UJ:256:ASN:HB2	41:UJ:350:LYS:NZ	2.29	0.47
42:UM:239:THR:HG22	42:UM:252:LEU:HD21	1.96	0.47
42:VG:36:MET:HB2	42:VG:61:HIS:NE2	2.30	0.47
42:VG:109:THR:O	42:VG:112:LYS:N	2.39	0.47
41:VH:25:SER:O	41:VH:29:GLY:N	2.48	0.47
41:VJ:7:LEU:HG	41:VJ:135:LEU:HD13	1.96	0.47
41:VJ:28:HIS:NE2	41:VJ:241:ARG:HD2	2.30	0.47
41:VJ:424:GLN:HG2	41:VJ:425:TYR:CE1	2.50	0.47
42:VK:264:ARG:HE	42:VK:264:ARG:HB3	1.57	0.47
41:WD:420:SER:O	41:WD:424:GLN:HG3	2.14	0.47
41:WF:174:LYS:HB3	41:WF:174:LYS:HE2	1.43	0.47
42:WI:81:GLY:H	42:WI:84:ARG:HG2	1.79	0.47
41:WJ:22:GLU:HG2	41:WJ:81:PHE:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:WK:346:TRP:CD1	41:WL:391:ARG:HD3	2.50	0.47
41:WL:193:VAL:HG12	41:WL:265:PHE:CE2	2.50	0.47
19:3J:416:GLU:HG2	42:EC:370:LYS:HE2	1.97	0.47
19:3K:182:ARG:NH2	19:3K:205:GLU:OE2	2.48	0.47
19:3K:266:TYR:HE1	19:3K:268:LEU:HD23	1.79	0.47
20:3N:11:HIS:C	41:KD:72:THR:HG22	2.35	0.47
22:3Y:87:SER:HA	42:AE:84:ARG:NH1	2.24	0.47
27:4R:45:LYS:C	27:4R:47:MET:N	2.67	0.47
32:5O:268:LEU:HD13	32:5O:272:LYS:HD3	1.96	0.47
33:5Q:11:ARG:HH21	33:5R:130:LYS:HB3	1.79	0.47
33:5S:161:LYS:HE3	33:5S:235:LYS:HB3	1.97	0.47
33:5T:68:ILE:HD13	33:5T:68:ILE:HA	1.71	0.47
33:5T:114:ILE:HD12	33:5T:114:ILE:HA	1.67	0.47
33:5V:107:ASN:OD1	33:5V:108:LEU:N	2.47	0.47
33:5W:28:ALA:O	33:5W:32:ARG:N	2.48	0.47
33:5W:417:ARG:HD3	34:6B:248:ARG:HE	1.80	0.47
34:6A:153:ILE:HG23	34:6A:261:LYS:HG3	1.97	0.47
34:6F:399:ARG:HG2	34:6G:271:CYS:HB3	1.95	0.47
34:6K:66:ASP:HB2	35:6Q:256:THR:HB	1.95	0.47
35:6Q:360:ARG:NH2	35:6Q:371:ASP:OD2	2.44	0.47
35:6R:312:GLU:HG2	35:6R:316:HIS:CE1	2.50	0.47
35:6S:156:LEU:C	35:6S:158:CYS:H	2.18	0.47
35:6V:368:LEU:O	35:6W:251:ALA:HB3	2.14	0.47
38:7H:159:PRO:HA	42:HE:123:ARG:NH2	2.30	0.47
42:AK:280:LYS:CB	42:KM:88:HIS:HE1	2.28	0.47
41:AL:39:ASP:O	41:AL:40:SER:C	2.52	0.47
42:BC:257:THR:HG21	41:BD:99:ASN:HB2	1.96	0.47
41:BD:174:LYS:HD3	41:BD:174:LYS:HA	1.41	0.47
42:BE:168:GLU:HB2	42:BE:201:ALA:HA	1.97	0.47
41:BF:392:LYS:HG2	41:BF:395:LEU:HD12	1.95	0.47
42:BG:326:LYS:NZ	41:BH:219:THR:HA	2.30	0.47
41:BJ:309:ARG:HH22	41:BJ:343:GLU:HG3	1.80	0.47
42:BK:71:GLU:HG2	42:BK:73:THR:HG22	1.96	0.47
42:BK:74:VAL:HG13	42:BK:75:ILE:HG13	1.95	0.47
41:CB:252:LYS:HB2	42:CC:100:ALA:HA	1.97	0.47
42:CC:285:GLN:O	42:CC:287:SER:N	2.48	0.47
41:CD:42:LEU:HD11	41:CD:243:PRO:HG2	1.96	0.47
41:CD:313:VAL:HG12	41:CD:349:VAL:HG13	1.97	0.47
41:CF:47:ILE:HG21	41:CF:59:TYR:HE1	1.80	0.47
42:CG:273:ALA:HB3	42:CG:274:PRO:HD3	1.97	0.47
42:CG:339:ARG:O	42:CG:340:THR:C	2.53	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:CH:256:ASN:OD1	42:CI:181:VAL:HG12	2.15	0.47
41:CJ:42:LEU:HG	41:CJ:243:PRO:HG2	1.95	0.47
41:CL:67:ASP:HA	41:CL:143:THR:HG21	1.97	0.47
41:DB:292:GLN:HG3	41:DB:298:ASN:ND2	2.30	0.47
42:DC:425:MET:O	42:DC:429:GLU:N	2.32	0.47
42:DG:76:ASP:HA	42:DG:79:ARG:HD2	1.97	0.47
42:DG:301:GLN:HE21	42:DG:307:PRO:HG3	1.80	0.47
41:DH:171:PRO:O	41:DH:173:PRO:N	2.48	0.47
42:DI:346:TRP:NE1	41:DJ:391:ARG:HB2	2.30	0.47
41:DJ:47:ILE:HG21	41:DJ:59:TYR:CE1	2.50	0.47
41:DJ:156:ARG:HD2	41:DJ:156:ARG:HA	1.68	0.47
41:DL:347:ASN:O	42:DM:181:VAL:HG23	2.13	0.47
41:ED:214:THR:O	41:ED:216:LYS:N	2.48	0.47
42:EE:287:SER:O	42:EE:291:ILE:HG12	2.15	0.47
41:EH:177:ASP:OD2	43:EH:501:GDP:O3'	2.33	0.47
42:EI:307:PRO:HB2	42:EI:312:TYR:CE1	2.50	0.47
42:EK:167:LEU:HG	42:EK:200:CYS:HB2	1.97	0.47
41:EL:324:LYS:HZ3	42:EM:210:TYR:CB	2.27	0.47
42:EM:183:GLU:HB3	42:EM:184:PRO:HD3	1.97	0.47
42:EM:258:ASN:HB2	42:EM:352:LYS:HG3	1.97	0.47
42:EM:298:PRO:HB3	42:EM:308:ARG:NH1	2.30	0.47
42:FC:389:ALA:O	42:FC:390:ARG:C	2.53	0.47
41:FF:336:LYS:HE2	41:FF:336:LYS:HB2	1.48	0.47
42:FI:122:ILE:HD13	42:FI:157:LEU:HD21	1.96	0.47
42:FI:170:SER:N	42:FI:202:PHE:O	2.46	0.47
42:GC:167:LEU:HG	42:GC:252:LEU:HD21	1.97	0.47
42:GE:270:ALA:HA	42:GE:378:LEU:HD13	1.97	0.47
41:GH:39:ASP:OD1	41:GH:40:SER:N	2.48	0.47
41:GJ:347:ASN:HD22	42:GK:181:VAL:HA	1.79	0.47
41:HB:27:GLU:HA	41:HB:359:ARG:HH11	1.79	0.47
41:HD:86:ARG:HA	41:ID:281:TYR:HD1	1.80	0.47
42:HG:66:VAL:HG21	42:HG:122:ILE:HG12	1.97	0.47
41:HL:239:CYS:HB3	41:HL:248:ALA:H	1.79	0.47
41:HL:258:VAL:HG22	41:HL:266:PHE:HZ	1.80	0.47
42:IE:89:PRO:HD3	41:JD:281:TYR:CE2	2.50	0.47
41:IF:11:GLN:HE22	43:IF:501:GDP:H8	1.62	0.47
41:IF:189:VAL:HA	41:IF:192:LEU:HB2	1.97	0.47
41:IF:242:PHE:HB3	41:IF:356:ILE:HD13	1.97	0.47
42:II:151:SER:HA	42:II:193:THR:HG21	1.96	0.47
41:IL:177:ASP:OD1	43:IL:501:GDP:O3'	2.33	0.47
42:IM:175:PRO:HB3	42:IM:390:ARG:HD3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:IN:269:GLY:HA3	41:IN:367:PHE:CE2	2.50	0.47
41:JH:136:THR:HG22	41:JH:167:PHE:HB2	1.95	0.47
42:JK:75:ILE:CD1	42:JK:94:THR:HB	2.44	0.47
41:KF:376:GLU:HA	41:KF:379:LYS:HG2	1.97	0.47
41:KN:156:ARG:HH21	41:KN:164:MET:HB3	1.80	0.47
41:KN:326:VAL:HA	41:KN:329:GLN:HB3	1.96	0.47
42:LC:9:VAL:HG12	42:LC:68:VAL:HG13	1.95	0.47
41:LN:272:PRO:HG3	41:LN:364:SER:HA	1.95	0.47
42:MC:273:ALA:HB1	42:MC:294:ALA:HB3	1.96	0.47
41:MD:170:VAL:HG11	41:MD:377:LEU:CG	2.45	0.47
42:MI:271:THR:HG21	42:MI:295:CYS:HA	1.96	0.47
42:NA:157:LEU:HD12	42:NA:157:LEU:HA	1.78	0.47
41:ND:113:VAL:HG23	41:ND:117:LEU:HD23	1.97	0.47
41:NF:331:LEU:HG	41:NF:335:ASN:HD21	1.80	0.47
41:NH:403:MET:HB3	41:NH:404:ASP:H	1.63	0.47
42:NI:358:GLN:H	42:NI:358:GLN:HG3	1.58	0.47
42:NI:436:GLY:O	42:NI:437:MET:C	2.52	0.47
41:NJ:24:ILE:HG22	41:NJ:28:HIS:HE1	1.79	0.47
41:NJ:63:ALA:O	41:NJ:89:ASN:ND2	2.48	0.47
42:NK:84:ARG:O	42:NK:85:GLN:C	2.53	0.47
42:NK:347:CYS:O	42:NK:347:CYS:SG	2.73	0.47
42:OG:163:LYS:O	42:OG:164:LYS:C	2.53	0.47
42:OK:298:PRO:HG3	42:OK:308:ARG:HH12	1.80	0.47
41:PB:343:GLU:O	41:PB:345:ILE:HG22	2.14	0.47
42:PC:70:LEU:HD11	42:PC:110:ILE:HG12	1.97	0.47
41:PD:325:GLU:O	41:PD:326:VAL:C	2.52	0.47
42:PE:14:VAL:HG13	42:PE:67:PHE:HD1	1.80	0.47
42:PE:26:LEU:HA	42:PE:29:GLY:HA2	1.97	0.47
42:PE:149:PHE:CD2	42:PE:149:PHE:C	2.88	0.47
42:PG:146:GLY:O	42:PG:147:SER:C	2.52	0.47
42:PG:195:LEU:HD13	42:PG:428:LEU:HD11	1.95	0.47
41:PJ:80:PRO:O	41:PJ:81:PHE:C	2.53	0.47
42:PK:437:MET:HE3	42:PK:437:MET:HB3	1.80	0.47
41:PL:60:VAL:HG22	41:PL:61:PRO:HD2	1.96	0.47
41:QF:104:GLY:HA2	41:QF:109:GLY:HA3	1.97	0.47
41:QF:372:THR:HG21	41:QF:426:GLN:HB2	1.96	0.47
42:QI:130:THR:O	42:QI:132:LEU:N	2.47	0.47
41:QJ:8:GLN:O	41:QJ:65:LEU:HA	2.15	0.47
42:QK:388:TRP:HA	42:QK:391:LEU:HB3	1.97	0.47
41:RB:207:LEU:HD23	41:RB:225:LEU:HB2	1.97	0.47
41:RD:242:PHE:HB3	41:RD:356:ILE:HD13	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:RE:238:ILE:HD11	42:RE:378:LEU:HD21	1.97	0.47
41:RH:112:LEU:HD23	41:RH:147:MET:SD	2.55	0.47
42:RI:175:PRO:O	42:RI:177:VAL:N	2.48	0.47
42:RI:388:TRP:O	42:RI:392:ASP:N	2.43	0.47
41:RJ:181:GLU:O	41:RJ:182:PRO:C	2.51	0.47
41:RL:167:PHE:CD2	41:RL:233:MET:HG3	2.50	0.47
41:SH:30:ILE:HG13	41:SH:51:TYR:CZ	2.50	0.47
41:SL:9:ALA:HA	41:SL:66:VAL:O	2.15	0.47
41:SL:298:ASN:O	41:SL:300:MET:N	2.48	0.47
41:TD:148:GLY:O	41:TD:152:ILE:HG12	2.14	0.47
42:TG:171:ILE:HG12	45:TG:501:GTP:HN22	1.80	0.47
41:TJ:143:THR:OG1	43:TJ:501:GDP:O2B	2.25	0.47
42:TK:295:CYS:HB3	42:TK:377:MET:SD	2.55	0.47
41:TL:99:ASN:O	41:TL:184:ASN:ND2	2.48	0.47
42:UE:65:ALA:HB3	42:UE:91:GLN:HE21	1.79	0.47
42:VC:328:VAL:HG11	42:VC:353:VAL:HG11	1.96	0.47
41:VD:342:VAL:HB	41:VD:344:TRP:CD1	2.49	0.47
42:VE:319:TYR:HB3	42:VE:323:VAL:HG21	1.96	0.47
41:VH:267:MET:HB2	41:VH:374:ILE:HD11	1.97	0.47
41:VJ:350:LYS:HD2	42:VK:179:THR:O	2.15	0.47
42:WI:1:MET:SD	41:WJ:94:GLN:NE2	2.88	0.47
41:WJ:21:TRP:HA	41:WJ:24:ILE:HG22	1.97	0.47
42:WM:325:PRO:HD2	41:WN:221:THR:HA	1.97	0.47
42:WM:371:VAL:HG12	42:WM:373:ARG:H	1.80	0.47
41:WN:287:PRO:HA	41:WN:290:THR:HG22	1.96	0.47
2:1E:103:VAL:HG13	26:4L:164:LEU:HD22	1.96	0.47
14:2X:224:LEU:HB3	41:MJ:160:PRO:HB3	1.97	0.47
19:3K:139:GLU:O	41:BH:218:THR:OG1	2.28	0.47
22:3Z:93:THR:OG1	42:AI:72:PRO:HB2	2.15	0.47
23:4D:41:PRO:HB2	23:4D:42:LEU:HD12	1.96	0.47
24:4G:168:ARG:HE	24:4G:169:LEU:HD22	1.79	0.47
27:4R:213:TYR:CE1	41:WJ:122:LYS:HG2	2.50	0.47
27:4T:96:TRP:NE1	27:4T:133:ASP:OD2	2.45	0.47
30:5A:29:ILE:HG23	30:5A:36:ILE:HG22	1.97	0.47
33:5T:290:ILE:HG12	33:5T:366:LEU:HB3	1.96	0.47
34:6A:126:ARG:C	34:6A:128:ILE:N	2.69	0.47
34:6B:429:ASP:O	34:6B:430:THR:C	2.53	0.47
34:6C:296:VAL:O	34:6C:297:PRO:C	2.53	0.47
34:6E:400:LEU:HD13	34:6E:420:LEU:HD12	1.97	0.47
34:6H:256:LYS:HZ1	34:6M:204:LYS:HA	1.80	0.47
34:6H:315:ARG:O	34:6H:319:ALA:N	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:6L:403:ARG:CZ	34:6L:406:ARG:HH12	2.28	0.47
35:6V:293:LEU:HD12	35:6V:443:LEU:HD13	1.96	0.47
38:7I:236:GLY:HA2	42:IM:338:LYS:HE2	1.97	0.47
42:AI:152:LEU:HD12	42:AI:152:LEU:HA	1.78	0.47
41:AL:309:ARG:HG3	41:AL:426:GLN:HG3	1.97	0.47
42:BE:69:ASP:OD2	42:BE:71:GLU:HB2	2.15	0.47
42:BG:154:MET:HE3	42:BG:198:SER:HB2	1.97	0.47
41:CD:86:ARG:HB3	41:CD:89:ASN:HB2	1.97	0.47
41:CD:323:MET:HG3	42:CE:224:TYR:CD1	2.50	0.47
41:CH:209:ASP:O	41:CH:213:ARG:HG2	2.15	0.47
41:CL:28:HIS:HD1	41:CL:47:ILE:HA	1.80	0.47
42:DC:150:THR:O	42:DC:154:MET:HG2	2.15	0.47
41:DD:350:LYS:HE2	41:DD:350:LYS:HB3	1.64	0.47
41:DF:295:ASP:OD2	41:DF:296:ALA:N	2.48	0.47
41:DF:357:PRO:O	41:DF:359:ARG:NH1	2.47	0.47
41:DH:198:GLU:HB2	41:DH:200:TYR:CE1	2.48	0.47
42:DI:220:GLU:HG2	42:DI:221:ARG:N	2.30	0.47
41:DJ:188:SER:O	41:DJ:189:VAL:C	2.53	0.47
41:DJ:313:VAL:HA	41:DJ:369:GLY:CA	2.46	0.47
42:DK:65:ALA:O	42:DK:91:GLN:HG3	2.15	0.47
42:DK:97:GLU:HB3	42:DK:110:ILE:HD11	1.96	0.47
41:DL:156:ARG:HA	41:DL:156:ARG:HD2	1.67	0.47
42:DM:398:MET:HG2	42:DM:403:ALA:HB3	1.97	0.47
41:ED:100:ASN:O	41:ED:103:LYS:N	2.48	0.47
42:EE:430:LYS:HA	42:EE:430:LYS:HD2	1.40	0.47
42:EI:271:THR:HA	42:EI:302:MET:HE2	1.96	0.47
42:EI:324:VAL:HG21	41:EJ:219:THR:HA	1.96	0.47
42:EK:326:LYS:HA	41:EL:208:TYR:HE1	1.80	0.47
41:EL:379:LYS:HA	41:EL:379:LYS:HD2	1.64	0.47
42:EM:137:ILE:HG23	42:EM:168:GLU:HG3	1.96	0.47
41:FD:313:VAL:HA	41:FD:369:GLY:HA2	1.95	0.47
41:FF:54:ALA:HB3	41:FF:58:LYS:HB3	1.96	0.47
42:FG:409:VAL:HG23	42:FG:414:GLU:HA	1.96	0.47
42:FI:170:SER:HB3	42:FI:203:MET:HG2	1.96	0.47
42:FI:190:THR:O	42:FI:194:THR:N	2.44	0.47
42:FM:396:ASP:OD2	42:FM:422:ARG:NH1	2.30	0.47
41:GD:346:PRO:HB2	42:GE:394:LYS:HZ2	1.80	0.47
41:GF:203:ASP:HB2	41:GF:301:ALA:HA	1.96	0.47
41:GH:117:LEU:HB3	41:GH:121:ARG:HH12	1.79	0.47
42:GK:173:PRO:HG3	42:GK:183:GLU:OE2	2.15	0.47
42:GM:223:THR:OG1	42:GM:224:TYR:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:HB:310:TYR:HB2	41:HB:341:PHE:HD2	1.80	0.47
42:HC:384:ILE:H	42:HC:384:ILE:HG13	1.40	0.47
41:HD:336:LYS:HE2	41:HD:336:LYS:HB3	1.46	0.47
42:HG:259:LEU:HD21	42:HG:268:PRO:HG3	1.97	0.47
41:HH:81:PHE:O	41:HH:84:ILE:HG12	2.15	0.47
42:HK:288:VAL:HG22	42:HK:323:VAL:HG12	1.97	0.47
42:IC:256:GLN:O	41:ID:397:TRP:NE1	2.48	0.47
41:IJ:39:ASP:OD1	41:IJ:40:SER:N	2.48	0.47
41:JH:139:LEU:HD23	41:JH:170:VAL:HG12	1.97	0.47
41:JH:354:CYS:SG	41:JH:355:ASP:N	2.87	0.47
41:JJ:313:VAL:HB	41:JJ:367:PHE:HE2	1.78	0.47
42:JK:7:VAL:HG13	42:JK:137:ILE:HG12	1.96	0.47
42:JK:220:GLU:O	42:JK:222:PRO:HD3	2.15	0.47
42:JK:332:ILE:O	42:JK:335:ILE:HG12	2.16	0.47
42:JK:409:VAL:HA	42:JK:413:MET:O	2.15	0.47
41:KF:283:ALA:HA	41:LF:55:THR:HG23	1.97	0.47
41:KL:215:LEU:HG	41:KL:273:LEU:HD21	1.96	0.47
41:KL:273:LEU:O	41:KL:292:GLN:NE2	2.47	0.47
42:LE:204:VAL:HG12	42:LE:302:MET:HB3	1.97	0.47
41:LL:341:PHE:HD2	41:LL:348:ASN:HD22	1.63	0.47
42:MC:1:MET:SD	41:MD:70:PRO:HG3	2.55	0.47
42:MC:88:HIS:CE1	42:MC:90:GLU:HB2	2.50	0.47
42:MC:143:GLY:O	42:MC:147:SER:N	2.48	0.47
42:MC:325:PRO:O	42:MC:329:ASN:ND2	2.48	0.47
41:MF:130:LEU:HD23	41:MF:162:ARG:HD3	1.97	0.47
41:MH:261:PRO:HG3	42:MI:406:HIS:CE1	2.50	0.47
41:MJ:138:SER:HA	41:MJ:169:VAL:HB	1.96	0.47
41:ML:193:VAL:HG11	41:ML:262:ARG:HE	1.80	0.47
42:MM:233:GLN:HG3	42:MM:368:LEU:HD22	1.96	0.47
42:MM:271:THR:HB	42:MM:301:GLN:HA	1.96	0.47
42:NA:63:PRO:HG2	42:NA:91:GLN:HE22	1.79	0.47
41:NB:309:ARG:HD3	41:NB:342:VAL:HG12	1.97	0.47
41:NF:222:TYR:HD1	41:NF:222:TYR:HA	1.64	0.47
41:NH:107:THR:O	41:NH:109:GLY:N	2.48	0.47
41:NH:121:ARG:HE	41:NH:121:ARG:HB2	1.55	0.47
41:NH:167:PHE:CZ	41:NH:233:MET:HA	2.50	0.47
42:NI:174:ALA:HB3	42:NI:177:VAL:O	2.15	0.47
42:NK:161:TYR:O	42:NK:162:GLY:C	2.53	0.47
42:OA:174:ALA:HB2	42:OA:205:ASP:HB3	1.96	0.47
41:OB:286:VAL:HG21	41:OB:325:GLU:HB2	1.96	0.47
42:OE:90:GLU:HG3	42:PE:280:LYS:HE3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:OF:256:ASN:OD1	42:OG:181:VAL:HB	2.15	0.47
42:OG:399:TYR:CD2	42:OG:402:ARG:HB2	2.50	0.47
41:OJ:358:PRO:O	41:OJ:359:ARG:C	2.53	0.47
41:OJ:379:LYS:HE3	41:OJ:379:LYS:HB3	1.40	0.47
41:PB:113:VAL:HG21	41:PB:150:LEU:HG	1.98	0.47
42:PE:121:ARG:HD2	42:PE:124:LYS:HD2	1.97	0.47
42:PG:194:THR:O	42:PG:195:LEU:C	2.53	0.47
42:PG:247:ALA:O	42:PG:248:LEU:C	2.54	0.47
42:PI:322:ASP:O	42:PI:373:ARG:HD3	2.15	0.47
41:PJ:266:PHE:HA	41:PJ:369:GLY:O	2.15	0.47
41:PJ:337:ASN:O	41:PJ:338:SER:C	2.53	0.47
42:PK:267:PHE:HB2	42:PK:432:TYR:OH	2.15	0.47
41:QB:142:GLY:N	43:QB:501:GDP:O3B	2.46	0.47
42:QE:2:ARG:NH1	42:QE:243:ARG:HA	2.30	0.47
42:QI:89:PRO:HB2	42:RI:280:LYS:HE3	1.97	0.47
42:QI:173:PRO:HG3	42:QI:187:SER:HB3	1.96	0.47
42:QI:291:ILE:HD13	42:QI:373:ARG:HB3	1.96	0.47
42:QK:349:THR:OG1	42:QK:350:GLY:N	2.47	0.47
42:RE:5:ILE:HD12	42:RE:5:ILE:H	1.80	0.47
42:RG:137:ILE:HG21	42:RG:154:MET:HE2	1.96	0.47
42:RI:16:ILE:HD11	42:RI:138:PHE:HB3	1.97	0.47
41:RJ:256:ASN:HB3	42:RK:181:VAL:HG22	1.96	0.47
42:SC:51:THR:HG23	42:SC:52:PHE:HD1	1.80	0.47
41:SF:94:GLN:O	41:SF:95:SER:C	2.54	0.47
42:SG:28:HIS:HA	42:SG:244:PHE:CZ	2.48	0.47
42:SM:235:VAL:HA	42:SM:238:ILE:HD12	1.96	0.47
42:TG:184:PRO:HG2	42:TG:394:LYS:HE2	1.96	0.47
42:TM:7:VAL:HA	42:TM:66:VAL:HB	1.97	0.47
42:TM:215:ARG:HG2	42:TM:216:ASN:H	1.79	0.47
41:UD:396:HIS:HA	41:UD:399:THR:HG22	1.97	0.47
41:UH:101:TRP:H	41:UH:398:TYR:HE2	1.62	0.47
41:UH:318:ARG:HD3	41:UH:358:PRO:HD3	1.95	0.47
42:UM:209:ILE:HA	42:UM:212:ILE:HG22	1.97	0.47
41:VD:349:VAL:HG12	41:VD:351:THR:H	1.79	0.47
42:VI:119:LEU:HD21	42:VI:156:ARG:HB3	1.96	0.47
42:VI:239:THR:O	42:VI:243:ARG:NH1	2.48	0.47
42:VI:259:LEU:HD21	42:VI:378:LEU:HB3	1.97	0.47
41:VL:272:PRO:HG2	41:VL:361:LEU:HD13	1.96	0.47
42:WC:52:PHE:CZ	42:WC:239:THR:HG21	2.50	0.47
41:WF:1:MET:O	41:WF:129:CYS:HB3	2.14	0.47
41:WF:332:ASN:O	41:WF:336:LYS:HG2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:WG:424:ASP:O	42:WG:428:LEU:N	2.44	0.47
41:WH:66:VAL:HA	41:WH:91:VAL:O	2.14	0.47
41:WH:284:LEU:HD23	41:WH:284:LEU:HA	1.70	0.47
41:WL:52:ASN:OD1	41:WL:62:ARG:NH2	2.48	0.47
14:2Y:196:GLN:HG3	41:NL:58:LYS:HZ1	1.80	0.46
16:3D:282:ARG:HH11	42:VE:214:ARG:HE	1.63	0.46
19:3K:96:VAL:HB	42:AG:41:THR:O	2.14	0.46
19:3L:461:ILE:HG22	19:3L:463:GLY:H	1.80	0.46
20:3O:266:GLN:HE22	20:3O:268:ARG:HH11	1.63	0.46
21:3T:192:SER:HB2	21:3T:253:ILE:HG12	1.97	0.46
24:4F:22:TYR:HD1	41:NB:276:ARG:NH2	2.13	0.46
24:4F:157:GLU:OE1	24:4F:160:ARG:NH2	2.48	0.46
27:4O:62:PHE:HE1	41:AB:427:ASP:HB3	1.81	0.46
27:4R:121:PHE:O	27:4R:124:GLU:HG3	2.15	0.46
30:5A:152:LYS:O	30:5A:156:GLU:HG2	2.15	0.46
31:5G:125:HIS:O	42:OI:84:ARG:NH1	2.42	0.46
33:5V:121:GLU:OE1	35:6T:409:ARG:NH2	2.48	0.46
33:5X:115:GLU:HG2	33:5X:393:THR:HG21	1.97	0.46
33:5X:412:THR:O	34:6C:168:ILE:HD11	2.15	0.46
34:6A:154:GLY:O	34:6A:155:PHE:C	2.51	0.46
34:6B:375:THR:HG22	34:6B:379:ILE:HD12	1.97	0.46
34:6K:328:VAL:HA	34:6K:331:VAL:HG12	1.96	0.46
35:6R:116:GLU:O	35:6R:119:ARG:HG3	2.15	0.46
37:7C:218:PRO:HG2	42:TG:340:THR:HG23	1.97	0.46
41:AB:67:ASP:OD1	41:AB:68:LEU:N	2.48	0.46
41:AD:286:VAL:HB	41:AD:325:GLU:HG2	1.96	0.46
41:AD:309:ARG:O	41:AD:372:THR:N	2.47	0.46
41:AD:316:VAL:HG12	41:AD:352:ALA:HB3	1.95	0.46
42:AG:67:PHE:HB2	42:AG:92:LEU:HD23	1.96	0.46
42:AK:137:ILE:HG12	42:AK:154:MET:HE1	1.97	0.46
42:AK:163:LYS:H	42:AK:163:LYS:HG2	1.49	0.46
42:BI:225:THR:O	42:BI:229:ARG:HG3	2.14	0.46
42:CC:349:THR:HG21	41:CD:182:PRO:HD3	1.97	0.46
41:CD:98:GLY:O	41:CD:99:ASN:C	2.52	0.46
42:CE:141:PHE:HB3	42:CE:187:SER:HA	1.97	0.46
42:CG:12:ALA:O	42:CG:15:GLN:N	2.47	0.46
42:CI:224:TYR:HD1	42:CI:227:LEU:HD12	1.80	0.46
42:CI:241:SER:HG	42:CI:250:VAL:H	1.58	0.46
42:CI:298:PRO:HB3	42:CI:307:PRO:HD2	1.97	0.46
42:CI:392:ASP:O	42:CI:422:ARG:NH1	2.49	0.46
41:CJ:87:PRO:HG2	41:DJ:278:SER:HA	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:CL:50:TYR:HH	41:CL:237:THR:HG1	1.63	0.46
41:DD:178:THR:HB	41:DD:181:GLU:HB2	1.97	0.46
41:DF:265:PHE:O	41:DF:370:ASN:ND2	2.46	0.46
42:DG:339:ARG:HH12	42:DG:342:GLN:HG3	1.80	0.46
41:DH:36:TYR:CD2	41:DH:44:LEU:HD22	2.50	0.46
41:DH:169:VAL:O	41:DH:170:VAL:C	2.53	0.46
41:DH:415:MET:HA	41:DH:418:LEU:HD23	1.97	0.46
42:DI:15:GLN:C	42:DI:228:ASN:HD21	2.19	0.46
42:DI:241:SER:OG	42:DI:250:VAL:O	2.28	0.46
42:DI:246:GLY:HA2	42:DI:357:TYR:CD2	2.50	0.46
42:DI:395:PHE:HD2	42:DI:422:ARG:HH11	1.63	0.46
41:DJ:69:GLU:HG2	41:DJ:71:GLY:H	1.80	0.46
42:DK:153:LEU:HG	42:DK:157:LEU:HD13	1.96	0.46
42:DK:163:LYS:HB3	42:DK:163:LYS:HE3	1.46	0.46
41:ED:32:PRO:O	41:ED:33:THR:C	2.53	0.46
41:ED:148:GLY:O	41:ED:151:LEU:HB2	2.15	0.46
42:EE:188:ILE:HG13	42:EE:395:PHE:HB2	1.97	0.46
42:EE:324:VAL:HG23	42:EE:326:LYS:H	1.80	0.46
42:EG:120:ASP:O	42:EG:123:ARG:HB3	2.15	0.46
42:EG:298:PRO:HA	42:EG:301:GLN:HG2	1.98	0.46
41:EH:204:ASN:ND2	41:EH:225:LEU:HB3	2.30	0.46
42:EK:200:CYS:SG	42:EK:201:ALA:N	2.88	0.46
42:EK:304:LYS:HE2	42:EK:304:LYS:HB3	1.59	0.46
41:EL:251:ARG:CG	42:EM:100:ALA:HB2	2.45	0.46
42:EM:257:THR:OG1	42:EM:258:ASN:N	2.48	0.46
41:FD:358:PRO:HD3	41:FD:364:SER:HB2	1.97	0.46
42:FE:56:THR:HA	42:GE:285:GLN:HB3	1.97	0.46
41:FH:55:THR:HG23	41:GH:283:ALA:HA	1.96	0.46
41:FJ:69:GLU:OE1	41:FJ:69:GLU:N	2.48	0.46
41:FJ:114:ASP:OD1	41:FJ:115:SER:N	2.48	0.46
41:FJ:199:THR:HB	41:FJ:265:PHE:HA	1.98	0.46
42:FK:328:VAL:HG11	42:FK:353:VAL:HG11	1.97	0.46
41:FL:191:GLN:O	41:FL:194:GLU:HB2	2.15	0.46
41:FL:331:LEU:O	41:FL:332:ASN:C	2.53	0.46
42:FM:129:CYS:SG	42:FM:132:LEU:HD13	2.55	0.46
42:GI:141:PHE:HB3	42:GI:187:SER:HA	1.97	0.46
41:GJ:139:LEU:O	41:GJ:141:GLY:N	2.48	0.46
42:GK:338:LYS:NZ	42:GK:341:ILE:H	2.14	0.46
42:GM:248:LEU:HD12	42:GM:354:GLY:HA2	1.96	0.46
42:GM:415:GLU:HA	42:GM:418:PHE:HD2	1.81	0.46
41:HB:396:HIS:NE2	42:HM:263:PRO:HD3	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:HC:58:ALA:O	42:HC:60:LYS:N	2.47	0.46
42:HC:319:TYR:CD2	42:HC:375:VAL:HG22	2.50	0.46
42:HG:10:GLY:O	42:HG:14:VAL:HG22	2.15	0.46
42:HG:163:LYS:HD3	42:HG:163:LYS:HA	1.43	0.46
42:HI:163:LYS:O	42:HI:164:LYS:C	2.53	0.46
42:HK:178:SER:OG	42:HK:180:ALA:O	2.32	0.46
41:HL:180:VAL:HG23	41:HL:184:ASN:HD21	1.81	0.46
41:IH:165:ASN:ND2	41:IH:198:GLU:OE1	2.48	0.46
41:IL:371:SER:O	41:IL:422:TYR:OH	2.33	0.46
42:IM:332:ILE:HA	42:IM:335:ILE:HG22	1.97	0.46
41:IN:301:ALA:O	41:IN:302:ALA:C	2.54	0.46
41:JF:289:LEU:HD11	41:JF:363:MET:HB3	1.96	0.46
42:JG:346:TRP:HB3	41:JH:391:ARG:HD3	1.96	0.46
42:JK:174:ALA:HB1	42:JK:175:PRO:HD2	1.96	0.46
42:JK:265:ILE:HD13	42:JK:435:VAL:HG21	1.97	0.46
42:LE:371:VAL:HG12	42:LE:373:ARG:H	1.80	0.46
41:LH:314:ALA:HB2	41:LH:350:LYS:HZ3	1.80	0.46
41:MD:313:VAL:HG22	41:MD:367:PHE:CE2	2.48	0.46
42:MI:326:LYS:HE2	41:MJ:219:THR:HA	1.97	0.46
41:MN:319:GLY:O	41:MN:320:ARG:C	2.53	0.46
42:NA:303:VAL:O	42:NA:304:LYS:C	2.53	0.46
42:NC:383:ALA:O	42:NC:386:GLU:HG2	2.15	0.46
41:ND:6:HIS:HB3	41:ND:63:ALA:HB2	1.96	0.46
41:NF:360:GLY:O	41:NF:361:LEU:C	2.53	0.46
42:NG:57:GLY:O	42:NG:58:ALA:C	2.53	0.46
42:NI:264:ARG:O	42:NI:265:ILE:C	2.52	0.46
42:NK:386:GLU:O	42:NK:388:TRP:N	2.48	0.46
41:OB:133:PHE:O	41:OB:165:ASN:N	2.40	0.46
41:OB:133:PHE:HD2	41:OB:164:MET:HG2	1.79	0.46
41:OB:192:LEU:HD12	41:OB:192:LEU:HA	1.75	0.46
41:OF:311:LEU:HD23	41:OF:342:VAL:HG11	1.97	0.46
41:OH:121:ARG:O	41:OH:122:LYS:C	2.54	0.46
41:OJ:58:LYS:O	41:OJ:59:TYR:C	2.54	0.46
41:OL:86:ARG:HB2	41:PL:281:TYR:CD2	2.50	0.46
42:PA:83:TYR:O	42:PA:84:ARG:C	2.53	0.46
41:PD:170:VAL:O	41:PD:171:PRO:C	2.54	0.46
41:PD:324:LYS:HE3	42:PE:210:TYR:HB3	1.96	0.46
42:PG:110:ILE:C	42:PG:112:LYS:H	2.18	0.46
42:PG:327:ASP:O	42:PG:328:VAL:C	2.53	0.46
41:PH:108:GLU:O	41:PH:111:GLU:N	2.48	0.46
41:PH:310:TYR:CD1	41:PH:371:SER:HB2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:PI:107:HIS:HA	42:PI:152:LEU:HG	1.96	0.46
42:PI:258:ASN:OD1	41:PJ:179:VAL:HG13	2.15	0.46
42:PI:332:ILE:HG13	42:PI:333:ALA:N	2.30	0.46
42:PI:405:VAL:O	42:PI:409:VAL:HG12	2.16	0.46
41:PJ:296:ALA:O	41:PJ:299:MET:N	2.48	0.46
41:PL:218:THR:OG1	41:PL:219:THR:N	2.46	0.46
41:QB:123:GLU:O	41:QB:126:SER:OG	2.32	0.46
41:QD:116:VAL:HG21	41:QD:151:LEU:HD21	1.97	0.46
41:QH:149:THR:HB	41:QH:191:GLN:HE21	1.80	0.46
41:QH:182:PRO:HG3	41:QH:384:GLN:HG3	1.97	0.46
41:QJ:45:GLU:C	41:QJ:47:ILE:H	2.18	0.46
41:QJ:122:LYS:HB2	41:QJ:122:LYS:HE2	1.63	0.46
41:QJ:198:GLU:HG3	41:QJ:266:PHE:HE2	1.80	0.46
41:QJ:332:ASN:HA	41:QJ:335:ASN:HD21	1.80	0.46
42:QK:76:ASP:HA	42:QK:79:ARG:HE	1.79	0.46
42:QK:115:ILE:O	42:QK:116:ASP:C	2.53	0.46
41:RF:73:MET:HB2	41:RF:92:PHE:CD1	2.50	0.46
41:RJ:210:ILE:O	41:RJ:214:THR:N	2.48	0.46
42:RK:28:HIS:CE1	42:RK:49:PHE:HA	2.50	0.46
42:RK:402:ARG:HH21	42:RK:405:VAL:HG11	1.79	0.46
42:SC:250:VAL:HG21	42:SC:318:LEU:HD22	1.96	0.46
42:SI:262:TYR:HB3	42:SI:263:PRO:HD2	1.96	0.46
42:SI:430:LYS:O	42:SI:431:ASP:C	2.54	0.46
42:SM:68:VAL:HG21	42:SM:118:VAL:HG13	1.97	0.46
42:TC:269:LEU:HD12	42:TC:301:GLN:HB3	1.97	0.46
41:TD:152:ILE:HD12	41:TD:164:MET:HE2	1.96	0.46
41:TD:247:ASN:OD1	41:TD:248:ALA:N	2.48	0.46
42:TE:201:ALA:HB3	42:TE:267:PHE:CD1	2.50	0.46
42:TE:305:CYS:SG	42:TE:306:ASP:N	2.88	0.46
41:TF:271:ALA:HB2	41:TF:293:MET:HB3	1.98	0.46
41:TJ:161:ASP:OD1	41:TJ:162:ARG:NH1	2.48	0.46
42:TK:132:LEU:HD13	42:TK:132:LEU:HA	1.75	0.46
42:TK:172:TYR:O	42:TK:174:ALA:N	2.48	0.46
41:TL:256:ASN:ND2	41:TL:350:LYS:HG2	2.29	0.46
41:UH:8:GLN:HG2	41:UH:17:GLY:HA3	1.96	0.46
41:UH:423:GLN:HA	41:UH:426:GLN:HB2	1.96	0.46
42:UI:119:LEU:HA	42:UI:122:ILE:HD12	1.97	0.46
42:UM:11:GLN:HE21	42:UM:74:VAL:HG11	1.80	0.46
41:VF:309:ARG:NH1	41:VF:426:GLN:O	2.48	0.46
42:WM:115:ILE:HA	42:WM:118:VAL:HG12	1.96	0.46
42:WM:207:GLU:HA	42:WM:210:TYR:CD2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:WM:226:ASN:OD1	42:WM:229:ARG:NH2	2.49	0.46
8:1X:102:ARG:NH2	42:AC:431:ASP:OD1	2.40	0.46
9:2D:412:SER:OG	42:II:218:ASP:O	2.29	0.46
19:3K:496:ILE:HG22	19:3K:498:VAL:HG23	1.98	0.46
19:3L:272:THR:HG22	19:3L:296:ARG:HB3	1.97	0.46
20:3N:84:ARG:NH2	20:3N:86:ARG:HD3	2.29	0.46
20:3Q:645:LYS:HG2	20:3Q:649:LYS:HE2	1.97	0.46
22:3Z:103:PHE:HD1	42:BI:221:ARG:HD3	1.81	0.46
25:4J:47:LEU:H	41:IL:78:SER:HB2	1.79	0.46
27:4O:162:ARG:HH22	41:AB:436:PHE:HA	1.80	0.46
30:5A:119:LYS:HD2	41:MJ:53:GLU:HG2	1.96	0.46
32:5M:140:HIS:CD2	32:5M:144:ARG:HH11	2.33	0.46
34:6B:297:PRO:HG3	34:6C:414:ASP:HA	1.97	0.46
34:6F:394:LYS:HZ2	34:6G:283:TYR:HA	1.80	0.46
34:6M:356:ASP:OD2	34:6M:357:ALA:N	2.48	0.46
35:6S:158:CYS:HB3	35:6S:429:LYS:NZ	2.31	0.46
35:6T:352:VAL:HA	35:6U:238:VAL:HG11	1.97	0.46
35:6V:307:ARG:HE	35:6V:311:LEU:CD1	2.28	0.46
37:7D:71:SER:HB3	42:TC:308:ARG:HH22	1.80	0.46
38:7H:157:PRO:O	38:7H:161:ARG:NH2	2.47	0.46
38:7I:218:VAL:HA	41:IN:332:ASN:HB3	1.96	0.46
41:AB:148:GLY:O	41:AB:152:ILE:HG12	2.15	0.46
42:AI:188:ILE:HG22	42:AI:421:ALA:HB1	1.97	0.46
42:BC:204:VAL:HG11	42:BC:231:ILE:HD11	1.97	0.46
41:BD:262:ARG:O	41:BD:264:HIS:ND1	2.48	0.46
41:BF:36:TYR:OH	41:BF:40:SER:O	2.31	0.46
41:BF:383:GLU:HA	41:BF:386:THR:HG22	1.96	0.46
42:BI:59:GLY:O	42:BI:61:HIS:ND1	2.48	0.46
41:BJ:8:GLN:HE21	41:BJ:14:ASN:HA	1.81	0.46
41:CB:1:MET:HE3	42:CC:72:PRO:HG3	1.97	0.46
42:CC:163:LYS:HE3	42:CC:163:LYS:HB3	1.59	0.46
42:CC:172:TYR:HB2	42:CC:203:MET:HG2	1.98	0.46
42:CE:220:GLU:OE1	42:CE:221:ARG:NH2	2.48	0.46
41:CF:46:ARG:HG3	41:CF:241:ARG:HA	1.96	0.46
41:CJ:200:TYR:CE1	41:CJ:368:ILE:HG12	2.50	0.46
41:CJ:373:ALA:C	41:CJ:375:GLN:H	2.18	0.46
42:CK:258:ASN:HD21	41:CL:178:THR:HG23	1.80	0.46
42:CM:207:GLU:HG2	42:CM:304:LYS:CE	2.45	0.46
41:DH:47:ILE:HG12	41:DH:51:TYR:HB2	1.98	0.46
41:DH:263:LEU:HB3	41:DH:422:TYR:CZ	2.50	0.46
41:DJ:284:LEU:HD13	41:DJ:362:LYS:HZ3	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DJ:336:LYS:HE3	41:DJ:336:LYS:HB3	1.58	0.46
42:DK:212:ILE:HD11	42:DK:300:ASN:HA	1.96	0.46
42:DK:346:TRP:HB3	41:DL:391:ARG:HD3	1.98	0.46
42:DK:422:ARG:HA	42:DK:422:ARG:HD2	1.49	0.46
41:ED:44:LEU:HD11	41:ED:59:TYR:CE2	2.50	0.46
41:ED:290:THR:HG22	41:ED:317:PHE:HZ	1.80	0.46
42:EE:319:TYR:N	42:EE:354:GLY:O	2.43	0.46
41:EF:324:LYS:HG2	42:EG:210:TYR:CD2	2.50	0.46
41:EF:405:GLU:OE1	41:EF:405:GLU:N	2.48	0.46
42:EI:257:THR:HG22	41:EJ:397:TRP:CD2	2.50	0.46
42:EK:258:ASN:OD1	41:EL:179:VAL:HG22	2.14	0.46
42:FC:11:GLN:HB3	45:FC:501:GTP:O1B	2.15	0.46
42:FC:47:ASP:C	42:FC:49:PHE:H	2.17	0.46
42:FC:261:PRO:O	41:FD:396:HIS:NE2	2.48	0.46
42:FC:284:GLU:O	42:FC:286:LEU:N	2.48	0.46
42:FE:318:LEU:HB2	42:FE:376:CYS:HB3	1.97	0.46
41:FJ:26:ASP:O	41:FJ:359:ARG:NH1	2.48	0.46
41:FJ:132:GLY:HA2	41:FJ:162:ARG:HB3	1.97	0.46
41:FJ:207:LEU:HB3	41:FJ:225:LEU:HG	1.97	0.46
42:FK:104:ALA:HA	42:FK:108:TYR:CZ	2.48	0.46
42:FK:158:SER:HB3	42:FK:197:HIS:CD2	2.51	0.46
41:FL:255:VAL:HG11	42:FM:100:ALA:HB1	1.96	0.46
42:GE:69:ASP:OD2	42:GE:70:LEU:N	2.49	0.46
41:GF:139:LEU:HD13	41:GF:170:VAL:HA	1.97	0.46
42:GG:16:ILE:HA	42:GG:228:ASN:HB3	1.97	0.46
42:GG:196:GLU:HG2	42:GG:197:HIS:ND1	2.30	0.46
42:GG:220:GLU:HG3	42:GG:221:ARG:HG3	1.96	0.46
41:GL:25:SER:HB2	41:GL:30:ILE:HB	1.97	0.46
41:GL:32:PRO:HB3	41:GL:81:PHE:HA	1.98	0.46
42:GM:273:ALA:HB3	42:GM:274:PRO:HD3	1.98	0.46
42:HC:99:ALA:CB	42:HC:144:GLY:HA3	2.45	0.46
42:HC:170:SER:HB3	42:HC:203:MET:HE1	1.96	0.46
42:HG:315:CYS:HA	42:HG:379:SER:HA	1.95	0.46
42:HI:138:PHE:CZ	42:HI:235:VAL:HG21	2.50	0.46
42:HI:242:LEU:HD13	42:HI:242:LEU:HA	1.73	0.46
41:HJ:68:LEU:HB2	41:HJ:143:THR:HB	1.97	0.46
41:HJ:156:ARG:HA	41:HJ:156:ARG:HD3	1.62	0.46
41:HJ:387:ALA:HA	41:HJ:390:ARG:HE	1.79	0.46
42:HK:56:THR:N	42:HK:60:LYS:O	2.48	0.46
42:HM:238:ILE:H	42:HM:238:ILE:HG12	1.47	0.46
41:ID:7:LEU:HD23	41:ID:151:LEU:HD13	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:ID:27:GLU:OE1	41:ID:241:ARG:NH1	2.41	0.46
42:IE:206:ASN:HD21	45:IE:501:GTP:N2	2.12	0.46
42:II:202:PHE:HZ	42:II:255:PHE:HE2	1.63	0.46
42:IM:329:ASN:ND2	41:IN:175:VAL:HG13	2.31	0.46
41:IN:42:LEU:HA	41:IN:45:GLU:HB2	1.98	0.46
41:IN:47:ILE:HG21	41:IN:59:TYR:CD2	2.50	0.46
41:JD:258:VAL:HG13	42:JE:407:TRP:HZ2	1.80	0.46
41:JD:276:ARG:NH1	41:JD:279:GLN:OE1	2.48	0.46
41:JF:39:ASP:OD1	41:JF:40:SER:N	2.48	0.46
41:JF:327:ASP:HB3	42:JG:177:VAL:HG21	1.97	0.46
41:JL:7:LEU:HB3	41:JL:135:LEU:HD12	1.96	0.46
41:JL:376:GLU:HG3	41:JL:377:LEU:N	2.30	0.46
41:KF:331:LEU:HD13	42:KG:177:VAL:HG12	1.97	0.46
42:KK:17:GLY:HA2	42:KK:20:CYS:HB2	1.98	0.46
41:KL:3:GLU:OE1	41:KL:3:GLU:N	2.42	0.46
42:LG:248:LEU:HA	41:LH:11:GLN:HE22	1.80	0.46
41:MD:260:PHE:HE2	41:MD:344:TRP:CZ3	2.33	0.46
42:ME:75:ILE:HG21	42:ME:94:THR:HB	1.95	0.46
41:MF:121:ARG:O	41:MF:125:GLU:N	2.46	0.46
41:MH:265:PHE:HB3	41:MH:374:ILE:HD13	1.97	0.46
41:MH:380:ARG:HG3	41:MH:380:ARG:HH11	1.80	0.46
41:MJ:241:ARG:HH21	41:MJ:242:PHE:HE1	1.63	0.46
42:MK:214:ARG:HB3	42:MK:222:PRO:HD3	1.96	0.46
42:MM:16:ILE:HD11	42:MM:171:ILE:HD11	1.95	0.46
41:NH:11:GLN:HA	41:NH:72:THR:HG21	1.96	0.46
42:NI:32:PRO:HB3	42:NI:83:TYR:CD1	2.49	0.46
41:NJ:322:SER:O	41:NJ:322:SER:OG	2.32	0.46
42:NK:122:ILE:HD12	42:NK:157:LEU:HD11	1.97	0.46
41:OD:245:GLN:HE22	42:OE:223:THR:HB	1.80	0.46
42:OE:53:PHE:HD1	42:OE:61:HIS:HB3	1.79	0.46
42:OI:3:GLU:HG2	42:OI:64:ARG:NH1	2.29	0.46
42:OI:358:GLN:NE2	42:OI:359:PRO:O	2.49	0.46
41:OL:122:LYS:HZ1	41:PL:291:GLN:HB2	1.78	0.46
41:OL:266:PHE:HZ	41:OL:368:ILE:HG23	1.80	0.46
42:PA:167:LEU:H	42:PA:167:LEU:HG	1.34	0.46
41:PB:47:ILE:HD12	41:PB:47:ILE:HA	1.77	0.46
41:PB:100:ASN:O	41:PB:101:TRP:C	2.54	0.46
42:PC:149:PHE:N	42:PC:149:PHE:CD1	2.82	0.46
41:PD:19:LYS:HE3	41:PD:19:LYS:HB3	1.69	0.46
41:PF:105:HIS:HA	41:PF:150:LEU:HG	1.96	0.46
42:PG:112:LYS:HE3	42:PG:112:LYS:HB3	1.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:PG:215:ARG:HE	42:PG:215:ARG:HB2	1.51	0.46
42:PI:194:THR:O	42:PI:196:GLU:N	2.48	0.46
42:PI:208:ALA:HB2	42:PI:304:LYS:HG2	1.97	0.46
42:PI:241:SER:HB3	42:PI:250:VAL:O	2.15	0.46
42:PI:324:VAL:O	42:PI:327:ASP:N	2.47	0.46
42:PI:403:ALA:O	42:PI:405:VAL:N	2.48	0.46
41:QF:232:THR:HG23	41:QF:366:THR:HG23	1.97	0.46
42:QG:138:PHE:CZ	42:QG:169:PHE:HB2	2.51	0.46
41:QH:55:THR:HG23	41:RH:284:LEU:HD12	1.96	0.46
41:QH:117:LEU:HD11	41:QH:154:LYS:HB3	1.97	0.46
41:QH:290:THR:O	41:QH:291:GLN:C	2.53	0.46
42:QI:10:GLY:HA3	42:QI:140:SER:HB3	1.97	0.46
42:QI:321:GLY:CA	42:QI:359:PRO:HA	2.45	0.46
41:RB:63:ALA:C	41:RB:89:ASN:HD21	2.19	0.46
41:RB:127:CYS:SG	41:RB:129:CYS:N	2.80	0.46
41:RD:271:ALA:H	41:RD:272:PRO:HD2	1.79	0.46
41:RD:344:TRP:CB	42:RE:401:LYS:HE2	2.46	0.46
42:RG:2:ARG:HH11	42:RG:242:LEU:HG	1.80	0.46
41:RJ:140:GLY:HA2	41:RJ:184:ASN:HB3	1.97	0.46
42:RK:196:GLU:OE2	42:RK:264:ARG:NH2	2.48	0.46
41:RL:304:ASP:HA	41:RL:305:PRO:HD3	1.82	0.46
42:SC:68:VAL:HA	42:SC:93:ILE:HB	1.97	0.46
41:SH:3:GLU:HG3	41:SH:62:ARG:NH2	2.30	0.46
41:SH:267:MET:HB2	41:SH:369:GLY:O	2.15	0.46
42:SI:21:TRP:HH2	42:SI:52:PHE:HB3	1.78	0.46
42:TC:180:ALA:HB3	42:TC:183:GLU:HB2	1.98	0.46
42:TC:219:ILE:HG21	42:TC:226:ASN:ND2	2.30	0.46
41:TF:16:ILE:O	41:TF:20:PHE:N	2.44	0.46
41:TJ:1:MET:HB2	41:TJ:128:ASP:HB3	1.96	0.46
41:TJ:251:ARG:O	41:TJ:255:VAL:HG12	2.15	0.46
42:UC:30:ILE:H	42:UC:30:ILE:HG12	1.48	0.46
42:UC:116:ASP:O	42:UC:117:LEU:C	2.53	0.46
42:UC:372:GLN:HE21	42:UC:372:GLN:HB3	1.58	0.46
41:UF:62:ARG:NH1	41:UF:123:GLU:HG3	2.30	0.46
41:UH:49:VAL:HG11	41:UH:241:ARG:HB3	1.96	0.46
41:UH:108:GLU:O	41:UH:111:GLU:HB3	2.15	0.46
41:UL:375:GLN:NE2	41:UL:419:VAL:HG22	2.30	0.46
42:VG:139:HIS:HE1	42:VG:141:PHE:CE1	2.33	0.46
42:VK:113:GLU:H	42:VK:113:GLU:HG3	1.36	0.46
42:VK:259:LEU:HD11	42:VK:316:CYS:HB2	1.98	0.46
42:VM:60:LYS:HZ3	42:WM:283:HIS:CG	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:WD:172:SER:OG	41:WD:175:VAL:O	2.34	0.46
41:WH:239:CYS:HB2	41:WH:248:ALA:O	2.16	0.46
9:2E:781:VAL:HG13	41:HD:77:ARG:NH1	2.29	0.46
11:2L:116:VAL:HG13	21:3U:205:LYS:HE2	1.96	0.46
19:3L:37:TYR:HE2	42:KK:326:LYS:HE3	1.80	0.46
20:3O:660:LEU:O	20:3O:664:LEU:N	2.48	0.46
21:3U:52:MET:HB3	41:KH:306:ARG:HD3	1.97	0.46
22:4B:195:SER:HB2	22:4B:198:VAL:HG22	1.96	0.46
24:4F:68:ASP:O	24:4F:69:MET:C	2.53	0.46
24:4G:469:PHE:HE2	24:4G:482:PHE:HZ	1.62	0.46
30:5A:41:THR:HG23	30:5A:44:TRP:HB2	1.97	0.46
32:5M:122:ARG:HB3	32:5M:126:ASP:HB3	1.97	0.46
32:5M:220:PHE:O	32:5M:224:ASN:ND2	2.48	0.46
32:5N:90:ASP:OD2	32:5N:239:LYS:NZ	2.40	0.46
33:5S:154:LYS:HB3	33:5S:243:ILE:HG12	1.97	0.46
33:5V:136:GLU:HA	33:5V:139:LYS:HB2	1.97	0.46
33:5V:219:ASP:OD1	33:5V:220:ASP:N	2.49	0.46
34:6D:445:LEU:HD12	34:6D:445:LEU:HA	1.82	0.46
34:6E:389:LYS:HE3	34:6E:431:ILE:HA	1.98	0.46
34:6H:196:ARG:NE	34:6I:77:GLU:OE2	2.47	0.46
34:6L:341:ASN:O	34:6L:345:LEU:N	2.41	0.46
35:6T:335:ASN:ND2	35:6U:78:ARG:HG3	2.31	0.46
35:6V:350:LEU:HD22	35:6V:384:LEU:HD13	1.96	0.46
41:AB:289:LEU:HD11	41:AB:363:MET:HB3	1.97	0.46
41:AF:347:ASN:HD22	42:AG:178:SER:HB3	1.80	0.46
41:AH:190:HIS:O	41:AH:193:VAL:HG12	2.16	0.46
42:AI:164:LYS:HA	42:AI:164:LYS:HD3	1.74	0.46
42:AK:336:LYS:O	42:AK:339:ARG:HG3	2.15	0.46
41:BD:246:LEU:HD22	41:BD:351:THR:HG22	1.97	0.46
42:BE:248:LEU:HA	41:BF:11:GLN:HE22	1.78	0.46
42:BG:238:ILE:HA	42:BG:318:LEU:HD22	1.98	0.46
41:BJ:36:TYR:OH	41:BJ:40:SER:O	2.26	0.46
42:BK:313:MET:HE2	42:BK:435:VAL:HG21	1.97	0.46
41:CB:15:GLN:HG2	41:CB:226:ASN:ND2	2.30	0.46
41:CB:130:LEU:O	41:CB:162:ARG:NH2	2.33	0.46
41:CB:202:ILE:HG12	41:CB:268:PRO:HD2	1.95	0.46
41:CF:305:PRO:O	41:CF:306:ARG:C	2.54	0.46
42:CG:264:ARG:O	42:CG:266:HIS:ND1	2.44	0.46
42:CG:373:ARG:HE	42:CG:373:ARG:HB2	1.44	0.46
42:CI:11:GLN:N	45:CI:501:GTP:O1B	2.44	0.46
41:CJ:60:VAL:HG11	41:DJ:281:TYR:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CK:10:GLY:HA2	42:CK:145:THR:HB	1.97	0.46
41:CL:137:HIS:HB2	41:CL:144:GLY:HA2	1.97	0.46
42:DC:73:THR:O	42:DC:75:ILE:N	2.47	0.46
42:DC:267:PHE:CD2	42:DC:388:TRP:HH2	2.33	0.46
41:DH:61:PRO:HD3	41:DH:84:ILE:HG13	1.97	0.46
41:DH:207:LEU:HD23	41:DH:228:LEU:HB3	1.96	0.46
42:DK:174:ALA:HB2	42:DK:205:ASP:HA	1.97	0.46
41:DL:311:LEU:HB3	41:DL:370:ASN:HB3	1.97	0.46
41:ED:309:ARG:HD2	41:ED:426:GLN:HA	1.96	0.46
41:ED:392:LYS:HZ1	41:ED:395:LEU:HD13	1.80	0.46
41:EF:10:GLY:HA2	41:EF:143:THR:HG23	1.97	0.46
42:EG:15:GLN:HB2	45:EG:501:GTP:O6	2.15	0.46
42:EK:326:LYS:HB3	42:EK:326:LYS:HE2	1.41	0.46
42:EM:377:MET:HG2	42:EM:379:SER:N	2.30	0.46
42:FC:114:LEU:O	42:FC:118:VAL:HG13	2.15	0.46
41:FD:271:ALA:HB3	41:FD:272:PRO:CD	2.44	0.46
41:FF:99:ASN:HA	41:FF:142:GLY:H	1.79	0.46
41:FH:117:LEU:HD21	41:FH:154:LYS:HB3	1.97	0.46
41:FL:54:ALA:O	41:FL:55:THR:C	2.53	0.46
41:FL:60:VAL:HG11	41:FL:86:ARG:HB2	1.96	0.46
41:FL:116:VAL:O	41:FL:120:VAL:HG23	2.15	0.46
41:FL:375:GLN:C	41:FL:377:LEU:H	2.18	0.46
42:GG:202:PHE:HE1	42:GG:378:LEU:HD22	1.80	0.46
42:GK:274:PRO:HG3	42:GK:374:ALA:HA	1.97	0.46
42:HC:221:ARG:HA	42:HC:221:ARG:HD2	1.48	0.46
42:HC:271:THR:HG23	42:HC:377:MET:HG3	1.96	0.46
41:HH:165:ASN:HB3	41:HH:167:PHE:CE1	2.51	0.46
41:HJ:211:CYS:HA	41:HJ:215:LEU:HB2	1.97	0.46
41:HJ:309:ARG:HA	41:HJ:340:TYR:O	2.14	0.46
42:IE:136:LEU:HD12	42:IE:167:LEU:HB2	1.96	0.46
41:IF:372:THR:HG21	41:IF:426:GLN:HG3	1.96	0.46
42:IG:328:VAL:O	42:IG:332:ILE:HG12	2.14	0.46
42:II:333:ALA:HB1	41:IJ:174:LYS:NZ	2.30	0.46
41:IJ:161:ASP:OD1	41:IJ:161:ASP:N	2.49	0.46
41:IL:128:ASP:OD1	41:IL:129:CYS:N	2.48	0.46
42:JC:237:SER:HA	42:JC:320:ARG:NH1	2.30	0.46
42:JC:414:GLU:HG2	42:JC:416:GLY:H	1.80	0.46
41:JD:49:VAL:HG21	41:JD:241:ARG:HG2	1.97	0.46
42:JG:207:GLU:HA	42:JG:210:TYR:CD1	2.51	0.46
41:JH:111:GLU:HG2	41:JH:112:LEU:HD22	1.96	0.46
41:JJ:21:TRP:HD1	41:JJ:24:ILE:HB	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:JJ:64:VAL:HG12	41:JJ:66:VAL:HG23	1.97	0.46
41:JJ:246:LEU:HA	42:JK:11:GLN:HE22	1.80	0.46
42:JM:175:PRO:HA	42:JM:390:ARG:HD3	1.98	0.46
42:KC:358:GLN:NE2	42:KC:359:PRO:HD2	2.30	0.46
41:KJ:39:ASP:OD1	41:KJ:39:ASP:N	2.49	0.46
42:KK:141:PHE:HB2	42:KK:173:PRO:HD3	1.97	0.46
42:KK:435:VAL:HA	41:KL:391:ARG:NH2	2.30	0.46
42:KM:164:LYS:HA	42:KM:164:LYS:HD3	1.47	0.46
41:LF:86:ARG:HG2	41:LF:88:ASP:H	1.80	0.46
41:LH:214:THR:OG1	41:LH:297:LYS:NZ	2.41	0.46
41:LL:152:ILE:HG12	41:LL:164:MET:HE1	1.96	0.46
42:MC:292:THR:OG1	42:MC:319:TYR:OH	2.25	0.46
41:MD:328:GLU:HG2	41:MD:329:GLN:N	2.29	0.46
42:MK:189:LEU:HD13	42:MK:417:GLU:HB2	1.97	0.46
42:MK:255:PHE:HE2	42:MK:316:CYS:HG	1.63	0.46
41:ML:318:ARG:N	41:ML:364:SER:O	2.45	0.46
42:MM:46:ASP:HB3	42:MM:49:PHE:HE1	1.80	0.46
41:MN:149:THR:HG22	41:MN:191:GLN:HB2	1.97	0.46
42:NA:105:ARG:HA	42:NA:109:THR:HG23	1.96	0.46
42:NA:136:LEU:HD22	42:NA:169:PHE:HE1	1.80	0.46
42:NA:255:PHE:O	42:NA:259:LEU:HB2	2.16	0.46
41:ND:107:THR:O	41:ND:109:GLY:N	2.47	0.46
41:OD:45:GLU:HG3	41:OD:46:ARG:HE	1.80	0.46
41:OF:317:PHE:HB3	41:OF:321:MET:SD	2.54	0.46
42:OG:261:PRO:HB3	42:OG:346:TRP:CH2	2.51	0.46
42:OK:16:ILE:HG12	42:OK:231:ILE:HD11	1.96	0.46
42:PA:229:ARG:HE	42:PA:363:VAL:HG11	1.80	0.46
41:PB:49:VAL:HG21	41:PB:241:ARG:HB3	1.98	0.46
41:PB:377:LEU:HD12	41:PB:377:LEU:HA	1.69	0.46
41:PD:33:THR:O	41:PD:58:LYS:HE2	2.15	0.46
41:PD:216:LYS:HD2	41:PD:216:LYS:HA	1.52	0.46
42:PG:205:ASP:O	42:PG:209:ILE:HG13	2.14	0.46
41:PH:16:ILE:HG23	41:PH:226:ASN:HB3	1.98	0.46
41:PH:395:LEU:O	41:PH:396:HIS:C	2.53	0.46
42:PI:115:ILE:HG13	42:PI:152:LEU:HD13	1.97	0.46
42:PI:209:ILE:HD11	42:PI:230:LEU:HB3	1.97	0.46
41:PJ:149:THR:C	41:PJ:151:LEU:H	2.18	0.46
42:PK:268:PRO:HA	42:PK:380:ASN:HA	1.97	0.46
41:PL:180:VAL:O	41:PL:181:GLU:C	2.54	0.46
41:QB:354:CYS:SG	41:QB:355:ASP:N	2.87	0.46
42:QC:150:THR:O	42:QC:154:MET:HG2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:QG:240:ALA:O	42:QG:356:ASN:ND2	2.49	0.46
41:QH:358:PRO:HG2	41:QH:364:SER:HB3	1.97	0.46
41:QJ:8:GLN:NE2	41:QJ:16:ILE:HB	2.31	0.46
42:RG:437:MET:O	41:RH:391:ARG:NH1	2.49	0.46
41:RJ:257:MET:HB3	41:RJ:266:PHE:CE2	2.51	0.46
42:RK:200:CYS:HA	42:RK:266:HIS:HB2	1.97	0.46
41:SD:64:VAL:HG11	41:SD:120:VAL:HG23	1.97	0.46
42:SE:189:LEU:HD13	42:SE:413:MET:HE1	1.97	0.46
42:SI:100:ALA:O	42:SI:101:ASN:C	2.54	0.46
41:SJ:272:PRO:HG3	41:SJ:364:SER:HA	1.98	0.46
41:SJ:293:MET:HG2	41:SJ:367:PHE:HB2	1.96	0.46
41:SL:215:LEU:HD21	41:SL:273:LEU:HD22	1.96	0.46
41:SL:297:LYS:HE2	41:SL:297:LYS:HB2	1.62	0.46
42:SM:36:MET:HG3	42:SM:61:HIS:CD2	2.50	0.46
42:TC:161:TYR:HD2	42:TC:164:LYS:HD2	1.79	0.46
42:TE:112:LYS:HD3	42:TE:152:LEU:HD21	1.98	0.46
41:TF:217:LEU:HB2	41:TF:220:PRO:HG3	1.97	0.46
41:TF:350:LYS:HZ3	42:TG:181:VAL:H	1.63	0.46
41:TH:65:LEU:HB3	41:TH:73:MET:SD	2.56	0.46
42:TI:132:LEU:H	42:TI:132:LEU:CD2	2.28	0.46
42:TI:193:THR:HA	42:TI:197:HIS:HD2	1.81	0.46
42:TK:107:HIS:HA	42:TK:152:LEU:HD23	1.97	0.46
42:UC:188:ILE:HG13	42:UC:425:MET:HG2	1.98	0.46
42:UE:105:ARG:HG3	42:UE:411:GLU:HG2	1.98	0.46
42:UE:165:SER:OG	42:UE:256:GLN:NE2	2.48	0.46
42:UG:259:LEU:HD11	42:UG:316:CYS:SG	2.56	0.46
41:UL:272:PRO:HG2	41:UL:361:LEU:HD13	1.97	0.46
42:VG:75:ILE:HG22	42:VG:92:LEU:HB3	1.97	0.46
42:VI:265:ILE:HG22	42:VI:380:ASN:HD21	1.80	0.46
41:VL:354:CYS:SG	41:VL:355:ASP:N	2.89	0.46
42:WC:202:PHE:CE1	42:WC:378:LEU:HD13	2.50	0.46
41:WF:79:GLY:O	41:WF:80:PRO:C	2.53	0.46
41:WH:6:HIS:HE1	41:WH:136:THR:HG23	1.81	0.46
41:WH:421:GLU:O	41:WH:424:GLN:HG3	2.15	0.46
5:1P:74:VAL:HB	42:LK:155:GLU:HB3	1.96	0.46
10:2H:164:ASP:OD2	42:VM:117:LEU:HD13	2.15	0.46
13:2T:398:LYS:HA	42:GK:370:LYS:HD3	1.97	0.46
20:3N:319:TYR:HD1	20:3N:324:LEU:HD23	1.80	0.46
20:3Q:495:VAL:HA	20:3Q:508:LEU:HG	1.96	0.46
22:4C:31:MET:SD	42:CG:221:ARG:HG3	2.56	0.46
24:4G:242:ARG:O	24:4G:245:ILE:HG22	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:5N:311:LYS:HZ1	33:5X:413:ARG:CD	2.28	0.46
33:5R:24:LEU:HD11	33:5S:372:ARG:HB3	1.96	0.46
33:5S:92:LEU:HD23	33:5S:162:LEU:HG	1.97	0.46
33:5W:352:LEU:HD12	33:5X:45:LEU:HD21	1.97	0.46
34:6B:391:ALA:O	34:6B:394:LYS:HG2	2.15	0.46
34:6B:453:ALA:O	34:6B:454:THR:C	2.54	0.46
34:6H:68:TYR:O	34:6H:71:ARG:HG2	2.16	0.46
34:6J:114:ARG:CD	34:6K:371:GLU:HG3	2.45	0.46
35:6S:151:ILE:HD11	35:6S:433:HIS:HB2	1.95	0.46
35:6W:64:TYR:O	35:6W:67:ALA:N	2.48	0.46
38:7H:163:GLN:NE2	38:7H:164:MET:O	2.38	0.46
42:AC:102:ASN:ND2	42:AC:407:TRP:O	2.37	0.46
42:AE:49:PHE:O	42:AE:53:PHE:N	2.45	0.46
42:AE:122:ILE:HG22	42:AE:123:ARG:HH21	1.79	0.46
41:AL:58:LYS:HE2	41:AL:58:LYS:HB3	1.40	0.46
41:BD:101:TRP:CD1	41:BD:145:SER:HB3	2.45	0.46
41:BD:262:ARG:H	41:BD:262:ARG:HG2	1.42	0.46
41:BF:54:ALA:HB3	41:BF:58:LYS:HB3	1.97	0.46
42:BI:408:TYR:C	42:BI:410:GLY:H	2.18	0.46
42:BK:217:LEU:HD11	42:BK:367:ASP:HB3	1.97	0.46
42:CC:115:ILE:HG23	42:CC:156:ARG:HH21	1.80	0.46
41:CD:137:HIS:O	41:CD:168:SER:HA	2.16	0.46
41:CD:361:LEU:HD12	41:CD:361:LEU:HA	1.72	0.46
42:CE:329:ASN:ND2	41:CF:175:VAL:HG21	2.30	0.46
42:CG:208:ALA:O	42:CG:212:ILE:HG23	2.15	0.46
42:CI:3:GLU:HA	42:CI:51:THR:HA	1.97	0.46
42:CI:363:VAL:HG23	42:CI:366:GLY:HA3	1.97	0.46
41:CJ:20:PHE:C	41:CJ:22:GLU:H	2.19	0.46
41:CJ:260:PHE:HD2	41:CJ:263:LEU:HD12	1.80	0.46
42:CM:204:VAL:HG21	42:CM:231:ILE:HD11	1.97	0.46
41:DB:101:TRP:HB2	41:DB:146:GLY:HA3	1.98	0.46
41:DB:133:PHE:CD1	41:DB:155:ILE:HD13	2.50	0.46
41:DH:180:VAL:O	41:DH:183:TYR:HB2	2.15	0.46
41:DH:251:ARG:O	41:DH:253:LEU:N	2.48	0.46
41:DH:345:ILE:HD11	42:DI:181:VAL:CG2	2.45	0.46
41:DH:348:ASN:HA	42:DI:181:VAL:HG22	1.98	0.46
42:DI:193:THR:O	42:DI:197:HIS:ND1	2.49	0.46
41:DJ:290:THR:O	41:DJ:291:GLN:C	2.53	0.46
42:DK:141:PHE:HB2	42:DK:172:TYR:HA	1.97	0.46
42:EE:154:MET:HB3	42:EE:197:HIS:HB3	1.97	0.46
42:EG:188:ILE:HG13	42:EG:395:PHE:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:EG:401:LYS:HB3	42:EG:401:LYS:HE2	1.71	0.46
41:EJ:313:VAL:N	41:EJ:348:ASN:O	2.43	0.46
42:EK:30:ILE:H	42:EK:30:ILE:HG12	1.29	0.46
42:EK:337:THR:OG1	42:EK:338:LYS:N	2.49	0.46
42:FC:173:PRO:O	42:FC:174:ALA:C	2.54	0.46
42:FE:325:PRO:HA	42:FE:328:VAL:HG12	1.95	0.46
42:FG:60:LYS:NZ	42:FG:85:GLN:O	2.37	0.46
41:FH:103:LYS:O	41:FH:108:GLU:N	2.38	0.46
42:FK:349:THR:O	42:FK:350:GLY:C	2.53	0.46
42:FM:223:THR:HG22	42:FM:225:THR:H	1.81	0.46
41:GF:2:ARG:HB2	41:GF:131:GLN:HB2	1.98	0.46
42:GG:215:ARG:HH22	42:GG:299:ALA:HB1	1.80	0.46
42:GK:206:ASN:HA	42:GK:209:ILE:HD12	1.97	0.46
42:GM:438:ASP:O	42:GM:439:SER:C	2.54	0.46
42:HE:250:VAL:HG23	42:HE:254:GLU:CG	2.45	0.46
42:HG:317:LEU:HB3	42:HG:319:TYR:CE1	2.50	0.46
41:HJ:121:ARG:HB2	41:HJ:121:ARG:HH11	1.80	0.46
41:HL:67:ASP:HA	41:HL:143:THR:HG21	1.97	0.46
41:IF:136:THR:HG22	41:IF:167:PHE:HB2	1.98	0.46
42:IM:90:GLU:HG2	42:IM:121:ARG:HD3	1.96	0.46
41:JD:11:GLN:HG2	41:JD:72:THR:CG2	2.44	0.46
42:JG:71:GLU:HB3	42:JG:98:ASP:HB3	1.97	0.46
42:JI:202:PHE:CE2	42:JI:268:PRO:HG2	2.50	0.46
42:JM:172:TYR:OH	42:JM:388:TRP:HA	2.16	0.46
42:KE:254:GLU:HG2	41:KF:99:ASN:HB2	1.97	0.46
42:KG:93:ILE:HD11	42:KG:121:ARG:HG3	1.97	0.46
41:KN:27:GLU:HA	41:KN:359:ARG:HE	1.80	0.46
41:LF:45:GLU:HG2	41:LF:46:ARG:HG2	1.96	0.46
41:LH:309:ARG:H	41:LH:372:THR:HG1	1.61	0.46
42:LK:262:TYR:HB2	42:LK:265:ILE:HG12	1.97	0.46
42:LM:265:ILE:HG22	42:LM:380:ASN:HD21	1.80	0.46
42:MC:124:LYS:HE3	42:MC:124:LYS:HB2	1.78	0.46
41:MD:103:LYS:HG2	41:MD:401:GLU:HG2	1.98	0.46
41:MD:207:LEU:HB3	41:MD:225:LEU:HG	1.98	0.46
41:MD:258:VAL:HG13	41:MD:266:PHE:HZ	1.79	0.46
41:MF:207:LEU:HD12	41:MF:210:ILE:HD11	1.96	0.46
41:MF:313:VAL:HG12	41:MF:349:VAL:HG23	1.97	0.46
41:MJ:378:PHE:HA	41:MJ:381:ILE:HG22	1.97	0.46
42:MK:231:ILE:HA	42:MK:234:ILE:HD12	1.98	0.46
41:MN:141:GLY:HA3	43:MN:501:GDP:O1A	2.15	0.46
42:NC:15:GLN:NE2	45:NC:501:GTP:N7	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:ND:302:ALA:O	41:ND:303:CYS:C	2.53	0.46
42:NG:221:ARG:N	42:NG:222:PRO:HD3	2.31	0.46
42:NG:319:TYR:CB	42:NG:323:VAL:HG21	2.45	0.46
42:NI:67:PHE:HB3	42:NI:75:ILE:HD13	1.97	0.46
42:NK:86:LEU:HD12	42:NK:86:LEU:HA	1.80	0.46
41:NL:171:PRO:HG3	41:NL:185:ALA:HB2	1.97	0.46
41:NL:304:ASP:HA	41:NL:305:PRO:HD3	1.68	0.46
41:OF:73:MET:HG3	41:OF:92:PHE:HB3	1.97	0.46
41:OF:294:PHE:CE2	41:OF:333:VAL:HG11	2.50	0.46
41:OH:145:SER:HB2	41:OH:188:SER:HB3	1.97	0.46
42:OI:136:LEU:HD23	42:OI:167:LEU:HB2	1.97	0.46
42:OI:211:ASP:O	42:OI:215:ARG:HG3	2.16	0.46
42:PC:268:PRO:HA	42:PC:380:ASN:HA	1.97	0.46
42:PC:273:ALA:HB3	42:PC:375:VAL:HG12	1.96	0.46
41:PD:64:VAL:HA	41:PD:89:ASN:ND2	2.27	0.46
42:PE:104:ALA:HA	42:PE:108:TYR:HD2	1.81	0.46
42:PE:209:ILE:H	42:PE:209:ILE:HG12	1.52	0.46
42:PE:336:LYS:CD	42:PE:351:PHE:CZ	2.98	0.46
41:PF:139:LEU:HA	41:PF:145:SER:HB3	1.96	0.46
42:PG:5:ILE:HG12	42:PG:132:LEU:HD11	1.98	0.46
42:PG:31:GLN:HG2	42:PG:33:ASP:HB3	1.97	0.46
42:PG:70:LEU:CA	42:PG:95:GLY:HA3	2.41	0.46
42:PI:15:GLN:C	42:PI:17:GLY:H	2.18	0.46
42:PI:22:GLU:O	42:PI:23:LEU:C	2.52	0.46
41:PL:203:ASP:OD2	41:PL:205:GLU:HG3	2.15	0.46
41:PL:249:ASP:O	41:PL:250:LEU:C	2.54	0.46
41:QD:139:LEU:HD23	41:QD:170:VAL:HA	1.96	0.46
42:QK:96:LYS:HD3	42:QK:96:LYS:HA	1.42	0.46
41:QL:322:SER:O	41:QL:323:MET:C	2.53	0.46
41:RB:139:LEU:HG	41:RB:170:VAL:HG12	1.97	0.46
41:RB:324:LYS:NZ	42:RC:210:TYR:HB3	2.30	0.46
42:RC:7:VAL:HB	42:RC:137:ILE:HD13	1.97	0.46
41:RD:391:ARG:O	41:RD:392:LYS:C	2.53	0.46
41:RF:116:VAL:O	41:RF:120:VAL:HG13	2.15	0.46
41:RF:336:LYS:HB3	41:RF:336:LYS:HE3	1.45	0.46
41:RH:404:ASP:OD1	41:RH:405:GLU:N	2.47	0.46
41:RJ:183:TYR:OH	41:RJ:395:LEU:HD21	2.16	0.46
41:RJ:381:ILE:HD13	41:RJ:381:ILE:HA	1.64	0.46
42:RK:317:LEU:HD13	42:RK:351:PHE:CE2	2.50	0.46
41:SF:94:GLN:H	41:SF:94:GLN:HG3	1.53	0.46
41:SH:113:VAL:HB	41:SH:154:LYS:HE3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:SI:349:THR:O	42:SI:350:GLY:C	2.54	0.46
41:SJ:12:CYS:HA	43:SJ:501:GDP:C6	2.51	0.46
41:SJ:89:ASN:HA	41:SJ:119:VAL:HG11	1.97	0.46
41:SL:98:GLY:O	41:SL:99:ASN:C	2.54	0.46
41:SL:270:PHE:HD2	41:SL:273:LEU:HG	1.80	0.46
41:TF:246:LEU:HD23	41:TF:352:ALA:HA	1.97	0.46
42:TG:215:ARG:O	42:TG:280:LYS:NZ	2.48	0.46
42:TI:248:LEU:H	42:TI:248:LEU:HD23	1.80	0.46
41:TL:212:PHE:HB3	41:TL:213:ARG:HE	1.80	0.46
42:TM:2:ARG:HG3	42:TM:242:LEU:O	2.16	0.46
41:UH:107:THR:HG21	41:UH:401:GLU:HB2	1.97	0.46
41:UL:86:ARG:HG3	41:UL:89:ASN:H	1.81	0.46
42:VK:121:ARG:HD2	42:VK:121:ARG:HA	1.75	0.46
41:VL:207:LEU:HB3	41:VL:225:LEU:HG	1.97	0.46
41:WD:91:VAL:HG13	41:WD:116:VAL:HG12	1.97	0.46
42:WK:240:ALA:HA	42:WK:243:ARG:HE	1.81	0.46
2:1D:152:ILE:HD11	26:4K:202:VAL:HG13	1.98	0.46
13:2T:398:LYS:HD3	42:GK:370:LYS:HD3	1.96	0.46
19:3L:147:LYS:O	41:AL:78:SER:HB3	2.16	0.46
19:3L:260:ARG:HD2	19:3L:285:ARG:HH22	1.81	0.46
20:3O:272:LYS:HB2	20:3O:317:GLU:HB3	1.98	0.46
20:3P:524:ASP:N	20:3P:524:ASP:OD1	2.49	0.46
21:3T:123:LYS:HD2	21:3T:124:PRO:HD2	1.97	0.46
34:6A:93:ARG:HB3	34:6A:94:TYR:H	1.57	0.46
34:6A:483:THR:OG1	34:6A:484:LEU:N	2.48	0.46
34:6B:239:LYS:HE3	34:6B:321:LEU:HD13	1.97	0.46
34:6C:123:ASP:HB3	34:6D:437:ARG:HH12	1.81	0.46
34:6F:196:ARG:NH1	34:6G:77:GLU:OE1	2.47	0.46
35:6Q:389:ALA:HA	35:6Q:392:LYS:HE2	1.97	0.46
35:6R:50:LYS:HB2	35:6R:50:LYS:HE2	1.84	0.46
37:7F:90:LEU:HD13	37:7F:90:LEU:HA	1.82	0.46
38:7I:263:PRO:HA	41:IL:213:ARG:NH2	2.30	0.46
39:7K:134:THR:HG21	41:WD:276:ARG:HH11	1.80	0.46
41:AB:155:ILE:HG13	41:AB:156:ARG:HD2	1.98	0.46
41:AB:287:PRO:HA	41:AB:325:GLU:HG2	1.97	0.46
41:AD:196:THR:HG21	41:AD:199:THR:HB	1.98	0.46
41:AH:97:ALA:O	41:AH:98:GLY:C	2.53	0.46
42:AI:217:LEU:HB3	42:AI:219:ILE:HG22	1.98	0.46
42:AK:154:MET:HB3	42:AK:197:HIS:HB3	1.97	0.46
41:BB:156:ARG:HD2	41:BB:195:ASN:HB2	1.96	0.46
42:BE:66:VAL:HA	42:BE:91:GLN:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BE:88:HIS:ND1	42:BE:89:PRO:HD2	2.30	0.46
41:BH:172:SER:HB2	41:BH:174:LYS:HE2	1.97	0.46
41:BH:272:PRO:HG3	41:BH:364:SER:HA	1.96	0.46
42:BI:57:GLY:O	42:BI:58:ALA:HB3	2.16	0.46
42:BI:67:PHE:HB3	42:BI:75:ILE:CD1	2.45	0.46
42:BK:91:GLN:HB3	42:BK:121:ARG:HH21	1.81	0.46
42:CC:22:GLU:HG3	42:CC:23:LEU:N	2.29	0.46
41:CF:324:LYS:HG3	42:CG:210:TYR:HB3	1.96	0.46
41:CF:386:THR:O	41:CF:387:ALA:C	2.54	0.46
42:CG:75:ILE:HA	42:CG:78:VAL:HG13	1.96	0.46
42:CG:305:CYS:O	42:CG:306:ASP:C	2.54	0.46
41:CH:344:TRP:CD2	42:CI:401:LYS:HD2	2.49	0.46
42:CI:326:LYS:HB2	41:CJ:220:PRO:HD2	1.96	0.46
41:CL:129:CYS:HB2	42:CM:96:LYS:HE3	1.96	0.46
42:CM:139:HIS:ND1	42:CM:146:GLY:O	2.46	0.46
42:CM:240:ALA:HB1	42:CM:356:ASN:HD22	1.81	0.46
41:DB:156:ARG:HD2	41:DB:195:ASN:HB2	1.96	0.46
42:DC:8:HIS:HB2	42:DC:67:PHE:CD1	2.51	0.46
42:DE:202:PHE:HD1	42:DE:268:PRO:HG2	1.81	0.46
42:DG:101:ASN:HB3	42:DG:182:VAL:HG21	1.97	0.46
41:DH:48:ASN:O	41:DH:62:ARG:NH2	2.49	0.46
41:DH:264:HIS:HA	41:DH:370:ASN:HD21	1.80	0.46
41:DH:395:LEU:HD13	41:DH:395:LEU:HA	1.78	0.46
41:DJ:11:GLN:HG2	43:DJ:501:GDP:O1B	2.15	0.46
41:DJ:101:TRP:O	41:DJ:102:ALA:C	2.54	0.46
41:DJ:252:LYS:HA	41:DJ:255:VAL:HG22	1.97	0.46
41:DJ:383:GLU:HG2	41:DJ:384:GLN:HE21	1.80	0.46
42:DK:11:GLN:HG2	42:DK:74:VAL:HG11	1.98	0.46
42:DK:49:PHE:O	42:DK:51:THR:N	2.48	0.46
41:DL:63:ALA:O	41:DL:89:ASN:HB3	2.15	0.46
41:DL:266:PHE:CE1	41:DL:370:ASN:HB2	2.50	0.46
42:EC:417:GLU:N	42:EC:417:GLU:OE1	2.47	0.46
41:ED:16:ILE:HG12	41:ED:226:ASN:OD1	2.16	0.46
41:ED:247:ASN:ND2	42:EE:71:GLU:OE1	2.48	0.46
41:ED:256:ASN:ND2	42:EE:182:VAL:HG23	2.30	0.46
41:EF:252:LYS:HD3	41:EF:350:LYS:HZ2	1.81	0.46
42:EG:184:PRO:HB3	42:EG:394:LYS:CB	2.43	0.46
41:EH:8:GLN:HE21	41:EH:65:LEU:HG	1.80	0.46
42:EI:254:GLU:HA	41:EJ:98:GLY:HA2	1.97	0.46
41:EJ:101:TRP:HB3	41:EJ:398:TYR:HE1	1.79	0.46
42:EK:67:PHE:HB2	42:EK:92:LEU:CD2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:EM:421:ALA:HB3	42:EM:422:ARG:NH1	2.30	0.46
42:FC:101:ASN:HA	42:FC:144:GLY:N	2.26	0.46
42:FG:187:SER:HB2	42:FG:391:LEU:HD11	1.97	0.46
41:FH:147:MET:O	41:FH:151:LEU:N	2.43	0.46
41:FH:251:ARG:NH2	42:FI:97:GLU:OE2	2.49	0.46
42:GC:88:HIS:CE1	42:GC:90:GLU:HG2	2.50	0.46
41:GF:174:LYS:HG2	41:GF:175:VAL:HG23	1.97	0.46
41:GH:295:ASP:HB3	41:GH:297:LYS:HZ2	1.80	0.46
41:GH:385:PHE:HZ	41:GH:408:PHE:HD2	1.63	0.46
41:GJ:285:THR:O	41:GJ:286:VAL:C	2.54	0.46
41:GL:226:ASN:OD1	43:GL:501:GDP:N1	2.45	0.46
42:GM:209:ILE:CD1	42:GM:302:MET:HG3	2.46	0.46
42:GM:238:ILE:HA	42:GM:318:LEU:HD22	1.98	0.46
41:HB:317:PHE:N	41:HB:352:ALA:O	2.46	0.46
42:HC:257:THR:O	42:HC:257:THR:OG1	2.31	0.46
42:HG:51:THR:HG21	42:HG:243:ARG:HG2	1.97	0.46
42:HG:93:ILE:HD11	42:HG:121:ARG:HG3	1.97	0.46
41:HH:165:ASN:ND2	41:HH:250:LEU:HD13	2.30	0.46
41:HJ:209:ASP:HA	41:HJ:212:PHE:CZ	2.51	0.46
41:HJ:273:LEU:HD12	41:HJ:298:ASN:HD21	1.80	0.46
42:HK:172:TYR:CD1	42:HK:173:PRO:HD2	2.51	0.46
41:HL:317:PHE:N	41:HL:352:ALA:O	2.47	0.46
42:HM:21:TRP:CZ2	42:HM:65:ALA:HB2	2.50	0.46
42:IE:311:LYS:HB2	42:IE:311:LYS:HE3	1.67	0.46
41:IH:138:SER:HA	41:IH:169:VAL:HG12	1.97	0.46
41:IH:167:PHE:CZ	41:IH:233:MET:HG3	2.51	0.46
42:II:427:ALA:HA	42:II:430:LYS:HG2	1.97	0.46
41:IJ:99:ASN:HB3	41:IJ:184:ASN:HD21	1.80	0.46
42:IM:207:GLU:OE2	42:IM:304:LYS:HG3	2.15	0.46
41:IN:131:GLN:HE22	41:IN:250:LEU:HB2	1.81	0.46
41:IN:359:ARG:HA	41:IN:359:ARG:HD2	1.41	0.46
41:JD:167:PHE:HE2	41:JD:233:MET:HB2	1.80	0.46
41:JF:22:GLU:HG3	41:JF:81:PHE:CE2	2.51	0.46
41:JH:86:ARG:NH2	41:MH:282:ARG:HH11	2.14	0.46
42:KG:135:PHE:H	42:KG:166:LYS:HA	1.79	0.46
41:KJ:139:LEU:HD12	41:KJ:170:VAL:HG12	1.97	0.46
41:KN:44:LEU:HA	41:KN:47:ILE:HB	1.98	0.46
41:LD:330:MET:HB3	41:LD:349:VAL:HG21	1.97	0.46
42:LK:264:ARG:NH2	42:LK:428:LEU:HD12	2.31	0.46
41:LL:1:MET:N	41:LL:3:GLU:OE2	2.48	0.46
41:MD:293:MET:HE2	41:MD:293:MET:HB2	1.56	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:ME:241:SER:OG	42:ME:250:VAL:O	2.33	0.46
42:MM:306:ASP:OD2	42:MM:309:HIS:N	2.45	0.46
41:MN:232:THR:HG21	41:MN:268:PRO:HB3	1.98	0.46
41:MN:250:LEU:HA	41:MN:250:LEU:HD12	1.73	0.46
41:NB:318:ARG:HE	41:NB:318:ARG:HB3	1.45	0.46
41:OF:46:ARG:HD2	41:OF:241:ARG:HA	1.97	0.46
41:OH:249:ASP:H	41:OH:252:LYS:HD3	1.81	0.46
41:OJ:217:LEU:HD22	41:OJ:217:LEU:HA	1.69	0.46
42:PA:189:LEU:H	42:PA:189:LEU:HG	1.52	0.46
41:PB:59:TYR:O	41:PB:60:VAL:C	2.53	0.46
41:PB:64:VAL:HG21	41:PB:120:VAL:HG22	1.98	0.46
41:PD:51:TYR:CE1	41:PD:61:PRO:HG3	2.50	0.46
42:PE:298:PRO:O	42:PE:299:ALA:C	2.53	0.46
41:PF:322:SER:O	41:PF:325:GLU:N	2.48	0.46
42:PG:31:GLN:C	42:PG:33:ASP:N	2.68	0.46
42:PG:183:GLU:O	42:PG:184:PRO:C	2.54	0.46
41:PH:36:TYR:CE1	41:PH:38:GLY:HA3	2.50	0.46
41:PH:110:ALA:O	41:PH:111:GLU:C	2.54	0.46
41:PH:271:ALA:HB2	41:PH:365:ALA:HB3	1.97	0.46
41:PH:324:LYS:HB2	42:PI:222:PRO:HD2	1.98	0.46
41:PL:107:THR:O	41:PL:110:ALA:N	2.46	0.46
41:PL:156:ARG:HA	41:PL:156:ARG:HD3	1.49	0.46
41:QB:114:ASP:O	41:QB:118:ASP:N	2.48	0.46
41:QF:393:ALA:O	41:QF:395:LEU:N	2.45	0.46
42:QI:88:HIS:HD2	42:RI:283:HIS:HB3	1.79	0.46
42:QI:101:ASN:HD22	42:QI:143:GLY:HA2	1.81	0.46
42:QI:276:ILE:HG23	42:QI:280:LYS:HB2	1.98	0.46
42:QI:326:LYS:HE3	41:QJ:208:TYR:HB3	1.97	0.46
41:QJ:137:HIS:H	41:QJ:137:HIS:CD2	2.32	0.46
41:QL:266:PHE:HB3	41:QL:369:GLY:C	2.35	0.46
41:RB:183:TYR:HD2	41:RB:398:TYR:HD2	1.63	0.46
42:RC:139:HIS:CG	42:RC:150:THR:HG21	2.51	0.46
41:RD:389:PHE:CD1	41:RD:395:LEU:HD21	2.50	0.46
42:RI:258:ASN:HD21	42:RI:352:LYS:HD3	1.79	0.46
41:RJ:253:LEU:HD22	41:RJ:253:LEU:HA	1.77	0.46
41:RL:179:VAL:HG23	41:RL:180:VAL:HG23	1.96	0.46
42:SE:180:ALA:HB3	42:SE:183:GLU:HB2	1.97	0.46
41:SF:71:GLY:O	41:SF:72:THR:C	2.53	0.46
41:SF:405:GLU:O	41:SF:407:GLU:N	2.49	0.46
42:SI:357:TYR:O	42:SI:358:GLN:C	2.53	0.46
42:SK:27:GLU:HG3	42:SK:28:HIS:HD2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:SL:24:ILE:HA	41:SL:27:GLU:HG2	1.96	0.46
41:TD:188:SER:O	41:TD:192:LEU:N	2.42	0.46
42:TE:264:ARG:NH2	42:TE:431:ASP:OD2	2.48	0.46
41:TF:257:MET:HG2	41:TF:266:PHE:CE1	2.50	0.46
42:TI:104:ALA:HB1	42:TI:411:GLU:O	2.16	0.46
42:TI:214:ARG:HA	42:TI:214:ARG:HD3	1.52	0.46
41:TJ:68:LEU:HD12	41:TJ:97:ALA:HB2	1.98	0.46
41:TJ:393:ALA:O	41:TJ:395:LEU:N	2.48	0.46
42:TK:311:LYS:HB2	42:TK:311:LYS:HE3	1.58	0.46
41:TL:212:PHE:C	41:TL:213:ARG:HD3	2.36	0.46
42:UC:399:TYR:CE2	42:UC:418:PHE:HB3	2.51	0.46
41:UF:62:ARG:HG3	41:UF:123:GLU:HG2	1.97	0.46
42:UG:18:ASN:HD21	42:UG:78:VAL:HG22	1.80	0.46
41:UL:193:VAL:HG23	41:UL:265:PHE:CE2	2.48	0.46
42:VC:107:HIS:CE1	42:VC:152:LEU:HD13	2.50	0.46
41:VD:5:VAL:HG12	41:VD:62:ARG:HB3	1.98	0.46
42:VK:422:ARG:HD2	42:VK:422:ARG:HA	1.52	0.46
42:WC:213:CYS:HA	42:WC:217:LEU:HB2	1.97	0.46
41:WH:24:ILE:HG22	41:WH:51:TYR:HE1	1.80	0.46
41:WH:98:GLY:O	41:WH:99:ASN:C	2.54	0.46
41:WJ:141:GLY:O	41:WJ:145:SER:OG	2.32	0.46
42:WM:204:VAL:HB	42:WM:209:ILE:HD11	1.96	0.46
8:1Y:115:LYS:HE3	42:AE:264:ARG:NH1	2.30	0.46
10:2G:94:LEU:HD12	42:KI:116:ASP:HB3	1.98	0.46
11:2K:323:GLN:HE21	42:VK:366:GLY:N	2.13	0.46
19:3K:485:TYR:OH	19:3K:497:GLU:N	2.48	0.46
19:3L:511:TYR:HB2	42:EK:39:ASP:HB3	1.97	0.46
20:3P:206:LYS:HG2	42:BI:58:ALA:CA	2.40	0.46
25:4J:149:LEU:HD11	25:4J:201:ILE:HD11	1.97	0.46
30:5A:112:LEU:HG	30:5A:113:SER:H	1.80	0.46
31:5D:45:SER:HB2	31:5D:106:SER:HB2	1.97	0.46
31:5F:68:LEU:HD13	31:5F:71:LEU:HD12	1.98	0.46
32:5N:328:LEU:O	32:5O:211:SER:HB2	2.14	0.46
33:5S:185:ILE:CD1	33:5T:324:ARG:HA	2.46	0.46
33:5T:170:GLN:H	33:5T:170:GLN:HG2	1.64	0.46
33:5X:307:LYS:HE3	33:5Y:53:THR:HG21	1.96	0.46
34:6A:124:THR:O	34:6A:125:SER:C	2.53	0.46
34:6G:420:LEU:HD21	34:6H:146:LEU:HD21	1.98	0.46
34:6G:467:TYR:CE1	35:6W:9:THR:HG22	2.50	0.46
34:6H:79:THR:HB	35:6Q:41:LEU:HD12	1.97	0.46
34:6H:240:ALA:HA	34:6H:321:LEU:HD21	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:6L:57:LYS:HE2	34:6L:57:LYS:HB2	1.74	0.46
34:6M:385:ALA:O	34:6M:389:LYS:HG2	2.15	0.46
35:6S:132:LEU:HD22	35:6S:201:ILE:HG12	1.98	0.46
35:6S:329:ILE:HD11	35:6S:406:GLU:HG2	1.97	0.46
35:6T:351:LYS:HB3	35:6U:238:VAL:HB	1.98	0.46
36:6Y:23:LEU:HD21	42:GE:410:GLY:HA2	1.97	0.46
37:7D:27:GLY:N	42:TE:338:LYS:HE2	2.30	0.46
41:AB:42:LEU:HD23	41:AB:45:GLU:HG3	1.96	0.46
42:AE:238:ILE:HG23	42:AE:255:PHE:CE2	2.51	0.46
42:AG:195:LEU:HD22	42:AG:264:ARG:HE	1.80	0.46
42:AI:122:ILE:HD12	42:AI:157:LEU:HD11	1.97	0.46
41:AL:317:PHE:HB3	41:AL:321:MET:SD	2.55	0.46
42:BC:27:GLU:HA	42:BC:361:THR:HG21	1.97	0.46
41:BD:28:HIS:O	41:BD:29:GLY:C	2.53	0.46
42:BE:211:ASP:OD1	42:BE:304:LYS:NZ	2.46	0.46
42:BI:140:SER:O	42:BI:142:GLY:N	2.49	0.46
42:BI:259:LEU:HD11	42:BI:268:PRO:HB3	1.96	0.46
42:CC:88:HIS:HB3	42:CC:91:GLN:CB	2.36	0.46
42:CC:131:GLY:O	42:CC:132:LEU:C	2.53	0.46
41:CD:86:ARG:CB	41:CD:89:ASN:HB2	2.46	0.46
41:CD:113:VAL:HA	41:CD:116:VAL:CG1	2.45	0.46
42:CE:115:ILE:HA	42:CE:118:VAL:HG12	1.97	0.46
42:CE:211:ASP:O	42:CE:215:ARG:HG2	2.16	0.46
41:CF:427:ASP:O	41:CF:428:ALA:C	2.54	0.46
42:CG:109:THR:HB	42:CG:110:ILE:H	1.56	0.46
42:CG:319:TYR:CD2	42:CG:323:VAL:HG11	2.51	0.46
42:CI:326:LYS:HE3	41:CJ:220:PRO:HG2	1.97	0.46
41:CL:67:ASP:N	41:CL:67:ASP:OD1	2.47	0.46
42:DG:339:ARG:O	42:DG:339:ARG:NH1	2.36	0.46
42:DI:206:ASN:ND2	45:DI:501:GTP:O2'	2.48	0.46
42:DK:305:CYS:SG	42:DK:305:CYS:O	2.74	0.46
41:DL:350:LYS:HD2	41:DL:351:THR:N	2.31	0.46
42:DM:328:VAL:O	42:DM:332:ILE:HG12	2.15	0.46
41:ED:1:MET:O	41:ED:3:GLU:HG2	2.15	0.46
41:EH:304:ASP:O	41:EH:306:ARG:N	2.49	0.46
42:EI:175:PRO:HB3	42:EI:390:ARG:NH1	2.30	0.46
41:EL:60:VAL:HA	41:EL:61:PRO:HD3	1.76	0.46
42:EM:188:ILE:HG21	42:EM:395:PHE:CD2	2.51	0.46
42:EM:252:LEU:HD13	42:EM:255:PHE:HZ	1.80	0.46
42:EM:300:ASN:O	42:EM:301:GLN:C	2.54	0.46
41:FD:77:ARG:O	41:FD:79:GLY:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:FD:257:MET:O	41:FD:258:VAL:C	2.53	0.46
41:FD:393:ALA:O	41:FD:394:PHE:C	2.54	0.46
41:FF:246:LEU:HB2	41:FF:353:VAL:H	1.79	0.46
41:FJ:334:GLN:OE1	41:FJ:348:ASN:N	2.48	0.46
41:FL:323:MET:SD	41:FL:353:VAL:HG21	2.55	0.46
41:FL:334:GLN:HE21	41:FL:346:PRO:HB2	1.81	0.46
42:GG:26:LEU:HD12	42:GG:363:VAL:HG12	1.98	0.46
41:GH:110:ALA:HA	41:GH:113:VAL:HG23	1.98	0.46
41:GJ:261:PRO:HD3	42:GK:406:HIS:CD2	2.50	0.46
41:GL:239:CYS:HB3	41:GL:247:ASN:HB2	1.97	0.46
41:HF:183:TYR:HE1	41:HF:389:PHE:HB2	1.80	0.46
41:HH:152:ILE:HG21	41:HH:196:THR:HG22	1.97	0.46
41:HH:187:LEU:HD11	41:HH:408:PHE:HE1	1.81	0.46
42:HI:217:LEU:O	42:HI:219:ILE:N	2.49	0.46
42:HI:221:ARG:N	42:HI:222:PRO:HD3	2.30	0.46
41:HJ:31:ASP:O	41:HJ:32:PRO:C	2.54	0.46
42:HM:174:ALA:HB3	42:HM:177:VAL:O	2.15	0.46
41:ID:190:HIS:HD2	41:ID:411:ALA:HA	1.81	0.46
42:II:261:PRO:O	41:IJ:396:HIS:NE2	2.34	0.46
42:IK:268:PRO:HB2	42:IK:378:LEU:HB3	1.96	0.46
41:IL:42:LEU:HD23	41:IL:356:ILE:HD11	1.98	0.46
42:JE:210:TYR:HE1	42:JE:227:LEU:HD22	1.81	0.46
41:JL:20:PHE:HA	41:JL:230:SER:HB3	1.97	0.46
42:KK:319:TYR:N	42:KK:354:GLY:O	2.40	0.46
42:KM:44:GLY:HA3	42:KM:244:PHE:HD2	1.81	0.46
41:KN:203:ASP:OD2	41:KN:302:ALA:N	2.42	0.46
42:LI:167:LEU:HD23	42:LI:202:PHE:HE1	1.80	0.46
41:LJ:36:TYR:OH	41:LJ:40:SER:O	2.25	0.46
41:LL:10:GLY:O	41:LL:14:ASN:ND2	2.49	0.46
42:LM:195:LEU:HD11	42:LM:428:LEU:HD22	1.98	0.46
42:LM:231:ILE:HA	42:LM:234:ILE:HD12	1.97	0.46
41:LN:178:THR:HB	41:LN:181:GLU:HG3	1.97	0.46
41:MD:200:TYR:OH	41:MD:236:VAL:HG11	2.16	0.46
42:MG:338:LYS:H	42:MG:338:LYS:HG2	1.46	0.46
41:MH:317:PHE:HB3	41:MH:321:MET:HE1	1.97	0.46
42:MK:384:ILE:HD11	42:MK:388:TRP:HE1	1.79	0.46
41:ML:244:GLY:HA3	41:ML:354:CYS:HA	1.98	0.46
41:ML:312:THR:HA	41:ML:348:ASN:HB3	1.97	0.46
41:ML:392:LYS:HD2	41:ML:395:LEU:HD22	1.98	0.46
42:MM:93:ILE:HD13	42:MM:118:VAL:HG12	1.97	0.46
42:NC:100:ALA:O	42:NC:102:ASN:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:ND:91:VAL:HG12	41:ND:112:LEU:HD13	1.97	0.46
41:NH:334:GLN:HA	41:NH:341:PHE:CD1	2.51	0.46
41:NJ:60:VAL:HG11	41:NJ:86:ARG:NH1	2.31	0.46
41:NJ:383:GLU:HA	41:NJ:386:THR:HG22	1.97	0.46
41:NL:112:LEU:HD23	41:NL:147:MET:HE3	1.97	0.46
41:OB:100:ASN:O	41:OB:101:TRP:C	2.54	0.46
42:OC:220:GLU:OE1	42:OC:221:ARG:HG2	2.16	0.46
41:OD:47:ILE:HG22	41:OD:51:TYR:HB2	1.97	0.46
42:OE:438:ASP:OD1	42:OE:439:SER:N	2.48	0.46
41:OF:378:PHE:HE2	41:OF:422:TYR:HE2	1.64	0.46
42:OG:172:TYR:CE2	42:OG:387:ALA:HB1	2.48	0.46
41:OH:17:GLY:HA2	41:OH:20:PHE:HB3	1.98	0.46
41:OH:358:PRO:HD3	41:OH:364:SER:HB3	1.98	0.46
42:PA:84:ARG:O	42:PA:86:LEU:N	2.48	0.46
42:PA:234:ILE:O	42:PA:238:ILE:HG22	2.16	0.46
42:PA:290:GLU:O	42:PA:291:ILE:C	2.54	0.46
41:PB:188:SER:O	41:PB:189:VAL:C	2.53	0.46
42:PC:104:ALA:HB2	42:PC:413:MET:HG3	1.97	0.46
42:PC:183:GLU:HA	42:PC:186:ASN:HD21	1.79	0.46
42:PE:430:LYS:HE3	42:PE:430:LYS:HB3	1.60	0.46
41:PF:2:ARG:HA	41:PF:129:CYS:HB3	1.98	0.46
42:PG:102:ASN:HD21	42:PG:104:ALA:HB3	1.81	0.46
42:PI:401:LYS:O	42:PI:402:ARG:C	2.54	0.46
41:PJ:26:ASP:O	41:PJ:29:GLY:N	2.47	0.46
42:PK:132:LEU:HG	42:PK:164:LYS:HE2	1.98	0.46
41:QD:366:THR:HG22	41:QD:368:ILE:HG23	1.97	0.46
41:QH:347:ASN:ND2	42:QI:181:VAL:HA	2.29	0.46
42:QI:363:VAL:O	42:QI:365:GLY:N	2.49	0.46
41:QJ:284:LEU:HD12	41:QJ:284:LEU:HA	1.80	0.46
42:QK:31:GLN:HE21	42:QK:33:ASP:HB3	1.79	0.46
42:QK:109:THR:OG1	42:QK:110:ILE:N	2.49	0.46
41:QL:354:CYS:SG	41:QL:355:ASP:N	2.88	0.46
42:RC:195:LEU:HD13	42:RC:428:LEU:HD11	1.98	0.46
41:RH:24:ILE:HA	41:RH:27:GLU:HB3	1.98	0.46
42:RI:312:TYR:CE2	42:RI:341:ILE:HG13	2.51	0.46
42:RK:90:GLU:OE1	42:RK:90:GLU:N	2.47	0.46
41:RL:317:PHE:HB3	41:RL:321:MET:HE1	1.97	0.46
42:SC:139:HIS:CD2	42:SC:150:THR:HG21	2.51	0.46
41:SD:63:ALA:O	41:SD:89:ASN:ND2	2.49	0.46
41:SD:170:VAL:N	41:SD:202:ILE:O	2.42	0.46
41:SD:259:PRO:HB2	41:SD:260:PHE:HD1	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:SF:252:LYS:HG3	41:SF:350:LYS:HZ1	1.80	0.46
41:SF:318:ARG:O	41:SF:364:SER:N	2.45	0.46
41:SH:113:VAL:HA	41:SH:116:VAL:HG12	1.97	0.46
41:SH:215:LEU:HG	41:SH:273:LEU:HB3	1.97	0.46
42:SI:133:GLN:HE22	42:SI:242:LEU:HD13	1.80	0.46
41:SJ:106:TYR:CZ	41:SJ:403:MET:HG3	2.50	0.46
41:SJ:173:PRO:HD3	41:SJ:380:ARG:HE	1.81	0.46
41:SL:276:ARG:H	41:SL:276:ARG:HG2	1.31	0.46
42:TE:275:VAL:HA	42:TE:368:LEU:HD21	1.97	0.46
41:TF:156:ARG:NH1	41:TF:195:ASN:O	2.47	0.46
42:TI:185:TYR:HE1	42:TI:405:VAL:HG23	1.80	0.46
42:TI:195:LEU:HD23	42:TI:195:LEU:HA	1.78	0.46
42:TK:262:TYR:HB2	42:TK:265:ILE:HD11	1.97	0.46
42:TK:401:LYS:O	42:TK:402:ARG:C	2.53	0.46
42:UG:251:ASP:H	42:UG:254:GLU:HG3	1.80	0.46
42:UI:163:LYS:CD	42:UI:164:LYS:H	2.28	0.46
42:UM:422:ARG:HH21	42:UM:426:ALA:HB2	1.81	0.46
41:VF:95:SER:HB3	41:VF:108:GLU:HG3	1.98	0.46
41:VJ:139:LEU:HD12	41:VJ:170:VAL:HG23	1.97	0.46
41:VJ:311:LEU:O	41:VJ:348:ASN:ND2	2.34	0.46
41:VL:21:TRP:O	41:VL:25:SER:OG	2.34	0.46
41:WF:284:LEU:HD13	41:WF:362:LYS:HB3	1.98	0.46
42:WI:114:LEU:HD23	42:WI:114:LEU:HA	1.77	0.46
3:II:190:ALA:C	41:TJ:276:ARG:HE	2.19	0.46
7:1T:15:TRP:HZ2	42:IE:79:ARG:HD3	1.80	0.46
9:2D:310:LYS:HE3	42:IE:285:GLN:HA	1.97	0.46
11:2L:204:ILE:HD11	42:UG:370:LYS:HG2	1.96	0.46
16:3C:48:PRO:HG3	41:VF:290:THR:HG22	1.96	0.46
19:3K:281:ARG:NE	41:DH:219:THR:HG21	2.31	0.46
19:3L:455:PRO:HG3	19:3L:463:GLY:HA3	1.97	0.46
20:3N:8:LYS:HE3	41:KD:74:ASP:OD2	2.16	0.46
22:3Y:41:GLN:HA	22:3Y:44:ARG:HE	1.81	0.46
22:3Z:244:VAL:HG11	22:3Z:259:THR:HG23	1.97	0.46
27:4R:146:ILE:N	27:4R:147:PRO:HD2	2.30	0.46
30:5A:285:ARG:NH2	42:LE:370:LYS:O	2.48	0.46
30:5A:316:LYS:HD2	41:LD:276:ARG:NH2	2.31	0.46
33:5S:106:LYS:HE3	33:5S:254:LEU:HD13	1.98	0.46
33:5S:293:LEU:HB3	33:5S:363:LEU:HD13	1.97	0.46
33:5T:389:LYS:HD3	33:5T:389:LYS:HA	1.40	0.46
33:5X:258:ARG:NH2	33:5X:397:LEU:HB2	2.30	0.46
34:6A:205:ARG:HG3	34:6A:468:ILE:HG21	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:6A:313:SER:O	34:6A:314:GLU:C	2.54	0.46
34:6B:99:TRP:O	34:6B:103:ASN:ND2	2.46	0.46
34:6B:127:LEU:HD21	34:6C:433:THR:HG22	1.98	0.46
34:6C:358:LYS:CG	34:6C:462:LYS:HB3	2.41	0.46
34:6G:181:LEU:HD11	34:6G:233:MET:HB3	1.97	0.46
34:6M:160:ILE:HG13	34:6M:254:LEU:HD12	1.97	0.46
35:6U:305:GLY:HA2	35:6U:308:CYS:HB3	1.98	0.46
36:6Z:22:ARG:HD2	41:GJ:156:ARG:HH22	1.81	0.46
37:7C:127:ARG:HA	37:7C:127:ARG:HD2	1.65	0.46
42:AG:3:GLU:N	42:AG:3:GLU:OE1	2.48	0.46
42:AG:223:THR:HG23	42:AG:225:THR:H	1.80	0.46
42:AG:264:ARG:CZ	42:AG:428:LEU:HD13	2.45	0.46
42:AI:138:PHE:HZ	42:AI:235:VAL:HG11	1.81	0.46
41:AL:395:LEU:HD22	41:AL:395:LEU:HA	1.68	0.46
42:BC:191:THR:HA	42:BC:194:THR:HG22	1.97	0.46
42:BG:200:CYS:HB2	42:BG:256:GLN:HG2	1.96	0.46
41:BH:295:ASP:OD1	41:BH:295:ASP:N	2.46	0.46
42:BI:243:ARG:HB3	42:BI:244:PHE:H	1.43	0.46
41:BL:31:ASP:OD2	41:BL:35:THR:OG1	2.34	0.46
42:CE:167:LEU:HD22	42:CE:200:CYS:HB2	1.97	0.46
41:CF:183:TYR:CZ	41:CF:388:MET:HB3	2.51	0.46
42:CI:187:SER:O	42:CI:190:THR:OG1	2.33	0.46
41:CJ:204:ASN:OD1	43:CJ:501:GDP:N2	2.46	0.46
41:CJ:239:CYS:HB2	41:CJ:248:ALA:O	2.16	0.46
41:CL:134:GLN:NE2	41:CL:165:ASN:HB2	2.30	0.46
41:DB:10:GLY:O	41:DB:14:ASN:ND2	2.41	0.46
41:DF:330:MET:SD	41:DF:349:VAL:HG11	2.56	0.46
41:DF:415:MET:HE3	41:DF:415:MET:O	2.16	0.46
41:DH:324:LYS:O	41:DH:328:GLU:HB2	2.16	0.46
42:DI:3:GLU:N	42:DI:3:GLU:OE2	2.48	0.46
41:DJ:266:PHE:HA	41:DJ:370:ASN:HA	1.97	0.46
42:DM:16:ILE:HG12	42:DM:231:ILE:HG21	1.97	0.46
42:DM:246:GLY:HA2	42:DM:357:TYR:CG	2.51	0.46
42:DM:367:ASP:OD1	42:DM:368:LEU:N	2.49	0.46
42:EC:209:ILE:HG21	42:EC:227:LEU:HB3	1.97	0.46
41:ED:163:ILE:HD11	41:ED:251:ARG:HB2	1.98	0.46
42:EG:122:ILE:HD12	42:EG:122:ILE:HA	1.70	0.46
42:EG:319:TYR:N	42:EG:354:GLY:O	2.46	0.46
42:EI:349:THR:OG1	42:EI:350:GLY:N	2.49	0.46
41:EJ:66:VAL:HG12	41:EJ:91:VAL:HB	1.97	0.46
41:EJ:192:LEU:HD23	41:EJ:199:THR:HG21	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:EK:256:GLN:O	42:EK:258:ASN:N	2.42	0.46
42:EM:258:ASN:HB3	42:EM:352:LYS:HG3	1.97	0.46
42:EM:273:ALA:C	42:EM:275:VAL:H	2.19	0.46
42:FC:23:LEU:O	42:FC:24:TYR:C	2.53	0.46
41:FD:351:THR:HG23	42:FE:179:THR:HA	1.97	0.46
42:FG:2:ARG:HD3	42:FG:2:ARG:H	1.80	0.46
42:FG:319:TYR:O	42:FG:356:ASN:N	2.47	0.46
41:FJ:97:ALA:O	41:FJ:103:LYS:HD2	2.16	0.46
42:FM:107:HIS:CE1	42:FM:152:LEU:HB2	2.51	0.46
42:FM:143:GLY:O	42:FM:147:SER:N	2.49	0.46
42:FM:259:LEU:HD13	42:FM:268:PRO:HG2	1.96	0.46
42:GC:352:LYS:HD2	41:GD:177:ASP:O	2.15	0.46
41:GF:28:HIS:HE2	41:GF:241:ARG:HE	1.64	0.46
42:GG:388:TRP:O	42:GG:392:ASP:N	2.40	0.46
41:GH:304:ASP:OD2	41:GH:307:HIS:ND1	2.48	0.46
41:GJ:156:ARG:HD3	41:GJ:156:ARG:HA	1.50	0.46
41:HD:86:ARG:NH1	41:HD:88:ASP:HB2	2.30	0.46
41:HD:86:ARG:HD2	41:ID:281:TYR:HB3	1.98	0.46
41:HL:385:PHE:HZ	41:HL:408:PHE:HB3	1.80	0.46
41:IF:50:TYR:CD2	41:IF:241:ARG:HD3	2.51	0.46
42:IG:88:HIS:HE1	41:JF:278:SER:HB2	1.81	0.46
42:II:70:LEU:HA	42:II:95:GLY:HA3	1.98	0.46
41:IJ:139:LEU:HD21	41:IJ:168:SER:HB2	1.98	0.46
42:IK:296:PHE:CD2	42:IK:335:ILE:HG12	2.51	0.46
41:IL:95:SER:OG	41:IL:96:GLY:N	2.48	0.46
41:IN:286:VAL:HG22	41:IN:321:MET:HG2	1.98	0.46
41:JD:4:ILE:HD11	41:JD:240:LEU:HD22	1.97	0.46
41:JF:2:ARG:O	41:JF:240:LEU:HD21	2.16	0.46
42:JG:99:ALA:HA	42:JG:110:ILE:HD11	1.98	0.46
41:JH:169:VAL:HG22	41:JH:202:ILE:HD11	1.97	0.46
41:JH:401:GLU:OE2	41:JH:401:GLU:N	2.46	0.46
42:JM:223:THR:H	42:JM:226:ASN:HD21	1.63	0.46
42:KE:241:SER:OG	42:KE:250:VAL:O	2.23	0.46
42:KE:288:VAL:HG23	42:KE:373:ARG:HD3	1.97	0.46
41:KF:49:VAL:HG11	41:KF:241:ARG:HG2	1.98	0.46
41:KF:190:HIS:CD2	41:KF:411:ALA:HA	2.46	0.46
41:KL:192:LEU:O	41:KL:196:THR:OG1	2.27	0.46
42:LC:414:GLU:OE2	42:LC:414:GLU:N	2.45	0.46
41:LH:215:LEU:HB3	41:LH:217:LEU:HD13	1.98	0.46
41:LN:341:PHE:HB3	41:LN:348:ASN:HD22	1.81	0.46
41:MH:378:PHE:HA	41:MH:381:ILE:HG22	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:ML:100:ASN:ND2	41:ML:401:GLU:OE2	2.49	0.46
41:ML:193:VAL:HA	41:ML:264:HIS:CE1	2.51	0.46
41:MN:358:PRO:HB2	41:MN:361:LEU:HD12	1.98	0.46
41:NB:218:THR:HG22	41:NB:276:ARG:HH12	1.81	0.46
42:NC:186:ASN:OD1	42:NC:186:ASN:N	2.49	0.46
41:ND:293:MET:HG2	41:ND:367:PHE:HB2	1.98	0.46
42:NI:280:LYS:HA	42:NI:280:LYS:HD3	1.40	0.46
41:NJ:61:PRO:CD	41:NJ:84:ILE:HG12	2.46	0.46
41:NL:61:PRO:HD3	41:NL:84:ILE:HG12	1.97	0.46
41:OB:34:GLY:HA3	41:OB:58:LYS:HD3	1.96	0.46
41:OD:1:MET:HB2	41:OD:48:ASN:ND2	2.31	0.46
42:OE:16:ILE:HA	42:OE:228:ASN:HB3	1.97	0.46
42:OG:97:GLU:HB2	42:OG:110:ILE:HD13	1.98	0.46
41:OH:321:MET:HE2	41:OH:321:MET:HB2	1.75	0.46
42:OI:417:GLU:O	42:OI:421:ALA:N	2.42	0.46
41:OJ:58:LYS:O	41:OJ:60:VAL:N	2.49	0.46
41:OL:32:PRO:HG3	41:OL:81:PHE:HE2	1.80	0.46
41:OL:86:ARG:HD2	41:PL:281:TYR:HB2	1.98	0.46
42:PA:171:ILE:H	42:PA:171:ILE:HG12	1.48	0.46
41:PB:84:ILE:HA	41:QB:281:TYR:OH	2.16	0.46
41:PB:256:ASN:ND2	42:PC:182:VAL:HG23	2.31	0.46
41:PD:19:LYS:H	41:PD:19:LYS:HG2	1.52	0.46
41:PH:117:LEU:HD11	41:PH:155:ILE:HG12	1.96	0.46
42:PI:242:LEU:HD21	42:PI:252:LEU:HD12	1.97	0.46
41:PJ:5:VAL:HG22	41:PJ:62:ARG:NE	2.31	0.46
41:PJ:271:ALA:CB	41:PJ:365:ALA:HB3	2.46	0.46
41:PJ:286:VAL:HG13	41:PJ:329:GLN:HE21	1.80	0.46
41:PJ:337:ASN:O	41:PJ:339:SER:N	2.49	0.46
42:QE:202:PHE:CZ	42:QE:378:LEU:HD13	2.51	0.46
41:QH:214:THR:O	41:QH:215:LEU:C	2.54	0.46
41:QJ:324:LYS:CB	42:QK:222:PRO:HD2	2.45	0.46
41:QL:7:LEU:HD21	41:QL:151:LEU:HD12	1.97	0.46
41:RB:21:TRP:CH2	41:RB:50:TYR:HB3	2.50	0.46
42:RC:168:GLU:HB2	42:RC:201:ALA:HA	1.97	0.46
41:RF:214:THR:OG1	41:RF:215:LEU:N	2.49	0.46
42:RG:1:MET:SD	42:RG:2:ARG:NE	2.89	0.46
42:RI:269:LEU:N	42:RI:379:SER:O	2.45	0.46
42:RK:336:LYS:HD2	42:RK:343:PHE:HE2	1.81	0.46
41:SD:407:GLU:HA	41:SD:410:GLU:HG2	1.98	0.46
42:SE:29:GLY:O	42:SE:30:ILE:C	2.54	0.46
42:SE:370:LYS:HZ1	42:SE:372:GLN:HB3	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:SF:248:ALA:HA	41:SF:252:LYS:HG2	1.98	0.46
41:SH:55:THR:OG1	41:TH:282:ARG:O	2.29	0.46
41:SH:68:LEU:HB2	41:SH:143:THR:HG22	1.98	0.46
41:SH:278:SER:HA	41:SH:281:TYR:HD2	1.80	0.46
42:SI:139:HIS:O	42:SI:170:SER:HA	2.16	0.46
42:SM:392:ASP:OD1	42:SM:393:HIS:N	2.49	0.46
42:TE:79:ARG:NH2	42:TE:92:LEU:O	2.48	0.46
41:TF:347:ASN:H	42:TG:394:LYS:NZ	2.13	0.46
41:TH:375:GLN:HB2	41:TH:419:VAL:HG23	1.98	0.46
41:TJ:105:HIS:HA	41:TJ:150:LEU:HD22	1.98	0.46
42:TK:50:ASN:HD22	42:TK:50:ASN:HA	1.55	0.46
42:TK:173:PRO:HB2	42:TK:391:LEU:HD21	1.96	0.46
42:TK:214:ARG:HD2	42:TK:214:ARG:HA	1.38	0.46
42:TK:221:ARG:O	42:TK:222:PRO:C	2.54	0.46
41:TL:262:ARG:HH22	41:TL:421:GLU:HG3	1.81	0.46
42:UE:84:ARG:HG3	42:UE:85:GLN:HG3	1.97	0.46
42:UE:169:PHE:HZ	42:UE:238:ILE:HD13	1.79	0.46
41:UH:58:LYS:HZ3	41:VH:281:TYR:HE1	1.62	0.46
41:UJ:8:GLN:HE22	41:UJ:21:TRP:HE1	1.64	0.46
41:UJ:263:LEU:HD13	41:UJ:422:TYR:CE1	2.50	0.46
42:UM:320:ARG:HB2	42:UM:374:ALA:HB3	1.97	0.46
41:VD:25:SER:OG	41:VD:51:TYR:OH	2.29	0.46
41:VF:58:LYS:HE2	41:VF:58:LYS:HB3	1.59	0.46
41:VF:111:GLU:N	41:VF:111:GLU:OE2	2.49	0.46
41:VF:274:THR:HG22	41:VF:282:ARG:HD3	1.97	0.46
41:VH:226:ASN:OD1	43:VH:501:GDP:N1	2.49	0.46
42:VM:208:ALA:O	42:VM:212:ILE:HG12	2.14	0.46
42:WC:69:ASP:OD1	42:WC:145:THR:HG21	2.15	0.46
42:WE:173:PRO:HG2	42:WE:391:LEU:HD21	1.98	0.46
41:WJ:237:THR:HG22	41:WJ:250:LEU:HD21	1.96	0.46
41:WL:170:VAL:HG21	41:WL:377:LEU:HD21	1.97	0.46
42:WM:10:GLY:HA2	42:WM:145:THR:HG23	1.97	0.46
42:WM:165:SER:HB2	42:WM:255:PHE:HZ	1.80	0.46
2:1D:232:LEU:HD12	26:4K:286:LEU:HD12	1.96	0.46
3:1I:153:LEU:HB3	23:4D:109:LEU:HD11	1.97	0.46
4:1K:54:GLU:OE1	42:JC:229:ARG:NH2	2.49	0.46
4:1K:120:ARG:NH1	41:IF:71:GLY:O	2.48	0.46
9:2D:464:TYR:CE2	41:HJ:53:GLU:HG3	2.51	0.46
9:2D:567:TYR:CG	41:IN:276:ARG:CD	2.99	0.46
19:3K:310:ARG:O	41:CH:227:HIS:NE2	2.46	0.46
20:3O:638:VAL:HG22	20:3O:673:GLN:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:3T:221:ILE:HG23	21:3T:226:LYS:HG2	1.96	0.46
21:3T:229:ARG:HA	21:3T:232:LYS:HG2	1.98	0.46
22:4A:190:PHE:HE1	41:DJ:283:ALA:HB1	1.80	0.46
24:4G:247:GLU:HG2	24:4G:250:LYS:HE3	1.96	0.46
24:4G:443:ALA:O	24:4G:446:GLU:N	2.42	0.46
25:4I:326:CYS:SG	25:4I:327:GLY:N	2.89	0.46
27:4O:87:HIS:NE2	42:WC:126:ALA:O	2.30	0.46
31:5D:115:ARG:HH22	31:5D:121:ASP:HB2	1.81	0.46
32:5O:384:TYR:O	32:5O:385:ILE:C	2.53	0.46
33:5T:166:GLN:O	33:5T:170:GLN:HG2	2.16	0.46
34:6G:170:GLU:OE2	34:6G:322:ARG:NH2	2.48	0.46
34:6J:126:ARG:HA	34:6J:126:ARG:HD3	1.71	0.46
34:6L:54:THR:O	34:6L:55:TYR:C	2.54	0.46
35:6U:207:HIS:CD2	35:6U:267:ARG:HG2	2.50	0.46
38:7H:206:ARG:HH12	42:HC:117:LEU:H	1.62	0.46
42:AC:206:ASN:OD1	45:AC:501:GTP:O2'	2.33	0.46
42:AC:306:ASP:OD1	42:AC:306:ASP:N	2.49	0.46
42:AE:283:HIS:HB3	42:KG:88:HIS:CD2	2.51	0.46
42:AI:112:LYS:HE2	42:AI:112:LYS:HB2	1.49	0.46
42:AI:285:GLN:O	42:AI:286:LEU:C	2.54	0.46
42:AK:103:TYR:CE2	42:AK:189:LEU:HB3	2.50	0.46
42:AK:336:LYS:O	42:AK:339:ARG:N	2.44	0.46
42:BC:143:GLY:O	42:BC:186:ASN:ND2	2.48	0.46
41:BD:173:PRO:HG2	41:BD:174:LYS:H	1.80	0.46
41:BD:235:GLY:HA3	41:BD:366:THR:HG21	1.97	0.46
42:BI:252:LEU:HG	42:BI:255:PHE:CZ	2.51	0.46
41:BJ:198:GLU:HA	41:BJ:264:HIS:HB2	1.97	0.46
41:BL:165:ASN:HB3	41:BL:167:PHE:HE1	1.80	0.46
41:BL:221:THR:HG23	41:BL:223:GLY:H	1.80	0.46
41:CD:183:TYR:CZ	41:CD:388:MET:HB3	2.51	0.46
42:CE:71:GLU:HB2	42:CE:98:ASP:HB3	1.97	0.46
41:CF:310:TYR:CE1	41:CF:371:SER:HB3	2.50	0.46
42:CG:212:ILE:HA	42:CG:215:ARG:CG	2.45	0.46
41:CJ:19:LYS:HE2	41:CJ:227:HIS:HD2	1.79	0.46
42:CK:320:ARG:HB3	42:CK:374:ALA:HB3	1.97	0.46
41:CL:64:VAL:HG12	41:CL:66:VAL:HG13	1.98	0.46
41:DB:102:ALA:O	41:DB:106:TYR:N	2.49	0.46
41:DF:198:GLU:HB2	41:DF:266:PHE:CE1	2.51	0.46
42:DG:36:MET:HG3	42:DG:61:HIS:CE1	2.51	0.46
41:DH:164:MET:HE2	41:DH:164:MET:HB3	1.68	0.46
41:DH:178:THR:HG22	41:DH:181:GLU:H	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DH:263:LEU:HG	41:DH:422:TYR:CE2	2.51	0.46
41:DH:264:HIS:ND1	41:DH:264:HIS:O	2.49	0.46
42:DI:267:PHE:HD2	42:DI:388:TRP:CZ2	2.33	0.46
41:DJ:313:VAL:HB	41:DJ:349:VAL:HG13	1.98	0.46
42:DK:110:ILE:C	42:DK:112:LYS:H	2.18	0.46
42:DK:159:VAL:O	42:DK:161:TYR:N	2.48	0.46
42:DM:386:GLU:OE2	42:DM:390:ARG:NH2	2.49	0.46
41:ED:101:TRP:CD1	41:ED:145:SER:HB2	2.51	0.46
41:ED:221:THR:OG1	41:ED:222:TYR:N	2.48	0.46
41:ED:391:ARG:O	41:ED:392:LYS:C	2.54	0.46
42:EE:441:GLU:H	42:EE:441:GLU:HG3	1.58	0.46
41:EH:318:ARG:NH1	41:EH:356:ILE:O	2.49	0.46
41:EH:323:MET:HG3	42:EI:224:TYR:HB2	1.97	0.46
42:EI:7:VAL:HG11	42:EI:153:LEU:HD21	1.98	0.46
41:EL:47:ILE:HG21	41:EL:59:TYR:HE2	1.81	0.46
41:EL:286:VAL:HG21	41:EL:325:GLU:HB3	1.97	0.46
42:EM:69:ASP:HB3	42:EM:75:ILE:HD11	1.98	0.46
42:EM:417:GLU:O	42:EM:418:PHE:C	2.54	0.46
41:FD:117:LEU:HB3	41:FD:121:ARG:HH22	1.81	0.46
42:FG:156:ARG:HA	42:FG:156:ARG:HD2	1.75	0.46
42:FK:383:ALA:O	42:FK:384:ILE:C	2.54	0.46
41:FL:358:PRO:HG3	41:FL:364:SER:HB2	1.98	0.46
42:FM:6:SER:HB3	42:FM:65:ALA:HB2	1.98	0.46
41:GD:19:LYS:O	41:GD:23:VAL:HG23	2.16	0.46
41:GD:139:LEU:O	41:GD:140:GLY:C	2.53	0.46
42:GE:167:LEU:HD23	42:GE:252:LEU:HD23	1.98	0.46
41:GF:274:THR:HG23	41:GF:282:ARG:HD3	1.98	0.46
42:GG:70:LEU:HA	42:GG:95:GLY:HA3	1.97	0.46
41:GH:170:VAL:HG21	41:GH:377:LEU:HD21	1.98	0.46
42:GK:28:HIS:CE1	42:GK:49:PHE:HA	2.51	0.46
41:GL:255:VAL:HG11	42:GM:100:ALA:O	2.15	0.46
42:GM:278:ALA:O	42:GM:279:GLU:C	2.53	0.46
42:HE:68:VAL:HG21	42:HE:118:VAL:HG21	1.97	0.46
42:HE:313:MET:HE1	42:HE:344:VAL:HG11	1.98	0.46
41:HF:4:ILE:HG22	41:HF:132:GLY:N	2.31	0.46
41:HF:274:THR:HG21	41:HF:279:GLN:HB3	1.98	0.46
42:HG:88:HIS:HE1	42:IG:280:LYS:HB3	1.81	0.46
41:HJ:55:THR:HG23	41:IJ:280:GLN:HA	1.97	0.46
42:HK:49:PHE:CE1	42:HK:61:HIS:HD2	2.33	0.46
42:HK:273:ALA:HB2	42:HK:295:CYS:HB3	1.97	0.46
41:HL:170:VAL:HG21	41:HL:377:LEU:HD21	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:IE:261:PRO:O	41:IF:396:HIS:NE2	2.47	0.46
41:IL:48:ASN:O	41:IL:62:ARG:NH2	2.49	0.46
41:JH:107:THR:HG21	41:JH:401:GLU:HB2	1.97	0.46
41:JJ:257:MET:SD	41:JJ:314:ALA:HB2	2.55	0.46
41:JL:255:VAL:HG13	42:JM:182:VAL:HG21	1.98	0.46
41:KD:405:GLU:HA	41:KD:408:PHE:HD2	1.80	0.46
41:KF:178:THR:OG1	41:KF:181:GLU:HG3	2.16	0.46
42:KK:88:HIS:NE2	42:KK:90:GLU:HB2	2.31	0.46
42:KM:49:PHE:C	42:KM:51:THR:H	2.19	0.46
41:LJ:173:PRO:HB3	41:LJ:380:ARG:CZ	2.46	0.46
41:LL:17:GLY:HA2	41:LL:20:PHE:HB3	1.98	0.46
41:LL:180:VAL:O	41:LL:184:ASN:ND2	2.48	0.46
41:LL:392:LYS:HA	41:LL:395:LEU:HD23	1.97	0.46
42:MC:133:GLN:HG2	42:MC:252:LEU:HB2	1.97	0.46
41:MF:186:THR:HG21	41:MF:385:PHE:HB2	1.98	0.46
42:MG:326:LYS:HE2	42:MG:326:LYS:HB2	1.71	0.46
42:NA:265:ILE:HG23	42:NA:432:TYR:CZ	2.50	0.46
41:NB:299:MET:O	41:NB:301:ALA:N	2.47	0.46
42:NG:217:LEU:HD21	42:NG:367:ASP:HB2	1.96	0.46
41:NH:385:PHE:HE1	41:NH:408:PHE:HD2	1.63	0.46
41:NJ:30:ILE:HD11	41:NJ:47:ILE:HD11	1.98	0.46
41:NJ:272:PRO:HG2	41:NJ:361:LEU:HD23	1.98	0.46
41:OB:325:GLU:O	41:OB:326:VAL:C	2.54	0.46
41:OH:210:ILE:HD11	41:OH:300:MET:HA	1.98	0.46
41:OJ:392:LYS:HD3	41:OJ:392:LYS:HA	1.69	0.46
42:OK:319:TYR:HD2	42:OK:323:VAL:HG11	1.80	0.46
41:OL:86:ARG:NE	41:PL:281:TYR:HB2	2.30	0.46
41:OL:173:PRO:HA	41:OL:380:ARG:NE	2.31	0.46
42:PA:362:VAL:O	42:PA:363:VAL:C	2.53	0.46
41:PB:376:GLU:HA	41:PB:379:LYS:HD2	1.98	0.46
41:PB:394:PHE:HA	41:PB:396:HIS:CE1	2.51	0.46
42:PC:8:HIS:HD2	42:PC:17:GLY:HA3	1.79	0.46
42:PC:260:VAL:HG22	41:PD:396:HIS:HE1	1.80	0.46
41:PD:19:LYS:HB2	41:PD:230:SER:HB2	1.98	0.46
42:PE:10:GLY:O	42:PE:11:GLN:C	2.54	0.46
42:PE:304:LYS:HA	42:PE:304:LYS:HD3	1.73	0.46
41:PF:290:THR:HG23	41:PF:291:GLN:HE21	1.81	0.46
42:PG:62:VAL:HG11	42:QG:283:HIS:O	2.14	0.46
42:PG:170:SER:O	42:PG:171:ILE:C	2.54	0.46
42:PG:334:THR:O	42:PG:335:ILE:C	2.53	0.46
41:PH:192:LEU:O	41:PH:194:GLU:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:PH:256:ASN:HD21	42:PI:101:ASN:ND2	2.14	0.46
42:PI:7:VAL:HG13	42:PI:137:ILE:HG23	1.98	0.46
41:PJ:21:TRP:CZ3	41:PJ:61:PRO:HB3	2.51	0.46
41:PL:192:LEU:O	41:PL:193:VAL:C	2.54	0.46
42:QC:70:LEU:HD12	42:QC:95:GLY:HA3	1.96	0.46
42:QG:70:LEU:HB3	42:QG:98:ASP:HA	1.97	0.46
41:QH:104:GLY:HA2	41:QH:109:GLY:H	1.81	0.46
42:QI:140:SER:O	42:QI:141:PHE:C	2.54	0.46
42:QI:185:TYR:O	42:QI:186:ASN:C	2.54	0.46
42:QI:216:ASN:CB	42:QI:275:VAL:HB	2.46	0.46
41:QJ:3:GLU:HG2	41:QJ:130:LEU:HA	1.98	0.46
41:QJ:112:LEU:O	41:QJ:115:SER:N	2.48	0.46
42:RC:51:THR:HG21	42:RC:243:ARG:HB3	1.98	0.46
42:RC:167:LEU:HD11	42:RC:202:PHE:CE2	2.51	0.46
41:RD:173:PRO:O	41:RD:174:LYS:C	2.54	0.46
42:RE:199:ASP:HB3	42:RE:256:GLN:NE2	2.31	0.46
41:RF:166:THR:O	41:RF:199:THR:HA	2.16	0.46
41:RF:210:ILE:HG21	41:RF:228:LEU:HD21	1.98	0.46
42:RG:110:ILE:H	42:RG:112:LYS:HZ2	1.64	0.46
42:RG:222:PRO:HB3	42:RG:226:ASN:ND2	2.30	0.46
41:RH:324:LYS:NZ	42:RI:214:ARG:HD3	2.31	0.46
42:RK:332:ILE:HD12	42:RK:351:PHE:HZ	1.81	0.46
41:RL:250:LEU:HA	41:RL:253:LEU:HB3	1.98	0.46
41:SF:54:ALA:CB	41:SF:58:LYS:HB3	2.44	0.46
41:SF:195:ASN:HD22	41:SF:195:ASN:HA	1.60	0.46
41:SF:404:ASP:O	41:SF:405:GLU:C	2.54	0.46
42:SG:273:ALA:HB2	42:SG:295:CYS:HB3	1.97	0.46
42:SG:377:MET:CE	42:SG:379:SER:HB3	2.46	0.46
42:SI:236:SER:OG	42:SI:237:SER:N	2.49	0.46
42:SK:258:ASN:ND2	42:SK:352:LYS:HD3	2.30	0.46
41:SL:336:LYS:O	41:SL:338:SER:N	2.48	0.46
42:TK:137:ILE:H	42:TK:137:ILE:HG12	1.59	0.46
42:TK:286:LEU:HD22	42:TK:286:LEU:HA	1.73	0.46
42:UC:430:LYS:HB3	42:UC:430:LYS:HE3	1.36	0.46
42:UI:329:ASN:HD21	41:UJ:175:VAL:HG13	1.81	0.46
42:VC:53:PHE:HA	42:VC:62:VAL:O	2.16	0.46
41:VD:25:SER:HB3	41:VD:30:ILE:HB	1.98	0.46
42:VE:217:LEU:HD23	42:VE:367:ASP:HB2	1.98	0.46
42:VG:97:GLU:HB3	42:VG:110:ILE:HG12	1.98	0.46
41:VH:233:MET:HE2	41:VH:233:MET:HB3	1.74	0.46
41:VJ:324:LYS:HD2	42:VK:221:ARG:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:VL:44:LEU:HA	41:VL:47:ILE:HD11	1.96	0.46
42:WE:324:VAL:HG13	42:WE:327:ASP:HB2	1.98	0.46
41:WJ:260:PHE:HE1	42:WK:403:ALA:HA	1.81	0.46
2:1D:228:LYS:NZ	26:4K:282:GLN:HB3	2.31	0.46
2:1E:201:ILE:HD11	26:4L:255:VAL:HG22	1.97	0.46
2:1F:38:MET:HE1	26:4M:80:LEU:HB3	1.97	0.46
9:2D:317:ARG:NH2	41:IF:219:THR:O	2.37	0.46
14:2X:169:THR:HA	42:OG:370:LYS:HZ2	1.79	0.46
19:3K:441:SER:OG	19:3K:450:SER:O	2.29	0.46
19:3L:44:THR:OG1	42:LK:44:GLY:O	2.32	0.46
20:3P:324:LEU:HD12	20:3P:339:LEU:HD21	1.98	0.46
20:3Q:472:VAL:HG12	20:3Q:489:LYS:HD3	1.97	0.46
22:4B:34:THR:HA	42:CM:219:ILE:HG22	1.98	0.46
27:4O:198:ASN:HB2	27:4O:248:VAL:HG12	1.98	0.46
27:4R:82:PRO:HG3	27:4R:103:LEU:HD21	1.97	0.46
30:5A:338:LEU:HB3	42:LC:278:ALA:HB1	1.98	0.46
32:5O:232:ARG:HE	32:5O:232:ARG:HB3	1.54	0.46
33:5S:31:GLN:OE1	33:5T:366:LEU:HA	2.15	0.46
33:5T:328:GLU:O	33:5T:330:CYS:N	2.49	0.46
33:5V:255:GLU:O	33:5V:259:VAL:HG23	2.15	0.46
33:5W:321:ARG:NH1	33:5W:335:GLN:OE1	2.45	0.46
33:5X:373:LEU:O	33:5X:377:ILE:HG12	2.16	0.46
34:6A:344:ASN:O	34:6A:348:THR:HG23	2.16	0.46
34:6C:112:THR:HG22	34:6C:116:ASN:HD21	1.81	0.46
34:6C:164:LEU:HD22	34:6C:254:LEU:HD12	1.98	0.46
34:6C:244:LEU:HD23	34:6C:244:LEU:HA	1.82	0.46
34:6C:276:ASN:HA	34:6D:395:VAL:CG2	2.46	0.46
35:6T:368:LEU:HD21	35:6U:249:GLU:HG3	1.98	0.46
35:6W:105:GLU:OE1	35:6W:108:GLN:NE2	2.49	0.46
37:7D:29:LYS:HD3	37:7D:29:LYS:HA	1.60	0.46
41:AD:36:TYR:OH	41:AD:40:SER:O	2.31	0.46
41:AD:86:ARG:HD2	41:AD:88:ASP:HB2	1.97	0.46
41:AD:313:VAL:O	41:AD:350:LYS:N	2.46	0.46
41:AF:117:LEU:HA	41:AF:120:VAL:HG12	1.97	0.46
41:AH:152:ILE:HG22	41:AH:195:ASN:HB3	1.98	0.46
42:AK:98:ASP:HB3	42:AK:99:ALA:H	1.52	0.46
41:AL:85:PHE:C	41:BL:281:TYR:CE2	2.89	0.46
42:BE:32:PRO:HB3	42:BE:83:TYR:HE2	1.79	0.46
42:BE:186:ASN:OD1	42:BE:408:TYR:OH	2.25	0.46
42:BI:209:ILE:HG12	42:BI:302:MET:HG2	1.96	0.46
41:BJ:228:LEU:HD12	41:BJ:228:LEU:HA	1.61	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BL:309:ARG:O	41:BL:372:THR:N	2.47	0.46
41:CB:1:MET:CE	42:CC:72:PRO:HG3	2.46	0.46
42:CC:346:TRP:O	42:CC:348:PRO:HD3	2.16	0.46
41:CD:323:MET:HG3	42:CE:224:TYR:CG	2.50	0.46
41:CF:258:VAL:HG22	41:CF:266:PHE:CZ	2.50	0.46
41:CJ:8:GLN:HE21	41:CJ:8:GLN:HB3	1.52	0.46
42:CK:98:ASP:O	42:CK:105:ARG:NH1	2.48	0.46
41:CL:156:ARG:NH1	41:CL:162:ARG:O	2.47	0.46
42:CM:318:LEU:HB2	42:CM:376:CYS:HB3	1.97	0.46
41:DB:135:LEU:O	41:DB:166:THR:HA	2.16	0.46
41:DB:198:GLU:HA	41:DB:264:HIS:HB2	1.97	0.46
41:DJ:406:MET:O	41:DJ:407:GLU:C	2.53	0.46
42:DK:280:LYS:HB3	42:DK:280:LYS:HE3	1.79	0.46
41:DL:12:CYS:SG	41:DL:13:GLY:N	2.89	0.46
42:DM:272:TYR:CD1	42:DM:376:CYS:HB2	2.51	0.46
41:ED:10:GLY:O	41:ED:11:GLN:C	2.54	0.46
42:EE:89:PRO:O	42:EE:92:LEU:N	2.49	0.46
42:EE:198:SER:O	42:EE:199:ASP:C	2.54	0.46
41:EF:245:GLN:HB3	41:EF:353:VAL:HG23	1.98	0.46
42:EG:70:LEU:HD12	42:EG:145:THR:HB	1.98	0.46
42:EG:72:PRO:HA	42:EG:94:THR:HG21	1.98	0.46
42:EG:139:HIS:CE1	42:EG:170:SER:HB2	2.51	0.46
42:EG:392:ASP:C	42:EG:394:LYS:H	2.18	0.46
42:EI:139:HIS:NE2	42:EI:168:GLU:OE1	2.36	0.46
42:EK:338:LYS:HB2	42:EK:338:LYS:HE3	1.46	0.46
42:EM:214:ARG:HE	42:EM:214:ARG:HB3	1.60	0.46
42:FC:25:CYS:SG	42:FC:26:LEU:N	2.89	0.46
42:FC:109:THR:OG1	42:FC:110:ILE:N	2.48	0.46
42:FC:308:ARG:H	42:FC:308:ARG:HG3	1.44	0.46
42:FI:115:ILE:HD12	42:FI:156:ARG:HH11	1.80	0.46
41:FL:291:GLN:H	41:FL:291:GLN:HG3	1.45	0.46
41:FL:324:LYS:HD3	42:FM:210:TYR:HB3	1.98	0.46
42:FM:67:PHE:HB2	42:FM:92:LEU:HA	1.97	0.46
41:GJ:192:LEU:O	41:GJ:196:THR:HG22	2.15	0.46
42:GM:2:ARG:HB3	42:GM:133:GLN:HE22	1.81	0.46
42:GM:119:LEU:HD23	42:GM:119:LEU:HA	1.69	0.46
42:HC:183:GLU:HB3	42:HC:184:PRO:HD3	1.98	0.46
42:HE:305:CYS:SG	42:HE:387:ALA:HB2	2.56	0.46
41:HF:167:PHE:CE2	41:HF:233:MET:HG2	2.50	0.46
42:HK:11:GLN:NE2	42:HK:71:GLU:OE1	2.49	0.46
42:HK:388:TRP:O	42:HK:392:ASP:N	2.39	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:HM:191:THR:HA	42:HM:194:THR:HG22	1.97	0.46
42:IE:439:SER:HB2	41:IF:391:ARG:HD3	1.98	0.46
42:IG:36:MET:HG2	42:IG:61:HIS:HE1	1.80	0.46
42:IG:88:HIS:CD2	42:IG:90:GLU:HB2	2.50	0.46
41:IH:311:LEU:HD23	41:IH:342:VAL:HG11	1.98	0.46
41:IJ:258:VAL:HG23	42:IK:407:TRP:HE1	1.80	0.46
41:IL:101:TRP:CD1	41:IL:187:LEU:HD12	2.51	0.46
41:JF:240:LEU:HD12	41:JF:249:ASP:HB2	1.98	0.46
41:KD:46:ARG:HH21	42:KE:72:PRO:HG2	1.81	0.46
42:KK:49:PHE:HE1	42:KK:55:GLU:HB2	1.81	0.46
42:LC:88:HIS:NE2	42:LC:90:GLU:HB2	2.30	0.46
42:LE:293:ASN:ND2	42:ME:127:ASP:OD2	2.49	0.46
42:LE:294:ALA:HA	42:LE:297:GLU:HG3	1.97	0.46
41:LH:136:THR:HG22	41:LH:167:PHE:HB2	1.98	0.46
41:LH:270:PHE:HD1	41:LH:366:THR:HG22	1.79	0.46
41:LL:215:LEU:HG	41:LL:273:LEU:HD21	1.97	0.46
41:LN:149:THR:HB	41:LN:191:GLN:HG2	1.98	0.46
41:LN:281:TYR:HD2	41:MN:60:VAL:HG11	1.81	0.46
42:MC:109:THR:HG22	42:MC:110:ILE:HG12	1.96	0.46
41:MD:2:ARG:HA	41:MD:129:CYS:O	2.16	0.46
41:MD:379:LYS:HD3	41:MD:419:VAL:HG11	1.98	0.46
42:ME:231:ILE:HA	42:ME:234:ILE:HD12	1.97	0.46
42:MG:285:GLN:H	42:MG:285:GLN:HG3	1.48	0.46
41:MH:67:ASP:OD1	41:MH:68:LEU:N	2.49	0.46
42:MI:298:PRO:HB3	42:MI:307:PRO:HD2	1.98	0.46
41:ML:156:ARG:NH1	41:ML:160:PRO:O	2.49	0.46
41:ML:347:ASN:O	41:ML:347:ASN:ND2	2.49	0.46
41:NB:385:PHE:HZ	41:NB:408:PHE:HB3	1.81	0.46
42:NG:264:ARG:HB3	42:NG:265:ILE:H	1.48	0.46
42:NI:428:LEU:HD23	42:NI:428:LEU:HA	1.80	0.46
42:NK:5:ILE:HG13	42:NK:132:LEU:HD11	1.96	0.46
42:NK:182:VAL:HG23	42:NK:186:ASN:HD21	1.81	0.46
42:NK:291:ILE:HD12	42:NK:375:VAL:HG12	1.98	0.46
42:NK:401:LYS:H	42:NK:401:LYS:HG2	1.47	0.46
41:NL:181:GLU:O	41:NL:185:ALA:N	2.49	0.46
41:OB:360:GLY:O	41:OB:361:LEU:C	2.54	0.46
42:OG:403:ALA:O	42:OG:405:VAL:N	2.49	0.46
41:OH:272:PRO:HG2	41:OH:361:LEU:HD13	1.97	0.46
42:PA:139:HIS:HB3	42:PA:150:THR:HG21	1.98	0.46
42:PC:79:ARG:HD3	42:PC:79:ARG:HA	1.70	0.46
42:PC:265:ILE:HD13	42:PC:435:VAL:HG21	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:PC:300:ASN:OD1	42:PC:300:ASN:N	2.49	0.46
42:PE:380:ASN:OD1	42:PE:380:ASN:N	2.48	0.46
42:PE:390:ARG:HE	42:PE:390:ARG:HB2	1.56	0.46
42:PG:385:ALA:C	42:PG:387:ALA:H	2.18	0.46
42:PG:408:TYR:C	42:PG:410:GLY:N	2.69	0.46
41:PH:149:THR:C	41:PH:151:LEU:N	2.67	0.46
41:PH:162:ARG:H	41:PH:162:ARG:HG2	1.33	0.46
42:PI:280:LYS:HB3	42:PI:280:LYS:HE3	1.77	0.46
41:PJ:16:ILE:O	41:PJ:17:GLY:C	2.55	0.46
41:PJ:173:PRO:O	41:PJ:174:LYS:C	2.53	0.46
41:PJ:211:CYS:HB3	41:PJ:217:LEU:HD12	1.98	0.46
41:PL:250:LEU:HD12	41:PL:253:LEU:HD22	1.98	0.46
41:QB:311:LEU:HB2	41:QB:370:ASN:HB3	1.98	0.46
41:QB:327:ASP:HB3	42:QC:177:VAL:HG13	1.98	0.46
41:QB:375:GLN:HE22	41:QB:419:VAL:HG22	1.81	0.46
42:QC:147:SER:O	42:QC:150:THR:OG1	2.24	0.46
42:QE:261:PRO:O	41:QF:396:HIS:NE2	2.43	0.46
42:QG:268:PRO:HA	42:QG:380:ASN:HB3	1.97	0.46
41:QH:188:SER:O	41:QH:189:VAL:C	2.54	0.46
41:QH:309:ARG:HA	41:QH:309:ARG:HD2	1.62	0.46
42:QI:194:THR:O	42:QI:195:LEU:C	2.54	0.46
41:QJ:19:LYS:HZ3	41:QJ:227:HIS:HB2	1.80	0.46
41:QJ:257:MET:HE2	41:QJ:257:MET:HB2	1.69	0.46
42:QK:188:ILE:HD12	42:QK:395:PHE:HB2	1.97	0.46
41:QL:109:GLY:O	41:QL:110:ALA:C	2.54	0.46
41:RB:67:ASP:HA	41:RB:143:THR:HG21	1.98	0.46
42:RE:370:LYS:NZ	42:RE:371:VAL:O	2.47	0.46
41:RF:67:ASP:HB3	41:RF:92:PHE:CE1	2.51	0.46
42:RG:210:TYR:HE1	42:RG:227:LEU:HD11	1.81	0.46
41:RH:412:GLU:O	41:RH:416:ASN:N	2.41	0.46
41:RJ:200:TYR:CD2	41:RJ:266:PHE:HB2	2.51	0.46
41:RJ:217:LEU:O	41:RJ:218:THR:C	2.54	0.46
42:RK:143:GLY:H	42:RK:186:ASN:HD22	1.64	0.46
41:RL:176:SER:OG	41:RL:178:THR:O	2.34	0.46
41:SF:29:GLY:O	41:SF:30:ILE:C	2.55	0.46
41:SH:153:SER:HA	41:SH:156:ARG:NH1	2.31	0.46
42:SI:161:TYR:O	42:SI:162:GLY:C	2.55	0.46
42:SK:120:ASP:HA	42:SK:123:ARG:HB3	1.97	0.46
42:SM:104:ALA:HB2	42:SM:413:MET:HE2	1.98	0.46
41:TD:213:ARG:HG2	41:TD:297:LYS:HD2	1.97	0.46
41:TJ:182:PRO:HA	41:TJ:381:ILE:HD11	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:TM:219:ILE:HA	42:TM:219:ILE:HD13	1.77	0.46
42:TM:372:GLN:HG2	42:TM:373:ARG:HD2	1.98	0.46
42:UE:292:THR:HG21	42:UE:331:ALA:HB1	1.97	0.46
42:UE:311:LYS:HD2	42:UE:436:GLY:HA2	1.97	0.46
41:UF:198:GLU:HG3	41:UF:200:TYR:CE1	2.51	0.46
42:UI:167:LEU:HD13	42:UI:200:CYS:HB3	1.97	0.46
41:UJ:193:VAL:HG12	41:UJ:265:PHE:HE2	1.80	0.46
41:UJ:426:GLN:CD	41:UJ:427:ASP:H	2.20	0.46
42:UK:76:ASP:HA	42:UK:79:ARG:HG2	1.97	0.46
42:UM:265:ILE:HG21	42:UM:313:MET:CE	2.45	0.46
42:VC:139:HIS:ND1	42:VC:146:GLY:O	2.49	0.46
41:VD:13:GLY:HA2	41:VD:136:THR:HG22	1.98	0.46
42:VE:14:VAL:HG21	42:VE:75:ILE:HG12	1.98	0.46
42:VE:231:ILE:HA	42:VE:234:ILE:HD12	1.98	0.46
42:VE:395:PHE:CE2	42:VE:422:ARG:HB2	2.50	0.46
42:VK:206:ASN:HD22	42:VK:206:ASN:HA	1.55	0.46
41:WF:259:PRO:HG2	41:WF:311:LEU:HD23	1.97	0.46
41:WF:324:LYS:HD3	42:WG:222:PRO:HD2	1.98	0.46
42:WG:64:ARG:NH1	42:WG:129:CYS:SG	2.87	0.46
42:WG:262:TYR:HB2	42:WG:265:ILE:HG12	1.98	0.46
41:WL:67:ASP:OD2	41:WL:68:LEU:N	2.49	0.46
9:2D:575:ARG:NH2	41:IN:361:LEU:N	2.64	0.46
11:2L:248:ARG:NH2	42:UE:322:ASP:OD2	2.49	0.46
12:2O:239:THR:HG21	42:WC:39:ASP:HB3	1.97	0.46
14:2W:104:ASN:OD1	41:OB:276:ARG:NH2	2.48	0.46
20:3P:246:ILE:HD13	20:3P:270:LEU:HB2	1.98	0.46
21:3U:135:ASP:OD2	42:KK:214:ARG:NH1	2.49	0.46
21:3V:52:MET:HB3	41:KL:306:ARG:HD3	1.97	0.46
21:3V:107:ASN:HA	41:LN:424:GLN:HE22	1.81	0.46
22:3Z:28:ARG:HH21	42:CI:221:ARG:NH1	2.13	0.46
24:4F:20:ILE:HG12	24:4F:20:ILE:H	1.56	0.46
31:5E:127:SER:HB3	42:OE:85:GLN:HE22	1.80	0.46
31:5E:129:ASP:HA	31:5E:133:ASN:HB2	1.98	0.46
33:5W:130:LYS:HG2	33:5X:13:ARG:NH1	2.30	0.46
33:5W:370:LEU:O	33:5W:374:GLN:HG2	2.16	0.46
34:6D:387:VAL:O	34:6D:388:GLU:C	2.54	0.46
34:6G:395:VAL:HG21	34:6H:276:ASN:HA	1.97	0.46
34:6H:235:LEU:O	34:6H:239:LYS:HG2	2.16	0.46
34:6H:266:ARG:NH2	35:6W:49:ALA:HA	2.31	0.46
34:6L:312:GLN:HG2	34:6L:315:ARG:HH21	1.81	0.46
35:6S:339:LEU:HD11	35:6S:394:LYS:HG2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:6Z:113:ASP:O	36:6Z:117:LYS:NZ	2.45	0.46
37:7F:28:PRO:HD2	42:OE:338:LYS:HD3	1.97	0.46
41:AD:304:ASP:HB3	41:AD:307:HIS:ND1	2.31	0.46
41:AF:67:ASP:OD2	41:AF:72:THR:OG1	2.32	0.46
41:AH:121:ARG:HA	41:AH:159:TYR:OH	2.16	0.46
42:AI:29:GLY:O	42:AI:30:ILE:C	2.54	0.46
42:AI:319:TYR:HB3	42:AI:323:VAL:HG21	1.98	0.46
41:AJ:7:LEU:HD22	41:AJ:151:LEU:HD21	1.98	0.46
42:BC:167:LEU:HD22	42:BC:252:LEU:HD21	1.98	0.46
42:BC:288:VAL:HG22	42:BC:373:ARG:HD3	1.98	0.46
42:BG:391:LEU:HA	42:BG:394:LYS:HB3	1.97	0.46
42:BI:118:VAL:HG23	42:BI:119:LEU:HD23	1.97	0.46
42:BI:124:LYS:HB2	42:BI:124:LYS:HE3	1.73	0.46
42:BK:12:ALA:HB1	42:BK:171:ILE:HD12	1.97	0.46
41:CB:249:ASP:O	41:CB:253:LEU:N	2.47	0.46
42:CC:183:GLU:CG	42:CC:184:PRO:HD3	2.44	0.46
41:CF:60:VAL:HG11	41:CF:86:ARG:HG3	1.97	0.46
41:CF:389:PHE:O	41:CF:390:ARG:C	2.53	0.46
42:CG:63:PRO:HG2	42:CG:91:GLN:OE1	2.16	0.46
41:CL:117:LEU:HD11	41:CL:154:LYS:HB3	1.98	0.46
42:DC:107:HIS:HA	42:DC:152:LEU:HD21	1.97	0.46
42:DC:248:LEU:HD11	43:DD:501:GDP:H5''	1.97	0.46
42:DE:11:GLN:NE2	42:DE:69:ASP:OD2	2.49	0.46
42:DE:132:LEU:HD22	42:DE:164:LYS:HD2	1.98	0.46
42:DE:319:TYR:HB2	42:DE:355:ILE:HD13	1.98	0.46
42:DG:295:CYS:HB3	42:DG:377:MET:HE3	1.98	0.46
41:DH:102:ALA:C	41:DH:104:GLY:N	2.69	0.46
41:DH:229:VAL:HB	41:DH:300:MET:HG3	1.98	0.46
42:DI:217:LEU:HD13	42:DI:368:LEU:HD23	1.98	0.46
41:DJ:142:GLY:O	41:DJ:145:SER:N	2.48	0.46
41:DJ:254:ALA:HA	41:DJ:257:MET:HB3	1.98	0.46
42:DK:99:ALA:O	42:DK:100:ALA:C	2.54	0.46
42:DK:261:PRO:O	41:DL:396:HIS:NE2	2.45	0.46
42:DK:323:VAL:HG11	42:DK:357:TYR:CE1	2.51	0.46
42:DK:400:ALA:C	42:DK:402:ARG:H	2.19	0.46
41:DL:22:GLU:HG3	41:DL:81:PHE:CD2	2.51	0.46
42:EC:345:ASP:HB2	42:EC:438:ASP:OD2	2.16	0.46
41:ED:101:TRP:HD1	41:ED:145:SER:HB2	1.81	0.46
42:EE:315:CYS:HB2	42:EE:351:PHE:HD1	1.80	0.46
42:EG:52:PHE:HE1	42:EG:239:THR:HG21	1.81	0.46
41:EH:138:SER:HA	41:EH:169:VAL:HB	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:EI:31:GLN:NE2	42:EI:32:PRO:HD2	2.31	0.46
42:EI:245:ASP:OD1	42:EI:246:GLY:N	2.49	0.46
41:EJ:296:ALA:HA	41:EJ:299:MET:HG2	1.96	0.46
42:EK:88:HIS:CE1	42:EK:92:LEU:HB2	2.51	0.46
42:EK:259:LEU:HD11	42:EK:378:LEU:HB3	1.99	0.46
42:EK:317:LEU:HB3	42:EK:319:TYR:CE1	2.51	0.46
41:EL:397:TRP:O	41:EL:398:TYR:C	2.55	0.46
42:EM:252:LEU:HA	42:EM:255:PHE:CE1	2.51	0.46
42:FC:114:LEU:O	42:FC:115:ILE:C	2.54	0.46
42:FC:147:SER:HB2	42:FC:190:THR:HG22	1.97	0.46
41:FD:94:GLN:HB3	41:FD:95:SER:H	1.60	0.46
41:FD:262:ARG:O	41:FD:263:LEU:C	2.54	0.46
41:FJ:151:LEU:O	41:FJ:155:ILE:HG12	2.16	0.46
42:FK:336:LYS:HZ1	42:FK:349:THR:HG22	1.81	0.46
41:FL:58:LYS:HB3	41:FL:58:LYS:HE3	1.50	0.46
41:FL:274:THR:HG21	41:FL:282:ARG:HD2	1.98	0.46
41:FL:364:SER:OG	41:FL:365:ALA:N	2.49	0.46
41:GF:324:LYS:HE3	42:GG:227:LEU:HD21	1.96	0.46
42:GG:5:ILE:HG23	42:GG:135:PHE:HA	1.98	0.46
42:GG:102:ASN:HB3	42:GG:105:ARG:HB2	1.98	0.46
42:GG:254:GLU:OE2	41:GH:99:ASN:ND2	2.49	0.46
41:GH:192:LEU:O	41:GH:196:THR:OG1	2.34	0.46
41:GJ:409:THR:OG1	41:GJ:410:GLU:N	2.49	0.46
41:GL:117:LEU:HA	41:GL:120:VAL:HG12	1.98	0.46
41:HD:232:THR:O	41:HD:236:VAL:HG23	2.15	0.46
41:HD:255:VAL:HA	42:HE:407:TRP:CH2	2.51	0.46
42:HE:238:ILE:HD11	42:HE:378:LEU:HD21	1.98	0.46
42:IC:212:ILE:HD11	42:IC:275:VAL:HG21	1.99	0.46
42:IG:216:ASN:ND2	42:IG:300:ASN:OD1	2.48	0.46
41:IH:107:THR:OG1	41:IH:401:GLU:OE2	2.26	0.46
41:IH:272:PRO:HG3	41:IH:364:SER:HA	1.96	0.46
42:II:192:HIS:HE1	42:II:420:GLU:O	1.99	0.46
42:IM:121:ARG:NH1	42:IM:124:LYS:HD2	2.31	0.46
41:IN:377:LEU:HD12	41:IN:377:LEU:HA	1.76	0.46
41:JD:200:TYR:OH	41:JD:368:ILE:HD12	2.16	0.46
42:JE:133:GLN:O	42:JE:165:SER:OG	2.33	0.46
41:KD:25:SER:OG	41:KD:51:TYR:OH	2.31	0.46
41:KH:91:VAL:HG11	41:KH:116:VAL:HB	1.98	0.46
41:KH:211:CYS:HA	41:KH:215:LEU:HB2	1.98	0.46
41:KN:4:ILE:HG22	41:KN:49:VAL:HG22	1.97	0.46
42:LC:294:ALA:O	42:LC:300:ASN:ND2	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:LD:122:LYS:HE3	41:LD:122:LYS:HB3	1.54	0.46
41:LD:303:CYS:O	41:LD:304:ASP:C	2.54	0.46
41:LF:248:ALA:HA	41:LF:252:LYS:HD2	1.97	0.46
42:MC:258:ASN:HD21	41:MD:178:THR:HG23	1.81	0.46
42:MG:5:ILE:HD13	42:MG:64:ARG:HB3	1.97	0.46
42:MI:241:SER:OG	42:MI:250:VAL:O	2.26	0.46
42:MK:323:VAL:HG23	42:MK:355:ILE:HG23	1.97	0.46
41:ML:236:VAL:HG12	41:ML:250:LEU:HD23	1.98	0.46
41:ML:296:ALA:HB3	41:ML:306:ARG:NH1	2.30	0.46
42:MM:315:CYS:HB3	42:MM:350:GLY:O	2.15	0.46
42:NA:430:LYS:HD3	42:NA:430:LYS:HA	1.73	0.46
42:NC:391:LEU:HD13	42:NC:391:LEU:HA	1.81	0.46
42:NI:66:VAL:HG23	42:NI:93:ILE:HD11	1.97	0.46
42:NI:204:VAL:HA	42:NI:303:VAL:HG22	1.97	0.46
41:NJ:20:PHE:CE2	41:NJ:24:ILE:HG13	2.51	0.46
41:NL:91:VAL:HG11	41:NL:116:VAL:HG12	1.97	0.46
42:OA:199:ASP:HB3	42:OA:256:GLN:NE2	2.31	0.46
42:OA:251:ASP:OD1	42:OA:252:LEU:N	2.43	0.46
41:OB:217:LEU:HD12	41:OB:217:LEU:HA	1.82	0.46
42:OC:109:THR:HG22	42:OC:110:ILE:H	1.81	0.46
42:OG:385:ALA:HA	42:OG:388:TRP:HD1	1.81	0.46
42:OI:195:LEU:HD12	42:OI:266:HIS:CE1	2.51	0.46
42:PA:261:PRO:HB3	42:PA:313:MET:HE1	1.97	0.46
42:PA:261:PRO:HG3	42:PA:313:MET:SD	2.56	0.46
42:PE:153:LEU:O	42:PE:157:LEU:N	2.49	0.46
42:PE:437:MET:O	42:PE:438:ASP:C	2.54	0.46
41:PF:331:LEU:HD13	42:PG:176:GLN:HB3	1.98	0.46
42:PG:22:GLU:O	42:PG:26:LEU:N	2.49	0.46
42:PG:109:THR:OG1	42:PG:110:ILE:N	2.44	0.46
41:PH:103:LYS:HA	41:PH:103:LYS:HD2	1.46	0.46
41:PH:105:HIS:HA	41:PH:150:LEU:CB	2.46	0.46
41:PH:284:LEU:HD22	41:PH:284:LEU:HA	1.80	0.46
42:PI:112:LYS:HA	42:PI:115:ILE:HB	1.97	0.46
42:PI:259:LEU:HD23	42:PI:259:LEU:HA	1.76	0.46
42:PK:312:TYR:HB2	42:PK:343:PHE:HA	1.98	0.46
41:PL:280:GLN:HG2	41:PL:281:TYR:H	1.82	0.46
41:QD:30:ILE:HD12	41:QD:30:ILE:HA	1.90	0.46
42:QE:168:GLU:OE2	42:QE:170:SER:HB3	2.16	0.46
42:QG:102:ASN:HA	42:QG:408:TYR:HE1	1.80	0.46
41:QH:116:VAL:HA	41:QH:119:VAL:HG22	1.97	0.46
41:QH:283:ALA:O	41:QH:285:THR:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:QH:296:ALA:O	41:QH:297:LYS:C	2.54	0.46
41:QJ:6:HIS:CE1	41:QJ:8:GLN:HB2	2.51	0.46
41:QJ:392:LYS:HA	41:QJ:395:LEU:HD13	1.98	0.46
42:RC:10:GLY:HA2	42:RC:145:THR:HG23	1.97	0.46
41:RD:198:GLU:HB2	41:RD:266:PHE:CE2	2.51	0.46
41:RD:329:GLN:HA	41:RD:332:ASN:HB2	1.98	0.46
41:RF:316:VAL:HG12	41:RF:352:ALA:HB3	1.97	0.46
42:RG:56:THR:HG23	42:RG:58:ALA:N	2.30	0.46
41:RH:101:TRP:NE1	41:RH:188:SER:HB3	2.31	0.46
42:RI:265:ILE:O	42:RI:380:ASN:ND2	2.47	0.46
42:RI:317:LEU:HB3	42:RI:319:TYR:CE1	2.50	0.46
41:RJ:318:ARG:HG3	41:RJ:354:CYS:HB3	1.97	0.46
42:RK:70:LEU:HB3	42:RK:98:ASP:HA	1.98	0.46
41:RL:73:MET:HG3	41:RL:77:ARG:HH21	1.80	0.46
42:SC:107:HIS:CE1	42:SC:152:LEU:HD13	2.51	0.46
42:SC:336:LYS:HD3	42:SC:343:PHE:CE1	2.51	0.46
41:SF:155:ILE:HD11	41:SF:164:MET:HE2	1.98	0.46
41:SH:216:LYS:HG2	41:SH:275:SER:HB3	1.97	0.46
42:SI:223:THR:O	42:SI:224:TYR:C	2.55	0.46
42:SI:259:LEU:HD11	42:SI:316:CYS:HB2	1.98	0.46
42:SK:349:THR:HG22	42:SK:351:PHE:H	1.80	0.46
42:SK:439:SER:HB2	41:SL:391:ARG:HH12	1.81	0.46
41:SL:6:HIS:HE1	41:SL:17:GLY:HA2	1.81	0.46
42:SM:311:LYS:HD3	42:SM:342:GLN:HB3	1.97	0.46
42:TC:150:THR:O	42:TC:154:MET:HG2	2.16	0.46
41:TF:159:TYR:HB3	41:TF:162:ARG:HE	1.81	0.46
41:TF:234:SER:O	41:TF:241:ARG:NH2	2.48	0.46
41:TF:413:SER:O	41:TF:417:ASP:N	2.46	0.46
41:TH:140:GLY:H	41:TH:145:SER:HB2	1.81	0.46
42:TI:172:TYR:H	42:TI:205:ASP:HA	1.80	0.46
42:TI:325:PRO:HA	42:TI:328:VAL:HG23	1.97	0.46
42:TK:75:ILE:H	42:TK:75:ILE:HG12	1.42	0.46
41:TL:135:LEU:HD12	41:TL:137:HIS:CE1	2.50	0.46
42:TM:83:TYR:HD2	42:TM:86:LEU:HD13	1.81	0.46
42:UC:75:ILE:HG22	42:UC:79:ARG:HD2	1.98	0.46
42:UG:60:LYS:HA	42:UG:60:LYS:HD3	1.78	0.46
42:UG:96:LYS:HA	42:UG:96:LYS:HD3	1.69	0.46
42:UI:56:THR:OG1	42:UI:57:GLY:N	2.49	0.46
42:UI:250:VAL:HG21	42:UI:318:LEU:HD22	1.98	0.46
42:VC:30:ILE:HG13	42:VC:36:MET:HG3	1.98	0.46
42:VC:319:TYR:HB3	42:VC:323:VAL:HG21	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:VF:87:PRO:HD3	41:WF:281:TYR:CD2	2.51	0.46
41:VF:321:MET:SD	41:VF:326:VAL:HG21	2.56	0.46
42:VM:88:HIS:CD2	42:VM:90:GLU:HB3	2.51	0.46
41:WD:226:ASN:OD1	43:WD:501:GDP:N1	2.45	0.46
42:WI:262:TYR:HB2	42:WI:265:ILE:HD12	1.98	0.46
41:WJ:43:GLN:OE1	41:WJ:359:ARG:NH2	2.48	0.46
42:WM:286:LEU:HD13	42:WM:371:VAL:HG13	1.98	0.46
41:WN:200:TYR:HD2	41:WN:268:PRO:HG3	1.80	0.46
12:2O:206:GLN:NE2	41:WD:74:ASP:HB3	2.30	0.45
13:2S:209:ARG:HB2	41:GF:279:GLN:OE1	2.16	0.45
14:2W:227:TYR:CE2	42:MG:411:GLU:HA	2.51	0.45
16:3C:60:GLY:O	42:VG:215:ARG:NH2	2.48	0.45
16:3C:76:VAL:HG22	42:VG:338:LYS:HZ3	1.81	0.45
19:3J:256:PHE:HB2	41:DD:279:GLN:HE22	1.81	0.45
20:3N:76:PRO:HG2	41:BB:280:GLN:HA	1.97	0.45
20:3N:270:LEU:HD11	20:3N:332:VAL:HG23	1.98	0.45
22:3Y:250:GLN:NE2	22:3Y:258:LEU:HG	2.30	0.45
31:5F:143:PRO:HA	31:5F:146:LEU:HB2	1.97	0.45
32:5M:306:GLN:HE22	32:5N:52:THR:HG21	1.81	0.45
33:5X:41:GLU:HA	33:5X:44:VAL:HB	1.97	0.45
34:6A:119:ARG:HE	34:6A:119:ARG:HB2	1.57	0.45
34:6A:126:ARG:O	34:6A:128:ILE:N	2.48	0.45
34:6B:400:LEU:HD22	34:6B:420:LEU:HB3	1.99	0.45
34:6M:185:LEU:HD13	34:6M:233:MET:HB3	1.97	0.45
35:6P:88:THR:O	35:6Q:346:LYS:NZ	2.42	0.45
35:6U:134:GLN:HE22	35:6U:279:ARG:HA	1.82	0.45
35:6V:71:ARG:O	35:6V:75:GLU:N	2.46	0.45
37:7C:122:HIS:O	41:TL:333:VAL:HA	2.16	0.45
41:AH:355:ASP:O	41:AH:356:ILE:C	2.53	0.45
42:AI:100:ALA:O	42:AI:101:ASN:C	2.55	0.45
42:AI:283:HIS:HB2	42:KK:88:HIS:ND1	2.31	0.45
41:AL:11:GLN:O	41:AL:15:GLN:HG2	2.16	0.45
42:CC:24:TYR:OH	42:CC:235:VAL:HG12	2.17	0.45
42:CC:36:MET:HG2	42:CC:61:HIS:HE1	1.81	0.45
42:CC:202:PHE:CE1	42:CC:378:LEU:HD23	2.51	0.45
41:CF:197:ASP:O	41:CF:198:GLU:HB2	2.15	0.45
41:CH:101:TRP:CD1	41:CH:146:GLY:HA2	2.51	0.45
41:CJ:239:CYS:C	41:CJ:241:ARG:H	2.19	0.45
41:CJ:372:THR:HA	41:CJ:422:TYR:CD1	2.51	0.45
42:CM:70:LEU:HD23	42:CM:145:THR:HG23	1.98	0.45
42:DC:3:GLU:HG2	42:DC:129:CYS:SG	2.55	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DE:49:PHE:HE2	42:DE:55:GLU:HG3	1.81	0.45
41:DF:417:ASP:O	41:DF:420:SER:N	2.49	0.45
41:DH:200:TYR:N	41:DH:200:TYR:CD1	2.84	0.45
41:DJ:1:MET:O	41:DJ:2:ARG:C	2.55	0.45
41:DJ:5:VAL:HG21	41:DJ:123:GLU:OE1	2.16	0.45
41:DL:194:GLU:C	41:DL:196:THR:H	2.18	0.45
42:EC:302:MET:HE2	42:EC:302:MET:HB3	1.69	0.45
41:ED:193:VAL:CG1	41:ED:199:THR:HG21	2.46	0.45
42:EE:109:THR:HG21	42:EE:411:GLU:HB3	1.98	0.45
42:EE:141:PHE:CB	42:EE:173:PRO:HD3	2.47	0.45
42:EE:209:ILE:HB	42:EE:227:LEU:HD23	1.96	0.45
42:EG:153:LEU:HD23	42:EG:153:LEU:HA	1.85	0.45
42:EI:166:LYS:HD3	42:EI:197:HIS:O	2.16	0.45
42:EI:277:SER:O	42:EI:281:ALA:N	2.49	0.45
41:EJ:178:THR:HG22	41:EJ:180:VAL:H	1.81	0.45
42:EK:27:GLU:O	42:EK:28:HIS:C	2.53	0.45
42:EK:105:ARG:HE	42:EK:110:ILE:HG13	1.80	0.45
42:EK:307:PRO:HA	42:EK:383:ALA:HB3	1.97	0.45
42:EK:344:VAL:HG12	42:EK:347:CYS:HB2	1.98	0.45
42:EM:100:ALA:O	42:EM:102:ASN:N	2.49	0.45
42:EM:312:TYR:HA	42:EM:381:THR:HG23	1.98	0.45
42:FC:431:ASP:HA	42:FC:434:GLU:HG2	1.96	0.45
41:FD:32:PRO:O	41:FD:33:THR:C	2.54	0.45
41:FD:374:ILE:O	41:FD:375:GLN:C	2.54	0.45
41:FF:317:PHE:HA	41:FF:365:ALA:HA	1.98	0.45
41:FH:1:MET:HE2	41:FH:46:ARG:HH21	1.79	0.45
42:FI:90:GLU:HB3	42:FI:121:ARG:NE	2.31	0.45
42:GE:391:LEU:HA	42:GE:394:LYS:HB2	1.97	0.45
41:GH:253:LEU:O	41:GH:257:MET:HB2	2.16	0.45
42:GI:326:LYS:NZ	41:GJ:212:PHE:HB2	2.31	0.45
41:GJ:16:ILE:HG12	41:GJ:229:VAL:HG11	1.96	0.45
42:GK:250:VAL:HG11	42:GK:318:LEU:HD22	1.98	0.45
42:GM:185:TYR:O	42:GM:187:SER:N	2.49	0.45
42:HC:21:TRP:HZ3	42:HC:52:PHE:HB3	1.81	0.45
41:HD:107:THR:O	41:HD:108:GLU:C	2.54	0.45
41:HD:347:ASN:HD21	42:HE:394:LYS:HE3	1.81	0.45
41:HF:136:THR:HG22	41:HF:167:PHE:HB2	1.97	0.45
41:HF:260:PHE:HZ	42:HG:401:LYS:O	1.99	0.45
42:HG:90:GLU:O	42:HG:91:GLN:C	2.53	0.45
42:HG:303:VAL:O	42:HG:305:CYS:N	2.48	0.45
41:ID:368:ILE:HD12	41:ID:368:ILE:HA	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:IE:280:LYS:HE2	42:IE:280:LYS:HB3	1.42	0.45
41:IF:3:GLU:OE1	41:IF:127:CYS:HB3	2.15	0.45
42:II:137:ILE:HG22	42:II:139:HIS:HD2	1.81	0.45
41:IJ:375:GLN:O	41:IJ:379:LYS:N	2.45	0.45
42:IK:326:LYS:HD3	41:IL:212:PHE:CZ	2.51	0.45
41:IL:11:GLN:HG2	43:IL:501:GDP:O3B	2.16	0.45
41:IN:234:SER:HB2	41:IN:318:ARG:HH12	1.80	0.45
42:JC:405:VAL:HG13	42:JC:418:PHE:HE2	1.82	0.45
42:JG:93:ILE:HG13	42:JG:118:VAL:HG22	1.98	0.45
42:JI:109:THR:HG21	42:JI:411:GLU:HB2	1.98	0.45
42:JI:174:ALA:HA	42:JI:205:ASP:OD1	2.15	0.45
42:JK:113:GLU:H	42:JK:113:GLU:HG3	1.42	0.45
42:JK:273:ALA:HB3	42:JK:274:PRO:CD	2.46	0.45
42:JM:88:HIS:O	42:JM:91:GLN:HG2	2.17	0.45
42:JM:163:LYS:O	42:JM:164:LYS:C	2.54	0.45
41:KH:210:ILE:O	41:KH:214:THR:OG1	2.28	0.45
41:KJ:139:LEU:HA	41:KJ:145:SER:HB2	1.99	0.45
42:KK:193:THR:HG23	42:KK:194:THR:HG23	1.98	0.45
41:LH:7:LEU:HD23	41:LH:64:VAL:HB	1.98	0.45
42:MC:274:PRO:HB3	42:MC:286:LEU:HD13	1.98	0.45
41:MD:3:GLU:HA	41:MD:49:VAL:HA	1.98	0.45
42:MG:369:ALA:O	42:MG:370:LYS:C	2.55	0.45
41:MJ:8:GLN:NE2	41:MJ:17:GLY:HA3	2.32	0.45
41:MJ:22:GLU:HA	41:MJ:81:PHE:HD2	1.81	0.45
42:MK:21:TRP:HZ3	42:MK:52:PHE:HB3	1.80	0.45
41:ML:21:TRP:CZ3	41:ML:50:TYR:HB3	2.51	0.45
41:NB:7:LEU:H	41:NB:7:LEU:HG	1.48	0.45
42:NC:337:THR:OG1	42:NC:338:LYS:N	2.48	0.45
41:ND:149:THR:OG1	41:ND:191:GLN:HB2	2.16	0.45
41:ND:211:CYS:O	41:ND:217:LEU:HG	2.16	0.45
41:ND:295:ASP:OD1	41:ND:295:ASP:N	2.48	0.45
41:ND:389:PHE:HE2	41:ND:395:LEU:HD13	1.82	0.45
41:OB:229:VAL:HG12	41:OB:233:MET:HE1	1.98	0.45
42:OE:118:VAL:HG11	42:OE:149:PHE:CZ	2.50	0.45
41:OF:4:ILE:HG12	41:OF:50:TYR:HE1	1.81	0.45
42:OG:430:LYS:HA	42:OG:430:LYS:HD3	1.39	0.45
41:OH:275:SER:O	41:OH:279:GLN:HG2	2.16	0.45
42:OI:118:VAL:HG11	42:OI:149:PHE:HZ	1.81	0.45
41:OL:114:ASP:OD1	41:OL:115:SER:N	2.49	0.45
41:OL:130:LEU:O	41:OL:162:ARG:NH1	2.47	0.45
41:OL:317:PHE:HB2	41:OL:352:ALA:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:PA:92:LEU:O	42:PA:93:ILE:C	2.55	0.45
42:PA:258:ASN:ND2	41:PB:178:THR:HG23	2.28	0.45
42:PA:265:ILE:HG21	42:PA:435:VAL:HG21	1.98	0.45
42:PA:360:PRO:HD3	42:PA:374:ALA:HB2	1.99	0.45
41:PF:320:ARG:HD3	41:PF:320:ARG:HA	1.53	0.45
41:PF:328:GLU:HA	41:PF:331:LEU:HD23	1.97	0.45
42:PG:296:PHE:HD1	42:PG:341:ILE:HG21	1.80	0.45
41:PH:207:LEU:HB3	41:PH:225:LEU:HG	1.98	0.45
42:PI:56:THR:HG22	42:PI:60:LYS:H	1.80	0.45
42:PI:403:ALA:O	42:PI:404:PHE:C	2.54	0.45
42:PI:427:ALA:HA	42:PI:430:LYS:HD2	1.98	0.45
41:PJ:5:VAL:HG22	41:PJ:62:ARG:HD2	1.98	0.45
41:PJ:65:LEU:HD13	41:PJ:90:PHE:HE1	1.81	0.45
41:PJ:226:ASN:O	41:PJ:229:VAL:N	2.49	0.45
41:PJ:262:ARG:HH22	41:PJ:414:ASN:HD21	1.62	0.45
41:PJ:309:ARG:H	41:PJ:372:THR:HG22	1.81	0.45
41:PL:122:LYS:HD2	41:PL:122:LYS:HA	1.72	0.45
41:PL:178:THR:HG22	41:PL:180:VAL:H	1.80	0.45
41:PL:303:CYS:O	41:PL:304:ASP:C	2.54	0.45
42:QC:184:PRO:HB3	42:QC:394:LYS:HG3	1.98	0.45
41:QF:112:LEU:HD22	41:QF:147:MET:SD	2.56	0.45
41:QJ:156:ARG:CD	41:QJ:195:ASN:HB2	2.46	0.45
41:QJ:325:GLU:OE1	42:QK:221:ARG:HA	2.16	0.45
41:QJ:375:GLN:HB2	41:QJ:379:LYS:NZ	2.31	0.45
42:QK:176:GLN:O	42:QK:177:VAL:C	2.54	0.45
41:QL:237:THR:O	41:QL:238:THR:C	2.54	0.45
41:QL:254:ALA:O	41:QL:255:VAL:C	2.54	0.45
41:RD:58:LYS:HD3	41:RD:58:LYS:HA	1.54	0.45
42:RI:250:VAL:HG11	42:RI:318:LEU:HD22	1.97	0.45
41:RJ:246:LEU:H	41:RJ:353:VAL:HG23	1.81	0.45
41:RJ:313:VAL:O	41:RJ:349:VAL:HA	2.16	0.45
42:RK:269:LEU:N	42:RK:379:SER:O	2.41	0.45
42:RK:274:PRO:HG3	42:RK:374:ALA:HB1	1.97	0.45
41:RL:284:LEU:HD13	41:RL:362:LYS:HE2	1.97	0.45
41:SD:347:ASN:O	41:SD:347:ASN:ND2	2.49	0.45
41:SH:47:ILE:HG22	41:SH:51:TYR:HB2	1.98	0.45
42:SI:3:GLU:CD	42:SI:129:CYS:HB3	2.36	0.45
42:SI:339:ARG:HA	42:SI:339:ARG:HD3	1.61	0.45
41:SJ:248:ALA:HA	41:SJ:252:LYS:HG2	1.98	0.45
42:SM:207:GLU:HA	42:SM:210:TYR:HB2	1.98	0.45
42:TI:351:PHE:H	41:TJ:179:VAL:HG22	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:TJ:324:LYS:HZ2	42:TK:222:PRO:CD	2.19	0.45
41:UD:67:ASP:OD2	41:UD:68:LEU:N	2.49	0.45
42:UE:367:ASP:OD1	42:UE:368:LEU:N	2.50	0.45
41:UF:62:ARG:NH1	41:UF:127:CYS:SG	2.89	0.45
41:UH:346:PRO:HD2	42:UI:398:MET:SD	2.56	0.45
42:UI:2:ARG:HD3	42:UI:242:LEU:HG	1.98	0.45
41:UJ:203:ASP:O	41:UJ:207:LEU:HG	2.15	0.45
42:VK:75:ILE:HD12	42:VK:75:ILE:HA	1.74	0.45
41:VL:5:VAL:HG23	41:VL:130:LEU:HD11	1.97	0.45
42:VM:306:ASP:HB3	42:VM:309:HIS:HB2	1.97	0.45
2:1D:114:ASN:OD1	26:4K:174:ARG:NH1	2.49	0.45
7:1U:6:TYR:OH	41:IL:51:TYR:O	2.34	0.45
11:2L:91:PRO:HA	42:WK:80:THR:HG22	1.98	0.45
12:2O:159:LEU:HB3	41:WD:219:THR:HG21	1.96	0.45
19:3K:184:VAL:HG23	19:3K:205:GLU:HG2	1.97	0.45
20:3O:649:LYS:HZ1	41:ED:41:ASP:CB	2.29	0.45
22:3Y:18:PRO:HB2	42:BE:89:PRO:HB3	1.98	0.45
22:3Y:190:PHE:HE1	41:DD:284:LEU:H	1.65	0.45
22:3Y:239:LYS:NZ	42:DE:94:THR:O	2.30	0.45
22:4A:57:THR:HG23	22:4A:58:LEU:HD23	1.98	0.45
26:4M:70:VAL:O	26:4M:74:GLN:N	2.44	0.45
27:4Q:86:GLU:HG3	27:4Q:95:ALA:HB2	1.97	0.45
28:4V:109:THR:HA	42:GC:96:LYS:HE2	1.97	0.45
30:5A:112:LEU:HD11	30:5A:116:LEU:HD21	1.98	0.45
33:5S:68:ILE:HD11	33:5S:187:ARG:HB3	1.99	0.45
33:5T:75:LYS:HE3	33:5T:75:LYS:HB3	1.40	0.45
34:6A:193:GLN:O	34:6A:194:VAL:C	2.54	0.45
34:6A:228:CYS:SG	34:6A:229:CYS:N	2.89	0.45
34:6B:389:LYS:HD3	34:6B:389:LYS:HA	1.70	0.45
34:6D:389:LYS:O	34:6D:390:SER:C	2.55	0.45
34:6D:450:HIS:O	34:6D:454:THR:HG22	2.16	0.45
34:6F:160:ILE:HD13	34:6F:308:ILE:HD11	1.98	0.45
34:6L:297:PRO:HD3	34:6M:414:ASP:HA	1.97	0.45
35:6S:138:LEU:HD11	35:6S:282:ILE:HD12	1.96	0.45
35:6U:141:ALA:O	35:6U:145:THR:OG1	2.24	0.45
35:6V:169:ARG:HG2	35:6W:50:LYS:HG3	1.98	0.45
40:7N:440:LYS:NZ	42:LI:243:ARG:HA	2.32	0.45
42:AG:150:THR:O	42:AG:154:MET:HG2	2.16	0.45
42:AK:93:ILE:HD12	42:AK:118:VAL:HG22	1.98	0.45
42:BC:172:TYR:CE2	42:BC:174:ALA:HB2	2.50	0.45
41:BD:137:HIS:HE1	41:BD:152:ILE:HD11	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BD:148:GLY:O	41:BD:152:ILE:HG12	2.17	0.45
42:BG:214:ARG:NH1	42:BG:220:GLU:OE1	2.50	0.45
41:BH:323:MET:H	42:BI:223:THR:HA	1.80	0.45
42:BI:100:ALA:O	42:BI:101:ASN:C	2.53	0.45
42:BI:247:ALA:O	42:BI:248:LEU:C	2.55	0.45
41:CB:350:LYS:HD3	42:CC:180:ALA:HA	1.98	0.45
42:CC:36:MET:H	42:CC:36:MET:HG3	1.52	0.45
42:CG:360:PRO:CG	42:CG:374:ALA:HB2	2.44	0.45
41:CJ:103:LYS:HA	41:CJ:103:LYS:HD3	1.41	0.45
42:CK:298:PRO:HB3	42:CK:306:ASP:OD1	2.16	0.45
41:CL:192:LEU:O	41:CL:196:THR:OG1	2.28	0.45
41:DB:6:HIS:CD2	41:DB:8:GLN:HB2	2.50	0.45
41:DD:7:LEU:HD22	41:DD:135:LEU:HD13	1.97	0.45
41:DD:321:MET:HG3	41:DD:322:SER:O	2.16	0.45
41:DF:190:HIS:CD2	41:DF:414:ASN:HD22	2.35	0.45
42:DG:65:ALA:H	42:DG:91:GLN:HE21	1.63	0.45
41:DH:8:GLN:HE21	41:DH:8:GLN:HB3	1.55	0.45
41:DH:215:LEU:HD12	41:DH:215:LEU:H	1.81	0.45
41:DJ:60:VAL:CG2	41:EJ:280:GLN:HE22	2.29	0.45
41:DJ:257:MET:HG3	41:DJ:312:THR:HG21	1.98	0.45
42:DK:263:PRO:O	42:DK:264:ARG:C	2.54	0.45
42:EC:172:TYR:OH	42:EC:391:LEU:HB2	2.16	0.45
42:EE:323:VAL:HG23	42:EE:355:ILE:HG23	1.98	0.45
42:EG:277:SER:O	42:EG:281:ALA:N	2.49	0.45
42:EG:335:ILE:O	42:EG:338:LYS:HB2	2.16	0.45
42:EK:63:PRO:HD2	42:EK:86:LEU:O	2.16	0.45
42:EM:102:ASN:HD22	42:EM:102:ASN:HA	1.51	0.45
42:FC:51:THR:HG23	42:FC:52:PHE:H	1.81	0.45
41:FD:253:LEU:HD23	41:FD:253:LEU:HA	1.78	0.45
42:FG:51:THR:HG21	42:FG:243:ARG:HG2	1.97	0.45
42:FG:169:PHE:CZ	42:FG:235:VAL:HG22	2.52	0.45
41:FH:413:SER:O	41:FH:417:ASP:N	2.47	0.45
42:FI:324:VAL:HG12	42:FI:326:LYS:H	1.81	0.45
42:FK:317:LEU:HD13	42:FK:317:LEU:HA	1.75	0.45
41:FL:333:VAL:O	41:FL:334:GLN:C	2.54	0.45
41:FL:336:LYS:HB3	41:FL:336:LYS:HE3	1.46	0.45
41:FL:344:TRP:HA	41:FL:344:TRP:HE3	1.81	0.45
42:GC:338:LYS:HZ3	42:GC:340:THR:HG1	1.60	0.45
41:GD:117:LEU:HA	41:GD:117:LEU:HD13	1.76	0.45
41:GH:182:PRO:HB2	41:GH:388:MET:CE	2.46	0.45
41:GJ:150:LEU:HD12	41:GJ:150:LEU:HA	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:GJ:183:TYR:CE1	41:GJ:388:MET:HB3	2.52	0.45
41:GJ:321:MET:HE3	41:GJ:321:MET:HB3	1.70	0.45
41:GJ:344:TRP:CH2	41:GJ:425:TYR:HB3	2.46	0.45
42:GM:246:GLY:HA2	42:GM:357:TYR:CD2	2.51	0.45
41:HB:164:MET:O	41:HB:196:THR:OG1	2.30	0.45
41:HB:275:SER:OG	41:HB:276:ARG:N	2.48	0.45
42:HC:280:LYS:HE2	42:HC:280:LYS:HB2	1.43	0.45
41:HF:32:PRO:HG3	41:HF:81:PHE:CE1	2.51	0.45
41:HF:193:VAL:HG12	41:HF:265:PHE:CE2	2.51	0.45
41:HJ:167:PHE:HZ	41:HJ:236:VAL:HG11	1.81	0.45
41:HJ:192:LEU:HD23	41:HJ:199:THR:HG21	1.99	0.45
42:IC:247:ALA:HB1	41:ID:222:TYR:CE2	2.51	0.45
42:IC:325:PRO:O	42:IC:329:ASN:ND2	2.49	0.45
42:IE:104:ALA:HB1	42:IE:411:GLU:OE2	2.17	0.45
41:IF:273:LEU:O	41:IF:292:GLN:NE2	2.48	0.45
41:IF:330:MET:HA	41:IF:333:VAL:HG12	1.99	0.45
41:IH:324:LYS:HE2	42:II:210:TYR:HB3	1.97	0.45
41:IL:270:PHE:CE2	41:IL:272:PRO:HD2	2.51	0.45
42:JC:7:VAL:HG11	42:JC:153:LEU:HD21	1.98	0.45
41:JD:86:ARG:C	41:JD:88:ASP:H	2.20	0.45
42:JE:9:VAL:HG23	42:JE:139:HIS:HB3	1.97	0.45
42:JI:242:LEU:HD11	42:JI:252:LEU:HG	1.98	0.45
41:JL:216:LYS:HA	41:JL:216:LYS:HD3	1.48	0.45
41:KH:36:TYR:CZ	41:KH:38:GLY:HA3	2.51	0.45
42:KI:79:ARG:NH2	42:KI:92:LEU:O	2.50	0.45
41:KJ:325:GLU:HA	41:KJ:328:GLU:HG2	1.97	0.45
42:LG:396:ASP:HA	42:LG:399:TYR:HB3	1.98	0.45
41:MD:289:LEU:HD23	41:MD:289:LEU:HA	1.77	0.45
41:MD:310:TYR:HA	41:MD:371:SER:HA	1.97	0.45
41:MF:246:LEU:HA	42:MG:11:GLN:HE22	1.82	0.45
41:MF:256:ASN:ND2	42:MG:101:ASN:HD22	2.14	0.45
42:MI:7:VAL:HG11	42:MI:153:LEU:HD21	1.98	0.45
42:NA:319:TYR:HB3	42:NA:323:VAL:HG11	1.97	0.45
42:NC:217:LEU:HA	42:NC:217:LEU:HD12	1.70	0.45
42:NC:236:SER:O	42:NC:240:ALA:HB2	2.16	0.45
41:NH:151:LEU:HD13	41:NH:151:LEU:HA	1.86	0.45
41:NJ:36:TYR:HE2	41:NJ:43:GLN:HE21	1.63	0.45
42:NK:194:THR:O	42:NK:195:LEU:C	2.54	0.45
42:OA:52:PHE:O	42:OA:64:ARG:HG2	2.15	0.45
41:OJ:42:LEU:HD12	41:OJ:42:LEU:HA	1.78	0.45
42:OK:208:ALA:HB2	42:OK:304:LYS:HG3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:PA:157:LEU:HD23	42:PA:157:LEU:HA	1.86	0.45
42:PA:430:LYS:HE2	42:PA:430:LYS:HB3	1.68	0.45
41:PB:222:TYR:HA	41:PB:225:LEU:HB2	1.96	0.45
42:PG:328:VAL:O	42:PG:332:ILE:HG12	2.17	0.45
42:PI:54:SER:OG	42:PI:55:GLU:N	2.48	0.45
42:PI:218:ASP:O	42:PI:219:ILE:C	2.53	0.45
41:PJ:142:GLY:C	41:PJ:144:GLY:H	2.19	0.45
42:PK:390:ARG:HD3	42:PK:393:HIS:HD2	1.81	0.45
41:PL:254:ALA:O	41:PL:258:VAL:HG22	2.16	0.45
41:QD:200:TYR:CD1	41:QD:266:PHE:HB2	2.51	0.45
42:QE:12:ALA:O	42:QE:16:ILE:HG12	2.15	0.45
42:QE:208:ALA:O	42:QE:212:ILE:HG12	2.16	0.45
41:QF:271:ALA:HB2	41:QF:293:MET:SD	2.55	0.45
42:QG:17:GLY:HA3	42:QG:67:PHE:CE1	2.50	0.45
42:QG:17:GLY:HA2	42:QG:21:TRP:HD1	1.82	0.45
41:QH:151:LEU:O	41:QH:152:ILE:C	2.54	0.45
41:QH:178:THR:HB	41:QH:181:GLU:HG2	1.98	0.45
42:QI:146:GLY:HA2	42:QI:150:THR:HG23	1.98	0.45
41:QJ:150:LEU:HD23	41:QJ:150:LEU:HA	1.81	0.45
42:QK:332:ILE:HG23	42:QK:351:PHE:CE2	2.51	0.45
41:QL:215:LEU:O	41:QL:216:LYS:C	2.54	0.45
41:QL:286:VAL:HB	41:QL:287:PRO:HD3	1.98	0.45
41:QL:415:MET:H	41:QL:415:MET:HG3	1.56	0.45
41:RB:154:LYS:HE2	41:RB:154:LYS:HB2	1.85	0.45
41:RF:234:SER:O	41:RF:235:GLY:C	2.54	0.45
42:RI:141:PHE:N	42:RI:171:ILE:O	2.42	0.45
41:RJ:173:PRO:O	41:RJ:174:LYS:C	2.55	0.45
41:RL:5:VAL:O	41:RL:134:GLN:N	2.50	0.45
41:RL:417:ASP:OD1	41:RL:418:LEU:N	2.49	0.45
42:SC:209:ILE:HD13	42:SC:231:ILE:HD11	1.98	0.45
42:SE:430:LYS:HE2	42:SE:430:LYS:HB3	1.64	0.45
41:SF:72:THR:O	41:SF:73:MET:C	2.54	0.45
41:SH:214:THR:HG21	41:SH:298:ASN:OD1	2.16	0.45
42:SK:344:VAL:HG12	42:SK:346:TRP:H	1.82	0.45
41:SL:16:ILE:HB	41:SL:136:THR:HG21	1.97	0.45
41:SL:216:LYS:HG2	41:SL:275:SER:HB2	1.97	0.45
42:TE:78:VAL:HG13	42:TE:92:LEU:HD13	1.98	0.45
42:TE:202:PHE:CE1	42:TE:378:LEU:HD22	2.51	0.45
42:TG:241:SER:HB3	42:TG:249:ASN:HB3	1.98	0.45
41:TH:267:MET:HB3	41:TH:299:MET:HE1	1.98	0.45
42:TI:319:TYR:HB3	42:TI:323:VAL:HG11	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:TL:375:GLN:HE22	41:TL:419:VAL:HA	1.81	0.45
42:TM:329:ASN:HA	42:TM:332:ILE:HG22	1.97	0.45
42:UC:88:HIS:O	42:UC:91:GLN:HG2	2.16	0.45
42:UC:403:ALA:O	42:UC:404:PHE:C	2.53	0.45
41:UD:19:LYS:HE3	41:UD:22:GLU:HG2	1.97	0.45
41:UF:73:MET:SD	41:UF:92:PHE:HB3	2.55	0.45
42:UG:269:LEU:HD11	42:UG:384:ILE:HB	1.99	0.45
42:UI:77:GLU:HA	42:UI:80:THR:HG22	1.98	0.45
42:UK:139:HIS:ND1	42:UK:140:SER:O	2.42	0.45
42:UM:10:GLY:HA2	42:UM:145:THR:HG23	1.98	0.45
42:VC:287:SER:HA	42:VC:373:ARG:HH21	1.80	0.45
42:VC:395:PHE:HE2	42:VC:422:ARG:HD2	1.81	0.45
41:VF:211:CYS:HA	41:VF:215:LEU:HB2	1.98	0.45
42:VK:281:ALA:O	42:VK:282:TYR:C	2.54	0.45
42:WC:168:GLU:HB2	42:WC:201:ALA:HA	1.97	0.45
42:WC:278:ALA:HA	42:WC:369:ALA:HB2	1.98	0.45
42:WI:394:LYS:HA	42:WI:397:LEU:HD12	1.97	0.45
42:WK:313:MET:HG2	42:WK:380:ASN:O	2.16	0.45
41:WL:322:SER:OG	41:WL:324:LYS:HB3	2.16	0.45
4:1K:121:HIS:HB3	42:IE:1:MET:N	2.30	0.45
16:3C:164:SER:H	42:VK:308:ARG:HH22	1.64	0.45
16:3C:193:PHE:CE2	41:VL:294:PHE:HB3	2.49	0.45
19:3K:424:ALA:HB1	19:3K:503:PHE:HB3	1.97	0.45
19:3L:232:LEU:HD23	42:BK:57:GLY:HA3	1.99	0.45
19:3L:247:ALA:O	19:3L:262:TYR:N	2.45	0.45
19:3L:452:PHE:CD2	42:EK:45:GLY:HA2	2.51	0.45
24:4G:346:ARG:HH12	24:4G:350:GLU:N	2.13	0.45
25:4J:242:CYS:HB3	25:4J:367:GLU:HG3	1.98	0.45
31:5H:115:ARG:HH21	31:5H:142:ILE:H	1.64	0.45
32:5O:67:LEU:O	32:5O:68:GLU:C	2.54	0.45
33:5T:139:LYS:HE3	33:5T:139:LYS:HB3	1.43	0.45
33:5V:140:GLU:OE1	33:5V:394:ARG:NH2	2.49	0.45
33:5W:324:ARG:NH1	33:5W:328:GLU:O	2.49	0.45
34:6D:411:LEU:HD23	34:6D:411:LEU:HA	1.69	0.45
34:6G:181:LEU:HD22	34:6G:325:ILE:HD11	1.97	0.45
34:6G:285:HIS:H	34:6L:446:GLN:HE22	1.63	0.45
34:6H:306:ASP:O	34:6H:310:ARG:N	2.43	0.45
34:6L:68:TYR:HD1	35:6R:253:THR:HG22	1.81	0.45
35:6S:370:ARG:HA	35:6S:370:ARG:HD3	1.48	0.45
35:6T:335:ASN:HD21	35:6U:81:SER:HB2	1.82	0.45
35:6T:370:ARG:HA	35:6T:374:GLN:HG3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:6V:360:ARG:HH22	35:6V:371:ASP:HB3	1.81	0.45
37:7C:191:GLN:HE21	37:7C:192:VAL:HB	1.81	0.45
41:AB:242:PHE:HB3	41:AB:356:ILE:HD12	1.97	0.45
42:AG:50:ASN:O	42:AG:64:ARG:NH2	2.49	0.45
41:AH:281:TYR:O	41:KJ:86:ARG:NH1	2.49	0.45
42:AI:119:LEU:HD11	42:AI:157:LEU:HG	1.98	0.45
41:AJ:236:VAL:HG22	41:AJ:368:ILE:HD11	1.97	0.45
42:AK:234:ILE:O	42:AK:238:ILE:HG23	2.15	0.45
41:AL:314:ALA:HB3	41:AL:368:ILE:HB	1.98	0.45
42:BC:172:TYR:HE2	42:BC:387:ALA:HB1	1.81	0.45
42:BC:425:MET:O	42:BC:429:GLU:HG2	2.17	0.45
41:BD:130:LEU:HD12	41:BD:130:LEU:HA	1.87	0.45
41:BF:334:GLN:HE22	41:BF:349:VAL:HG13	1.81	0.45
42:BG:17:GLY:HA2	42:BG:20:CYS:HB3	1.99	0.45
42:BI:247:ALA:O	42:BI:249:ASN:N	2.50	0.45
42:BK:140:SER:OG	45:BK:501:GTP:O2A	2.34	0.45
41:CB:24:ILE:H	41:CB:24:ILE:HG12	1.49	0.45
42:CC:219:ILE:HD11	42:CC:367:ASP:HB2	1.97	0.45
42:CC:337:THR:O	42:CC:338:LYS:C	2.54	0.45
42:CE:93:ILE:HD12	42:CE:117:LEU:HG	1.98	0.45
41:CF:107:THR:HG21	41:CF:401:GLU:CG	2.46	0.45
41:CF:288:GLU:HG3	41:CF:289:LEU:N	2.31	0.45
41:CH:202:ILE:HG12	41:CH:268:PRO:HG2	1.98	0.45
42:CI:296:PHE:HD2	42:CI:341:ILE:HG12	1.82	0.45
41:CJ:336:LYS:HA	41:CJ:336:LYS:HD3	1.72	0.45
42:DC:277:SER:OG	42:DC:280:LYS:HG2	2.17	0.45
41:DF:86:ARG:NH2	41:EF:281:TYR:O	2.49	0.45
41:DH:345:ILE:HD11	42:DI:181:VAL:HG22	1.98	0.45
42:DI:65:ALA:H	42:DI:91:GLN:NE2	2.14	0.45
42:DI:144:GLY:O	42:DI:148:GLY:N	2.49	0.45
42:DI:286:LEU:O	42:DI:373:ARG:NH2	2.46	0.45
42:DI:427:ALA:O	42:DI:431:ASP:N	2.42	0.45
42:DK:163:LYS:HZ2	42:DK:164:LYS:HG2	1.82	0.45
42:DK:209:ILE:HB	42:DK:227:LEU:HD13	1.97	0.45
42:DK:267:PHE:HB3	42:DK:384:ILE:HD12	1.97	0.45
41:DL:166:THR:HG22	41:DL:168:SER:HB3	1.99	0.45
41:ED:257:MET:SD	41:ED:312:THR:HB	2.57	0.45
42:EE:141:PHE:O	42:EE:143:GLY:N	2.49	0.45
41:EF:331:LEU:HD13	42:EG:177:VAL:HG13	1.97	0.45
42:EG:73:THR:OG1	42:EG:74:VAL:N	2.49	0.45
42:EK:236:SER:OG	42:EK:237:SER:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:EK:427:ALA:O	42:EK:430:LYS:N	2.47	0.45
42:EM:25:CYS:SG	42:EM:26:LEU:N	2.89	0.45
42:EM:381:THR:C	42:EM:383:ALA:H	2.20	0.45
42:FC:140:SER:C	42:FC:142:GLY:N	2.68	0.45
41:FD:71:GLY:O	41:FD:72:THR:C	2.55	0.45
41:FF:375:GLN:HB2	41:FF:419:VAL:HA	1.98	0.45
41:FH:348:ASN:N	41:FH:348:ASN:OD1	2.49	0.45
42:FI:325:PRO:HD2	41:FJ:221:THR:HA	1.99	0.45
41:FJ:42:LEU:HD23	41:FJ:243:PRO:HD2	1.97	0.45
42:FK:30:ILE:HD12	42:FK:30:ILE:HA	1.75	0.45
42:FK:108:TYR:HE1	42:FK:413:MET:HG2	1.81	0.45
42:FK:166:LYS:HG3	42:FK:167:LEU:N	2.31	0.45
42:FK:235:VAL:HA	42:FK:238:ILE:HD12	1.98	0.45
41:GD:379:LYS:HE3	41:GD:379:LYS:HB3	1.68	0.45
41:GF:33:THR:O	41:GF:58:LYS:NZ	2.48	0.45
42:GI:167:LEU:HD11	42:GI:202:PHE:CZ	2.51	0.45
41:GJ:39:ASP:O	41:GJ:40:SER:C	2.55	0.45
41:GJ:246:LEU:CD2	42:GK:179:THR:HG21	2.47	0.45
42:GK:17:GLY:HA2	42:GK:20:CYS:HB3	1.97	0.45
41:GL:255:VAL:HG23	42:GM:407:TRP:CG	2.52	0.45
41:GL:322:SER:OG	42:GM:222:PRO:O	2.33	0.45
41:HB:3:GLU:O	41:HB:131:GLN:N	2.50	0.45
42:HC:9:VAL:CG1	42:HC:150:THR:HG22	2.47	0.45
41:HF:103:LYS:HZ2	41:HF:401:GLU:HG2	1.82	0.45
41:HF:256:ASN:HD22	41:HF:350:LYS:HE2	1.81	0.45
42:HM:31:GLN:HB3	42:HM:32:PRO:HD2	1.99	0.45
42:HM:56:THR:O	42:HM:57:GLY:C	2.54	0.45
42:HM:262:TYR:HB2	42:HM:265:ILE:HG12	1.99	0.45
41:ID:350:LYS:HA	42:IE:179:THR:O	2.16	0.45
41:IF:80:PRO:HB2	41:IF:81:PHE:HD1	1.82	0.45
42:IK:204:VAL:HG11	42:IK:303:VAL:HA	1.98	0.45
41:IN:373:ALA:C	41:IN:375:GLN:N	2.68	0.45
42:JK:140:SER:O	42:JK:142:GLY:N	2.47	0.45
42:JK:303:VAL:O	42:JK:305:CYS:N	2.50	0.45
42:KC:103:TYR:HB3	42:KC:408:TYR:HE2	1.81	0.45
41:KJ:8:GLN:NE2	41:KJ:14:ASN:HA	2.32	0.45
42:LE:192:HIS:CE1	42:LE:196:GLU:HG3	2.51	0.45
42:LK:130:THR:O	41:LL:94:GLN:NE2	2.47	0.45
41:LL:27:GLU:OE2	41:LL:241:ARG:NH1	2.49	0.45
41:LL:275:SER:HB2	41:LL:278:SER:HB2	1.97	0.45
42:LM:258:ASN:OD1	41:LN:179:VAL:HG22	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:MD:210:ILE:H	41:MD:210:ILE:HG12	1.41	0.45
41:MF:98:GLY:O	41:MF:99:ASN:C	2.55	0.45
42:MK:333:ALA:HA	42:MK:349:THR:HG21	1.99	0.45
41:ML:152:ILE:HG22	41:ML:195:ASN:HB3	1.99	0.45
42:NC:221:ARG:N	42:NC:222:PRO:CD	2.79	0.45
41:ND:358:PRO:O	41:ND:359:ARG:C	2.55	0.45
42:NE:12:ALA:HB1	42:NE:171:ILE:HD12	1.97	0.45
41:NF:61:PRO:HD2	41:OF:281:TYR:OH	2.17	0.45
41:NF:389:PHE:HE1	41:NF:395:LEU:HD13	1.81	0.45
41:OB:122:LYS:NZ	41:PB:291:GLN:O	2.49	0.45
41:OB:336:LYS:HB2	41:OB:336:LYS:HE2	1.53	0.45
42:OC:219:ILE:HG23	42:OC:222:PRO:HG3	1.97	0.45
42:OE:403:ALA:O	42:OE:405:VAL:N	2.49	0.45
41:OF:304:ASP:HA	41:OF:305:PRO:HD3	1.79	0.45
42:OG:118:VAL:HG21	42:OG:149:PHE:HE2	1.81	0.45
42:OG:252:LEU:HD23	42:OG:252:LEU:HA	1.80	0.45
42:OI:311:LYS:HZ3	42:OI:344:VAL:HG12	1.81	0.45
42:OI:345:ASP:OD1	42:OI:345:ASP:N	2.49	0.45
42:PA:247:ALA:O	42:PA:248:LEU:C	2.55	0.45
42:PC:274:PRO:HB2	42:PC:371:VAL:HG21	1.98	0.45
41:PD:307:HIS:CE1	41:PD:373:ALA:HB1	2.52	0.45
42:PE:67:PHE:HB2	42:PE:92:LEU:HD22	1.99	0.45
42:PE:311:LYS:HB3	42:PE:312:TYR:H	1.66	0.45
42:PG:21:TRP:CZ3	42:PG:63:PRO:HB3	2.51	0.45
42:PG:65:ALA:O	42:PG:91:GLN:NE2	2.50	0.45
42:PG:117:LEU:HA	42:PG:117:LEU:HD13	1.64	0.45
41:PH:233:MET:HE2	41:PH:233:MET:HB2	1.79	0.45
41:PH:238:THR:OG1	41:PH:239:CYS:N	2.49	0.45
41:PH:395:LEU:HA	41:PH:395:LEU:HD13	1.76	0.45
42:PI:241:SER:O	42:PI:242:LEU:C	2.54	0.45
41:PJ:84:ILE:O	41:PJ:85:PHE:C	2.54	0.45
41:PJ:380:ARG:O	41:PJ:381:ILE:C	2.54	0.45
41:PL:276:ARG:HA	41:PL:276:ARG:HD2	1.42	0.45
41:PL:389:PHE:O	41:PL:390:ARG:C	2.54	0.45
41:QD:61:PRO:HG2	41:QD:84:ILE:HD12	1.98	0.45
41:QD:165:ASN:OD1	41:QD:198:GLU:HB3	2.16	0.45
41:QH:271:ALA:O	41:QH:273:LEU:N	2.48	0.45
42:QI:164:LYS:HB2	42:QI:164:LYS:HE2	1.66	0.45
42:QI:277:SER:HA	42:QI:369:ALA:N	2.30	0.45
42:QK:287:SER:HA	42:QK:373:ARG:HH11	1.81	0.45
42:QK:384:ILE:O	42:QK:387:ALA:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:RB:255:VAL:HG21	42:RC:102:ASN:HD21	1.82	0.45
42:RC:88:HIS:HD2	42:RC:89:PRO:HD2	1.81	0.45
42:RC:157:LEU:HD12	42:RC:161:TYR:CD2	2.51	0.45
41:RD:139:LEU:HD21	41:RD:189:VAL:HG22	1.98	0.45
41:RF:159:TYR:CD2	41:RF:162:ARG:HG3	2.50	0.45
41:RF:400:GLY:O	41:RF:401:GLU:C	2.53	0.45
42:RG:244:PHE:CE2	42:RG:358:GLN:HG2	2.52	0.45
42:RG:428:LEU:HD12	42:RG:432:TYR:CZ	2.51	0.45
42:RI:140:SER:HA	42:RI:171:ILE:HB	1.99	0.45
41:RJ:156:ARG:HD3	41:RJ:156:ARG:HA	1.53	0.45
41:RJ:164:MET:H	41:RJ:197:ASP:HB2	1.81	0.45
41:RL:27:GLU:HA	41:RL:359:ARG:HE	1.81	0.45
42:SE:15:GLN:NE2	45:SE:501:GTP:N7	2.63	0.45
41:SL:351:THR:HG23	42:SM:179:THR:HA	1.98	0.45
41:SL:379:LYS:HD3	41:SL:419:VAL:HG11	1.99	0.45
41:TD:200:TYR:HE1	41:TD:266:PHE:HD2	1.63	0.45
42:TG:238:ILE:HA	42:TG:318:LEU:HD22	1.98	0.45
41:TH:169:VAL:HG22	41:TH:202:ILE:HD11	1.97	0.45
42:TK:109:THR:O	42:TK:110:ILE:C	2.54	0.45
42:UC:273:ALA:HB3	42:UC:274:PRO:HD3	1.97	0.45
41:UH:255:VAL:HA	42:UI:407:TRP:CE2	2.51	0.45
42:UI:262:TYR:HB2	42:UI:265:ILE:HG12	1.97	0.45
41:UJ:73:MET:SD	41:UJ:92:PHE:HB3	2.56	0.45
42:UK:79:ARG:NH2	42:UK:92:LEU:O	2.45	0.45
41:UL:267:MET:HG3	41:UL:301:ALA:HB3	1.98	0.45
41:VF:312:THR:HG21	42:VG:404:PHE:HZ	1.82	0.45
42:VI:252:LEU:HA	42:VI:255:PHE:CE1	2.51	0.45
41:VL:39:ASP:OD1	41:VL:40:SER:N	2.49	0.45
41:VL:252:LYS:HB2	42:VM:100:ALA:HA	1.97	0.45
41:WD:318:ARG:HB3	41:WD:357:PRO:HA	1.98	0.45
42:WG:202:PHE:CE1	42:WG:378:LEU:HD22	2.51	0.45
41:WN:21:TRP:HZ3	41:WN:50:TYR:HB3	1.81	0.45
9:2D:329:LEU:HD22	41:IF:280:GLN:HB2	1.98	0.45
10:2H:158:GLY:HA2	41:VL:48:ASN:HD21	1.82	0.45
13:2S:213:GLU:H	41:GF:276:ARG:NH1	2.13	0.45
20:3O:675:ASN:OD1	20:3O:676:TYR:N	2.50	0.45
21:3U:57:LEU:HD23	41:LH:113:VAL:HG13	1.98	0.45
25:4I:11:ALA:HB2	25:4I:26:LEU:HB2	1.98	0.45
25:4I:250:VAL:HG22	25:4I:255:LEU:HD12	1.98	0.45
27:4R:94:ILE:HD11	27:4R:126:PHE:HA	1.98	0.45
27:4R:167:VAL:O	27:4R:171:VAL:HG13	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:5A:70:ARG:NH2	41:ML:56:GLY:HA3	2.31	0.45
30:5A:263:PHE:HB2	30:5A:267:ARG:HD3	1.98	0.45
31:5G:105:VAL:HG12	31:5G:107:GLN:H	1.82	0.45
33:5Q:218:TRP:HE1	33:5R:328:GLU:HG3	1.82	0.45
33:5S:389:LYS:HA	33:5S:389:LYS:HD3	1.73	0.45
33:5V:102:ASN:ND2	33:5V:247:ILE:HG23	2.31	0.45
33:5W:130:LYS:HG2	33:5X:13:ARG:HH12	1.82	0.45
34:6A:181:LEU:HD11	34:6A:233:MET:HB3	1.97	0.45
34:6F:180:ARG:NH2	34:6F:326:GLN:OE1	2.49	0.45
34:6G:398:THR:OG1	34:6H:282:SER:O	2.35	0.45
34:6L:183:ARG:HA	34:6L:186:MET:HG2	1.98	0.45
34:6M:168:ILE:HG13	35:6W:246:LYS:HZ1	1.82	0.45
35:6S:135:LYS:HE3	35:6S:135:LYS:HB3	1.68	0.45
41:AB:257:MET:HA	41:AB:312:THR:HG21	1.97	0.45
41:AF:385:PHE:HZ	41:AF:408:PHE:HB3	1.82	0.45
42:AG:325:PRO:O	42:AG:329:ASN:ND2	2.31	0.45
42:AK:130:THR:O	42:AK:130:THR:OG1	2.34	0.45
41:BB:31:ASP:OD2	41:BB:33:THR:OG1	2.31	0.45
41:BB:47:ILE:HG21	41:BB:59:TYR:HE1	1.81	0.45
42:BC:258:ASN:HB2	41:BD:179:VAL:HB	1.97	0.45
42:BG:154:MET:CE	42:BG:198:SER:HB2	2.47	0.45
42:BI:195:LEU:HA	42:BI:266:HIS:HE1	1.82	0.45
42:BI:437:MET:HE2	42:BI:437:MET:HB2	1.72	0.45
42:CC:55:GLU:HA	42:CC:61:HIS:HD2	1.81	0.45
42:CC:153:LEU:O	42:CC:154:MET:C	2.53	0.45
41:CD:256:ASN:HD21	42:CE:101:ASN:HD22	1.65	0.45
41:CD:336:LYS:HA	41:CD:336:LYS:HD3	1.53	0.45
42:CG:138:PHE:HZ	42:CG:235:VAL:HG11	1.81	0.45
42:CG:399:TYR:O	42:CG:400:ALA:C	2.55	0.45
41:CH:100:ASN:HB3	41:CH:103:LYS:HD3	1.99	0.45
42:CI:272:TYR:HE1	42:CI:374:ALA:HB1	1.81	0.45
41:CJ:186:THR:HG21	41:CJ:385:PHE:HB2	1.98	0.45
42:CK:168:GLU:HB2	42:CK:201:ALA:HA	1.99	0.45
41:CL:258:VAL:HB	42:CM:407:TRP:HZ2	1.82	0.45
41:CL:309:ARG:HB3	41:CL:342:VAL:HG13	1.99	0.45
41:CL:319:GLY:HA2	41:CL:357:PRO:HG3	1.98	0.45
42:DE:136:LEU:HB3	42:DE:138:PHE:HE2	1.81	0.45
41:DH:188:SER:O	41:DH:189:VAL:C	2.55	0.45
42:DI:231:ILE:O	42:DI:235:VAL:HG23	2.16	0.45
41:DJ:18:ALA:HB2	41:DJ:76:VAL:HG23	1.99	0.45
41:DJ:350:LYS:HB3	41:DJ:350:LYS:HE2	1.39	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DL:54:ALA:HB3	41:DL:58:LYS:HB2	1.99	0.45
42:DM:301:GLN:NE2	42:DM:307:PRO:HG3	2.31	0.45
42:EE:166:LYS:HE3	42:EE:166:LYS:HB2	1.49	0.45
42:EG:313:MET:HB2	42:EG:380:ASN:O	2.16	0.45
42:EK:257:THR:O	42:EK:258:ASN:ND2	2.49	0.45
42:EM:191:THR:O	42:EM:192:HIS:C	2.55	0.45
42:FC:87:PHE:HB3	42:FC:92:LEU:HD13	1.98	0.45
42:FC:109:THR:O	42:FC:111:GLY:N	2.50	0.45
42:FC:145:THR:HG22	45:FC:501:GTP:O3B	2.16	0.45
41:FD:377:LEU:CD2	41:FD:380:ARG:HH11	2.28	0.45
42:FE:388:TRP:CD1	42:FE:432:TYR:HE2	2.34	0.45
42:FG:27:GLU:OE2	42:FG:358:GLN:NE2	2.46	0.45
41:FH:249:ASP:O	41:FH:253:LEU:N	2.48	0.45
41:FJ:99:ASN:HA	41:FJ:142:GLY:H	1.81	0.45
42:FK:397:LEU:HD23	42:FK:397:LEU:HA	1.79	0.45
41:FL:146:GLY:O	41:FL:147:MET:C	2.55	0.45
41:FL:257:MET:HE1	41:FL:314:ALA:HB2	1.99	0.45
42:GG:276:ILE:HD11	42:GG:280:LYS:HD2	1.98	0.45
41:GJ:181:GLU:HB3	41:GJ:182:PRO:HD3	1.98	0.45
42:HC:409:VAL:HA	42:HC:413:MET:HG3	1.98	0.45
42:HG:30:ILE:H	42:HG:30:ILE:HG12	1.31	0.45
42:HG:293:ASN:HA	42:HG:335:ILE:HD11	1.99	0.45
41:HH:284:LEU:HD23	41:HH:363:MET:HG2	1.98	0.45
41:HJ:71:GLY:O	41:HJ:72:THR:C	2.54	0.45
41:ID:345:ILE:HG23	42:IE:398:MET:HG3	1.98	0.45
42:IE:70:LEU:HD12	42:IE:114:LEU:HD11	1.99	0.45
41:IH:354:CYS:SG	41:IH:355:ASP:N	2.90	0.45
41:IJ:2:ARG:HH22	42:IK:73:THR:HG23	1.82	0.45
42:IK:204:VAL:HG21	42:IK:302:MET:HG3	1.97	0.45
41:IL:198:GLU:HG3	41:IL:266:PHE:CE2	2.51	0.45
42:IM:208:ALA:O	42:IM:212:ILE:HG13	2.17	0.45
42:IM:238:ILE:HD12	42:IM:378:LEU:HD21	1.99	0.45
42:JG:205:ASP:HB2	42:JG:303:VAL:HA	1.99	0.45
41:JH:304:ASP:OD1	41:JH:307:HIS:ND1	2.49	0.45
41:JJ:161:ASP:O	41:JJ:251:ARG:NH2	2.49	0.45
41:KD:131:GLN:HE22	41:KD:250:LEU:HB2	1.81	0.45
41:KH:7:LEU:HG	41:KH:135:LEU:HD13	1.98	0.45
41:KL:66:VAL:HG11	41:KL:151:LEU:HD11	1.96	0.45
42:LE:1:MET:N	42:LE:3:GLU:OE2	2.41	0.45
42:LI:169:PHE:CE1	42:LI:235:VAL:HG22	2.51	0.45
41:LJ:67:ASP:OD1	41:LJ:68:LEU:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:LL:31:ASP:OD1	41:LL:32:PRO:HD2	2.17	0.45
42:MC:195:LEU:HD12	42:MC:428:LEU:HD12	1.98	0.45
41:MF:225:LEU:HA	41:MF:228:LEU:HD12	1.99	0.45
42:MG:156:ARG:H	42:MG:156:ARG:HG2	1.35	0.45
41:MN:163:ILE:HA	41:MN:163:ILE:HD12	1.67	0.45
41:MN:379:LYS:HB2	41:MN:379:LYS:HE3	1.31	0.45
42:NA:326:LYS:HA	42:NA:326:LYS:HD2	1.53	0.45
41:NB:102:ALA:HB2	41:NB:403:MET:HE2	1.97	0.45
41:NJ:183:TYR:CE2	41:NJ:394:PHE:HB2	2.52	0.45
42:NK:86:LEU:O	42:NK:87:PHE:C	2.54	0.45
42:OA:204:VAL:HB	42:OA:209:ILE:HD11	1.99	0.45
41:OB:105:HIS:ND1	41:OB:150:LEU:HB2	2.32	0.45
41:OB:315:ALA:O	41:OB:317:PHE:N	2.49	0.45
41:OB:392:LYS:HA	41:OB:392:LYS:HD3	1.41	0.45
42:OC:329:ASN:ND2	41:OD:174:LYS:HD2	2.31	0.45
42:OE:311:LYS:HZ1	42:OE:344:VAL:HA	1.81	0.45
41:OF:192:LEU:O	41:OF:196:THR:OG1	2.35	0.45
42:PA:339:ARG:O	42:PA:340:THR:C	2.54	0.45
41:PB:151:LEU:HA	41:PB:154:LYS:HB2	1.97	0.45
42:PC:164:LYS:HD2	42:PC:166:LYS:HE3	1.97	0.45
42:PE:234:ILE:CD1	42:PE:302:MET:SD	3.05	0.45
42:PE:315:CYS:HB2	42:PE:351:PHE:HD1	1.82	0.45
41:PF:193:VAL:HA	41:PF:264:HIS:CE1	2.51	0.45
41:PH:80:PRO:O	41:PH:82:GLY:N	2.50	0.45
42:PI:23:LEU:O	42:PI:27:GLU:HG2	2.17	0.45
41:PJ:45:GLU:H	41:PJ:45:GLU:HG2	1.42	0.45
41:PJ:113:VAL:HA	41:PJ:116:VAL:CG1	2.46	0.45
42:PK:326:LYS:HE2	42:PK:326:LYS:HB2	1.36	0.45
41:QD:68:LEU:HD23	41:QD:112:LEU:HD13	1.99	0.45
41:QH:1:MET:N	41:QH:1:MET:SD	2.85	0.45
41:QH:271:ALA:HB2	41:QH:293:MET:HG3	1.98	0.45
42:QI:152:LEU:HD23	42:QI:152:LEU:HA	1.78	0.45
42:QI:246:GLY:HA2	42:QI:357:TYR:CD1	2.51	0.45
41:QL:48:ASN:O	41:QL:49:VAL:C	2.54	0.45
41:QL:182:PRO:HB2	41:QL:388:MET:SD	2.56	0.45
41:QL:249:ASP:HA	41:QL:253:LEU:HD13	1.97	0.45
41:RB:257:MET:HG3	41:RB:266:PHE:CE2	2.52	0.45
42:RC:169:PHE:CE2	42:RC:235:VAL:HG23	2.51	0.45
42:RC:286:LEU:HG	42:RC:371:VAL:HG11	1.97	0.45
41:RF:115:SER:O	41:RF:116:VAL:C	2.54	0.45
41:RF:183:TYR:HB3	41:RF:398:TYR:CE2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:RH:375:GLN:NE2	41:RH:423:GLN:HG2	2.32	0.45
41:RH:417:ASP:OD1	41:RH:418:LEU:N	2.49	0.45
42:RI:105:ARG:O	42:RI:110:ILE:N	2.50	0.45
42:RI:209:ILE:HA	42:RI:212:ILE:HG22	1.98	0.45
42:RI:316:CYS:O	42:RI:378:LEU:N	2.44	0.45
42:RI:322:ASP:O	42:RI:373:ARG:NE	2.50	0.45
41:RL:114:ASP:N	41:RL:114:ASP:OD1	2.48	0.45
42:SC:2:ARG:HB2	42:SC:133:GLN:HG2	1.99	0.45
41:SF:242:PHE:HB3	41:SF:356:ILE:HG13	1.98	0.45
41:SJ:322:SER:HB2	42:SK:223:THR:HG22	1.97	0.45
42:TC:428:LEU:O	42:TC:432:TYR:HB2	2.16	0.45
41:TD:161:ASP:OD1	41:TD:161:ASP:N	2.48	0.45
42:TE:63:PRO:HD3	42:TE:86:LEU:HD23	1.99	0.45
42:TE:109:THR:O	42:TE:111:GLY:N	2.50	0.45
41:TF:100:ASN:HB2	41:TF:103:LYS:HB2	1.97	0.45
42:TG:16:ILE:HG22	42:TG:20:CYS:HB2	1.97	0.45
41:TJ:316:VAL:HG12	41:TJ:352:ALA:HB3	1.98	0.45
41:TL:226:ASN:HA	41:TL:229:VAL:HG12	1.99	0.45
41:UD:20:PHE:HZ	41:UD:50:TYR:CZ	2.34	0.45
42:UG:28:HIS:HB2	42:UG:243:ARG:NH2	2.22	0.45
42:UG:202:PHE:CE1	42:UG:268:PRO:HG2	2.51	0.45
42:UI:168:GLU:OE2	42:UI:198:SER:OG	2.23	0.45
42:UI:195:LEU:HD11	42:UI:428:LEU:HD12	1.99	0.45
42:UI:234:ILE:HG13	42:UI:272:TYR:HB2	1.98	0.45
42:UM:137:ILE:N	42:UM:167:LEU:O	2.48	0.45
42:VK:313:MET:HE2	42:VK:313:MET:HB2	1.82	0.45
41:WD:282:ARG:NH2	41:WD:292:GLN:OE1	2.49	0.45
41:WN:46:ARG:HA	41:WN:46:ARG:HD3	1.83	0.45
9:2D:370:ARG:NH1	42:IG:373:ARG:HB3	2.31	0.45
10:2G:87:PHE:CE1	42:AG:207:GLU:HG3	2.51	0.45
10:2H:147:ILE:HD11	42:WM:221:ARG:HD2	1.99	0.45
13:2S:285:ARG:HG2	42:GC:282:TYR:CD1	2.51	0.45
19:3L:25:PHE:HB2	42:LK:358:GLN:HB2	1.98	0.45
20:3O:87:ARG:NH2	20:3O:154:TYR:OH	2.47	0.45
20:3O:645:LYS:NZ	20:3O:657:GLU:OE2	2.43	0.45
20:3P:9:SER:HG	42:KK:47:ASP:N	2.14	0.45
20:3P:491:GLU:HG2	20:3P:525:LYS:HD2	1.99	0.45
24:4G:381:LEU:HD13	24:4G:384:PHE:HD2	1.81	0.45
26:4M:117:THR:O	26:4M:121:GLN:HG2	2.17	0.45
27:4T:113:PHE:HB3	27:4T:152:PRO:HB2	1.99	0.45
31:5D:97:LEU:HA	31:5D:100:LYS:HD2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:5M:326:VAL:HG23	32:5N:212:VAL:HG21	1.99	0.45
33:5V:115:GLU:HG2	35:6T:414:LYS:NZ	2.31	0.45
33:5V:317:ARG:HG2	33:5V:338:LEU:HD11	1.97	0.45
33:5W:41:GLU:HA	33:5W:44:VAL:HB	1.98	0.45
34:6G:370:GLN:NE2	35:6W:21:GLN:OE1	2.49	0.45
34:6H:462:LYS:HD3	34:6H:462:LYS:HA	1.48	0.45
34:6L:146:LEU:HD23	34:6M:416:ALA:HB1	1.97	0.45
35:6R:376:ARG:HA	35:6R:376:ARG:HD2	1.76	0.45
35:6S:297:CYS:HA	35:6S:300:VAL:HG12	1.97	0.45
42:AE:7:VAL:HG22	42:AE:137:ILE:HG12	1.98	0.45
42:AE:304:LYS:HD2	42:AE:304:LYS:HA	1.80	0.45
42:AE:306:ASP:HB3	42:AE:309:HIS:CD2	2.52	0.45
41:AF:267:MET:HG2	41:AF:301:ALA:HB3	1.99	0.45
42:AI:320:ARG:HG3	42:AI:358:GLN:O	2.17	0.45
41:AL:86:ARG:C	41:AL:88:ASP:H	2.19	0.45
41:AL:262:ARG:HB2	41:AL:262:ARG:CZ	2.47	0.45
41:BB:3:GLU:HA	41:BB:49:VAL:HG23	1.98	0.45
41:BF:25:SER:O	41:BF:29:GLY:N	2.50	0.45
41:BF:256:ASN:O	41:BF:312:THR:HG21	2.17	0.45
42:CC:137:ILE:HG21	42:CC:150:THR:HG23	1.98	0.45
41:DB:209:ASP:O	41:DB:213:ARG:HG2	2.16	0.45
41:DD:8:GLN:HE22	41:DD:136:THR:HG23	1.81	0.45
41:DD:218:THR:HG23	41:DD:219:THR:H	1.82	0.45
42:DG:108:TYR:OH	42:DG:417:GLU:OE1	2.33	0.45
42:DG:169:PHE:CZ	42:DG:238:ILE:HG13	2.52	0.45
41:DH:324:LYS:CB	42:DI:221:ARG:HA	2.40	0.45
41:DJ:313:VAL:HA	41:DJ:369:GLY:HA3	1.98	0.45
42:DK:36:MET:O	42:DK:37:PRO:C	2.55	0.45
42:DM:319:TYR:HD1	42:DM:375:VAL:HB	1.82	0.45
42:EE:111:GLY:O	42:EE:112:LYS:C	2.55	0.45
42:EG:76:ASP:HA	42:EG:79:ARG:CD	2.46	0.45
41:EH:150:LEU:HG	41:EH:154:LYS:NZ	2.32	0.45
41:EJ:293:MET:HE3	41:EJ:367:PHE:HB2	1.98	0.45
42:EK:11:GLN:HE21	42:EK:74:VAL:HB	1.82	0.45
42:EK:51:THR:CG2	42:EK:243:ARG:HB3	2.46	0.45
42:EK:141:PHE:O	42:EK:173:PRO:HD3	2.16	0.45
42:EK:163:LYS:O	42:EK:164:LYS:C	2.55	0.45
42:EK:394:LYS:O	42:EK:398:MET:HG2	2.16	0.45
42:FC:185:TYR:O	42:FC:186:ASN:C	2.55	0.45
41:FF:54:ALA:N	41:FF:58:LYS:O	2.42	0.45
41:FF:252:LYS:NZ	45:FF:502:GTP:O1B	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:FG:7:VAL:HB	42:FG:137:ILE:HG12	1.98	0.45
42:FI:136:LEU:HD13	42:FI:167:LEU:HB2	1.97	0.45
41:FJ:292:GLN:HG2	41:FJ:298:ASN:ND2	2.32	0.45
41:FL:181:GLU:HB3	41:FL:182:PRO:HD3	1.97	0.45
41:FL:286:VAL:HG11	41:FL:325:GLU:HB3	1.99	0.45
42:FM:5:ILE:HG22	42:FM:132:LEU:HD11	1.97	0.45
41:GD:189:VAL:HG11	41:GD:415:MET:HE3	1.99	0.45
41:GH:258:VAL:HG13	42:GI:407:TRP:HE1	1.81	0.45
42:HC:206:ASN:HA	42:HC:209:ILE:HG12	1.98	0.45
41:HD:246:LEU:HD21	45:HE:501:GTP:H3'	1.99	0.45
41:HD:375:GLN:HG3	41:HD:376:GLU:N	2.31	0.45
42:HE:119:LEU:O	42:HE:122:ILE:HG22	2.16	0.45
41:HF:131:GLN:HG3	41:HF:250:LEU:HD21	1.99	0.45
41:HF:189:VAL:HA	41:HF:192:LEU:HB2	1.98	0.45
42:HG:91:GLN:HE22	42:HG:125:LEU:HD21	1.81	0.45
42:HG:189:LEU:HD23	42:HG:189:LEU:HA	1.78	0.45
42:HG:238:ILE:H	42:HG:238:ILE:HG12	1.36	0.45
41:HL:170:VAL:HG23	41:HL:203:ASP:OD1	2.16	0.45
42:HM:211:ASP:O	42:HM:215:ARG:HG2	2.16	0.45
42:IE:211:ASP:HB3	42:IE:214:ARG:HH11	1.82	0.45
41:IH:47:ILE:HG12	41:IH:59:TYR:CE2	2.51	0.45
42:II:263:PRO:HD3	41:IJ:396:HIS:CD2	2.51	0.45
42:IK:205:ASP:OD1	42:IK:205:ASP:N	2.41	0.45
41:IN:246:LEU:H	41:IN:353:VAL:HG23	1.81	0.45
41:IN:381:ILE:HA	41:IN:384:GLN:NE2	2.31	0.45
42:JE:70:LEU:HB2	42:JE:98:ASP:HA	1.98	0.45
42:JK:265:ILE:HG22	42:JK:432:TYR:CZ	2.52	0.45
42:JK:304:LYS:HA	42:JK:304:LYS:HD2	1.71	0.45
41:KD:87:PRO:HA	41:KD:90:PHE:HD2	1.81	0.45
41:KD:317:PHE:O	41:KD:354:CYS:N	2.46	0.45
41:KJ:253:LEU:HD12	41:KJ:350:LYS:HD3	1.98	0.45
41:KN:8:GLN:NE2	41:KN:17:GLY:HA3	2.32	0.45
41:KN:337:ASN:HB3	41:KN:340:TYR:HB2	1.99	0.45
42:LE:323:VAL:HG23	42:LE:355:ILE:HG23	1.98	0.45
42:LI:139:HIS:NE2	42:LI:168:GLU:OE2	2.40	0.45
42:LM:135:PHE:HB2	42:LM:166:LYS:HA	1.97	0.45
42:MC:147:SER:OG	42:MC:186:ASN:O	2.34	0.45
41:MD:125:GLU:C	41:MD:127:CYS:H	2.20	0.45
41:MF:285:THR:O	41:MF:286:VAL:C	2.55	0.45
42:MG:70:LEU:HA	42:MG:70:LEU:HD13	1.78	0.45
41:MH:161:ASP:N	41:MH:161:ASP:OD1	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:MJ:199:THR:OG1	41:MJ:199:THR:O	2.35	0.45
42:MK:226:ASN:HD22	42:MK:367:ASP:HB3	1.80	0.45
41:MN:372:THR:O	41:MN:375:GLN:HG3	2.16	0.45
42:NC:397:LEU:H	42:NC:397:LEU:HG	1.45	0.45
41:ND:221:THR:O	41:ND:223:GLY:N	2.49	0.45
42:NE:36:MET:HG3	42:NE:61:HIS:NE2	2.31	0.45
42:NG:99:ALA:O	42:NG:100:ALA:C	2.54	0.45
41:NH:185:ALA:O	41:NH:189:VAL:HG23	2.17	0.45
41:NH:336:LYS:HB3	41:NH:336:LYS:HE2	1.31	0.45
42:NI:70:LEU:HD12	42:NI:70:LEU:HA	1.84	0.45
42:NK:52:PHE:HE2	42:NK:239:THR:HB	1.81	0.45
41:NL:113:VAL:HA	41:NL:116:VAL:HG22	1.98	0.45
42:OC:260:VAL:HG13	41:OD:397:TRP:CH2	2.52	0.45
42:OC:325:PRO:HG2	41:OD:221:THR:HA	1.99	0.45
41:OD:163:ILE:H	41:OD:251:ARG:HH21	1.64	0.45
41:OF:322:SER:OG	41:OF:323:MET:N	2.50	0.45
42:OG:31:GLN:H	42:OG:31:GLN:HG3	1.48	0.45
41:OJ:65:LEU:H	41:OJ:89:ASN:ND2	2.13	0.45
41:OJ:119:VAL:O	41:OJ:120:VAL:C	2.54	0.45
41:OJ:345:ILE:HG23	42:OK:398:MET:HE3	1.99	0.45
42:PA:49:PHE:HB2	42:PA:61:HIS:NE2	2.31	0.45
42:PA:217:LEU:O	42:PA:218:ASP:C	2.54	0.45
41:PB:333:VAL:O	41:PB:337:ASN:N	2.49	0.45
42:PE:332:ILE:HG23	42:PE:351:PHE:CE2	2.52	0.45
41:PF:19:LYS:HE2	41:PF:19:LYS:HB3	1.62	0.45
41:PF:262:ARG:HH21	41:PF:418:LEU:HG	1.81	0.45
41:PH:64:VAL:HG21	41:PH:120:VAL:HG22	1.99	0.45
41:PH:192:LEU:HB3	41:PH:196:THR:HG21	1.99	0.45
41:PH:375:GLN:H	41:PH:375:GLN:HG3	1.52	0.45
42:PI:9:VAL:HG21	42:PI:150:THR:HG23	1.98	0.45
42:PI:11:GLN:O	42:PI:12:ALA:C	2.52	0.45
42:PI:288:VAL:HA	42:PI:291:ILE:HG22	1.98	0.45
41:PL:11:GLN:O	41:PL:12:CYS:C	2.54	0.45
41:PL:107:THR:O	41:PL:108:GLU:C	2.55	0.45
41:PL:156:ARG:HG2	41:PL:195:ASN:HB3	1.98	0.45
41:PL:199:THR:HB	41:PL:265:PHE:HA	1.99	0.45
41:QB:290:THR:HG21	41:QB:329:GLN:HB3	1.98	0.45
41:QD:68:LEU:O	41:QD:93:GLY:N	2.47	0.45
41:QD:172:SER:HB2	41:QD:205:GLU:HG2	1.98	0.45
41:QD:382:SER:O	41:QD:386:THR:N	2.48	0.45
41:QD:390:ARG:NH2	41:QD:391:ARG:HH21	2.07	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:QG:265:ILE:HD12	42:QG:432:TYR:CE2	2.52	0.45
42:QI:69:ASP:HA	42:QI:145:THR:HG21	1.98	0.45
42:QK:150:THR:O	42:QK:154:MET:HG2	2.16	0.45
42:QK:323:VAL:HG23	42:QK:355:ILE:HG23	1.97	0.45
41:QL:124:ALA:HB1	41:QL:130:LEU:HD22	1.99	0.45
41:QL:156:ARG:HD3	41:QL:164:MET:HG2	1.98	0.45
41:QL:199:THR:HG23	41:QL:264:HIS:O	2.17	0.45
41:RB:196:THR:HG21	41:RB:264:HIS:CE1	2.52	0.45
41:RD:206:ALA:HA	41:RD:209:ASP:HB3	1.99	0.45
42:RE:103:TYR:CE2	42:RE:189:LEU:HD22	2.51	0.45
42:RG:298:PRO:HB3	42:RG:306:ASP:OD1	2.17	0.45
42:RK:261:PRO:HA	41:RL:394:PHE:CD1	2.51	0.45
42:SC:185:TYR:CE1	42:SC:398:MET:HB3	2.52	0.45
42:SC:307:PRO:HB3	42:SC:381:THR:HG21	1.98	0.45
41:SD:229:VAL:O	41:SD:233:MET:HG2	2.17	0.45
42:SE:125:LEU:HD23	42:SE:125:LEU:HA	1.82	0.45
42:SE:344:VAL:HG11	42:SE:346:TRP:CE2	2.51	0.45
42:SG:310:GLY:HA3	42:SG:383:ALA:HB2	1.98	0.45
42:SI:88:HIS:HB2	42:TI:283:HIS:CE1	2.52	0.45
41:SJ:121:ARG:O	41:SJ:125:GLU:HG3	2.16	0.45
41:SL:31:ASP:O	41:SL:34:GLY:N	2.48	0.45
41:SL:242:PHE:CB	41:SL:356:ILE:HG21	2.47	0.45
42:SM:147:SER:HB3	42:SM:190:THR:HB	1.97	0.45
42:TC:204:VAL:HG13	42:TC:302:MET:HG2	1.98	0.45
41:TD:170:VAL:HG11	41:TD:201:CYS:HB3	1.97	0.45
41:TF:324:LYS:NZ	42:TG:222:PRO:O	2.49	0.45
41:TF:350:LYS:HZ1	42:TG:181:VAL:HG12	1.81	0.45
41:TH:347:ASN:HD22	42:TI:181:VAL:HA	1.82	0.45
42:TI:385:ALA:HA	42:TI:388:TRP:HB2	1.98	0.45
41:TJ:67:ASP:OD1	41:TJ:68:LEU:N	2.49	0.45
41:TJ:310:TYR:N	41:TJ:340:TYR:O	2.50	0.45
42:TK:288:VAL:HG22	42:TK:373:ARG:HD3	1.97	0.45
42:TM:377:MET:HE2	42:TM:377:MET:HB3	1.69	0.45
41:UD:330:MET:HB3	41:UD:349:VAL:HG11	1.99	0.45
41:UD:344:TRP:HB2	42:UE:401:LYS:HD3	1.98	0.45
42:UE:8:HIS:CD2	42:UE:138:PHE:HD2	2.35	0.45
42:UE:136:LEU:HD23	42:UE:167:LEU:HB2	1.97	0.45
42:UE:175:PRO:HD2	42:UE:207:GLU:HG3	1.99	0.45
41:UF:376:GLU:HA	41:UF:379:LYS:HG2	1.98	0.45
42:UI:350:GLY:HA2	41:UJ:179:VAL:HG13	1.98	0.45
41:UJ:45:GLU:OE1	41:UJ:46:ARG:HG2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:UL:143:THR:N	43:UL:501:GDP:O2B	2.50	0.45
41:VD:130:LEU:HD21	41:VD:133:PHE:HE2	1.81	0.45
41:VD:205:GLU:HA	41:VD:208:TYR:HD2	1.81	0.45
42:VE:323:VAL:HG23	42:VE:355:ILE:HG23	1.97	0.45
42:VG:104:ALA:HB1	42:VG:411:GLU:HG3	1.97	0.45
41:VJ:165:ASN:OD1	41:VJ:198:GLU:OE2	2.35	0.45
42:VK:154:MET:HE2	42:VK:154:MET:HB3	1.90	0.45
42:VM:79:ARG:HH21	42:VM:92:LEU:HB3	1.80	0.45
42:VM:195:LEU:HD13	42:VM:266:HIS:CE1	2.50	0.45
41:WF:20:PHE:HA	41:WF:230:SER:HB2	1.99	0.45
42:WM:147:SER:HB2	42:WM:190:THR:HB	1.99	0.45
13:2S:232:LEU:HD23	42:GE:282:TYR:OH	2.16	0.45
22:3Y:172:ASP:N	22:3Y:172:ASP:OD1	2.49	0.45
24:4F:83:ARG:NH1	41:ID:39:ASP:HA	2.32	0.45
25:4J:37:MET:SD	25:4J:68:ILE:HD11	2.56	0.45
27:4O:75:PHE:HB3	27:4O:81:PHE:HE2	1.82	0.45
27:4S:150:ILE:HD12	27:4S:193:ILE:HD11	1.97	0.45
33:5S:152:GLN:HE21	35:6R:429:LYS:HD2	1.81	0.45
33:5T:325:PRO:HD2	33:5T:328:GLU:HB2	1.99	0.45
34:6A:309:LEU:O	34:6A:312:GLN:N	2.50	0.45
34:6F:390:SER:O	34:6F:394:LYS:HG2	2.16	0.45
34:6G:236:TYR:HD2	34:6G:328:VAL:HG11	1.82	0.45
35:6T:159:ARG:HG2	35:6T:162:ARG:NH1	2.32	0.45
41:AD:296:ALA:HA	41:AD:299:MET:HG2	1.98	0.45
45:AF:502:GTP:O2A	42:AG:140:SER:OG	2.35	0.45
41:AH:117:LEU:HD11	41:AH:155:ILE:HG22	1.99	0.45
41:AH:122:LYS:HE3	41:AH:122:LYS:HB3	1.44	0.45
42:AI:137:ILE:H	42:AI:137:ILE:HG12	1.60	0.45
41:AJ:256:ASN:HD21	42:AK:180:ALA:HB1	1.80	0.45
42:AK:103:TYR:O	42:AK:106:GLY:N	2.39	0.45
42:AK:195:LEU:HD22	42:AK:264:ARG:HD2	1.99	0.45
41:AL:354:CYS:HB3	41:AL:355:ASP:H	1.59	0.45
41:BD:7:LEU:HB2	41:BD:135:LEU:HG	1.99	0.45
41:BF:113:VAL:HG22	41:BF:150:LEU:HD21	1.97	0.45
42:BG:89:PRO:HG2	42:CG:279:GLU:O	2.15	0.45
41:BL:292:GLN:OE1	41:BL:298:ASN:ND2	2.50	0.45
41:CB:163:ILE:HB	41:CB:251:ARG:HH11	1.82	0.45
41:CD:47:ILE:HG12	41:CD:59:TYR:CD2	2.51	0.45
41:CF:115:SER:O	41:CF:119:VAL:HG23	2.16	0.45
42:CG:114:LEU:HB3	42:CG:149:PHE:CZ	2.51	0.45
41:CJ:201:CYS:O	41:CJ:268:PRO:HD3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:CL:2:ARG:N	41:CL:129:CYS:O	2.49	0.45
42:DC:296:PHE:CE2	42:DC:341:ILE:HG21	2.51	0.45
41:DD:269:GLY:N	41:DD:367:PHE:O	2.50	0.45
42:DE:142:GLY:HA2	42:DE:186:ASN:HB2	1.98	0.45
41:DF:257:MET:HG2	41:DF:266:PHE:HE2	1.82	0.45
41:DH:191:GLN:H	41:DH:191:GLN:HG2	1.60	0.45
41:DJ:151:LEU:O	41:DJ:154:LYS:N	2.50	0.45
41:DJ:256:ASN:C	41:DJ:350:LYS:HZ1	2.19	0.45
41:DJ:260:PHE:HE1	42:DK:401:LYS:O	2.00	0.45
41:DJ:424:GLN:HG2	41:DJ:425:TYR:N	2.31	0.45
42:DK:405:VAL:O	42:DK:408:TYR:N	2.50	0.45
41:ED:46:ARG:NH2	42:EE:72:PRO:O	2.50	0.45
41:EF:200:TYR:CD1	41:EF:266:PHE:HB2	2.51	0.45
42:EG:265:ILE:HG23	42:EG:432:TYR:CZ	2.52	0.45
42:EI:76:ASP:HA	42:EI:79:ARG:HG2	1.98	0.45
42:EI:205:ASP:OD1	42:EI:303:VAL:HA	2.17	0.45
42:EK:10:GLY:O	42:EK:14:VAL:N	2.44	0.45
41:EL:354:CYS:SG	41:EL:355:ASP:N	2.90	0.45
42:EM:293:ASN:O	42:EM:294:ALA:C	2.55	0.45
42:EM:338:LYS:HD2	42:EM:338:LYS:HA	1.35	0.45
41:FD:345:ILE:O	41:FD:346:PRO:C	2.55	0.45
42:FG:243:ARG:H	42:FG:243:ARG:HG3	1.53	0.45
41:FH:274:THR:OG1	41:FH:278:SER:OG	2.31	0.45
42:FM:274:PRO:HG3	42:FM:374:ALA:HA	1.99	0.45
42:GC:209:ILE:HG21	42:GC:227:LEU:HG	1.99	0.45
41:GD:51:TYR:HB3	41:GD:59:TYR:HB3	1.98	0.45
42:GE:269:LEU:HD22	42:GE:303:VAL:HG21	1.97	0.45
41:GF:139:LEU:HA	41:GF:145:SER:HB3	1.98	0.45
41:GF:398:TYR:HB3	41:GF:408:PHE:HZ	1.82	0.45
42:GG:311:LYS:H	42:GG:382:THR:HG22	1.81	0.45
42:GI:55:GLU:HG2	42:GI:61:HIS:NE2	2.31	0.45
42:GM:140:SER:C	42:GM:142:GLY:H	2.20	0.45
42:HC:384:ILE:HD12	42:HC:432:TYR:CE2	2.52	0.45
41:HD:254:ALA:C	41:HD:256:ASN:H	2.18	0.45
42:HE:276:ILE:HD12	42:HE:281:ALA:HA	1.99	0.45
41:HF:163:ILE:HD11	41:HF:251:ARG:NE	2.31	0.45
42:HG:88:HIS:ND1	42:HG:89:PRO:HD2	2.31	0.45
42:HG:158:SER:HA	42:HG:166:LYS:HE2	1.99	0.45
41:HJ:336:LYS:HB3	41:HJ:336:LYS:HE2	1.54	0.45
42:HK:191:THR:O	42:HK:195:LEU:HG	2.17	0.45
42:II:67:PHE:HB2	42:II:92:LEU:HD23	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:II:214:ARG:HH12	42:II:220:GLU:HG3	1.82	0.45
41:IJ:53:GLU:HG3	41:IJ:59:TYR:HE1	1.82	0.45
41:IN:171:PRO:HB3	41:IN:181:GLU:HG2	1.99	0.45
41:JF:138:SER:HA	41:JF:169:VAL:HB	1.98	0.45
41:JF:247:ASN:O	41:JF:252:LYS:HE3	2.16	0.45
41:JJ:47:ILE:HG12	41:JJ:51:TYR:HB2	1.99	0.45
42:JK:19:ALA:O	42:JK:229:ARG:NH2	2.50	0.45
42:JK:401:LYS:O	42:JK:402:ARG:C	2.54	0.45
41:JL:200:TYR:HB3	41:JL:268:PRO:HG3	1.97	0.45
41:JL:324:LYS:HE2	41:JL:324:LYS:HB3	1.86	0.45
41:KD:1:MET:HG3	42:KE:72:PRO:HG3	1.98	0.45
41:KD:141:GLY:O	41:KD:145:SER:OG	2.31	0.45
42:KE:207:GLU:OE2	42:KE:304:LYS:HE3	2.16	0.45
42:KM:31:GLN:HG2	42:KM:37:PRO:HD3	1.99	0.45
41:LD:270:PHE:O	41:LD:298:ASN:ND2	2.49	0.45
41:LF:42:LEU:HD23	41:LF:42:LEU:HA	1.82	0.45
42:LI:174:ALA:HB1	42:LI:207:GLU:HG3	1.99	0.45
41:LJ:200:TYR:HB3	41:LJ:268:PRO:HG3	1.98	0.45
41:LN:211:CYS:HA	41:LN:215:LEU:HB2	1.99	0.45
41:MD:170:VAL:HG11	41:MD:377:LEU:HD11	1.99	0.45
41:MD:372:THR:HG22	41:MD:422:TYR:HD2	1.82	0.45
42:MG:352:LYS:HA	41:MH:177:ASP:O	2.17	0.45
41:MJ:11:GLN:HG3	41:MJ:72:THR:OG1	2.17	0.45
41:MN:224:ASP:OD2	41:MN:224:ASP:N	2.50	0.45
42:NA:209:ILE:HA	42:NA:212:ILE:HD12	1.98	0.45
41:NB:346:PRO:HG3	42:NC:397:LEU:HD12	1.98	0.45
42:NC:119:LEU:HD11	42:NC:157:LEU:HD12	1.99	0.45
41:NF:19:LYS:HE3	41:NF:19:LYS:HB3	1.34	0.45
41:NF:84:ILE:O	41:NF:85:PHE:C	2.54	0.45
41:NF:361:LEU:H	41:NF:361:LEU:HG	1.49	0.45
41:NF:379:LYS:HB3	41:NF:379:LYS:HE2	1.70	0.45
41:NH:19:LYS:HE2	41:NH:19:LYS:HB2	1.64	0.45
41:NH:133:PHE:HD2	41:NH:164:MET:HB2	1.81	0.45
42:NK:164:LYS:O	42:NK:165:SER:C	2.55	0.45
42:NK:196:GLU:H	42:NK:196:GLU:HG3	1.49	0.45
42:NK:224:TYR:O	42:NK:225:THR:C	2.55	0.45
41:OB:249:ASP:H	41:OB:252:LYS:HB3	1.82	0.45
42:OC:276:ILE:HG23	42:OC:280:LYS:HB2	1.98	0.45
42:OE:334:THR:HG23	42:OE:335:ILE:HD12	1.99	0.45
42:OG:70:LEU:HG	42:OG:110:ILE:HG12	1.97	0.45
42:OG:161:TYR:O	42:OG:162:GLY:C	2.55	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:OG:362:VAL:HG21	42:OG:370:LYS:HA	1.99	0.45
42:OI:195:LEU:HD12	42:OI:266:HIS:HE1	1.80	0.45
41:OL:156:ARG:NH2	41:OL:162:ARG:O	2.50	0.45
42:PC:430:LYS:HB3	42:PC:430:LYS:HE2	1.41	0.45
42:PG:142:GLY:O	42:PG:183:GLU:HB3	2.16	0.45
42:PG:311:LYS:HB3	42:PG:312:TYR:H	1.54	0.45
41:PH:20:PHE:O	41:PH:24:ILE:HG23	2.16	0.45
41:PJ:182:PRO:O	41:PJ:186:THR:HG23	2.17	0.45
42:PK:115:ILE:HG12	42:PK:152:LEU:HD22	1.99	0.45
41:PL:57:GLY:O	41:PL:58:LYS:C	2.55	0.45
41:PL:273:LEU:H	41:PL:292:GLN:HE22	1.65	0.45
41:QB:69:GLU:HB3	41:QB:96:GLY:HA3	1.99	0.45
42:QE:157:LEU:HD22	42:QE:161:TYR:CE2	2.52	0.45
42:QE:250:VAL:HG12	42:QE:254:GLU:HG2	1.98	0.45
41:QH:236:VAL:HG12	41:QH:253:LEU:HD23	1.98	0.45
41:QH:332:ASN:O	41:QH:336:LYS:N	2.49	0.45
42:QI:427:ALA:O	42:QI:428:LEU:C	2.55	0.45
41:QJ:54:ALA:HB3	41:QJ:58:LYS:HB2	1.99	0.45
42:QK:184:PRO:HB3	42:QK:394:LYS:HB3	1.97	0.45
42:QK:263:PRO:HD3	41:QL:396:HIS:CD2	2.51	0.45
41:QL:148:GLY:O	41:QL:151:LEU:N	2.49	0.45
41:QL:156:ARG:HD2	41:QL:156:ARG:HA	1.65	0.45
41:RB:116:VAL:HG21	41:RB:151:LEU:HD11	1.99	0.45
42:RC:301:GLN:NE2	42:RC:306:ASP:HA	2.31	0.45
41:RH:387:ALA:HA	41:RH:390:ARG:HE	1.82	0.45
41:RJ:364:SER:HB2	41:RJ:365:ALA:H	1.69	0.45
42:RK:384:ILE:HG13	42:RK:388:TRP:CZ3	2.51	0.45
41:SD:117:LEU:O	41:SD:121:ARG:N	2.45	0.45
41:SF:86:ARG:HB2	41:TF:281:TYR:CE2	2.51	0.45
42:SG:248:LEU:HD23	42:SG:355:ILE:HB	1.98	0.45
42:SG:262:TYR:HB2	42:SG:265:ILE:HG22	1.98	0.45
41:SL:336:LYS:HE3	41:SL:336:LYS:HB3	1.62	0.45
42:TE:102:ASN:HB3	42:TE:105:ARG:HG3	1.98	0.45
42:TG:170:SER:HB3	42:TG:203:MET:HE1	1.98	0.45
42:TM:256:GLN:O	42:TM:260:VAL:N	2.36	0.45
42:UC:285:GLN:O	42:UC:287:SER:N	2.50	0.45
42:UC:336:LYS:HA	42:UC:343:PHE:HE2	1.82	0.45
41:UD:347:ASN:ND2	42:UE:178:SER:O	2.49	0.45
42:UG:261:PRO:HA	41:UH:394:PHE:CE1	2.52	0.45
42:UG:273:ALA:HB2	42:UG:295:CYS:HB3	1.98	0.45
42:UK:122:ILE:HG12	42:UK:123:ARG:N	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:VD:42:LEU:HD11	41:VD:243:PRO:HG3	1.99	0.45
42:VE:144:GLY:N	45:VE:501:GTP:O1G	2.48	0.45
42:VE:329:ASN:O	41:VF:174:LYS:NZ	2.49	0.45
41:VH:237:THR:O	41:VH:241:ARG:NE	2.46	0.45
42:WI:360:PRO:HG3	42:WI:374:ALA:HB2	1.97	0.45
42:WK:43:GLY:N	42:WK:46:ASP:OD2	2.46	0.45
42:WK:70:LEU:HD12	42:WK:99:ALA:HB2	1.98	0.45
41:WL:170:VAL:HG11	41:WL:377:LEU:HD11	1.97	0.45
41:WL:345:ILE:HD13	42:WM:404:PHE:HE2	1.82	0.45
42:WM:320:ARG:HH12	42:WM:360:PRO:CB	2.28	0.45
2:1F:31:LEU:HD11	26:4M:70:VAL:HG23	1.99	0.45
11:2K:370:LEU:HD22	42:VI:372:GLN:OE1	2.15	0.45
19:3J:27:ARG:NH1	42:LC:244:PHE:O	2.49	0.45
20:3O:646:ARG:HA	20:3O:646:ARG:HD2	1.75	0.45
20:3Q:425:LYS:HZ2	20:3Q:427:ILE:HG13	1.81	0.45
21:3S:151:LYS:HG2	21:3S:154:TYR:HB2	1.99	0.45
22:3X:175:LYS:HA	22:3X:175:LYS:HD3	1.75	0.45
22:3Z:192:PHE:HA	22:3Z:199:LEU:HD11	1.99	0.45
22:4A:56:ARG:H	41:BJ:41:ASP:CG	2.20	0.45
27:4R:104:ASP:C	27:4R:106:HIS:H	2.19	0.45
31:5J:128:CYS:SG	42:PA:279:GLU:O	2.73	0.45
32:5O:206:ARG:HD3	32:5O:206:ARG:HA	1.49	0.45
33:5S:8:PRO:HD2	35:6S:326:LEU:O	2.16	0.45
33:5S:383:SER:HA	33:5S:386:LEU:HD12	1.98	0.45
34:6C:222:GLU:HA	34:6C:339:GLN:HG2	1.97	0.45
34:6F:231:GLU:HA	34:6F:234:LYS:HE2	1.99	0.45
34:6F:451:THR:HA	34:6F:454:THR:HG22	1.98	0.45
34:6L:274:LEU:HB3	34:6M:395:VAL:HG23	1.98	0.45
34:6M:296:VAL:O	34:6M:300:TRP:N	2.42	0.45
37:7F:66:PRO:HB2	37:7F:69:ARG:HD2	1.98	0.45
37:7F:67:GLY:HA3	42:OC:338:LYS:HE3	1.98	0.45
38:7H:159:PRO:HD3	42:IE:338:LYS:HG3	1.97	0.45
38:7H:202:ALA:HB1	42:IC:308:ARG:HE	1.81	0.45
41:AB:395:LEU:HG	41:AB:398:TYR:HB2	1.98	0.45
42:AG:326:LYS:HE2	41:AH:219:THR:HA	1.98	0.45
41:AH:267:MET:HE1	41:AH:371:SER:HB3	1.98	0.45
42:AI:88:HIS:O	42:AI:89:PRO:C	2.55	0.45
42:AI:328:VAL:HG11	42:AI:353:VAL:CG1	2.46	0.45
41:AL:117:LEU:HA	41:AL:120:VAL:HB	1.99	0.45
41:AL:122:LYS:HE3	41:AL:122:LYS:HB3	1.76	0.45
42:BK:140:SER:HA	42:BK:171:ILE:H	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BK:346:TRP:CH2	42:BK:435:VAL:HG13	2.52	0.45
42:CC:187:SER:O	42:CC:191:THR:HG22	2.16	0.45
41:CF:99:ASN:O	41:CF:180:VAL:HG21	2.15	0.45
42:CG:5:ILE:HD12	42:CG:65:ALA:HA	1.97	0.45
42:CG:273:ALA:HB2	42:CG:375:VAL:CG1	2.47	0.45
42:CI:168:GLU:HB2	42:CI:201:ALA:HA	1.98	0.45
41:CJ:286:VAL:HB	41:CJ:287:PRO:HD3	1.99	0.45
41:CJ:395:LEU:HD13	41:CJ:395:LEU:HA	1.72	0.45
42:DE:11:GLN:NE2	42:DE:71:GLU:HB3	2.32	0.45
42:DE:322:ASP:N	42:DE:372:GLN:O	2.47	0.45
41:DF:269:GLY:N	41:DF:367:PHE:O	2.50	0.45
41:DJ:139:LEU:HD21	41:DJ:170:VAL:HG12	1.99	0.45
41:DJ:156:ARG:HD3	41:DJ:164:MET:HE3	1.98	0.45
41:DJ:165:ASN:HA	41:DJ:198:GLU:O	2.16	0.45
41:DJ:215:LEU:O	41:DJ:216:LYS:C	2.55	0.45
41:DJ:313:VAL:HG12	41:DJ:367:PHE:HE1	1.79	0.45
42:DK:5:ILE:HG13	42:DK:132:LEU:HD11	1.97	0.45
42:DK:290:GLU:H	42:DK:290:GLU:HG2	1.62	0.45
41:DL:107:THR:O	41:DL:109:GLY:N	2.49	0.45
41:DL:174:LYS:HE3	41:DL:174:LYS:HB3	1.39	0.45
42:DM:141:PHE:O	42:DM:143:GLY:N	2.50	0.45
42:EC:47:ASP:OD1	42:EC:50:ASN:ND2	2.50	0.45
42:EC:217:LEU:HG	42:EC:275:VAL:HG12	1.99	0.45
41:ED:235:GLY:O	41:ED:238:THR:HG22	2.16	0.45
42:EE:191:THR:OG1	42:EE:192:HIS:N	2.50	0.45
42:EE:195:LEU:HD12	42:EE:195:LEU:HA	1.74	0.45
42:EE:273:ALA:H	42:EE:274:PRO:HD2	1.82	0.45
42:EG:111:GLY:O	42:EG:113:GLU:N	2.50	0.45
42:EG:349:THR:HG22	41:EH:176:SER:HB2	1.98	0.45
42:EG:391:LEU:HD23	42:EG:391:LEU:HA	1.82	0.45
41:EJ:8:GLN:NE2	41:EJ:65:LEU:HD22	2.32	0.45
42:EK:124:LYS:HE3	42:EK:124:LYS:HB3	1.65	0.45
42:EK:206:ASN:O	42:EK:207:GLU:C	2.55	0.45
41:EL:240:LEU:HD13	41:EL:249:ASP:HB2	1.99	0.45
42:EM:204:VAL:HA	42:EM:303:VAL:HG22	1.99	0.45
42:EM:259:LEU:HD12	42:EM:259:LEU:HA	1.81	0.45
42:FC:391:LEU:O	42:FC:392:ASP:C	2.55	0.45
42:FC:404:PHE:HA	42:FC:406:HIS:CE1	2.51	0.45
41:FD:221:THR:O	41:FD:223:GLY:N	2.50	0.45
41:FD:226:ASN:HD21	43:FD:501:GDP:HN1	1.65	0.45
42:FG:141:PHE:HD2	42:FG:172:TYR:HA	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:FH:238:THR:HG21	41:FH:318:ARG:HD3	1.97	0.45
42:FM:201:ALA:HB3	42:FM:267:PHE:CD1	2.51	0.45
42:FM:217:LEU:HB3	42:FM:219:ILE:HG12	1.98	0.45
41:GD:193:VAL:HG23	41:GD:265:PHE:HE1	1.82	0.45
42:GG:324:VAL:HG21	41:GH:219:THR:HB	1.98	0.45
41:GJ:250:LEU:HD13	41:GJ:250:LEU:HA	1.78	0.45
41:GL:274:THR:HG22	41:GL:282:ARG:NH2	2.32	0.45
41:HB:338:SER:OG	41:HB:339:SER:N	2.46	0.45
42:HC:210:TYR:CD1	42:HC:222:PRO:HG2	2.52	0.45
42:HC:273:ALA:C	42:HC:275:VAL:H	2.20	0.45
41:HD:299:MET:SD	41:HD:310:TYR:OH	2.75	0.45
42:HI:246:GLY:HA2	42:HI:357:TYR:CD1	2.52	0.45
42:HK:292:THR:HG1	42:HK:319:TYR:HH	1.65	0.45
41:HL:121:ARG:O	41:HL:125:GLU:HG2	2.17	0.45
41:IF:13:GLY:HA2	41:IF:16:ILE:HG22	1.99	0.45
42:IK:148:GLY:O	42:IK:151:SER:OG	2.33	0.45
42:IK:254:GLU:HB2	42:IK:258:ASN:ND2	2.31	0.45
41:IN:271:ALA:O	41:IN:273:LEU:N	2.50	0.45
41:IN:282:ARG:HD3	41:IN:283:ALA:N	2.29	0.45
41:JD:58:LYS:HE3	41:JD:58:LYS:HB3	1.52	0.45
42:JE:172:TYR:N	42:JE:204:VAL:O	2.49	0.45
42:JG:244:PHE:HD2	42:JG:356:ASN:HD21	1.64	0.45
41:JJ:24:ILE:HG22	41:JJ:51:TYR:HE1	1.81	0.45
41:JJ:222:TYR:O	41:JJ:226:ASN:N	2.44	0.45
42:JK:278:ALA:HB2	42:JK:369:ALA:HA	1.99	0.45
41:JL:86:ARG:HE	41:JL:86:ARG:HB2	1.45	0.45
41:JL:154:LYS:HE2	41:JL:154:LYS:HB2	1.57	0.45
42:LI:335:ILE:HG23	42:LI:341:ILE:HD11	1.99	0.45
42:MC:54:SER:HB3	42:MC:62:VAL:HG23	1.98	0.45
42:MC:319:TYR:HB3	42:MC:323:VAL:HG21	1.98	0.45
42:MK:2:ARG:NH2	42:MK:243:ARG:HA	2.31	0.45
41:NB:336:LYS:HA	41:NB:336:LYS:HD3	1.88	0.45
42:NG:401:LYS:HB2	42:NG:401:LYS:HE2	1.62	0.45
42:NI:112:LYS:HA	42:NI:112:LYS:HD3	1.62	0.45
41:OB:170:VAL:HG13	41:OB:171:PRO:O	2.17	0.45
41:OB:392:LYS:O	41:OB:395:LEU:HB2	2.16	0.45
41:OH:217:LEU:HD22	41:OH:217:LEU:HA	1.74	0.45
42:OI:308:ARG:HG2	42:OI:340:THR:HG22	1.98	0.45
41:OJ:259:PRO:O	42:OK:406:HIS:HE1	2.00	0.45
41:OL:398:TYR:HB3	41:OL:408:PHE:HZ	1.81	0.45
41:PB:207:LEU:HB3	41:PB:225:LEU:HD12	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:PG:201:ALA:HB3	42:PG:267:PHE:CD2	2.52	0.45
42:PG:212:ILE:HD11	42:PG:300:ASN:HA	1.98	0.45
42:PG:296:PHE:CZ	42:PG:351:PHE:HE1	2.34	0.45
41:PH:269:GLY:HA2	41:PH:300:MET:HG3	1.98	0.45
41:PJ:143:THR:HG22	43:PJ:501:GDP:O2B	2.16	0.45
42:PK:110:ILE:O	42:PK:113:GLU:HG2	2.17	0.45
41:QD:49:VAL:HG21	41:QD:241:ARG:HG3	1.98	0.45
42:QE:304:LYS:HA	42:QE:304:LYS:HD2	1.74	0.45
42:QE:360:PRO:HG2	42:QE:371:VAL:HG13	1.98	0.45
41:QH:313:VAL:HG12	41:QH:349:VAL:HG23	1.98	0.45
42:QI:183:GLU:O	42:QI:185:TYR:N	2.43	0.45
42:QI:212:ILE:HD12	42:QI:212:ILE:HA	1.78	0.45
41:QJ:142:GLY:HA2	41:QJ:184:ASN:HD21	1.82	0.45
41:QJ:389:PHE:CZ	41:QJ:405:GLU:HG2	2.51	0.45
42:QK:114:LEU:HB3	42:QK:149:PHE:CE1	2.52	0.45
41:QL:167:PHE:HB3	41:QL:200:TYR:CD2	2.52	0.45
41:QL:261:PRO:O	41:QL:262:ARG:C	2.55	0.45
41:RB:28:HIS:ND1	41:RB:47:ILE:HG13	2.32	0.45
41:RB:210:ILE:HB	41:RB:273:LEU:HD21	1.99	0.45
41:RB:379:LYS:NZ	41:RB:419:VAL:HG21	2.31	0.45
41:RJ:327:ASP:O	41:RJ:328:GLU:C	2.55	0.45
42:RK:127:ASP:OD1	42:SK:293:ASN:ND2	2.49	0.45
41:RL:318:ARG:HA	41:RL:354:CYS:HB3	1.98	0.45
42:SC:381:THR:O	42:SC:432:TYR:OH	2.35	0.45
41:SD:7:LEU:HD13	41:SD:64:VAL:HB	1.98	0.45
41:SD:266:PHE:HE1	41:SD:370:ASN:HD22	1.65	0.45
41:SD:305:PRO:HB3	41:SD:310:TYR:HE1	1.82	0.45
42:SE:49:PHE:CD2	42:SE:53:PHE:HB2	2.50	0.45
41:SF:289:LEU:HD12	41:SF:289:LEU:HA	1.72	0.45
41:SH:87:PRO:HA	41:SH:90:PHE:HD2	1.81	0.45
41:SH:330:MET:HB3	41:SH:349:VAL:HG11	1.98	0.45
42:SI:326:LYS:HE3	42:SI:326:LYS:HB3	1.58	0.45
42:SM:2:ARG:O	42:SM:51:THR:HA	2.17	0.45
42:TE:276:ILE:HD11	42:TE:280:LYS:HB3	1.99	0.45
42:TE:385:ALA:HB2	42:TE:432:TYR:HD2	1.82	0.45
41:TF:139:LEU:HD12	41:TF:170:VAL:HA	1.99	0.45
41:TH:342:VAL:HG22	41:TH:344:TRP:HB2	1.99	0.45
42:TK:260:VAL:HG13	42:TK:266:HIS:HB3	1.99	0.45
41:TL:60:VAL:HG21	41:TL:86:ARG:NH1	2.32	0.45
42:TM:6:SER:O	42:TM:66:VAL:N	2.48	0.45
42:TM:180:ALA:HB3	42:TM:183:GLU:HG2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:UE:21:TRP:CH2	42:UE:52:PHE:HB3	2.51	0.45
41:UF:27:GLU:HG2	41:UF:242:PHE:CZ	2.51	0.45
42:UG:56:THR:OG1	42:UG:57:GLY:N	2.49	0.45
41:UH:27:GLU:OE1	41:UH:318:ARG:NH2	2.49	0.45
41:UH:263:LEU:HG	41:UH:422:TYR:HE1	1.82	0.45
42:UK:135:PHE:CZ	42:UK:161:TYR:HD2	2.34	0.45
42:VG:139:HIS:NE2	42:VG:168:GLU:OE2	2.49	0.45
42:VK:238:ILE:HG13	42:VK:239:THR:HG23	1.99	0.45
42:VK:280:LYS:HA	42:VK:283:HIS:CD2	2.51	0.45
41:VL:131:GLN:HE21	41:VL:250:LEU:HB2	1.82	0.45
42:VM:317:LEU:N	42:VM:352:LYS:O	2.44	0.45
42:WG:16:ILE:HA	42:WG:228:ASN:HB3	1.99	0.45
42:WG:79:ARG:NH2	42:WG:92:LEU:O	2.45	0.45
42:WI:164:LYS:HA	42:WI:164:LYS:HD3	1.55	0.45
41:WJ:31:ASP:OD2	41:WJ:35:THR:N	2.50	0.45
41:WL:311:LEU:HD23	41:WL:312:THR:HG23	1.98	0.45
41:WN:204:ASN:OD1	43:WN:501:GDP:O2'	2.35	0.45
11:2L:87:GLU:OE2	42:WK:79:ARG:NH1	2.49	0.45
11:2L:209:ILE:HD13	42:UG:279:GLU:HG3	1.99	0.45
12:2O:196:LYS:NZ	42:VC:58:ALA:O	2.41	0.45
19:3L:281:ARG:HG2	41:DL:219:THR:HG21	1.99	0.45
20:3O:539:LYS:HD2	20:3O:539:LYS:HA	1.72	0.45
20:3P:270:LEU:HD11	20:3P:332:VAL:HG23	1.99	0.45
20:3P:440:ILE:HD13	20:3P:451:VAL:HB	1.99	0.45
21:3T:51:THR:OG1	21:3T:52:MET:N	2.50	0.45
21:3U:87:ARG:NH1	42:LI:195:LEU:O	2.50	0.45
22:3Y:106:ASN:HA	42:BE:219:ILE:HB	1.99	0.45
22:3Z:28:ARG:O	42:CI:221:ARG:NH2	2.49	0.45
24:4F:55:ARG:O	24:4F:58:ARG:HB2	2.17	0.45
27:4O:39:SER:H	27:4O:53:VAL:HA	1.82	0.45
28:4W:40:ASN:O	28:4W:40:ASN:ND2	2.49	0.45
31:5J:44:ILE:HG12	31:5J:111:LEU:HD11	1.98	0.45
31:5J:122:VAL:HA	31:5J:125:HIS:HD1	1.81	0.45
33:5V:92:LEU:HD13	33:5V:240:ARG:HG3	1.99	0.45
34:6C:199:LEU:O	34:6C:200:PHE:C	2.55	0.45
34:6D:359:ASN:O	34:6D:363:THR:HG23	2.16	0.45
34:6F:467:TYR:CG	35:6V:9:THR:HA	2.52	0.45
34:6M:218:GLU:OE1	34:6M:339:GLN:NE2	2.50	0.45
35:6U:118:GLN:HG2	35:6U:122:GLU:OE1	2.16	0.45
35:6V:184:ARG:HA	35:6V:184:ARG:HD2	1.76	0.45
38:7H:64:GLN:O	38:7H:65:GLU:HG3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:AB:253:LEU:HD23	41:AB:350:LYS:HD3	1.99	0.45
42:AE:139:HIS:CD2	42:AE:150:THR:HG21	2.52	0.45
41:AF:253:LEU:HD23	41:AF:350:LYS:HD3	1.97	0.45
41:AF:377:LEU:HG	41:AF:380:ARG:HH21	1.81	0.45
41:AH:86:ARG:O	41:AH:87:PRO:C	2.56	0.45
41:AH:188:SER:O	41:AH:189:VAL:C	2.55	0.45
42:AK:11:GLN:HG3	42:AK:74:VAL:HB	1.98	0.45
41:BB:255:VAL:HG23	42:BC:407:TRP:HB3	1.99	0.45
42:BC:431:ASP:HA	42:BC:434:GLU:HG2	1.99	0.45
41:BD:49:VAL:HG21	41:BD:240:LEU:O	2.16	0.45
42:BE:257:THR:HG21	41:BF:98:GLY:O	2.17	0.45
41:CB:12:CYS:HB3	41:CB:138:SER:HB3	1.98	0.45
41:CF:328:GLU:HA	41:CF:331:LEU:HD23	1.98	0.45
42:CG:105:ARG:HB3	42:CG:105:ARG:HH21	1.82	0.45
42:CG:255:PHE:CE2	42:CG:259:LEU:HD11	2.52	0.45
41:CH:232:THR:HG21	41:CH:268:PRO:HB3	1.99	0.45
42:CI:167:LEU:HD12	42:CI:202:PHE:CE2	2.51	0.45
41:CJ:342:VAL:HG12	41:CJ:345:ILE:HG13	1.99	0.45
42:CK:27:GLU:OE2	42:CK:236:SER:OG	2.27	0.45
41:CL:229:VAL:HA	41:CL:232:THR:HG22	1.99	0.45
42:DC:174:ALA:HB1	42:DC:207:GLU:HG3	1.99	0.45
42:DE:175:PRO:HG3	42:DE:304:LYS:HB3	1.99	0.45
41:DF:2:ARG:NH2	41:DF:240:LEU:HA	2.32	0.45
41:DF:312:THR:HA	41:DF:348:ASN:HB2	1.98	0.45
42:DG:31:GLN:HG2	42:DG:35:GLN:H	1.82	0.45
42:DG:234:ILE:HD11	42:DG:272:TYR:HB2	1.98	0.45
42:DI:179:THR:O	42:DI:179:THR:OG1	2.34	0.45
42:DI:261:PRO:HG3	42:DI:313:MET:SD	2.56	0.45
41:DJ:65:LEU:O	41:DJ:90:PHE:HA	2.16	0.45
42:DM:337:THR:OG1	42:DM:338:LYS:N	2.43	0.45
42:EC:405:VAL:O	42:EC:409:VAL:N	2.47	0.45
41:EF:255:VAL:HG22	42:EG:407:TRP:CE2	2.51	0.45
42:EG:274:PRO:HB2	42:EG:371:VAL:HG21	1.99	0.45
41:EH:148:GLY:O	41:EH:152:ILE:HG12	2.16	0.45
42:EI:257:THR:O	42:EI:258:ASN:ND2	2.49	0.45
42:FC:112:LYS:H	42:FC:112:LYS:HG3	1.52	0.45
42:FC:397:LEU:HD12	42:FC:397:LEU:HA	1.78	0.45
42:FE:273:ALA:HB2	42:FE:295:CYS:HB3	1.97	0.45
41:FH:170:VAL:N	41:FH:202:ILE:O	2.48	0.45
42:FM:125:LEU:HA	42:FM:128:GLN:HG2	1.98	0.45
42:FM:425:MET:HA	42:FM:428:LEU:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:GD:252:LYS:HB2	41:GD:252:LYS:HE3	1.47	0.45
42:GE:21:TRP:HA	42:GE:24:TYR:HD2	1.81	0.45
41:GH:7:LEU:N	41:GH:134:GLN:O	2.46	0.45
42:GM:297:GLU:O	42:GM:298:PRO:C	2.55	0.45
42:HC:227:LEU:O	42:HC:231:ILE:HG12	2.16	0.45
42:HC:244:PHE:HB3	42:HC:358:GLN:HG3	1.99	0.45
42:HC:274:PRO:HB3	42:HC:371:VAL:HG11	1.99	0.45
41:HD:103:LYS:HE2	41:HD:103:LYS:HB2	1.36	0.45
41:HF:100:ASN:HB3	41:HF:103:LYS:HB2	1.99	0.45
42:HI:209:ILE:HG21	42:HI:227:LEU:HB3	1.98	0.45
41:HJ:321:MET:HE3	41:HJ:321:MET:HB3	1.89	0.45
42:IE:63:PRO:HG2	42:IE:87:PHE:CD1	2.52	0.45
41:IF:316:VAL:HA	41:IF:352:ALA:HB3	1.98	0.45
42:IG:405:VAL:HG23	42:IG:418:PHE:HE2	1.81	0.45
41:IH:226:ASN:HD21	43:IH:501:GDP:HN1	1.65	0.45
41:JD:258:VAL:HG21	41:JD:264:HIS:HB3	1.98	0.45
42:JE:129:CYS:SG	42:JE:132:LEU:HB2	2.57	0.45
42:JG:274:PRO:HG3	42:JG:374:ALA:HA	1.99	0.45
42:JI:265:ILE:HG22	42:JI:432:TYR:HE1	1.82	0.45
41:JJ:260:PHE:HB2	41:JJ:263:LEU:HD12	1.97	0.45
42:JK:254:GLU:OE2	42:JK:352:LYS:HG2	2.17	0.45
42:JK:424:ASP:HA	42:NI:339:ARG:HH22	1.81	0.45
41:JL:121:ARG:O	41:JL:125:GLU:HG2	2.17	0.45
41:KD:209:ASP:OD2	41:KD:210:ILE:N	2.50	0.45
41:KL:232:THR:HG21	41:KL:268:PRO:HB3	1.99	0.45
41:KL:313:VAL:N	41:KL:348:ASN:O	2.41	0.45
42:KM:76:ASP:HA	42:KM:79:ARG:HD2	1.99	0.45
42:LE:319:TYR:HB3	42:LE:323:VAL:HG21	1.98	0.45
42:LG:224:TYR:O	42:LG:228:ASN:ND2	2.50	0.45
41:LH:331:LEU:HD13	42:LI:177:VAL:HB	1.99	0.45
42:LI:242:LEU:HD11	42:LI:252:LEU:HG	1.97	0.45
41:MH:28:HIS:CE1	41:MH:241:ARG:HD2	2.52	0.45
42:MK:315:CYS:H	42:MK:351:PHE:HB2	1.81	0.45
42:MK:352:LYS:NZ	41:ML:99:ASN:OD1	2.42	0.45
41:MN:310:TYR:CD1	41:MN:371:SER:HB2	2.52	0.45
41:MN:344:TRP:HE3	41:MN:345:ILE:HG13	1.82	0.45
42:NA:311:LYS:HE2	42:NA:311:LYS:HB3	1.46	0.45
41:NB:64:VAL:HA	41:NB:89:ASN:HB3	1.98	0.45
41:NB:150:LEU:HD23	41:NB:150:LEU:HA	1.72	0.45
41:NB:302:ALA:O	41:NB:303:CYS:C	2.55	0.45
41:NB:345:ILE:HG22	41:NB:348:ASN:HD22	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:NC:183:GLU:HB3	42:NC:184:PRO:HD3	1.98	0.45
42:NC:359:PRO:O	42:NC:360:PRO:C	2.56	0.45
41:ND:255:VAL:HG11	42:NE:100:ALA:O	2.17	0.45
42:NE:62:VAL:HA	42:NE:88:HIS:CE1	2.51	0.45
41:NF:189:VAL:O	41:NF:190:HIS:C	2.55	0.45
41:NF:279:GLN:HB2	41:NF:280:GLN:H	1.63	0.45
42:NG:430:LYS:HA	42:NG:430:LYS:HD2	1.67	0.45
41:NL:270:PHE:HD2	41:NL:273:LEU:HB2	1.81	0.45
42:OA:196:GLU:OE1	42:OA:197:HIS:NE2	2.50	0.45
41:OB:130:LEU:HD23	41:OB:130:LEU:HA	1.81	0.45
41:OB:156:ARG:HA	41:OB:156:ARG:HD3	1.54	0.45
41:OB:163:ILE:HG13	41:OB:165:ASN:HD21	1.81	0.45
41:OB:182:PRO:HB3	41:OB:384:GLN:CB	2.47	0.45
42:OE:88:HIS:HB2	42:OE:91:GLN:OE1	2.17	0.45
41:OF:180:VAL:O	41:OF:184:ASN:ND2	2.47	0.45
42:OG:335:ILE:HG23	42:OG:341:ILE:HD12	1.98	0.45
41:OH:271:ALA:HB2	41:OH:365:ALA:HB3	1.98	0.45
41:OJ:320:ARG:HA	41:OJ:320:ARG:HD2	1.67	0.45
41:OL:1:MET:SD	41:OL:2:ARG:NH1	2.90	0.45
41:PB:350:LYS:HA	42:PC:179:THR:O	2.17	0.45
41:PD:258:VAL:HG23	42:PE:407:TRP:HE1	1.82	0.45
41:PD:398:TYR:O	41:PD:399:THR:C	2.55	0.45
41:PF:54:ALA:HA	41:QF:283:ALA:HB2	1.99	0.45
41:PF:284:LEU:H	41:PF:284:LEU:HG	1.55	0.45
42:PG:155:GLU:C	42:PG:157:LEU:H	2.20	0.45
42:PG:201:ALA:C	42:PG:268:PRO:HD2	2.37	0.45
41:PH:190:HIS:C	41:PH:192:LEU:H	2.20	0.45
41:PH:260:PHE:CE1	42:PI:403:ALA:HA	2.52	0.45
42:PI:12:ALA:HB3	42:PI:140:SER:HB3	1.99	0.45
42:PI:292:THR:HG1	42:PI:319:TYR:HH	1.63	0.45
42:PK:384:ILE:H	42:PK:384:ILE:HG12	1.59	0.45
41:QB:185:ALA:O	41:QB:188:SER:OG	2.28	0.45
41:QD:311:LEU:HB2	41:QD:370:ASN:HB3	1.99	0.45
42:QE:402:ARG:HD3	42:QE:405:VAL:HG11	1.98	0.45
41:QF:139:LEU:HD12	41:QF:170:VAL:HA	1.99	0.45
41:QF:170:VAL:HB	41:QF:201:CYS:HB2	1.98	0.45
41:QF:255:VAL:HG21	42:QG:101:ASN:H	1.82	0.45
42:QG:51:THR:HG21	42:QG:243:ARG:HG2	1.99	0.45
42:QG:92:LEU:HD12	42:QG:92:LEU:HA	1.81	0.45
41:QH:215:LEU:HD23	41:QH:215:LEU:HA	1.81	0.45
41:QJ:101:TRP:HB2	41:QJ:184:ASN:HA	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:QJ:257:MET:HE3	41:QJ:314:ALA:HB2	1.98	0.45
42:QK:31:GLN:C	42:QK:33:ASP:H	2.19	0.45
41:QL:2:ARG:H	41:QL:2:ARG:HG3	1.41	0.45
41:QL:254:ALA:O	41:QL:258:VAL:HG22	2.16	0.45
41:RB:24:ILE:HG12	41:RB:241:ARG:NH1	2.29	0.45
41:RB:64:VAL:HG21	41:RB:120:VAL:HG12	1.98	0.45
41:RD:70:PRO:HB3	41:RD:92:PHE:HD2	1.82	0.45
41:RH:255:VAL:HG23	42:RI:407:TRP:CD1	2.52	0.45
42:RK:206:ASN:HB3	42:RK:210:TYR:CE1	2.51	0.45
42:RK:263:PRO:HG3	41:RL:396:HIS:CD2	2.52	0.45
41:RL:172:SER:OG	41:RL:175:VAL:O	2.28	0.45
41:SH:14:ASN:ND2	41:SH:67:ASP:HB3	2.32	0.45
42:SI:114:LEU:HD23	42:SI:114:LEU:HA	1.75	0.45
42:SI:269:LEU:HD22	42:SI:303:VAL:HG11	1.99	0.45
42:SK:7:VAL:HB	42:SK:137:ILE:HG12	1.98	0.45
41:SL:207:LEU:HB3	41:SL:225:LEU:HB3	1.99	0.45
42:SM:172:TYR:CG	42:SM:173:PRO:HD2	2.52	0.45
42:TC:60:LYS:HE3	42:UC:282:TYR:CZ	2.51	0.45
42:TC:137:ILE:HB	42:TC:168:GLU:HB3	1.98	0.45
41:TD:395:LEU:HG	41:TD:399:THR:HG23	1.98	0.45
42:TE:143:GLY:O	42:TE:147:SER:N	2.47	0.45
42:TG:430:LYS:HE3	42:TG:430:LYS:HB2	1.79	0.45
41:TH:87:PRO:HA	41:TH:90:PHE:HD2	1.80	0.45
42:TK:136:LEU:HA	42:TK:167:LEU:O	2.17	0.45
42:TK:315:CYS:HA	42:TK:379:SER:HA	1.99	0.45
41:TL:325:GLU:HA	41:TL:328:GLU:HG3	1.99	0.45
41:UD:130:LEU:O	41:UD:162:ARG:NE	2.49	0.45
41:UD:235:GLY:HA2	41:UD:238:THR:HG23	1.98	0.45
41:UH:86:ARG:HA	41:VH:281:TYR:CE2	2.52	0.45
41:UH:125:GLU:OE1	41:UH:159:TYR:OH	2.31	0.45
41:UL:67:ASP:OD2	41:UL:143:THR:HG21	2.16	0.45
41:UL:276:ARG:HG3	41:UL:277:GLY:H	1.80	0.45
42:VM:228:ASN:OD1	45:VM:501:GTP:N1	2.50	0.45
42:VM:244:PHE:HB2	42:VM:356:ASN:HD21	1.82	0.45
42:VM:288:VAL:HA	42:VM:291:ILE:HG22	1.99	0.45
42:WI:310:GLY:HA3	42:WI:383:ALA:HB2	1.98	0.45
2:1F:76:ILE:CD1	42:HM:342:GLN:HB3	2.46	0.45
12:2P:389:GLY:HA3	21:3U:13:ILE:HG22	1.99	0.45
20:3O:620:ASN:ND2	20:3O:623:ARG:HH21	2.15	0.45
24:4F:16:LYS:HB3	24:4F:16:LYS:HE2	1.45	0.45
24:4G:306:ARG:HH21	42:HI:364:PRO:CD	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:4I:9:PHE:O	25:4I:26:LEU:N	2.49	0.45
27:4R:172:LEU:HD22	27:4R:232:PHE:HZ	1.82	0.45
27:4S:157:LEU:HB3	27:4S:196:ILE:HG13	1.99	0.45
32:5L:334:GLN:O	32:5L:338:ILE:HG12	2.17	0.45
32:5O:175:LEU:HD12	32:5O:175:LEU:HA	1.70	0.45
33:5Q:39:ARG:HH12	33:5R:292:GLU:CG	2.30	0.45
33:5V:81:CYS:HB2	33:5V:226:LYS:NZ	2.32	0.45
33:5W:75:LYS:HZ1	33:5W:180:MET:N	2.15	0.45
33:5W:270:ARG:NH2	34:6B:152:ASP:OD1	2.44	0.45
34:6A:141:ASP:O	34:6A:142:SER:C	2.54	0.45
34:6A:178:LYS:HB3	34:6A:178:LYS:HE3	1.39	0.45
34:6D:389:LYS:HA	34:6D:389:LYS:HD3	1.65	0.45
34:6L:471:ASP:O	34:6L:473:CYS:N	2.45	0.45
35:6S:162:ARG:HH12	35:6S:168:VAL:H	1.65	0.45
35:6V:136:GLN:HA	35:6V:139:GLU:HB3	1.98	0.45
37:7D:27:GLY:HA2	42:SE:123:ARG:HD2	1.99	0.45
40:7N:440:LYS:HZ3	42:LI:243:ARG:HA	1.82	0.45
41:AB:12:CYS:SG	41:AB:138:SER:N	2.90	0.45
41:AB:27:GLU:HA	41:AB:359:ARG:HD3	1.99	0.45
41:AB:197:ASP:HA	41:AB:264:HIS:HB3	1.99	0.45
41:AD:283:ALA:HB2	41:KF:54:ALA:HA	1.99	0.45
41:AH:229:VAL:HG12	41:AH:233:MET:HE2	1.95	0.45
42:AI:2:ARG:H	42:AI:2:ARG:HG2	1.46	0.45
42:AK:103:TYR:CE1	42:AK:147:SER:HB2	2.52	0.45
42:AK:313:MET:HA	42:AK:344:VAL:HG22	1.98	0.45
42:AK:336:LYS:HB3	42:AK:339:ARG:NE	2.31	0.45
42:AK:348:PRO:HD2	41:AL:388:MET:HG3	1.99	0.45
41:BB:270:PHE:HD1	41:BB:366:THR:HG22	1.81	0.45
41:BD:28:HIS:HB3	41:BD:47:ILE:HD12	1.99	0.45
41:BD:163:ILE:HG22	41:BD:164:MET:H	1.80	0.45
42:BE:223:THR:HG23	42:BE:225:THR:H	1.82	0.45
41:BF:61:PRO:HG3	41:BF:84:ILE:HG13	1.98	0.45
41:BF:324:LYS:O	41:BF:328:GLU:HG2	2.17	0.45
42:BG:118:VAL:HG21	42:BG:149:PHE:HZ	1.82	0.45
42:BI:153:LEU:O	42:BI:154:MET:C	2.54	0.45
42:BI:259:LEU:HD21	42:BI:268:PRO:HB3	1.99	0.45
42:BI:273:ALA:HB1	42:BI:291:ILE:HG12	1.98	0.45
41:BJ:149:THR:CG2	41:BJ:191:GLN:HE22	2.30	0.45
42:CC:248:LEU:HB2	42:CC:355:ILE:HG12	1.98	0.45
42:CE:352:LYS:HG3	41:CF:177:ASP:O	2.17	0.45
41:CF:4:ILE:HD11	41:CF:240:LEU:HD12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:CF:215:LEU:O	41:CF:216:LYS:C	2.55	0.45
42:CG:401:LYS:O	42:CG:403:ALA:N	2.50	0.45
41:CH:167:PHE:CZ	41:CH:233:MET:HG2	2.51	0.45
41:CL:101:TRP:HB3	41:CL:398:TYR:OH	2.17	0.45
41:CL:165:ASN:HA	41:CL:198:GLU:HB3	1.98	0.45
42:CM:322:ASP:HB2	42:CM:373:ARG:NH1	2.30	0.45
41:DB:198:GLU:HB2	41:DB:266:PHE:CE2	2.48	0.45
42:DG:119:LEU:HD23	42:DG:156:ARG:HH21	1.81	0.45
42:DG:201:ALA:O	42:DG:267:PHE:HA	2.17	0.45
41:DH:262:ARG:HA	41:DH:262:ARG:HD2	1.68	0.45
41:DJ:58:LYS:HB2	41:EJ:280:GLN:HB2	1.98	0.45
41:DJ:102:ALA:O	41:DJ:105:HIS:N	2.50	0.45
42:DK:403:ALA:C	42:DK:405:VAL:H	2.21	0.45
41:DL:240:LEU:HD21	41:DL:249:ASP:HB3	1.98	0.45
42:DM:338:LYS:HE2	42:DM:341:ILE:HG13	1.98	0.45
42:EC:18:ASN:OD1	42:EC:19:ALA:N	2.50	0.45
42:EE:11:GLN:C	42:EE:13:GLY:H	2.20	0.45
42:EE:274:PRO:HG3	42:EE:374:ALA:CB	2.47	0.45
42:EI:274:PRO:HG3	42:EI:374:ALA:HA	1.99	0.45
42:EI:316:CYS:N	42:EI:378:LEU:O	2.50	0.45
42:EK:153:LEU:C	42:EK:155:GLU:H	2.20	0.45
42:EM:3:GLU:HB3	42:EM:64:ARG:NH1	2.32	0.45
42:FC:220:GLU:H	42:FC:220:GLU:HG3	1.47	0.45
42:FC:352:LYS:HZ2	42:FC:352:LYS:HG3	1.54	0.45
41:FD:42:LEU:HD22	41:FD:243:PRO:HD3	1.99	0.45
41:FD:70:PRO:O	41:FD:72:THR:N	2.50	0.45
41:FD:346:PRO:HD2	42:FE:398:MET:HG3	1.99	0.45
42:FE:195:LEU:HA	42:FE:266:HIS:HE1	1.82	0.45
42:FE:346:TRP:CE3	42:FE:347:CYS:HB2	2.52	0.45
41:FF:200:TYR:CE1	41:FF:368:ILE:HD12	2.52	0.45
41:FH:178:THR:OG1	41:FH:181:GLU:HG3	2.17	0.45
42:FK:384:ILE:O	42:FK:387:ALA:N	2.49	0.45
41:FL:347:ASN:O	41:FL:348:ASN:C	2.56	0.45
41:FL:373:ALA:HA	41:FL:375:GLN:HE21	1.81	0.45
42:FM:426:ALA:HA	42:FM:429:GLU:HG3	1.98	0.45
42:GC:68:VAL:HG21	42:GC:118:VAL:HG11	1.98	0.45
41:GD:350:LYS:HD2	42:GE:179:THR:O	2.17	0.45
42:GG:7:VAL:HG23	42:GG:66:VAL:HG13	1.98	0.45
42:GG:200:CYS:HB2	42:GG:256:GLN:HE22	1.82	0.45
41:GH:312:THR:HG23	42:GI:181:VAL:HG21	1.98	0.45
42:GK:172:TYR:CD1	42:GK:173:PRO:HD2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:GM:238:ILE:HD11	42:GM:378:LEU:HD21	1.98	0.45
41:HB:156:ARG:O	41:HB:160:PRO:HD3	2.17	0.45
41:HB:213:ARG:NH1	41:HB:297:LYS:HE2	2.31	0.45
41:HB:229:VAL:O	41:HB:233:MET:HG2	2.15	0.45
42:HC:73:THR:O	42:HC:76:ASP:N	2.38	0.45
42:HC:316:CYS:HA	42:HC:352:LYS:HB3	1.98	0.45
41:HD:152:ILE:HG21	41:HD:196:THR:HG22	1.98	0.45
41:HD:331:LEU:HB2	42:HE:177:VAL:HG13	1.99	0.45
41:HD:401:GLU:O	41:HD:402:GLY:C	2.55	0.45
42:HE:272:TYR:HD2	42:HE:275:VAL:HG22	1.81	0.45
41:HF:210:ILE:HD13	41:HF:213:ARG:HH21	1.82	0.45
42:HG:384:ILE:H	42:HG:384:ILE:HG12	1.49	0.45
41:HH:47:ILE:HG12	41:HH:51:TYR:HB2	1.98	0.45
41:HJ:36:TYR:CZ	41:HJ:38:GLY:HA3	2.52	0.45
41:HJ:101:TRP:HB2	41:HJ:105:HIS:CE1	2.51	0.45
41:HJ:251:ARG:HG3	42:HK:100:ALA:HB2	1.98	0.45
42:HM:285:GLN:O	42:HM:287:SER:N	2.49	0.45
42:IC:231:ILE:O	42:IC:235:VAL:HG23	2.17	0.45
42:IE:252:LEU:HA	42:IE:255:PHE:CD1	2.52	0.45
42:IE:422:ARG:HA	42:IE:422:ARG:HD2	1.39	0.45
41:IJ:282:ARG:NH1	41:IJ:292:GLN:OE1	2.49	0.45
41:IN:6:HIS:HA	41:IN:134:GLN:HG2	1.97	0.45
41:IN:53:GLU:OE1	41:IN:53:GLU:N	2.46	0.45
41:JF:309:ARG:HD2	41:JF:426:GLN:HA	1.98	0.45
42:JG:51:THR:HG21	42:JG:243:ARG:HG2	1.98	0.45
42:JG:312:TYR:HE2	42:JG:341:ILE:HG23	1.82	0.45
42:JI:377:MET:H	42:JI:377:MET:HG2	1.50	0.45
41:JL:7:LEU:HG	41:JL:64:VAL:HG13	1.98	0.45
42:JM:223:THR:OG1	42:JM:224:TYR:N	2.50	0.45
41:KJ:255:VAL:HG11	42:KK:100:ALA:O	2.17	0.45
42:KM:55:GLU:HG3	42:KM:57:GLY:H	1.81	0.45
42:KM:315:CYS:HB3	42:KM:377:MET:HE1	1.97	0.45
41:KN:117:LEU:HD11	41:KN:154:LYS:HB3	1.99	0.45
42:LC:156:ARG:HD2	42:LC:156:ARG:HA	1.79	0.45
42:LC:213:CYS:HA	42:LC:217:LEU:HB2	1.98	0.45
42:LC:394:LYS:HD2	42:LC:394:LYS:HA	1.85	0.45
42:LG:402:ARG:HA	42:LG:402:ARG:HD3	1.75	0.45
41:LJ:198:GLU:OE2	41:LJ:254:ALA:HB2	2.17	0.45
41:LL:198:GLU:HB3	41:LL:266:PHE:HE2	1.81	0.45
42:MC:167:LEU:HD22	42:MC:200:CYS:HB2	1.98	0.45
41:MF:8:GLN:HG3	41:MF:65:LEU:HA	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:MG:1:MET:SD	42:MG:2:ARG:N	2.82	0.45
42:MI:348:PRO:HG3	41:MJ:384:GLN:HB2	1.98	0.45
42:MI:367:ASP:OD1	42:MI:368:LEU:N	2.50	0.45
42:MM:405:VAL:HG23	42:MM:418:PHE:CE2	2.49	0.45
42:NC:333:ALA:O	42:NC:334:THR:C	2.56	0.45
41:NH:139:LEU:HD12	41:NH:139:LEU:HA	1.89	0.45
42:NI:250:VAL:CG1	42:NI:254:GLU:HB2	2.47	0.45
42:NK:140:SER:O	42:NK:141:PHE:C	2.54	0.45
42:OA:133:GLN:HB3	42:OA:252:LEU:HD23	1.99	0.45
42:OC:3:GLU:O	42:OC:133:GLN:N	2.49	0.45
42:OC:255:PHE:CE1	42:OC:318:LEU:HD11	2.52	0.45
41:OF:154:LYS:HE2	41:OF:154:LYS:HB2	1.74	0.45
42:OI:269:LEU:HB2	42:OI:379:SER:HB3	1.97	0.45
41:OJ:385:PHE:HZ	41:OJ:408:PHE:HB3	1.82	0.45
42:PA:17:GLY:O	42:PA:21:TRP:N	2.44	0.45
42:PA:25:CYS:SG	42:PA:26:LEU:N	2.90	0.45
42:PC:259:LEU:HA	42:PC:314:ALA:CB	2.47	0.45
41:PD:165:ASN:HA	41:PD:198:GLU:HB2	1.99	0.45
41:PD:338:SER:O	41:PD:339:SER:C	2.55	0.45
42:PE:131:GLY:O	42:PE:132:LEU:C	2.53	0.45
41:PF:116:VAL:HG21	41:PF:151:LEU:HD13	1.99	0.45
42:PG:265:ILE:HG23	42:PG:432:TYR:CZ	2.52	0.45
42:PG:265:ILE:HD11	42:PG:431:ASP:HB3	1.99	0.45
42:PG:267:PHE:CD2	42:PG:388:TRP:HH2	2.35	0.45
41:PH:55:THR:O	41:PH:56:GLY:C	2.54	0.45
42:PI:187:SER:O	42:PI:188:ILE:C	2.54	0.45
42:PI:248:LEU:O	42:PI:355:ILE:N	2.39	0.45
41:PJ:146:GLY:O	41:PJ:148:GLY:N	2.49	0.45
41:PJ:265:PHE:CB	41:PJ:374:ILE:HG21	2.47	0.45
41:PL:304:ASP:OD1	41:PL:304:ASP:N	2.49	0.45
41:QB:142:GLY:O	41:QB:145:SER:N	2.48	0.45
41:QB:189:VAL:HG21	41:QB:415:MET:HG3	1.98	0.45
41:QD:138:SER:HA	41:QD:169:VAL:HG22	1.99	0.45
41:QD:306:ARG:NH1	41:QD:340:TYR:OH	2.50	0.45
41:QF:257:MET:HB3	41:QF:266:PHE:CE2	2.52	0.45
42:QI:88:HIS:HB3	42:QI:91:GLN:HB2	1.98	0.45
42:QI:188:ILE:HD11	42:QI:422:ARG:HA	1.99	0.45
42:QI:253:THR:OG1	42:QI:254:GLU:N	2.50	0.45
41:QJ:81:PHE:HB3	41:QJ:84:ILE:HD11	1.99	0.45
41:QL:271:ALA:H	41:QL:272:PRO:HD2	1.81	0.45
41:QL:282:ARG:HD3	41:QL:282:ARG:HA	1.54	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:RB:30:ILE:HB	41:RB:34:GLY:HA2	1.97	0.45
41:RB:100:ASN:HA	41:RB:398:TYR:HE1	1.81	0.45
42:RI:28:HIS:CE1	42:RI:49:PHE:HA	2.52	0.45
41:RJ:15:GLN:C	41:RJ:226:ASN:HD21	2.19	0.45
41:RJ:136:THR:HG21	41:RJ:233:MET:CE	2.47	0.45
42:RK:338:LYS:HB3	42:RK:341:ILE:HG12	1.97	0.45
41:RL:200:TYR:HE1	41:RL:266:PHE:HD2	1.64	0.45
42:SC:242:LEU:HD21	42:SC:251:ASP:HA	1.98	0.45
42:SE:214:ARG:HA	42:SE:214:ARG:HD2	1.46	0.45
42:SG:87:PHE:HB3	42:SG:92:LEU:HD21	1.99	0.45
42:SG:288:VAL:HG13	42:SG:319:TYR:HE2	1.80	0.45
41:SH:132:GLY:HA2	41:SH:162:ARG:HB3	1.99	0.45
42:SI:103:TYR:H	42:SI:186:ASN:HD22	1.63	0.45
42:SI:396:ASP:OD1	42:SI:396:ASP:N	2.50	0.45
42:SM:138:PHE:HZ	42:SM:235:VAL:HG11	1.81	0.45
41:TD:305:PRO:HB2	41:TD:310:TYR:CE1	2.52	0.45
41:TD:387:ALA:HB1	41:TD:390:ARG:HH21	1.82	0.45
42:TE:31:GLN:OE1	42:TE:35:GLN:HB2	2.17	0.45
42:TG:8:HIS:ND1	42:TG:13:GLY:O	2.50	0.45
41:TH:384:GLN:O	41:TH:388:MET:HG3	2.17	0.45
42:TI:217:LEU:HD23	42:TI:219:ILE:HD11	1.98	0.45
42:TI:289:ALA:C	42:TI:291:ILE:H	2.20	0.45
42:TI:317:LEU:HB3	42:TI:319:TYR:HE1	1.82	0.45
42:TK:93:ILE:HD13	42:TK:117:LEU:HG	1.98	0.45
42:TM:312:TYR:HB2	42:TM:343:PHE:HA	1.99	0.45
42:UC:206:ASN:O	42:UC:207:GLU:C	2.55	0.45
42:UC:402:ARG:HD3	42:UC:402:ARG:HA	1.77	0.45
41:UD:202:ILE:HG23	41:UD:300:MET:HB3	1.99	0.45
41:UD:215:LEU:O	41:UD:216:LYS:C	2.54	0.45
42:UE:286:LEU:O	42:UE:373:ARG:NH2	2.47	0.45
41:UF:375:GLN:HG2	41:UF:423:GLN:HE21	1.82	0.45
42:UG:169:PHE:HE2	42:UG:235:VAL:HG13	1.81	0.45
42:UG:257:THR:HA	41:UH:397:TRP:CZ3	2.52	0.45
41:UL:133:PHE:HB2	41:UL:164:MET:SD	2.57	0.45
41:UL:135:LEU:HD23	41:UL:152:ILE:HD11	1.99	0.45
42:UM:3:GLU:OE1	42:UM:3:GLU:N	2.50	0.45
41:VD:149:THR:HA	41:VD:152:ILE:HD12	1.99	0.45
41:VF:138:SER:HA	41:VF:169:VAL:HB	1.99	0.45
42:VG:216:ASN:HB3	42:VG:275:VAL:O	2.16	0.45
41:VH:202:ILE:HG21	41:VH:229:VAL:HG22	1.99	0.45
42:VK:91:GLN:HG2	42:VK:121:ARG:NH2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:VL:263:LEU:HD11	41:VL:421:GLU:HG2	1.99	0.45
41:WF:138:SER:O	41:WF:140:GLY:N	2.50	0.45
41:WH:6:HIS:HD2	41:WH:21:TRP:HE1	1.64	0.45
41:WH:186:THR:HG23	41:WH:381:ILE:HG22	1.99	0.45
42:WK:313:MET:HE2	42:WK:346:TRP:HZ2	1.81	0.45
4:1L:23:TYR:HE1	42:JM:285:GLN:HE22	1.64	0.45
9:2D:310:LYS:CE	42:IE:285:GLN:HB3	2.47	0.45
15:3A:151:CYS:O	41:JL:356:ILE:HD12	2.16	0.45
19:3L:170:ARG:HH11	19:3L:204:PRO:HD3	1.81	0.45
20:3N:14:PHE:HA	41:KD:70:PRO:HD2	1.98	0.45
20:3O:222:TRP:HB2	20:3O:337:VAL:HG12	1.99	0.45
22:3Y:32:GLY:C	42:CE:219:ILE:HD11	2.38	0.45
26:4L:265:LEU:HA	26:4L:268:VAL:HG22	1.98	0.45
27:4R:39:SER:HB2	27:4R:53:VAL:HA	1.98	0.45
27:4R:157:LEU:HB3	27:4R:196:ILE:HG21	1.99	0.45
29:4Y:28:VAL:HB	41:GF:26:ASP:HB3	1.98	0.45
31:5E:139:VAL:O	31:5E:143:PRO:HD2	2.17	0.45
32:5M:201:SER:HA	32:5M:204:VAL:HG22	1.98	0.45
32:5N:375:GLU:O	32:5N:379:LYS:HG2	2.17	0.45
32:5O:102:LEU:HD13	32:5O:102:LEU:HA	1.74	0.45
33:5W:40:GLN:O	33:5W:44:VAL:N	2.46	0.45
33:5X:413:ARG:HG2	33:5X:417:ARG:HH12	1.82	0.45
34:6A:302:LYS:HD3	34:6A:302:LYS:HA	1.61	0.45
34:6C:261:LYS:HA	34:6C:261:LYS:HD3	1.42	0.45
34:6G:435:GLN:HG3	34:6G:439:ARG:HH21	1.82	0.45
34:6K:167:MET:O	34:6K:171:THR:N	2.46	0.45
34:6M:145:ASN:HB2	34:6N:419:ARG:HE	1.81	0.45
34:6M:340:PHE:O	34:6M:343:VAL:HG12	2.17	0.45
35:6P:238:VAL:HB	35:6Q:351:LYS:HB3	1.98	0.45
35:6R:54:ASP:OD2	35:6R:55:GLU:N	2.50	0.45
35:6R:262:GLN:HE21	35:6R:262:GLN:HB3	1.61	0.45
35:6U:326:LEU:HD13	35:6U:409:ARG:HH11	1.81	0.45
35:6V:307:ARG:HE	35:6V:311:LEU:HD11	1.82	0.45
35:6V:421:ASN:O	35:6V:425:ILE:HG12	2.17	0.45
38:7I:265:LEU:HG	38:7I:266:CYS:H	1.82	0.45
41:AB:52:ASN:OD1	41:AB:62:ARG:NH1	2.50	0.45
41:AH:3:GLU:HG2	41:AH:127:CYS:HB3	1.98	0.45
41:AH:252:LYS:HE3	41:AH:252:LYS:HB2	1.71	0.45
41:AL:107:THR:HB	41:AL:108:GLU:H	1.66	0.45
42:BC:75:ILE:O	42:BC:79:ARG:N	2.44	0.45
42:BC:352:LYS:HG3	41:BD:177:ASP:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BC:439:SER:HB3	41:BD:391:ARG:HD3	1.99	0.45
41:BD:189:VAL:HG11	41:BD:415:MET:HG2	1.99	0.45
42:BE:98:ASP:OD1	42:BE:100:ALA:N	2.34	0.45
42:BE:324:VAL:HG21	41:BF:219:THR:HB	1.98	0.45
42:CC:259:LEU:HA	42:CC:259:LEU:HD13	1.87	0.45
41:CD:379:LYS:HE2	41:CD:379:LYS:HB2	1.52	0.45
41:CF:122:LYS:HB2	41:CF:122:LYS:HE3	1.63	0.45
42:CG:121:ARG:HD2	42:CG:121:ARG:HA	1.41	0.45
42:CI:320:ARG:HB3	42:CI:374:ALA:HB3	1.97	0.45
41:CJ:345:ILE:O	41:CJ:346:PRO:C	2.56	0.45
41:CL:149:THR:HG23	41:CL:191:GLN:HG2	1.99	0.45
42:DC:147:SER:HG	42:DC:190:THR:HG1	1.59	0.45
41:DD:312:THR:HG22	41:DD:370:ASN:ND2	2.32	0.45
42:DG:119:LEU:HA	42:DG:119:LEU:HD12	1.81	0.45
42:DG:213:CYS:SG	42:DG:222:PRO:HG2	2.57	0.45
41:DH:250:LEU:HD23	41:DH:250:LEU:HA	1.68	0.45
41:DJ:290:THR:OG1	41:DJ:291:GLN:N	2.50	0.45
41:DJ:313:VAL:HG23	41:DJ:349:VAL:HG22	1.99	0.45
42:DK:88:HIS:HA	42:EK:283:HIS:CD2	2.51	0.45
42:DK:303:VAL:O	42:DK:304:LYS:C	2.56	0.45
42:DM:240:ALA:O	42:DM:244:PHE:N	2.42	0.45
42:EC:7:VAL:HG23	42:EC:66:VAL:HB	1.98	0.45
41:ED:290:THR:HG22	41:ED:317:PHE:CZ	2.52	0.45
41:ED:389:PHE:CD1	41:ED:392:LYS:HE2	2.52	0.45
42:EI:121:ARG:HA	42:EI:121:ARG:HD2	1.77	0.45
42:EI:140:SER:HA	42:EI:171:ILE:H	1.82	0.45
42:EI:161:TYR:CE2	42:EI:166:LYS:HE2	2.52	0.45
41:EJ:11:GLN:O	41:EJ:15:GLN:NE2	2.50	0.45
41:EL:276:ARG:HA	41:EL:276:ARG:HD3	1.36	0.45
42:FC:276:ILE:HD12	42:FC:276:ILE:HA	1.85	0.45
41:FF:314:ALA:HB2	41:FF:350:LYS:HE2	1.98	0.45
42:FI:100:ALA:H	42:FI:105:ARG:CZ	2.30	0.45
42:FI:208:ALA:O	42:FI:212:ILE:HG12	2.17	0.45
42:FK:72:PRO:O	42:FK:73:THR:C	2.55	0.45
42:FK:158:SER:HB3	42:FK:164:LYS:HD2	1.99	0.45
42:FK:280:LYS:HE3	42:FK:280:LYS:HB3	1.38	0.45
42:GC:172:TYR:HE2	42:GC:203:MET:HA	1.81	0.45
42:GC:264:ARG:HH12	42:GC:428:LEU:HD11	1.82	0.45
41:GD:150:LEU:HD22	41:GD:154:LYS:HZ1	1.82	0.45
41:GH:313:VAL:HB	41:GH:349:VAL:HG22	1.98	0.45
41:GJ:139:LEU:O	41:GJ:145:SER:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:GL:61:PRO:HD3	41:GL:84:ILE:HG12	1.99	0.45
42:HC:391:LEU:HA	42:HC:394:LYS:HE2	1.97	0.45
41:HD:396:HIS:HB2	41:HD:397:TRP:CE3	2.52	0.45
42:HE:81:GLY:O	42:HE:84:ARG:NH1	2.50	0.45
41:HH:224:ASP:HA	41:HH:227:HIS:CD2	2.51	0.45
42:HI:262:TYR:HB2	42:HI:265:ILE:CD1	2.45	0.45
41:HJ:213:ARG:HD2	41:HJ:297:LYS:HG3	1.99	0.45
41:HJ:418:LEU:HD22	41:HJ:418:LEU:HA	1.71	0.45
41:ID:86:ARG:HA	42:JC:283:HIS:CE1	2.52	0.45
42:IE:391:LEU:HD12	42:IE:391:LEU:HA	1.75	0.45
41:IJ:293:MET:HG3	41:IJ:367:PHE:HB2	1.98	0.45
42:IK:262:TYR:HB2	42:IK:265:ILE:HD13	1.98	0.45
41:IL:133:PHE:HB2	41:IL:164:MET:SD	2.56	0.45
41:IL:135:LEU:HD11	41:IL:152:ILE:HD11	1.99	0.45
42:JI:28:HIS:CE1	42:JI:49:PHE:HA	2.52	0.45
41:KD:107:THR:OG1	41:KD:108:GLU:OE1	2.32	0.45
42:KE:262:TYR:CD2	42:KE:265:ILE:HD12	2.51	0.45
42:KG:206:ASN:ND2	45:KG:501:GTP:O2'	2.50	0.45
41:KH:63:ALA:O	41:KH:89:ASN:ND2	2.41	0.45
41:KJ:111:GLU:HG3	41:KJ:112:LEU:HD12	1.99	0.45
42:KM:132:LEU:HD12	42:KM:132:LEU:HA	1.83	0.45
41:LD:24:ILE:HG22	41:LD:51:TYR:HE1	1.82	0.45
41:LD:70:PRO:HB2	41:LD:74:ASP:OD1	2.17	0.45
41:LD:395:LEU:HD21	41:LD:405:GLU:HG3	1.99	0.45
41:LH:350:LYS:HB3	41:LH:350:LYS:HE3	1.83	0.45
42:MG:115:ILE:HD13	42:MG:152:LEU:HG	1.98	0.45
41:MJ:31:ASP:OD1	41:MJ:35:THR:N	2.46	0.45
41:ML:180:VAL:HG21	41:ML:398:TYR:OH	2.17	0.45
41:ML:324:LYS:HB2	42:MM:222:PRO:HD2	1.99	0.45
42:MM:317:LEU:HG	42:MM:353:VAL:HG12	1.98	0.45
42:NA:163:LYS:O	42:NA:164:LYS:C	2.55	0.45
42:NA:264:ARG:HH21	42:NA:428:LEU:HB2	1.82	0.45
42:NC:75:ILE:HA	42:NC:78:VAL:HG23	1.99	0.45
42:NC:174:ALA:HB1	42:NC:175:PRO:HD2	1.99	0.45
42:NC:258:ASN:HD21	41:ND:99:ASN:HD22	1.65	0.45
41:ND:152:ILE:HD12	41:ND:196:THR:HG22	1.99	0.45
41:ND:152:ILE:HG21	41:ND:196:THR:HG22	1.98	0.45
42:NE:172:TYR:OH	42:NE:387:ALA:O	2.34	0.45
41:NF:289:LEU:HD21	41:NF:317:PHE:HE1	1.82	0.45
41:NF:324:LYS:HB3	42:NG:222:PRO:HD2	1.98	0.45
42:NI:288:VAL:HA	42:NI:291:ILE:HG22	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:NI:432:TYR:HA	42:NI:435:VAL:HG22	1.98	0.45
42:NK:437:MET:O	41:NL:391:ARG:NH2	2.50	0.45
41:OB:47:ILE:HD12	41:OB:59:TYR:CZ	2.52	0.45
41:OB:297:LYS:HA	41:OB:297:LYS:HD3	1.50	0.45
41:OD:141:GLY:C	41:OD:184:ASN:HD21	2.19	0.45
41:OJ:361:LEU:H	41:OJ:361:LEU:HG	1.42	0.45
42:PA:125:LEU:HA	42:PA:128:GLN:HG2	1.99	0.45
42:PA:167:LEU:HD22	42:PA:255:PHE:CE2	2.52	0.45
42:PA:212:ILE:HD13	42:PA:212:ILE:HA	1.74	0.45
41:PB:347:ASN:CB	42:PC:181:VAL:HA	2.37	0.45
42:PE:213:CYS:O	42:PE:219:ILE:HG13	2.17	0.45
42:PE:261:PRO:HB2	42:PE:262:TYR:H	1.45	0.45
42:PG:335:ILE:HG23	42:PG:341:ILE:HD13	1.99	0.45
41:PH:53:GLU:HA	41:PH:59:TYR:HD1	1.82	0.45
41:PH:328:GLU:O	41:PH:331:LEU:N	2.50	0.45
41:PJ:112:LEU:O	41:PJ:115:SER:N	2.49	0.45
41:PJ:186:THR:OG1	41:PJ:187:LEU:N	2.50	0.45
42:PK:430:LYS:HE3	42:PK:430:LYS:HB3	1.70	0.45
41:QB:313:VAL:N	41:QB:348:ASN:O	2.50	0.45
41:QB:394:PHE:HB3	41:QB:395:LEU:H	1.62	0.45
42:QC:107:HIS:HA	42:QC:152:LEU:HD22	1.98	0.45
41:QD:178:THR:HB	41:QD:181:GLU:HB3	1.98	0.45
42:QG:322:ASP:O	42:QG:373:ARG:NH1	2.50	0.45
41:QH:189:VAL:HG12	41:QH:418:LEU:HD21	1.99	0.45
41:QH:292:GLN:HB3	41:QH:298:ASN:HD22	1.81	0.45
42:QK:304:LYS:HD2	42:QK:304:LYS:HA	1.82	0.45
41:QL:312:THR:OG1	41:QL:313:VAL:N	2.50	0.45
41:RB:253:LEU:HD21	41:RB:368:ILE:HD13	1.99	0.45
41:RD:12:CYS:HA	41:RD:15:GLN:HE21	1.82	0.45
42:RE:200:CYS:HB2	42:RE:256:GLN:HE22	1.81	0.45
41:RF:260:PHE:O	41:RF:262:ARG:N	2.50	0.45
41:RF:358:PRO:O	41:RF:359:ARG:C	2.55	0.45
42:RG:21:TRP:HZ3	42:RG:63:PRO:CB	2.28	0.45
42:RI:224:TYR:CD1	42:RI:227:LEU:HD12	2.51	0.45
41:RL:40:SER:HB3	41:RL:43:GLN:HG3	1.99	0.45
41:RL:202:ILE:HG13	41:RL:229:VAL:HG23	1.99	0.45
42:SC:188:ILE:HG12	42:SC:422:ARG:HH21	1.82	0.45
41:SF:25:SER:HA	41:SF:30:ILE:HD13	1.99	0.45
41:SF:211:CYS:HB3	41:SF:220:PRO:HB3	1.98	0.45
41:SF:276:ARG:H	41:SF:276:ARG:HG2	1.61	0.45
41:SF:391:ARG:O	41:SF:392:LYS:C	2.54	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:SH:263:LEU:HD21	41:SH:421:GLU:HG2	1.99	0.45
42:SI:29:GLY:O	42:SI:30:ILE:C	2.56	0.45
42:SI:239:THR:O	42:SI:240:ALA:C	2.55	0.45
42:SI:297:GLU:HG2	42:SI:298:PRO:HD2	1.99	0.45
42:SK:195:LEU:HD12	42:SK:266:HIS:CE1	2.52	0.45
41:SL:130:LEU:O	41:SL:131:GLN:C	2.55	0.45
41:TD:117:LEU:O	41:TD:121:ARG:N	2.41	0.45
41:TD:330:MET:CE	41:TD:349:VAL:HB	2.47	0.45
41:TF:257:MET:HE1	41:TF:314:ALA:HB2	1.98	0.45
42:TG:286:LEU:O	42:TG:373:ARG:NE	2.50	0.45
41:TH:14:ASN:ND2	41:TH:67:ASP:OD2	2.40	0.45
41:TH:46:ARG:HA	41:TH:46:ARG:HD3	1.84	0.45
42:TI:326:LYS:HD2	41:TJ:220:PRO:HD2	1.98	0.45
41:TJ:296:ALA:HA	41:TJ:299:MET:HG2	1.97	0.45
42:TK:259:LEU:HD21	42:TK:268:PRO:HG3	1.98	0.45
42:TK:274:PRO:HB2	42:TK:371:VAL:HG11	2.00	0.45
41:TL:58:LYS:HE3	41:TL:58:LYS:HB3	1.77	0.45
41:TL:322:SER:OG	41:TL:324:LYS:HE3	2.17	0.45
41:TL:375:GLN:NE2	41:TL:419:VAL:HA	2.32	0.45
42:TM:8:HIS:CE1	42:TM:17:GLY:HA3	2.52	0.45
42:UC:250:VAL:HG21	42:UC:318:LEU:HD22	1.99	0.45
42:UE:105:ARG:HE	42:UE:110:ILE:HD12	1.81	0.45
41:UF:221:THR:O	41:UF:225:LEU:HD13	2.17	0.45
41:UH:354:CYS:SG	41:UH:355:ASP:N	2.90	0.45
42:UI:1:MET:HG2	42:UI:130:THR:HB	1.98	0.45
42:UI:139:HIS:CD2	42:UI:150:THR:HG21	2.52	0.45
41:UL:316:VAL:HG23	41:UL:366:THR:HB	1.99	0.45
42:UM:319:TYR:HB3	42:UM:323:VAL:HG21	1.99	0.45
42:VC:9:VAL:HG21	42:VC:150:THR:HB	1.99	0.45
41:VF:351:THR:HG22	42:VG:179:THR:HA	1.98	0.45
42:VG:105:ARG:HB3	42:VG:110:ILE:HG22	1.99	0.45
41:VH:87:PRO:HA	41:VH:90:PHE:HD2	1.82	0.45
41:VH:167:PHE:HE1	41:VH:233:MET:HG2	1.79	0.45
41:VH:344:TRP:CE3	42:VI:401:LYS:HD2	2.52	0.45
42:VI:198:SER:HB2	42:VI:266:HIS:HE2	1.81	0.45
41:VJ:68:LEU:HD13	41:VJ:68:LEU:HA	1.84	0.45
42:VK:31:GLN:H	42:VK:31:GLN:HG3	1.55	0.45
42:VK:279:GLU:O	42:VK:283:HIS:NE2	2.50	0.45
41:WD:304:ASP:N	41:WD:304:ASP:OD1	2.50	0.45
42:WE:276:ILE:HG13	42:WE:286:LEU:HD21	1.99	0.45
42:WE:313:MET:HE2	42:WE:346:TRP:HH2	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:WF:143:THR:HB	41:WF:147:MET:HE2	1.97	0.45
41:WH:66:VAL:HG22	41:WH:147:MET:HE1	1.98	0.45
19:3K:29:GLN:H	42:LG:47:ASP:HB2	1.82	0.44
19:3L:512:VAL:O	19:3L:516:MET:N	2.47	0.44
20:3Q:627:MET:HB3	20:3Q:647:LEU:HD22	1.99	0.44
23:4D:41:PRO:HG3	23:4D:70:LEU:HD23	1.98	0.44
25:4J:118:PHE:CD1	25:4J:163:ILE:HG23	2.53	0.44
27:4T:45:LYS:HA	41:KN:121:ARG:HD3	1.99	0.44
30:5A:247:LEU:O	30:5A:253:SER:OG	2.34	0.44
31:5G:97:LEU:HA	31:5G:100:LYS:HB3	1.98	0.44
31:5G:127:SER:HB2	42:PI:283:HIS:NE2	2.32	0.44
31:5G:128:CYS:CB	42:PI:279:GLU:HB3	2.46	0.44
31:5J:127:SER:HA	42:OA:85:GLN:HA	1.98	0.44
33:5R:268:ARG:HD2	33:5R:268:ARG:HA	1.71	0.44
33:5S:165:LEU:HD22	33:5S:232:GLU:CD	2.37	0.44
33:5W:88:GLU:OE2	33:5W:240:ARG:NH1	2.46	0.44
34:6B:218:GLU:OE2	34:6B:342:LYS:NZ	2.40	0.44
34:6E:427:VAL:O	34:6E:431:ILE:HG13	2.17	0.44
34:6F:374:GLN:HG3	34:6G:121:ARG:HH11	1.82	0.44
34:6H:234:LYS:NZ	34:6I:68:TYR:HD2	2.14	0.44
34:6H:291:ASP:HB3	34:6L:67:PRO:CB	2.46	0.44
34:6J:94:TYR:CE1	34:6K:208:ILE:HG13	2.52	0.44
35:6U:52:LEU:HB2	35:6U:55:GLU:HG3	1.99	0.44
37:7C:226:VAL:O	37:7C:228:MET:N	2.49	0.44
41:AD:27:GLU:OE1	41:AD:241:ARG:NH2	2.50	0.44
41:AH:156:ARG:HD2	41:AH:195:ASN:HA	1.98	0.44
42:AI:231:ILE:O	42:AI:235:VAL:HG23	2.17	0.44
41:AJ:12:CYS:HB2	43:AJ:501:GDP:H5''	1.99	0.44
42:AK:174:ALA:HA	42:AK:205:ASP:OD1	2.17	0.44
42:AK:265:ILE:HG23	42:AK:432:TYR:CZ	2.52	0.44
41:BD:57:GLY:O	41:BD:58:LYS:C	2.55	0.44
41:BD:271:ALA:HB3	41:BD:272:PRO:CD	2.45	0.44
41:BH:174:LYS:CG	41:BH:175:VAL:H	2.30	0.44
41:BH:313:VAL:HB	41:BH:349:VAL:HG22	1.98	0.44
42:BI:217:LEU:HD23	42:BI:217:LEU:HA	1.86	0.44
41:BL:211:CYS:HA	41:BL:215:LEU:HD12	1.97	0.44
41:CB:324:LYS:CB	42:CC:222:PRO:HD2	2.46	0.44
42:CC:12:ALA:O	42:CC:13:GLY:C	2.56	0.44
42:CC:136:LEU:CD2	42:CC:167:LEU:HB2	2.47	0.44
42:CE:88:HIS:HB3	42:CE:91:GLN:HB2	1.99	0.44
41:CH:145:SER:O	41:CH:188:SER:OG	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CM:238:ILE:HG13	42:CM:239:THR:HG23	1.98	0.44
41:DB:258:VAL:HB	41:DB:266:PHE:HZ	1.81	0.44
41:DH:139:LEU:HB2	41:DH:171:PRO:CD	2.47	0.44
41:DH:229:VAL:CG2	41:DH:300:MET:HG3	2.47	0.44
41:DH:290:THR:C	41:DH:292:GLN:H	2.19	0.44
41:DH:330:MET:N	41:DH:330:MET:SD	2.90	0.44
41:DH:375:GLN:H	41:DH:375:GLN:HG3	1.64	0.44
42:DK:322:ASP:C	42:DK:324:VAL:H	2.21	0.44
41:DL:21:TRP:CE3	41:DL:24:ILE:HD11	2.53	0.44
42:DM:172:TYR:CD2	42:DM:173:PRO:HD2	2.52	0.44
41:ED:169:VAL:HG22	41:ED:202:ILE:HD11	1.99	0.44
41:ED:193:VAL:HA	41:ED:196:THR:HG23	1.98	0.44
42:EE:51:THR:CG2	42:EE:243:ARG:HB3	2.47	0.44
42:EE:274:PRO:HG3	42:EE:374:ALA:CA	2.44	0.44
42:EG:194:THR:O	42:EG:266:HIS:NE2	2.50	0.44
42:EG:276:ILE:HG13	42:EG:286:LEU:HD11	1.99	0.44
42:EG:307:PRO:HB3	42:EG:381:THR:HG21	1.98	0.44
42:EI:385:ALA:HB2	42:EI:432:TYR:HB3	1.99	0.44
41:EL:286:VAL:HG13	41:EL:321:MET:CE	2.47	0.44
42:EM:404:PHE:HA	42:EM:406:HIS:CE1	2.52	0.44
42:FC:151:SER:C	42:FC:153:LEU:N	2.69	0.44
41:FD:232:THR:HG23	41:FD:366:THR:HG23	1.99	0.44
41:FD:343:GLU:H	41:FD:343:GLU:HG2	1.49	0.44
41:FD:375:GLN:O	41:FD:376:GLU:C	2.56	0.44
42:FG:248:LEU:H	42:FG:355:ILE:HB	1.82	0.44
42:FG:323:VAL:HG23	42:FG:355:ILE:HG23	1.98	0.44
42:FI:62:VAL:HA	42:FI:88:HIS:HE1	1.81	0.44
42:FI:88:HIS:HB2	42:FI:91:GLN:HE22	1.82	0.44
42:FK:437:MET:O	42:FK:438:ASP:C	2.55	0.44
41:FL:86:ARG:HG3	41:FL:87:PRO:HD2	2.00	0.44
41:FL:319:GLY:O	41:FL:355:ASP:HA	2.17	0.44
41:GD:347:ASN:HD21	42:GE:184:PRO:HD3	1.82	0.44
41:GD:373:ALA:HA	41:GD:375:GLN:HE21	1.81	0.44
41:GF:267:MET:N	41:GF:369:GLY:O	2.38	0.44
42:GK:251:ASP:H	42:GK:254:GLU:HG3	1.82	0.44
42:HC:32:PRO:HA	42:HC:83:TYR:CD2	2.52	0.44
41:HD:68:LEU:HD23	41:HD:97:ALA:HB2	1.99	0.44
41:HD:255:VAL:HG13	42:HE:407:TRP:CE3	2.52	0.44
41:HD:299:MET:C	41:HD:301:ALA:H	2.21	0.44
41:HF:171:PRO:HB3	41:HF:181:GLU:OE1	2.17	0.44
41:HF:286:VAL:HG22	41:HF:363:MET:SD	2.57	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:HF:358:PRO:HG2	41:HF:361:LEU:HB3	1.99	0.44
42:HG:104:ALA:HA	42:HG:108:TYR:HD1	1.81	0.44
41:HH:21:TRP:NE1	41:HH:63:ALA:HB2	2.32	0.44
42:HI:137:ILE:HD13	42:HI:154:MET:SD	2.57	0.44
42:HI:139:HIS:CE1	42:HI:168:GLU:HG3	2.51	0.44
42:HK:107:HIS:HA	42:HK:152:LEU:HD22	1.99	0.44
42:HM:326:LYS:HB3	42:HM:326:LYS:HE2	1.33	0.44
41:ID:169:VAL:HA	41:ID:202:ILE:HB	1.98	0.44
41:IF:1:MET:HA	41:IF:48:ASN:HD21	1.82	0.44
41:IH:263:LEU:HG	41:IH:422:TYR:HE1	1.82	0.44
41:IH:317:PHE:HB2	41:IH:353:VAL:HG12	1.98	0.44
42:II:396:ASP:HB3	42:II:422:ARG:NH1	2.32	0.44
42:IK:3:GLU:OE2	42:IK:130:THR:N	2.50	0.44
42:IM:27:GLU:OE1	42:IM:243:ARG:NH1	2.38	0.44
41:IN:202:ILE:HG23	41:IN:268:PRO:HG3	1.99	0.44
41:IN:310:TYR:HB3	41:IN:341:PHE:HD1	1.82	0.44
42:JC:69:ASP:OD2	42:JC:70:LEU:N	2.50	0.44
42:JC:201:ALA:HB3	42:JC:267:PHE:HD1	1.82	0.44
42:JC:265:ILE:O	42:JC:267:PHE:N	2.49	0.44
42:JC:274:PRO:HG3	42:JC:374:ALA:HA	1.99	0.44
41:JD:323:MET:CG	42:JE:224:TYR:HE2	2.28	0.44
41:JJ:166:THR:HG22	41:JJ:196:THR:HG21	1.98	0.44
42:JM:21:TRP:CZ2	42:JM:65:ALA:HB2	2.52	0.44
42:KG:396:ASP:OD2	42:KG:422:ARG:NH1	2.50	0.44
42:KI:241:SER:OG	42:KI:250:VAL:N	2.47	0.44
41:KN:31:ASP:OD1	41:KN:35:THR:OG1	2.35	0.44
41:LD:44:LEU:HD12	41:LD:44:LEU:HA	1.73	0.44
41:LD:336:LYS:HB2	41:LD:336:LYS:HE3	1.72	0.44
42:LE:140:SER:OG	45:LE:501:GTP:O2A	2.35	0.44
41:LF:298:ASN:O	41:LF:298:ASN:ND2	2.25	0.44
41:LH:162:ARG:NH1	42:LI:97:GLU:OE1	2.42	0.44
41:LN:391:ARG:HE	41:LN:391:ARG:HB3	1.63	0.44
41:MD:204:ASN:OD1	43:MD:501:GDP:N2	2.43	0.44
41:MD:215:LEU:O	41:MD:216:LYS:C	2.56	0.44
41:MF:162:ARG:H	41:MF:162:ARG:HG2	1.34	0.44
42:MK:182:VAL:HG22	42:MK:185:TYR:HB2	1.98	0.44
42:MK:260:VAL:HA	42:MK:261:PRO:HD3	1.85	0.44
41:ML:46:ARG:NH2	42:MM:76:ASP:OD2	2.50	0.44
41:ML:206:ALA:HB1	41:ML:300:MET:HA	1.98	0.44
42:MM:195:LEU:HD21	42:MM:264:ARG:HD3	1.99	0.44
41:MN:374:ILE:H	41:MN:374:ILE:HG13	1.38	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:NA:122:ILE:HD12	42:NA:157:LEU:HD21	1.99	0.44
41:NB:300:MET:H	41:NB:300:MET:HG2	1.32	0.44
41:ND:112:LEU:HD23	41:ND:112:LEU:HA	1.76	0.44
42:NE:93:ILE:HD12	42:NE:118:VAL:HG22	1.99	0.44
42:NG:62:VAL:HG11	42:NG:88:HIS:CD2	2.52	0.44
41:NH:57:GLY:O	41:NH:58:LYS:C	2.55	0.44
41:NJ:232:THR:HG21	41:NJ:268:PRO:HB3	1.99	0.44
41:OB:31:ASP:O	41:OB:32:PRO:C	2.55	0.44
42:OE:298:PRO:HA	42:OE:301:GLN:OE1	2.16	0.44
41:OH:98:GLY:O	41:OH:100:ASN:N	2.51	0.44
42:OI:265:ILE:HG23	42:OI:432:TYR:CZ	2.52	0.44
41:OJ:120:VAL:HG11	41:OJ:155:ILE:HD11	1.99	0.44
41:OJ:325:GLU:O	41:OJ:326:VAL:C	2.54	0.44
41:OL:137:HIS:ND1	41:OL:138:SER:O	2.50	0.44
42:PC:276:ILE:HG13	42:PC:280:LYS:HG3	1.99	0.44
42:PC:311:LYS:HB3	42:PC:312:TYR:H	1.48	0.44
42:PE:76:ASP:HA	42:PE:79:ARG:HB2	1.99	0.44
42:PE:255:PHE:O	42:PE:259:LEU:N	2.49	0.44
42:PE:434:GLU:HA	42:PE:437:MET:HG2	1.98	0.44
41:PF:272:PRO:HG3	41:PF:289:LEU:HD11	1.99	0.44
41:PH:208:TYR:CD2	41:PH:225:LEU:HD21	2.52	0.44
42:PI:51:THR:OG1	42:PI:52:PHE:N	2.50	0.44
42:PI:234:ILE:HD13	42:PI:270:ALA:HB1	1.99	0.44
42:PI:434:GLU:O	42:PI:435:VAL:C	2.55	0.44
41:PJ:31:ASP:OD1	41:PJ:35:THR:N	2.50	0.44
41:PJ:414:ASN:O	41:PJ:417:ASP:N	2.49	0.44
42:PK:157:LEU:C	42:PK:159:VAL:H	2.20	0.44
42:PK:250:VAL:HG21	42:PK:318:LEU:HD11	2.00	0.44
41:PL:6:HIS:O	41:PL:63:ALA:HA	2.17	0.44
41:PL:12:CYS:O	41:PL:13:GLY:C	2.54	0.44
42:QC:422:ARG:HH12	42:QC:426:ALA:HB2	1.82	0.44
42:QE:22:GLU:OE2	42:QE:229:ARG:NH1	2.50	0.44
41:QJ:142:GLY:HA2	41:QJ:184:ASN:ND2	2.32	0.44
41:QJ:398:TYR:HB3	41:QJ:408:PHE:CZ	2.52	0.44
42:QK:22:GLU:HG2	42:QK:229:ARG:HH22	1.82	0.44
42:QK:324:VAL:HG13	42:QK:327:ASP:HB2	1.99	0.44
42:QK:335:ILE:HA	42:QK:338:LYS:HG2	1.98	0.44
42:RC:207:GLU:HB3	42:RC:304:LYS:HG3	1.99	0.44
42:RE:28:HIS:CE1	42:RE:49:PHE:HA	2.52	0.44
41:RF:257:MET:HA	41:RF:312:THR:HB	1.98	0.44
42:RG:25:CYS:O	42:RG:30:ILE:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:RI:81:GLY:O	42:RI:84:ARG:HD2	2.17	0.44
42:RI:105:ARG:HA	42:RI:109:THR:H	1.81	0.44
42:RI:306:ASP:OD2	42:RI:308:ARG:NH2	2.50	0.44
41:RJ:12:CYS:HA	43:RJ:501:GDP:C8	2.52	0.44
41:RJ:28:HIS:HB3	41:RJ:47:ILE:HG13	1.98	0.44
41:RJ:297:LYS:HE3	41:RJ:297:LYS:HB3	1.78	0.44
42:RK:261:PRO:HB2	42:RK:265:ILE:HD12	1.99	0.44
42:SC:353:VAL:HG23	41:SD:177:ASP:HA	1.99	0.44
41:SD:138:SER:HA	41:SD:169:VAL:HB	1.99	0.44
41:SD:155:ILE:O	41:SD:159:TYR:N	2.47	0.44
42:SE:48:SER:O	42:SE:49:PHE:C	2.55	0.44
42:SE:239:THR:O	42:SE:240:ALA:C	2.56	0.44
42:SI:431:ASP:HA	42:SI:434:GLU:CD	2.38	0.44
41:SJ:337:ASN:O	41:SJ:337:ASN:ND2	2.46	0.44
42:SM:97:GLU:HG2	42:SM:105:ARG:NH2	2.33	0.44
42:TC:194:THR:O	42:TC:198:SER:OG	2.23	0.44
41:TD:113:VAL:HG11	41:TD:150:LEU:HD23	1.99	0.44
41:TF:350:LYS:NZ	42:TG:181:VAL:H	2.16	0.44
42:TG:172:TYR:HB3	42:TG:205:ASP:HB3	1.99	0.44
41:TH:309:ARG:HG3	41:TH:426:GLN:HA	1.98	0.44
42:TI:304:LYS:HA	42:TI:304:LYS:HD2	1.34	0.44
42:TI:317:LEU:HB3	42:TI:319:TYR:CE1	2.53	0.44
42:TK:139:HIS:HD2	42:TK:141:PHE:N	2.15	0.44
42:TK:326:LYS:HE3	42:TK:326:LYS:HB3	1.56	0.44
41:UD:378:PHE:HE2	41:UD:418:LEU:HD23	1.82	0.44
41:UF:270:PHE:HB3	41:UF:273:LEU:HG	1.98	0.44
42:UI:388:TRP:HH2	42:UI:432:TYR:CD2	2.35	0.44
42:UK:298:PRO:HB3	42:UK:307:PRO:HD2	1.98	0.44
42:UK:311:LYS:H	42:UK:382:THR:HG22	1.82	0.44
41:VF:7:LEU:HA	41:VF:64:VAL:HG13	1.99	0.44
41:VH:2:ARG:HB2	41:VH:131:GLN:HB2	1.97	0.44
41:VH:238:THR:HG21	41:VH:318:ARG:HD2	1.98	0.44
42:VI:9:VAL:HG13	42:VI:139:HIS:HB3	1.97	0.44
42:VK:346:TRP:HB3	41:VL:391:ARG:HD3	1.98	0.44
42:WE:273:ALA:HB2	42:WE:375:VAL:CG1	2.47	0.44
42:WG:164:LYS:HD2	42:WG:164:LYS:HA	1.65	0.44
42:WI:261:PRO:HB3	42:WI:346:TRP:CH2	2.52	0.44
41:WJ:180:VAL:O	41:WJ:184:ASN:ND2	2.50	0.44
41:WJ:324:LYS:HD3	42:WK:210:TYR:HB3	1.99	0.44
41:WJ:325:GLU:OE1	42:WK:221:ARG:HD3	2.17	0.44
41:WL:10:GLY:HA2	41:WL:143:THR:HG23	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1F:97:LEU:HB2	26:4M:153:LEU:HD12	2.00	0.44
16:3C:58:GLN:N	42:UG:113:GLU:OE2	2.40	0.44
19:3J:338:LEU:HD23	19:3J:338:LEU:HA	1.87	0.44
20:3O:117:ILE:HG21	20:3O:122:ILE:HD11	2.00	0.44
20:3P:462:THR:HG23	41:FJ:216:LYS:HZ1	1.82	0.44
22:4A:28:ARG:NH2	41:BJ:53:GLU:O	2.50	0.44
24:4G:242:ARG:NH2	42:GK:59:GLY:O	2.47	0.44
27:4P:245:LYS:NZ	27:4P:249:PRO:O	2.50	0.44
27:4T:217:LYS:H	27:4T:217:LYS:HG2	1.42	0.44
29:4Y:102:ASN:H	41:HH:337:ASN:HD22	1.65	0.44
31:5E:118:TYR:HB2	31:5E:119:PRO:HD3	1.99	0.44
31:5G:7:GLU:HA	31:5G:10:ARG:HB3	1.98	0.44
31:5G:7:GLU:HG2	31:5G:79:LYS:NZ	2.32	0.44
32:5N:295:ASN:ND2	32:5O:38:VAL:HA	2.33	0.44
32:5O:245:ILE:HD13	32:5O:245:ILE:HA	1.73	0.44
33:5S:19:THR:HA	33:5S:22:TYR:HD2	1.81	0.44
33:5T:96:LYS:HG2	33:5T:155:ILE:HD13	2.00	0.44
33:5T:353:LYS:HB2	33:5T:353:LYS:HE2	1.62	0.44
34:6A:185:LEU:HD13	34:6A:185:LEU:HA	1.72	0.44
34:6G:296:VAL:HG23	34:6G:299:SER:H	1.82	0.44
34:6H:467:TYR:HH	35:6W:248:GLU:HB3	1.81	0.44
35:6U:188:GLU:OE1	35:6U:192:ARG:NH1	2.50	0.44
35:6U:347:GLU:HA	35:6U:350:LEU:HD23	1.99	0.44
35:6U:380:GLU:HG3	35:6V:95:THR:HB	1.98	0.44
35:6W:55:GLU:O	35:6W:56:TRP:C	2.54	0.44
37:7C:123:SER:OG	41:TL:337:ASN:OD1	2.28	0.44
37:7C:182:PRO:HG2	42:TI:341:ILE:HG12	1.99	0.44
37:7F:51:TYR:CD1	41:OD:291:GLN:HB2	2.51	0.44
41:AB:389:PHE:HZ	41:AB:408:PHE:HB3	1.82	0.44
41:AF:139:LEU:HD12	41:AF:170:VAL:HG12	1.98	0.44
41:AF:286:VAL:HB	41:AF:325:GLU:HG2	1.99	0.44
42:AG:56:THR:O	42:AG:57:GLY:C	2.55	0.44
41:AH:108:GLU:H	41:AH:108:GLU:HG2	1.47	0.44
42:AI:163:LYS:HG2	42:AI:164:LYS:H	1.83	0.44
41:AJ:7:LEU:N	41:AJ:134:GLN:O	2.49	0.44
41:AL:379:LYS:HE2	41:AL:379:LYS:HB3	1.35	0.44
42:BE:17:GLY:HA2	42:BE:20:CYS:HB2	2.00	0.44
41:BF:256:ASN:HB2	42:BG:181:VAL:HG12	1.99	0.44
41:BF:270:PHE:O	41:BF:298:ASN:ND2	2.50	0.44
41:BH:324:LYS:HB2	42:BI:210:TYR:CE1	2.52	0.44
41:CB:5:VAL:HG22	41:CB:62:ARG:HD3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:CB:66:VAL:HG12	41:CB:91:VAL:HB	1.99	0.44
42:CC:10:GLY:HA2	42:CC:145:THR:OG1	2.17	0.44
42:CC:437:MET:O	42:CC:438:ASP:C	2.56	0.44
42:CE:257:THR:HG22	41:CF:397:TRP:CE3	2.52	0.44
42:CG:334:THR:O	42:CG:338:LYS:HG2	2.17	0.44
41:CL:318:ARG:O	41:CL:364:SER:N	2.49	0.44
42:DE:246:GLY:HA2	42:DE:357:TYR:CD2	2.52	0.44
41:DF:375:GLN:O	41:DF:379:LYS:N	2.47	0.44
41:DJ:290:THR:HG22	41:DJ:317:PHE:CZ	2.52	0.44
41:DJ:296:ALA:C	41:DJ:298:ASN:H	2.21	0.44
41:DJ:399:THR:HA	41:DJ:403:MET:O	2.16	0.44
42:DK:31:GLN:HB2	42:DK:37:PRO:CD	2.47	0.44
41:DL:324:LYS:HB3	42:DM:222:PRO:HD2	1.99	0.44
42:DM:119:LEU:O	42:DM:123:ARG:HG2	2.17	0.44
41:ED:50:TYR:CE2	41:ED:237:THR:HG21	2.50	0.44
41:ED:151:LEU:O	41:ED:152:ILE:C	2.56	0.44
41:ED:191:GLN:HA	41:ED:195:ASN:ND2	2.32	0.44
41:ED:395:LEU:O	41:ED:396:HIS:C	2.54	0.44
41:ED:417:ASP:OD1	41:ED:418:LEU:N	2.49	0.44
42:EE:288:VAL:HA	42:EE:291:ILE:HD11	2.00	0.44
41:EF:19:LYS:HB2	41:EF:226:ASN:ND2	2.32	0.44
41:EF:392:LYS:HG2	41:EF:395:LEU:HD22	1.99	0.44
42:EG:5:ILE:H	42:EG:5:ILE:HG13	1.51	0.44
42:EG:166:LYS:HB3	42:EG:166:LYS:HE3	1.77	0.44
42:EI:32:PRO:HG3	42:EI:83:TYR:CZ	2.52	0.44
42:EI:185:TYR:CE2	42:EI:404:PHE:HB2	2.47	0.44
42:EK:320:ARG:HG3	42:EK:374:ALA:HB3	1.98	0.44
41:EL:214:THR:HG22	41:EL:273:LEU:O	2.17	0.44
42:EM:70:LEU:HD22	42:EM:114:LEU:HD21	1.98	0.44
42:EM:102:ASN:O	42:EM:103:TYR:C	2.55	0.44
42:EM:153:LEU:O	42:EM:157:LEU:HB2	2.18	0.44
42:EM:276:ILE:HD12	42:EM:281:ALA:HB1	1.99	0.44
42:EM:422:ARG:HA	42:EM:425:MET:HB3	1.98	0.44
42:FC:151:SER:HB3	42:FC:193:THR:HG21	1.99	0.44
41:FD:257:MET:HE2	41:FD:257:MET:HB2	1.84	0.44
42:FE:204:VAL:HG11	42:FE:231:ILE:HD11	1.99	0.44
41:FF:309:ARG:HD2	41:FF:340:TYR:HA	1.99	0.44
41:FJ:86:ARG:HD3	41:GJ:281:TYR:HB3	1.99	0.44
41:FJ:294:PHE:CD2	41:FJ:333:VAL:HG11	2.52	0.44
42:FK:414:GLU:O	42:FK:415:GLU:C	2.54	0.44
41:FL:49:VAL:HG11	41:FL:241:ARG:HB3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:FL:355:ASP:O	41:FL:356:ILE:C	2.56	0.44
41:GD:150:LEU:HD23	41:GD:150:LEU:HA	1.77	0.44
41:GF:187:LEU:HD21	41:GF:408:PHE:HE1	1.82	0.44
41:GJ:36:TYR:OH	41:GJ:40:SER:O	2.34	0.44
42:GK:251:ASP:HB2	42:GK:254:GLU:HG2	1.99	0.44
42:GM:174:ALA:HB3	42:GM:177:VAL:O	2.18	0.44
42:GM:234:ILE:H	42:GM:234:ILE:HG12	1.56	0.44
42:HC:144:GLY:N	45:HC:501:GTP:O2G	2.51	0.44
41:HD:165:ASN:HB3	41:HD:200:TYR:HE2	1.82	0.44
42:HG:103:TYR:O	42:HG:104:ALA:C	2.55	0.44
42:HM:194:THR:HA	42:HM:198:SER:HB3	1.99	0.44
42:IC:96:LYS:HE3	42:IC:96:LYS:HB3	1.79	0.44
41:ID:132:GLY:HA2	41:ID:162:ARG:HB3	2.00	0.44
42:IG:70:LEU:HD23	42:IG:145:THR:HG23	1.99	0.44
41:IN:44:LEU:HD12	41:IN:47:ILE:HD11	1.98	0.44
42:JC:88:HIS:HD2	42:MC:283:HIS:HB3	1.82	0.44
41:JF:268:PRO:HB2	41:JF:300:MET:HG3	2.00	0.44
42:JK:206:ASN:OD1	45:JK:501:GTP:N2	2.50	0.44
41:JL:290:THR:HA	41:JL:293:MET:HE3	2.00	0.44
41:JL:313:VAL:HG22	41:JL:349:VAL:HG12	2.00	0.44
42:JM:27:GLU:HA	42:JM:361:THR:HG21	1.99	0.44
41:KF:373:ALA:O	41:KF:376:GLU:HG2	2.17	0.44
42:KI:168:GLU:HG2	42:KI:201:ALA:HA	1.99	0.44
41:LD:267:MET:HG2	41:LD:301:ALA:HB3	1.99	0.44
42:LG:142:GLY:CA	42:LG:183:GLU:HG3	2.46	0.44
41:LH:152:ILE:HG22	41:LH:195:ASN:HB3	1.99	0.44
42:LI:7:VAL:HB	42:LI:137:ILE:HG22	1.98	0.44
41:LL:131:GLN:HE22	41:LL:250:LEU:HB2	1.81	0.44
41:MD:196:THR:HB	41:MD:199:THR:HG22	2.00	0.44
41:MD:218:THR:O	41:MD:220:PRO:HD3	2.17	0.44
41:MF:117:LEU:HD13	41:MF:117:LEU:HA	1.75	0.44
42:MI:98:ASP:N	42:MI:98:ASP:OD1	2.49	0.44
42:MI:213:CYS:HB3	42:MI:222:PRO:HG3	1.99	0.44
41:MJ:324:LYS:HE3	42:MK:221:ARG:HA	1.98	0.44
42:MK:11:GLN:HB2	42:MK:74:VAL:HG11	1.98	0.44
42:MK:272:TYR:HE2	42:MK:368:LEU:HD11	1.81	0.44
42:NA:167:LEU:HD11	42:NA:252:LEU:HG	1.99	0.44
41:NB:203:ASP:HB2	41:NB:301:ALA:HA	1.99	0.44
42:NC:88:HIS:O	42:NC:89:PRO:C	2.55	0.44
41:NL:61:PRO:HG3	41:NL:84:ILE:HG23	1.99	0.44
41:OB:271:ALA:HB3	41:OB:272:PRO:HD3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:OC:30:ILE:HG12	42:OC:36:MET:HG2	1.99	0.44
41:OD:87:PRO:HA	41:OD:90:PHE:CD2	2.52	0.44
41:OD:313:VAL:HG21	41:OD:367:PHE:CE1	2.52	0.44
42:OE:11:GLN:N	45:OE:501:GTP:O1B	2.49	0.44
42:OE:97:GLU:CD	42:OE:105:ARG:HH21	2.20	0.44
41:OF:121:ARG:NH1	41:OF:158:GLU:OE1	2.41	0.44
41:OH:138:SER:C	41:OH:140:GLY:H	2.20	0.44
41:OH:360:GLY:O	41:OH:361:LEU:C	2.55	0.44
42:OI:122:ILE:HG12	42:OI:161:TYR:OH	2.18	0.44
41:OJ:101:TRP:HD1	41:OJ:184:ASN:HA	1.82	0.44
42:OK:339:ARG:CD	42:OK:340:THR:H	2.25	0.44
41:OL:86:ARG:HE	41:PL:281:TYR:HD2	1.66	0.44
41:PB:16:ILE:H	41:PB:16:ILE:HG12	1.26	0.44
41:PB:252:LYS:HA	42:PC:100:ALA:CB	2.45	0.44
41:PB:292:GLN:HG2	41:PB:298:ASN:ND2	2.32	0.44
41:PB:385:PHE:HZ	41:PB:408:PHE:HB3	1.82	0.44
41:PB:415:MET:HE3	41:PB:415:MET:HB3	1.88	0.44
41:PF:240:LEU:HD11	41:PF:250:LEU:H	1.82	0.44
41:PH:29:GLY:O	41:PH:36:TYR:HA	2.17	0.44
41:PH:165:ASN:N	41:PH:165:ASN:OD1	2.50	0.44
42:PI:169:PHE:HB3	42:PI:202:PHE:HB2	1.99	0.44
41:PJ:206:ALA:O	41:PJ:207:LEU:C	2.54	0.44
42:PK:183:GLU:N	42:PK:184:PRO:HD2	2.31	0.44
41:PL:332:ASN:O	41:PL:333:VAL:C	2.55	0.44
41:QB:165:ASN:HD21	41:QB:250:LEU:HG	1.81	0.44
41:QD:3:GLU:O	41:QD:131:GLN:N	2.37	0.44
42:QE:108:TYR:HA	42:QE:112:LYS:HE3	2.00	0.44
41:QF:268:PRO:HG2	41:QF:300:MET:HB2	1.98	0.44
41:QF:366:THR:HG22	41:QF:368:ILE:HG12	1.97	0.44
41:QF:393:ALA:C	41:QF:395:LEU:H	2.21	0.44
41:QH:54:ALA:HA	41:RH:283:ALA:C	2.34	0.44
42:QI:88:HIS:O	42:QI:89:PRO:C	2.55	0.44
41:QJ:123:GLU:H	41:QJ:123:GLU:HG3	1.60	0.44
41:QJ:393:ALA:C	41:QJ:395:LEU:H	2.21	0.44
41:QL:101:TRP:HH2	41:QL:149:THR:HG21	1.81	0.44
41:QL:399:THR:O	41:QL:400:GLY:C	2.55	0.44
42:RE:324:VAL:HG23	42:RE:327:ASP:H	1.82	0.44
41:RF:30:ILE:HD12	41:RF:30:ILE:HA	1.70	0.44
41:RF:62:ARG:H	41:RF:62:ARG:HG3	1.66	0.44
42:RG:262:TYR:OH	41:RH:391:ARG:HG2	2.16	0.44
41:RH:206:ALA:O	41:RH:210:ILE:HG12	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:RJ:140:GLY:HA3	41:RJ:181:GLU:HG2	1.99	0.44
41:RJ:192:LEU:O	41:RJ:193:VAL:C	2.56	0.44
41:RJ:200:TYR:HD2	41:RJ:266:PHE:HB2	1.82	0.44
41:RL:321:MET:HE2	41:RL:321:MET:HB3	1.88	0.44
41:RL:354:CYS:SG	41:RL:355:ASP:N	2.89	0.44
42:SC:188:ILE:HD13	42:SC:395:PHE:HD1	1.82	0.44
42:SC:320:ARG:HB2	42:SC:374:ALA:HB3	1.99	0.44
41:SF:389:PHE:HE1	41:SF:409:THR:HG22	1.81	0.44
42:SK:332:ILE:HD13	42:SK:335:ILE:HD11	1.98	0.44
41:SL:321:MET:HG3	41:SL:353:VAL:HG13	2.00	0.44
42:TG:215:ARG:NE	42:TG:299:ALA:HB1	2.32	0.44
42:TI:357:TYR:O	42:TI:358:GLN:C	2.56	0.44
42:TI:371:VAL:HG22	42:TI:373:ARG:H	1.82	0.44
42:TK:87:PHE:HB2	42:TK:88:HIS:H	1.48	0.44
41:TL:101:TRP:CE3	41:TL:187:LEU:HD13	2.52	0.44
42:TM:25:CYS:O	42:TM:30:ILE:N	2.50	0.44
41:UF:282:ARG:NE	41:UF:288:GLU:OE1	2.50	0.44
42:UK:1:MET:O	42:UK:50:ASN:ND2	2.49	0.44
41:UL:379:LYS:O	41:UL:382:SER:OG	2.26	0.44
42:VE:70:LEU:HD13	42:VE:110:ILE:HG23	1.99	0.44
42:VG:55:GLU:O	42:WG:285:GLN:NE2	2.39	0.44
41:VH:304:ASP:OD1	41:VH:304:ASP:N	2.48	0.44
42:VM:10:GLY:HA2	42:VM:145:THR:HG23	1.99	0.44
42:VM:138:PHE:CD1	42:VM:169:PHE:HB2	2.52	0.44
42:WE:328:VAL:O	42:WE:332:ILE:HG13	2.17	0.44
42:WE:338:LYS:H	42:WE:338:LYS:HG2	1.57	0.44
41:WF:375:GLN:HB2	41:WF:419:VAL:HG13	2.00	0.44
42:WI:313:MET:HB3	42:WI:346:TRP:CH2	2.52	0.44
41:WN:375:GLN:HB2	41:WN:419:VAL:HG23	1.99	0.44
7:1T:256:ARG:CZ	42:MC:45:GLY:H	2.31	0.44
7:1U:225:ASN:HB2	41:ML:32:PRO:HG2	1.99	0.44
11:2L:288:MET:HG2	41:UD:280:GLN:NE2	2.32	0.44
15:3A:81:LEU:HA	41:JJ:276:ARG:HH22	1.83	0.44
19:3J:440:LEU:HD13	19:3J:451:ILE:HG13	1.98	0.44
20:3O:90:ILE:HG12	20:3O:101:VAL:HG22	1.98	0.44
20:3P:261:MET:HA	41:CJ:77:ARG:CZ	2.48	0.44
22:3Y:112:ALA:O	22:3Y:116:ASN:ND2	2.51	0.44
22:3Y:195:SER:O	22:3Y:199:LEU:N	2.35	0.44
22:3Y:234:LEU:HD22	22:3Y:264:GLY:HA3	1.98	0.44
25:4I:343:ARG:HE	25:4I:353:ASN:HB2	1.83	0.44
25:4J:12:GLU:OE1	25:4J:23:ARG:NE	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:4J:193:ARG:CZ	25:4J:203:ASN:HD22	2.30	0.44
26:4L:70:VAL:HA	26:4L:73:LEU:HD12	1.99	0.44
26:4L:276:ARG:O	26:4L:280:LYS:N	2.40	0.44
27:4P:99:GLU:H	27:4P:102:LYS:HZ3	1.66	0.44
31:5J:67:LEU:HA	31:5J:70:PHE:HD2	1.82	0.44
32:5M:119:ARG:HH12	32:5M:132:VAL:HG11	1.82	0.44
32:5M:288:GLU:HG3	32:5N:31:ARG:HG3	1.99	0.44
33:5T:284:LYS:HE3	33:5T:284:LYS:HB3	1.38	0.44
34:6C:256:LYS:HB2	34:6C:256:LYS:HE2	1.69	0.44
34:6C:360:LYS:HB3	34:6C:360:LYS:HE2	1.38	0.44
34:6D:354:THR:HG21	34:6D:465:SER:HB2	1.98	0.44
35:6R:267:ARG:H	35:6R:267:ARG:HG2	1.57	0.44
35:6S:422:SER:HA	35:6S:425:ILE:HG22	1.98	0.44
35:6W:50:LYS:HE2	35:6W:50:LYS:HB3	1.36	0.44
37:7F:68:PRO:HD3	42:OC:338:LYS:CE	2.47	0.44
42:AC:259:LEU:HD13	42:AC:316:CYS:HB2	1.98	0.44
42:AE:258:ASN:HB2	41:AF:179:VAL:HG22	1.98	0.44
42:AG:238:ILE:HG23	42:AG:255:PHE:CE2	2.52	0.44
42:AI:276:ILE:HD13	42:AI:281:ALA:CB	2.47	0.44
41:AL:147:MET:HE3	41:AL:147:MET:HB3	1.90	0.44
42:BE:2:ARG:HB2	42:BE:133:GLN:HE22	1.82	0.44
42:BG:264:ARG:NH1	42:BG:431:ASP:OD2	2.50	0.44
42:BG:328:VAL:O	42:BG:332:ILE:HG12	2.18	0.44
42:BI:258:ASN:HD21	41:BJ:179:VAL:H	1.63	0.44
41:CB:257:MET:CE	41:CB:314:ALA:HB2	2.47	0.44
41:CD:23:VAL:HG23	41:CD:227:HIS:CE1	2.52	0.44
41:CF:228:LEU:HD13	41:CF:228:LEU:HA	1.81	0.44
42:CG:9:VAL:HB	42:CG:150:THR:HG22	1.99	0.44
42:CG:163:LYS:O	42:CG:164:LYS:C	2.56	0.44
42:CG:234:ILE:HG23	42:CG:376:CYS:SG	2.57	0.44
42:CG:252:LEU:HD12	42:CG:252:LEU:HA	1.79	0.44
42:CK:138:PHE:CD1	42:CK:169:PHE:HB2	2.52	0.44
42:CK:238:ILE:HG12	42:CK:378:LEU:HD11	1.99	0.44
41:CL:357:PRO:HG2	41:CL:362:LYS:HD2	1.98	0.44
42:CM:60:LYS:HE3	42:DM:283:HIS:CD2	2.53	0.44
42:CM:177:VAL:HG12	42:CM:207:GLU:OE1	2.18	0.44
42:DC:88:HIS:HA	42:DC:89:PRO:HD3	1.87	0.44
42:DC:319:TYR:CE2	42:DC:375:VAL:HG22	2.52	0.44
42:DE:264:ARG:NH1	42:DE:431:ASP:OD2	2.51	0.44
42:DG:262:TYR:HA	41:DH:396:HIS:CE1	2.52	0.44
41:DH:378:PHE:HB2	41:DH:419:VAL:HG12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DJ:12:CYS:SG	41:DJ:169:VAL:HG11	2.57	0.44
41:DJ:101:TRP:CD2	41:DJ:187:LEU:HB3	2.52	0.44
41:DL:311:LEU:HB2	41:DL:425:TYR:HE1	1.81	0.44
41:ED:19:LYS:HA	41:ED:19:LYS:HD3	1.80	0.44
41:ED:170:VAL:HG21	41:ED:377:LEU:HD21	1.98	0.44
42:EE:195:LEU:HD21	42:EE:428:LEU:HG	1.98	0.44
42:EE:414:GLU:HG2	42:EE:416:GLY:N	2.32	0.44
42:EG:225:THR:OG1	42:EG:226:ASN:N	2.50	0.44
41:EH:68:LEU:HD11	41:EH:108:GLU:HG3	1.99	0.44
42:EI:98:ASP:O	42:EI:105:ARG:NH2	2.42	0.44
41:EL:192:LEU:HD23	41:EL:199:THR:HG21	1.98	0.44
42:EM:28:HIS:CE1	42:EM:243:ARG:HB3	2.52	0.44
42:EM:144:GLY:O	42:EM:147:SER:N	2.48	0.44
42:EM:164:LYS:O	42:EM:165:SER:C	2.55	0.44
42:FC:152:LEU:HD12	42:FC:152:LEU:HA	1.85	0.44
41:FD:139:LEU:HB2	41:FD:170:VAL:HA	1.98	0.44
42:FE:2:ARG:NH1	42:FE:242:LEU:O	2.51	0.44
41:FF:318:ARG:HE	41:FF:358:PRO:CD	2.31	0.44
42:FI:320:ARG:HB3	42:FI:358:GLN:O	2.17	0.44
42:FK:422:ARG:HA	42:FK:422:ARG:HD2	1.42	0.44
41:FL:42:LEU:HD12	41:FL:42:LEU:HA	1.71	0.44
41:FL:371:SER:C	41:FL:373:ALA:H	2.21	0.44
42:FM:55:GLU:OE1	42:FM:61:HIS:ND1	2.50	0.44
42:GC:306:ASP:HB3	42:GC:309:HIS:NE2	2.33	0.44
42:GE:422:ARG:HD2	42:GE:422:ARG:HA	1.82	0.44
42:GI:6:SER:OG	42:GI:8:HIS:NE2	2.46	0.44
42:GI:33:ASP:OD1	42:GI:34:GLY:N	2.50	0.44
42:GM:402:ARG:HA	42:GM:402:ARG:HD3	1.61	0.44
41:HD:9:ALA:HA	41:HD:66:VAL:HG12	1.98	0.44
41:HD:20:PHE:HA	41:HD:230:SER:HB2	1.99	0.44
41:HD:289:LEU:HD12	41:HD:317:PHE:HE2	1.82	0.44
41:HH:99:ASN:ND2	43:HH:501:GDP:O3A	2.50	0.44
41:HJ:129:CYS:O	41:HJ:130:LEU:C	2.56	0.44
41:HJ:240:LEU:HB2	41:HJ:249:ASP:HB3	1.98	0.44
41:HJ:322:SER:O	41:HJ:326:VAL:HG23	2.16	0.44
41:HL:68:LEU:HD23	41:HL:108:GLU:HG3	1.99	0.44
42:HM:136:LEU:HG	42:HM:138:PHE:CE1	2.52	0.44
41:IF:139:LEU:HA	41:IF:145:SER:HB3	1.99	0.44
41:IH:158:GLU:N	41:IH:158:GLU:OE2	2.50	0.44
41:IJ:410:GLU:HA	41:IJ:413:SER:HB2	1.99	0.44
42:IK:111:GLY:O	42:IK:115:ILE:HG12	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:IL:293:MET:HG3	41:IL:367:PHE:HB2	1.99	0.44
42:IM:79:ARG:HH21	42:IM:92:LEU:HB3	1.83	0.44
41:IN:215:LEU:O	41:IN:217:LEU:N	2.50	0.44
41:JD:51:TYR:HA	41:JD:61:PRO:HA	1.99	0.44
41:JF:326:VAL:O	41:JF:330:MET:HG2	2.17	0.44
41:JJ:28:HIS:HA	41:JJ:43:GLN:HB2	1.98	0.44
41:JL:122:LYS:HA	41:JL:122:LYS:HD2	1.55	0.44
42:KC:1:MET:O	42:KC:3:GLU:N	2.50	0.44
41:KJ:30:ILE:HG23	41:KJ:34:GLY:HA2	1.99	0.44
42:KM:326:LYS:HE2	42:KM:326:LYS:HB2	1.34	0.44
41:KN:401:GLU:N	41:KN:401:GLU:OE1	2.50	0.44
41:LD:207:LEU:HA	41:LD:210:ILE:HD12	1.99	0.44
42:LE:70:LEU:HD23	42:LE:114:LEU:HD12	1.99	0.44
42:LE:319:TYR:HD2	42:LE:323:VAL:HG11	1.82	0.44
41:LH:255:VAL:HG21	42:LI:102:ASN:HD21	1.80	0.44
41:LJ:87:PRO:HA	41:LJ:90:PHE:HD2	1.82	0.44
41:LJ:291:GLN:HE22	41:MJ:122:LYS:HD2	1.81	0.44
42:LM:79:ARG:NH2	42:LM:92:LEU:O	2.51	0.44
41:LN:274:THR:HG22	41:LN:282:ARG:HH11	1.82	0.44
42:MC:65:ALA:O	42:MC:91:GLN:HG2	2.18	0.44
41:MD:19:LYS:HE3	41:MD:19:LYS:HB3	1.43	0.44
41:MJ:257:MET:O	41:MJ:312:THR:OG1	2.25	0.44
41:MJ:289:LEU:HD21	41:MJ:365:ALA:HB3	2.00	0.44
42:MK:414:GLU:HB2	42:MK:417:GLU:HG3	1.98	0.44
41:MN:361:LEU:H	41:MN:361:LEU:HG	1.61	0.44
42:NA:163:LYS:HD3	42:NA:163:LYS:HA	1.66	0.44
41:NB:252:LYS:HE3	42:NC:101:ASN:HD21	1.81	0.44
42:NC:30:ILE:HG21	42:NC:61:HIS:HB2	1.99	0.44
42:NC:340:THR:OG1	42:NC:341:ILE:N	2.51	0.44
42:NE:70:LEU:HA	42:NE:95:GLY:HA3	1.98	0.44
42:NI:325:PRO:HB3	41:NJ:222:TYR:CZ	2.53	0.44
41:OF:21:TRP:HA	41:OF:24:ILE:HG22	2.00	0.44
41:OF:170:VAL:HG21	41:OF:377:LEU:HD21	2.00	0.44
41:OH:10:GLY:HA2	41:OH:143:THR:HB	1.99	0.44
41:OH:330:MET:HG3	41:OH:351:THR:HG22	2.00	0.44
42:OI:49:PHE:HB2	42:OI:53:PHE:HB2	1.98	0.44
41:OJ:193:VAL:HA	41:OJ:264:HIS:HE2	1.82	0.44
41:OJ:389:PHE:O	41:OJ:390:ARG:C	2.54	0.44
42:PA:288:VAL:O	42:PA:289:ALA:C	2.55	0.44
41:PB:108:GLU:O	41:PB:111:GLU:N	2.51	0.44
41:PB:285:THR:O	41:PB:286:VAL:C	2.56	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:PB:402:GLY:O	41:PB:403:MET:C	2.55	0.44
42:PC:8:HIS:HA	42:PC:138:PHE:HB2	1.99	0.44
42:PC:231:ILE:O	42:PC:235:VAL:HG13	2.16	0.44
41:PD:258:VAL:HG12	41:PD:264:HIS:HA	1.98	0.44
42:PE:26:LEU:C	42:PE:29:GLY:H	2.21	0.44
42:PG:248:LEU:HD12	42:PG:355:ILE:HD12	1.99	0.44
42:PG:287:SER:C	42:PG:289:ALA:N	2.68	0.44
42:PG:426:ALA:O	42:PG:430:LYS:HB2	2.17	0.44
41:PH:382:SER:O	41:PH:385:PHE:N	2.50	0.44
41:PH:418:LEU:O	41:PH:419:VAL:C	2.55	0.44
42:PI:339:ARG:H	42:PI:339:ARG:HG3	1.54	0.44
41:PJ:115:SER:O	41:PJ:118:ASP:HB2	2.18	0.44
41:QB:199:THR:HG22	41:QB:264:HIS:ND1	2.32	0.44
41:QB:303:CYS:HB2	41:QB:373:ALA:HB1	1.99	0.44
41:QD:178:THR:HG22	41:QD:180:VAL:H	1.82	0.44
42:QG:88:HIS:NE2	42:QG:91:GLN:O	2.51	0.44
42:QG:107:HIS:HD2	42:QG:149:PHE:HA	1.82	0.44
41:QH:294:PHE:CD1	41:QH:333:VAL:HG11	2.52	0.44
42:QI:430:LYS:HB2	42:QI:430:LYS:HE2	1.40	0.44
42:QK:125:LEU:O	42:QK:126:ALA:C	2.56	0.44
42:QK:164:LYS:HB3	42:QK:165:SER:H	1.66	0.44
42:QK:378:LEU:H	42:QK:378:LEU:HG	1.64	0.44
41:QL:16:ILE:HG22	41:QL:226:ASN:ND2	2.32	0.44
41:QL:20:PHE:CE1	41:QL:230:SER:HA	2.52	0.44
41:QL:218:THR:O	41:QL:220:PRO:HD3	2.17	0.44
41:QL:221:THR:HG23	41:QL:224:ASP:H	1.83	0.44
41:RB:66:VAL:HG23	41:RB:91:VAL:O	2.17	0.44
41:RF:248:ALA:HB2	41:RF:352:ALA:HB2	1.98	0.44
41:RL:103:LYS:O	41:RL:107:THR:N	2.46	0.44
41:RL:183:TYR:OH	41:RL:395:LEU:HD11	2.18	0.44
41:SD:226:ASN:HA	41:SD:229:VAL:HG12	1.99	0.44
41:SF:251:ARG:HE	41:SF:251:ARG:HB2	1.61	0.44
41:SF:289:LEU:HB3	41:SF:317:PHE:HE2	1.81	0.44
42:SG:135:PHE:O	42:SG:137:ILE:HG13	2.18	0.44
41:SH:282:ARG:HG2	41:SH:283:ALA:O	2.17	0.44
42:SI:21:TRP:CE3	42:SI:24:TYR:HD2	2.35	0.44
42:SI:238:ILE:HG23	42:SI:255:PHE:HZ	1.81	0.44
42:SI:311:LYS:HA	42:SI:342:GLN:HB3	1.98	0.44
41:SL:284:LEU:HD13	41:SL:284:LEU:HA	1.74	0.44
42:TC:409:VAL:HA	42:TC:413:MET:HB3	1.99	0.44
42:TE:317:LEU:HD22	42:TE:319:TYR:HE1	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:TF:270:PHE:CE1	41:TF:272:PRO:HD2	2.52	0.44
42:TG:319:TYR:N	42:TG:354:GLY:O	2.42	0.44
42:TI:287:SER:HB2	42:TI:290:GLU:HG2	1.98	0.44
42:TK:273:ALA:HB3	42:TK:375:VAL:H	1.83	0.44
42:TM:144:GLY:O	42:TM:148:GLY:N	2.51	0.44
42:TM:291:ILE:HD12	42:TM:375:VAL:HG23	1.98	0.44
42:UE:202:PHE:CE1	42:UE:378:LEU:HD22	2.53	0.44
42:UE:217:LEU:HD13	42:UE:277:SER:HB3	1.98	0.44
41:UF:259:PRO:HA	42:UG:404:PHE:CD1	2.52	0.44
41:UF:310:TYR:HD1	41:UF:371:SER:HB2	1.82	0.44
42:UI:278:ALA:HA	42:UI:369:ALA:HB2	1.99	0.44
42:UI:342:GLN:HA	42:UI:342:GLN:NE2	2.32	0.44
42:UI:348:PRO:HG2	41:UJ:384:GLN:HG2	1.99	0.44
41:UL:107:THR:O	41:UL:110:ALA:N	2.48	0.44
41:UL:257:MET:HG3	41:UL:266:PHE:CE1	2.53	0.44
41:UL:287:PRO:HA	41:UL:329:GLN:OE1	2.17	0.44
41:VD:245:GLN:O	42:VE:11:GLN:NE2	2.49	0.44
41:VH:10:GLY:O	41:VH:14:ASN:ND2	2.49	0.44
41:VH:282:ARG:HD2	41:VH:282:ARG:HA	1.80	0.44
42:VK:261:PRO:HA	41:VL:394:PHE:CD1	2.53	0.44
42:WG:431:ASP:HA	42:WG:434:GLU:HG3	1.99	0.44
41:WH:200:TYR:HE2	41:WH:266:PHE:HD2	1.65	0.44
41:WJ:396:HIS:HA	41:WJ:399:THR:HG22	1.99	0.44
41:WL:25:SER:OG	41:WL:51:TYR:OH	2.33	0.44
42:WM:205:ASP:OD1	42:WM:303:VAL:HA	2.18	0.44
5:1P:9:GLN:OE1	41:KL:304:ASP:HA	2.17	0.44
9:2D:509:LEU:HD23	41:IL:227:HIS:CE1	2.52	0.44
14:2V:249:LEU:HD11	42:LC:264:ARG:CZ	2.48	0.44
19:3K:97:LEU:O	19:3K:124:TYR:N	2.51	0.44
20:3N:315:ASP:N	20:3N:315:ASP:OD1	2.48	0.44
20:3O:12:TRP:HE1	41:KH:73:MET:HE3	1.82	0.44
20:3Q:520:GLU:HG2	20:3Q:590:ARG:NH2	2.32	0.44
23:4D:106:ASP:HB2	23:4D:108:ARG:HG2	1.99	0.44
24:4G:288:VAL:HA	24:4G:291:LYS:HE3	2.00	0.44
25:4J:56:HIS:O	25:4J:60:LEU:HD23	2.17	0.44
26:4K:291:PHE:HA	26:4K:294:ARG:HG2	1.98	0.44
31:5J:69:MET:HA	31:5J:72:ASP:HB2	1.99	0.44
32:5M:194:ASN:CG	34:6A:168:ILE:HD13	2.37	0.44
33:5S:235:LYS:HB2	33:5S:235:LYS:HE2	1.64	0.44
33:5X:258:ARG:HH22	33:5X:397:LEU:HB2	1.81	0.44
34:6A:128:ILE:O	34:6A:129:GLN:C	2.55	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:6A:258:LEU:HD12	34:6A:258:LEU:HA	1.82	0.44
34:6C:302:LYS:HE3	34:6C:302:LYS:HB3	1.69	0.44
34:6F:197:GLU:HA	34:6F:200:PHE:HD2	1.83	0.44
34:6F:437:ARG:HA	34:6F:440:ASP:OD2	2.18	0.44
35:6V:50:LYS:HE2	35:6V:50:LYS:HB2	1.58	0.44
35:6V:371:ASP:OD1	35:6V:372:ALA:N	2.51	0.44
35:6V:380:GLU:OE2	35:6W:99:SER:HB3	2.17	0.44
37:7E:180:PRO:HD2	37:7E:181:GLY:H	1.81	0.44
41:AB:101:TRP:CE3	41:AB:187:LEU:HD13	2.53	0.44
41:AF:331:LEU:HD11	42:AG:176:GLN:HB3	1.99	0.44
41:AH:263:LEU:HD11	41:AH:421:GLU:HG2	1.98	0.44
42:AK:242:LEU:HD13	42:AK:252:LEU:HD13	1.99	0.44
42:AK:274:PRO:HB2	42:AK:371:VAL:HG11	1.99	0.44
42:AK:305:CYS:O	42:AK:305:CYS:SG	2.76	0.44
42:BC:105:ARG:HG3	42:BC:411:GLU:OE1	2.17	0.44
42:BG:7:VAL:HG11	42:BG:153:LEU:HD11	2.00	0.44
41:BH:181:GLU:N	41:BH:182:PRO:HD2	2.33	0.44
41:BJ:282:ARG:NH2	41:BJ:288:GLU:OE1	2.50	0.44
42:BK:417:GLU:HA	42:BK:420:GLU:HB2	1.99	0.44
42:CC:3:GLU:H	42:CC:3:GLU:HG2	1.30	0.44
42:CC:16:ILE:H	42:CC:16:ILE:HG12	1.47	0.44
41:CF:167:PHE:CE1	41:CF:233:MET:HG2	2.52	0.44
41:CJ:395:LEU:HD12	41:CJ:399:THR:HG23	1.99	0.44
42:CK:122:ILE:O	42:CK:126:ALA:N	2.44	0.44
41:DD:136:THR:HB	41:DD:167:PHE:HB2	1.98	0.44
41:DF:167:PHE:HZ	41:DF:236:VAL:HG21	1.82	0.44
41:DH:257:MET:SD	41:DH:314:ALA:N	2.90	0.44
41:DH:257:MET:C	41:DH:259:PRO:HD3	2.36	0.44
41:DJ:197:ASP:N	41:DJ:197:ASP:OD2	2.50	0.44
41:DJ:354:CYS:SG	41:DJ:355:ASP:N	2.90	0.44
42:DK:89:PRO:HG2	42:EK:280:LYS:HB3	2.00	0.44
42:DK:414:GLU:O	42:DK:415:GLU:C	2.56	0.44
42:EC:3:GLU:HG3	42:EC:129:CYS:HB3	1.99	0.44
42:EC:76:ASP:OD1	42:EC:79:ARG:NH1	2.50	0.44
42:EC:234:ILE:HG21	42:EC:234:ILE:HD13	1.80	0.44
41:ED:28:HIS:NE2	41:ED:241:ARG:HD2	2.33	0.44
41:ED:69:GLU:O	41:ED:71:GLY:N	2.50	0.44
42:EG:289:ALA:O	42:EG:290:GLU:C	2.56	0.44
42:EG:370:LYS:HD2	42:EG:370:LYS:HA	1.58	0.44
41:EJ:173:PRO:HB3	41:EJ:380:ARG:CZ	2.48	0.44
42:EK:185:TYR:CE2	42:EK:398:MET:HB3	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:EM:221:ARG:N	42:EM:222:PRO:HD3	2.33	0.44
42:FC:31:GLN:O	42:FC:32:PRO:C	2.56	0.44
41:FD:187:LEU:HD23	41:FD:187:LEU:HA	1.84	0.44
41:FD:292:GLN:O	41:FD:293:MET:C	2.55	0.44
42:FE:209:ILE:HB	42:FE:227:LEU:HD22	2.00	0.44
42:FE:311:LYS:HE2	42:FE:343:PHE:HA	1.99	0.44
41:FH:86:ARG:HG2	41:FH:88:ASP:H	1.81	0.44
42:FI:226:ASN:HA	42:FI:229:ARG:HB2	2.00	0.44
42:FI:336:LYS:NZ	41:FJ:174:LYS:O	2.30	0.44
41:FJ:238:THR:HG21	41:FJ:318:ARG:NH1	2.32	0.44
41:FL:129:CYS:SG	41:FL:130:LEU:N	2.91	0.44
41:FL:324:LYS:HG2	42:FM:222:PRO:HD2	1.99	0.44
42:FM:136:LEU:HB3	42:FM:138:PHE:HE1	1.81	0.44
42:GC:185:TYR:OH	42:GC:403:ALA:O	2.29	0.44
41:GD:272:PRO:HB3	41:GD:284:LEU:HD11	1.99	0.44
42:GE:172:TYR:HB3	42:GE:205:ASP:HB3	1.99	0.44
42:GE:218:ASP:H	42:GE:277:SER:HB2	1.82	0.44
41:GH:31:ASP:OD2	41:GH:35:THR:OG1	2.34	0.44
41:GJ:331:LEU:HB2	42:GK:177:VAL:CB	2.46	0.44
41:GL:262:ARG:HH12	41:GL:414:ASN:HB2	1.83	0.44
42:HE:210:TYR:CE1	42:HE:227:LEU:HD11	2.52	0.44
42:HG:20:CYS:SG	42:HG:21:TRP:N	2.91	0.44
42:HG:136:LEU:HD22	42:HG:169:PHE:HE1	1.82	0.44
41:HH:269:GLY:N	41:HH:367:PHE:O	2.50	0.44
41:HJ:71:GLY:O	41:HJ:74:ASP:N	2.51	0.44
42:HK:211:ASP:HA	42:HK:214:ARG:NH1	2.33	0.44
42:HK:224:TYR:O	42:HK:228:ASN:ND2	2.50	0.44
42:IE:7:VAL:HG11	42:IE:153:LEU:HD21	1.99	0.44
42:IE:70:LEU:HG	42:IE:114:LEU:HD21	1.99	0.44
42:IE:139:HIS:CE1	42:IE:168:GLU:HB3	2.51	0.44
41:IF:278:SER:O	41:IF:278:SER:OG	2.33	0.44
42:IG:165:SER:OG	42:IG:256:GLN:NE2	2.50	0.44
41:IH:385:PHE:HZ	41:IH:408:PHE:HB3	1.83	0.44
41:IJ:36:TYR:CD1	41:IJ:44:LEU:HD13	2.52	0.44
41:IL:372:THR:HA	41:IL:422:TYR:OH	2.18	0.44
42:JG:258:ASN:ND2	42:JG:352:LYS:HD3	2.32	0.44
41:JH:63:ALA:O	41:JH:89:ASN:ND2	2.40	0.44
41:JH:86:ARG:HH21	41:MH:282:ARG:HH11	1.64	0.44
41:JJ:134:GLN:HA	41:JJ:165:ASN:HB2	1.98	0.44
42:JK:75:ILE:HA	42:JK:78:VAL:HG23	1.99	0.44
42:JK:261:PRO:HB2	42:JK:262:TYR:HD2	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:JM:119:LEU:HD13	42:JM:119:LEU:HA	1.77	0.44
42:JM:139:HIS:CB	42:JM:150:THR:HG21	2.47	0.44
41:KJ:330:MET:HA	41:KJ:333:VAL:HG12	1.99	0.44
42:KK:264:ARG:NH1	42:KK:424:ASP:OD2	2.49	0.44
41:KL:134:GLN:HG3	41:KL:167:PHE:HE2	1.82	0.44
42:KM:236:SER:O	42:KM:240:ALA:N	2.49	0.44
42:KM:261:PRO:HA	41:KN:394:PHE:CE1	2.52	0.44
42:KM:412:GLY:O	42:KM:413:MET:C	2.56	0.44
42:LE:285:GLN:HB3	42:ME:56:THR:HA	1.99	0.44
41:LF:248:ALA:HB3	41:LF:352:ALA:HB2	1.99	0.44
41:MD:19:LYS:HG3	41:MD:226:ASN:HB3	2.00	0.44
41:MF:226:ASN:O	41:MF:229:VAL:HG12	2.17	0.44
41:MF:380:ARG:O	41:MF:383:GLU:HG3	2.17	0.44
42:MK:217:LEU:HG	42:MK:277:SER:HA	1.99	0.44
41:ML:206:ALA:HB2	41:ML:302:ALA:HB2	1.99	0.44
42:MM:296:PHE:CD1	42:MM:341:ILE:HG12	2.52	0.44
42:NA:414:GLU:O	42:NA:415:GLU:C	2.56	0.44
41:NB:53:GLU:H	41:NB:53:GLU:HG2	1.43	0.44
41:NB:391:ARG:O	41:NB:392:LYS:C	2.55	0.44
42:NC:22:GLU:O	42:NC:26:LEU:HG	2.18	0.44
42:NC:26:LEU:HG	42:NC:26:LEU:H	1.60	0.44
41:NF:253:LEU:HD13	41:NF:253:LEU:HA	1.79	0.44
42:NI:110:ILE:H	42:NI:110:ILE:HG12	1.66	0.44
42:NI:173:PRO:HG3	42:NI:391:LEU:HD13	1.99	0.44
41:NJ:24:ILE:HG22	41:NJ:28:HIS:CE1	2.52	0.44
41:OD:131:GLN:NE2	41:OD:240:LEU:HD23	2.32	0.44
42:OG:302:MET:H	42:OG:302:MET:HG2	1.56	0.44
41:OH:162:ARG:HA	41:OH:162:ARG:HD3	1.57	0.44
41:OH:303:CYS:O	41:OH:304:ASP:C	2.55	0.44
42:PA:68:VAL:HA	42:PA:93:ILE:HG22	1.99	0.44
42:PA:140:SER:HA	42:PA:171:ILE:HG12	1.99	0.44
42:PA:242:LEU:H	42:PA:242:LEU:HG	1.57	0.44
41:PB:257:MET:HB3	41:PB:266:PHE:CE2	2.52	0.44
41:PB:282:ARG:HB3	41:PB:283:ALA:H	1.51	0.44
41:PB:346:PRO:HG2	42:PC:394:LYS:HB2	1.98	0.44
41:PB:375:GLN:HE21	41:PB:419:VAL:HG13	1.82	0.44
42:PC:5:ILE:HB	42:PC:135:PHE:CD1	2.53	0.44
42:PC:31:GLN:C	42:PC:33:ASP:H	2.21	0.44
41:PD:42:LEU:HD12	41:PD:42:LEU:HA	1.69	0.44
42:PE:88:HIS:HE1	42:QE:284:GLU:HB3	1.82	0.44
42:PE:106:GLY:HA3	42:PE:148:GLY:HA3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:PF:170:VAL:HG11	41:PF:377:LEU:HD11	1.99	0.44
42:PG:16:ILE:HG23	42:PG:228:ASN:OD1	2.17	0.44
41:PH:5:VAL:HG22	41:PH:62:ARG:CD	2.46	0.44
41:PH:57:GLY:C	41:PH:59:TYR:H	2.20	0.44
41:PH:299:MET:O	41:PH:301:ALA:N	2.46	0.44
42:PI:80:THR:HA	42:PI:84:ARG:NE	2.21	0.44
42:PI:290:GLU:O	42:PI:291:ILE:C	2.56	0.44
42:PI:392:ASP:O	42:PI:393:HIS:C	2.55	0.44
41:PJ:19:LYS:HB3	41:PJ:19:LYS:HE2	1.27	0.44
41:PJ:241:ARG:H	41:PJ:241:ARG:HG2	1.45	0.44
41:PJ:345:ILE:HD12	42:PK:404:PHE:HE2	1.82	0.44
42:PK:422:ARG:HD2	42:PK:422:ARG:HA	1.36	0.44
41:PL:309:ARG:HH21	41:PL:339:SER:HA	1.83	0.44
41:PL:403:MET:H	41:PL:403:MET:HG2	1.61	0.44
42:QC:155:GLU:OE2	42:QC:193:THR:HG23	2.17	0.44
41:QD:424:GLN:HG3	41:QD:425:TYR:CD1	2.52	0.44
41:QH:163:ILE:HG21	41:QH:250:LEU:HB3	1.99	0.44
41:QH:322:SER:O	41:QH:323:MET:C	2.55	0.44
41:QJ:17:GLY:HA2	41:QJ:20:PHE:HB2	1.99	0.44
42:QK:88:HIS:CE1	42:RK:283:HIS:HB2	2.53	0.44
42:QK:281:ALA:O	42:QK:282:TYR:C	2.56	0.44
41:QL:2:ARG:HH21	41:QL:49:VAL:HG13	1.81	0.44
41:QL:97:ALA:HB2	41:QL:103:LYS:CB	2.47	0.44
41:QL:326:VAL:HG13	41:QL:327:ASP:H	1.81	0.44
41:RB:136:THR:HG22	41:RB:167:PHE:HB2	1.99	0.44
41:RB:268:PRO:HG2	41:RB:300:MET:HG3	1.98	0.44
42:RC:188:ILE:O	42:RC:191:THR:OG1	2.26	0.44
42:RC:388:TRP:O	42:RC:392:ASP:N	2.48	0.44
41:RD:303:CYS:HB3	41:RD:376:GLU:CG	2.48	0.44
41:RF:13:GLY:O	41:RF:17:GLY:N	2.51	0.44
41:RJ:98:GLY:O	41:RJ:100:ASN:N	2.51	0.44
42:RK:258:ASN:CG	42:RK:352:LYS:HD2	2.38	0.44
41:SD:259:PRO:HG2	41:SD:311:LEU:HD13	1.98	0.44
42:SE:216:ASN:HB3	42:SE:275:VAL:HB	2.00	0.44
42:SI:280:LYS:H	42:SI:280:LYS:HG3	1.57	0.44
42:SK:88:HIS:HB3	42:SK:91:GLN:HG2	2.00	0.44
42:SK:272:TYR:HB3	42:SK:273:ALA:H	1.56	0.44
41:SL:322:SER:OG	42:SM:221:ARG:NH1	2.50	0.44
42:SM:158:SER:HB3	42:SM:197:HIS:NE2	2.33	0.44
42:TC:345:ASP:OD2	41:TD:390:ARG:NH2	2.50	0.44
41:TF:257:MET:HG2	41:TF:266:PHE:HE1	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:TF:384:GLN:O	41:TF:388:MET:HG3	2.18	0.44
42:TG:141:PHE:CZ	42:TG:194:THR:HG21	2.52	0.44
42:TG:326:LYS:HE3	41:TH:212:PHE:CZ	2.52	0.44
41:TH:31:ASP:OD2	41:TH:35:THR:OG1	2.20	0.44
41:TH:393:ALA:C	41:TH:395:LEU:H	2.19	0.44
42:TI:425:MET:HA	42:TI:428:LEU:HD23	1.99	0.44
42:TK:115:ILE:HB	42:TK:152:LEU:HD13	2.00	0.44
42:TM:66:VAL:HG11	42:TM:118:VAL:HG23	1.98	0.44
42:TM:241:SER:HA	42:TM:356:ASN:HD22	1.83	0.44
41:UD:33:THR:O	41:UD:58:LYS:NZ	2.35	0.44
42:UE:182:VAL:HG21	42:UE:408:TYR:OH	2.17	0.44
42:UE:262:TYR:O	42:UE:265:ILE:HG12	2.18	0.44
41:UF:252:LYS:HE3	41:UF:350:LYS:HZ1	1.82	0.44
41:UL:309:ARG:N	41:UL:426:GLN:HE22	2.15	0.44
41:VD:237:THR:HG22	41:VD:250:LEU:HD21	1.99	0.44
42:VI:194:THR:O	42:VI:266:HIS:NE2	2.45	0.44
42:WC:240:ALA:HA	42:WC:243:ARG:HE	1.83	0.44
42:WE:212:ILE:HG12	42:WE:212:ILE:H	1.60	0.44
41:WF:150:LEU:HD23	41:WF:150:LEU:HA	1.78	0.44
41:WH:198:GLU:HG2	41:WH:266:PHE:HE2	1.81	0.44
42:WI:391:LEU:HD12	42:WI:391:LEU:HA	1.78	0.44
41:WJ:321:MET:HE2	41:WJ:321:MET:HB2	1.69	0.44
41:WL:324:LYS:HZ2	42:WM:222:PRO:HD3	1.82	0.44
42:WM:295:CYS:HB3	42:WM:377:MET:SD	2.58	0.44
8:1X:37:ILE:HD11	27:4O:211:ILE:HB	1.98	0.44
9:2D:542:VAL:HA	42:IM:219:ILE:HG22	1.99	0.44
10:2F:94:LEU:HG	42:KE:116:ASP:HB3	1.98	0.44
11:2J:204:ILE:HD11	42:VC:370:LYS:HD3	1.99	0.44
13:2S:285:ARG:HE	42:GC:282:TYR:HB3	1.81	0.44
19:3K:124:TYR:HD1	19:3K:131:MET:HG2	1.82	0.44
22:3Y:28:ARG:CZ	41:CD:285:THR:HB	2.47	0.44
22:3Y:254:THR:O	22:3Y:258:LEU:HD13	2.18	0.44
23:4D:113:ARG:O	42:TK:46:ASP:HA	2.16	0.44
27:4P:70:THR:OG1	27:4P:118:GLU:OE2	2.30	0.44
30:5A:284:ILE:HB	42:LE:370:LYS:NZ	2.32	0.44
32:5M:301:LYS:HB3	32:5M:301:LYS:HE2	1.75	0.44
32:5O:43:ARG:HE	32:5O:43:ARG:HB3	1.62	0.44
32:5O:172:GLU:O	32:5O:173:LYS:C	2.56	0.44
33:5R:111:ASP:OD1	35:6Q:414:LYS:NZ	2.51	0.44
33:5R:125:ASP:O	33:5R:127:ASP:N	2.51	0.44
33:5R:372:ARG:H	33:5R:372:ARG:HG2	1.63	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:6A:215:VAL:O	34:6A:216:GLU:C	2.56	0.44
34:6E:407:PRO:HG3	34:6F:263:SER:HB3	2.00	0.44
34:6N:406:ARG:HA	34:6N:407:PRO:HD3	1.76	0.44
35:6R:116:GLU:OE1	35:6R:119:ARG:NH2	2.45	0.44
35:6T:317:LYS:HG2	35:6U:64:TYR:CZ	2.52	0.44
37:7D:7:VAL:HG12	41:TF:309:ARG:HH22	1.83	0.44
41:AD:385:PHE:HZ	41:AD:408:PHE:HB3	1.81	0.44
42:AI:304:LYS:HB3	42:AI:304:LYS:HE2	1.29	0.44
41:AJ:324:LYS:CG	42:AK:222:PRO:HD2	2.47	0.44
42:AK:104:ALA:HA	42:AK:108:TYR:HD2	1.82	0.44
42:AK:269:LEU:HG	42:AK:303:VAL:HG21	1.99	0.44
41:BB:113:VAL:HA	41:BB:116:VAL:HG22	1.98	0.44
41:BD:104:GLY:O	41:BD:109:GLY:HA3	2.17	0.44
41:BD:173:PRO:HD3	41:BD:380:ARG:NH1	2.32	0.44
41:BD:205:GLU:HG3	41:BD:302:ALA:CB	2.47	0.44
41:BD:358:PRO:HG3	41:BD:364:SER:CB	2.47	0.44
42:BG:285:GLN:H	42:BG:285:GLN:HG3	1.43	0.44
42:BI:91:GLN:O	42:BI:93:ILE:HG12	2.18	0.44
41:CB:230:SER:HA	41:CB:233:MET:HG2	2.00	0.44
41:CD:52:ASN:HB3	41:CD:53:GLU:H	1.68	0.44
41:CD:299:MET:H	41:CD:299:MET:HG2	1.50	0.44
42:CG:12:ALA:O	42:CG:16:ILE:HG13	2.17	0.44
42:CG:133:GLN:HG2	42:CG:252:LEU:HB2	2.00	0.44
41:CL:101:TRP:HD1	41:CL:145:SER:HB3	1.82	0.44
41:DB:310:TYR:HD2	41:DB:341:PHE:CZ	2.36	0.44
42:DC:104:ALA:HB2	42:DC:413:MET:SD	2.57	0.44
41:DD:3:GLU:HA	41:DD:49:VAL:HA	2.00	0.44
41:DF:313:VAL:HB	41:DF:367:PHE:HE1	1.82	0.44
42:DG:250:VAL:HG13	42:DG:254:GLU:HB2	1.98	0.44
41:DH:95:SER:OG	41:DH:96:GLY:N	2.50	0.44
41:DH:395:LEU:O	41:DH:399:THR:N	2.49	0.44
42:DK:152:LEU:HD12	42:DK:152:LEU:HA	1.83	0.44
42:DM:109:THR:O	42:DM:111:GLY:N	2.51	0.44
42:EC:271:THR:OG1	42:EC:377:MET:HB3	2.17	0.44
42:EG:51:THR:CG2	42:EG:243:ARG:HB3	2.46	0.44
42:EG:83:TYR:O	42:EG:84:ARG:C	2.56	0.44
42:EG:174:ALA:HA	42:EG:205:ASP:OD1	2.18	0.44
41:EH:222:TYR:HB3	43:EH:501:GDP:N1	2.33	0.44
41:EH:294:PHE:O	41:EH:306:ARG:NH2	2.50	0.44
41:EJ:151:LEU:O	41:EJ:155:ILE:HG12	2.18	0.44
42:EK:332:ILE:HD12	42:EK:332:ILE:HA	1.78	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:EM:192:HIS:CG	42:EM:193:THR:N	2.85	0.44
42:FC:151:SER:O	42:FC:153:LEU:N	2.51	0.44
42:FC:326:LYS:NZ	41:FD:220:PRO:HG3	2.32	0.44
42:FE:352:LYS:HA	41:FF:178:THR:HA	2.00	0.44
41:FF:247:ASN:OD1	41:FF:247:ASN:N	2.51	0.44
42:FI:247:ALA:HB3	42:FI:355:ILE:HB	1.99	0.44
42:FK:140:SER:O	42:FK:141:PHE:C	2.56	0.44
41:FL:69:GLU:H	41:FL:69:GLU:HG3	1.51	0.44
41:FL:143:THR:O	41:FL:147:MET:HB3	2.17	0.44
41:FL:342:VAL:HG12	41:FL:345:ILE:H	1.80	0.44
42:FM:320:ARG:HG2	42:FM:360:PRO:HD3	1.99	0.44
42:FM:385:ALA:HA	42:FM:388:TRP:CE3	2.52	0.44
42:GC:268:PRO:HA	42:GC:380:ASN:HA	2.00	0.44
42:GG:260:VAL:HG13	42:GG:265:ILE:O	2.18	0.44
41:GH:159:TYR:HB3	41:GH:162:ARG:HG2	1.99	0.44
41:GJ:259:PRO:HG3	41:GJ:311:LEU:HD22	1.99	0.44
42:GK:223:THR:O	42:GK:225:THR:N	2.51	0.44
41:HB:163:ILE:HD11	41:HB:251:ARG:HD3	1.98	0.44
42:HE:269:LEU:HD21	42:HE:384:ILE:HD12	2.00	0.44
42:HK:101:ASN:HD22	42:HK:143:GLY:HA2	1.82	0.44
42:HM:122:ILE:HD13	42:HM:157:LEU:HD11	1.98	0.44
42:HM:248:LEU:HD21	42:HM:355:ILE:HD12	1.99	0.44
42:IE:352:LYS:HG2	41:IF:178:THR:HA	1.98	0.44
41:IF:206:ALA:O	41:IF:210:ILE:HG12	2.18	0.44
41:IF:226:ASN:OD1	43:IF:501:GDP:N1	2.47	0.44
41:IF:273:LEU:HD13	41:IF:298:ASN:HD21	1.82	0.44
41:IF:350:LYS:HE3	41:IF:350:LYS:HB2	1.82	0.44
42:IG:27:GLU:OE1	42:IG:236:SER:OG	2.24	0.44
41:IH:133:PHE:HB2	41:IH:164:MET:HB2	2.00	0.44
41:IH:236:VAL:HG13	41:IH:237:THR:HG23	1.99	0.44
41:IJ:36:TYR:O	41:IJ:37:HIS:ND1	2.49	0.44
41:IN:344:TRP:CE3	41:IN:345:ILE:HG13	2.52	0.44
41:JD:6:HIS:HB2	41:JD:134:GLN:HE21	1.83	0.44
41:JF:350:LYS:HZ2	42:JG:179:THR:HG22	1.83	0.44
41:JH:144:GLY:N	43:JH:501:GDP:O2B	2.36	0.44
42:JK:135:PHE:HE1	42:JK:164:LYS:HG2	1.83	0.44
42:KE:4:CYS:SG	42:KE:51:THR:OG1	2.73	0.44
42:KE:168:GLU:OE2	42:KE:198:SER:OG	2.35	0.44
41:KJ:330:MET:SD	41:KJ:349:VAL:HG11	2.57	0.44
41:KN:288:GLU:HA	41:KN:291:GLN:HB3	1.98	0.44
42:LC:274:PRO:HG3	42:LC:374:ALA:HA	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:LD:27:GLU:HA	41:LD:359:ARG:HD3	1.99	0.44
41:LD:385:PHE:HZ	41:LD:408:PHE:HB3	1.82	0.44
42:LG:139:HIS:CE1	42:LG:170:SER:HB3	2.52	0.44
42:LG:352:LYS:NZ	42:LG:353:VAL:O	2.50	0.44
42:LI:119:LEU:HD11	42:LI:156:ARG:HB3	1.99	0.44
42:LK:147:SER:HB2	42:LK:190:THR:HB	1.99	0.44
41:LN:318:ARG:HA	41:LN:354:CYS:HB3	2.00	0.44
42:MC:147:SER:OG	42:MC:190:THR:OG1	2.29	0.44
42:MC:228:ASN:OD1	45:MC:501:GTP:N1	2.47	0.44
41:MD:285:THR:OG1	41:MD:287:PRO:HD2	2.17	0.44
42:MG:138:PHE:HZ	42:MG:235:VAL:HG11	1.82	0.44
41:MJ:5:VAL:HG23	41:MJ:130:LEU:HD11	1.99	0.44
41:MJ:171:PRO:HB2	41:MJ:181:GLU:OE1	2.18	0.44
42:MM:346:TRP:HD1	41:MN:391:ARG:HH21	1.66	0.44
41:MN:377:LEU:HD13	41:MN:377:LEU:HA	1.80	0.44
42:NA:104:ALA:HA	42:NA:108:TYR:HD2	1.83	0.44
42:NC:399:TYR:O	42:NC:400:ALA:C	2.56	0.44
42:NC:403:ALA:O	42:NC:404:PHE:C	2.56	0.44
41:ND:409:THR:O	41:ND:412:GLU:HG3	2.18	0.44
42:NG:403:ALA:O	42:NG:404:PHE:C	2.56	0.44
42:NG:436:GLY:O	42:NG:438:ASP:N	2.51	0.44
41:NH:61:PRO:CD	41:NH:84:ILE:HG12	2.48	0.44
41:NL:128:ASP:N	41:NL:128:ASP:OD1	2.48	0.44
41:OB:213:ARG:HB2	41:OB:297:LYS:HE3	1.99	0.44
42:OC:325:PRO:HB3	41:OD:222:TYR:CE1	2.52	0.44
41:OD:249:ASP:OD2	41:OD:251:ARG:N	2.51	0.44
42:OG:215:ARG:H	42:OG:215:ARG:HG3	1.66	0.44
41:OH:364:SER:OG	41:OH:365:ALA:N	2.50	0.44
42:OI:96:LYS:HA	42:OI:96:LYS:HD2	1.78	0.44
41:OJ:280:GLN:HE21	41:OJ:280:GLN:HB2	1.63	0.44
42:OK:333:ALA:HA	42:OK:336:LYS:HG2	1.99	0.44
42:PA:149:PHE:HD1	42:PA:149:PHE:HA	1.74	0.44
41:PB:6:HIS:HD2	41:PB:135:LEU:HA	1.83	0.44
41:PD:67:ASP:HB2	41:PD:73:MET:SD	2.57	0.44
41:PD:262:ARG:HE	41:PD:262:ARG:HB3	1.68	0.44
41:PF:42:LEU:HD12	41:PF:42:LEU:HA	1.71	0.44
41:PF:150:LEU:HD23	41:PF:150:LEU:HA	1.82	0.44
41:PF:276:ARG:HH11	41:PF:279:GLN:HB2	1.81	0.44
41:PF:338:SER:O	41:PF:340:TYR:N	2.51	0.44
42:PG:139:HIS:CB	42:PG:150:THR:HG21	2.43	0.44
41:PH:182:PRO:O	41:PH:186:THR:HG23	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:PI:292:THR:C	42:PI:294:ALA:H	2.20	0.44
41:PL:284:LEU:HD23	41:PL:284:LEU:HA	1.76	0.44
41:QB:255:VAL:HG11	42:QC:102:ASN:HB2	2.00	0.44
42:QE:1:MET:H2	42:QE:3:GLU:CD	2.21	0.44
41:QF:248:ALA:HB3	41:QF:352:ALA:HB2	1.99	0.44
41:QF:257:MET:HB3	41:QF:266:PHE:HE2	1.81	0.44
41:QH:16:ILE:HG21	41:QH:136:THR:HG21	1.99	0.44
42:QI:30:ILE:HA	42:QI:36:MET:HE2	1.97	0.44
42:QI:248:LEU:HD21	43:QJ:501:GDP:H2'	1.99	0.44
42:RC:414:GLU:HG3	42:RC:416:GLY:H	1.82	0.44
41:RD:151:LEU:HD13	41:RD:151:LEU:HA	1.75	0.44
41:RF:5:VAL:HG21	41:RF:124:ALA:HA	2.00	0.44
41:RF:309:ARG:HA	41:RF:309:ARG:HD3	1.28	0.44
41:RF:347:ASN:HD22	41:RF:349:VAL:HG23	1.82	0.44
42:RG:105:ARG:HD3	42:RG:110:ILE:HB	2.00	0.44
42:RG:274:PRO:HG2	42:RG:374:ALA:HB1	1.98	0.44
41:RJ:183:TYR:O	41:RJ:184:ASN:C	2.56	0.44
41:SD:344:TRP:HB3	42:SE:401:LYS:HD2	1.98	0.44
42:SE:346:TRP:O	41:SF:388:MET:HG2	2.18	0.44
41:SF:109:GLY:O	41:SF:110:ALA:C	2.56	0.44
41:SH:155:ILE:HG13	41:SH:164:MET:HE1	2.00	0.44
42:SI:69:ASP:O	42:SI:70:LEU:C	2.56	0.44
42:SI:239:THR:O	42:SI:242:LEU:N	2.49	0.44
42:SI:348:PRO:HD2	41:SJ:388:MET:HE2	1.99	0.44
41:SJ:230:SER:HA	41:SJ:233:MET:SD	2.58	0.44
41:SL:55:THR:HG21	41:TL:284:LEU:HB2	2.00	0.44
42:SM:4:CYS:HB2	42:SM:52:PHE:CE2	2.52	0.44
42:SM:73:THR:HG22	42:SM:74:VAL:H	1.82	0.44
41:TH:149:THR:HB	41:TH:191:GLN:HG3	2.00	0.44
42:TI:394:LYS:HE2	42:TI:394:LYS:HB2	1.62	0.44
41:TJ:273:LEU:HD23	41:TJ:273:LEU:HA	1.82	0.44
42:TK:136:LEU:HB3	42:TK:169:PHE:HE2	1.82	0.44
42:TK:289:ALA:O	42:TK:292:THR:N	2.51	0.44
41:TL:412:GLU:O	41:TL:416:ASN:N	2.35	0.44
42:TM:241:SER:HA	42:TM:356:ASN:ND2	2.33	0.44
42:UC:167:LEU:HD22	42:UC:200:CYS:HB2	2.00	0.44
42:UC:259:LEU:HD22	42:UC:259:LEU:HA	1.68	0.44
41:UD:209:ASP:HA	41:UD:212:PHE:CZ	2.53	0.44
41:UD:375:GLN:HE22	41:UD:419:VAL:HG22	1.81	0.44
42:UG:182:VAL:HG22	42:UG:404:PHE:CD2	2.53	0.44
41:UJ:27:GLU:HA	41:UJ:359:ARG:HE	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:UJ:39:ASP:OD1	41:UJ:40:SER:N	2.51	0.44
41:UJ:318:ARG:NH1	41:UJ:358:PRO:HG3	2.32	0.44
42:UM:88:HIS:CE1	42:UM:90:GLU:HB3	2.53	0.44
42:UM:120:ASP:N	42:UM:120:ASP:OD1	2.51	0.44
41:VD:242:PHE:HD2	41:VD:356:ILE:HG13	1.82	0.44
41:VD:285:THR:O	41:VD:288:GLU:HG3	2.17	0.44
41:VH:187:LEU:HD11	41:VH:408:PHE:CE1	2.52	0.44
42:VK:3:GLU:HA	42:VK:51:THR:HA	2.00	0.44
41:WD:266:PHE:HE2	41:WD:370:ASN:HB2	1.82	0.44
42:WE:430:LYS:HA	42:WE:430:LYS:HD2	1.33	0.44
41:WJ:384:GLN:O	41:WJ:388:MET:HG3	2.18	0.44
8:1X:38:THR:HA	27:4O:215:GLN:HE22	1.81	0.44
14:2Y:170:PHE:CZ	42:OK:371:VAL:HG22	2.52	0.44
19:3K:170:ARG:HD2	19:3K:204:PRO:HB3	1.99	0.44
19:3L:422:TYR:CE2	19:3L:490:PHE:HB3	2.53	0.44
20:3O:382:PHE:HA	41:EF:227:HIS:CE1	2.52	0.44
20:3O:442:TYR:CD1	20:3O:449:ILE:HG22	2.52	0.44
20:3P:64:VAL:HG23	20:3P:93:TYR:HA	1.99	0.44
21:3V:190:ARG:HH21	21:3V:252:VAL:HG21	1.82	0.44
22:4A:180:GLY:O	42:CK:79:ARG:NH1	2.51	0.44
27:4P:234:ARG:HD3	27:4P:255:LEU:HD23	1.98	0.44
27:4S:120:THR:HG22	27:4S:122:PRO:HD2	1.98	0.44
28:4V:126:SER:HB3	28:4V:128:ARG:HH21	1.82	0.44
33:5Q:40:GLN:O	33:5Q:44:VAL:HG23	2.18	0.44
33:5R:290:ILE:HG21	33:5R:367:TYR:HE1	1.80	0.44
33:5T:143:VAL:HG21	33:5T:257:GLN:HE21	1.82	0.44
33:5V:267:LYS:HG3	34:6A:155:PHE:HZ	1.82	0.44
33:5W:380:LYS:O	33:5W:384:MET:HE2	2.18	0.44
33:5X:258:ARG:O	33:5X:262:GLU:HG2	2.17	0.44
33:5X:308:LEU:O	33:5X:312:LYS:HG2	2.18	0.44
34:6B:410:GLU:O	34:6B:411:LEU:C	2.55	0.44
34:6C:270:LYS:HE2	34:6C:270:LYS:HB3	1.36	0.44
34:6E:383:LYS:O	34:6E:386:ILE:HG22	2.18	0.44
34:6L:95:THR:HG22	34:6L:97:ASP:H	1.80	0.44
34:6L:271:CYS:SG	34:6M:399:ARG:HA	2.58	0.44
35:6Q:257:TRP:CZ3	35:6R:366:VAL:HG12	2.52	0.44
35:6V:52:LEU:HB2	35:6V:55:GLU:HG3	1.99	0.44
35:6V:300:VAL:HG13	35:6V:434:ARG:HH12	1.83	0.44
35:6W:246:LYS:O	35:6W:248:GLU:N	2.50	0.44
37:7C:127:ARG:NH1	41:TL:296:ALA:HB1	2.32	0.44
37:7D:42:THR:HA	37:7D:43:PRO:HD3	1.88	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:AC:75:ILE:HD12	42:AC:94:THR:HG22	2.00	0.44
42:AC:234:ILE:HD11	42:AC:272:TYR:HB2	1.99	0.44
42:AC:280:LYS:HB3	42:AC:280:LYS:HE3	1.82	0.44
41:AD:173:PRO:HB3	41:AD:380:ARG:HD2	1.98	0.44
42:AE:16:ILE:HA	42:AE:228:ASN:HB3	2.00	0.44
41:AF:221:THR:HG23	41:AF:223:GLY:H	1.83	0.44
42:AK:328:VAL:HG12	42:AK:330:ALA:H	1.81	0.44
42:AK:338:LYS:HB2	42:AK:338:LYS:HE2	1.82	0.44
41:BD:133:PHE:HZ	41:BD:159:TYR:HB2	1.82	0.44
42:BG:28:HIS:O	42:BG:42:ILE:HG23	2.17	0.44
41:BH:284:LEU:HD23	41:BH:362:LYS:HB3	2.00	0.44
41:BH:324:LYS:HB2	42:BI:210:TYR:CD1	2.52	0.44
42:BI:7:VAL:HA	42:BI:66:VAL:HG13	1.99	0.44
42:BI:109:THR:C	42:BI:111:GLY:H	2.21	0.44
41:BJ:40:SER:HB3	41:BJ:43:GLN:HB2	1.99	0.44
42:BK:138:PHE:HZ	42:BK:235:VAL:HG11	1.82	0.44
42:BK:346:TRP:HH2	42:BK:435:VAL:HG13	1.83	0.44
41:CD:129:CYS:O	41:CD:130:LEU:C	2.56	0.44
42:CE:1:MET:N	42:CE:129:CYS:SG	2.91	0.44
42:CE:352:LYS:HA	41:CF:177:ASP:O	2.18	0.44
41:CF:170:VAL:CG1	41:CF:201:CYS:HB3	2.48	0.44
42:CG:314:ALA:HB2	41:CH:394:PHE:HZ	1.82	0.44
42:CI:66:VAL:HG21	42:CI:118:VAL:HG23	2.00	0.44
41:CJ:107:THR:HB	41:CJ:108:GLU:H	1.53	0.44
41:CJ:156:ARG:HE	41:CJ:164:MET:HB2	1.83	0.44
41:DB:21:TRP:CD1	41:DB:85:PHE:HZ	2.35	0.44
41:DD:8:GLN:HB2	41:DD:65:LEU:HA	1.99	0.44
41:DH:146:GLY:C	41:DH:148:GLY:H	2.21	0.44
41:DJ:385:PHE:HZ	41:DJ:408:PHE:HB3	1.82	0.44
42:DK:57:GLY:H	42:EK:285:GLN:NE2	2.15	0.44
41:DL:156:ARG:HG2	41:DL:195:ASN:HA	1.99	0.44
41:DL:248:ALA:HA	41:DL:252:LYS:HG2	1.99	0.44
42:EC:36:MET:SD	42:EC:37:PRO:HD2	2.57	0.44
42:EC:181:VAL:HG23	42:EC:182:VAL:HG13	2.00	0.44
42:EC:336:LYS:HD3	42:EC:351:PHE:HE2	1.83	0.44
41:ED:3:GLU:CG	41:ED:127:CYS:HB3	2.47	0.44
41:ED:372:THR:CG2	41:ED:426:GLN:HB2	2.45	0.44
42:EE:271:THR:HG23	42:EE:377:MET:HB3	1.99	0.44
42:EG:99:ALA:O	42:EG:100:ALA:HB2	2.16	0.44
42:EM:96:LYS:HE2	42:EM:96:LYS:HB3	1.42	0.44
42:EM:278:ALA:HA	42:EM:281:ALA:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:EM:316:CYS:HB3	42:EM:378:LEU:HD12	1.98	0.44
42:FC:93:ILE:HD11	42:FC:121:ARG:HG2	1.99	0.44
41:FD:117:LEU:HD13	41:FD:117:LEU:HA	1.76	0.44
42:FI:69:ASP:OD2	42:FI:74:VAL:HG11	2.18	0.44
42:FI:115:ILE:HD12	42:FI:156:ARG:HD3	1.99	0.44
41:FJ:64:VAL:HG22	41:FJ:119:VAL:HG12	1.98	0.44
41:FJ:202:ILE:HD13	41:FJ:229:VAL:HG12	2.00	0.44
42:FK:152:LEU:HD12	42:FK:152:LEU:HA	1.79	0.44
42:FK:401:LYS:HE2	42:FK:401:LYS:HB3	1.63	0.44
42:FM:98:ASP:O	42:FM:105:ARG:NH1	2.51	0.44
42:GC:195:LEU:HD21	42:GC:428:LEU:HD21	1.99	0.44
41:GD:309:ARG:N	41:GD:372:THR:OG1	2.49	0.44
42:GG:101:ASN:HD21	42:GG:180:ALA:HB1	1.83	0.44
41:GH:105:HIS:CD2	41:GH:150:LEU:HB2	2.52	0.44
42:GM:39:ASP:O	42:GM:40:LYS:C	2.56	0.44
41:HB:311:LEU:HD11	41:HB:372:THR:HG23	1.99	0.44
41:HB:391:ARG:NH1	42:HM:346:TRP:CD1	2.86	0.44
42:HC:147:SER:OG	42:HC:148:GLY:N	2.50	0.44
41:HD:12:CYS:HB2	43:HD:501:GDP:C8	2.52	0.44
41:HD:112:LEU:O	41:HD:116:VAL:HG23	2.17	0.44
41:HF:31:ASP:OD1	41:HF:32:PRO:HD2	2.17	0.44
41:HF:271:ALA:O	41:HF:273:LEU:N	2.51	0.44
41:HH:3:GLU:HA	41:HH:49:VAL:HA	1.99	0.44
42:HI:55:GLU:HG3	42:HI:56:THR:N	2.32	0.44
42:HI:220:GLU:O	42:HI:221:ARG:HG2	2.17	0.44
41:HJ:6:HIS:HD2	41:HJ:8:GLN:HG2	1.82	0.44
41:HJ:16:ILE:HG12	41:HJ:226:ASN:OD1	2.17	0.44
41:HJ:209:ASP:HA	41:HJ:212:PHE:CE1	2.53	0.44
42:II:148:GLY:O	42:II:151:SER:OG	2.25	0.44
41:IJ:129:CYS:HB2	42:IK:96:LYS:HD2	2.00	0.44
42:IK:256:GLN:NE2	41:IL:397:TRP:CE2	2.86	0.44
42:JE:204:VAL:HB	42:JE:209:ILE:HD11	2.00	0.44
42:JE:402:ARG:NH1	42:JE:415:GLU:OE1	2.43	0.44
42:JI:11:GLN:HG2	42:JI:74:VAL:HG11	1.98	0.44
42:JK:60:LYS:O	42:JK:62:VAL:N	2.51	0.44
42:JK:269:LEU:HB3	42:JK:303:VAL:CG1	2.45	0.44
41:JL:8:GLN:NE2	41:JL:136:THR:OG1	2.50	0.44
41:JL:423:GLN:O	41:JL:424:GLN:C	2.54	0.44
42:KC:231:ILE:HA	42:KC:234:ILE:HD12	1.99	0.44
42:KE:67:PHE:HB2	42:KE:92:LEU:HD13	1.99	0.44
42:KE:98:ASP:OD1	42:KE:98:ASP:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:KF:180:VAL:O	41:KF:184:ASN:ND2	2.51	0.44
41:KH:128:ASP:OD1	41:KH:128:ASP:N	2.46	0.44
41:KJ:8:GLN:HE21	41:KJ:14:ASN:HD22	1.64	0.44
42:KM:30:ILE:H	42:KM:30:ILE:HG12	1.27	0.44
42:KM:117:LEU:HD12	42:KM:117:LEU:HA	1.72	0.44
42:LC:110:ILE:HA	42:LC:113:GLU:HG2	2.00	0.44
42:LI:319:TYR:HB3	42:LI:323:VAL:HG21	1.98	0.44
42:MC:88:HIS:HE1	42:MC:90:GLU:HB2	1.81	0.44
42:MC:98:ASP:HB3	42:MC:100:ALA:H	1.83	0.44
41:MD:246:LEU:N	41:MD:246:LEU:HD23	2.33	0.44
41:MJ:193:VAL:HG12	41:MJ:265:PHE:HE1	1.83	0.44
41:NB:170:VAL:HG11	41:NB:377:LEU:HD11	1.99	0.44
42:NC:56:THR:HA	42:OC:285:GLN:HG2	2.00	0.44
42:NC:262:TYR:HE1	42:NC:435:VAL:HG13	1.82	0.44
41:NF:289:LEU:HD21	41:NF:317:PHE:CE1	2.53	0.44
41:NF:336:LYS:HB2	41:NF:336:LYS:HE2	1.53	0.44
42:NG:166:LYS:HB2	42:NG:166:LYS:HE2	1.29	0.44
42:NI:430:LYS:HD2	42:NI:430:LYS:HA	1.32	0.44
41:NJ:313:VAL:HB	41:NJ:349:VAL:HG12	1.99	0.44
41:NJ:372:THR:HG21	41:NJ:426:GLN:HB2	1.99	0.44
42:NK:93:ILE:H	42:NK:93:ILE:HG12	1.44	0.44
42:NK:166:LYS:HE3	42:NK:166:LYS:HB2	1.45	0.44
42:OA:66:VAL:HA	42:OA:91:GLN:HB2	2.00	0.44
41:OB:10:GLY:HA2	41:OB:143:THR:HB	1.99	0.44
42:OG:66:VAL:HG11	42:OG:122:ILE:HG13	1.99	0.44
41:OJ:156:ARG:HD2	41:OJ:156:ARG:HA	1.83	0.44
41:PB:283:ALA:O	41:PB:288:GLU:HG2	2.17	0.44
41:PB:285:THR:H	41:PB:288:GLU:HG2	1.83	0.44
41:PD:100:ASN:HB3	41:PD:103:LYS:HG3	1.99	0.44
41:PD:207:LEU:HD12	41:PD:225:LEU:HA	1.99	0.44
41:PD:271:ALA:O	41:PD:273:LEU:N	2.51	0.44
41:PF:398:TYR:HB3	41:PF:408:PHE:HZ	1.82	0.44
42:PG:96:LYS:HE2	42:PG:96:LYS:HB3	1.37	0.44
41:PH:22:GLU:O	41:PH:23:VAL:C	2.55	0.44
41:PH:188:SER:O	41:PH:189:VAL:C	2.55	0.44
41:PH:323:MET:O	41:PH:324:LYS:C	2.53	0.44
42:PI:162:GLY:O	42:PI:163:LYS:HE2	2.17	0.44
41:PJ:315:ALA:O	41:PJ:317:PHE:N	2.51	0.44
42:PK:112:LYS:HD3	42:PK:112:LYS:HA	1.60	0.44
42:QC:9:VAL:HG11	42:QC:150:THR:HG22	2.00	0.44
41:QD:13:GLY:HA2	41:QD:16:ILE:HG22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:QE:179:THR:OG1	42:QE:183:GLU:OE2	2.35	0.44
41:QF:200:TYR:CE1	41:QF:368:ILE:HG23	2.52	0.44
42:QG:46:ASP:N	42:QG:46:ASP:OD1	2.51	0.44
42:QG:209:ILE:HG13	42:QG:212:ILE:HD12	1.98	0.44
41:QH:183:TYR:HD1	41:QH:385:PHE:CE2	2.36	0.44
41:QH:392:LYS:HE3	41:QH:392:LYS:HB3	1.76	0.44
42:QK:56:THR:HA	42:RK:285:GLN:HB2	2.00	0.44
42:QK:106:GLY:HA2	42:QK:111:GLY:N	2.33	0.44
42:QK:311:LYS:HB3	42:QK:342:GLN:HE22	1.83	0.44
41:QL:16:ILE:HD11	41:QL:136:THR:HG22	2.00	0.44
41:QL:117:LEU:HA	41:QL:120:VAL:HB	1.98	0.44
41:QL:231:ALA:O	41:QL:232:THR:C	2.56	0.44
41:QL:252:LYS:HD3	41:QL:252:LYS:HA	1.73	0.44
41:RD:61:PRO:O	41:RD:62:ARG:C	2.55	0.44
41:RD:256:ASN:OD1	42:RE:181:VAL:HB	2.18	0.44
42:RE:70:LEU:O	42:RE:98:ASP:HA	2.18	0.44
41:RF:418:LEU:HD22	41:RF:418:LEU:HA	1.78	0.44
41:RJ:45:GLU:H	41:RJ:45:GLU:HG3	1.54	0.44
41:RJ:271:ALA:HA	41:RJ:298:ASN:HD22	1.83	0.44
41:SD:2:ARG:HH21	41:SD:240:LEU:HD12	1.83	0.44
42:SE:347:CYS:O	42:SE:347:CYS:SG	2.76	0.44
41:SH:151:LEU:O	41:SH:155:ILE:HG12	2.18	0.44
42:SI:70:LEU:HD13	42:SI:70:LEU:HA	1.85	0.44
42:SI:370:LYS:HZ2	42:SI:370:LYS:HG2	1.72	0.44
42:SI:391:LEU:HD22	42:SI:391:LEU:HA	1.73	0.44
41:SL:237:THR:HG23	41:SL:250:LEU:HD13	1.99	0.44
42:TC:226:ASN:OD1	42:TC:226:ASN:N	2.48	0.44
42:TE:360:PRO:HG3	42:TE:374:ALA:HB2	1.98	0.44
42:TE:439:SER:HB2	41:TF:391:ARG:HH21	1.82	0.44
41:TJ:44:LEU:HG	41:TJ:47:ILE:HD12	1.99	0.44
41:TJ:323:MET:HE2	41:TJ:323:MET:HB3	1.68	0.44
42:TM:321:GLY:H	42:TM:358:GLN:H	1.66	0.44
42:TM:392:ASP:OD1	42:TM:425:MET:HG2	2.18	0.44
42:UC:397:LEU:H	42:UC:397:LEU:HG	1.51	0.44
42:UE:301:GLN:NE2	42:UE:303:VAL:O	2.50	0.44
41:UH:5:VAL:HG11	41:UH:120:VAL:HG23	2.00	0.44
42:UK:121:ARG:HA	42:UK:121:ARG:HD3	1.45	0.44
41:VD:116:VAL:HG13	41:VD:151:LEU:HD21	1.98	0.44
42:VI:167:LEU:HD22	42:VI:200:CYS:HB2	1.98	0.44
42:VK:285:GLN:H	42:VK:285:GLN:HG3	1.59	0.44
41:VL:211:CYS:HA	41:VL:215:LEU:HB2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:WD:204:ASN:ND2	43:WD:501:GDP:O2'	2.50	0.44
42:WG:168:GLU:HG2	42:WG:201:ALA:HA	2.00	0.44
41:WH:117:LEU:HD11	41:WH:154:LYS:HB3	2.00	0.44
42:WK:257:THR:HA	41:WL:397:TRP:CD1	2.53	0.44
8:1Z:27:LYS:HE3	27:4Q:208:GLY:HA3	2.00	0.44
11:2M:446:ARG:NH1	41:UJ:360:GLY:HA2	2.29	0.44
20:3P:208:PHE:CE2	42:CI:370:LYS:HE3	2.52	0.44
20:3P:462:THR:HG23	41:FJ:216:LYS:NZ	2.33	0.44
22:3Z:95:PHE:CE2	41:AH:59:TYR:HE1	2.32	0.44
26:4M:162:LYS:HE3	41:HB:336:LYS:HZ1	1.82	0.44
27:4R:56:PRO:O	27:4R:57:PRO:C	2.56	0.44
30:5A:214:LYS:HE3	42:LG:281:ALA:O	2.18	0.44
31:5E:80:LEU:HD11	31:5E:100:LYS:HB3	1.99	0.44
32:5M:339:LYS:O	32:5M:343:GLU:N	2.48	0.44
33:5V:252:ASN:ND2	34:6A:320:LYS:CE	2.76	0.44
33:5V:399:VAL:HG22	33:5V:400:PRO:HD3	1.99	0.44
34:6C:342:LYS:HB2	34:6C:342:LYS:HE3	1.62	0.44
34:6C:398:THR:O	34:6C:399:ARG:C	2.55	0.44
34:6C:411:LEU:HD12	34:6C:411:LEU:HA	1.79	0.44
34:6D:410:GLU:O	34:6D:411:LEU:C	2.55	0.44
34:6F:189:GLU:O	34:6F:193:GLN:HG2	2.17	0.44
34:6F:212:HIS:HB2	34:6G:93:ARG:HG2	1.98	0.44
34:6K:189:GLU:OE2	34:6K:189:GLU:N	2.37	0.44
34:6L:198:CYS:SG	34:6L:199:LEU:N	2.91	0.44
34:6M:161:ILE:HD12	35:6W:247:PHE:CE2	2.53	0.44
34:6M:169:GLY:O	34:6M:172:ASN:N	2.46	0.44
35:6R:149:PHE:HB2	35:6R:183:ILE:HG21	2.00	0.44
35:6U:308:CYS:SG	35:6U:427:ARG:NH1	2.90	0.44
35:6V:4:THR:OG1	35:6V:5:ASP:N	2.48	0.44
35:6V:124:LEU:HA	35:6V:127:GLU:HB2	2.00	0.44
42:AI:167:LEU:HB3	42:AI:202:PHE:HE2	1.81	0.44
42:AK:103:TYR:OH	42:AK:190:THR:HB	2.18	0.44
42:BC:168:GLU:HB3	42:BC:201:ALA:HA	2.00	0.44
41:BD:132:GLY:HA2	41:BD:163:ILE:O	2.18	0.44
42:BI:193:THR:OG1	42:BI:194:THR:N	2.50	0.44
42:BI:232:GLY:O	42:BI:235:VAL:HG12	2.18	0.44
42:CE:11:GLN:HG3	42:CE:74:VAL:HG21	2.00	0.44
42:CE:133:GLN:HE22	42:CE:242:LEU:HD11	1.82	0.44
41:CF:207:LEU:HD13	41:CF:207:LEU:HA	1.64	0.44
41:CF:345:ILE:O	41:CF:346:PRO:C	2.54	0.44
41:CH:246:LEU:HD11	42:CI:224:TYR:CE2	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:CJ:309:ARG:HD2	41:CJ:426:GLN:O	2.18	0.44
42:CM:27:GLU:HB3	42:CM:244:PHE:HZ	1.83	0.44
41:DB:318:ARG:NH2	41:DB:358:PRO:HG3	2.32	0.44
42:DC:108:TYR:HA	42:DC:112:LYS:HD2	1.98	0.44
41:DD:246:LEU:HD22	41:DD:351:THR:O	2.18	0.44
42:DE:69:ASP:O	42:DE:94:THR:HA	2.17	0.44
42:DE:141:PHE:HD2	42:DE:172:TYR:HA	1.83	0.44
41:DF:51:TYR:HB3	41:DF:59:TYR:HB3	1.99	0.44
41:DH:67:ASP:HB3	41:DH:73:MET:HE1	2.00	0.44
41:DH:156:ARG:HG3	41:DH:195:ASN:O	2.18	0.44
41:DH:256:ASN:O	41:DH:257:MET:HE2	2.18	0.44
41:DH:289:LEU:HD11	41:DH:364:SER:HA	2.00	0.44
41:DH:319:GLY:O	41:DH:321:MET:N	2.50	0.44
42:DI:175:PRO:HB3	42:DI:390:ARG:HE	1.83	0.44
42:DI:202:PHE:CD1	42:DI:268:PRO:HG2	2.52	0.44
42:DI:398:MET:HE3	42:DI:398:MET:HB2	1.82	0.44
41:DJ:359:ARG:HE	41:DJ:359:ARG:HB2	1.47	0.44
42:DK:191:THR:HG22	42:DK:195:LEU:HG	1.98	0.44
41:DL:372:THR:O	41:DL:375:GLN:HG2	2.17	0.44
42:DM:377:MET:HE2	42:DM:377:MET:HB2	1.86	0.44
42:EE:139:HIS:CD2	42:EE:150:THR:HG21	2.53	0.44
42:EE:257:THR:OG1	42:EE:258:ASN:N	2.51	0.44
41:EH:7:LEU:O	41:EH:135:LEU:HA	2.18	0.44
41:EH:151:LEU:O	41:EH:155:ILE:HG12	2.17	0.44
41:EJ:318:ARG:HD3	41:EJ:358:PRO:HD3	2.00	0.44
42:EK:406:HIS:H	42:EK:406:HIS:CD2	2.36	0.44
41:EL:245:GLN:NE2	42:EM:224:TYR:CB	2.81	0.44
41:EL:263:LEU:HD21	41:EL:421:GLU:HB2	1.99	0.44
41:EL:310:TYR:HA	41:EL:371:SER:HA	1.99	0.44
42:EM:25:CYS:O	42:EM:26:LEU:C	2.56	0.44
42:EM:238:ILE:HG22	42:EM:239:THR:HG23	1.99	0.44
42:EM:284:GLU:HB3	42:EM:286:LEU:HD12	1.99	0.44
42:FC:134:GLY:N	42:FC:164:LYS:HZ1	2.16	0.44
41:FF:47:ILE:HG12	41:FF:51:TYR:HB2	2.00	0.44
42:FG:26:LEU:HD11	42:FG:364:PRO:HD3	1.99	0.44
42:FI:28:HIS:HE1	42:FI:50:ASN:HB2	1.82	0.44
42:FI:346:TRP:HH2	42:FI:435:VAL:HG13	1.82	0.44
41:FL:285:THR:HG22	41:FL:287:PRO:HD2	2.00	0.44
41:FL:297:LYS:H	41:FL:297:LYS:HZ2	1.65	0.44
42:GE:202:PHE:CD1	42:GE:378:LEU:HD12	2.53	0.44
42:GI:101:ASN:C	42:GI:186:ASN:HD21	2.21	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:GJ:61:PRO:HD3	41:GJ:84:ILE:HG12	1.99	0.44
41:GJ:384:GLN:O	41:GJ:385:PHE:C	2.56	0.44
42:GM:230:LEU:HD23	42:GM:230:LEU:HA	1.75	0.44
41:HB:68:LEU:HD12	41:HB:108:GLU:HG3	2.00	0.44
41:HB:193:VAL:HG22	41:HB:265:PHE:CE1	2.53	0.44
42:HC:2:ARG:H	42:HC:2:ARG:HG2	1.25	0.44
42:HC:381:THR:C	42:HC:383:ALA:N	2.71	0.44
42:HE:71:GLU:HA	42:HE:72:PRO:HD3	1.82	0.44
42:HE:318:LEU:HD12	42:HE:354:GLY:HA3	2.00	0.44
42:HG:261:PRO:HA	41:HH:394:PHE:HE1	1.80	0.44
42:HG:302:MET:HE2	42:HG:302:MET:HB2	1.77	0.44
42:HI:335:ILE:HD13	42:HI:335:ILE:HA	1.86	0.44
41:HJ:255:VAL:HG23	42:HK:182:VAL:HG21	1.99	0.44
42:HM:107:HIS:HB2	42:HM:148:GLY:CA	2.48	0.44
41:ID:215:LEU:HB3	41:ID:217:LEU:HD13	2.00	0.44
42:IE:218:ASP:O	42:IE:219:ILE:C	2.56	0.44
42:IE:306:ASP:HB2	42:IE:308:ARG:HG3	1.98	0.44
42:IG:101:ASN:HA	42:IG:144:GLY:H	1.83	0.44
42:II:14:VAL:O	42:II:18:ASN:N	2.51	0.44
41:IJ:412:GLU:OE2	41:IJ:416:ASN:ND2	2.49	0.44
42:IK:16:ILE:O	42:IK:20:CYS:N	2.36	0.44
41:IL:216:LYS:HB2	41:IL:275:SER:HB2	1.99	0.44
41:IN:157:GLU:O	41:IN:158:GLU:C	2.56	0.44
42:JC:88:HIS:HA	42:JC:89:PRO:HD3	1.76	0.44
42:JC:258:ASN:OD1	41:JD:179:VAL:HG12	2.18	0.44
41:JH:207:LEU:HD11	41:JH:300:MET:HA	2.00	0.44
41:JJ:236:VAL:HG13	41:JJ:253:LEU:HD23	1.99	0.44
42:JK:24:TYR:HB3	42:JK:53:PHE:CE2	2.53	0.44
41:JL:279:GLN:H	41:JL:279:GLN:HG2	1.48	0.44
42:JM:107:HIS:HD2	42:JM:151:SER:HB2	1.83	0.44
41:KF:172:SER:HB2	41:KF:205:GLU:OE2	2.17	0.44
41:KH:257:MET:HA	41:KH:312:THR:HG21	1.98	0.44
41:KJ:395:LEU:HA	41:KJ:395:LEU:HD23	1.79	0.44
42:KK:256:GLN:HG3	42:KK:257:THR:HG23	1.98	0.44
42:KM:31:GLN:O	42:KM:33:ASP:N	2.46	0.44
42:KM:114:LEU:HD23	42:KM:114:LEU:HA	1.83	0.44
41:KN:280:GLN:HG3	41:LN:58:LYS:HE3	2.00	0.44
42:LC:399:TYR:O	42:LC:402:ARG:NH1	2.51	0.44
41:LF:198:GLU:HB2	41:LF:266:PHE:CE2	2.53	0.44
41:LH:215:LEU:HD21	41:LH:273:LEU:HD22	2.00	0.44
42:MC:67:PHE:HB2	42:MC:92:LEU:HA	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:MD:156:ARG:HD3	41:MD:164:MET:HB2	2.00	0.44
41:MJ:10:GLY:O	41:MJ:14:ASN:ND2	2.51	0.44
42:MM:438:ASP:HA	41:MN:391:ARG:HH12	1.83	0.44
41:MN:293:MET:HE3	41:MN:293:MET:HB3	1.76	0.44
42:NA:109:THR:HG23	42:NA:110:ILE:H	1.82	0.44
41:NB:117:LEU:HD13	41:NB:117:LEU:HA	1.90	0.44
41:ND:240:LEU:HD12	41:ND:240:LEU:HA	1.69	0.44
41:ND:266:PHE:HB2	41:ND:368:ILE:HD11	2.00	0.44
41:ND:374:ILE:H	41:ND:374:ILE:HG12	1.42	0.44
41:NF:302:ALA:O	41:NF:303:CYS:C	2.55	0.44
41:NH:5:VAL:HG23	41:NH:133:PHE:HB3	1.98	0.44
42:NK:79:ARG:HH11	42:NK:92:LEU:HD13	1.82	0.44
42:NK:98:ASP:CG	42:NK:100:ALA:H	2.21	0.44
41:OB:364:SER:OG	41:OB:365:ALA:N	2.49	0.44
42:OC:103:TYR:H	42:OC:408:TYR:HE2	1.64	0.44
42:OE:87:PHE:HB3	42:OE:92:LEU:HD21	1.99	0.44
42:OE:125:LEU:HA	42:OE:128:GLN:HE22	1.83	0.44
42:OE:191:THR:HG21	42:OE:425:MET:SD	2.58	0.44
42:OE:213:CYS:HA	42:OE:217:LEU:HB2	2.00	0.44
42:OG:61:HIS:O	42:OG:62:VAL:C	2.56	0.44
42:OG:254:GLU:O	42:OG:255:PHE:C	2.55	0.44
41:OH:114:ASP:O	41:OH:115:SER:C	2.56	0.44
42:PA:212:ILE:HG23	42:PA:216:ASN:HD21	1.82	0.44
42:PA:273:ALA:HB3	42:PA:375:VAL:HB	2.00	0.44
41:PB:6:HIS:CD2	41:PB:134:GLN:HG2	2.52	0.44
41:PB:41:ASP:C	41:PB:43:GLN:H	2.20	0.44
41:PB:112:LEU:HD22	41:PB:112:LEU:HA	1.73	0.44
41:PB:294:PHE:HB3	41:PB:295:ASP:H	1.67	0.44
42:PC:21:TRP:HZ2	42:PC:65:ALA:HB2	1.83	0.44
42:PC:302:MET:O	42:PC:303:VAL:HB	2.18	0.44
42:PE:96:LYS:HA	42:PE:96:LYS:HD3	1.82	0.44
41:PF:337:ASN:HD22	41:PF:340:TYR:HB2	1.83	0.44
42:PG:109:THR:O	42:PG:111:GLY:N	2.50	0.44
42:PG:274:PRO:HB2	42:PG:371:VAL:HG21	2.00	0.44
41:PH:330:MET:O	41:PH:331:LEU:C	2.54	0.44
42:PI:184:PRO:O	42:PI:185:TYR:C	2.56	0.44
42:PK:210:TYR:HD1	42:PK:210:TYR:HA	1.74	0.44
42:PK:261:PRO:HA	41:PL:394:PHE:HE1	1.82	0.44
41:PL:371:SER:O	41:PL:372:THR:C	2.56	0.44
41:QB:265:PHE:CG	41:QB:378:PHE:HZ	2.35	0.44
41:QF:193:VAL:HA	41:QF:264:HIS:HE1	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:QI:182:VAL:O	42:QI:185:TYR:HB2	2.18	0.44
42:QI:416:GLY:O	42:QI:417:GLU:C	2.55	0.44
41:QL:31:ASP:C	41:QL:33:THR:H	2.20	0.44
41:RD:42:LEU:HD12	41:RD:42:LEU:HA	1.74	0.44
41:RD:80:PRO:HB2	41:RD:81:PHE:H	1.67	0.44
42:RE:30:ILE:HD11	42:RE:61:HIS:HD2	1.83	0.44
42:RE:67:PHE:HB2	42:RE:92:LEU:HD23	1.99	0.44
41:RF:262:ARG:HB3	41:RF:263:LEU:H	1.59	0.44
41:RF:305:PRO:HB3	41:RF:340:TYR:OH	2.18	0.44
41:RJ:107:THR:O	41:RJ:109:GLY:N	2.50	0.44
41:RJ:319:GLY:CA	41:RJ:355:ASP:HA	2.47	0.44
41:RJ:331:LEU:HD22	42:RK:177:VAL:HG22	2.00	0.44
42:RK:248:LEU:H	42:RK:355:ILE:HB	1.83	0.44
42:SC:435:VAL:O	41:SD:391:ARG:NH2	2.51	0.44
41:SH:170:VAL:HG21	41:SH:377:LEU:HD21	2.00	0.44
41:SH:240:LEU:HD13	41:SH:249:ASP:HB2	1.98	0.44
41:SH:323:MET:HE2	41:SH:323:MET:HB3	1.95	0.44
41:SL:108:GLU:O	41:SL:111:GLU:N	2.48	0.44
42:TC:136:LEU:HD11	42:TC:239:THR:HG21	2.00	0.44
41:TD:398:TYR:HB3	41:TD:408:PHE:HZ	1.83	0.44
42:TE:142:GLY:HA3	42:TE:183:GLU:HG3	1.99	0.44
41:TF:257:MET:CE	41:TF:314:ALA:HB2	2.48	0.44
42:TG:105:ARG:HA	42:TG:109:THR:HB	2.00	0.44
41:TH:324:LYS:HZ1	42:TI:221:ARG:CA	2.19	0.44
42:TK:166:LYS:HB2	42:TK:166:LYS:HE2	1.34	0.44
42:TK:254:GLU:H	42:TK:254:GLU:HG2	1.63	0.44
41:TL:311:LEU:HD12	41:TL:342:VAL:HG11	2.00	0.44
41:UF:107:THR:O	41:UF:109:GLY:N	2.51	0.44
41:UF:173:PRO:HB3	41:UF:380:ARG:CZ	2.48	0.44
42:UG:311:LYS:NZ	42:UG:342:GLN:OE1	2.49	0.44
42:UG:387:ALA:HA	42:UG:390:ARG:HG2	1.98	0.44
42:UI:265:ILE:HA	42:UI:432:TYR:CE1	2.53	0.44
41:UJ:74:ASP:HA	41:UJ:77:ARG:HG2	2.00	0.44
41:UJ:287:PRO:HG3	41:UJ:329:GLN:HE22	1.83	0.44
42:UK:112:LYS:HD2	42:UK:112:LYS:HA	1.69	0.44
42:UK:265:ILE:HG23	42:UK:432:TYR:CZ	2.53	0.44
42:UK:347:CYS:HA	41:UL:388:MET:HG2	2.00	0.44
41:UL:46:ARG:HA	41:UL:46:ARG:HD3	1.88	0.44
41:VD:192:LEU:O	41:VD:196:THR:OG1	2.23	0.44
42:VE:98:ASP:O	42:VE:105:ARG:NH2	2.42	0.44
42:VI:56:THR:HG22	42:WI:285:GLN:HE21	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:VK:103:TYR:HD1	42:VK:147:SER:HB2	1.83	0.44
42:VK:161:TYR:HB3	42:VK:164:LYS:HG3	2.00	0.44
41:VL:27:GLU:OE2	41:VL:318:ARG:NH2	2.50	0.44
42:VM:205:ASP:HB3	42:VM:303:VAL:HG23	2.00	0.44
41:WH:193:VAL:HG23	41:WH:265:PHE:HE2	1.83	0.44
41:WJ:100:ASN:HB3	41:WJ:103:LYS:HB2	1.99	0.44
8:2B:102:ARG:NH2	42:AK:431:ASP:OD2	2.51	0.44
19:3L:260:ARG:HB2	19:3L:262:TYR:HE1	1.82	0.44
19:3L:472:VAL:HG11	19:3L:498:VAL:HG12	2.00	0.44
20:3N:10:GLN:HG2	41:KD:74:ASP:OD1	2.17	0.44
20:3N:22:VAL:HG11	41:KD:70:PRO:HB3	2.00	0.44
21:3V:191:LEU:CD2	21:3V:196:ARG:HB2	2.47	0.44
22:3X:95:PHE:HE2	41:AB:59:TYR:HH	1.65	0.44
22:3Y:187:ARG:HH12	41:CD:55:THR:HA	1.83	0.44
24:4G:306:ARG:NH2	42:HI:364:PRO:N	2.66	0.44
25:4J:11:ALA:HB1	25:4J:73:LEU:HD22	1.98	0.44
25:4J:213:CYS:SG	25:4J:216:ARG:NH1	2.85	0.44
25:4J:279:ARG:HA	25:4J:282:VAL:HG12	1.99	0.44
26:4L:162:LYS:HE2	29:4Y:101:LEU:HD23	2.00	0.44
26:4L:202:VAL:O	26:4L:205:THR:HG22	2.18	0.44
27:4Q:134:MET:HB2	27:4Q:134:MET:HE3	1.56	0.44
30:5B:371:GLN:HE21	41:LN:359:ARG:HH21	1.66	0.44
30:5B:373:ASN:HD21	41:LN:217:LEU:HD23	1.82	0.44
32:5O:168:LYS:O	32:5O:169:TYR:C	2.56	0.44
33:5S:12:PHE:HE2	33:5T:126:ILE:HA	1.83	0.44
33:5S:193:ASN:O	33:5S:194:LEU:C	2.56	0.44
33:5T:276:TYR:CE2	33:5T:377:ILE:HG23	2.52	0.44
34:6A:94:TYR:CZ	34:6B:208:ILE:CD1	3.00	0.44
34:6A:156:TRP:HD1	34:6A:300:TRP:CH2	2.35	0.44
34:6C:220:LEU:HA	34:6C:220:LEU:HD12	1.81	0.44
34:6F:166:ALA:HB3	34:6F:315:ARG:HH22	1.83	0.44
34:6L:369:LEU:HA	34:6L:372:ILE:HD12	2.00	0.44
35:6Q:78:ARG:NH1	35:6R:328:GLU:OE2	2.51	0.44
35:6Q:189:LEU:HD21	35:6Q:285:ILE:HD11	2.00	0.44
35:6R:159:ARG:HH21	35:6R:173:GLU:HG2	1.83	0.44
35:6S:388:LEU:HD12	35:6S:388:LEU:HA	1.73	0.44
35:6V:303:ALA:HA	35:6V:306:ARG:HH21	1.82	0.44
36:6Y:47:LYS:HE2	36:6Y:73:SER:O	2.18	0.44
38:7H:58:HIS:CD2	38:7H:64:GLN:HA	2.52	0.44
41:AF:169:VAL:HG22	41:AF:202:ILE:HD11	1.99	0.44
41:AH:163:ILE:HD11	41:AH:251:ARG:HG3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:AI:426:ALA:HA	42:AI:429:GLU:HG3	2.00	0.44
41:AL:85:PHE:O	41:BL:281:TYR:HE2	2.00	0.44
42:BC:168:GLU:OE1	42:BC:194:THR:OG1	2.33	0.44
42:BE:54:SER:OG	42:BE:64:ARG:NH2	2.51	0.44
42:BI:140:SER:O	42:BI:141:PHE:C	2.56	0.44
42:BI:328:VAL:HG21	42:BI:355:ILE:HD11	1.99	0.44
42:BK:218:ASP:N	42:BK:218:ASP:OD1	2.50	0.44
41:CD:261:PRO:O	41:CD:262:ARG:C	2.55	0.44
41:CJ:286:VAL:O	41:CJ:290:THR:HG23	2.17	0.44
42:CK:132:LEU:HD22	42:CK:164:LYS:HZ3	1.83	0.44
41:CL:342:VAL:HG23	41:CL:345:ILE:HG22	2.00	0.44
42:CM:167:LEU:HD22	42:CM:202:PHE:HZ	1.83	0.44
41:DB:324:LYS:HZ1	42:DC:210:TYR:CB	2.30	0.44
42:DC:31:GLN:HG3	42:DC:33:ASP:OD1	2.18	0.44
42:DC:95:GLY:O	42:DC:96:LYS:HD3	2.16	0.44
41:DH:7:LEU:HD21	41:DH:151:LEU:HD13	1.99	0.44
41:DH:227:HIS:O	41:DH:232:THR:HG23	2.18	0.44
42:DI:320:ARG:HD3	42:DI:360:PRO:HG3	1.99	0.44
41:DJ:253:LEU:HA	41:DJ:350:LYS:HD3	2.00	0.44
41:DJ:318:ARG:HG2	41:DJ:357:PRO:HA	1.99	0.44
41:DJ:404:ASP:O	41:DJ:406:MET:N	2.51	0.44
42:DK:302:MET:HE3	42:DK:302:MET:HB3	1.73	0.44
41:DL:47:ILE:HG12	41:DL:51:TYR:HB2	2.00	0.44
42:DM:182:VAL:O	42:DM:185:TYR:HB3	2.17	0.44
41:ED:253:LEU:HD22	41:ED:368:ILE:HD12	1.98	0.44
41:ED:345:ILE:O	41:ED:348:ASN:ND2	2.47	0.44
42:EE:32:PRO:O	42:EE:33:ASP:C	2.56	0.44
42:EE:54:SER:OG	42:EE:55:GLU:N	2.50	0.44
42:EE:185:TYR:O	42:EE:186:ASN:C	2.55	0.44
42:EI:321:GLY:HA3	42:EI:373:ARG:HA	1.99	0.44
41:EJ:228:LEU:O	41:EJ:300:MET:HE1	2.17	0.44
41:EJ:323:MET:HA	41:EJ:326:VAL:HG22	1.98	0.44
42:EK:5:ILE:HD11	42:EK:126:ALA:HB2	1.99	0.44
42:EK:272:TYR:HB3	42:EK:275:VAL:HG23	1.99	0.44
41:EL:113:VAL:HG22	41:EL:117:LEU:HD23	2.00	0.44
41:EL:257:MET:HE3	41:EL:314:ALA:HB2	2.00	0.44
42:EM:52:PHE:HD2	42:EM:243:ARG:HD2	1.83	0.44
42:EM:221:ARG:N	42:EM:222:PRO:CD	2.81	0.44
42:FC:371:VAL:HG12	42:FC:373:ARG:H	1.82	0.44
41:FD:286:VAL:N	41:FD:287:PRO:HD2	2.32	0.44
42:FE:195:LEU:HA	42:FE:266:HIS:CE1	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:FG:83:TYR:HB3	42:FG:86:LEU:HB3	1.98	0.44
41:FH:117:LEU:HA	41:FH:120:VAL:HB	2.00	0.44
41:FJ:52:ASN:HD21	41:FJ:126:SER:HB2	1.83	0.44
41:FJ:255:VAL:HG11	42:FK:100:ALA:HB1	1.99	0.44
42:FK:171:ILE:N	42:FK:204:VAL:O	2.51	0.44
41:FL:34:GLY:HA3	41:FL:58:LYS:CD	2.43	0.44
41:FL:232:THR:HG21	41:FL:268:PRO:HB3	1.98	0.44
41:FL:290:THR:HA	41:FL:293:MET:HB3	2.00	0.44
41:GD:226:ASN:HA	41:GD:229:VAL:HG13	2.00	0.44
42:GE:388:TRP:CD1	42:GE:391:LEU:HD12	2.53	0.44
42:GE:395:PHE:CD2	42:GE:422:ARG:HD3	2.53	0.44
42:GI:109:THR:HG22	42:GI:110:ILE:H	1.83	0.44
41:GJ:110:ALA:HA	41:GJ:113:VAL:HG12	2.00	0.44
41:GJ:148:GLY:O	41:GJ:152:ILE:HB	2.18	0.44
41:GJ:310:TYR:HB2	41:GJ:341:PHE:CD1	2.53	0.44
41:GJ:322:SER:HA	42:GK:223:THR:OG1	2.18	0.44
42:GK:358:GLN:NE2	42:GK:359:PRO:O	2.51	0.44
42:HC:75:ILE:H	42:HC:75:ILE:HG12	1.59	0.44
42:HG:217:LEU:HD12	42:HG:217:LEU:HA	1.70	0.44
42:HG:311:LYS:HB3	42:HG:344:VAL:HG13	1.99	0.44
42:HI:4:CYS:SG	42:HI:133:GLN:NE2	2.91	0.44
42:HI:60:LYS:HB2	42:II:282:TYR:CE1	2.53	0.44
41:HJ:148:GLY:O	41:HJ:152:ILE:HG23	2.17	0.44
42:HK:121:ARG:HH22	42:HK:124:LYS:HD2	1.82	0.44
41:HL:310:TYR:HA	41:HL:371:SER:HA	1.99	0.44
42:HM:189:LEU:HD13	42:HM:421:ALA:HB2	2.00	0.44
42:HM:402:ARG:HD3	42:HM:402:ARG:HA	1.68	0.44
41:IH:183:TYR:OH	41:IH:388:MET:O	2.34	0.44
41:IN:107:THR:OG1	41:IN:108:GLU:OE1	2.27	0.44
42:JC:237:SER:HA	42:JC:320:ARG:HH11	1.83	0.44
42:JG:117:LEU:O	42:JG:121:ARG:HG2	2.18	0.44
42:JG:242:LEU:HD12	42:JG:251:ASP:HB2	1.99	0.44
41:JJ:141:GLY:O	41:JJ:145:SER:OG	2.32	0.44
42:JK:256:GLN:HA	42:JK:260:VAL:CG1	2.48	0.44
41:KF:403:MET:HB2	41:KF:407:GLU:OE2	2.17	0.44
42:KG:317:LEU:O	42:KG:354:GLY:N	2.51	0.44
42:KM:273:ALA:HB3	42:KM:274:PRO:HD3	1.98	0.44
41:LD:202:ILE:HG23	41:LD:268:PRO:HG2	1.99	0.44
42:LE:151:SER:HA	42:LE:193:THR:HG21	2.00	0.44
42:LE:174:ALA:HB1	42:LE:207:GLU:HG3	1.99	0.44
42:LK:169:PHE:CE1	42:LK:235:VAL:HG22	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:LN:141:GLY:O	41:LN:145:SER:OG	2.26	0.44
42:MC:426:ALA:O	42:MC:430:LYS:HG2	2.17	0.44
41:MD:383:GLU:HG3	41:MD:384:GLN:N	2.32	0.44
41:MF:160:PRO:HB2	41:MF:161:ASP:H	1.64	0.44
42:MG:123:ARG:HA	42:MG:123:ARG:HD3	1.59	0.44
42:MI:105:ARG:HG2	42:MI:411:GLU:HG2	1.99	0.44
41:ML:151:LEU:HD23	41:ML:151:LEU:HA	1.74	0.44
41:ML:190:HIS:CG	41:ML:414:ASN:HD21	2.35	0.44
42:MM:53:PHE:HB3	42:MM:61:HIS:HB3	1.99	0.44
41:MN:309:ARG:H	41:MN:372:THR:HG1	1.64	0.44
41:MN:372:THR:O	41:MN:374:ILE:N	2.50	0.44
42:NA:336:LYS:HA	42:NA:343:PHE:HE1	1.83	0.44
42:NA:370:LYS:HA	42:NA:370:LYS:HD2	1.72	0.44
41:NB:411:ALA:HA	41:NB:414:ASN:HD21	1.83	0.44
42:NC:115:ILE:O	42:NC:119:LEU:HB2	2.17	0.44
42:NC:122:ILE:HD12	42:NC:157:LEU:HD11	1.99	0.44
42:NC:182:VAL:O	42:NC:183:GLU:C	2.57	0.44
42:NC:430:LYS:HA	42:NC:430:LYS:HD2	1.66	0.44
41:ND:282:ARG:H	41:ND:282:ARG:HG3	1.46	0.44
42:NE:135:PHE:HB2	42:NE:166:LYS:HG3	1.98	0.44
42:NE:246:GLY:HA2	42:NE:357:TYR:CD2	2.53	0.44
41:NF:266:PHE:HB3	41:NF:368:ILE:HG13	2.00	0.44
42:NG:352:LYS:HB3	42:NG:352:LYS:HE2	1.72	0.44
42:NI:88:HIS:HB2	42:NI:91:GLN:HB3	1.98	0.44
41:NJ:116:VAL:HG21	41:NJ:151:LEU:HD11	2.00	0.44
41:NL:274:THR:HG21	41:NL:282:ARG:HH12	1.82	0.44
41:OB:19:LYS:HA	41:OB:19:LYS:HD3	1.80	0.44
41:OB:183:TYR:O	41:OB:184:ASN:C	2.54	0.44
42:OC:261:PRO:HB3	41:OD:394:PHE:CD1	2.53	0.44
41:OD:85:PHE:HB2	41:OD:90:PHE:CZ	2.52	0.44
41:OF:313:VAL:HG12	41:OF:369:GLY:HA2	2.00	0.44
42:OI:205:ASP:HB2	42:OI:303:VAL:HA	1.99	0.44
42:OI:336:LYS:O	42:OI:339:ARG:NH2	2.51	0.44
41:OL:317:PHE:HB3	41:OL:321:MET:HE2	2.00	0.44
42:PC:255:PHE:CE2	42:PC:318:LEU:HD11	2.53	0.44
42:PC:262:TYR:CZ	41:PD:393:ALA:HB2	2.53	0.44
42:PE:19:ALA:HB1	42:PE:229:ARG:HG2	2.00	0.44
41:PF:20:PHE:HA	41:PF:230:SER:HB3	1.99	0.44
42:PG:36:MET:SD	42:PG:37:PRO:HD2	2.58	0.44
42:PG:105:ARG:HA	42:PG:109:THR:HG23	1.99	0.44
42:PG:121:ARG:O	42:PG:124:LYS:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:PH:12:CYS:HB3	41:PH:138:SER:CB	2.47	0.44
41:PH:183:TYR:HD2	41:PH:398:TYR:CE1	2.36	0.44
42:PI:172:TYR:HE1	42:PI:391:LEU:HD22	1.83	0.44
42:PI:196:GLU:O	42:PI:198:SER:N	2.49	0.44
42:PI:230:LEU:C	42:PI:232:GLY:H	2.20	0.44
42:PI:287:SER:HA	42:PI:373:ARG:NH1	2.33	0.44
42:PK:27:GLU:HG2	42:PK:244:PHE:HZ	1.82	0.44
42:PK:81:GLY:O	42:PK:82:THR:C	2.56	0.44
42:PK:276:ILE:HD12	42:PK:276:ILE:HA	1.65	0.44
41:PL:108:GLU:O	41:PL:111:GLU:N	2.51	0.44
41:PL:395:LEU:HA	41:PL:398:TYR:HB2	2.00	0.44
42:QC:8:HIS:CD2	42:QC:21:TRP:HE1	2.35	0.44
42:QC:262:TYR:HE1	41:QD:393:ALA:HA	1.83	0.44
41:QD:200:TYR:HB3	41:QD:268:PRO:HG3	2.00	0.44
41:QF:189:VAL:HA	41:QF:192:LEU:HB2	2.00	0.44
42:QK:122:ILE:H	42:QK:122:ILE:HG12	1.65	0.44
41:RB:65:LEU:HD13	41:RB:90:PHE:CE2	2.52	0.44
41:RB:252:LYS:HE2	41:RB:350:LYS:HE3	1.99	0.44
42:RG:2:ARG:NH1	42:RG:242:LEU:O	2.50	0.44
41:RJ:222:TYR:HE1	41:RJ:225:LEU:HD22	1.83	0.44
42:RK:228:ASN:OD1	45:RK:501:GTP:N1	2.47	0.44
42:SC:129:CYS:SG	42:SC:130:THR:N	2.84	0.44
41:SD:17:GLY:HA2	41:SD:20:PHE:HB3	1.99	0.44
41:SD:139:LEU:N	41:SD:169:VAL:O	2.45	0.44
42:SE:102:ASN:O	42:SE:105:ARG:N	2.50	0.44
42:SE:195:LEU:HD22	42:SE:195:LEU:HA	1.78	0.44
41:SH:200:TYR:OH	41:SH:368:ILE:HG12	2.18	0.44
42:SI:110:ILE:HD12	42:SI:110:ILE:HA	1.82	0.44
42:SI:353:VAL:HB	41:SJ:177:ASP:CB	2.47	0.44
41:SJ:310:TYR:HD1	41:SJ:371:SER:HB2	1.83	0.44
42:SK:203:MET:HE1	42:SK:267:PHE:HB3	2.00	0.44
42:SK:321:GLY:N	42:SK:356:ASN:O	2.51	0.44
41:SL:375:GLN:O	41:SL:376:GLU:C	2.55	0.44
42:SM:217:LEU:HD21	42:SM:368:LEU:HA	2.00	0.44
42:SM:261:PRO:HG2	42:SM:265:ILE:HD12	1.99	0.44
42:TC:198:SER:OG	42:TC:266:HIS:NE2	2.50	0.44
41:TD:252:LYS:NZ	45:TE:501:GTP:O3G	2.38	0.44
42:TG:7:VAL:HB	42:TG:137:ILE:HG13	1.99	0.44
42:UC:76:ASP:O	42:UC:79:ARG:HG2	2.17	0.44
42:UC:223:THR:H	42:UC:226:ASN:ND2	2.15	0.44
41:UD:287:PRO:HA	41:UD:329:GLN:NE2	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:UH:42:LEU:HD23	41:UH:356:ILE:HD11	2.00	0.44
41:UH:273:LEU:HD23	41:UH:273:LEU:HA	1.85	0.44
42:UI:385:ALA:HA	42:UI:388:TRP:CZ2	2.53	0.44
42:UK:141:PHE:HB2	42:UK:173:PRO:HD3	1.99	0.44
42:UK:336:LYS:HG2	42:UK:351:PHE:HE2	1.82	0.44
42:VE:7:VAL:HG21	42:VE:153:LEU:HD11	1.98	0.44
42:VG:231:ILE:HA	42:VG:234:ILE:HD12	2.00	0.44
41:VJ:47:ILE:HG21	41:VJ:59:TYR:CZ	2.53	0.44
41:VJ:287:PRO:HG3	41:VJ:329:GLN:NE2	2.32	0.44
42:VK:401:LYS:H	42:VK:401:LYS:HG2	1.58	0.44
41:WF:6:HIS:CG	41:WF:134:GLN:HE21	2.36	0.44
41:WF:253:LEU:O	41:WF:257:MET:HB2	2.18	0.44
41:WF:293:MET:HG2	41:WF:367:PHE:HB2	1.99	0.44
41:WH:22:GLU:HG2	41:WH:81:PHE:HB2	1.98	0.44
41:WJ:77:ARG:HD3	41:WJ:90:PHE:CZ	2.53	0.44
42:WK:3:GLU:N	42:WK:3:GLU:OE2	2.50	0.44
42:WK:93:ILE:HD11	42:WK:121:ARG:HG3	2.00	0.44
9:2D:575:ARG:NH2	41:IN:359:ARG:N	2.66	0.44
11:2M:422:ARG:NH1	42:UK:370:LYS:O	2.51	0.44
14:2X:221:SER:N	41:MJ:194:GLU:O	2.50	0.44
15:3A:93:THR:OG1	42:JK:77:GLU:HG2	2.18	0.44
19:3J:322:GLU:OE1	19:3J:327:LYS:NZ	2.36	0.44
19:3L:232:LEU:HD13	42:CK:372:GLN:OE1	2.18	0.44
20:3P:64:VAL:HG11	42:AI:43:GLY:H	1.83	0.44
23:4D:105:ASP:N	23:4D:105:ASP:OD1	2.51	0.44
24:4G:328:GLU:O	24:4G:332:ILE:HD12	2.18	0.44
25:4J:176:LEU:HA	25:4J:192:ILE:HG22	1.99	0.44
32:5N:381:ASN:O	32:5N:385:ILE:HG13	2.17	0.44
32:5O:272:LYS:HG3	32:5O:383:ILE:HG12	1.99	0.44
33:5R:182:THR:OG1	33:5S:328:GLU:HG2	2.17	0.44
33:5V:252:ASN:HD22	34:6A:320:LYS:CD	2.30	0.44
33:5V:281:TRP:CE3	34:6A:144:GLN:HG3	2.53	0.44
33:5W:130:LYS:HZ2	33:5X:11:ARG:HE	1.66	0.44
33:5X:32:ARG:HE	33:5X:32:ARG:HB2	1.19	0.44
33:5X:355:LYS:HE2	33:5Y:42:ALA:HA	1.99	0.44
34:6K:120:LEU:HD13	34:6L:444:THR:HG21	2.00	0.44
36:6Y:73:SER:O	36:6Y:75:GLN:N	2.51	0.44
41:AB:191:GLN:HB2	41:AB:195:ASN:OD1	2.18	0.44
42:AC:261:PRO:HD2	42:AC:265:ILE:HB	2.00	0.44
41:AH:7:LEU:HD12	41:AH:135:LEU:HB2	1.99	0.44
41:AH:348:ASN:OD1	41:AH:348:ASN:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:AI:56:THR:OG1	42:AI:57:GLY:N	2.49	0.44
42:AK:56:THR:OG1	42:AK:57:GLY:N	2.51	0.44
42:AK:78:VAL:HG21	42:AK:92:LEU:HD22	2.00	0.44
41:AL:128:ASP:OD1	41:AL:128:ASP:N	2.49	0.44
41:AL:152:ILE:O	41:AL:156:ARG:HB2	2.18	0.44
41:BB:74:ASP:OD1	41:BB:74:ASP:N	2.50	0.44
41:BB:87:PRO:HD3	41:CB:281:TYR:CD2	2.52	0.44
41:BD:44:LEU:HD12	41:BD:47:ILE:HD13	2.00	0.44
41:BD:336:LYS:HA	41:BD:336:LYS:HD2	1.61	0.44
41:BD:363:MET:HE3	41:BD:363:MET:HB3	1.84	0.44
41:BF:375:GLN:NE2	41:BF:426:GLN:OE1	2.50	0.44
42:BG:79:ARG:NH2	42:BG:92:LEU:O	2.46	0.44
41:BH:314:ALA:HB3	41:BH:368:ILE:HG23	1.99	0.44
42:BI:33:ASP:OD1	42:BI:33:ASP:N	2.51	0.44
42:BI:212:ILE:HD13	42:BI:302:MET:HG3	1.99	0.44
42:BI:236:SER:O	42:BI:240:ALA:HB2	2.18	0.44
42:BI:400:ALA:HB3	42:BI:401:LYS:HZ2	1.83	0.44
42:BI:413:MET:HE2	42:BI:413:MET:HB3	1.77	0.44
41:CB:290:THR:HA	41:CB:293:MET:HB2	2.00	0.44
42:CC:347:CYS:SG	42:CC:350:GLY:HA2	2.58	0.44
41:CD:386:THR:OG1	41:CD:387:ALA:N	2.51	0.44
42:CG:136:LEU:HD23	42:CG:169:PHE:CE2	2.46	0.44
42:CG:261:PRO:HB2	42:CG:262:TYR:H	1.57	0.44
41:CH:86:ARG:HG2	41:CH:88:ASP:H	1.82	0.44
41:CH:375:GLN:HB2	41:CH:419:VAL:HG23	2.00	0.44
42:CI:206:ASN:OD1	45:CI:501:GTP:O2'	2.22	0.44
41:CJ:246:LEU:HD12	41:CJ:246:LEU:HA	1.77	0.44
42:DC:290:GLU:H	42:DC:290:GLU:HG2	1.63	0.44
42:DC:312:TYR:HE2	42:DC:341:ILE:HB	1.83	0.44
42:DG:372:GLN:N	42:DG:372:GLN:OE1	2.51	0.44
41:DH:86:ARG:HH12	41:EH:282:ARG:HD2	1.82	0.44
41:DH:253:LEU:H	41:DH:253:LEU:HG	1.59	0.44
42:DI:137:ILE:HB	42:DI:168:GLU:HB2	2.00	0.44
41:DJ:117:LEU:HD11	41:DJ:154:LYS:HG2	2.00	0.44
41:DJ:151:LEU:O	41:DJ:152:ILE:C	2.56	0.44
41:DJ:195:ASN:HD22	41:DJ:195:ASN:HA	1.66	0.44
42:DK:2:ARG:HA	42:DK:133:GLN:HG2	2.00	0.44
42:DK:116:ASP:N	42:DK:116:ASP:OD2	2.51	0.44
42:DK:136:LEU:HD23	42:DK:167:LEU:HB2	2.00	0.44
42:DM:79:ARG:O	42:DM:84:ARG:NE	2.51	0.44
42:DM:217:LEU:HD21	42:DM:367:ASP:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DM:228:ASN:O	42:DM:231:ILE:HG22	2.16	0.44
42:EC:118:VAL:HG21	42:EC:149:PHE:HZ	1.82	0.44
41:ED:12:CYS:O	41:ED:16:ILE:HG13	2.18	0.44
41:ED:49:VAL:HG11	41:ED:241:ARG:HG2	2.00	0.44
42:EE:17:GLY:HA3	42:EE:67:PHE:CE1	2.53	0.44
42:EE:28:HIS:NE2	42:EE:243:ARG:HD2	2.33	0.44
42:EE:141:PHE:HD1	42:EE:141:PHE:HA	1.65	0.44
42:EE:255:PHE:CE2	42:EE:318:LEU:HD11	2.53	0.44
41:EF:22:GLU:HA	41:EF:25:SER:HB2	2.00	0.44
42:EG:126:ALA:HA	42:EG:129:CYS:SG	2.58	0.44
41:EH:198:GLU:HG3	41:EH:266:PHE:HE1	1.83	0.44
42:EI:53:PHE:O	42:EI:64:ARG:NH1	2.51	0.44
42:EI:363:VAL:HG13	42:EI:366:GLY:HA3	2.00	0.44
41:EJ:242:PHE:CG	41:EJ:356:ILE:HG21	2.53	0.44
41:EJ:294:PHE:HD2	41:EJ:333:VAL:HG11	1.82	0.44
42:FE:306:ASP:HB3	42:FE:309:HIS:CE1	2.52	0.44
41:FF:95:SER:HB3	41:FF:108:GLU:HG2	1.99	0.44
41:FF:347:ASN:N	41:FF:347:ASN:OD1	2.49	0.44
41:FH:253:LEU:HD12	41:FH:350:LYS:HD3	1.99	0.44
41:FH:317:PHE:HB2	41:FH:353:VAL:HG22	1.99	0.44
41:FH:386:THR:HG22	41:FH:412:GLU:CD	2.38	0.44
42:FI:251:ASP:HB2	42:FI:254:GLU:HG2	1.99	0.44
42:FM:174:ALA:HA	42:FM:175:PRO:HD2	1.89	0.44
41:GD:100:ASN:O	41:GD:101:TRP:C	2.57	0.44
41:GD:107:THR:OG1	41:GD:108:GLU:N	2.50	0.44
41:GD:188:SER:OG	41:GD:189:VAL:N	2.51	0.44
41:GF:208:TYR:CE1	41:GF:225:LEU:HD11	2.53	0.44
42:GG:10:GLY:HA2	42:GG:145:THR:HG23	2.00	0.44
42:GK:269:LEU:HD21	42:GK:303:VAL:HG21	2.00	0.44
41:GL:110:ALA:HA	41:GL:113:VAL:HG12	2.00	0.44
42:GM:173:PRO:HB3	42:GM:183:GLU:CD	2.39	0.44
42:GM:248:LEU:H	42:GM:248:LEU:HG	1.57	0.44
42:HC:229:ARG:HG2	42:HC:363:VAL:HG11	2.00	0.44
42:HC:250:VAL:HG13	42:HC:254:GLU:HB2	2.00	0.44
42:HC:292:THR:C	42:HC:294:ALA:H	2.21	0.44
42:HE:63:PRO:HG3	42:HE:86:LEU:HG	1.98	0.44
41:HF:246:LEU:HB2	41:HF:353:VAL:H	1.83	0.44
42:HG:262:TYR:HB3	42:HG:263:PRO:HD2	2.00	0.44
41:HJ:108:GLU:O	41:HJ:109:GLY:C	2.57	0.44
41:HJ:237:THR:O	41:HJ:241:ARG:HG3	2.17	0.44
42:HM:206:ASN:HD22	42:HM:206:ASN:HA	1.59	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:ID:28:HIS:HD1	41:ID:47:ILE:HG13	1.83	0.44
41:ID:207:LEU:HD21	41:ID:229:VAL:HG23	1.99	0.44
41:IF:221:THR:HG23	41:IF:223:GLY:H	1.82	0.44
41:IF:247:ASN:O	41:IF:252:LYS:NZ	2.48	0.44
42:IK:359:PRO:HA	42:IK:360:PRO:HD3	1.91	0.44
41:IN:426:GLN:O	41:IN:427:ASP:C	2.56	0.44
42:JI:100:ALA:N	45:JI:501:GTP:O2G	2.47	0.44
41:JJ:54:ALA:HA	41:MJ:283:ALA:HB2	1.99	0.44
41:JJ:378:PHE:HA	41:JJ:381:ILE:HG22	1.99	0.44
42:JK:153:LEU:O	42:JK:154:MET:C	2.56	0.44
42:KC:139:HIS:CD2	42:KC:150:THR:HG21	2.53	0.44
41:KD:255:VAL:HG23	42:KE:407:TRP:CG	2.53	0.44
41:KH:139:LEU:HB2	41:KH:171:PRO:HD3	2.00	0.44
41:KJ:117:LEU:HA	41:KJ:120:VAL:HG22	1.98	0.44
41:KL:404:ASP:OD1	41:KL:405:GLU:N	2.50	0.44
42:LE:171:ILE:HD13	42:LE:204:VAL:HG23	2.00	0.44
41:MD:189:VAL:O	41:MD:193:VAL:HG13	2.18	0.44
42:MI:79:ARG:NH2	42:MI:92:LEU:O	2.51	0.44
41:MJ:255:VAL:HG12	42:MK:407:TRP:CZ3	2.52	0.44
42:MK:166:LYS:H	42:MK:199:ASP:HB2	1.83	0.44
42:MK:219:ILE:HD13	42:MK:367:ASP:HB2	1.99	0.44
42:MK:231:ILE:O	42:MK:235:VAL:HG23	2.18	0.44
41:ML:401:GLU:N	41:ML:401:GLU:OE1	2.51	0.44
42:MM:141:PHE:CD2	42:MM:173:PRO:HD3	2.53	0.44
41:MN:151:LEU:HD13	41:MN:151:LEU:HA	1.74	0.44
41:MN:271:ALA:HB2	41:MN:365:ALA:HB3	1.99	0.44
41:MN:313:VAL:HG21	41:MN:341:PHE:HE2	1.83	0.44
41:NB:174:LYS:O	41:NB:175:VAL:C	2.56	0.44
42:NE:7:VAL:HB	42:NE:137:ILE:HG12	1.98	0.44
41:NF:32:PRO:HD3	41:NF:81:PHE:CZ	2.53	0.44
42:NI:338:LYS:HA	42:NI:338:LYS:HD2	1.53	0.44
41:OB:101:TRP:CD2	41:OB:187:LEU:HB3	2.52	0.44
41:OB:165:ASN:HA	41:OB:198:GLU:HB2	2.00	0.44
42:OC:10:GLY:HA2	42:OC:145:THR:HG23	2.00	0.44
42:OE:7:VAL:HG22	42:OE:137:ILE:HA	1.99	0.44
41:OF:139:LEU:HA	41:OF:145:SER:HB3	1.98	0.44
42:OG:114:LEU:O	42:OG:115:ILE:C	2.57	0.44
42:OG:217:LEU:HB3	42:OG:367:ASP:HB2	2.00	0.44
42:OG:401:LYS:H	42:OG:401:LYS:HZ2	1.66	0.44
41:OH:392:LYS:HA	41:OH:392:LYS:HD3	1.90	0.44
42:OI:312:TYR:O	42:OI:344:VAL:HG13	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:OL:12:CYS:SG	41:OL:138:SER:HB2	2.58	0.44
42:PA:289:ALA:O	42:PA:293:ASN:HB2	2.18	0.44
42:PA:368:LEU:O	42:PA:369:ALA:C	2.55	0.44
41:PB:145:SER:O	41:PB:146:GLY:C	2.56	0.44
41:PB:363:MET:HE3	41:PB:363:MET:HB3	1.62	0.44
41:PD:6:HIS:HA	41:PD:134:GLN:O	2.17	0.44
41:PD:350:LYS:HA	42:PE:179:THR:O	2.18	0.44
41:PD:392:LYS:HE3	41:PD:392:LYS:HB3	1.37	0.44
42:PE:246:GLY:HA3	42:PE:356:ASN:HA	1.99	0.44
42:PE:321:GLY:H	42:PE:358:GLN:H	1.65	0.44
41:PF:165:ASN:HA	41:PF:198:GLU:HB2	1.99	0.44
42:PG:154:MET:HE2	42:PG:154:MET:HB2	1.72	0.44
42:PG:254:GLU:O	42:PG:255:PHE:C	2.56	0.44
42:PG:320:ARG:HG2	42:PG:374:ALA:HB3	2.00	0.44
42:PI:82:THR:OG1	42:PI:83:TYR:N	2.49	0.44
42:PI:346:TRP:CZ2	42:PI:435:VAL:HG13	2.52	0.44
41:PL:215:LEU:O	41:PL:216:LYS:C	2.56	0.44
42:QE:12:ALA:O	42:QE:15:GLN:HB2	2.18	0.44
42:QE:234:ILE:O	42:QE:238:ILE:HG12	2.18	0.44
41:QH:22:GLU:O	41:QH:23:VAL:C	2.56	0.44
41:QH:245:GLN:O	41:QH:246:LEU:C	2.56	0.44
42:QI:248:LEU:HD12	42:QI:248:LEU:HA	1.77	0.44
42:QI:376:CYS:O	42:QI:378:LEU:HG	2.18	0.44
41:QL:151:LEU:HD22	41:QL:151:LEU:HA	1.62	0.44
41:QL:198:GLU:HG2	41:QL:266:PHE:CE2	2.53	0.44
41:QL:239:CYS:HB3	41:QL:247:ASN:HB3	1.98	0.44
42:RC:262:TYR:HE2	42:RC:435:VAL:HG23	1.83	0.44
41:RD:4:ILE:HB	41:RD:50:TYR:CE1	2.53	0.44
41:RF:427:ASP:O	41:RF:428:ALA:C	2.56	0.44
41:RJ:261:PRO:HD3	42:RK:406:HIS:ND1	2.33	0.44
41:SD:31:ASP:OD1	41:SD:35:THR:N	2.51	0.44
41:SD:58:LYS:HE3	41:TD:280:GLN:HG2	1.99	0.44
42:SE:395:PHE:CD1	42:SE:422:ARG:HD3	2.53	0.44
41:SF:9:ALA:HA	41:SF:66:VAL:O	2.18	0.44
41:SF:324:LYS:HA	42:SG:210:TYR:CE2	2.53	0.44
42:SG:66:VAL:HG12	42:SG:68:VAL:HG23	2.00	0.44
42:SG:141:PHE:HB2	42:SG:171:ILE:O	2.18	0.44
41:SH:162:ARG:NH2	41:SH:251:ARG:HH12	2.15	0.44
41:SH:271:ALA:HB2	41:SH:293:MET:HG3	2.00	0.44
42:SI:430:LYS:HE2	42:SI:430:LYS:HB2	1.85	0.44
41:SJ:181:GLU:HG3	41:SJ:182:PRO:HD3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:SK:9:VAL:HG12	42:SK:145:THR:O	2.18	0.44
42:SK:328:VAL:HG21	42:SK:355:ILE:HD11	2.00	0.44
41:SL:7:LEU:HG	41:SL:64:VAL:HG13	2.00	0.44
41:SL:296:ALA:O	41:SL:297:LYS:C	2.55	0.44
42:SM:312:TYR:N	42:SM:342:GLN:O	2.51	0.44
42:TE:326:LYS:HD3	41:TF:212:PHE:HZ	1.82	0.44
42:TE:388:TRP:HZ3	42:TE:428:LEU:HB3	1.82	0.44
41:TF:9:ALA:HB3	41:TF:137:HIS:CD2	2.53	0.44
42:TI:298:PRO:HG3	42:TI:308:ARG:HH22	1.83	0.44
42:TK:167:LEU:HD23	42:TK:202:PHE:HE2	1.83	0.44
42:TM:143:GLY:O	42:TM:147:SER:N	2.50	0.44
42:UC:339:ARG:HD3	42:UC:339:ARG:HA	1.83	0.44
41:UD:173:PRO:HB3	41:UD:380:ARG:CZ	2.48	0.44
41:UD:210:ILE:H	41:UD:210:ILE:HG13	1.69	0.44
41:UJ:87:PRO:HD3	41:VJ:281:TYR:CD1	2.52	0.44
41:UJ:295:ASP:OD2	41:UJ:297:LYS:NZ	2.37	0.44
42:UK:234:ILE:HD11	42:UK:272:TYR:HB2	1.99	0.44
42:VG:214:ARG:HH21	42:VG:215:ARG:NH1	2.11	0.44
42:VG:279:GLU:OE2	42:VG:279:GLU:N	2.43	0.44
42:VG:316:CYS:SG	42:VG:378:LEU:HB2	2.57	0.44
41:VH:128:ASP:OD1	41:VH:128:ASP:N	2.51	0.44
41:VJ:2:ARG:HB3	41:VJ:131:GLN:HB2	1.99	0.44
41:WD:346:PRO:HG2	42:WE:394:LYS:HB3	2.00	0.44
41:WH:137:HIS:HE1	41:WH:166:THR:HG23	1.82	0.44
42:WI:313:MET:HE1	42:WI:435:VAL:HG13	2.00	0.44
42:WK:213:CYS:HA	42:WK:217:LEU:HB2	1.98	0.44
8:2A:84:LYS:CD	27:4R:254:CYS:HA	2.44	0.43
9:2D:573:ILE:HD13	41:IN:270:PHE:HE1	1.78	0.43
11:2L:252:ARG:NH2	42:UE:372:GLN:OE1	2.38	0.43
13:2T:398:LYS:HE2	42:FK:58:ALA:HB2	1.99	0.43
19:3J:465:LYS:HG3	41:ED:78:SER:CB	2.47	0.43
19:3K:519:ASN:O	19:3K:521:ALA:N	2.51	0.43
20:3Q:491:GLU:HG3	20:3Q:492:GLU:H	1.82	0.43
24:4G:234:ARG:O	24:4G:238:MET:N	2.49	0.43
25:4J:122:LYS:HG3	25:4J:162:GLU:HG3	2.00	0.43
27:4R:215:GLN:O	27:4R:216:GLN:C	2.56	0.43
32:5O:92:LEU:O	32:5O:95:GLN:HB3	2.18	0.43
33:5W:267:LYS:NZ	34:6B:305:ASP:OD2	2.51	0.43
34:6B:412:CYS:C	34:6B:414:ASP:H	2.20	0.43
34:6F:202:ARG:NH1	34:6F:216:GLU:OE1	2.51	0.43
34:6K:61:ASN:HB2	34:6K:62:TRP:CE3	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:6V:303:ALA:HA	35:6V:306:ARG:HE	1.82	0.43
37:7C:165:GLY:H	41:TJ:306:ARG:HE	1.65	0.43
41:AJ:67:ASP:OD1	41:AJ:68:LEU:N	2.50	0.43
41:AJ:310:TYR:HA	41:AJ:371:SER:HA	1.98	0.43
41:BB:3:GLU:HA	41:BB:49:VAL:HA	2.00	0.43
42:BI:112:LYS:HA	42:BI:112:LYS:HD2	1.92	0.43
42:BI:183:GLU:H	42:BI:184:PRO:CD	2.31	0.43
42:BK:261:PRO:HA	41:BL:394:PHE:CD1	2.53	0.43
41:BL:207:LEU:HD13	41:BL:225:LEU:HB2	1.99	0.43
41:BL:372:THR:HG22	41:BL:375:GLN:NE2	2.33	0.43
42:CC:28:HIS:O	42:CC:29:GLY:C	2.56	0.43
42:CC:31:GLN:C	42:CC:33:ASP:H	2.22	0.43
42:CC:241:SER:O	42:CC:243:ARG:N	2.51	0.43
42:CC:390:ARG:HE	42:CC:390:ARG:HB2	1.75	0.43
41:CD:18:ALA:HB2	41:CD:76:VAL:HG12	1.99	0.43
41:CD:228:LEU:HA	41:CD:228:LEU:HD23	1.85	0.43
42:CE:326:LYS:HG2	41:CF:220:PRO:HD2	1.98	0.43
42:CE:425:MET:O	42:CE:429:GLU:HG2	2.18	0.43
41:CF:286:VAL:N	41:CF:287:PRO:HD2	2.34	0.43
42:CK:319:TYR:HB2	42:CK:355:ILE:HD13	2.01	0.43
41:CL:133:PHE:N	41:CL:163:ILE:O	2.47	0.43
41:DB:221:THR:OG1	41:DB:222:TYR:N	2.51	0.43
41:DD:257:MET:HE1	41:DD:314:ALA:H	1.83	0.43
41:DF:12:CYS:HB3	41:DF:138:SER:HB3	1.99	0.43
42:DG:245:ASP:OD2	42:DG:246:GLY:N	2.50	0.43
42:DI:49:PHE:HB2	42:DI:53:PHE:HB2	2.00	0.43
42:DI:123:ARG:O	42:DI:127:ASP:N	2.51	0.43
41:DJ:54:ALA:CB	41:EJ:280:GLN:HE21	2.30	0.43
41:DJ:152:ILE:HG22	41:DJ:195:ASN:HB3	2.00	0.43
41:DJ:162:ARG:HD2	41:DJ:162:ARG:H	1.82	0.43
41:DJ:344:TRP:HB2	42:DK:401:LYS:HG3	2.00	0.43
42:DK:101:ASN:HB2	42:DK:182:VAL:HG13	1.99	0.43
42:DK:259:LEU:HD11	42:DK:378:LEU:HB2	2.00	0.43
42:DK:311:LYS:H	42:DK:382:THR:CG2	2.23	0.43
41:DL:350:LYS:HD2	41:DL:351:THR:H	1.82	0.43
42:EC:226:ASN:ND2	42:EC:367:ASP:OD1	2.51	0.43
41:EF:30:ILE:HD11	41:EF:51:TYR:CE2	2.51	0.43
41:EF:60:VAL:HG21	41:EF:86:ARG:HG2	1.99	0.43
41:EF:323:MET:HG3	42:EG:224:TYR:CD1	2.53	0.43
41:EF:405:GLU:HA	41:EF:408:PHE:HD2	1.82	0.43
42:EG:63:PRO:HG3	42:EG:87:PHE:CD2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:EG:104:ALA:O	42:EG:105:ARG:C	2.55	0.43
42:EG:105:ARG:HE	42:EG:105:ARG:HB3	1.52	0.43
41:EH:309:ARG:HD3	41:EH:342:VAL:HA	2.00	0.43
41:EH:330:MET:HG3	41:EH:351:THR:HG22	2.00	0.43
42:EI:122:ILE:HG23	42:EI:135:PHE:HE2	1.82	0.43
42:EI:261:PRO:HG3	42:EI:313:MET:HE3	2.00	0.43
42:EK:31:GLN:O	42:EK:34:GLY:N	2.50	0.43
42:EK:299:ALA:O	42:EK:300:ASN:C	2.56	0.43
41:EL:286:VAL:HG22	41:EL:321:MET:CE	2.48	0.43
42:EM:3:GLU:HG3	42:EM:129:CYS:HB3	1.99	0.43
42:EM:99:ALA:O	42:EM:100:ALA:C	2.57	0.43
42:EM:325:PRO:O	42:EM:326:LYS:C	2.56	0.43
42:FC:284:GLU:O	42:FC:285:GLN:C	2.56	0.43
42:FC:341:ILE:H	42:FC:341:ILE:HG12	1.36	0.43
41:FD:11:GLN:O	41:FD:12:CYS:C	2.57	0.43
41:FD:346:PRO:HD2	42:FE:398:MET:SD	2.58	0.43
41:FD:395:LEU:O	41:FD:396:HIS:C	2.56	0.43
41:FH:21:TRP:CZ3	41:FH:50:TYR:HB3	2.53	0.43
41:FJ:189:VAL:HA	41:FJ:192:LEU:HD12	2.00	0.43
41:FJ:212:PHE:HA	41:FJ:216:LYS:HA	2.00	0.43
42:FK:130:THR:OG1	42:FK:131:GLY:N	2.51	0.43
42:FM:115:ILE:HD11	42:FM:153:LEU:HA	2.00	0.43
42:GC:143:GLY:N	45:GC:501:GTP:O2A	2.50	0.43
41:GH:61:PRO:HD2	41:GH:84:ILE:O	2.18	0.43
41:GH:63:ALA:O	41:GH:89:ASN:ND2	2.51	0.43
42:GM:99:ALA:O	42:GM:100:ALA:C	2.56	0.43
41:HB:358:PRO:HG2	41:HB:361:LEU:HD12	2.00	0.43
42:HG:225:THR:OG1	42:HG:226:ASN:N	2.51	0.43
42:HG:248:LEU:HD11	43:HH:501:GDP:H2'	2.00	0.43
41:HH:130:LEU:HB2	41:HH:162:ARG:HD2	1.99	0.43
42:HI:265:ILE:HD13	42:HI:435:VAL:HG21	2.00	0.43
41:HJ:262:ARG:HE	41:HJ:262:ARG:HB3	1.70	0.43
41:HJ:309:ARG:HE	41:HJ:309:ARG:HB3	1.77	0.43
42:HK:291:ILE:HD13	42:HK:373:ARG:HB3	2.00	0.43
42:HM:13:GLY:HA2	42:HM:16:ILE:HD12	2.00	0.43
42:HM:186:ASN:O	42:HM:190:THR:HG23	2.18	0.43
42:HM:381:THR:C	42:HM:383:ALA:H	2.22	0.43
41:ID:258:VAL:HG23	42:IE:407:TRP:HE1	1.83	0.43
42:IE:97:GLU:HB2	42:IE:98:ASP:H	1.53	0.43
41:IL:112:LEU:HD12	41:IL:115:SER:OG	2.18	0.43
41:IN:195:ASN:HD22	41:IN:195:ASN:HA	1.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:IN:273:LEU:H	41:IN:292:GLN:HE22	1.66	0.43
41:JH:255:VAL:HG11	42:JI:100:ALA:O	2.17	0.43
41:JH:332:ASN:O	41:JH:336:LYS:HG2	2.17	0.43
41:JH:416:ASN:HA	41:JH:419:VAL:HB	2.00	0.43
42:JI:217:LEU:HD12	42:JI:217:LEU:HA	1.89	0.43
41:JJ:8:GLN:HE22	41:JJ:65:LEU:HD22	1.83	0.43
41:JL:54:ALA:O	41:JL:55:THR:C	2.55	0.43
42:JM:72:PRO:O	42:JM:73:THR:C	2.57	0.43
42:KC:274:PRO:HG3	42:KC:374:ALA:HA	2.00	0.43
42:KI:65:ALA:O	42:KI:91:GLN:NE2	2.51	0.43
42:KI:174:ALA:HA	42:KI:205:ASP:HB2	2.00	0.43
42:KK:300:ASN:ND2	42:KK:300:ASN:O	2.51	0.43
41:KN:134:GLN:HA	41:KN:165:ASN:HB2	2.00	0.43
41:LD:74:ASP:OD1	41:LD:74:ASP:N	2.51	0.43
41:LF:317:PHE:HB2	41:LF:353:VAL:HG22	1.99	0.43
41:LF:404:ASP:OD1	41:LF:405:GLU:N	2.45	0.43
42:LK:226:ASN:ND2	42:LK:367:ASP:OD1	2.48	0.43
41:MH:25:SER:HB3	41:MH:30:ILE:HB	1.99	0.43
42:MI:202:PHE:CE2	42:MI:378:LEU:HD13	2.52	0.43
41:ML:342:VAL:HB	41:ML:344:TRP:CD1	2.53	0.43
42:MM:157:LEU:HB3	42:MM:166:LYS:HE2	2.00	0.43
41:NB:324:LYS:O	41:NB:328:GLU:HG3	2.18	0.43
42:NC:120:ASP:O	42:NC:124:LYS:HG2	2.18	0.43
42:NC:224:TYR:HD1	42:NC:224:TYR:HA	1.74	0.43
41:ND:323:MET:HE3	41:ND:323:MET:HB2	1.86	0.43
42:NE:422:ARG:O	42:NE:426:ALA:N	2.46	0.43
42:NG:75:ILE:HD11	42:NG:92:LEU:HD22	2.00	0.43
42:NG:326:LYS:HE2	42:NG:326:LYS:HB3	1.44	0.43
42:OA:199:ASP:HB3	42:OA:256:GLN:HE21	1.82	0.43
41:OF:3:GLU:OE2	41:OF:127:CYS:HB2	2.18	0.43
41:OJ:289:LEU:HD13	41:OJ:363:MET:HE2	1.99	0.43
42:OK:136:LEU:HD12	42:OK:136:LEU:HA	1.72	0.43
42:PA:148:GLY:O	42:PA:149:PHE:C	2.56	0.43
42:PG:134:GLY:HA2	42:PG:164:LYS:HB3	1.99	0.43
42:PG:139:HIS:H	42:PG:139:HIS:CD2	2.36	0.43
42:PG:258:ASN:O	42:PG:314:ALA:HB2	2.18	0.43
42:PG:313:MET:HB2	42:PG:314:ALA:H	1.54	0.43
41:PH:54:ALA:HB2	41:PH:60:VAL:HG12	2.00	0.43
41:PH:203:ASP:OD2	41:PH:205:GLU:HB3	2.18	0.43
41:PH:328:GLU:HB3	41:PH:329:GLN:H	1.56	0.43
42:PI:183:GLU:O	42:PI:184:PRO:C	2.55	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:PJ:80:PRO:HB2	41:PJ:81:PHE:H	1.62	0.43
41:PJ:389:PHE:C	41:PJ:392:LYS:H	2.21	0.43
42:PK:262:TYR:HB2	42:PK:265:ILE:HG22	2.00	0.43
41:PL:94:GLN:O	41:PL:95:SER:C	2.55	0.43
42:QC:172:TYR:CD1	42:QC:173:PRO:HD2	2.53	0.43
41:QF:69:GLU:HG2	41:QF:71:GLY:H	1.83	0.43
41:QF:170:VAL:HG21	41:QF:377:LEU:HD21	2.00	0.43
41:QF:177:ASP:OD2	43:QF:501:GDP:O3'	2.31	0.43
42:QG:252:LEU:HD23	42:QG:255:PHE:CE2	2.53	0.43
42:QI:105:ARG:HA	42:QI:109:THR:HB	2.00	0.43
42:QI:112:LYS:HD3	42:QI:112:LYS:HA	1.41	0.43
42:QI:210:TYR:HA	42:QI:227:LEU:HD21	1.99	0.43
41:QJ:7:LEU:HD13	41:QJ:164:MET:HE3	2.00	0.43
42:QK:215:ARG:HE	42:QK:215:ARG:HB3	1.48	0.43
41:QL:27:GLU:HA	41:QL:359:ARG:HD3	2.00	0.43
41:RB:344:TRP:CZ2	42:RC:403:ALA:HB2	2.52	0.43
41:RF:43:GLN:HA	41:RF:242:PHE:CE1	2.52	0.43
41:RF:407:GLU:HA	41:RF:410:GLU:CG	2.47	0.43
42:RG:183:GLU:HG2	42:RG:184:PRO:HD3	1.98	0.43
41:RH:386:THR:HG22	41:RH:390:ARG:HH21	1.83	0.43
42:RI:257:THR:HA	41:RJ:397:TRP:CZ2	2.53	0.43
41:RJ:271:ALA:N	41:RJ:272:PRO:HD2	2.30	0.43
41:RJ:289:LEU:HD11	41:RJ:363:MET:HB3	2.00	0.43
42:RK:141:PHE:O	42:RK:147:SER:OG	2.34	0.43
42:RK:315:CYS:HB3	42:RK:351:PHE:HB3	1.99	0.43
42:SE:272:TYR:HD1	42:SE:275:VAL:HG13	1.83	0.43
42:SG:109:THR:OG1	42:SG:112:LYS:NZ	2.51	0.43
41:SH:241:ARG:HH11	41:SH:242:PHE:HE2	1.64	0.43
42:SI:263:PRO:HD3	41:SJ:396:HIS:CD2	2.53	0.43
42:SK:108:TYR:O	42:SK:111:GLY:N	2.45	0.43
42:SK:369:ALA:O	42:SK:371:VAL:HG23	2.18	0.43
42:SK:383:ALA:O	42:SK:386:GLU:HG3	2.18	0.43
41:SL:252:LYS:HA	42:SM:100:ALA:HB1	2.00	0.43
41:SL:405:GLU:H	41:SL:405:GLU:HG3	1.52	0.43
42:TC:70:LEU:HD11	42:TC:149:PHE:CG	2.53	0.43
41:TD:246:LEU:HD22	41:TD:352:ALA:HA	2.01	0.43
41:TD:317:PHE:HB2	41:TD:353:VAL:HG22	1.98	0.43
41:TF:185:ALA:HB3	41:TF:381:ILE:HG21	1.99	0.43
41:TH:47:ILE:HG12	41:TH:51:TYR:HB2	2.00	0.43
42:TI:217:LEU:HG	42:TI:367:ASP:HB2	1.99	0.43
41:TJ:41:ASP:O	41:TJ:45:GLU:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:TJ:255:VAL:HG23	42:TK:407:TRP:CG	2.54	0.43
42:UC:394:LYS:HB3	42:UC:394:LYS:HE3	1.36	0.43
41:UD:117:LEU:HD11	41:UD:154:LYS:HB3	2.00	0.43
41:UD:217:LEU:HB2	41:UD:220:PRO:HG3	2.00	0.43
41:UF:255:VAL:HG11	42:UG:102:ASN:HD21	1.82	0.43
42:UI:271:THR:HA	42:UI:302:MET:HE2	2.00	0.43
42:UI:344:VAL:HB	42:UI:346:TRP:HD1	1.83	0.43
42:VC:247:ALA:HB3	42:VC:355:ILE:HB	1.99	0.43
41:VD:255:VAL:HG11	42:VE:100:ALA:O	2.18	0.43
41:VF:6:HIS:CD2	41:VF:21:TRP:HE1	2.36	0.43
42:VG:200:CYS:HB3	42:VG:202:PHE:CE1	2.52	0.43
42:VI:88:HIS:HD2	42:WI:283:HIS:HB2	1.83	0.43
42:VK:30:ILE:H	42:VK:30:ILE:HG12	1.32	0.43
42:VK:153:LEU:HG	42:VK:157:LEU:HD13	2.00	0.43
42:VK:191:THR:O	42:VK:192:HIS:C	2.56	0.43
42:VK:273:ALA:HB1	42:VK:291:ILE:HG12	2.00	0.43
42:VK:398:MET:HE2	42:VK:398:MET:HB2	1.83	0.43
41:VL:103:LYS:HD2	41:VL:401:GLU:HG2	1.99	0.43
41:VL:135:LEU:HB3	41:VL:166:THR:HG22	2.00	0.43
42:WC:79:ARG:NH2	42:WC:92:LEU:O	2.51	0.43
42:WE:206:ASN:HD21	45:WE:501:GTP:N2	2.13	0.43
41:WF:58:LYS:HB2	41:WF:58:LYS:HE2	1.39	0.43
41:WH:143:THR:HG22	41:WH:147:MET:HE2	2.00	0.43
41:WL:215:LEU:HD11	41:WL:228:LEU:HD11	2.00	0.43
41:WN:236:VAL:HG23	41:WN:368:ILE:HD11	1.98	0.43
2:1D:155:LEU:HB3	26:4K:209:LEU:HD22	2.01	0.43
9:2E:779:ARG:O	41:HD:77:ARG:NH1	2.50	0.43
14:2W:103:TRP:HB3	41:OB:279:GLN:HE22	1.83	0.43
20:3P:539:LYS:HD3	20:3P:539:LYS:HA	1.82	0.43
22:4C:186:PRO:O	22:4C:203:ALA:HB1	2.18	0.43
25:4I:37:MET:H	25:4I:47:LEU:HB3	1.83	0.43
27:4P:197:LEU:HA	27:4P:225:ILE:HD11	1.99	0.43
27:4R:102:LYS:HA	27:4R:102:LYS:HD3	1.38	0.43
33:5R:137:LEU:HD13	33:5R:137:LEU:HA	1.67	0.43
33:5S:214:SER:OG	33:5S:215:LEU:N	2.50	0.43
33:5W:207:ARG:NH1	33:5W:209:PRO:HA	2.33	0.43
33:5W:277:SER:OG	34:6B:148:GLU:OE1	2.36	0.43
33:5X:104:GLN:HE21	33:5X:104:GLN:HB3	1.59	0.43
33:5X:389:LYS:HE3	34:6M:481:PRO:HA	2.01	0.43
33:5X:416:ASN:HD22	34:6C:244:LEU:HD22	1.83	0.43
34:6A:278:SER:O	34:6A:279:ASP:C	2.56	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:6C:434:LEU:HD13	34:6C:434:LEU:HA	1.85	0.43
34:6G:210:LEU:HD12	34:6G:210:LEU:HA	1.89	0.43
34:6M:261:LYS:O	34:6M:265:TYR:N	2.39	0.43
35:6R:41:LEU:HD12	35:6R:47:ARG:HG3	2.01	0.43
35:6T:158:CYS:SG	35:6T:429:LYS:HE3	2.58	0.43
35:6V:427:ARG:HE	35:6V:431:MET:HG3	1.82	0.43
41:AB:370:ASN:ND2	41:AB:422:TYR:OH	2.47	0.43
41:AD:317:PHE:N	41:AD:352:ALA:O	2.49	0.43
41:AD:372:THR:HA	41:AD:422:TYR:CE2	2.53	0.43
41:AJ:239:CYS:HB3	41:AJ:247:ASN:HB2	2.00	0.43
41:AJ:255:VAL:HG11	42:AK:100:ALA:HB1	2.00	0.43
42:BI:193:THR:O	42:BI:194:THR:C	2.57	0.43
42:BK:346:TRP:CE3	41:BL:391:ARG:HD2	2.52	0.43
41:BL:230:SER:HA	41:BL:233:MET:HG2	2.00	0.43
42:CC:9:VAL:HG21	42:CC:149:PHE:HB3	1.99	0.43
41:CD:68:LEU:HD12	41:CD:97:ALA:HB2	2.00	0.43
41:CD:117:LEU:HD12	41:CD:117:LEU:HA	1.88	0.43
41:CD:122:LYS:HD2	41:CD:122:LYS:HA	1.74	0.43
41:CF:21:TRP:CE3	41:CF:24:ILE:HD11	2.52	0.43
41:CF:238:THR:HG23	41:CF:354:CYS:SG	2.59	0.43
42:CG:349:THR:HG21	41:CH:182:PRO:HD2	1.99	0.43
42:CI:213:CYS:HA	42:CI:217:LEU:HB2	2.00	0.43
41:CL:236:VAL:HG12	41:CL:368:ILE:HD11	1.99	0.43
41:CL:239:CYS:HB3	41:CL:247:ASN:HB3	1.99	0.43
42:DC:121:ARG:HA	42:DC:121:ARG:HD2	1.70	0.43
42:DE:21:TRP:CD1	42:DE:67:PHE:HZ	2.36	0.43
42:DE:399:TYR:OH	42:DE:415:GLU:OE2	2.20	0.43
41:DF:412:GLU:N	41:DF:412:GLU:OE2	2.50	0.43
41:DH:192:LEU:O	41:DH:194:GLU:N	2.45	0.43
41:DH:237:THR:HG22	41:DH:240:LEU:HB2	1.99	0.43
41:DH:286:VAL:O	41:DH:290:THR:HG23	2.18	0.43
42:DI:181:VAL:HG11	42:DI:404:PHE:CZ	2.52	0.43
42:DI:288:VAL:HA	42:DI:291:ILE:HG22	1.99	0.43
42:DI:428:LEU:HA	42:DI:431:ASP:HB2	2.00	0.43
41:DJ:46:ARG:HD3	41:DJ:46:ARG:HA	1.68	0.43
41:DJ:417:ASP:O	41:DJ:418:LEU:C	2.57	0.43
42:DK:118:VAL:HG21	42:DK:149:PHE:CZ	2.53	0.43
42:DM:171:ILE:HA	42:DM:204:VAL:O	2.18	0.43
42:EC:93:ILE:HG13	42:EC:118:VAL:HG12	1.99	0.43
41:ED:306:ARG:C	41:ED:308:GLY:N	2.72	0.43
41:ED:375:GLN:HG3	41:ED:419:VAL:HG13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:EE:349:THR:HG22	41:EF:176:SER:CB	2.47	0.43
41:EF:293:MET:HB3	41:EF:367:PHE:HB2	1.98	0.43
42:EG:102:ASN:O	42:EG:103:TYR:C	2.55	0.43
42:EG:204:VAL:HA	42:EG:303:VAL:HG22	2.00	0.43
42:EG:278:ALA:O	42:EG:279:GLU:C	2.56	0.43
42:EG:363:VAL:HG23	42:EG:366:GLY:HA3	1.99	0.43
41:EJ:112:LEU:O	41:EJ:115:SER:OG	2.29	0.43
41:EJ:344:TRP:HZ3	41:EJ:425:TYR:HA	1.83	0.43
42:EK:38:SER:O	42:EK:39:ASP:HB2	2.18	0.43
42:EK:349:THR:OG1	42:EK:350:GLY:N	2.51	0.43
41:FD:6:HIS:CD2	41:FD:134:GLN:HB3	2.53	0.43
41:FD:170:VAL:HG12	41:FD:171:PRO:HD2	2.00	0.43
42:FE:193:THR:O	42:FE:197:HIS:ND1	2.50	0.43
42:FG:115:ILE:HG13	42:FG:119:LEU:HD23	2.00	0.43
41:FH:1:MET:HA	41:FH:48:ASN:HB3	2.01	0.43
42:FI:188:ILE:HG12	42:FI:425:MET:HG3	2.00	0.43
42:FK:28:HIS:NE2	42:FK:30:ILE:O	2.51	0.43
42:FK:164:LYS:HB2	42:FK:197:HIS:CE1	2.53	0.43
41:FL:309:ARG:HD2	41:FL:310:TYR:C	2.38	0.43
42:FM:172:TYR:HE1	42:FM:388:TRP:CD1	2.36	0.43
41:GJ:110:ALA:O	41:GJ:111:GLU:C	2.57	0.43
42:GK:115:ILE:HA	42:GK:118:VAL:HG22	2.00	0.43
42:GM:217:LEU:HA	42:GM:277:SER:HB3	1.99	0.43
41:HB:211:CYS:HB3	41:HB:220:PRO:HG3	2.00	0.43
42:HC:10:GLY:O	42:HC:11:GLN:C	2.57	0.43
42:HC:100:ALA:O	42:HC:101:ASN:C	2.55	0.43
41:HD:3:GLU:HA	41:HD:49:VAL:HA	2.00	0.43
41:HD:198:GLU:HG3	41:HD:266:PHE:CE2	2.53	0.43
41:HD:271:ALA:HB2	41:HD:365:ALA:HB3	2.00	0.43
41:HD:377:LEU:HD12	41:HD:377:LEU:HA	1.83	0.43
41:HF:14:ASN:HD22	41:HF:72:THR:HB	1.83	0.43
42:HG:69:ASP:OD2	42:HG:75:ILE:HB	2.18	0.43
41:HH:86:ARG:HG2	41:HH:89:ASN:H	1.83	0.43
41:HH:228:LEU:HB3	41:HH:300:MET:CE	2.48	0.43
41:HJ:88:ASP:C	41:HJ:90:PHE:H	2.21	0.43
42:HK:101:ASN:ND2	42:HK:142:GLY:O	2.46	0.43
42:HK:139:HIS:NE2	42:HK:150:THR:HG21	2.33	0.43
42:HM:50:ASN:O	42:HM:51:THR:C	2.56	0.43
42:HM:153:LEU:HG	42:HM:157:LEU:HD13	2.00	0.43
42:HM:344:VAL:HG13	42:HM:346:TRP:H	1.83	0.43
41:IJ:134:GLN:HB3	41:IJ:165:ASN:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:IM:104:ALA:HA	42:IM:108:TYR:HD2	1.82	0.43
41:IN:69:GLU:HG3	41:IN:71:GLY:H	1.82	0.43
41:IN:185:ALA:O	41:IN:186:THR:C	2.55	0.43
42:JG:345:ASP:N	42:JG:345:ASP:OD1	2.52	0.43
42:JI:52:PHE:CE2	42:JI:243:ARG:HD3	2.53	0.43
42:JI:200:CYS:HA	42:JI:266:HIS:HB2	2.00	0.43
42:JI:244:PHE:CE1	42:JI:358:GLN:HG2	2.53	0.43
41:JJ:21:TRP:CZ3	41:JJ:63:ALA:HB2	2.54	0.43
42:JK:326:LYS:HZ3	41:JL:220:PRO:HG2	1.82	0.43
42:JK:339:ARG:HA	42:JK:339:ARG:CZ	2.47	0.43
42:JM:2:ARG:H	42:JM:2:ARG:HG3	1.40	0.43
42:JM:278:ALA:O	42:JM:279:GLU:C	2.57	0.43
41:KF:133:PHE:HB2	41:KF:164:MET:HG2	2.00	0.43
41:KF:330:MET:SD	41:KF:349:VAL:HG11	2.58	0.43
43:KG:503:GDP:O2A	41:KH:99:ASN:ND2	2.51	0.43
41:KJ:91:VAL:HG11	41:KJ:116:VAL:HG22	2.00	0.43
42:MC:258:ASN:OD1	41:MD:180:VAL:HG23	2.17	0.43
42:MC:409:VAL:HG23	42:MC:414:GLU:HA	1.99	0.43
41:MD:393:ALA:C	41:MD:395:LEU:H	2.21	0.43
42:ME:120:ASP:OD1	42:ME:124:LYS:NZ	2.45	0.43
42:ME:349:THR:HB	41:MF:176:SER:HB3	1.99	0.43
41:MF:318:ARG:HB2	41:MF:358:PRO:HD3	2.01	0.43
41:MH:2:ARG:NH1	42:MI:71:GLU:OE1	2.51	0.43
41:MJ:187:LEU:HA	41:MJ:190:HIS:HE1	1.83	0.43
42:MK:367:ASP:OD1	42:MK:368:LEU:N	2.51	0.43
41:MN:260:PHE:O	41:MN:261:PRO:C	2.55	0.43
42:NA:272:TYR:HD2	42:NA:275:VAL:HG13	1.83	0.43
42:NC:172:TYR:CD1	42:NC:173:PRO:HD2	2.53	0.43
41:ND:165:ASN:HB2	41:ND:200:TYR:HE1	1.82	0.43
41:ND:174:LYS:HE2	41:ND:174:LYS:HB2	1.55	0.43
42:NE:211:ASP:HB3	42:NE:215:ARG:NH1	2.33	0.43
41:NJ:46:ARG:HH21	42:NK:71:GLU:HG3	1.83	0.43
42:OA:248:LEU:HD11	41:OB:222:TYR:CE2	2.52	0.43
41:OB:17:GLY:O	41:OB:20:PHE:N	2.52	0.43
42:OC:71:GLU:HB3	42:OC:73:THR:HG22	1.99	0.43
42:OE:75:ILE:O	42:OE:79:ARG:N	2.44	0.43
41:OF:306:ARG:HG3	41:OF:340:TYR:CE2	2.53	0.43
42:OG:215:ARG:HE	42:OG:215:ARG:HB2	1.59	0.43
41:OJ:306:ARG:HA	41:OJ:306:ARG:HD2	1.37	0.43
41:OL:294:PHE:CZ	41:OL:313:VAL:HG11	2.54	0.43
41:OL:296:ALA:HA	41:OL:299:MET:HG2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:PA:10:GLY:N	42:PA:69:ASP:HB2	2.34	0.43
42:PE:175:PRO:HD2	42:PE:207:GLU:HG2	2.00	0.43
41:PF:169:VAL:HA	41:PF:202:ILE:O	2.18	0.43
41:PF:271:ALA:HB3	41:PF:272:PRO:HD3	2.00	0.43
42:PG:251:ASP:HB2	42:PG:254:GLU:HG3	2.00	0.43
41:PH:393:ALA:C	41:PH:395:LEU:N	2.72	0.43
42:PI:308:ARG:H	42:PI:308:ARG:HG2	1.62	0.43
41:PJ:389:PHE:CE1	41:PJ:395:LEU:HD21	2.53	0.43
41:PL:137:HIS:NE2	41:PL:145:SER:HA	2.33	0.43
41:QB:104:GLY:HA3	41:QB:147:MET:HB2	2.00	0.43
42:QC:312:TYR:CD1	42:QC:341:ILE:HG23	2.53	0.43
41:QD:19:LYS:NZ	41:QD:223:GLY:O	2.51	0.43
42:QE:66:VAL:HG12	42:QE:91:GLN:HA	2.00	0.43
42:QG:138:PHE:CE1	42:QG:169:PHE:HB2	2.54	0.43
42:QI:210:TYR:HD1	42:QI:227:LEU:HD21	1.83	0.43
41:QL:19:LYS:HA	41:QL:22:GLU:HB3	2.00	0.43
41:QL:89:ASN:HD22	41:QL:119:VAL:HG21	1.82	0.43
41:QL:244:GLY:HA3	41:QL:354:CYS:HA	1.99	0.43
41:QL:317:PHE:HB3	41:QL:365:ALA:HB2	1.99	0.43
41:RB:313:VAL:HG13	41:RB:367:PHE:HE1	1.83	0.43
41:RD:135:LEU:O	41:RD:166:THR:HA	2.18	0.43
41:RD:149:THR:HB	41:RD:191:GLN:HG2	2.00	0.43
42:RE:210:TYR:CE2	42:RE:227:LEU:HD11	2.53	0.43
41:RF:417:ASP:O	41:RF:421:GLU:N	2.47	0.43
41:RF:418:LEU:HA	41:RF:421:GLU:HB2	2.01	0.43
41:RH:5:VAL:HG12	41:RH:7:LEU:HD21	2.00	0.43
42:RI:200:CYS:HA	42:RI:266:HIS:HB2	1.99	0.43
42:RI:286:LEU:HD21	42:RI:291:ILE:HG21	2.00	0.43
45:RI:501:GTP:H8	45:RI:501:GTP:O1A	2.01	0.43
41:RJ:290:THR:HG22	41:RJ:317:PHE:CZ	2.53	0.43
42:SE:63:PRO:HD3	42:SE:86:LEU:O	2.19	0.43
42:SE:99:ALA:HA	42:SE:110:ILE:HD11	2.00	0.43
42:SE:360:PRO:HG3	42:SE:374:ALA:HB2	2.00	0.43
41:SF:355:ASP:O	41:SF:356:ILE:C	2.55	0.43
41:SH:48:ASN:O	41:SH:62:ARG:NH2	2.52	0.43
42:SI:273:ALA:HB2	42:SI:375:VAL:HG12	1.99	0.43
41:SL:155:ILE:HG23	41:SL:159:TYR:HD1	1.82	0.43
41:SL:272:PRO:HG2	41:SL:361:LEU:HD13	2.00	0.43
42:SM:316:CYS:SG	42:SM:317:LEU:N	2.91	0.43
42:SM:392:ASP:HB2	42:SM:422:ARG:CZ	2.48	0.43
41:TD:172:SER:OG	41:TD:175:VAL:O	2.27	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:TD:245:GLN:HB3	42:TE:224:TYR:CD2	2.53	0.43
41:TF:9:ALA:HA	41:TF:66:VAL:O	2.18	0.43
42:TI:313:MET:HG2	42:TI:346:TRP:HZ2	1.82	0.43
42:TM:168:GLU:HB3	42:TM:201:ALA:HA	2.00	0.43
42:UC:70:LEU:HD13	42:UC:70:LEU:HA	1.69	0.43
42:UC:88:HIS:CB	42:UC:90:GLU:HG2	2.42	0.43
42:UC:360:PRO:HG3	42:UC:374:ALA:HB2	2.00	0.43
41:UH:25:SER:OG	41:UH:30:ILE:O	2.36	0.43
41:UH:259:PRO:HG3	41:UH:311:LEU:HD22	1.99	0.43
41:UH:396:HIS:HA	41:UH:399:THR:HG22	1.98	0.43
42:UK:3:GLU:HA	42:UK:51:THR:HA	2.00	0.43
42:UK:138:PHE:HZ	42:UK:235:VAL:HG21	1.83	0.43
42:UK:344:VAL:HG12	42:UK:347:CYS:H	1.83	0.43
42:UM:224:TYR:CD2	42:UM:227:LEU:HD11	2.53	0.43
42:UM:276:ILE:HD13	42:UM:286:LEU:HD21	2.00	0.43
41:VH:22:GLU:HG2	41:VH:81:PHE:HB2	2.00	0.43
42:VI:174:ALA:HB3	42:VI:177:VAL:O	2.18	0.43
42:VK:70:LEU:HD23	42:VK:114:LEU:HD22	2.00	0.43
42:VK:188:ILE:HG23	42:VK:425:MET:HG2	2.00	0.43
42:VK:286:LEU:HA	42:VK:290:GLU:HG2	2.00	0.43
41:VL:141:GLY:O	41:VL:184:ASN:ND2	2.51	0.43
41:VL:272:PRO:HG3	41:VL:364:SER:HA	1.99	0.43
42:WE:337:THR:O	42:WE:338:LYS:C	2.56	0.43
41:WF:237:THR:HG23	41:WF:241:ARG:HH11	1.83	0.43
41:WH:173:PRO:HD3	41:WH:380:ARG:NH1	2.32	0.43
41:WJ:252:LYS:NZ	45:WK:501:GTP:O3G	2.36	0.43
42:WK:161:TYR:HB3	42:WK:164:LYS:HG3	2.00	0.43
42:WK:298:PRO:HG2	42:WK:308:ARG:NH1	2.33	0.43
2:1E:78:GLN:HG2	26:4L:119:LEU:HD11	2.00	0.43
8:1X:37:ILE:HD13	27:4O:212:ASP:OD2	2.18	0.43
9:2D:575:ARG:NH2	41:IN:360:GLY:N	2.59	0.43
11:2K:248:ARG:NH2	39:7L:25:LEU:HG	2.34	0.43
16:3C:201:GLU:HA	42:VM:214:ARG:NH2	2.31	0.43
19:3K:276:ARG:CZ	42:CG:45:GLY:HA2	2.48	0.43
19:3L:197:GLN:C	32:5O:166:SER:HB2	2.39	0.43
19:3L:212:TYR:CZ	19:3L:216:ARG:HD2	2.53	0.43
20:3P:96:ASP:N	20:3P:96:ASP:OD1	2.51	0.43
24:4F:37:GLN:HE21	24:4F:37:GLN:HB2	1.49	0.43
26:4K:254:GLU:O	26:4K:258:THR:HG22	2.17	0.43
32:5L:314:HIS:HE1	32:5L:341:VAL:HG13	1.83	0.43
32:5N:310:ALA:HA	32:5N:344:ILE:HD13	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:5S:152:GLN:HE21	35:6R:429:LYS:CD	2.31	0.43
33:5T:235:LYS:HE2	33:5T:235:LYS:HB2	1.57	0.43
33:5V:238:GLU:HA	33:5V:241:GLU:HB3	2.00	0.43
33:5W:42:ALA:O	33:5W:46:ARG:N	2.39	0.43
33:5W:77:MET:HE1	33:5W:226:LYS:HE2	2.00	0.43
33:5X:263:PHE:CZ	34:6C:308:ILE:HG12	2.53	0.43
33:5X:312:LYS:HB3	33:5Y:199:ILE:HG22	2.00	0.43
33:5X:385:LEU:HG	33:5X:389:LYS:NZ	2.33	0.43
34:6F:202:ARG:O	34:6F:205:ARG:NE	2.51	0.43
34:6G:85:SER:HB3	35:6P:46:PHE:HB3	2.00	0.43
34:6M:266:ARG:O	34:6M:270:LYS:HG2	2.19	0.43
35:6P:52:LEU:HD22	35:6Q:169:ARG:CZ	2.48	0.43
35:6R:441:LEU:HD21	41:LJ:31:ASP:OD2	2.18	0.43
35:6S:365:ASN:N	35:6S:365:ASN:OD1	2.51	0.43
35:6S:388:LEU:O	35:6S:392:LYS:N	2.50	0.43
37:7C:114:HIS:HD2	42:SM:114:LEU:HA	1.84	0.43
37:7C:157:SER:HB2	41:SJ:128:ASP:HB2	2.00	0.43
37:7C:226:VAL:O	37:7C:228:MET:HG2	2.18	0.43
37:7E:163:ILE:HD13	41:OJ:340:TYR:CE2	2.53	0.43
41:AB:2:ARG:HH21	41:AB:240:LEU:HA	1.82	0.43
41:AB:256:ASN:HB2	41:AB:350:LYS:HD2	2.00	0.43
41:AB:303:CYS:SG	41:AB:377:LEU:HB2	2.58	0.43
41:AH:46:ARG:HH21	42:AI:72:PRO:HG2	1.81	0.43
41:AH:286:VAL:O	41:AH:290:THR:HG23	2.17	0.43
41:AH:305:PRO:C	41:AH:307:HIS:N	2.71	0.43
42:AI:391:LEU:HA	42:AI:391:LEU:HD12	1.77	0.43
41:BH:150:LEU:O	41:BH:154:LYS:HG2	2.18	0.43
41:BJ:252:LYS:HE2	42:BK:98:ASP:OD2	2.18	0.43
41:BL:113:VAL:HA	41:BL:116:VAL:HG12	2.00	0.43
42:CC:138:PHE:HE1	42:CC:235:VAL:HG21	1.83	0.43
42:CC:391:LEU:HD12	42:CC:391:LEU:HA	1.81	0.43
41:CD:318:ARG:H	41:CD:318:ARG:HG3	1.68	0.43
41:CF:305:PRO:HB3	41:CF:310:TYR:CE2	2.54	0.43
42:CG:124:LYS:HE3	42:CG:124:LYS:HB3	1.38	0.43
42:CG:139:HIS:ND1	42:CG:146:GLY:O	2.51	0.43
41:CH:17:GLY:HA2	41:CH:20:PHE:HB3	2.01	0.43
42:CI:228:ASN:ND2	45:CI:501:GTP:O6	2.46	0.43
42:CI:260:VAL:HA	42:CI:380:ASN:HD22	1.83	0.43
41:CJ:198:GLU:HB3	41:CJ:266:PHE:HE2	1.83	0.43
42:CK:140:SER:OG	45:CK:501:GTP:O1A	2.34	0.43
42:CK:189:LEU:HD11	42:CK:418:PHE:HE1	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:CL:30:ILE:HG13	41:CL:51:TYR:CE1	2.53	0.43
42:CM:184:PRO:HG3	42:CM:394:LYS:HD2	1.99	0.43
42:CM:195:LEU:HD21	42:CM:264:ARG:CZ	2.49	0.43
41:DB:65:LEU:HD11	41:DB:85:PHE:CE2	2.53	0.43
42:DC:211:ASP:O	42:DC:215:ARG:HG2	2.19	0.43
41:DD:388:MET:O	41:DD:392:LYS:N	2.51	0.43
42:DE:144:GLY:O	42:DE:148:GLY:N	2.48	0.43
42:DE:245:ASP:OD2	42:DE:246:GLY:N	2.51	0.43
41:DF:2:ARG:HH12	41:DF:249:ASP:HB2	1.82	0.43
42:DK:317:LEU:HB3	42:DK:319:TYR:CE2	2.53	0.43
41:DL:48:ASN:O	41:DL:62:ARG:NH2	2.51	0.43
42:DM:307:PRO:HB2	42:DM:312:TYR:HE2	1.83	0.43
42:EE:88:HIS:HD2	42:EE:89:PRO:HD2	1.82	0.43
41:EF:192:LEU:HD23	41:EF:265:PHE:HE2	1.82	0.43
41:EF:313:VAL:HB	41:EF:349:VAL:HG12	1.99	0.43
41:EF:324:LYS:HZ3	42:EG:210:TYR:CB	2.31	0.43
41:EH:135:LEU:HD23	41:EH:152:ILE:HD11	2.00	0.43
41:EJ:55:THR:HG23	41:FJ:283:ALA:HA	1.99	0.43
41:EJ:117:LEU:HB3	41:EJ:121:ARG:HH12	1.83	0.43
42:EK:176:GLN:OE1	42:EK:176:GLN:N	2.50	0.43
41:EL:245:GLN:HB3	41:EL:353:VAL:HG13	1.99	0.43
42:EM:276:ILE:HD11	42:EM:371:VAL:HG13	2.00	0.43
41:FD:9:ALA:HA	41:FD:66:VAL:O	2.18	0.43
41:FD:122:LYS:HA	41:FD:122:LYS:HD3	1.62	0.43
41:FD:415:MET:HE3	41:FD:415:MET:HB3	1.86	0.43
41:FF:7:LEU:N	41:FF:134:GLN:O	2.52	0.43
41:FJ:258:VAL:HG22	41:FJ:266:PHE:HZ	1.83	0.43
42:FK:125:LEU:HD12	42:FK:125:LEU:HA	1.75	0.43
42:FK:238:ILE:H	42:FK:238:ILE:HG13	1.66	0.43
42:FK:267:PHE:HE2	42:FK:384:ILE:HB	1.82	0.43
41:FL:102:ALA:O	41:FL:103:LYS:C	2.55	0.43
41:FL:309:ARG:NE	41:FL:311:LEU:HA	2.33	0.43
42:FM:23:LEU:HD12	42:FM:23:LEU:HA	1.87	0.43
42:GC:120:ASP:HA	42:GC:123:ARG:HG2	2.00	0.43
42:GC:326:LYS:HD3	41:GD:220:PRO:HD2	1.99	0.43
41:GD:193:VAL:HG23	41:GD:265:PHE:CE1	2.53	0.43
41:GD:264:HIS:HD1	41:GD:264:HIS:H	1.67	0.43
41:GF:314:ALA:HB3	41:GF:368:ILE:HB	1.99	0.43
42:GI:208:ALA:O	42:GI:212:ILE:HG12	2.18	0.43
41:HD:267:MET:HE3	41:HD:267:MET:HB3	1.93	0.43
42:HE:224:TYR:HA	42:HE:227:LEU:HG	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:HH:221:THR:OG1	41:HH:222:TYR:N	2.51	0.43
42:HI:3:GLU:N	42:HI:133:GLN:OE1	2.45	0.43
42:HI:141:PHE:HB2	42:HI:173:PRO:HD3	2.00	0.43
42:HI:226:ASN:OD1	42:HI:226:ASN:N	2.51	0.43
41:HJ:316:VAL:HA	41:HJ:352:ALA:HB3	2.00	0.43
42:HK:238:ILE:HG23	42:HK:255:PHE:CE2	2.54	0.43
42:HK:275:VAL:HG13	42:HK:368:LEU:HD21	2.00	0.43
42:IC:199:ASP:HB3	42:IC:256:GLN:HG2	2.00	0.43
42:II:60:LYS:HG2	41:JH:281:TYR:HE1	1.84	0.43
42:II:75:ILE:HG23	42:II:92:LEU:HD22	2.01	0.43
42:II:188:ILE:HG23	42:II:425:MET:HG3	2.00	0.43
42:IK:3:GLU:HA	42:IK:51:THR:HA	1.99	0.43
41:IL:246:LEU:HD22	41:IL:352:ALA:HA	2.00	0.43
42:IM:320:ARG:HD3	42:IM:360:PRO:HG3	2.00	0.43
41:IN:137:HIS:CE1	41:IN:139:LEU:HD12	2.54	0.43
42:JC:319:TYR:HB2	42:JC:355:ILE:HD13	1.99	0.43
41:JF:8:GLN:N	41:JF:8:GLN:OE1	2.51	0.43
41:JJ:2:ARG:HA	41:JJ:131:GLN:HE22	1.83	0.43
42:JM:319:TYR:HB3	42:JM:323:VAL:HG11	2.00	0.43
41:KF:427:ASP:OD1	41:KF:427:ASP:N	2.50	0.43
42:KG:105:ARG:HG3	42:KG:411:GLU:HG3	2.01	0.43
42:KM:338:LYS:HB2	42:KM:338:LYS:HE2	1.46	0.43
41:LD:289:LEU:HD22	41:LD:363:MET:HE3	2.00	0.43
42:LE:168:GLU:HB3	42:LE:201:ALA:HA	2.01	0.43
42:LI:154:MET:HB3	42:LI:197:HIS:HB2	1.99	0.43
41:LJ:10:GLY:HA2	41:LJ:143:THR:HG23	2.00	0.43
42:LK:264:ARG:NH1	42:LK:424:ASP:OD1	2.51	0.43
41:LL:384:GLN:O	41:LL:388:MET:HG3	2.18	0.43
42:LM:53:PHE:O	42:LM:64:ARG:NH1	2.52	0.43
41:MD:254:ALA:O	41:MD:255:VAL:C	2.56	0.43
41:MH:63:ALA:O	41:MH:89:ASN:ND2	2.50	0.43
41:MH:151:LEU:O	41:MH:155:ILE:HG12	2.18	0.43
41:MJ:36:TYR:OH	41:MJ:40:SER:O	2.28	0.43
42:MK:167:LEU:HB3	42:MK:169:PHE:HE2	1.83	0.43
42:MM:265:ILE:HG23	42:MM:432:TYR:CE1	2.51	0.43
41:MN:101:TRP:CE2	41:MN:187:LEU:HB3	2.53	0.43
41:MN:371:SER:O	41:MN:372:THR:C	2.57	0.43
42:NA:293:ASN:HA	42:NA:335:ILE:HD11	2.00	0.43
41:NB:271:ALA:H	41:NB:272:PRO:HD2	1.83	0.43
41:NB:271:ALA:HB2	41:NB:293:MET:HG3	2.00	0.43
42:NG:254:GLU:C	42:NG:256:GLN:H	2.21	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:NI:51:THR:HB	42:NI:243:ARG:HG3	2.01	0.43
42:NI:144:GLY:N	45:NI:501:GTP:O2G	2.51	0.43
41:NJ:252:LYS:O	41:NJ:253:LEU:C	2.57	0.43
42:NK:140:SER:HB2	45:NK:501:GTP:H5'	2.00	0.43
41:NL:364:SER:OG	41:NL:365:ALA:N	2.51	0.43
41:OB:86:ARG:HB2	41:OB:86:ARG:HH11	1.83	0.43
42:OC:303:VAL:HG12	42:OC:305:CYS:HB2	2.00	0.43
42:OE:70:LEU:HB3	42:OE:97:GLU:O	2.18	0.43
42:OE:71:GLU:HB3	42:OE:98:ASP:HB2	2.00	0.43
42:OG:86:LEU:N	42:PG:283:HIS:HE1	2.15	0.43
41:OH:86:ARG:HB3	41:OH:89:ASN:H	1.83	0.43
41:OH:391:ARG:O	41:OH:392:LYS:C	2.56	0.43
42:OI:2:ARG:HA	42:OI:133:GLN:HE22	1.83	0.43
41:OJ:181:GLU:O	41:OJ:182:PRO:C	2.55	0.43
42:OK:109:THR:OG1	42:OK:411:GLU:O	2.29	0.43
41:PB:37:HIS:O	41:PB:39:ASP:N	2.51	0.43
42:PC:70:LEU:O	42:PC:71:GLU:C	2.56	0.43
41:PD:170:VAL:HG11	41:PD:377:LEU:HG	2.00	0.43
42:PE:88:HIS:C	42:PE:90:GLU:H	2.22	0.43
41:PF:181:GLU:O	41:PF:182:PRO:C	2.55	0.43
41:PF:216:LYS:HB2	41:PF:216:LYS:HE2	1.63	0.43
42:PG:9:VAL:HB	42:PG:68:VAL:HG13	2.00	0.43
42:PG:291:ILE:H	42:PG:291:ILE:HG12	1.41	0.43
42:PI:175:PRO:HB2	42:PI:176:GLN:H	1.62	0.43
41:PJ:117:LEU:HD23	41:PJ:117:LEU:HA	1.71	0.43
41:PJ:130:LEU:HA	41:PJ:130:LEU:HD12	1.64	0.43
41:PJ:328:GLU:O	41:PJ:332:ASN:N	2.51	0.43
41:PJ:390:ARG:HE	41:PJ:390:ARG:HB3	1.44	0.43
41:PJ:390:ARG:HD2	41:PJ:391:ARG:HH21	1.83	0.43
41:PL:202:ILE:H	41:PL:202:ILE:HG13	1.49	0.43
41:PL:240:LEU:O	41:PL:241:ARG:C	2.57	0.43
41:QB:265:PHE:HB3	41:QB:374:ILE:HG12	1.99	0.43
42:QC:11:GLN:N	42:QC:69:ASP:OD1	2.51	0.43
42:QC:16:ILE:HD12	45:QC:501:GTP:HN1	1.82	0.43
41:QD:127:CYS:SG	41:QD:130:LEU:HB2	2.58	0.43
42:QG:93:ILE:HG23	42:QG:114:LEU:HD11	2.00	0.43
42:QI:209:ILE:HG23	42:QI:227:LEU:HD23	2.00	0.43
41:QL:21:TRP:HZ2	41:QL:63:ALA:HB2	1.83	0.43
41:QL:113:VAL:HG13	41:QL:151:LEU:HD23	2.00	0.43
41:RB:323:MET:SD	42:RC:223:THR:HA	2.58	0.43
42:RC:236:SER:O	42:RC:240:ALA:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:RE:91:GLN:HE22	42:RE:125:LEU:HD13	1.83	0.43
42:RG:331:ALA:HA	42:RG:334:THR:HG22	1.98	0.43
41:RJ:3:GLU:OE1	41:RJ:127:CYS:HB2	2.19	0.43
42:RK:65:ALA:H	42:RK:91:GLN:NE2	2.15	0.43
42:RK:184:PRO:HG3	42:RK:394:LYS:HB3	2.00	0.43
41:RL:192:LEU:HG	41:RL:196:THR:HG21	2.01	0.43
42:SC:170:SER:OG	42:SC:171:ILE:N	2.51	0.43
42:SC:260:VAL:HA	42:SC:261:PRO:HD3	1.88	0.43
42:SC:422:ARG:HA	42:SC:425:MET:HB3	1.99	0.43
41:SD:238:THR:HG22	41:SD:241:ARG:HH21	1.83	0.43
41:SF:94:GLN:HB2	41:SF:95:SER:H	1.61	0.43
42:SG:21:TRP:HZ3	42:SG:52:PHE:HB3	1.84	0.43
42:SG:105:ARG:HB3	42:SG:110:ILE:HB	2.00	0.43
42:SG:192:HIS:NE2	42:SG:420:GLU:OE1	2.51	0.43
42:SI:339:ARG:O	42:SI:340:THR:C	2.56	0.43
41:SL:241:ARG:H	41:SL:241:ARG:HG2	1.51	0.43
41:SL:377:LEU:HG	41:SL:380:ARG:HH21	1.82	0.43
42:TC:318:LEU:HB2	42:TC:376:CYS:HB3	2.01	0.43
42:TE:196:GLU:N	42:TE:196:GLU:OE1	2.52	0.43
41:TH:246:LEU:HD21	42:TI:179:THR:HG21	1.98	0.43
41:TH:317:PHE:HB3	41:TH:321:MET:HE1	2.00	0.43
41:TH:342:VAL:HG23	41:TH:344:TRP:HE3	1.82	0.43
42:TI:367:ASP:O	42:TI:368:LEU:C	2.57	0.43
41:TJ:19:LYS:HD3	41:TJ:19:LYS:HA	1.83	0.43
42:TM:133:GLN:HE22	42:TM:242:LEU:HD22	1.82	0.43
41:UD:19:LYS:HA	41:UD:19:LYS:HD2	1.77	0.43
42:UE:385:ALA:HA	42:UE:388:TRP:HE3	1.82	0.43
42:UG:107:HIS:CD2	42:UG:152:LEU:HD13	2.53	0.43
41:UH:305:PRO:HB3	41:UH:310:TYR:CE1	2.53	0.43
42:UK:115:ILE:HG23	42:UK:116:ASP:N	2.34	0.43
41:VH:211:CYS:HA	41:VH:215:LEU:HB3	1.99	0.43
41:VJ:295:ASP:OD2	41:VJ:296:ALA:N	2.51	0.43
42:VK:437:MET:HE3	42:VK:437:MET:HB3	1.92	0.43
41:VL:31:ASP:OD2	41:VL:35:THR:OG1	2.36	0.43
41:VL:77:ARG:HG3	41:VL:90:PHE:HE2	1.83	0.43
42:WE:208:ALA:HB2	42:WE:304:LYS:HG2	1.99	0.43
41:WH:173:PRO:HD3	41:WH:380:ARG:CZ	2.48	0.43
41:WJ:310:TYR:HA	41:WJ:371:SER:HA	2.00	0.43
3:II:41:VAL:HG12	21:3V:250:HIS:CE1	2.52	0.43
4:IL:23:TYR:CD1	41:IN:53:GLU:HB2	2.53	0.43
10:2H:168:PHE:CD2	42:WM:220:GLU:HG2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:2L:256:ARG:HG3	42:TE:58:ALA:H	1.83	0.43
19:3J:276:ARG:HG3	19:3J:277:GLU:H	1.84	0.43
19:3K:194:LEU:HD12	19:3K:201:LEU:HD21	2.01	0.43
19:3L:85:PHE:CZ	42:KM:60:LYS:HB2	2.52	0.43
19:3L:472:VAL:HG21	19:3L:498:VAL:HA	2.01	0.43
20:3N:3:LYS:HD2	20:3N:3:LYS:HA	1.89	0.43
20:3O:481:LYS:HA	20:3O:481:LYS:HD2	1.86	0.43
20:3Q:349:TYR:CZ	20:3Q:353:LYS:HE2	2.54	0.43
21:3T:65:PHE:CZ	41:LD:404:ASP:HB2	2.52	0.43
22:3X:86:SER:O	42:AC:84:ARG:NH1	2.52	0.43
22:3X:90:PRO:HB3	22:3X:107:CYS:SG	2.58	0.43
22:3Y:177:PHE:HE2	42:CE:80:THR:HG22	1.83	0.43
25:4I:278:ASP:N	25:4I:278:ASP:OD1	2.51	0.43
26:4M:88:TYR:O	26:4M:92:GLN:HG2	2.19	0.43
27:4R:122:PRO:HG3	42:WI:128:GLN:HG3	2.00	0.43
32:5N:280:LEU:HD23	32:5N:284:LYS:NZ	2.33	0.43
32:5O:106:LYS:HA	32:5O:106:LYS:HD2	1.32	0.43
33:5S:89:ILE:HG23	33:5S:162:LEU:HD22	2.00	0.43
33:5T:68:ILE:HD12	33:5T:183:LEU:HD23	2.00	0.43
33:5T:170:GLN:HE21	33:5T:170:GLN:HB3	1.58	0.43
33:5V:85:LEU:O	33:5V:89:ILE:HG12	2.19	0.43
33:5V:280:LYS:HA	33:5V:280:LYS:HD2	1.80	0.43
33:5V:284:LYS:HE2	33:5V:284:LYS:HB2	1.49	0.43
34:6A:101:ARG:HA	34:6A:101:ARG:HD3	1.44	0.43
34:6B:452:LYS:HE3	34:6B:452:LYS:HB2	1.40	0.43
34:6F:407:PRO:HG2	34:6G:260:ASP:HA	2.01	0.43
34:6I:68:TYR:CE2	34:6I:71:ARG:HD3	2.53	0.43
34:6L:66:ASP:CB	35:6R:256:THR:HG23	2.46	0.43
35:6V:363:ARG:NH1	35:6V:367:GLU:O	2.51	0.43
37:7C:217:GLY:HA2	37:7C:218:PRO:HD3	1.70	0.43
42:AE:135:PHE:HB2	42:AE:166:LYS:HG2	2.01	0.43
41:AF:358:PRO:HB2	41:AF:361:LEU:HD21	2.00	0.43
42:AK:40:LYS:HE2	42:AK:40:LYS:HB3	1.45	0.43
42:AK:191:THR:HA	42:AK:194:THR:HG22	2.00	0.43
42:AK:209:ILE:CD1	42:AK:231:ILE:HD11	2.49	0.43
41:AL:163:ILE:HD11	41:AL:251:ARG:HG3	2.01	0.43
41:BD:54:ALA:HB3	41:BD:58:LYS:HG3	2.00	0.43
41:BD:70:PRO:O	41:BD:71:GLY:C	2.57	0.43
42:BG:288:VAL:HG21	42:BG:323:VAL:HG23	2.00	0.43
41:BH:342:VAL:HG12	41:BH:345:ILE:H	1.84	0.43
42:BI:66:VAL:CG2	42:BI:93:ILE:HD11	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BK:40:LYS:HB3	42:BK:40:LYS:HE2	1.81	0.43
41:BL:5:VAL:HG23	41:BL:62:ARG:HG2	1.99	0.43
41:BL:170:VAL:HG21	41:BL:377:LEU:HD21	2.01	0.43
42:CC:242:LEU:HD12	42:CC:242:LEU:H	1.84	0.43
41:CD:252:LYS:HE2	42:CE:100:ALA:HA	2.00	0.43
42:CE:228:ASN:OD1	45:CE:501:GTP:N2	2.35	0.43
42:CE:360:PRO:HG3	42:CE:374:ALA:HB2	2.00	0.43
41:CF:117:LEU:HA	41:CF:120:VAL:HG12	2.00	0.43
42:CI:101:ASN:HA	42:CI:143:GLY:HA2	2.00	0.43
41:CJ:32:PRO:HG3	41:CJ:81:PHE:CZ	2.53	0.43
42:CM:223:THR:HG22	42:CM:226:ASN:OD1	2.18	0.43
42:CM:273:ALA:HB2	42:CM:375:VAL:HB	1.99	0.43
42:DE:137:ILE:HG21	42:DE:154:MET:HE1	2.01	0.43
42:DE:214:ARG:HG3	42:DE:215:ARG:HG3	2.01	0.43
42:DE:384:ILE:HG23	42:DE:388:TRP:HZ3	1.83	0.43
42:DG:90:GLU:O	42:DG:92:LEU:N	2.50	0.43
41:DH:382:SER:O	41:DH:386:THR:HG23	2.18	0.43
42:DI:118:VAL:O	42:DI:122:ILE:N	2.39	0.43
42:DK:102:ASN:HD21	42:DK:104:ALA:HB3	1.82	0.43
41:EF:192:LEU:HD21	41:EF:199:THR:HG21	2.00	0.43
42:EG:229:ARG:HD3	42:EG:366:GLY:HA2	1.99	0.43
41:EH:302:ALA:HB3	41:EH:377:LEU:HD11	2.01	0.43
42:EI:188:ILE:HD11	42:EI:391:LEU:HG	2.01	0.43
42:EK:79:ARG:HG3	42:EK:80:THR:HG23	2.00	0.43
42:EM:204:VAL:CG2	42:EM:209:ILE:HD11	2.47	0.43
42:EM:430:LYS:HB3	42:EM:430:LYS:HE2	1.32	0.43
42:FC:11:GLN:C	42:FC:13:GLY:N	2.71	0.43
42:FC:51:THR:OG1	42:FC:52:PHE:N	2.50	0.43
42:FC:174:ALA:HB3	42:FC:177:VAL:HG22	2.00	0.43
42:FC:211:ASP:O	42:FC:214:ARG:N	2.51	0.43
41:FD:271:ALA:CB	41:FD:365:ALA:HB3	2.48	0.43
42:FG:406:HIS:HA	42:FG:409:VAL:HG12	1.99	0.43
41:FJ:173:PRO:HD2	41:FJ:205:GLU:HG3	2.01	0.43
42:FK:169:PHE:CE1	42:FK:202:PHE:HB3	2.54	0.43
42:FK:346:TRP:N	42:FK:439:SER:O	2.51	0.43
41:FL:25:SER:OG	41:FL:26:ASP:N	2.50	0.43
41:FL:309:ARG:NH1	41:FL:342:VAL:HB	2.34	0.43
41:FL:313:VAL:HG11	41:FL:341:PHE:CE1	2.54	0.43
41:FL:323:MET:CG	41:FL:353:VAL:HG11	2.48	0.43
42:FM:195:LEU:HD23	42:FM:266:HIS:HE1	1.83	0.43
41:GD:97:ALA:HA	41:GD:103:LYS:HD2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:GE:395:PHE:HD2	42:GE:422:ARG:HD3	1.84	0.43
41:GH:350:LYS:HE2	41:GH:350:LYS:HB3	1.90	0.43
42:GI:414:GLU:HB2	42:GI:417:GLU:HG2	2.00	0.43
42:GK:423:GLU:HA	42:GK:426:ALA:HB3	2.01	0.43
41:GL:345:ILE:HA	42:GM:394:LYS:HZ1	1.83	0.43
42:GM:125:LEU:O	42:GM:129:CYS:SG	2.76	0.43
42:GM:339:ARG:HD3	42:GM:339:ARG:HA	1.40	0.43
41:HF:22:GLU:HG3	41:HF:81:PHE:CE1	2.54	0.43
42:HG:99:ALA:CB	42:HG:144:GLY:HA3	2.48	0.43
42:HG:102:ASN:OD1	42:HG:105:ARG:HB2	2.19	0.43
42:HG:109:THR:O	42:HG:110:ILE:C	2.57	0.43
42:HG:376:CYS:SG	42:HG:376:CYS:O	2.76	0.43
41:HH:25:SER:OG	41:HH:51:TYR:OH	2.34	0.43
42:HK:53:PHE:HB3	42:HK:61:HIS:HB3	2.00	0.43
42:HK:245:ASP:OD1	42:HK:245:ASP:N	2.51	0.43
42:IC:165:SER:HB3	42:IC:256:GLN:HE22	1.83	0.43
41:ID:163:ILE:HG12	41:ID:251:ARG:HH11	1.83	0.43
42:IE:205:ASP:OD2	42:IE:207:GLU:HB2	2.18	0.43
41:IJ:62:ARG:HG3	41:IJ:62:ARG:O	2.18	0.43
42:IK:243:ARG:HB2	42:IK:244:PHE:CE2	2.54	0.43
41:JF:106:TYR:HE2	41:JF:403:MET:HB3	1.83	0.43
42:JI:138:PHE:HZ	42:JI:235:VAL:HG21	1.83	0.43
41:JJ:21:TRP:HZ3	41:JJ:63:ALA:HB2	1.83	0.43
42:JK:436:GLY:O	42:JK:437:MET:C	2.57	0.43
41:JL:346:PRO:HG3	42:JM:394:LYS:HB3	2.00	0.43
42:JM:273:ALA:HB2	42:JM:375:VAL:HG12	2.00	0.43
42:KG:66:VAL:HG11	42:KG:122:ILE:HD11	1.99	0.43
41:KH:318:ARG:HB2	41:KH:364:SER:HB3	1.99	0.43
42:KK:218:ASP:OD2	42:KK:280:LYS:NZ	2.49	0.43
41:KL:2:ARG:HG2	41:KL:131:GLN:HG3	1.99	0.43
42:KM:167:LEU:HB3	42:KM:202:PHE:CE2	2.51	0.43
41:KN:266:PHE:HE2	41:KN:370:ASN:HB2	1.83	0.43
42:LC:211:ASP:OD1	42:LC:214:ARG:NH2	2.51	0.43
41:LD:3:GLU:H	41:LD:3:GLU:HG2	1.39	0.43
42:LE:218:ASP:H	42:LE:277:SER:HB3	1.83	0.43
42:LG:28:HIS:CE1	42:LG:243:ARG:HD2	2.53	0.43
41:LJ:221:THR:OG1	41:LJ:222:TYR:N	2.51	0.43
41:LL:256:ASN:HB3	42:LM:182:VAL:HG22	2.00	0.43
41:LL:309:ARG:H	41:LL:372:THR:HB	1.84	0.43
42:MI:167:LEU:HD21	42:MI:255:PHE:CZ	2.52	0.43
41:MJ:22:GLU:HA	41:MJ:81:PHE:CD2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:ML:183:TYR:CD2	41:ML:398:TYR:HD2	2.36	0.43
42:MM:235:VAL:HA	42:MM:238:ILE:HD12	2.00	0.43
41:MN:305:PRO:HB2	41:MN:340:TYR:CE1	2.54	0.43
42:NA:114:LEU:HD13	42:NA:114:LEU:HA	1.71	0.43
42:NC:332:ILE:HG23	42:NC:351:PHE:CD1	2.54	0.43
41:ND:222:TYR:HA	41:ND:225:LEU:HD12	2.01	0.43
42:NG:121:ARG:HA	42:NG:121:ARG:HD2	1.81	0.43
41:NH:21:TRP:CZ2	41:NH:63:ALA:HB2	2.53	0.43
41:NH:214:THR:O	41:NH:216:LYS:N	2.51	0.43
41:NH:293:MET:HE2	41:NH:293:MET:HB2	1.78	0.43
42:NI:311:LYS:HE2	42:NI:311:LYS:HB2	1.70	0.43
41:OB:113:VAL:HG22	41:OB:117:LEU:HD22	1.99	0.43
42:OE:346:TRP:HB3	41:OF:391:ARG:HD2	2.00	0.43
41:OJ:117:LEU:HB3	41:OJ:121:ARG:HH12	1.82	0.43
42:OK:1:MET:N	42:OK:3:GLU:OE2	2.38	0.43
41:OL:86:ARG:HG2	41:OL:88:ASP:H	1.82	0.43
41:OL:359:ARG:HA	41:OL:359:ARG:HD2	1.84	0.43
42:PA:251:ASP:N	42:PA:254:GLU:HG2	2.33	0.43
42:PA:296:PHE:HE1	42:PA:317:LEU:HD11	1.84	0.43
42:PC:432:TYR:HA	42:PC:435:VAL:HG12	2.00	0.43
42:PE:2:ARG:HA	42:PE:2:ARG:HD3	1.39	0.43
42:PE:5:ILE:HD13	42:PE:125:LEU:HB3	2.00	0.43
42:PG:103:TYR:CD1	42:PG:189:LEU:HD13	2.53	0.43
42:PG:150:THR:O	42:PG:151:SER:C	2.54	0.43
42:PG:175:PRO:HB2	42:PG:176:GLN:H	1.28	0.43
42:PG:315:CYS:O	42:PG:317:LEU:N	2.52	0.43
42:PI:261:PRO:HB2	42:PI:262:TYR:H	1.49	0.43
41:PJ:233:MET:C	41:PJ:235:GLY:H	2.22	0.43
42:PK:164:LYS:H	42:PK:164:LYS:HG2	1.50	0.43
42:PK:271:THR:HG21	42:PK:295:CYS:HA	2.01	0.43
41:PL:310:TYR:HA	41:PL:371:SER:CA	2.46	0.43
41:QB:241:ARG:HG3	41:QB:242:PHE:CD2	2.53	0.43
41:QH:388:MET:HE3	41:QH:388:MET:HB3	1.48	0.43
42:QI:215:ARG:HD3	42:QI:215:ARG:HA	1.64	0.43
41:QJ:141:GLY:HA3	43:QJ:501:GDP:O3A	2.18	0.43
41:QL:232:THR:O	41:QL:233:MET:C	2.55	0.43
41:QL:260:PHE:O	41:QL:261:PRO:C	2.57	0.43
41:RB:3:GLU:H	41:RB:131:GLN:H	1.65	0.43
41:RB:193:VAL:HG11	41:RB:418:LEU:HG	2.00	0.43
41:RD:100:ASN:HA	41:RD:398:TYR:CE1	2.53	0.43
41:RD:107:THR:O	41:RD:108:GLU:C	2.57	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:RE:395:PHE:O	42:RE:399:TYR:N	2.46	0.43
42:RI:104:ALA:O	42:RI:107:HIS:N	2.40	0.43
42:RI:169:PHE:CD2	42:RI:235:VAL:HG22	2.53	0.43
42:RK:108:TYR:O	42:RK:112:LYS:NZ	2.51	0.43
42:SE:141:PHE:HB3	42:SE:173:PRO:HD3	2.01	0.43
42:SG:48:SER:O	42:SG:48:SER:OG	2.36	0.43
41:SH:113:VAL:HG11	41:SH:150:LEU:HD23	2.01	0.43
41:SH:170:VAL:HG11	41:SH:377:LEU:HD21	2.00	0.43
41:SH:318:ARG:HB2	41:SH:364:SER:HB3	2.00	0.43
42:SK:406:HIS:HA	42:SK:409:VAL:HG12	1.99	0.43
41:SL:67:ASP:HB3	41:SL:73:MET:HE3	2.00	0.43
41:SL:101:TRP:O	41:SL:102:ALA:C	2.56	0.43
41:SL:379:LYS:HA	41:SL:379:LYS:HD2	1.35	0.43
41:TD:174:LYS:HB3	41:TD:205:GLU:HG3	1.99	0.43
42:TE:101:ASN:HA	42:TE:143:GLY:HA2	2.00	0.43
41:TH:262:ARG:HE	41:TH:418:LEU:HA	1.82	0.43
42:TI:185:TYR:CE1	42:TI:405:VAL:HG23	2.53	0.43
41:TJ:100:ASN:HB3	41:TJ:103:LYS:HB2	2.01	0.43
42:TK:125:LEU:HD12	42:TK:125:LEU:HA	1.81	0.43
42:TK:269:LEU:HD13	42:TK:381:THR:HG23	1.99	0.43
41:TL:286:VAL:HB	41:TL:325:GLU:HB3	2.01	0.43
41:TL:324:LYS:HZ1	42:TM:221:ARG:HA	1.81	0.43
41:TL:328:GLU:OE1	41:TL:329:GLN:NE2	2.47	0.43
42:UC:100:ALA:O	42:UC:101:ASN:C	2.56	0.43
42:UE:398:MET:HB3	42:UE:403:ALA:HB3	2.01	0.43
41:UH:117:LEU:HA	41:UH:120:VAL:HG12	1.99	0.43
41:UH:259:PRO:HA	42:UI:404:PHE:CD2	2.53	0.43
42:UM:291:ILE:HG22	42:UM:375:VAL:HG23	2.01	0.43
41:VD:108:GLU:OE2	41:VD:108:GLU:N	2.51	0.43
41:VF:15:GLN:HE21	41:VF:15:GLN:HB2	1.64	0.43
41:VF:263:LEU:HD13	41:VF:311:LEU:HD13	1.99	0.43
42:VI:54:SER:HG	42:WI:285:GLN:HE22	1.66	0.43
42:VK:269:LEU:HD22	42:VK:303:VAL:HG21	2.01	0.43
42:VM:206:ASN:HD21	45:VM:501:GTP:HN22	1.66	0.43
41:WN:354:CYS:SG	41:WN:355:ASP:N	2.91	0.43
2:1E:76:ILE:HG12	42:HG:342:GLN:NE2	2.30	0.43
5:1O:60:PRO:HG3	42:KG:437:MET:HE3	1.99	0.43
9:2D:376:PRO:HG3	41:IH:219:THR:O	2.17	0.43
15:3A:91:SER:HA	41:JJ:355:ASP:CB	2.48	0.43
20:3O:569:ARG:HD3	20:3O:585:VAL:HG11	2.00	0.43
22:3Z:254:THR:HA	42:EI:219:ILE:HD13	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:4J:143:ARG:HD3	25:4J:143:ARG:HA	1.78	0.43
26:4L:221:GLU:OE1	36:6Z:59:LYS:HG3	2.19	0.43
27:4T:105:TYR:OH	27:4T:134:MET:O	2.32	0.43
28:4V:116:THR:HB	28:4V:119:ASP:H	1.83	0.43
30:5A:149:HIS:O	30:5A:153:LYS:HG2	2.18	0.43
31:5E:12:VAL:O	31:5E:16:TYR:N	2.49	0.43
31:5E:126:LEU:O	31:5E:128:CYS:N	2.52	0.43
31:5J:105:VAL:HG12	31:5J:107:GLN:H	1.82	0.43
32:5M:160:GLN:HB2	32:5M:238:LEU:HD13	2.00	0.43
33:5R:92:LEU:HD11	33:5R:239:LEU:HD23	1.99	0.43
33:5R:227:ASP:O	33:5R:231:ALA:N	2.47	0.43
33:5T:307:LYS:HZ3	33:5T:307:LYS:HG2	1.73	0.43
33:5V:281:TRP:C	33:5V:283:GLU:H	2.22	0.43
34:6C:261:LYS:HE3	34:6C:300:TRP:HE1	1.83	0.43
34:6C:344:ASN:O	34:6C:348:THR:HG23	2.18	0.43
34:6G:229:CYS:HB3	34:6G:332:THR:HG23	2.00	0.43
34:6H:437:ARG:HA	34:6H:437:ARG:HD3	1.77	0.43
34:6H:478:ARG:HA	34:6H:478:ARG:HD3	1.85	0.43
34:6I:71:ARG:NE	34:6I:73:GLN:HB2	2.33	0.43
34:6M:168:ILE:HG21	35:6W:242:PRO:HB2	1.99	0.43
34:6M:274:LEU:HD21	34:6N:398:THR:HG23	2.00	0.43
35:6Q:224:ILE:HG23	35:6R:359:GLN:HB3	2.01	0.43
35:6S:159:ARG:HE	35:6S:159:ARG:HB3	1.57	0.43
35:6U:200:GLN:OE1	35:6V:27:TYR:OH	2.30	0.43
35:6U:203:LEU:O	35:6U:207:HIS:ND1	2.41	0.43
42:AG:37:PRO:O	42:AG:39:ASP:N	2.52	0.43
41:AH:228:LEU:HD12	41:AH:228:LEU:HA	1.84	0.43
42:AI:153:LEU:HD12	42:AI:153:LEU:HA	1.70	0.43
42:BC:239:THR:OG1	42:BC:243:ARG:NH1	2.50	0.43
42:BC:325:PRO:HB2	41:BD:208:TYR:OH	2.18	0.43
42:BG:70:LEU:HA	42:BG:95:GLY:HA3	1.99	0.43
42:BG:116:ASP:OD1	42:BG:117:LEU:N	2.51	0.43
42:BI:4:CYS:HB3	42:BI:136:LEU:HD12	2.00	0.43
42:BI:384:ILE:HG22	42:BI:432:TYR:CE2	2.54	0.43
42:BI:414:GLU:C	42:BI:416:GLY:H	2.22	0.43
41:BJ:101:TRP:CZ2	41:BJ:149:THR:HG21	2.53	0.43
41:CB:330:MET:HB3	41:CB:349:VAL:HG11	2.01	0.43
42:CC:34:GLY:HA3	42:CC:60:LYS:HE2	1.99	0.43
42:CC:217:LEU:HB3	42:CC:367:ASP:OD1	2.17	0.43
42:CC:276:ILE:HD12	42:CC:276:ILE:HA	1.90	0.43
41:CD:207:LEU:HD13	41:CD:207:LEU:HA	1.75	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:CF:90:PHE:O	41:CF:91:VAL:C	2.57	0.43
41:CF:102:ALA:O	41:CF:107:THR:HG22	2.18	0.43
41:CH:19:LYS:HE2	41:CH:19:LYS:HB3	1.89	0.43
42:CK:21:TRP:CZ3	42:CK:63:PRO:HB3	2.53	0.43
41:CL:42:LEU:HD23	41:CL:356:ILE:HD11	1.99	0.43
41:CL:325:GLU:OE2	41:CL:325:GLU:N	2.40	0.43
42:CM:115:ILE:HA	42:CM:118:VAL:HG12	2.00	0.43
42:CM:189:LEU:HD21	42:CM:418:PHE:HD1	1.84	0.43
41:DB:324:LYS:HB2	42:DC:222:PRO:HD2	2.00	0.43
42:DG:204:VAL:HG11	42:DG:231:ILE:HD11	2.00	0.43
42:DG:264:ARG:NH2	42:DG:424:ASP:OD1	2.38	0.43
41:DH:5:VAL:HG22	41:DH:62:ARG:HD2	2.00	0.43
41:DH:45:GLU:C	41:DH:47:ILE:H	2.22	0.43
41:DH:181:GLU:O	41:DH:183:TYR:N	2.44	0.43
41:DH:200:TYR:N	41:DH:200:TYR:HD1	2.16	0.43
41:DJ:324:LYS:HB3	42:DK:222:PRO:CD	2.42	0.43
41:DJ:347:ASN:C	42:DK:181:VAL:HG23	2.39	0.43
42:DK:70:LEU:HG	42:DK:145:THR:OG1	2.18	0.43
42:DK:327:ASP:O	42:DK:330:ALA:N	2.52	0.43
41:DL:170:VAL:HG11	41:DL:377:LEU:HD11	2.00	0.43
42:DM:381:THR:HG22	42:DM:383:ALA:H	1.84	0.43
42:EC:379:SER:HB3	42:EC:381:THR:HG23	2.00	0.43
42:EE:408:TYR:O	42:EE:409:VAL:C	2.57	0.43
41:EJ:171:PRO:HB3	41:EJ:181:GLU:OE1	2.19	0.43
42:EK:300:ASN:O	42:EK:301:GLN:C	2.57	0.43
42:EK:388:TRP:HB3	42:EK:425:MET:SD	2.59	0.43
42:EM:10:GLY:O	42:EM:11:GLN:C	2.57	0.43
42:EM:184:PRO:O	42:EM:185:TYR:C	2.56	0.43
42:EM:306:ASP:HB3	42:EM:309:HIS:HB3	2.01	0.43
42:FC:276:ILE:HG23	42:FC:281:ALA:HB2	2.01	0.43
41:FD:226:ASN:O	41:FD:229:VAL:HG12	2.17	0.43
42:FE:258:ASN:ND2	41:FF:178:THR:HB	2.32	0.43
42:FG:310:GLY:HA3	42:FG:383:ALA:HB2	2.01	0.43
41:FJ:137:HIS:NE2	41:FJ:168:SER:HB2	2.33	0.43
41:FJ:210:ILE:HG22	41:FJ:298:ASN:HA	2.01	0.43
41:FJ:303:CYS:SG	41:FJ:377:LEU:HB2	2.57	0.43
42:FK:21:TRP:HH2	42:FK:52:PHE:HB2	1.83	0.43
42:FK:259:LEU:O	42:FK:260:VAL:C	2.56	0.43
41:FL:280:GLN:H	41:FL:280:GLN:HG2	1.44	0.43
41:FL:323:MET:HB2	42:FM:224:TYR:CE1	2.54	0.43
42:FM:2:ARG:NH2	42:FM:243:ARG:O	2.46	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:GD:259:PRO:HB2	41:GD:260:PHE:H	1.61	0.43
41:GH:130:LEU:HD22	41:GH:162:ARG:HG3	2.01	0.43
41:GJ:202:ILE:HG21	41:GJ:229:VAL:HG23	2.00	0.43
41:GL:324:LYS:CG	42:GM:222:PRO:HD2	2.49	0.43
42:GM:162:GLY:O	42:GM:164:LYS:N	2.52	0.43
42:GM:208:ALA:C	42:GM:210:TYR:H	2.22	0.43
41:HD:215:LEU:HD12	41:HD:215:LEU:HA	1.76	0.43
41:HD:320:ARG:HA	41:HD:320:ARG:HD2	1.56	0.43
42:HG:3:GLU:H	42:HG:3:GLU:HG2	1.48	0.43
42:HG:23:LEU:O	42:HG:24:TYR:C	2.56	0.43
41:HJ:257:MET:HE3	41:HJ:257:MET:HB3	1.85	0.43
42:HK:328:VAL:O	42:HK:332:ILE:HG12	2.19	0.43
41:HL:52:ASN:OD1	41:HL:62:ARG:NH2	2.51	0.43
41:ID:245:GLN:HB2	41:ID:323:MET:HE1	2.01	0.43
42:IE:363:VAL:O	42:IE:364:PRO:C	2.57	0.43
41:IH:304:ASP:OD1	41:IH:304:ASP:N	2.51	0.43
41:IJ:36:TYR:CE1	41:IJ:44:LEU:HD13	2.53	0.43
42:IM:16:ILE:HD11	42:IM:171:ILE:HD11	2.00	0.43
42:JE:234:ILE:HD13	42:JE:302:MET:HE1	2.01	0.43
41:JF:236:VAL:HG22	41:JF:368:ILE:HD11	2.01	0.43
42:JG:180:ALA:HB3	42:JG:183:GLU:HG2	2.00	0.43
41:JL:1:MET:HB3	41:JL:2:ARG:H	1.57	0.43
41:JL:312:THR:HG22	42:JM:181:VAL:HG11	2.00	0.43
42:JM:352:LYS:HA	42:JM:352:LYS:HD2	1.78	0.43
42:KC:280:LYS:HB2	42:KC:280:LYS:HE2	1.85	0.43
41:KD:211:CYS:HA	41:KD:215:LEU:HD12	1.99	0.43
41:KD:263:LEU:HG	41:KD:422:TYR:CE1	2.51	0.43
41:KH:67:ASP:OD1	41:KH:68:LEU:N	2.49	0.43
42:KK:406:HIS:HA	42:KK:409:VAL:HG12	1.99	0.43
41:KL:2:ARG:NH1	42:KM:72:PRO:HD2	2.32	0.43
42:LE:175:PRO:HB3	42:LE:390:ARG:HD2	2.00	0.43
41:LF:61:PRO:HD3	41:LF:84:ILE:HG12	1.99	0.43
41:LH:149:THR:HA	41:LH:152:ILE:HD12	1.99	0.43
41:LL:211:CYS:HA	41:LL:215:LEU:HD12	2.00	0.43
42:MC:326:LYS:CG	41:MD:220:PRO:HD2	2.44	0.43
41:MD:2:ARG:H	41:MD:2:ARG:HG2	1.53	0.43
41:MF:110:ALA:HA	41:MF:113:VAL:HG22	2.00	0.43
42:MG:163:LYS:HD2	42:MG:163:LYS:HA	1.47	0.43
42:NA:104:ALA:HA	42:NA:108:TYR:CD2	2.53	0.43
42:NC:345:ASP:OD1	42:NC:345:ASP:N	2.51	0.43
41:ND:33:THR:OG1	41:ND:34:GLY:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:ND:314:ALA:HB3	41:ND:368:ILE:HG23	2.01	0.43
42:NE:51:THR:HB	42:NE:243:ARG:HG2	2.00	0.43
41:NF:262:ARG:O	41:NF:263:LEU:C	2.56	0.43
41:NF:282:ARG:CZ	41:NF:284:LEU:HA	2.48	0.43
42:NG:163:LYS:HA	42:NG:163:LYS:HD2	1.38	0.43
42:NG:168:GLU:HG3	42:NG:201:ALA:HA	2.00	0.43
41:NH:361:LEU:H	41:NH:361:LEU:HG	1.56	0.43
41:OB:56:GLY:C	41:OB:58:LYS:H	2.22	0.43
41:OB:84:ILE:O	41:OB:85:PHE:C	2.57	0.43
41:OB:285:THR:O	41:OB:286:VAL:C	2.56	0.43
42:OC:251:ASP:H	42:OC:254:GLU:CD	2.22	0.43
41:OD:261:PRO:HG3	42:OE:406:HIS:CG	2.53	0.43
41:OD:296:ALA:HB2	41:OD:306:ARG:NH1	2.32	0.43
42:OG:218:ASP:O	42:OG:219:ILE:C	2.57	0.43
42:OG:262:TYR:O	42:OG:263:PRO:C	2.57	0.43
41:OJ:271:ALA:O	41:OJ:273:LEU:N	2.52	0.43
42:OK:269:LEU:HD22	42:OK:303:VAL:HB	2.01	0.43
42:OK:286:LEU:HA	42:OK:290:GLU:OE2	2.19	0.43
42:PA:368:LEU:H	42:PA:368:LEU:HD23	1.84	0.43
41:PB:384:GLN:O	41:PB:385:PHE:C	2.56	0.43
42:PC:71:GLU:H	42:PC:71:GLU:HG3	1.55	0.43
41:PD:104:GLY:HA3	41:PD:146:GLY:HA3	2.00	0.43
42:PE:49:PHE:CE2	42:PE:55:GLU:HB2	2.54	0.43
42:PE:109:THR:O	42:PE:110:ILE:C	2.56	0.43
42:PE:182:VAL:O	42:PE:183:GLU:C	2.57	0.43
42:PE:256:GLN:H	42:PE:256:GLN:HG3	1.50	0.43
42:PE:385:ALA:HA	42:PE:388:TRP:HD1	1.82	0.43
41:PF:354:CYS:SG	41:PF:355:ASP:N	2.91	0.43
42:PG:88:HIS:HB3	42:PG:91:GLN:CB	2.47	0.43
41:PH:36:TYR:CE1	41:PH:43:GLN:HG2	2.54	0.43
41:PH:115:SER:O	41:PH:118:ASP:HB2	2.18	0.43
41:PH:273:LEU:H	41:PH:292:GLN:HE22	1.66	0.43
41:PH:374:ILE:HG13	41:PH:377:LEU:HD22	2.00	0.43
42:PI:291:ILE:HG23	42:PI:375:VAL:HG11	2.00	0.43
42:PI:319:TYR:CD2	42:PI:375:VAL:HB	2.54	0.43
42:PI:409:VAL:O	42:PI:411:GLU:N	2.52	0.43
41:PJ:285:THR:HB	41:PJ:287:PRO:HD2	2.01	0.43
41:PJ:373:ALA:C	41:PJ:375:GLN:N	2.69	0.43
41:PL:15:GLN:HB3	41:PL:226:ASN:HD21	1.84	0.43
41:PL:198:GLU:HA	41:PL:266:PHE:CE2	2.50	0.43
41:QD:303:CYS:HA	41:QD:376:GLU:OE2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:QF:256:ASN:HD21	42:QG:180:ALA:HA	1.82	0.43
42:QG:202:PHE:HB2	42:QG:268:PRO:HG2	2.01	0.43
41:QH:77:ARG:H	41:QH:77:ARG:HG3	1.56	0.43
41:QJ:46:ARG:HA	41:QJ:46:ARG:HD3	1.30	0.43
41:QJ:135:LEU:O	41:QJ:166:THR:HA	2.18	0.43
41:QJ:389:PHE:HZ	41:QJ:405:GLU:HG2	1.83	0.43
41:QL:45:GLU:C	41:QL:47:ILE:H	2.22	0.43
41:RD:40:SER:O	41:RD:43:GLN:HG3	2.18	0.43
41:RF:7:LEU:HD21	41:RF:120:VAL:HG11	1.99	0.43
41:RH:159:TYR:HB3	41:RH:162:ARG:HG3	2.00	0.43
41:RH:350:LYS:HD2	41:RH:350:LYS:HA	1.78	0.43
42:RI:7:VAL:HG23	42:RI:66:VAL:HB	2.01	0.43
42:RI:260:VAL:HG11	42:RI:266:HIS:HA	2.01	0.43
41:RJ:5:VAL:HG13	41:RJ:123:GLU:OE2	2.18	0.43
41:RJ:169:VAL:HG13	41:RJ:202:ILE:O	2.17	0.43
41:RJ:322:SER:O	41:RJ:323:MET:C	2.57	0.43
42:RK:64:ARG:HE	42:RK:128:GLN:NE2	2.14	0.43
41:RL:65:LEU:HD22	41:RL:90:PHE:CE1	2.54	0.43
41:RL:200:TYR:CD1	41:RL:266:PHE:HB2	2.53	0.43
41:SF:296:ALA:O	41:SF:297:LYS:C	2.57	0.43
42:SG:56:THR:HG21	42:SG:60:LYS:HE3	2.00	0.43
41:SH:73:MET:HA	41:SH:76:VAL:HG22	2.01	0.43
42:SI:273:ALA:HB3	42:SI:274:PRO:HD3	2.01	0.43
41:SJ:178:THR:OG1	41:SJ:181:GLU:HG2	2.19	0.43
42:SK:91:GLN:HE22	42:SK:121:ARG:HH21	1.66	0.43
42:SK:326:LYS:HA	41:SL:208:TYR:HE1	1.84	0.43
41:SL:165:ASN:HD22	41:SL:165:ASN:HA	1.59	0.43
41:SL:393:ALA:O	41:SL:395:LEU:N	2.52	0.43
42:SM:317:LEU:HB3	42:SM:319:TYR:CE1	2.52	0.43
42:TC:175:PRO:HA	42:TC:391:LEU:HD21	1.99	0.43
42:TE:88:HIS:HB3	42:TE:121:ARG:HH12	1.84	0.43
42:TG:51:THR:HG21	42:TG:242:LEU:O	2.19	0.43
42:TG:71:GLU:HG2	42:TG:73:THR:HG22	2.01	0.43
42:TI:3:GLU:CG	42:TI:129:CYS:HB2	2.46	0.43
42:TI:121:ARG:HA	42:TI:121:ARG:HD2	1.75	0.43
42:TI:205:ASP:HB3	42:TI:303:VAL:HG13	2.00	0.43
42:TI:287:SER:O	42:TI:288:VAL:C	2.57	0.43
41:TJ:105:HIS:CD2	41:TJ:150:LEU:HB2	2.54	0.43
42:TK:403:ALA:O	42:TK:404:PHE:C	2.57	0.43
41:TL:358:PRO:HG2	41:TL:361:LEU:HB2	2.00	0.43
42:UC:66:VAL:HG11	42:UC:122:ILE:HG12	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:UC:247:ALA:O	42:UC:248:LEU:C	2.56	0.43
41:UD:255:VAL:HG11	42:UE:100:ALA:O	2.18	0.43
41:UH:95:SER:OG	41:UH:96:GLY:N	2.51	0.43
42:UI:236:SER:OG	42:UI:243:ARG:NH2	2.42	0.43
42:UI:260:VAL:HG23	42:UI:265:ILE:HB	2.00	0.43
42:UI:274:PRO:HB2	42:UI:371:VAL:HG11	2.01	0.43
41:UJ:12:CYS:HB2	43:UJ:501:GDP:N1	1.90	0.43
41:UJ:236:VAL:HG13	41:UJ:237:THR:HG23	2.01	0.43
42:UK:177:VAL:HG11	42:UK:207:GLU:OE1	2.18	0.43
42:UK:210:TYR:O	42:UK:214:ARG:HB2	2.19	0.43
42:UK:384:ILE:HD12	42:UK:384:ILE:HA	1.64	0.43
41:UL:152:ILE:HG22	41:UL:195:ASN:HB3	2.01	0.43
41:UL:221:THR:N	41:UL:224:ASP:OD2	2.47	0.43
41:VD:229:VAL:HG12	41:VD:233:MET:HE3	2.00	0.43
42:VE:395:PHE:HE2	42:VE:422:ARG:HB2	1.84	0.43
42:VG:222:PRO:HB3	42:VG:226:ASN:HD21	1.83	0.43
41:VH:403:MET:HG2	41:VH:404:ASP:H	1.83	0.43
41:VJ:215:LEU:HD21	41:VJ:273:LEU:HB3	2.01	0.43
41:VL:239:CYS:HB2	41:VL:248:ALA:H	1.84	0.43
42:WC:5:ILE:HG12	42:WC:64:ARG:HG2	2.00	0.43
41:WD:293:MET:HB3	41:WD:367:PHE:CD1	2.52	0.43
42:WE:60:LYS:HA	42:WE:60:LYS:HD2	1.79	0.43
41:WH:245:GLN:HB3	41:WH:246:LEU:H	1.67	0.43
42:WI:56:THR:O	42:WI:57:GLY:C	2.56	0.43
42:WI:124:LYS:HE3	42:WI:124:LYS:HB2	1.54	0.43
42:WI:386:GLU:H	42:WI:386:GLU:HG3	1.66	0.43
19:3J:266:TYR:HB2	19:3J:329:PHE:HE2	1.84	0.43
19:3K:187:ASP:O	19:3K:191:GLN:HG2	2.19	0.43
20:3P:102:ASN:HD21	42:AI:46:ASP:HB3	1.84	0.43
20:3P:164:LEU:HA	20:3P:167:ILE:HG22	2.00	0.43
22:3Y:38:MET:C	22:3Y:40:GLY:H	2.22	0.43
22:4A:106:ASN:HD21	42:BK:277:SER:HB3	1.84	0.43
24:4F:136:GLU:CD	42:HC:370:LYS:HB3	2.39	0.43
27:4O:53:VAL:HG22	41:AB:336:LYS:HG2	2.00	0.43
27:4T:121:PHE:CE2	42:WM:130:THR:HG22	2.53	0.43
27:4T:216:GLN:O	27:4T:218:ARG:N	2.52	0.43
30:5A:74:LYS:O	30:5A:78:LEU:N	2.43	0.43
31:5G:80:LEU:HD13	31:5G:100:LYS:HD3	2.01	0.43
31:5G:126:LEU:HD23	42:OI:84:ARG:NH2	2.33	0.43
32:5L:282:LEU:HA	32:5L:372:LEU:HD13	2.00	0.43
32:5N:97:ARG:HE	32:5N:97:ARG:HB3	1.65	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:5T:73:ARG:HH21	33:5T:74:TRP:HD1	1.66	0.43
34:6A:190:ALA:HA	34:6A:484:LEU:HD13	2.00	0.43
34:6B:94:TYR:HB2	34:6C:211:VAL:HA	2.00	0.43
34:6B:111:ASN:OD1	34:6B:115:HIS:NE2	2.51	0.43
34:6C:165:ASP:O	34:6C:168:ILE:HG22	2.18	0.43
34:6C:230:GLN:HG2	34:6C:234:LYS:HE2	2.01	0.43
34:6G:372:ILE:HD12	34:6G:452:LYS:HE2	2.01	0.43
34:6H:192:LEU:HB2	34:6H:226:ILE:HG13	1.99	0.43
35:6Q:228:CYS:HB3	35:6R:356:ARG:HG2	2.00	0.43
35:6R:80:GLU:HA	35:6R:83:GLN:HB2	2.00	0.43
35:6R:263:GLU:O	35:6R:267:ARG:HG2	2.19	0.43
35:6T:172:VAL:HG13	35:6T:176:LEU:HD23	2.01	0.43
35:6W:50:LYS:H	35:6W:50:LYS:HG2	1.37	0.43
42:AE:29:GLY:O	42:AE:37:PRO:HD2	2.19	0.43
42:AE:51:THR:HG23	42:AE:52:PHE:HD2	1.83	0.43
42:AG:264:ARG:HA	42:AG:264:ARG:HD2	1.76	0.43
41:AH:314:ALA:HB3	41:AH:368:ILE:HG13	1.99	0.43
41:BD:376:GLU:O	41:BD:377:LEU:C	2.57	0.43
41:BD:395:LEU:HD23	41:BD:395:LEU:HA	1.71	0.43
42:BG:382:THR:HA	42:BG:432:TYR:HE1	1.84	0.43
42:BK:238:ILE:HG23	42:BK:255:PHE:HE2	1.84	0.43
41:CB:139:LEU:HG	41:CB:168:SER:HB3	2.00	0.43
42:CC:96:LYS:HE2	42:CC:96:LYS:HB2	1.53	0.43
42:CC:348:PRO:HB2	41:CD:384:GLN:HE21	1.83	0.43
41:CD:311:LEU:HD11	41:CD:372:THR:HG23	1.99	0.43
42:CG:238:ILE:HG12	42:CG:378:LEU:HD11	2.00	0.43
42:CG:432:TYR:HA	42:CG:435:VAL:CG1	2.49	0.43
42:CI:128:GLN:NE2	42:DI:285:GLN:HB3	2.31	0.43
42:CI:128:GLN:NE2	42:DI:285:GLN:OE1	2.51	0.43
42:CK:209:ILE:HG12	42:CK:302:MET:HG3	2.00	0.43
42:CK:406:HIS:HA	42:CK:409:VAL:HG12	2.01	0.43
41:CL:19:LYS:HD2	41:CL:226:ASN:HB2	2.01	0.43
41:CL:253:LEU:O	41:CL:257:MET:HE2	2.19	0.43
42:CM:52:PHE:CE2	42:CM:243:ARG:HD2	2.53	0.43
42:DC:65:ALA:H	42:DC:91:GLN:NE2	2.17	0.43
42:DI:107:HIS:HE1	42:DI:148:GLY:HA2	1.82	0.43
41:DJ:2:ARG:HH22	42:DK:73:THR:HG1	1.63	0.43
41:DJ:201:CYS:SG	41:DJ:374:ILE:HD11	2.59	0.43
41:DJ:293:MET:HE3	41:DJ:293:MET:HB3	1.75	0.43
41:DJ:311:LEU:HD23	41:DJ:344:TRP:HZ2	1.83	0.43
42:DK:93:ILE:H	42:DK:93:ILE:HG12	1.63	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DK:431:ASP:O	42:DK:435:VAL:HG13	2.18	0.43
42:DM:390:ARG:O	42:DM:394:LYS:HG2	2.18	0.43
42:EC:195:LEU:HD21	42:EC:264:ARG:HE	1.83	0.43
41:ED:21:TRP:CZ3	41:ED:50:TYR:HB3	2.54	0.43
41:ED:404:ASP:HB3	41:ED:405:GLU:H	1.44	0.43
42:EE:79:ARG:HE	42:EE:79:ARG:HB2	1.49	0.43
42:EE:158:SER:O	42:EE:159:VAL:C	2.56	0.43
41:EF:24:ILE:O	41:EF:28:HIS:HD2	2.02	0.43
42:EG:170:SER:O	42:EG:204:VAL:HG12	2.18	0.43
42:EI:345:ASP:N	42:EI:345:ASP:OD1	2.51	0.43
42:EK:259:LEU:HD23	42:EK:259:LEU:HA	1.84	0.43
41:EL:95:SER:OG	41:EL:96:GLY:N	2.51	0.43
42:FC:64:ARG:NH1	42:FC:129:CYS:SG	2.92	0.43
41:FD:372:THR:HB	41:FD:426:GLN:HG3	2.01	0.43
42:FE:217:LEU:HD22	42:FE:367:ASP:HB3	2.01	0.43
41:FH:315:ALA:O	41:FH:352:ALA:N	2.49	0.43
41:FH:412:GLU:O	41:FH:415:MET:HB3	2.19	0.43
42:FI:320:ARG:N	42:FI:374:ALA:O	2.48	0.43
41:FJ:2:ARG:HD2	42:FK:96:LYS:O	2.18	0.43
41:FJ:2:ARG:HG2	42:FK:97:GLU:HG2	2.01	0.43
41:FJ:116:VAL:HG13	41:FJ:154:LYS:NZ	2.33	0.43
41:FJ:161:ASP:OD1	41:FJ:161:ASP:N	2.52	0.43
41:FJ:375:GLN:O	41:FJ:379:LYS:N	2.47	0.43
42:FK:120:ASP:O	42:FK:124:LYS:HG2	2.19	0.43
42:FM:430:LYS:O	42:FM:433:GLU:N	2.46	0.43
41:GD:257:MET:HE2	41:GD:312:THR:HB	2.00	0.43
42:GG:137:ILE:N	42:GG:167:LEU:O	2.37	0.43
41:GJ:102:ALA:HB2	41:GJ:403:MET:HE2	2.01	0.43
42:GK:100:ALA:HB3	42:GK:105:ARG:HD3	1.99	0.43
41:GL:48:ASN:O	41:GL:62:ARG:NH2	2.32	0.43
42:GM:286:LEU:HD13	42:GM:371:VAL:HG12	2.01	0.43
41:HB:86:ARG:NH2	41:IN:282:ARG:HE	2.17	0.43
42:HC:168:GLU:HG3	42:HC:201:ALA:HA	2.00	0.43
42:HC:170:SER:OG	42:HC:171:ILE:N	2.52	0.43
41:HD:70:PRO:HB3	41:HD:92:PHE:HD1	1.84	0.43
41:HD:311:LEU:HD22	41:HD:344:TRP:CZ2	2.45	0.43
42:HE:121:ARG:HH11	42:HE:121:ARG:HA	1.82	0.43
42:HE:261:PRO:HA	41:HF:394:PHE:CD1	2.53	0.43
41:HF:3:GLU:HG2	41:HF:62:ARG:HH12	1.84	0.43
41:HF:12:CYS:HB3	41:HF:138:SER:HB3	2.01	0.43
42:HG:91:GLN:H	42:HG:91:GLN:HG2	1.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:HG:107:HIS:CD2	42:HG:152:LEU:HG	2.53	0.43
41:HH:52:ASN:ND2	41:HH:123:GLU:OE2	2.52	0.43
42:HI:164:LYS:HE3	42:HI:164:LYS:HB3	1.65	0.43
42:HI:252:LEU:HA	42:HI:252:LEU:HD12	1.87	0.43
41:HJ:165:ASN:HB2	41:HJ:200:TYR:CE2	2.50	0.43
42:HM:136:LEU:HD13	42:HM:167:LEU:HG	2.01	0.43
42:IC:139:HIS:O	42:IC:170:SER:HA	2.18	0.43
42:IC:261:PRO:HD2	42:IC:265:ILE:HG23	2.01	0.43
41:ID:68:LEU:HD12	41:ID:97:ALA:HB2	2.01	0.43
41:ID:149:THR:HB	41:ID:191:GLN:HB2	2.01	0.43
41:IF:210:ILE:HG22	41:IF:215:LEU:HD23	2.00	0.43
42:II:17:GLY:HA2	42:II:20:CYS:SG	2.58	0.43
41:IL:3:GLU:HA	41:IL:49:VAL:HA	2.00	0.43
41:IL:4:ILE:HD11	41:IL:50:TYR:CZ	2.54	0.43
42:JG:185:TYR:HA	42:JG:395:PHE:HE1	1.83	0.43
42:JG:388:TRP:O	42:JG:392:ASP:N	2.43	0.43
41:JH:83:GLN:NE2	41:MH:281:TYR:OH	2.51	0.43
41:JH:163:ILE:HG23	41:JH:251:ARG:HH21	1.82	0.43
41:JJ:323:MET:HA	41:JJ:326:VAL:HG12	2.00	0.43
42:JK:60:LYS:HB2	42:MK:282:TYR:HB3	2.00	0.43
42:JK:313:MET:HG2	42:JK:346:TRP:CZ2	2.53	0.43
42:JK:344:VAL:HG11	42:JK:346:TRP:CE2	2.53	0.43
42:JK:353:VAL:HG23	41:JL:177:ASP:HA	2.00	0.43
41:JL:135:LEU:HD21	41:JL:137:HIS:HB3	2.01	0.43
42:JM:104:ALA:HB2	42:JM:413:MET:HE2	2.00	0.43
42:KE:132:LEU:HD22	42:KE:164:LYS:HD2	1.99	0.43
41:KF:272:PRO:HG3	41:KF:364:SER:HA	2.00	0.43
41:KJ:407:GLU:HA	41:KJ:410:GLU:HB2	2.01	0.43
42:KK:147:SER:HB2	42:KK:190:THR:HB	1.99	0.43
42:KK:435:VAL:HA	41:KL:391:ARG:HH22	1.83	0.43
41:KN:215:LEU:HD11	41:KN:273:LEU:HG	2.01	0.43
41:KN:282:ARG:HH21	41:KN:284:LEU:HD11	1.82	0.43
41:LD:318:ARG:HE	41:LD:318:ARG:HB3	1.44	0.43
41:MD:206:ALA:O	41:MD:210:ILE:HG12	2.19	0.43
41:MF:325:GLU:O	41:MF:326:VAL:C	2.56	0.43
42:MG:70:LEU:HG	42:MG:110:ILE:HG23	2.00	0.43
42:MI:151:SER:HA	42:MI:193:THR:HG21	2.00	0.43
42:MK:1:MET:HB3	42:MK:1:MET:HE3	1.81	0.43
42:MK:319:TYR:HD1	42:MK:375:VAL:HG22	1.83	0.43
41:ML:114:ASP:OD1	41:ML:115:SER:N	2.51	0.43
41:MN:313:VAL:HA	41:MN:369:GLY:HA2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:NA:273:ALA:HB3	42:NA:274:PRO:HD3	2.01	0.43
42:NC:72:PRO:HB2	42:NC:73:THR:H	1.64	0.43
42:NE:60:LYS:HD2	42:OE:282:TYR:CE2	2.54	0.43
42:NE:253:THR:HG23	41:NF:98:GLY:HA2	2.01	0.43
42:NG:269:LEU:HD22	42:NG:303:VAL:HG11	2.00	0.43
41:NH:138:SER:OG	41:NH:139:LEU:N	2.51	0.43
41:NH:331:LEU:HD21	42:NI:176:GLN:HG3	2.00	0.43
42:NI:7:VAL:HB	42:NI:137:ILE:HG23	2.00	0.43
41:NJ:8:GLN:O	41:NJ:66:VAL:N	2.42	0.43
41:NJ:327:ASP:HB3	42:NK:177:VAL:HG12	2.01	0.43
42:NK:372:GLN:H	42:NK:372:GLN:HG2	1.66	0.43
41:OB:44:LEU:HA	41:OB:47:ILE:HG23	2.00	0.43
41:OD:165:ASN:HB3	41:OD:198:GLU:OE1	2.17	0.43
42:OE:428:LEU:HD11	42:OE:432:TYR:CZ	2.54	0.43
41:OH:21:TRP:CZ3	41:OH:61:PRO:HB3	2.54	0.43
41:OH:73:MET:O	41:OH:74:ASP:C	2.57	0.43
41:OH:151:LEU:HD12	41:OH:151:LEU:HA	1.75	0.43
42:OI:110:ILE:HA	42:OI:113:GLU:OE1	2.17	0.43
41:OJ:61:PRO:HG3	41:OJ:84:ILE:HG23	2.00	0.43
41:OJ:112:LEU:O	41:OJ:113:VAL:C	2.57	0.43
42:PA:286:LEU:O	42:PA:373:ARG:NH1	2.51	0.43
42:PA:383:ALA:O	42:PA:386:GLU:HB3	2.19	0.43
41:PB:207:LEU:HD13	41:PB:207:LEU:HA	1.65	0.43
42:PC:5:ILE:HG22	42:PC:6:SER:N	2.31	0.43
42:PC:71:GLU:N	42:PC:97:GLU:O	2.52	0.43
41:PD:311:LEU:HD21	41:PD:344:TRP:CH2	2.54	0.43
42:PE:11:GLN:HA	42:PE:74:VAL:HG21	2.01	0.43
41:PF:287:PRO:O	41:PF:291:GLN:HG2	2.18	0.43
41:PF:381:ILE:H	41:PF:381:ILE:HG12	1.38	0.43
42:PG:60:LYS:O	42:PG:62:VAL:N	2.52	0.43
42:PG:119:LEU:HG	42:PG:153:LEU:HD12	2.00	0.43
42:PG:184:PRO:O	42:PG:185:TYR:C	2.56	0.43
42:PG:416:GLY:C	42:PG:418:PHE:N	2.71	0.43
41:PH:117:LEU:HD21	41:PH:154:LYS:HB3	2.00	0.43
41:PH:144:GLY:O	41:PH:146:GLY:N	2.52	0.43
41:PH:207:LEU:HD12	41:PH:207:LEU:HA	1.78	0.43
41:PH:322:SER:O	41:PH:325:GLU:HG2	2.19	0.43
42:PI:196:GLU:HB2	42:PI:197:HIS:H	1.64	0.43
42:PI:247:ALA:O	42:PI:248:LEU:C	2.55	0.43
41:PJ:251:ARG:O	41:PJ:254:ALA:N	2.37	0.43
41:PL:32:PRO:HD3	41:PL:81:PHE:CZ	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:PL:326:VAL:O	41:PL:327:ASP:C	2.55	0.43
41:QB:7:LEU:HB3	41:QB:135:LEU:HB3	2.00	0.43
41:QD:48:ASN:O	41:QD:62:ARG:NH2	2.51	0.43
41:QD:116:VAL:HA	41:QD:119:VAL:HG12	2.01	0.43
41:QD:246:LEU:O	41:QD:353:VAL:N	2.43	0.43
41:QF:262:ARG:NE	41:QF:421:GLU:OE2	2.52	0.43
41:QF:344:TRP:HB3	42:QG:402:ARG:HH11	1.84	0.43
41:QH:144:GLY:O	41:QH:145:SER:C	2.56	0.43
42:QI:244:PHE:HB2	42:QI:356:ASN:HD21	1.83	0.43
41:QJ:15:GLN:H	41:QJ:15:GLN:HG3	1.54	0.43
41:QJ:236:VAL:HG23	41:QJ:368:ILE:HD12	1.99	0.43
42:QK:114:LEU:O	42:QK:115:ILE:C	2.57	0.43
41:RB:117:LEU:HA	41:RB:120:VAL:HG22	2.00	0.43
41:RB:152:ILE:HA	41:RB:152:ILE:HD12	1.73	0.43
41:RB:178:THR:HG22	41:RB:180:VAL:H	1.83	0.43
42:RC:135:PHE:HE2	42:RC:161:TYR:CG	2.36	0.43
42:RC:317:LEU:HD12	42:RC:319:TYR:HE1	1.82	0.43
41:RD:311:LEU:HA	41:RD:342:VAL:HG11	2.00	0.43
42:RI:260:VAL:HG12	42:RI:380:ASN:HD22	1.83	0.43
41:RJ:154:LYS:HE3	41:RJ:154:LYS:HB2	1.67	0.43
41:RJ:250:LEU:HD13	41:RJ:250:LEU:HA	1.73	0.43
41:RJ:310:TYR:O	41:RJ:311:LEU:C	2.57	0.43
42:RK:277:SER:O	42:RK:281:ALA:N	2.45	0.43
41:RL:200:TYR:CE1	41:RL:266:PHE:HB2	2.54	0.43
42:SC:31:GLN:NE2	42:SC:36:MET:O	2.51	0.43
42:SC:132:LEU:HB3	42:SC:164:LYS:NZ	2.34	0.43
42:SE:55:GLU:HG2	42:SE:61:HIS:CD2	2.53	0.43
42:SE:407:TRP:O	42:SE:410:GLY:N	2.51	0.43
41:SF:7:LEU:HB3	41:SF:135:LEU:HD13	2.00	0.43
41:SF:97:ALA:HA	41:SF:103:LYS:HE2	2.01	0.43
41:SF:102:ALA:O	41:SF:103:LYS:C	2.55	0.43
42:SG:52:PHE:CZ	42:SG:239:THR:HG21	2.54	0.43
42:SG:95:GLY:HA3	42:SG:114:LEU:HD21	2.00	0.43
42:SG:142:GLY:H	42:SG:147:SER:HB3	1.84	0.43
42:SI:343:PHE:HE1	42:SI:351:PHE:HE2	1.67	0.43
41:SJ:245:GLN:HB3	42:SK:224:TYR:CD2	2.53	0.43
42:SK:60:LYS:HE3	42:TK:284:GLU:H	1.84	0.43
42:SK:91:GLN:NE2	42:SK:121:ARG:HH21	2.16	0.43
41:SL:103:LYS:O	41:SL:107:THR:N	2.52	0.43
42:SM:191:THR:OG1	42:SM:425:MET:SD	2.60	0.43
42:TI:319:TYR:CD2	42:TI:323:VAL:HG21	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:TJ:296:ALA:HB2	41:TJ:305:PRO:HD2	2.00	0.43
41:TL:136:THR:HA	41:TL:167:PHE:O	2.18	0.43
42:TM:105:ARG:HA	42:TM:109:THR:HB	2.01	0.43
42:UC:188:ILE:HG12	42:UC:421:ALA:HB1	2.00	0.43
41:UH:322:SER:O	41:UH:325:GLU:HG2	2.18	0.43
42:UK:213:CYS:HA	42:UK:217:LEU:HB2	1.99	0.43
41:UL:173:PRO:HA	41:UL:380:ARG:CZ	2.48	0.43
41:UL:287:PRO:HA	41:UL:329:GLN:HE22	1.84	0.43
42:UM:328:VAL:O	42:UM:332:ILE:HG12	2.18	0.43
41:VF:7:LEU:H	41:VF:7:LEU:HG	1.41	0.43
41:VH:296:ALA:HA	41:VH:305:PRO:HD2	2.01	0.43
41:VJ:255:VAL:HG11	42:VK:100:ALA:O	2.18	0.43
41:VL:301:ALA:O	41:VL:303:CYS:N	2.46	0.43
42:WC:208:ALA:O	42:WC:212:ILE:HG12	2.19	0.43
41:WF:2:ARG:HE	41:WF:2:ARG:HB2	1.59	0.43
41:WH:156:ARG:HA	41:WH:156:ARG:HD2	1.75	0.43
42:WK:432:TYR:HA	42:WK:435:VAL:HG22	2.01	0.43
42:WM:301:GLN:NE2	42:WM:312:TYR:OH	2.51	0.43
42:WM:345:ASP:OD2	42:WM:346:TRP:N	2.51	0.43
41:WN:148:GLY:O	41:WN:152:ILE:HG12	2.17	0.43
41:WN:226:ASN:OD1	43:WN:501:GDP:N1	2.52	0.43
41:WN:236:VAL:HG13	41:WN:237:THR:HG23	2.01	0.43
2:1D:167:ASP:OD2	41:HD:338:SER:N	2.51	0.43
8:1X:116:PRO:HG3	42:AC:263:PRO:HD2	1.99	0.43
8:1Y:97:LYS:HD2	41:AF:392:LYS:NZ	2.33	0.43
19:3K:154:LEU:HD13	19:3K:176:ILE:HD13	2.01	0.43
19:3L:472:VAL:HG21	19:3L:498:VAL:HG12	1.99	0.43
20:3O:482:SER:HA	20:3O:485:SER:HB3	2.01	0.43
22:4A:57:THR:HG22	41:BJ:41:ASP:OD2	2.19	0.43
22:4A:106:ASN:ND2	42:BK:279:GLU:OE1	2.52	0.43
25:4J:342:LEU:HD23	25:4J:355:VAL:HG11	2.00	0.43
26:4K:266:HIS:HD2	26:4K:270:GLN:HE22	1.67	0.43
26:4M:112:LEU:O	26:4M:116:LEU:N	2.40	0.43
32:5O:119:ARG:HA	32:5O:385:ILE:HG21	2.01	0.43
32:5O:399:PRO:HD3	34:6D:369:LEU:HB3	2.01	0.43
33:5R:230:GLU:HA	33:5R:233:MET:HB2	1.99	0.43
33:5S:202:LYS:H	33:5T:315:HIS:HB3	1.84	0.43
33:5V:285:ASN:HB3	33:5W:32:ARG:CZ	2.48	0.43
33:5X:345:LEU:O	33:5X:349:ILE:HG12	2.18	0.43
34:6A:119:ARG:O	34:6A:120:LEU:C	2.57	0.43
34:6A:185:LEU:HG	34:6A:234:LYS:HZ2	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:6B:263:SER:O	34:6B:267:ILE:HG12	2.18	0.43
34:6C:142:SER:OG	34:6D:399:ARG:NH1	2.51	0.43
34:6C:217:LYS:HB3	34:6C:217:LYS:HE3	1.79	0.43
34:6H:191:PRO:HG3	34:6H:481:PRO:HG2	2.01	0.43
34:6H:280:GLY:HA3	35:6W:41:LEU:HB2	2.00	0.43
34:6J:114:ARG:HD3	34:6K:371:GLU:HG3	1.99	0.43
34:6L:303:PHE:O	34:6L:307:ASN:ND2	2.38	0.43
35:6P:52:LEU:HD22	35:6Q:169:ARG:NH2	2.33	0.43
35:6U:243:HIS:O	35:6U:245:ALA:N	2.52	0.43
35:6V:150:SER:O	35:6V:153:THR:HB	2.19	0.43
35:6W:276:VAL:O	35:6W:279:ARG:HG2	2.18	0.43
36:6Y:12:THR:OG1	36:6Y:13:PHE:N	2.52	0.43
37:7E:193:THR:OG1	37:7E:194:LYS:NZ	2.46	0.43
38:7H:47:TYR:OH	42:HK:119:LEU:HG	2.19	0.43
41:AH:424:GLN:O	41:AH:428:ALA:HB2	2.18	0.43
42:AK:103:TYR:CE1	42:AK:186:ASN:HA	2.54	0.43
41:BD:164:MET:HE2	41:BD:164:MET:HB2	1.55	0.43
41:BD:379:LYS:HE2	41:BD:379:LYS:HB2	1.46	0.43
41:BF:28:HIS:HA	41:BF:43:GLN:HB2	1.99	0.43
41:BF:207:LEU:HG	41:BF:228:LEU:HD23	2.01	0.43
42:BG:119:LEU:HA	42:BG:122:ILE:HG22	2.01	0.43
42:BI:288:VAL:HG22	42:BI:323:VAL:HG12	2.00	0.43
41:BJ:65:LEU:HD11	41:BJ:76:VAL:HG11	2.00	0.43
41:BJ:248:ALA:HB3	41:BJ:352:ALA:HB2	2.00	0.43
42:BK:251:ASP:H	42:BK:254:GLU:HG3	1.83	0.43
42:CC:121:ARG:HD2	42:CC:121:ARG:HA	1.37	0.43
42:CC:155:GLU:O	42:CC:156:ARG:C	2.57	0.43
42:CC:255:PHE:HZ	42:CC:318:LEU:HG	1.84	0.43
41:CD:6:HIS:CE1	41:CD:8:GLN:HG2	2.54	0.43
41:CF:203:ASP:HB2	41:CF:301:ALA:HA	2.01	0.43
42:CG:139:HIS:CB	42:CG:150:THR:HG21	2.48	0.43
42:CG:288:VAL:CA	42:CG:291:ILE:HG12	2.42	0.43
41:DD:260:PHE:HE1	42:DE:403:ALA:HA	1.83	0.43
42:DE:177:VAL:HB	42:DE:207:GLU:HG3	2.00	0.43
42:DE:188:ILE:HG21	42:DE:395:PHE:CE1	2.53	0.43
42:DG:195:LEU:HD21	42:DG:428:LEU:HD22	2.00	0.43
41:DJ:371:SER:C	41:DJ:373:ALA:N	2.71	0.43
41:DJ:421:GLU:O	41:DJ:422:TYR:C	2.56	0.43
42:DK:66:VAL:HG22	42:DK:68:VAL:HG12	2.01	0.43
41:DL:173:PRO:HB3	41:DL:380:ARG:HD2	2.01	0.43
42:DM:319:TYR:HB2	42:DM:355:ILE:HD13	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:ED:88:ASP:C	41:ED:90:PHE:H	2.21	0.43
41:ED:314:ALA:O	41:ED:367:PHE:HA	2.19	0.43
42:EE:39:ASP:O	42:EE:40:LYS:C	2.57	0.43
42:EE:111:GLY:O	42:EE:113:GLU:N	2.52	0.43
42:EE:112:LYS:HB2	42:EE:112:LYS:HE2	1.61	0.43
41:EF:152:ILE:HD13	41:EF:152:ILE:HA	1.86	0.43
41:EH:105:HIS:CD2	41:EH:150:LEU:HD13	2.54	0.43
42:EI:273:ALA:HB1	42:EI:294:ALA:HB3	2.01	0.43
42:EK:308:ARG:HE	42:EK:308:ARG:HB2	1.76	0.43
42:EK:434:GLU:O	42:EK:436:GLY:N	2.51	0.43
42:EM:152:LEU:HD23	42:EM:152:LEU:HA	1.80	0.43
42:EM:278:ALA:O	42:EM:279:GLU:C	2.57	0.43
41:FD:252:LYS:HB2	41:FD:252:LYS:HE2	1.70	0.43
42:FG:71:GLU:HG2	42:FG:73:THR:HG22	1.99	0.43
42:FG:392:ASP:OD1	42:FG:422:ARG:NE	2.52	0.43
41:FH:189:VAL:HG13	41:FH:265:PHE:CZ	2.53	0.43
41:FH:213:ARG:HG2	41:FH:297:LYS:HG2	2.01	0.43
42:FI:3:GLU:HG3	42:FI:129:CYS:SG	2.58	0.43
42:FK:16:ILE:HG12	42:FK:228:ASN:HB3	2.01	0.43
42:FK:104:ALA:HB1	42:FK:411:GLU:HB2	1.99	0.43
42:FK:139:HIS:NE2	42:FK:190:THR:HG21	2.34	0.43
42:FK:172:TYR:HD1	42:FK:172:TYR:HA	1.65	0.43
41:FL:192:LEU:HD12	41:FL:196:THR:HG21	1.99	0.43
42:FM:93:ILE:HD11	42:FM:121:ARG:HG2	1.99	0.43
42:GE:156:ARG:HA	42:GE:156:ARG:HD2	1.76	0.43
42:GI:258:ASN:ND2	42:GI:352:LYS:HD3	2.33	0.43
42:GK:107:HIS:HA	42:GK:152:LEU:HD23	2.00	0.43
42:HC:10:GLY:O	42:HC:14:VAL:HG12	2.19	0.43
41:HD:130:LEU:HB3	41:HD:162:ARG:HD3	2.00	0.43
41:HH:204:ASN:HA	41:HH:207:LEU:HB2	1.99	0.43
42:HI:139:HIS:HE2	42:HI:141:PHE:HE1	1.67	0.43
42:HI:156:ARG:H	42:HI:156:ARG:HG2	1.68	0.43
42:HI:203:MET:HE2	42:HI:203:MET:HB2	1.85	0.43
42:HI:224:TYR:HD1	42:HI:224:TYR:HA	1.77	0.43
41:HJ:98:GLY:O	41:HJ:99:ASN:C	2.57	0.43
41:HJ:313:VAL:HG22	41:HJ:367:PHE:CE2	2.42	0.43
42:HK:250:VAL:HG23	42:HK:254:GLU:HG3	2.00	0.43
41:HL:311:LEU:HD22	41:HL:344:TRP:HZ2	1.84	0.43
42:HM:384:ILE:HD12	42:HM:384:ILE:HA	1.86	0.43
41:ID:344:TRP:HZ2	42:IE:401:LYS:HB2	1.81	0.43
42:IE:255:PHE:HZ	42:IE:318:LEU:HD21	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:IE:255:PHE:CZ	42:IE:318:LEU:HD21	2.54	0.43
42:JC:175:PRO:HB3	42:JC:390:ARG:CZ	2.47	0.43
42:JC:206:ASN:HA	42:JC:227:LEU:HD11	2.01	0.43
41:JD:27:GLU:O	41:JD:43:GLN:NE2	2.52	0.43
41:JD:253:LEU:HA	41:JD:253:LEU:HD12	1.77	0.43
41:JD:314:ALA:HB1	41:JD:350:LYS:CE	2.40	0.43
42:JE:60:LYS:HD2	42:JE:60:LYS:HA	1.67	0.43
41:JH:364:SER:OG	41:JH:365:ALA:N	2.52	0.43
41:JJ:215:LEU:HD11	41:JJ:228:LEU:HD21	2.01	0.43
41:JJ:346:PRO:HG3	42:JK:397:LEU:HD23	2.00	0.43
41:JL:44:LEU:HD12	41:JL:44:LEU:HA	1.87	0.43
42:JM:279:GLU:H	42:JM:279:GLU:HG3	1.59	0.43
41:KD:209:ASP:O	41:KD:213:ARG:HG2	2.18	0.43
42:KE:326:LYS:HE2	41:KF:220:PRO:HD2	2.01	0.43
41:KF:186:THR:HG21	41:KF:385:PHE:CE2	2.54	0.43
41:KJ:122:LYS:HE2	41:KJ:122:LYS:HB2	1.82	0.43
41:KL:291:GLN:O	41:KL:295:ASP:N	2.51	0.43
41:KL:313:VAL:HB	41:KL:349:VAL:HG22	2.01	0.43
41:LD:163:ILE:HG13	41:LD:197:ASP:HB2	2.00	0.43
41:LH:331:LEU:HD11	42:LI:176:GLN:HG2	2.00	0.43
41:LJ:257:MET:O	41:LJ:312:THR:OG1	2.29	0.43
42:LK:269:LEU:HD21	42:LK:384:ILE:HD13	1.99	0.43
41:LL:19:LYS:HE3	41:LL:223:GLY:O	2.17	0.43
42:LM:295:CYS:HB3	42:LM:377:MET:SD	2.59	0.43
41:LN:19:LYS:HB2	41:LN:19:LYS:HE2	1.74	0.43
42:MC:51:THR:HG21	42:MC:243:ARG:HB3	2.01	0.43
41:MD:117:LEU:HA	41:MD:120:VAL:HG22	2.00	0.43
41:MD:165:ASN:HD21	41:MD:200:TYR:HE2	1.65	0.43
41:MD:181:GLU:HG2	41:MD:182:PRO:HD3	1.99	0.43
42:MG:174:ALA:HB3	42:MG:177:VAL:O	2.19	0.43
41:MH:180:VAL:HG22	41:MH:183:TYR:HB2	2.01	0.43
42:MK:53:PHE:HB3	42:MK:61:HIS:HB3	2.01	0.43
42:MK:180:ALA:HB3	42:MK:183:GLU:HB3	1.99	0.43
42:MM:312:TYR:CD2	42:MM:341:ILE:HG23	2.54	0.43
41:MN:324:LYS:HB3	41:MN:324:LYS:HE3	1.76	0.43
41:NB:379:LYS:HB2	41:NB:379:LYS:HE3	1.67	0.43
41:NB:392:LYS:HA	41:NB:392:LYS:HD3	1.63	0.43
42:NC:79:ARG:HG3	42:NC:92:LEU:HD23	2.00	0.43
42:NG:402:ARG:HE	42:NG:402:ARG:HB3	1.42	0.43
42:NI:89:PRO:HG2	42:OI:279:GLU:O	2.19	0.43
42:NI:121:ARG:HD2	42:NI:121:ARG:HA	1.78	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:NI:123:ARG:HA	42:NI:161:TYR:OH	2.17	0.43
42:NI:234:ILE:O	42:NI:238:ILE:HG23	2.19	0.43
41:NJ:28:HIS:HB2	41:NJ:43:GLN:HB2	1.99	0.43
42:NK:199:ASP:HB3	42:NK:256:GLN:NE2	2.30	0.43
41:OB:104:GLY:CA	41:OB:109:GLY:HA3	2.40	0.43
41:OB:121:ARG:C	41:OB:123:GLU:N	2.72	0.43
41:OB:235:GLY:O	41:OB:238:THR:HG22	2.19	0.43
41:OB:379:LYS:HB3	41:OB:379:LYS:HE2	1.32	0.43
41:OD:178:THR:HB	41:OD:181:GLU:HG3	1.99	0.43
42:OG:397:LEU:HD12	42:OG:397:LEU:HA	1.89	0.43
41:OH:385:PHE:CD1	41:OH:412:GLU:HG3	2.54	0.43
42:OK:195:LEU:O	42:OK:266:HIS:NE2	2.52	0.43
42:OK:228:ASN:HA	42:OK:231:ILE:HG12	2.00	0.43
41:PB:90:PHE:HB3	41:PB:92:PHE:CE2	2.53	0.43
41:PB:194:GLU:H	41:PB:194:GLU:HG3	1.62	0.43
42:PE:212:ILE:HA	42:PE:212:ILE:HD12	1.68	0.43
42:PE:240:ALA:O	42:PE:242:LEU:N	2.52	0.43
41:PF:318:ARG:HD3	41:PF:364:SER:HB2	2.00	0.43
42:PG:280:LYS:H	42:PG:280:LYS:HG2	1.55	0.43
42:PG:396:ASP:C	42:PG:398:MET:H	2.22	0.43
41:PH:63:ALA:O	41:PH:89:ASN:ND2	2.51	0.43
42:PI:102:ASN:HB3	42:PI:105:ARG:HG3	2.01	0.43
42:PI:360:PRO:HG3	42:PI:374:ALA:HB2	2.01	0.43
41:PJ:69:GLU:C	41:PJ:71:GLY:H	2.22	0.43
41:PJ:238:THR:O	41:PJ:239:CYS:C	2.57	0.43
42:PK:171:ILE:HA	42:PK:204:VAL:O	2.18	0.43
42:PK:349:THR:OG1	41:PL:179:VAL:HA	2.18	0.43
42:PK:422:ARG:HD2	42:PK:425:MET:HG3	2.00	0.43
41:QB:318:ARG:NH1	41:QB:364:SER:OG	2.52	0.43
42:QC:229:ARG:HH11	42:QC:363:VAL:HG21	1.84	0.43
41:QD:42:LEU:HD13	41:QD:356:ILE:HG13	2.00	0.43
41:QD:314:ALA:HA	41:QD:350:LYS:HB3	2.00	0.43
42:QE:158:SER:HB2	42:QE:166:LYS:HE3	2.01	0.43
41:QF:312:THR:HG22	42:QG:181:VAL:HG21	1.99	0.43
41:QF:313:VAL:HG12	41:QF:349:VAL:HG23	1.99	0.43
42:QI:413:MET:O	42:QI:414:GLU:C	2.57	0.43
41:QJ:324:LYS:HB3	41:QJ:324:LYS:HE2	1.64	0.43
42:QK:15:GLN:HE22	42:QK:74:VAL:HB	1.82	0.43
41:QL:2:ARG:HD2	41:QL:240:LEU:HD22	1.99	0.43
41:QL:222:TYR:HA	41:QL:225:LEU:HB2	2.00	0.43
41:RB:204:ASN:HD22	43:RB:501:GDP:HO2'	1.64	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:RB:319:GLY:N	41:RB:354:CYS:O	2.49	0.43
42:RC:322:ASP:OD2	42:RC:373:ARG:NH2	2.52	0.43
41:RD:3:GLU:C	41:RD:4:ILE:HG12	2.39	0.43
41:RD:150:LEU:HD23	41:RD:150:LEU:HA	1.74	0.43
41:RD:257:MET:SD	41:RD:312:THR:HB	2.59	0.43
42:RE:238:ILE:HD12	42:RE:378:LEU:HD11	2.01	0.43
42:RE:336:LYS:O	42:RE:339:ARG:NH2	2.51	0.43
42:RG:109:THR:HB	42:RG:112:LYS:HZ2	1.82	0.43
42:RI:279:GLU:O	42:RI:283:HIS:HD2	2.01	0.43
41:RJ:395:LEU:HD13	41:RJ:395:LEU:HA	1.87	0.43
42:RK:66:VAL:HG13	42:RK:121:ARG:NH2	2.34	0.43
42:RK:103:TYR:HD1	42:RK:147:SER:HB3	1.83	0.43
42:RK:210:TYR:CD2	42:RK:227:LEU:HD21	2.54	0.43
42:RK:371:VAL:HG22	42:RK:373:ARG:H	1.84	0.43
41:RL:161:ASP:OD1	41:RL:162:ARG:HD2	2.18	0.43
42:SC:388:TRP:O	42:SC:392:ASP:N	2.46	0.43
42:SC:408:TYR:HB3	42:SC:413:MET:CE	2.49	0.43
42:SE:224:TYR:HD1	42:SE:224:TYR:HA	1.43	0.43
41:SF:58:LYS:HB2	41:SF:58:LYS:HE2	1.38	0.43
41:SF:313:VAL:HG11	41:SF:341:PHE:HE1	1.84	0.43
42:SG:51:THR:HG23	42:SG:52:PHE:CD2	2.53	0.43
42:SG:261:PRO:HG2	42:SG:313:MET:SD	2.58	0.43
42:SI:239:THR:O	42:SI:242:LEU:HG	2.19	0.43
42:SI:359:PRO:HA	42:SI:360:PRO:HD2	1.91	0.43
41:SJ:318:ARG:NH2	41:SJ:356:ILE:O	2.42	0.43
42:SK:270:ALA:O	42:SK:302:MET:HB2	2.18	0.43
41:SL:48:ASN:O	41:SL:49:VAL:C	2.57	0.43
42:TC:115:ILE:HD12	42:TC:156:ARG:NH1	2.33	0.43
41:TF:73:MET:HE2	41:TF:92:PHE:HB3	2.01	0.43
42:TG:90:GLU:HB2	42:TG:121:ARG:CZ	2.49	0.43
42:TG:221:ARG:HE	42:TG:221:ARG:HB3	1.69	0.43
42:TG:326:LYS:HE2	42:TG:327:ASP:OD2	2.18	0.43
41:TJ:257:MET:HA	41:TJ:312:THR:HG21	2.01	0.43
41:TL:194:GLU:OE2	41:TL:414:ASN:ND2	2.33	0.43
42:UC:188:ILE:HD11	42:UC:422:ARG:HA	2.00	0.43
41:UD:206:ALA:HA	41:UD:209:ASP:HB3	2.01	0.43
41:UD:206:ALA:O	41:UD:210:ILE:HG13	2.19	0.43
41:UD:261:PRO:HD3	42:UE:406:HIS:CD2	2.53	0.43
41:UF:263:LEU:HD13	41:UF:422:TYR:CZ	2.53	0.43
42:UG:50:ASN:O	42:UG:51:THR:C	2.56	0.43
41:UH:10:GLY:HA2	41:UH:143:THR:OG1	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:UL:341:PHE:HD1	41:UL:348:ASN:HD22	1.65	0.43
42:VC:260:VAL:HG12	42:VC:266:HIS:HA	2.00	0.43
41:VF:12:CYS:SG	41:VF:138:SER:HB3	2.58	0.43
41:VF:141:GLY:O	41:VF:145:SER:OG	2.30	0.43
41:VF:314:ALA:HB2	41:VF:350:LYS:HB3	2.01	0.43
42:VG:109:THR:O	42:VG:111:GLY:N	2.52	0.43
42:VI:246:GLY:O	42:VI:249:ASN:ND2	2.51	0.43
42:VK:375:VAL:HG12	42:VK:376:CYS:H	1.84	0.43
42:VM:320:ARG:HG2	42:VM:374:ALA:HB3	2.01	0.43
42:WG:70:LEU:HD23	42:WG:114:LEU:HD12	2.01	0.43
42:WG:223:THR:HG22	42:WG:224:TYR:N	2.33	0.43
41:WH:172:SER:HB2	41:WH:205:GLU:HG2	1.99	0.43
42:WI:21:TRP:CZ2	42:WI:65:ALA:HB2	2.53	0.43
14:2X:84:ASN:HA	42:OE:370:LYS:NZ	2.34	0.43
22:3Y:28:ARG:HD2	42:CE:221:ARG:HH12	1.83	0.43
22:4A:106:ASN:HA	42:BK:219:ILE:HG22	2.01	0.43
25:4I:48:LYS:HB3	25:4I:48:LYS:HE3	1.62	0.43
25:4I:122:LYS:O	25:4I:162:GLU:N	2.46	0.43
25:4J:279:ARG:HG3	25:4J:304:TYR:CZ	2.54	0.43
26:4K:176:LYS:HB2	26:4K:176:LYS:HE2	1.84	0.43
26:4K:226:ILE:HA	26:4K:229:VAL:HG12	2.01	0.43
27:4R:115:GLY:C	27:4R:117:CYS:H	2.21	0.43
27:4R:195:PRO:HD3	27:4R:247:MET:HE2	2.00	0.43
32:5M:81:LEU:HD12	32:5M:171:LEU:HD23	2.01	0.43
33:5Q:11:ARG:HD2	33:5R:128:VAL:HG12	2.01	0.43
33:5S:345:LEU:HA	33:5S:345:LEU:HD23	1.83	0.43
33:5V:234:LYS:HE3	33:5V:234:LYS:HB3	1.81	0.43
33:5X:197:PRO:HG3	34:6L:143:THR:HG21	2.00	0.43
34:6B:229:CYS:HB3	34:6B:332:THR:HG23	2.01	0.43
34:6B:238:ASP:HA	34:6B:241:ILE:HG22	2.00	0.43
34:6B:371:GLU:O	34:6B:372:ILE:C	2.57	0.43
34:6E:400:LEU:HD22	34:6E:420:LEU:HB2	2.00	0.43
34:6E:406:ARG:HB2	34:6E:411:LEU:HD13	2.01	0.43
34:6H:463:ALA:O	34:6H:464:ASN:C	2.57	0.43
34:6M:436:GLN:NE2	34:6M:440:ASP:OD2	2.52	0.43
35:6Q:441:LEU:HD23	35:6Q:441:LEU:HA	1.89	0.43
35:6R:78:ARG:HH12	35:6S:331:ASP:HB2	1.84	0.43
35:6T:326:LEU:HD23	35:6T:329:ILE:HD12	2.01	0.43
35:6T:366:VAL:HG11	35:6U:260:PHE:CE2	2.53	0.43
37:7E:187:GLN:HE22	42:OI:215:ARG:HH12	1.67	0.43
37:7E:198:PRO:HB2	37:7E:200:TYR:CE2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:AE:195:LEU:HD11	42:AE:428:LEU:HD11	2.01	0.43
42:AG:5:ILE:HG22	42:AG:64:ARG:HB3	2.00	0.43
42:AG:135:PHE:HB2	42:AG:166:LYS:HG2	2.00	0.43
41:AH:103:LYS:HA	41:AH:107:THR:OG1	2.19	0.43
41:AH:318:ARG:HA	41:AH:354:CYS:O	2.19	0.43
42:AI:113:GLU:H	42:AI:113:GLU:HG2	1.52	0.43
42:AI:183:GLU:HB3	42:AI:184:PRO:HD3	2.01	0.43
41:AJ:62:ARG:HG3	41:AJ:123:GLU:OE2	2.19	0.43
41:AJ:113:VAL:HG21	41:AJ:150:LEU:HD22	2.00	0.43
42:AK:287:SER:O	42:AK:291:ILE:HG23	2.19	0.43
41:AL:293:MET:HE2	41:AL:367:PHE:HB2	2.00	0.43
42:BC:186:ASN:OD1	42:BC:408:TYR:OH	2.37	0.43
42:BE:129:CYS:SG	42:BE:132:LEU:HB2	2.58	0.43
42:BG:319:TYR:N	42:BG:354:GLY:O	2.43	0.43
42:BG:332:ILE:HG21	41:BH:175:VAL:HG13	1.99	0.43
42:BK:7:VAL:HG13	42:BK:137:ILE:HG23	1.99	0.43
41:CB:237:THR:HG22	41:CB:250:LEU:HD21	2.01	0.43
42:CC:424:ASP:HB3	42:CC:425:MET:HE1	2.01	0.43
42:CE:248:LEU:HD11	41:CF:222:TYR:HE1	1.83	0.43
41:CF:255:VAL:HG12	42:CG:407:TRP:CE3	2.53	0.43
41:CH:192:LEU:O	41:CH:196:THR:OG1	2.24	0.43
42:CI:76:ASP:HA	42:CI:79:ARG:HD2	2.01	0.43
42:CI:257:THR:HG21	41:CJ:99:ASN:HB2	2.01	0.43
41:CJ:64:VAL:HA	41:CJ:89:ASN:ND2	2.34	0.43
42:CM:49:PHE:HE2	42:CM:55:GLU:HB2	1.84	0.43
42:CM:251:ASP:OD1	42:CM:252:LEU:N	2.52	0.43
41:DD:64:VAL:O	41:DD:66:VAL:HG13	2.19	0.43
41:DD:165:ASN:ND2	41:DD:198:GLU:HB3	2.34	0.43
41:DH:244:GLY:HA2	41:DH:355:ASP:HB2	2.00	0.43
41:DH:258:VAL:HG11	42:DI:407:TRP:HZ2	1.84	0.43
42:DI:16:ILE:HD11	42:DI:231:ILE:HG21	2.01	0.43
42:DI:244:PHE:HB2	42:DI:356:ASN:HD21	1.84	0.43
41:DJ:47:ILE:HG12	41:DJ:51:TYR:HB2	2.00	0.43
41:DJ:208:TYR:O	41:DJ:211:CYS:N	2.52	0.43
41:DJ:222:TYR:HA	41:DJ:225:LEU:HD12	2.00	0.43
42:DK:187:SER:HB3	42:DK:391:LEU:HD11	2.01	0.43
42:DK:216:ASN:O	42:DK:218:ASP:N	2.52	0.43
42:DK:415:GLU:O	42:DK:416:GLY:C	2.57	0.43
42:DM:141:PHE:HA	42:DM:147:SER:HB2	2.00	0.43
41:ED:418:LEU:HD13	41:ED:418:LEU:HA	1.77	0.43
42:EE:168:GLU:O	42:EE:201:ALA:HA	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:EE:348:PRO:HD2	41:EF:388:MET:HE1	1.99	0.43
42:EE:359:PRO:O	42:EE:360:PRO:C	2.57	0.43
42:EG:326:LYS:HE3	42:EG:326:LYS:HB3	1.62	0.43
42:EG:389:ALA:C	42:EG:391:LEU:H	2.22	0.43
41:EH:139:LEU:HA	41:EH:145:SER:HB3	2.00	0.43
42:EI:155:GLU:OE2	42:EI:197:HIS:NE2	2.52	0.43
42:EI:272:TYR:HD2	42:EI:275:VAL:HB	1.84	0.43
42:EI:405:VAL:HG22	42:EI:409:VAL:HG23	2.01	0.43
42:EK:269:LEU:HB3	42:EK:303:VAL:HG21	2.01	0.43
41:EL:391:ARG:O	41:EL:393:ALA:N	2.51	0.43
42:EM:421:ALA:HB3	42:EM:422:ARG:HH12	1.83	0.43
42:FC:205:ASP:O	42:FC:206:ASN:C	2.56	0.43
41:FD:332:ASN:O	41:FD:336:LYS:HB2	2.18	0.43
41:FF:121:ARG:O	41:FF:125:GLU:HG2	2.18	0.43
41:FF:337:ASN:HB3	41:FF:340:TYR:HD2	1.84	0.43
41:FH:148:GLY:O	41:FH:152:ILE:HG12	2.18	0.43
42:FK:70:LEU:HD13	42:FK:145:THR:HB	2.01	0.43
42:FK:140:SER:HA	42:FK:170:SER:OG	2.19	0.43
42:FK:339:ARG:O	42:FK:340:THR:C	2.57	0.43
42:FM:119:LEU:HD11	42:FM:156:ARG:HB3	2.01	0.43
41:GD:359:ARG:HA	41:GD:359:ARG:HD3	1.68	0.43
41:GF:278:SER:HA	41:GF:281:TYR:HD2	1.83	0.43
42:GI:314:ALA:HB2	41:GJ:394:PHE:CZ	2.52	0.43
42:GK:338:LYS:HZ1	42:GK:341:ILE:HB	1.83	0.43
41:GL:5:VAL:HG11	41:GL:123:GLU:OE1	2.19	0.43
41:GL:21:TRP:HA	41:GL:24:ILE:HG22	2.00	0.43
42:GM:210:TYR:HD1	42:GM:210:TYR:HA	1.63	0.43
42:HC:342:GLN:H	42:HC:342:GLN:HG2	1.32	0.43
42:HG:66:VAL:O	42:HG:67:PHE:C	2.56	0.43
42:HI:117:LEU:HD13	42:HI:117:LEU:HA	1.78	0.43
41:HJ:187:LEU:HD23	41:HJ:407:GLU:OE1	2.19	0.43
41:HJ:255:VAL:HG21	42:HK:102:ASN:HD21	1.84	0.43
42:HK:370:LYS:HE2	42:HK:370:LYS:HB2	1.83	0.43
42:IC:14:VAL:HG12	42:IC:67:PHE:HD1	1.83	0.43
41:ID:67:ASP:OD1	41:ID:68:LEU:N	2.50	0.43
42:IE:166:LYS:HE2	42:IE:166:LYS:HB2	1.80	0.43
41:IH:237:THR:OG1	41:IH:241:ARG:NH1	2.52	0.43
41:IJ:108:GLU:HA	41:IJ:111:GLU:HG2	2.00	0.43
41:IJ:317:PHE:HB2	41:IJ:353:VAL:HG12	2.00	0.43
42:IK:71:GLU:HG2	42:IK:98:ASP:HB3	1.99	0.43
42:IK:288:VAL:HA	42:IK:291:ILE:HG22	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:JD:101:TRP:CD1	41:JD:146:GLY:HA2	2.54	0.43
41:JD:303:CYS:HB3	41:JD:373:ALA:HB1	2.01	0.43
41:JD:309:ARG:HD3	41:JD:342:VAL:HA	1.99	0.43
42:JE:274:PRO:HG3	42:JE:374:ALA:HA	2.00	0.43
41:JJ:328:GLU:OE1	41:JJ:329:GLN:NE2	2.51	0.43
42:JK:1:MET:O	42:JK:3:GLU:HG2	2.19	0.43
42:JK:139:HIS:HB2	42:JK:140:SER:H	1.67	0.43
42:JM:104:ALA:O	42:JM:108:TYR:N	2.52	0.43
42:KI:230:LEU:HD21	42:KI:368:LEU:HD21	2.00	0.43
41:KL:131:GLN:HG2	41:KL:251:ARG:NH2	2.34	0.43
41:KL:236:VAL:HG23	41:KL:237:THR:HG23	2.00	0.43
42:LE:151:SER:O	42:LE:155:GLU:HG3	2.19	0.43
42:LI:180:ALA:HB3	42:LI:183:GLU:HB2	2.01	0.43
41:LL:346:PRO:HG3	42:LM:394:LYS:HG2	2.01	0.43
41:MD:4:ILE:HD11	41:MD:131:GLN:HG2	2.00	0.43
41:MD:298:ASN:O	41:MD:299:MET:C	2.57	0.43
42:ME:324:VAL:HG23	42:ME:327:ASP:H	1.83	0.43
42:MG:320:ARG:HG2	42:MG:360:PRO:HD3	2.00	0.43
42:MG:430:LYS:HA	42:MG:430:LYS:HD2	1.36	0.43
41:MJ:27:GLU:OE1	41:MJ:318:ARG:NH2	2.33	0.43
42:MK:207:GLU:HA	42:MK:210:TYR:CD2	2.54	0.43
41:ML:93:GLY:HA3	41:ML:112:LEU:HD11	2.00	0.43
41:MN:50:TYR:HE1	41:MN:237:THR:HG21	1.84	0.43
42:NA:317:LEU:HG	42:NA:377:MET:HG3	2.01	0.43
41:ND:70:PRO:HB3	41:ND:92:PHE:CD2	2.54	0.43
41:ND:100:ASN:HB2	41:ND:103:LYS:HG3	2.01	0.43
41:NH:133:PHE:CD2	41:NH:164:MET:HB2	2.53	0.43
41:NH:323:MET:HG2	42:NI:224:TYR:CZ	2.54	0.43
41:NH:354:CYS:O	41:NH:355:ASP:C	2.56	0.43
42:NK:56:THR:O	42:NK:57:GLY:C	2.57	0.43
42:NK:258:ASN:HD21	41:NL:99:ASN:HD21	1.67	0.43
42:NK:398:MET:HE2	42:NK:398:MET:HB2	1.81	0.43
42:OA:12:ALA:HB3	42:OA:140:SER:HB3	1.99	0.43
42:OA:171:ILE:HD11	45:OA:501:GTP:HN22	1.84	0.43
42:OC:188:ILE:HG22	42:OC:421:ALA:HB1	2.00	0.43
41:OD:36:TYR:CZ	41:OD:44:LEU:HG	2.53	0.43
41:OD:318:ARG:O	41:OD:364:SER:N	2.46	0.43
41:OF:103:LYS:HE2	41:OF:108:GLU:HG3	1.99	0.43
42:OG:97:GLU:HB3	42:OG:98:ASP:H	1.55	0.43
42:OG:304:LYS:HE2	42:OG:304:LYS:HB2	1.29	0.43
41:OH:44:LEU:HD12	41:OH:44:LEU:HA	1.77	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:OH:153:SER:OG	41:OH:154:LYS:N	2.52	0.43
41:OH:174:LYS:HE2	41:OH:174:LYS:HB2	1.51	0.43
41:OJ:209:ASP:HA	41:OJ:212:PHE:HD2	1.82	0.43
42:OK:360:PRO:HG3	42:OK:374:ALA:HB2	2.01	0.43
41:OL:199:THR:HG23	41:OL:265:PHE:HA	2.01	0.43
42:PA:169:PHE:HA	42:PA:202:PHE:O	2.19	0.43
42:PA:313:MET:H	42:PA:313:MET:HG3	1.61	0.43
42:PC:7:VAL:HG12	42:PC:9:VAL:HG22	2.01	0.43
42:PC:157:LEU:HD22	42:PC:157:LEU:HA	1.74	0.43
41:PD:192:LEU:HD12	41:PD:192:LEU:HA	1.77	0.43
42:PG:8:HIS:HB3	42:PG:138:PHE:O	2.18	0.43
41:PH:323:MET:N	41:PH:323:MET:SD	2.92	0.43
42:PK:137:ILE:HG23	42:PK:168:GLU:HA	2.00	0.43
42:PK:261:PRO:HA	41:PL:394:PHE:CD1	2.54	0.43
42:PK:399:TYR:O	42:PK:402:ARG:N	2.51	0.43
41:PL:375:GLN:HA	41:PL:378:PHE:CD2	2.54	0.43
42:QC:120:ASP:OD1	42:QC:121:ARG:N	2.51	0.43
42:QC:196:GLU:HG3	42:QC:197:HIS:CE1	2.53	0.43
42:QC:319:TYR:CD2	42:QC:328:VAL:HG22	2.53	0.43
42:QC:384:ILE:HG22	42:QC:388:TRP:NE1	2.34	0.43
41:QD:2:ARG:HE	41:QD:240:LEU:HD13	1.83	0.43
41:QH:215:LEU:HD23	41:QH:275:SER:HA	2.01	0.43
42:QI:21:TRP:HA	42:QI:24:TYR:HB2	2.00	0.43
42:QI:31:GLN:O	42:QI:33:ASP:N	2.49	0.43
41:QJ:212:PHE:CE1	41:QJ:218:THR:HA	2.53	0.43
41:QJ:338:SER:O	41:QJ:339:SER:C	2.57	0.43
41:QJ:354:CYS:SG	41:QJ:355:ASP:N	2.91	0.43
42:QK:87:PHE:HB3	42:QK:92:LEU:HD11	2.01	0.43
42:QK:88:HIS:O	42:QK:89:PRO:C	2.56	0.43
42:QK:430:LYS:HE3	42:QK:430:LYS:HB2	1.45	0.43
41:QL:147:MET:O	41:QL:149:THR:N	2.52	0.43
41:QL:284:LEU:HD12	41:QL:284:LEU:HA	1.83	0.43
41:QL:374:ILE:HD12	41:QL:374:ILE:HA	1.96	0.43
41:RB:255:VAL:HG23	42:RC:407:TRP:CG	2.54	0.43
42:RC:217:LEU:HA	42:RC:277:SER:HB3	1.99	0.43
42:RC:257:THR:HA	41:RD:397:TRP:CZ2	2.53	0.43
41:RD:214:THR:OG1	41:RD:215:LEU:N	2.51	0.43
41:RF:256:ASN:HB2	41:RF:350:LYS:HG2	2.01	0.43
41:RH:285:THR:HB	41:RH:287:PRO:HD2	2.00	0.43
41:RJ:284:LEU:HA	41:RJ:284:LEU:HD12	1.70	0.43
41:RL:54:ALA:HA	41:SL:283:ALA:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:SE:217:LEU:HD11	42:SE:230:LEU:HD21	2.00	0.43
41:SF:181:GLU:N	41:SF:182:PRO:HD2	2.34	0.43
42:SG:204:VAL:HG13	42:SG:302:MET:HB3	2.00	0.43
41:SH:246:LEU:HB2	41:SH:353:VAL:H	1.83	0.43
41:SH:319:GLY:N	41:SH:354:CYS:O	2.45	0.43
42:SI:278:ALA:O	42:SI:279:GLU:C	2.57	0.43
41:SJ:170:VAL:HG23	41:SJ:202:ILE:H	1.83	0.43
41:SL:316:VAL:HA	41:SL:352:ALA:HB3	2.00	0.43
42:TC:245:ASP:OD1	42:TC:249:ASN:ND2	2.48	0.43
42:TC:335:ILE:HG23	42:TC:341:ILE:HD13	1.99	0.43
41:TD:161:ASP:C	41:TD:162:ARG:HD3	2.39	0.43
42:TE:101:ASN:ND2	45:TE:501:GTP:O3G	2.52	0.43
41:TF:344:TRP:CE3	41:TF:345:ILE:HG23	2.54	0.43
41:TH:34:GLY:HA3	41:TH:58:LYS:HG3	1.99	0.43
41:TH:202:ILE:HG22	41:TH:268:PRO:HG3	1.99	0.43
42:TI:94:THR:OG1	42:TI:95:GLY:N	2.52	0.43
41:TL:139:LEU:HA	41:TL:145:SER:HB2	2.00	0.43
41:TL:218:THR:HG23	41:TL:219:THR:HG23	2.00	0.43
42:TM:334:THR:O	42:TM:337:THR:OG1	2.35	0.43
42:UC:189:LEU:HD11	42:UC:418:PHE:CE1	2.53	0.43
41:UD:286:VAL:HB	41:UD:325:GLU:OE1	2.18	0.43
42:UG:71:GLU:H	42:UG:71:GLU:HG3	1.61	0.43
41:UH:19:LYS:HE3	41:UH:19:LYS:HB3	1.79	0.43
41:UJ:134:GLN:HA	41:UJ:165:ASN:HB2	2.01	0.43
42:UK:251:ASP:OD1	42:UK:254:GLU:HG2	2.19	0.43
41:UL:60:VAL:HG11	41:VL:281:TYR:HB3	2.00	0.43
41:UL:97:ALA:HB2	41:UL:143:THR:HG23	2.01	0.43
41:UL:193:VAL:HG22	41:UL:262:ARG:HH11	1.83	0.43
42:UM:30:ILE:H	42:UM:30:ILE:HG13	1.57	0.43
42:VG:70:LEU:HD13	42:VG:110:ILE:HG23	2.01	0.43
41:VJ:426:GLN:CG	41:VJ:427:ASP:H	2.31	0.43
41:VL:6:HIS:CD2	41:VL:134:GLN:HG3	2.53	0.43
41:VL:262:ARG:NH1	41:VL:414:ASN:OD1	2.51	0.43
42:VM:116:ASP:OD1	42:VM:117:LEU:N	2.52	0.43
42:WE:35:GLN:HA	42:WE:59:GLY:O	2.18	0.43
41:WH:117:LEU:HA	41:WH:117:LEU:HD23	1.72	0.43
42:WI:173:PRO:HG2	42:WI:391:LEU:HD21	2.01	0.43
42:WI:265:ILE:HG23	42:WI:432:TYR:CE1	2.54	0.43
41:WJ:240:LEU:HD13	41:WJ:249:ASP:HB2	2.00	0.43
41:WJ:255:VAL:HG11	42:WK:100:ALA:O	2.19	0.43
41:WJ:324:LYS:HG2	42:WK:222:PRO:HD2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:WL:19:LYS:HE2	41:WL:19:LYS:HB2	1.83	0.43
41:WL:25:SER:HB3	41:WL:30:ILE:HB	2.00	0.43
2:1E:176:LEU:HD23	26:4L:230:TYR:HB3	2.00	0.43
13:2S:146:GLN:NE2	41:GH:32:PRO:HD2	2.29	0.43
16:3C:214:LEU:HD21	42:VM:340:THR:HG22	2.00	0.43
20:3N:117:ILE:HG21	20:3N:122:ILE:HD11	2.00	0.43
20:3N:335:ARG:HG2	20:3N:337:VAL:HG23	2.01	0.43
23:4D:53:MET:HE1	42:UK:78:VAL:HG13	2.00	0.43
27:4R:252:GLU:HB3	27:4R:253:SER:H	1.64	0.43
27:4T:55:GLY:HA2	41:AL:339:SER:CB	2.49	0.43
27:4T:109:LEU:HD22	27:4T:113:PHE:CE2	2.54	0.43
28:4V:127:TYR:HB3	42:GC:124:LYS:HD2	2.01	0.43
31:5E:126:LEU:HD23	31:5E:126:LEU:HA	1.72	0.43
32:5M:362:LEU:HG	32:5M:366:ASN:HD21	1.84	0.43
32:5N:130:ASP:OD2	32:5N:131:GLU:N	2.48	0.43
32:5N:317:LEU:HB3	32:5O:204:VAL:HB	2.01	0.43
33:5S:191:SER:OG	33:5S:192:LEU:N	2.51	0.43
33:5X:202:LYS:HA	33:5X:202:LYS:HD2	1.78	0.43
34:6D:418:LEU:O	34:6D:421:VAL:N	2.52	0.43
34:6D:459:LEU:HD13	34:6D:459:LEU:HA	1.88	0.43
34:6G:389:LYS:HB2	34:6G:431:ILE:HD13	2.01	0.43
34:6G:395:VAL:HA	34:6H:281:VAL:HG21	2.00	0.43
34:6G:435:GLN:HG3	34:6G:439:ARG:NH2	2.34	0.43
34:6H:476:MET:O	34:6H:477:ARG:C	2.56	0.43
34:6H:477:ARG:O	34:6H:478:ARG:C	2.57	0.43
34:6M:284:PHE:HB2	34:6N:397:GLN:HB3	2.00	0.43
35:6R:121:VAL:HG23	35:6R:208:LYS:HG3	2.01	0.43
37:7C:119:ALA:HB1	41:TL:329:GLN:NE2	2.34	0.43
37:7C:164:LYS:HE2	41:SJ:121:ARG:NH2	2.33	0.43
37:7E:219:GLY:H	37:7E:221:HIS:CE1	2.37	0.43
38:7H:162:TYR:HB3	42:HE:116:ASP:OD1	2.19	0.43
41:AB:405:GLU:HA	41:AB:408:PHE:HD2	1.84	0.43
41:AD:427:ASP:OD1	41:AD:428:ALA:N	2.46	0.43
42:AE:107:HIS:CD2	42:AE:152:LEU:HD12	2.53	0.43
42:AG:264:ARG:NH2	42:AG:428:LEU:HB2	2.34	0.43
41:AH:321:MET:HE3	41:AH:321:MET:HB3	1.88	0.43
42:AI:273:ALA:HB3	42:AI:274:PRO:CD	2.48	0.43
42:AK:26:LEU:HD13	42:AK:364:PRO:HD2	2.01	0.43
41:BB:152:ILE:HG23	41:BB:164:MET:SD	2.58	0.43
41:BF:186:THR:HG23	41:BF:415:MET:HG3	2.00	0.43
42:BI:59:GLY:O	42:BI:61:HIS:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BI:273:ALA:HB1	42:BI:291:ILE:HG23	2.01	0.43
42:BI:324:VAL:HG21	41:BJ:219:THR:OG1	2.19	0.43
41:BJ:19:LYS:HA	41:BJ:22:GLU:HG2	2.00	0.43
41:CB:168:SER:HB2	41:CB:201:CYS:HB3	2.01	0.43
41:CD:296:ALA:HB1	41:CD:305:PRO:HD2	2.00	0.43
41:CF:237:THR:O	41:CF:241:ARG:HG3	2.19	0.43
42:CG:3:GLU:H	42:CG:3:GLU:HG2	1.36	0.43
42:CG:184:PRO:HB2	42:CG:398:MET:HE1	2.01	0.43
41:CH:150:LEU:HD12	41:CH:154:LYS:HZ1	1.84	0.43
41:CH:330:MET:HB3	41:CH:349:VAL:HG11	2.01	0.43
42:CI:194:THR:O	42:CI:198:SER:N	2.50	0.43
42:CK:172:TYR:CD1	42:CK:173:PRO:HD2	2.54	0.43
42:CK:296:PHE:HB3	42:CK:341:ILE:HG12	2.00	0.43
41:CL:207:LEU:HB3	41:CL:225:LEU:HD22	2.01	0.43
42:CM:1:MET:HB3	42:CM:2:ARG:H	1.69	0.43
42:DE:89:PRO:HG2	42:EE:280:LYS:CA	2.49	0.43
41:DF:30:ILE:HG23	41:DF:34:GLY:HA2	2.00	0.43
41:DF:255:VAL:HA	42:DG:407:TRP:NE1	2.34	0.43
42:DG:386:GLU:HA	42:DG:389:ALA:HB3	2.00	0.43
41:DH:67:ASP:HB3	41:DH:73:MET:CE	2.49	0.43
41:DH:238:THR:O	41:DH:240:LEU:N	2.47	0.43
41:DH:392:LYS:HE3	41:DH:392:LYS:HB2	1.37	0.43
42:DK:103:TYR:HB3	42:DK:189:LEU:HD13	2.01	0.43
41:DL:237:THR:O	41:DL:241:ARG:NH1	2.52	0.43
41:DL:418:LEU:O	41:DL:421:GLU:HG2	2.19	0.43
41:ED:11:GLN:N	43:ED:501:GDP:O1B	2.52	0.43
41:ED:101:TRP:HE1	41:ED:188:SER:HB3	1.84	0.43
41:ED:152:ILE:O	41:ED:156:ARG:HB2	2.19	0.43
41:ED:256:ASN:CB	41:ED:350:LYS:HG3	2.49	0.43
41:EH:155:ILE:HG13	41:EH:164:MET:HE1	2.01	0.43
42:EK:285:GLN:C	42:EK:287:SER:H	2.20	0.43
42:EM:81:GLY:O	42:EM:84:ARG:HG2	2.19	0.43
42:FC:74:VAL:O	42:FC:77:GLU:HG2	2.19	0.43
41:FD:156:ARG:HA	41:FD:156:ARG:HD3	1.84	0.43
41:FD:288:GLU:O	41:FD:291:GLN:HG3	2.18	0.43
42:FE:49:PHE:HB2	42:FE:53:PHE:HB2	2.00	0.43
42:FE:70:LEU:HD22	42:FE:110:ILE:HG22	2.01	0.43
42:FE:139:HIS:NE2	42:FE:150:THR:HG21	2.33	0.43
42:FG:240:ALA:HA	42:FG:243:ARG:HE	1.84	0.43
41:FH:251:ARG:NE	42:FI:105:ARG:HH22	2.17	0.43
42:FK:16:ILE:HD13	42:FK:16:ILE:O	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:FK:337:THR:OG1	42:FK:338:LYS:N	2.52	0.43
42:GE:9:VAL:HG21	42:GE:149:PHE:HD1	1.84	0.43
41:GH:313:VAL:N	41:GH:348:ASN:O	2.45	0.43
42:GM:176:GLN:O	42:GM:177:VAL:C	2.56	0.43
42:GM:234:ILE:HG21	42:GM:270:ALA:HB1	2.00	0.43
41:HB:107:THR:O	41:HB:109:GLY:N	2.51	0.43
41:HD:44:LEU:HD12	41:HD:44:LEU:HA	1.81	0.43
41:HD:252:LYS:C	41:HD:254:ALA:N	2.73	0.43
42:HG:112:LYS:HB3	42:HG:112:LYS:HE2	1.72	0.43
42:HG:326:LYS:HE3	42:HG:326:LYS:HB3	1.35	0.43
41:HH:387:ALA:HA	41:HH:390:ARG:HE	1.83	0.43
42:HI:27:GLU:OE2	42:HI:243:ARG:NH1	2.52	0.43
42:HI:136:LEU:HB3	42:HI:169:PHE:CE2	2.54	0.43
42:HI:137:ILE:HG12	42:HI:168:GLU:HB2	2.00	0.43
42:HI:422:ARG:HD3	42:HI:422:ARG:HA	1.91	0.43
41:HJ:12:CYS:CB	41:HJ:138:SER:HB3	2.49	0.43
41:HL:178:THR:HB	41:HL:181:GLU:HB2	2.01	0.43
42:HM:100:ALA:C	42:HM:102:ASN:H	2.17	0.43
42:IK:81:GLY:O	42:IK:84:ARG:NH1	2.51	0.43
41:IL:252:LYS:HB3	42:IM:100:ALA:HA	2.00	0.43
41:IL:261:PRO:HG3	42:IM:406:HIS:CD2	2.54	0.43
41:IN:418:LEU:HA	41:IN:421:GLU:HB2	2.01	0.43
42:JC:287:SER:HB2	42:JC:290:GLU:HG2	1.99	0.43
41:JF:255:VAL:HG23	42:JG:407:TRP:CG	2.53	0.43
41:JH:269:GLY:HA3	41:JH:367:PHE:HB3	2.00	0.43
41:JJ:8:GLN:NE2	41:JJ:65:LEU:HD13	2.33	0.43
42:JK:31:GLN:HB2	42:JK:35:GLN:O	2.19	0.43
42:JM:167:LEU:HD11	42:JM:252:LEU:HD13	2.01	0.43
42:JM:230:LEU:HA	42:JM:230:LEU:HD23	1.77	0.43
42:KE:175:PRO:HG3	42:KE:304:LYS:HB3	2.01	0.43
41:KH:140:GLY:HA3	41:KH:181:GLU:HG2	2.01	0.43
42:KM:316:CYS:HB3	42:KM:378:LEU:HB2	2.01	0.43
42:LC:402:ARG:NE	42:LC:415:GLU:OE1	2.51	0.43
41:LD:330:MET:N	41:LD:330:MET:SD	2.92	0.43
42:LI:61:HIS:CD2	42:LI:61:HIS:H	2.35	0.43
42:LI:322:ASP:OD2	42:LI:373:ARG:NH1	2.51	0.43
42:LM:432:TYR:HA	42:LM:435:VAL:HG22	2.00	0.43
41:MF:335:ASN:O	41:MF:336:LYS:C	2.56	0.43
41:MF:397:TRP:CE3	41:MF:397:TRP:HA	2.54	0.43
42:MG:90:GLU:O	42:MG:91:GLN:C	2.57	0.43
41:MH:295:ASP:OD1	41:MH:296:ALA:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:MI:288:VAL:HA	42:MI:291:ILE:HG22	2.00	0.43
42:MK:116:ASP:N	42:MK:116:ASP:OD1	2.51	0.43
41:ML:238:THR:HG22	41:ML:318:ARG:HH11	1.83	0.43
41:MN:30:ILE:HD12	41:MN:30:ILE:HA	1.67	0.43
42:NA:413:MET:HE2	42:NA:413:MET:HB3	1.79	0.43
41:NB:324:LYS:HD3	42:NC:221:ARG:CA	2.48	0.43
41:NB:406:MET:O	41:NB:407:GLU:C	2.57	0.43
41:ND:267:MET:HB3	41:ND:301:ALA:HB3	1.99	0.43
42:NE:31:GLN:HG2	42:NE:32:PRO:CD	2.48	0.43
42:NG:311:LYS:HB3	42:NG:344:VAL:HG12	2.00	0.43
42:NI:105:ARG:HG2	42:NI:411:GLU:HG2	2.01	0.43
42:NI:151:SER:O	42:NI:155:GLU:HG2	2.19	0.43
41:NJ:260:PHE:HZ	42:NK:401:LYS:O	2.01	0.43
42:OA:64:ARG:HH12	42:OA:129:CYS:HB3	1.83	0.43
41:OD:24:ILE:HG23	41:OD:28:HIS:HD2	1.84	0.43
41:OD:86:ARG:NH2	41:OD:123:GLU:OE2	2.52	0.43
41:OD:145:SER:HB2	41:OD:188:SER:HB2	2.00	0.43
42:OE:88:HIS:O	42:OE:92:LEU:HG	2.19	0.43
41:OH:99:ASN:HA	41:OH:142:GLY:HA3	2.00	0.43
41:OH:347:ASN:HD22	42:OI:181:VAL:HA	1.84	0.43
42:OI:240:ALA:O	42:OI:356:ASN:ND2	2.52	0.43
42:OK:91:GLN:HB3	42:OK:121:ARG:HH12	1.84	0.43
41:PB:313:VAL:HG23	41:PB:369:GLY:HA3	2.00	0.43
41:PB:326:VAL:HG21	41:PB:351:THR:HG21	2.01	0.43
42:PC:217:LEU:HD23	42:PC:217:LEU:HA	1.83	0.43
41:PD:56:GLY:O	41:PD:57:GLY:C	2.57	0.43
41:PD:135:LEU:HD21	41:PD:137:HIS:HB3	2.00	0.43
42:PE:326:LYS:HB2	42:PE:326:LYS:HE2	1.55	0.43
41:PF:56:GLY:O	41:PF:57:GLY:C	2.57	0.43
42:PG:202:PHE:HD1	42:PG:268:PRO:HG2	1.83	0.43
42:PG:224:TYR:C	42:PG:226:ASN:N	2.72	0.43
42:PG:362:VAL:HG11	42:PG:369:ALA:O	2.19	0.43
41:PH:149:THR:HG21	41:PH:191:GLN:HB3	2.00	0.43
41:PH:315:ALA:O	41:PH:317:PHE:N	2.52	0.43
42:PI:349:THR:HG21	41:PJ:182:PRO:HD2	2.01	0.43
42:PK:238:ILE:HG23	42:PK:255:PHE:HE2	1.83	0.43
41:PL:375:GLN:H	41:PL:375:GLN:HG3	1.60	0.43
41:QB:114:ASP:OD1	41:QB:115:SER:N	2.52	0.43
42:QC:151:SER:O	42:QC:155:GLU:HG2	2.19	0.43
42:QE:7:VAL:O	42:QE:137:ILE:HG13	2.19	0.43
41:QF:119:VAL:HA	41:QF:122:LYS:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:QF:293:MET:HG3	41:QF:367:PHE:HB2	2.01	0.43
42:QG:206:ASN:HD22	42:QG:206:ASN:HA	1.63	0.43
42:QI:100:ALA:O	42:QI:101:ASN:C	2.56	0.43
42:QI:260:VAL:HG12	41:QJ:396:HIS:HE1	1.83	0.43
41:QJ:1:MET:HG3	42:QK:96:LYS:HD2	2.00	0.43
41:QL:104:GLY:HA2	41:QL:109:GLY:HA3	2.01	0.43
41:QL:411:ALA:O	41:QL:412:GLU:C	2.56	0.43
41:RB:101:TRP:CD1	41:RB:184:ASN:HB3	2.53	0.43
41:RB:238:THR:OG1	41:RB:354:CYS:SG	2.66	0.43
42:RE:259:LEU:HD13	42:RE:316:CYS:HB2	2.00	0.43
42:RG:56:THR:HG23	42:RG:58:ALA:H	1.84	0.43
41:RJ:187:LEU:HD21	41:RJ:408:PHE:HD1	1.84	0.43
41:RJ:265:PHE:HB3	41:RJ:374:ILE:HD13	2.00	0.43
41:RJ:389:PHE:CZ	41:RJ:408:PHE:HB2	2.54	0.43
42:SC:16:ILE:HD13	42:SC:138:PHE:CE1	2.54	0.43
41:SD:101:TRP:HZ3	41:SD:106:TYR:HE1	1.66	0.43
42:SE:228:ASN:HB2	45:SE:501:GTP:N1	2.31	0.43
42:SE:234:ILE:O	42:SE:238:ILE:HG12	2.19	0.43
42:SE:273:ALA:HB1	42:SE:291:ILE:HG12	2.00	0.43
41:SF:395:LEU:HD12	41:SF:395:LEU:HA	1.77	0.43
42:SG:141:PHE:HE2	42:SG:203:MET:HG2	1.82	0.43
41:SH:215:LEU:HD11	41:SH:273:LEU:HD22	2.00	0.43
41:SH:308:GLY:HA3	41:SH:373:ALA:HB2	2.01	0.43
42:SI:16:ILE:HD13	42:SI:228:ASN:HA	2.00	0.43
42:SI:103:TYR:HB2	42:SI:186:ASN:HB3	2.00	0.43
41:SJ:329:GLN:O	41:SJ:333:VAL:HG23	2.18	0.43
42:SK:138:PHE:CZ	42:SK:235:VAL:HG21	2.53	0.43
42:SM:70:LEU:HD23	42:SM:99:ALA:HB2	2.00	0.43
42:SM:351:PHE:HE2	42:SM:353:VAL:HB	1.83	0.43
41:TD:47:ILE:HG12	41:TD:51:TYR:HB2	2.01	0.43
41:TD:210:ILE:HD11	41:TD:273:LEU:HD22	2.01	0.43
41:TH:143:THR:OG1	41:TH:144:GLY:N	2.52	0.43
42:TI:284:GLU:O	42:TI:286:LEU:N	2.49	0.43
42:TI:376:CYS:SG	42:TI:377:MET:N	2.91	0.43
41:TJ:148:GLY:O	41:TJ:152:ILE:HG12	2.19	0.43
42:TK:134:GLY:HA2	42:TK:165:SER:HB2	2.00	0.43
42:TK:370:LYS:HA	42:TK:370:LYS:HD2	1.35	0.43
42:TK:405:VAL:HG22	42:TK:418:PHE:CE2	2.54	0.43
41:TL:310:TYR:N	41:TL:340:TYR:O	2.37	0.43
42:UC:242:LEU:HD11	42:UC:252:LEU:HD13	2.01	0.43
42:UE:27:GLU:OE2	42:UE:243:ARG:NH2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:UF:192:LEU:HG	41:UF:196:THR:HG21	2.01	0.43
41:UH:258:VAL:HA	41:UH:259:PRO:HD3	1.87	0.43
42:UI:169:PHE:CD2	42:UI:235:VAL:HG22	2.54	0.43
42:UI:304:LYS:HA	42:UI:304:LYS:HD2	1.89	0.43
42:UI:352:LYS:HB2	41:UJ:179:VAL:HG23	2.01	0.43
41:UJ:86:ARG:HG3	41:UJ:86:ARG:HH11	1.84	0.43
41:UJ:163:ILE:HG21	41:UJ:250:LEU:HB3	2.00	0.43
41:UJ:304:ASP:N	41:UJ:304:ASP:OD1	2.51	0.43
42:UK:145:THR:OG1	45:UK:501:GTP:O2B	2.32	0.43
41:UL:97:ALA:HB1	41:UL:142:GLY:HA3	2.01	0.43
42:UM:228:ASN:HD21	45:UM:501:GTP:HN1	1.67	0.43
42:VE:220:GLU:HG2	42:VE:221:ARG:HG3	2.01	0.43
42:VE:269:LEU:HD11	42:VE:384:ILE:HD13	1.99	0.43
41:VF:10:GLY:O	41:VF:11:GLN:C	2.57	0.43
41:VH:10:GLY:HA2	41:VH:143:THR:HB	2.01	0.43
41:VJ:237:THR:O	41:VJ:241:ARG:NE	2.52	0.43
42:VK:417:GLU:HA	42:VK:420:GLU:CG	2.48	0.43
42:VK:432:TYR:O	42:VK:435:VAL:HG12	2.19	0.43
41:VL:312:THR:HG21	42:VM:404:PHE:HZ	1.84	0.43
42:VM:104:ALA:HB1	42:VM:411:GLU:HB2	2.01	0.43
42:VM:209:ILE:HG23	42:VM:230:LEU:HD22	2.01	0.43
42:VM:333:ALA:HA	42:VM:336:LYS:HG2	2.00	0.43
42:WE:12:ALA:O	42:WE:13:GLY:C	2.57	0.43
42:WE:259:LEU:HD21	42:WE:268:PRO:HG3	2.01	0.43
41:WF:402:GLY:O	41:WF:403:MET:C	2.57	0.43
42:WG:118:VAL:HG21	42:WG:149:PHE:HZ	1.83	0.43
41:WH:267:MET:HG3	41:WH:301:ALA:HB3	2.01	0.43
42:WK:207:GLU:OE1	42:WK:304:LYS:HD2	2.19	0.43
42:WM:19:ALA:HA	42:WM:22:GLU:HG2	2.00	0.43
41:WN:203:ASP:OD2	41:WN:302:ALA:N	2.51	0.43
19:3J:238:PHE:CD2	19:3J:268:LEU:HB3	2.54	0.43
19:3K:143:ILE:HB	19:3K:145:GLN:HE22	1.84	0.43
20:3O:340:CYS:SG	20:3O:362:ILE:N	2.84	0.43
20:3P:156:CYS:HB2	20:3P:161:LYS:HE3	2.00	0.43
25:4I:38:HIS:CE1	42:IG:45:GLY:H	2.37	0.43
27:4R:172:LEU:HD23	27:4R:175:LEU:HD11	2.01	0.43
31:5J:24:PHE:HB3	31:5J:65:ARG:HD3	2.00	0.43
32:5M:68:GLU:OE2	33:5R:270:ARG:NH2	2.42	0.43
32:5M:173:LYS:NZ	32:5M:176:ARG:HH21	2.17	0.43
32:5O:50:LYS:HB2	32:5O:50:LYS:HE2	1.40	0.43
32:5O:275:ARG:HB2	32:5O:379:LYS:HG3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:5R:262:GLU:HB3	33:5R:266:ARG:HH12	1.83	0.43
33:5W:305:ARG:HA	33:5W:305:ARG:HD3	1.81	0.43
33:5X:321:ARG:HH22	33:5X:332:ASP:HB3	1.84	0.43
34:6B:156:TRP:O	34:6B:160:ILE:HG12	2.18	0.43
34:6B:410:GLU:O	34:6B:412:CYS:N	2.52	0.43
34:6C:276:ASN:CG	34:6D:395:VAL:HG21	2.39	0.43
34:6C:365:LEU:HD12	34:6C:365:LEU:HA	1.76	0.43
34:6C:416:ALA:O	34:6C:417:GLN:C	2.58	0.43
34:6E:412:CYS:SG	34:6E:413:ARG:N	2.92	0.43
34:6G:388:GLU:OE2	34:6G:389:LYS:NZ	2.37	0.43
34:6M:343:VAL:HG13	34:6M:347:PHE:HE2	1.84	0.43
35:6P:74:SER:HB2	35:6Q:405:LEU:HD21	2.00	0.43
35:6Q:333:GLU:HG3	35:6Q:402:LEU:HD11	2.01	0.43
35:6T:162:ARG:NH2	35:6T:168:VAL:H	2.17	0.43
36:6Y:70:ALA:O	36:6Y:73:SER:OG	2.32	0.43
36:6Z:31:LYS:NZ	42:GK:412:GLY:HA2	2.34	0.43
37:7F:66:PRO:HG2	42:NC:160:ASP:HB3	2.01	0.43
41:AB:152:ILE:HD11	41:AB:191:GLN:HE22	1.84	0.43
42:AC:344:VAL:HB	42:AC:346:TRP:CE3	2.54	0.43
41:AD:119:VAL:HA	41:AD:122:LYS:HG2	2.01	0.43
41:AD:132:GLY:HA3	41:AD:163:ILE:HG22	2.00	0.43
41:AD:331:LEU:HD11	42:AE:176:GLN:HB3	2.01	0.43
41:AF:313:VAL:HA	41:AF:369:GLY:HA2	2.01	0.43
41:AF:347:ASN:O	42:AG:181:VAL:HG23	2.19	0.43
41:AH:21:TRP:CH2	41:AH:50:TYR:HB3	2.53	0.43
41:AH:297:LYS:HE3	41:AH:297:LYS:HB3	1.38	0.43
41:AH:325:GLU:HG3	42:AI:221:ARG:HG3	2.01	0.43
42:AI:31:GLN:H	42:AI:31:GLN:HG3	1.66	0.43
41:AJ:196:THR:HG21	41:AJ:199:THR:HB	2.01	0.43
41:AJ:262:ARG:HH21	41:AJ:421:GLU:CD	2.22	0.43
42:AK:385:ALA:HA	42:AK:388:TRP:HD1	1.83	0.43
42:AK:408:TYR:C	42:AK:410:GLY:H	2.21	0.43
41:AL:98:GLY:O	41:AL:99:ASN:C	2.57	0.43
41:AL:271:ALA:HB3	41:AL:272:PRO:HD3	2.01	0.43
41:BF:272:PRO:HG3	41:BF:364:SER:HA	2.01	0.43
42:BI:56:THR:HG21	42:CI:283:HIS:O	2.19	0.43
42:BI:311:LYS:HE3	42:BI:344:VAL:HA	2.01	0.43
42:BK:66:VAL:HG23	42:BK:91:GLN:HB2	2.00	0.43
41:BL:133:PHE:HB2	41:BL:164:MET:SD	2.59	0.43
41:CB:3:GLU:OE1	41:CB:3:GLU:N	2.52	0.43
41:CB:69:GLU:HB2	41:CB:96:GLY:HA2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:CB:254:ALA:HB1	42:CC:407:TRP:CZ3	2.54	0.43
42:CC:41:THR:OG1	42:CC:42:ILE:N	2.51	0.43
42:CC:88:HIS:CB	42:CC:91:GLN:HB3	2.39	0.43
42:CE:2:ARG:HH21	42:CE:243:ARG:HA	1.84	0.43
42:CE:288:VAL:HA	42:CE:291:ILE:HG22	2.00	0.43
41:CF:262:ARG:HE	41:CF:262:ARG:HB3	1.57	0.43
42:CG:131:GLY:O	42:CG:132:LEU:C	2.57	0.43
42:CG:323:VAL:HB	42:CG:355:ILE:CG2	2.48	0.43
41:CH:64:VAL:HG21	41:CH:120:VAL:HG22	2.01	0.43
42:CI:200:CYS:HA	42:CI:266:HIS:HB2	2.01	0.43
42:CI:209:ILE:HB	42:CI:227:LEU:HD22	1.99	0.43
41:CJ:188:SER:O	41:CJ:191:GLN:N	2.52	0.43
42:CK:5:ILE:HD12	42:CK:132:LEU:HD11	2.00	0.43
41:CL:246:LEU:HD21	45:CM:501:GTP:C8	2.54	0.43
42:CM:67:PHE:HB2	42:CM:92:LEU:HD13	2.00	0.43
42:CM:335:ILE:HD13	42:CM:338:LYS:HD2	1.99	0.43
41:DF:345:ILE:HA	41:DF:345:ILE:HD12	1.89	0.43
42:DG:201:ALA:HB3	42:DG:267:PHE:CE2	2.54	0.43
41:DH:293:MET:HE3	41:DH:293:MET:HB3	1.74	0.43
41:DJ:6:HIS:HD2	41:DJ:20:PHE:CE2	2.37	0.43
42:DK:239:THR:O	42:DK:239:THR:OG1	2.35	0.43
42:DK:420:GLU:O	42:DK:421:ALA:C	2.57	0.43
42:DM:33:ASP:N	42:DM:33:ASP:OD1	2.51	0.43
42:EC:326:LYS:NZ	41:ED:220:PRO:HG2	2.33	0.43
41:ED:4:ILE:HG23	41:ED:132:GLY:O	2.19	0.43
42:EE:317:LEU:HB3	42:EE:319:TYR:CE1	2.47	0.43
42:EE:319:TYR:CZ	42:EE:328:VAL:HG23	2.54	0.43
42:EE:329:ASN:HA	42:EE:332:ILE:CD1	2.48	0.43
42:EG:140:SER:O	42:EG:141:PHE:C	2.57	0.43
42:EG:171:ILE:HA	42:EG:204:VAL:O	2.19	0.43
42:EG:209:ILE:HB	42:EG:227:LEU:HG	2.01	0.43
42:EG:414:GLU:O	42:EG:415:GLU:C	2.57	0.43
41:EH:131:GLN:OE1	41:EH:251:ARG:NH1	2.52	0.43
41:EH:304:ASP:OD1	41:EH:304:ASP:N	2.49	0.43
42:EI:17:GLY:HA2	42:EI:20:CYS:SG	2.58	0.43
41:EL:141:GLY:O	41:EL:184:ASN:ND2	2.52	0.43
41:EL:375:GLN:HG3	41:EL:376:GLU:N	2.34	0.43
42:EM:138:PHE:N	42:EM:138:PHE:CD2	2.87	0.43
42:EM:153:LEU:HD12	42:EM:153:LEU:HA	1.71	0.43
42:FC:229:ARG:HD2	42:FC:366:GLY:HA3	2.01	0.43
42:FC:296:PHE:HE2	42:FC:317:LEU:HD11	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:FD:16:ILE:HD11	41:FD:136:THR:HG22	2.01	0.43
42:FE:12:ALA:HB1	42:FE:171:ILE:HD12	2.00	0.43
41:FF:308:GLY:HA3	41:FF:373:ALA:HB2	2.01	0.43
42:FG:177:VAL:HG21	42:FG:210:TYR:HE2	1.84	0.43
42:FG:271:THR:HB	42:FG:301:GLN:HA	2.00	0.43
42:FG:326:LYS:HB2	41:FH:220:PRO:HD2	2.00	0.43
42:FI:254:GLU:O	42:FI:352:LYS:NZ	2.52	0.43
41:FJ:139:LEU:HB2	41:FJ:171:PRO:HD3	2.01	0.43
42:FK:223:THR:O	42:FK:226:ASN:N	2.52	0.43
42:FM:179:THR:N	42:FM:183:GLU:OE1	2.51	0.43
42:FM:273:ALA:HB1	42:FM:294:ALA:HB3	2.00	0.43
42:FM:408:TYR:HD2	42:FM:418:PHE:CZ	2.36	0.43
42:GC:254:GLU:OE2	42:GC:258:ASN:ND2	2.52	0.43
41:GD:100:ASN:HD22	41:GD:103:LYS:HG3	1.83	0.43
41:GD:170:VAL:O	41:GD:171:PRO:C	2.56	0.43
42:GI:306:ASP:HA	42:GI:307:PRO:HD3	1.87	0.43
42:GK:88:HIS:CD2	42:GK:89:PRO:HD2	2.45	0.43
42:GM:3:GLU:CG	42:GM:129:CYS:HB3	2.39	0.43
41:HB:131:GLN:HE21	41:HB:131:GLN:HB2	1.56	0.43
42:HC:7:VAL:HG13	42:HC:66:VAL:HG13	2.00	0.43
42:HC:263:PRO:HD3	41:HD:396:HIS:CG	2.54	0.43
41:HD:367:PHE:O	41:HD:369:GLY:N	2.52	0.43
42:HE:75:ILE:HG23	42:HE:92:LEU:HD22	2.01	0.43
42:HE:136:LEU:HD11	42:HE:252:LEU:HD11	2.01	0.43
41:HF:235:GLY:HA3	41:HF:366:THR:HG21	2.01	0.43
42:HI:88:HIS:C	42:HI:90:GLU:H	2.22	0.43
41:HJ:228:LEU:HD12	41:HJ:228:LEU:HA	1.89	0.43
41:HL:64:VAL:HG22	41:HL:66:VAL:HG13	2.01	0.43
41:HL:213:ARG:HD2	41:HL:297:LYS:NZ	2.34	0.43
42:HM:101:ASN:HD22	42:HM:101:ASN:HA	1.50	0.43
42:IG:172:TYR:HD2	42:IG:205:ASP:HB2	1.83	0.43
42:IK:335:ILE:HD12	42:IK:335:ILE:HA	1.92	0.43
41:IN:252:LYS:HA	41:IN:252:LYS:HD3	1.24	0.43
41:IN:375:GLN:NE2	41:IN:419:VAL:O	2.49	0.43
42:JE:101:ASN:C	42:JE:101:ASN:HD22	2.21	0.43
42:JE:167:LEU:HD13	42:JE:252:LEU:HD13	2.00	0.43
41:JH:294:PHE:HE1	41:JH:313:VAL:HG11	1.84	0.43
42:JM:109:THR:HB	42:JM:110:ILE:H	1.64	0.43
42:JM:430:LYS:O	42:JM:431:ASP:C	2.57	0.43
41:KL:246:LEU:HB3	41:KL:353:VAL:H	1.84	0.43
42:LC:192:HIS:O	42:LC:195:LEU:HD22	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:LF:36:TYR:OH	41:LF:40:SER:O	2.37	0.43
41:LF:265:PHE:HB3	41:LF:374:ILE:HD13	2.00	0.43
42:LG:398:MET:HB3	42:LG:403:ALA:HB3	2.01	0.43
42:LG:406:HIS:HA	42:LG:409:VAL:HG12	1.99	0.43
41:LH:12:CYS:HB2	43:LH:501:GDP:C8	2.54	0.43
41:LH:234:SER:HB2	41:LH:241:ARG:HH22	1.84	0.43
42:LK:220:GLU:HG2	42:LK:221:ARG:HG3	2.01	0.43
41:LN:285:THR:O	41:LN:288:GLU:HG3	2.19	0.43
42:MC:287:SER:H	42:MC:290:GLU:HB3	1.84	0.43
41:MF:116:VAL:HB	41:MF:151:LEU:HD21	2.00	0.43
41:MF:253:LEU:HD12	41:MF:253:LEU:HA	1.88	0.43
42:MG:31:GLN:H	42:MG:31:GLN:HG3	1.49	0.43
41:MH:178:THR:HG22	41:MH:180:VAL:H	1.83	0.43
41:MJ:3:GLU:CD	41:MJ:3:GLU:H	2.22	0.43
42:MK:308:ARG:CD	42:NI:283:HIS:HB3	2.48	0.43
41:MN:165:ASN:HB2	41:MN:200:TYR:CE1	2.54	0.43
41:MN:331:LEU:HA	41:MN:334:GLN:HB3	2.01	0.43
42:NC:87:PHE:HB3	42:NC:92:LEU:CD1	2.49	0.43
42:NC:273:ALA:HB1	42:NC:291:ILE:HB	2.00	0.43
42:NC:381:THR:C	42:NC:383:ALA:N	2.72	0.43
42:NK:324:VAL:HG13	42:NK:326:LYS:H	1.83	0.43
41:NL:133:PHE:HE2	41:NL:155:ILE:HD11	1.84	0.43
41:NL:253:LEU:O	41:NL:257:MET:HG2	2.19	0.43
41:OB:42:LEU:HD12	41:OB:42:LEU:HA	1.74	0.43
41:OB:294:PHE:CE1	41:OB:341:PHE:HZ	2.36	0.43
42:OI:241:SER:OG	42:OI:250:VAL:N	2.52	0.43
41:OJ:69:GLU:C	41:OJ:71:GLY:H	2.22	0.43
42:PA:132:LEU:HD23	42:PA:132:LEU:HA	1.85	0.43
41:PB:61:PRO:HG2	41:PB:84:ILE:HG23	2.01	0.43
41:PB:306:ARG:HH22	41:PB:339:SER:HB2	1.83	0.43
41:PD:209:ASP:HA	41:PD:212:PHE:HE1	1.83	0.43
42:PE:119:LEU:HD13	42:PE:156:ARG:HE	1.82	0.43
41:PF:149:THR:O	41:PF:152:ILE:HG12	2.18	0.43
41:PF:425:TYR:O	41:PF:426:GLN:C	2.57	0.43
42:PG:36:MET:HB3	42:PG:61:HIS:CD2	2.54	0.43
42:PG:103:TYR:HB3	42:PG:413:MET:HE1	2.00	0.43
42:PI:21:TRP:CD1	42:PI:67:PHE:HZ	2.37	0.43
42:PI:394:LYS:HA	42:PI:394:LYS:HD3	1.75	0.43
41:PJ:375:GLN:HE21	41:PJ:375:GLN:HB3	1.57	0.43
42:PK:2:ARG:HH21	42:PK:242:LEU:HD23	1.84	0.43
42:PK:167:LEU:HD11	42:PK:256:GLN:HE21	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:QB:67:ASP:OD1	41:QB:72:THR:OG1	2.35	0.43
42:QC:88:HIS:HA	42:RC:283:HIS:NE2	2.34	0.43
42:QE:68:VAL:HG11	42:QE:149:PHE:CE2	2.54	0.43
42:QE:129:CYS:SG	42:QE:132:LEU:HB2	2.59	0.43
41:QF:323:MET:HG2	42:QG:224:TYR:CE1	2.54	0.43
42:QG:296:PHE:HD2	42:QG:341:ILE:HD13	1.83	0.43
42:QG:362:VAL:HG12	42:QG:370:LYS:HD3	2.01	0.43
41:QH:164:MET:H	41:QH:197:ASP:CG	2.21	0.43
42:QI:211:ASP:HB2	42:QI:215:ARG:HE	1.83	0.43
42:QK:242:LEU:H	42:QK:242:LEU:HG	1.58	0.43
42:QK:288:VAL:HA	42:QK:291:ILE:HD12	2.01	0.43
41:QL:160:PRO:O	41:QL:161:ASP:C	2.56	0.43
41:QL:314:ALA:N	41:QL:368:ILE:O	2.52	0.43
41:RB:20:PHE:CZ	41:RB:24:ILE:HD11	2.54	0.43
42:RC:306:ASP:HB3	42:RC:309:HIS:CE1	2.54	0.43
41:RD:174:LYS:HB3	41:RD:174:LYS:HE2	1.45	0.43
41:RD:187:LEU:HD12	41:RD:187:LEU:HA	1.88	0.43
41:RD:309:ARG:HD3	41:RD:343:GLU:OE2	2.19	0.43
42:RK:118:VAL:O	42:RK:122:ILE:HG12	2.18	0.43
42:SC:12:ALA:HB3	42:SC:140:SER:HB2	2.01	0.43
42:SC:315:CYS:HB3	42:SC:377:MET:CE	2.49	0.43
42:SC:380:ASN:O	42:SC:380:ASN:ND2	2.49	0.43
42:SE:274:PRO:HD3	42:SE:291:ILE:HD11	2.00	0.43
42:SE:401:LYS:HE3	42:SE:401:LYS:HB2	1.43	0.43
41:SF:188:SER:O	41:SF:189:VAL:C	2.57	0.43
42:SG:203:MET:HE1	42:SG:267:PHE:HB3	2.01	0.43
42:SI:91:GLN:HB2	42:SI:121:ARG:HH21	1.84	0.43
42:SI:277:SER:H	42:SI:280:LYS:HD2	1.83	0.43
41:SL:134:GLN:HE21	41:SL:134:GLN:HB3	1.61	0.43
42:SM:385:ALA:HB2	42:SM:432:TYR:CD2	2.54	0.43
42:TC:274:PRO:HB2	42:TC:371:VAL:HG11	2.01	0.43
42:TE:395:PHE:HZ	42:TE:418:PHE:HD2	1.65	0.43
42:TG:439:SER:OG	41:TH:390:ARG:NH1	2.52	0.43
41:TJ:358:PRO:HG2	41:TJ:361:LEU:CB	2.49	0.43
42:TK:228:ASN:HA	42:TK:231:ILE:HG13	2.00	0.43
42:TK:361:THR:OG1	42:TK:362:VAL:N	2.51	0.43
42:TM:217:LEU:HD12	42:TM:367:ASP:HB2	2.01	0.43
42:TM:320:ARG:HH22	42:TM:360:PRO:HA	1.83	0.43
42:UC:176:GLN:HE22	42:UC:207:GLU:HG3	1.84	0.43
41:UJ:232:THR:HA	41:UJ:366:THR:HG21	2.01	0.43
42:UM:70:LEU:HD23	42:UM:114:LEU:HD23	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:UM:70:LEU:HD12	42:UM:99:ALA:HB2	2.01	0.43
42:UM:273:ALA:HB2	42:UM:295:CYS:HB3	2.01	0.43
41:VF:64:VAL:HA	41:VF:89:ASN:HB3	2.00	0.43
41:VF:237:THR:O	41:VF:237:THR:OG1	2.37	0.43
41:VH:113:VAL:HG22	41:VH:117:LEU:HD23	2.00	0.43
42:VK:42:ILE:H	42:VK:42:ILE:HG12	1.55	0.43
42:VK:344:VAL:HG11	42:VK:346:TRP:CE2	2.54	0.43
42:VK:391:LEU:HD13	42:VK:391:LEU:HA	1.73	0.43
41:VL:31:ASP:OD1	41:VL:35:THR:N	2.51	0.43
41:WD:36:TYR:OH	41:WD:40:SER:O	2.36	0.43
41:WF:3:GLU:HB2	41:WF:127:CYS:HB3	2.01	0.43
41:WH:187:LEU:HD13	41:WH:403:MET:HE1	2.01	0.43
41:WJ:256:ASN:HD22	42:WK:181:VAL:HG12	1.83	0.43
3:II:263:ARG:NH1	42:SG:58:ALA:HB3	2.34	0.42
20:3N:11:HIS:O	41:KD:72:THR:HG22	2.19	0.42
21:3V:191:LEU:HG	21:3V:195:GLU:OE2	2.18	0.42
25:4J:61:PHE:HZ	25:4J:93:LYS:HD2	1.84	0.42
25:4J:147:ASN:HB3	34:6H:155:PHE:CE2	2.54	0.42
28:4V:129:VAL:HG13	42:HC:289:ALA:HB3	2.00	0.42
32:5L:364:GLY:HA3	32:5M:30:GLN:HE22	1.83	0.42
32:5N:21:LYS:HA	32:5N:24:TYR:HB2	2.00	0.42
32:5O:78:ASP:HB2	34:6C:275:ARG:NH2	2.34	0.42
32:5O:246:LEU:HD13	32:5O:246:LEU:HA	1.80	0.42
33:5Q:205:PRO:HG3	33:5R:315:HIS:CE1	2.54	0.42
33:5V:261:THR:HG21	33:5V:394:ARG:HH22	1.82	0.42
33:5V:262:GLU:O	33:5V:263:PHE:C	2.55	0.42
33:5W:356:LEU:HD12	33:5W:356:LEU:HA	1.84	0.42
33:5W:412:THR:OG1	34:6B:172:ASN:ND2	2.49	0.42
34:6A:107:PHE:CZ	34:6B:360:LYS:HG3	2.54	0.42
34:6A:234:LYS:HD3	34:6A:234:LYS:HA	1.49	0.42
34:6A:312:GLN:HA	34:6A:315:ARG:HE	1.83	0.42
34:6B:387:VAL:O	34:6B:388:GLU:C	2.57	0.42
34:6C:248:ARG:HA	34:6C:248:ARG:HD2	1.71	0.42
34:6C:402:GLU:HG2	34:6C:405:ARG:HD2	2.01	0.42
34:6E:407:PRO:HD2	34:6E:410:GLU:HB2	2.00	0.42
34:6G:196:ARG:HH11	35:6Q:44:SER:HB2	1.84	0.42
34:6H:356:ASP:C	34:6H:360:LYS:HZ2	2.22	0.42
34:6M:157:LYS:O	34:6M:161:ILE:HG12	2.19	0.42
34:6M:293:THR:HG21	34:6N:413:ARG:HB3	2.00	0.42
35:6T:175:GLU:HB3	35:6T:300:VAL:HG22	2.01	0.42
35:6T:304:PHE:CD1	35:6T:430:CYS:HB2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:6T:349:PRO:HA	35:6T:352:VAL:HG12	2.01	0.42
35:6V:10:LYS:HE2	35:6V:10:LYS:HB2	1.81	0.42
35:6V:58:GLN:O	35:6V:59:ASN:C	2.57	0.42
36:6Y:103:PHE:HA	36:6Y:106:ARG:HG2	2.00	0.42
37:7E:183:ALA:HB1	42:OI:308:ARG:HD3	2.00	0.42
37:7E:205:ARG:HB2	41:OH:296:ALA:HB3	2.01	0.42
38:7H:55:TYR:CE2	38:7H:67:ALA:HB2	2.54	0.42
38:7H:205:THR:N	42:IC:308:ARG:HH12	2.17	0.42
38:7I:265:LEU:HD11	41:HL:91:VAL:HG13	2.01	0.42
41:AB:267:MET:HA	41:AB:268:PRO:HD3	1.86	0.42
41:AD:25:SER:O	41:AD:29:GLY:N	2.52	0.42
41:AF:341:PHE:HB3	41:AF:348:ASN:ND2	2.34	0.42
41:AH:257:MET:SD	41:AH:314:ALA:HB2	2.59	0.42
42:AI:119:LEU:HD13	42:AI:119:LEU:HA	1.79	0.42
42:AI:317:LEU:HD13	42:AI:377:MET:HB2	2.01	0.42
41:AL:284:LEU:HD12	41:AL:284:LEU:HA	1.80	0.42
41:BD:86:ARG:HG3	41:BD:89:ASN:HB2	2.00	0.42
41:BD:272:PRO:HD3	41:BD:364:SER:HA	2.01	0.42
42:BG:64:ARG:HE	42:BG:128:GLN:HE22	1.67	0.42
42:BG:205:ASP:OD1	42:BG:206:ASN:N	2.52	0.42
42:BI:183:GLU:H	42:BI:184:PRO:HD2	1.84	0.42
41:BJ:77:ARG:NH2	41:BJ:85:PHE:HB2	2.34	0.42
41:BJ:131:GLN:NE2	41:BJ:251:ARG:HH11	2.16	0.42
41:BJ:139:LEU:HD23	41:BJ:170:VAL:HG23	2.01	0.42
41:CD:21:TRP:HZ2	41:CD:63:ALA:HB2	1.84	0.42
41:CD:258:VAL:HG13	42:CE:407:TRP:HE1	1.84	0.42
41:CD:271:ALA:HB2	41:CD:293:MET:HG3	1.99	0.42
42:CE:435:VAL:HA	41:CF:391:ARG:HH22	1.84	0.42
41:CF:21:TRP:HA	41:CF:24:ILE:CG1	2.49	0.42
41:CH:20:PHE:HA	41:CH:230:SER:HB3	2.01	0.42
42:CI:164:LYS:O	42:CI:166:LYS:NZ	2.51	0.42
41:CJ:330:MET:HG2	41:CJ:349:VAL:HG11	2.00	0.42
42:DC:273:ALA:HB2	42:DC:295:CYS:HB3	2.01	0.42
41:DD:133:PHE:HD2	41:DD:155:ILE:HD13	1.84	0.42
41:DD:274:THR:OG1	41:DD:282:ARG:NE	2.51	0.42
42:DE:27:GLU:HB3	42:DE:361:THR:HG21	2.01	0.42
41:DH:42:LEU:H	41:DH:42:LEU:HG	1.62	0.42
42:DK:202:PHE:O	42:DK:204:VAL:N	2.45	0.42
42:DK:322:ASP:HB3	42:DK:373:ARG:HD3	2.01	0.42
41:DL:8:GLN:HG3	41:DL:65:LEU:HG	2.01	0.42
42:EC:21:TRP:O	42:EC:25:CYS:N	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:EC:90:GLU:OE1	42:FC:283:HIS:NE2	2.52	0.42
42:EE:11:GLN:C	42:EE:13:GLY:N	2.73	0.42
42:EE:153:LEU:HD12	42:EE:153:LEU:HA	1.77	0.42
42:EE:372:GLN:OE1	42:EE:373:ARG:NH2	2.52	0.42
42:EG:231:ILE:HA	42:EG:234:ILE:HD12	2.01	0.42
41:EH:28:HIS:CE1	41:EH:241:ARG:HH11	2.37	0.42
42:EI:317:LEU:HD21	42:EI:377:MET:HG2	2.00	0.42
42:EK:5:ILE:CD1	42:EK:126:ALA:HB2	2.49	0.42
42:EK:112:LYS:H	42:EK:112:LYS:HG3	1.64	0.42
42:EK:252:LEU:C	42:EK:254:GLU:H	2.22	0.42
42:EK:262:TYR:CE2	42:EK:435:VAL:HG23	2.54	0.42
42:EK:274:PRO:O	42:EK:276:ILE:N	2.51	0.42
41:EL:399:THR:O	41:EL:400:GLY:C	2.58	0.42
42:EM:115:ILE:HD12	42:EM:115:ILE:HA	1.90	0.42
42:EM:285:GLN:O	42:EM:287:SER:N	2.52	0.42
42:FC:332:ILE:HG13	42:FC:351:PHE:CD2	2.54	0.42
41:FD:100:ASN:HB3	41:FD:103:LYS:HB2	2.02	0.42
41:FD:152:ILE:HD13	41:FD:152:ILE:HA	1.88	0.42
41:FD:377:LEU:O	41:FD:381:ILE:HG22	2.19	0.42
41:FF:183:TYR:HE2	41:FF:389:PHE:HB2	1.84	0.42
41:FF:255:VAL:HG21	42:FG:100:ALA:O	2.19	0.42
41:FH:196:THR:HG21	41:FH:264:HIS:CE1	2.54	0.42
41:FH:207:LEU:HB3	41:FH:225:LEU:HD22	2.01	0.42
42:FK:167:LEU:O	42:FK:169:PHE:N	2.52	0.42
42:FK:287:SER:O	42:FK:291:ILE:HG12	2.19	0.42
42:FK:295:CYS:SG	42:FK:377:MET:HG3	2.58	0.42
41:FL:111:GLU:H	41:FL:111:GLU:HG2	1.35	0.42
41:FL:211:CYS:HA	41:FL:215:LEU:HB2	2.00	0.42
42:FM:204:VAL:HA	42:FM:303:VAL:HB	2.01	0.42
42:FM:271:THR:O	42:FM:377:MET:N	2.52	0.42
42:GI:11:GLN:HG2	42:GI:74:VAL:HG21	2.01	0.42
41:GJ:21:TRP:CE3	41:GJ:24:ILE:HD11	2.54	0.42
41:GJ:331:LEU:HB2	42:GK:177:VAL:HB	2.01	0.42
41:HB:164:MET:O	41:HB:197:ASP:N	2.51	0.42
42:HC:329:ASN:HA	41:HD:175:VAL:HG11	2.01	0.42
41:HH:19:LYS:O	41:HH:22:GLU:HB3	2.19	0.42
41:HH:34:GLY:HA3	41:HH:58:LYS:HG3	2.01	0.42
42:HI:56:THR:HA	42:II:285:GLN:NE2	2.34	0.42
41:HJ:204:ASN:HA	41:HJ:207:LEU:HD12	1.99	0.42
42:HM:269:LEU:HD21	42:HM:303:VAL:HB	2.01	0.42
42:IE:5:ILE:HG13	42:IE:132:LEU:HD11	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:IE:261:PRO:HB2	42:IE:262:TYR:H	1.69	0.42
41:IH:39:ASP:OD1	41:IH:40:SER:N	2.49	0.42
41:IJ:7:LEU:HB3	41:IJ:135:LEU:HD13	2.01	0.42
41:IN:65:LEU:HD23	41:IN:85:PHE:CE2	2.54	0.42
41:IN:215:LEU:HD12	41:IN:215:LEU:HA	1.83	0.42
41:JD:149:THR:HA	41:JD:152:ILE:HG22	2.00	0.42
41:JD:306:ARG:HA	41:JD:340:TYR:CE1	2.54	0.42
41:JD:324:LYS:HG3	42:JE:210:TYR:CD2	2.53	0.42
42:JI:52:PHE:HZ	42:JI:239:THR:HG21	1.82	0.42
41:JJ:296:ALA:HB3	41:JJ:306:ARG:HH12	1.83	0.42
42:JK:183:GLU:O	42:JK:184:PRO:C	2.58	0.42
41:KD:260:PHE:HB2	41:KD:263:LEU:HD13	2.00	0.42
41:KD:262:ARG:HH21	41:KD:418:LEU:HB2	1.83	0.42
42:KI:172:TYR:HB2	42:KI:203:MET:HB3	1.99	0.42
42:KI:262:TYR:HB2	42:KI:265:ILE:HG12	2.00	0.42
41:KJ:283:ALA:HB2	41:LJ:54:ALA:HA	2.01	0.42
42:KM:398:MET:HE2	42:KM:398:MET:HB2	1.77	0.42
42:LC:68:VAL:HG23	42:LC:93:ILE:HB	2.01	0.42
42:LG:142:GLY:HA3	42:LG:183:GLU:HG3	2.01	0.42
41:LH:135:LEU:HB3	41:LH:166:THR:HG22	2.00	0.42
41:LJ:139:LEU:HD12	41:LJ:170:VAL:HG12	2.00	0.42
42:LK:11:GLN:HA	42:LK:74:VAL:HG11	2.01	0.42
42:LK:298:PRO:HB3	42:LK:307:PRO:HD2	2.00	0.42
41:LL:91:VAL:HG11	41:LL:116:VAL:HG22	2.02	0.42
41:MD:183:TYR:O	41:MD:184:ASN:C	2.57	0.42
42:ME:317:LEU:N	42:ME:352:LYS:O	2.51	0.42
42:MG:114:LEU:HD23	42:MG:114:LEU:HA	1.74	0.42
41:MJ:172:SER:HB3	41:MJ:205:GLU:HG3	2.01	0.42
41:MN:416:ASN:HD22	41:MN:416:ASN:HA	1.61	0.42
42:NA:90:GLU:HG2	42:NA:91:GLN:H	1.83	0.42
41:NB:232:THR:HG21	41:NB:268:PRO:HB3	2.01	0.42
42:NC:169:PHE:CZ	42:NC:235:VAL:HG23	2.54	0.42
42:NG:252:LEU:HD22	42:NG:252:LEU:HA	1.78	0.42
42:NI:287:SER:O	42:NI:288:VAL:C	2.57	0.42
41:NJ:344:TRP:HB2	42:NK:401:LYS:HD2	2.00	0.42
42:NK:74:VAL:O	42:NK:78:VAL:HB	2.19	0.42
42:NK:325:PRO:HB2	43:NL:501:GDP:HN21	1.84	0.42
41:NL:5:VAL:HA	41:NL:62:ARG:NH1	2.34	0.42
41:NL:184:ASN:OD1	41:NL:398:TYR:OH	2.35	0.42
42:OA:297:GLU:HB2	42:OA:300:ASN:H	1.83	0.42
41:OB:355:ASP:O	41:OB:356:ILE:C	2.56	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:OC:109:THR:O	42:OC:112:LYS:N	2.34	0.42
41:OD:228:LEU:HB3	41:OD:300:MET:SD	2.59	0.42
41:OF:140:GLY:HA2	41:OF:181:GLU:HG3	2.01	0.42
42:OG:340:THR:O	42:OG:342:GLN:N	2.52	0.42
41:OH:289:LEU:HD23	41:OH:289:LEU:HA	1.77	0.42
41:OJ:263:LEU:HD21	41:OJ:421:GLU:HB3	1.99	0.42
41:OJ:324:LYS:HE2	42:OK:221:ARG:HA	2.00	0.42
42:PA:73:THR:OG1	42:PA:74:VAL:N	2.52	0.42
42:PA:140:SER:O	42:PA:142:GLY:N	2.51	0.42
42:PA:228:ASN:OD1	45:PA:501:GTP:N1	2.42	0.42
42:PA:230:LEU:HD12	42:PA:230:LEU:HA	1.80	0.42
41:PB:65:LEU:HD12	41:PB:65:LEU:HA	1.84	0.42
41:PD:246:LEU:HD11	45:PE:501:GTP:H3'	2.00	0.42
42:PE:339:ARG:O	42:PE:340:THR:C	2.57	0.42
41:PF:142:GLY:O	41:PF:143:THR:C	2.57	0.42
41:PF:237:THR:O	41:PF:238:THR:C	2.57	0.42
42:PG:299:ALA:O	42:PG:300:ASN:C	2.57	0.42
41:PH:146:GLY:O	41:PH:148:GLY:N	2.52	0.42
41:PH:149:THR:O	41:PH:151:LEU:N	2.47	0.42
41:PH:336:LYS:HA	41:PH:336:LYS:HD2	1.25	0.42
42:PI:242:LEU:O	42:PI:243:ARG:C	2.57	0.42
42:PI:422:ARG:HD3	42:PI:422:ARG:HA	1.86	0.42
41:PJ:167:PHE:HA	41:PJ:200:TYR:O	2.19	0.42
42:PK:232:GLY:O	42:PK:235:VAL:HG22	2.18	0.42
41:PL:123:GLU:H	41:PL:123:GLU:HG3	1.74	0.42
41:PL:137:HIS:CE1	41:PL:145:SER:HA	2.54	0.42
41:PL:358:PRO:HG2	41:PL:364:SER:HB2	2.01	0.42
41:QB:109:GLY:O	41:QB:113:VAL:N	2.42	0.42
41:QB:189:VAL:HA	41:QB:192:LEU:HG	2.01	0.42
42:QC:260:VAL:HB	41:QD:397:TRP:HZ2	1.83	0.42
42:QC:372:GLN:HG2	42:QC:373:ARG:HG2	2.01	0.42
41:QF:196:THR:HG1	41:QF:264:HIS:CD2	2.35	0.42
41:QJ:238:THR:O	41:QJ:242:PHE:N	2.51	0.42
42:QK:30:ILE:HA	42:QK:36:MET:HB2	2.00	0.42
42:QK:262:TYR:CD2	42:QK:262:TYR:N	2.86	0.42
42:QK:396:ASP:O	42:QK:397:LEU:C	2.58	0.42
41:QL:316:VAL:O	41:QL:318:ARG:HG3	2.19	0.42
41:RB:330:MET:O	41:RB:334:GLN:N	2.46	0.42
41:RF:139:LEU:HD11	41:RF:192:LEU:HD22	2.00	0.42
41:RH:7:LEU:N	41:RH:134:GLN:O	2.35	0.42
42:RK:236:SER:O	42:RK:243:ARG:NH2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:SC:258:ASN:ND2	41:SD:179:VAL:HG22	2.33	0.42
42:SG:141:PHE:HD2	42:SG:172:TYR:HA	1.83	0.42
42:SG:336:LYS:HE3	42:SG:351:PHE:CD1	2.53	0.42
41:SH:31:ASP:OD1	41:SH:32:PRO:HD2	2.19	0.42
41:SJ:24:ILE:HG21	41:SJ:50:TYR:CE2	2.53	0.42
42:SK:272:TYR:O	42:SK:300:ASN:ND2	2.52	0.42
42:SM:259:LEU:HD21	42:SM:378:LEU:HB3	2.00	0.42
41:TD:137:HIS:ND1	41:TD:166:THR:OG1	2.51	0.42
41:TD:323:MET:O	41:TD:323:MET:HG2	2.19	0.42
42:TG:413:MET:HE3	42:TG:417:GLU:HB2	2.01	0.42
42:TI:124:LYS:HE3	42:TI:124:LYS:HB3	1.72	0.42
42:TK:393:HIS:HA	42:TK:396:ASP:HB2	1.99	0.42
41:TL:67:ASP:OD1	41:TL:68:LEU:N	2.49	0.42
41:TL:282:ARG:HD3	41:TL:283:ALA:N	2.34	0.42
42:UC:139:HIS:CE1	42:UC:141:PHE:HD1	2.37	0.42
42:UC:163:LYS:H	42:UC:163:LYS:HG3	1.63	0.42
42:UC:437:MET:H	42:UC:437:MET:HG3	1.64	0.42
41:UD:259:PRO:HA	42:UE:404:PHE:CD1	2.54	0.42
41:UF:107:THR:O	41:UF:110:ALA:N	2.38	0.42
41:UH:107:THR:O	41:UH:109:GLY:N	2.51	0.42
41:UJ:49:VAL:HG21	41:UJ:241:ARG:HG2	2.01	0.42
42:UK:269:LEU:HG	42:UK:303:VAL:HG21	1.99	0.42
41:UL:47:ILE:O	41:UL:51:TYR:HB2	2.19	0.42
41:UL:313:VAL:HG13	41:UL:367:PHE:CE1	2.54	0.42
42:UM:141:PHE:HB2	42:UM:172:TYR:HA	2.01	0.42
41:VD:193:VAL:HG22	41:VD:265:PHE:CE2	2.54	0.42
42:VE:36:MET:HG3	42:VE:61:HIS:NE2	2.34	0.42
41:VH:21:TRP:HA	41:VH:24:ILE:HG22	1.99	0.42
41:VJ:379:LYS:HG3	41:VJ:419:VAL:HG11	2.01	0.42
42:VK:223:THR:OG1	42:VK:224:TYR:N	2.49	0.42
42:VM:2:ARG:O	42:VM:242:LEU:HD21	2.19	0.42
41:WD:46:ARG:NH2	42:WE:72:PRO:O	2.52	0.42
42:WE:332:ILE:HD12	41:WF:175:VAL:HG21	2.00	0.42
42:WE:337:THR:OG1	42:WE:338:LYS:N	2.51	0.42
42:WE:425:MET:HE3	42:WE:425:MET:HB2	1.78	0.42
41:WF:331:LEU:O	41:WF:334:GLN:HG2	2.19	0.42
42:WK:359:PRO:HA	42:WK:360:PRO:HD3	1.94	0.42
41:WL:421:GLU:HA	41:WL:424:GLN:HG2	1.99	0.42
9:2D:575:ARG:NH1	41:IN:361:LEU:HB2	2.34	0.42
9:2D:716:ILE:HD11	41:IN:37:HIS:HD2	1.83	0.42
19:3L:349:PRO:HG2	42:CK:39:ASP:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:3N:223:ASP:OD1	20:3N:223:ASP:N	2.51	0.42
20:3O:126:PRO:HA	20:3O:129:GLU:HB2	2.02	0.42
20:3O:440:ILE:HD13	20:3O:451:VAL:HG12	2.01	0.42
20:3O:522:ASN:OD1	20:3O:525:LYS:NZ	2.49	0.42
20:3P:283:GLN:HG2	41:CJ:276:ARG:HD3	2.01	0.42
21:3V:212:LYS:HA	21:3V:212:LYS:HD2	1.76	0.42
24:4F:70:GLU:O	24:4F:74:GLN:HG2	2.19	0.42
24:4G:209:LEU:O	24:4G:213:LYS:N	2.51	0.42
25:4J:24:TYR:HD2	25:4J:37:MET:HE2	1.83	0.42
25:4J:38:HIS:HE1	42:IK:45:GLY:O	2.02	0.42
27:4O:113:PHE:HA	27:4O:131:ILE:HD11	2.01	0.42
27:4Q:220:ASN:O	27:4Q:224:LEU:HD23	2.20	0.42
27:4R:187:VAL:C	27:4R:189:TYR:H	2.21	0.42
27:4T:200:PHE:HB3	27:4T:203:LYS:HE2	2.01	0.42
31:5E:54:MET:SD	31:5E:55:GLU:N	2.92	0.42
32:5L:314:HIS:CE1	32:5M:201:SER:HG	2.38	0.42
32:5M:109:LEU:O	32:5M:113:GLU:HG2	2.19	0.42
32:5N:33:ARG:HA	32:5N:36:ARG:HD3	2.01	0.42
32:5O:150:LEU:HD22	32:5O:150:LEU:HA	1.90	0.42
33:5V:303:ASP:O	33:5V:307:LYS:HG2	2.20	0.42
33:5W:348:THR:HG23	33:5X:49:THR:HG23	2.01	0.42
33:5X:67:ARG:HA	33:5X:67:ARG:HD2	1.86	0.42
34:6A:110:SER:HA	34:6B:451:THR:HG23	2.00	0.42
34:6A:112:THR:O	34:6A:113:SER:C	2.58	0.42
34:6A:238:ASP:HA	34:6A:241:ILE:HD12	2.01	0.42
34:6D:408:ASN:O	34:6D:409:ILE:C	2.57	0.42
34:6F:213:ASP:H	34:6F:216:GLU:HG2	1.83	0.42
34:6G:184:ALA:O	34:6G:188:THR:HG23	2.18	0.42
34:6H:372:ILE:HG12	34:6H:448:LEU:HB3	2.01	0.42
34:6L:174:LEU:HA	34:6L:177:ILE:HG22	2.01	0.42
35:6U:307:ARG:HD2	35:6U:311:LEU:HG	2.01	0.42
35:6U:415:ASP:HA	35:6U:418:ILE:HG22	2.00	0.42
35:6W:258:ALA:O	35:6W:261:THR:N	2.52	0.42
37:7C:185:TYR:HE2	42:SI:120:ASP:N	2.17	0.42
41:AD:252:LYS:HA	41:AD:255:VAL:HG13	2.00	0.42
41:AJ:345:ILE:HG23	42:AK:398:MET:HE3	2.01	0.42
42:AK:30:ILE:CG2	42:AK:34:GLY:HA2	2.36	0.42
41:AL:275:SER:O	41:AL:279:GLN:HG2	2.19	0.42
41:BB:46:ARG:NH2	42:BC:76:ASP:OD2	2.52	0.42
42:BC:189:LEU:HD11	42:BC:418:PHE:HE1	1.83	0.42
42:BC:278:ALA:HA	42:BC:369:ALA:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BC:356:ASN:OD1	42:BC:357:TYR:N	2.49	0.42
41:BD:44:LEU:O	41:BD:45:GLU:C	2.56	0.42
41:BD:206:ALA:HB3	41:BD:300:MET:O	2.19	0.42
41:BD:296:ALA:HA	41:BD:299:MET:HG3	2.01	0.42
42:BE:348:PRO:HG2	41:BF:384:GLN:HA	2.01	0.42
42:BG:217:LEU:HD11	42:BG:275:VAL:HG22	2.01	0.42
41:BH:34:GLY:HA3	41:BH:58:LYS:HE3	2.01	0.42
41:BH:174:LYS:CD	41:BH:175:VAL:H	2.32	0.42
42:BI:259:LEU:O	42:BI:261:PRO:HD3	2.19	0.42
42:BI:313:MET:HE3	42:BI:313:MET:HB3	1.85	0.42
41:BJ:77:ARG:NE	41:BJ:82:GLY:O	2.52	0.42
41:BJ:207:LEU:HB3	41:BJ:225:LEU:HG	2.01	0.42
41:BJ:257:MET:HE1	41:BJ:368:ILE:HG12	2.01	0.42
41:BL:372:THR:HG22	41:BL:375:GLN:HE21	1.84	0.42
42:CG:391:LEU:HA	42:CG:394:LYS:HE2	2.01	0.42
42:CG:430:LYS:HE2	42:CG:430:LYS:HB2	1.71	0.42
42:CM:154:MET:HG2	42:CM:166:LYS:NZ	2.34	0.42
41:DB:252:LYS:HA	41:DB:255:VAL:HG12	2.01	0.42
42:DC:245:ASP:OD2	42:DC:246:GLY:N	2.53	0.42
42:DG:313:MET:HB3	42:DG:346:TRP:CZ2	2.55	0.42
41:DH:19:LYS:HG3	41:DH:227:HIS:CE1	2.55	0.42
41:DH:146:GLY:C	41:DH:148:GLY:N	2.72	0.42
41:DH:222:TYR:HD2	41:DH:222:TYR:HA	1.75	0.42
41:DH:245:GLN:O	41:DH:247:ASN:N	2.52	0.42
42:DI:254:GLU:HG2	41:DJ:99:ASN:ND2	2.35	0.42
41:DJ:35:THR:HA	41:EJ:281:TYR:CE2	2.55	0.42
41:DJ:51:TYR:CD2	41:DJ:59:TYR:HB3	2.54	0.42
41:DJ:406:MET:O	41:DJ:408:PHE:N	2.52	0.42
41:DL:80:PRO:O	41:DL:82:GLY:N	2.53	0.42
42:EC:1:MET:HB3	42:EC:130:THR:HB	2.00	0.42
41:ED:163:ILE:H	41:ED:163:ILE:HG13	1.58	0.42
41:ED:185:ALA:O	41:ED:381:ILE:HG21	2.19	0.42
41:ED:285:THR:O	41:ED:286:VAL:C	2.57	0.42
42:EE:273:ALA:CB	42:EE:375:VAL:HG22	2.48	0.42
42:EG:27:GLU:HB3	42:EG:28:HIS:H	1.67	0.42
42:EG:204:VAL:HG11	42:EG:231:ILE:HD11	2.02	0.42
41:EJ:173:PRO:HB3	41:EJ:380:ARG:HD2	2.02	0.42
42:EK:31:GLN:O	42:EK:32:PRO:C	2.57	0.42
42:EK:92:LEU:HD23	42:EK:92:LEU:HA	1.88	0.42
42:EM:207:GLU:O	42:EM:210:TYR:HB2	2.19	0.42
42:EM:312:TYR:N	42:EM:342:GLN:O	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:FC:23:LEU:O	42:FC:27:GLU:HG3	2.19	0.42
42:FC:169:PHE:HA	42:FC:202:PHE:O	2.20	0.42
42:FC:303:VAL:O	42:FC:305:CYS:N	2.52	0.42
41:FD:202:ILE:HD13	41:FD:268:PRO:HG3	2.01	0.42
41:FD:297:LYS:HA	41:FD:297:LYS:HD3	1.88	0.42
42:FE:288:VAL:HG21	42:FE:323:VAL:HG13	2.00	0.42
42:FE:341:ILE:HG21	42:FE:351:PHE:HZ	1.85	0.42
41:FF:28:HIS:ND1	41:FF:47:ILE:HG13	2.34	0.42
41:FF:30:ILE:HD12	41:FF:59:TYR:CD2	2.54	0.42
42:FG:121:ARG:HD2	42:FG:121:ARG:HA	1.92	0.42
41:FH:318:ARG:HB3	41:FH:366:THR:H	1.83	0.42
41:FJ:101:TRP:HB2	41:FJ:184:ASN:HB2	2.01	0.42
41:FJ:117:LEU:HB2	41:FJ:154:LYS:HZ2	1.84	0.42
41:FJ:140:GLY:HA3	41:FJ:181:GLU:HG3	2.00	0.42
41:FJ:330:MET:HE2	41:FJ:330:MET:HB3	1.96	0.42
42:FK:352:LYS:HA	41:FL:177:ASP:O	2.19	0.42
42:FK:384:ILE:HD11	42:FK:388:TRP:CD1	2.54	0.42
42:FK:437:MET:O	42:FK:439:SER:N	2.52	0.42
42:GC:2:ARG:NE	42:GC:242:LEU:O	2.52	0.42
42:GE:139:HIS:NE2	42:GE:150:THR:HG21	2.35	0.42
42:GE:269:LEU:HD11	42:GE:384:ILE:HD11	2.01	0.42
41:GF:207:LEU:HD13	41:GF:228:LEU:HD23	2.01	0.42
41:GF:323:MET:HG2	41:GF:353:VAL:HG21	2.01	0.42
42:GG:88:HIS:ND1	42:GG:89:PRO:HD2	2.34	0.42
42:GG:142:GLY:HA2	42:GG:183:GLU:HB2	2.00	0.42
41:GJ:66:VAL:HA	41:GJ:91:VAL:O	2.19	0.42
41:GJ:184:ASN:HD22	41:GJ:184:ASN:HA	1.61	0.42
42:GK:10:GLY:HA2	42:GK:145:THR:HG23	2.01	0.42
42:GK:56:THR:HA	42:HK:285:GLN:HB3	2.00	0.42
42:GK:344:VAL:HG11	42:GK:347:CYS:HB2	2.01	0.42
42:GM:17:GLY:O	42:GM:20:CYS:N	2.52	0.42
41:HB:11:GLN:N	43:HB:501:GDP:O2B	2.39	0.42
42:HC:209:ILE:HD12	42:HC:227:LEU:HB3	2.01	0.42
42:HC:315:CYS:SG	42:HC:350:GLY:O	2.75	0.42
41:HF:213:ARG:NE	41:HF:297:LYS:HD2	2.34	0.42
42:HG:56:THR:HG23	42:HG:57:GLY:N	2.34	0.42
42:HG:144:GLY:O	42:HG:148:GLY:N	2.51	0.42
42:HM:99:ALA:HB3	42:HM:144:GLY:HA3	2.01	0.42
42:HM:303:VAL:O	42:HM:305:CYS:N	2.52	0.42
41:IF:193:VAL:HA	41:IF:264:HIS:CE1	2.53	0.42
42:IG:225:THR:O	42:IG:229:ARG:HG3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:IH:25:SER:O	41:IH:29:GLY:N	2.52	0.42
41:IH:207:LEU:HA	41:IH:210:ILE:HG22	2.01	0.42
41:IH:207:LEU:HD23	41:IH:225:LEU:HB3	2.02	0.42
42:II:223:THR:OG1	42:II:224:TYR:N	2.52	0.42
42:II:289:ALA:O	42:II:293:ASN:ND2	2.52	0.42
42:IK:51:THR:HG21	42:IK:243:ARG:HD3	2.00	0.42
42:IK:278:ALA:HA	42:IK:369:ALA:HB2	2.01	0.42
41:IN:356:ILE:O	41:IN:356:ILE:HG13	2.18	0.42
41:IN:374:ILE:O	41:IN:375:GLN:C	2.57	0.42
42:JC:96:LYS:HD2	42:JC:96:LYS:HA	1.85	0.42
42:JE:346:TRP:CD1	41:JF:391:ARG:HD2	2.55	0.42
41:JH:77:ARG:NH1	41:JH:83:GLN:HA	2.31	0.42
42:JK:338:LYS:HE2	42:JK:338:LYS:HB2	1.45	0.42
41:KD:172:SER:OG	41:KD:175:VAL:O	2.32	0.42
42:KE:139:HIS:ND1	42:KE:146:GLY:O	2.52	0.42
41:KF:190:HIS:CD2	41:KF:414:ASN:HD21	2.37	0.42
41:KF:336:LYS:HE2	41:LF:125:GLU:OE1	2.18	0.42
41:KH:330:MET:HA	41:KH:333:VAL:HG12	2.02	0.42
42:KI:273:ALA:HB2	42:KI:295:CYS:SG	2.59	0.42
41:KJ:187:LEU:HD21	41:KJ:408:PHE:CE1	2.54	0.42
42:LG:205:ASP:O	42:LG:209:ILE:HG13	2.19	0.42
42:LG:242:LEU:HD11	42:LG:252:LEU:HD13	2.01	0.42
42:LG:269:LEU:HD11	42:LG:384:ILE:HD13	2.00	0.42
42:LI:36:MET:HB2	42:LI:61:HIS:NE2	2.34	0.42
41:LJ:262:ARG:HH21	41:LJ:421:GLU:CD	2.21	0.42
42:LK:70:LEU:HB2	42:LK:98:ASP:HA	2.00	0.42
41:LL:192:LEU:O	41:LL:196:THR:OG1	2.37	0.42
41:MD:389:PHE:CD2	41:MD:395:LEU:HD21	2.54	0.42
42:ME:104:ALA:HB2	42:ME:413:MET:SD	2.59	0.42
42:ME:228:ASN:ND2	45:ME:501:GTP:O6	2.49	0.42
42:ME:275:VAL:HG13	42:ME:368:LEU:HD21	2.01	0.42
41:MF:189:VAL:O	41:MF:193:VAL:HG23	2.20	0.42
41:MH:253:LEU:HD23	41:MH:368:ILE:HD12	2.00	0.42
41:MH:323:MET:HA	41:MH:326:VAL:HG12	2.00	0.42
41:MN:7:LEU:O	41:MN:8:GLN:C	2.58	0.42
41:MN:152:ILE:HG22	41:MN:195:ASN:HB3	2.01	0.42
41:ND:222:TYR:O	41:ND:223:GLY:C	2.57	0.42
41:ND:271:ALA:H	41:ND:272:PRO:HD2	1.84	0.42
42:NE:33:ASP:OD2	42:NE:34:GLY:N	2.52	0.42
41:NF:58:LYS:HE3	41:NF:58:LYS:HB2	1.42	0.42
41:NF:241:ARG:H	41:NF:241:ARG:HG2	1.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:NH:107:THR:HB	41:NH:108:GLU:H	1.62	0.42
41:NH:189:VAL:C	41:NH:191:GLN:H	2.23	0.42
41:NH:250:LEU:HD12	41:NH:250:LEU:HA	1.84	0.42
42:NI:164:LYS:H	42:NI:164:LYS:HG2	1.55	0.42
41:NJ:252:LYS:HD3	42:NK:98:ASP:OD1	2.18	0.42
42:NK:35:GLN:HE21	42:NK:35:GLN:HB3	1.65	0.42
41:OB:60:VAL:CG1	41:PB:281:TYR:HB3	2.40	0.42
41:OD:42:LEU:HD11	41:OD:243:PRO:HG3	2.02	0.42
41:OF:289:LEU:HD13	41:OF:363:MET:HG2	2.00	0.42
42:OG:384:ILE:HD12	42:OG:384:ILE:HA	1.89	0.42
41:OH:250:LEU:HD13	41:OH:250:LEU:HA	1.75	0.42
42:OK:261:PRO:HB3	42:OK:346:TRP:CH2	2.54	0.42
42:OK:268:PRO:HB3	42:OK:380:ASN:HB3	2.01	0.42
41:OL:131:GLN:HE22	41:OL:250:LEU:HB3	1.84	0.42
41:PB:190:HIS:HA	41:PB:414:ASN:ND2	2.34	0.42
41:PB:399:THR:O	41:PB:400:GLY:C	2.57	0.42
42:PC:31:GLN:HG3	42:PC:37:PRO:HD3	2.01	0.42
42:PC:60:LYS:HD2	42:PC:60:LYS:HA	1.47	0.42
42:PC:109:THR:HB	42:PC:110:ILE:H	1.59	0.42
42:PC:121:ARG:O	42:PC:122:ILE:C	2.58	0.42
42:PC:352:LYS:HB2	42:PC:352:LYS:HE3	1.84	0.42
41:PD:310:TYR:HA	41:PD:371:SER:HA	1.99	0.42
42:PE:140:SER:HB2	42:PE:171:ILE:HD11	2.01	0.42
42:PE:276:ILE:HD12	42:PE:276:ILE:HA	1.72	0.42
41:PF:13:GLY:O	41:PF:14:ASN:C	2.56	0.42
41:PF:60:VAL:HG13	41:QF:281:TYR:CD1	2.53	0.42
42:PG:26:LEU:HD12	42:PG:363:VAL:HG12	2.01	0.42
42:PG:110:ILE:O	42:PG:113:GLU:HG2	2.19	0.42
42:PG:238:ILE:HA	42:PG:238:ILE:HD13	1.84	0.42
42:PG:267:PHE:HB2	42:PG:432:TYR:OH	2.19	0.42
41:PH:25:SER:O	41:PH:30:ILE:N	2.51	0.42
41:PH:167:PHE:CE1	41:PH:233:MET:HG3	2.55	0.42
41:PH:226:ASN:O	41:PH:229:VAL:N	2.52	0.42
41:PH:249:ASP:H	41:PH:252:LYS:HZ2	1.66	0.42
42:PI:128:GLN:HE21	42:PI:128:GLN:HB2	1.53	0.42
42:PI:214:ARG:O	42:PI:216:ASN:N	2.44	0.42
42:PK:280:LYS:H	42:PK:280:LYS:HG2	1.42	0.42
42:PK:385:ALA:HB2	42:PK:432:TYR:CD2	2.54	0.42
41:PL:345:ILE:H	41:PL:345:ILE:HG12	1.73	0.42
41:PL:378:PHE:O	41:PL:379:LYS:C	2.56	0.42
41:QB:284:LEU:HD12	41:QB:284:LEU:HA	1.90	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:QC:306:ASP:HB3	42:QC:309:HIS:CG	2.54	0.42
41:QD:256:ASN:OD1	42:QE:181:VAL:HG22	2.19	0.42
42:QG:31:GLN:HE21	42:QG:35:GLN:HB2	1.84	0.42
41:QH:117:LEU:HA	41:QH:117:LEU:HD12	1.74	0.42
42:QI:320:ARG:HE	42:QI:320:ARG:HB2	1.54	0.42
41:QJ:73:MET:HG3	41:QJ:92:PHE:HB3	2.01	0.42
41:QJ:173:PRO:HB2	41:QJ:174:LYS:H	1.53	0.42
41:QL:27:GLU:HB3	41:QL:242:PHE:HE2	1.84	0.42
41:RB:378:PHE:HA	41:RB:381:ILE:HG12	2.01	0.42
42:RC:96:LYS:HA	42:RC:96:LYS:HD3	1.85	0.42
42:RC:154:MET:H	42:RC:154:MET:HG2	1.61	0.42
41:RF:323:MET:HA	41:RF:326:VAL:HG23	2.00	0.42
41:RJ:362:LYS:HB2	41:RJ:363:MET:H	1.61	0.42
42:SC:168:GLU:OE2	42:SC:170:SER:HB2	2.19	0.42
42:SE:48:SER:O	42:SE:50:ASN:N	2.52	0.42
41:SF:333:VAL:O	41:SF:334:GLN:C	2.57	0.42
41:SF:364:SER:OG	41:SF:365:ALA:N	2.53	0.42
41:SH:198:GLU:HA	41:SH:264:HIS:HB2	2.01	0.42
42:SI:109:THR:OG1	42:SI:110:ILE:N	2.52	0.42
42:SI:343:PHE:CE1	42:SI:351:PHE:HE2	2.38	0.42
41:SJ:210:ILE:HG22	41:SJ:213:ARG:NH1	2.34	0.42
41:SJ:255:VAL:HG23	42:SK:407:TRP:CG	2.55	0.42
41:SJ:346:PRO:HD2	42:SK:398:MET:HE2	2.00	0.42
42:SK:4:CYS:SG	42:SK:51:THR:OG1	2.64	0.42
42:SK:276:ILE:HB	42:SK:280:LYS:HG3	2.01	0.42
42:SK:317:LEU:N	42:SK:352:LYS:O	2.52	0.42
41:SL:243:PRO:HB3	42:SM:73:THR:CG2	2.49	0.42
42:TC:338:LYS:HD3	42:TC:338:LYS:HA	1.81	0.42
41:TD:271:ALA:O	41:TD:292:GLN:HG2	2.19	0.42
42:TE:88:HIS:HA	42:UE:283:HIS:NE2	2.34	0.42
42:TE:212:ILE:HD12	42:TE:300:ASN:HA	2.00	0.42
42:TG:147:SER:OG	42:TG:190:THR:HG21	2.19	0.42
42:TG:382:THR:HB	42:TG:432:TYR:CE1	2.52	0.42
41:TL:97:ALA:O	41:TL:100:ASN:N	2.44	0.42
41:TL:162:ARG:HE	41:TL:251:ARG:NH2	2.18	0.42
42:TM:55:GLU:OE2	42:TM:57:GLY:N	2.52	0.42
42:TM:208:ALA:O	42:TM:212:ILE:HG12	2.19	0.42
41:UF:337:ASN:HB2	41:UF:340:TYR:HD2	1.83	0.42
41:UJ:131:GLN:NE2	41:UJ:240:LEU:HD21	2.32	0.42
41:UJ:396:HIS:HA	41:UJ:399:THR:HG22	2.00	0.42
41:UL:20:PHE:O	41:UL:24:ILE:HG12	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:UM:265:ILE:O	42:UM:380:ASN:ND2	2.42	0.42
42:VC:66:VAL:HG12	42:VC:68:VAL:HG23	2.01	0.42
41:VD:222:TYR:HD1	41:VD:225:LEU:HD12	1.83	0.42
41:VH:34:GLY:HA3	41:VH:58:LYS:HE2	2.01	0.42
41:VH:117:LEU:HA	41:VH:120:VAL:HG12	2.00	0.42
42:VM:174:ALA:HB1	42:VM:207:GLU:CG	2.49	0.42
42:WC:165:SER:HB2	42:WC:256:GLN:HE22	1.84	0.42
42:WC:319:TYR:N	42:WC:354:GLY:O	2.52	0.42
42:WE:204:VAL:HG13	42:WE:302:MET:HB3	2.00	0.42
42:WG:7:VAL:HG11	42:WG:153:LEU:HD21	2.00	0.42
42:WG:138:PHE:HZ	42:WG:235:VAL:HG11	1.83	0.42
41:WH:5:VAL:HG22	41:WH:62:ARG:HD2	2.01	0.42
41:WL:310:TYR:N	41:WL:340:TYR:O	2.51	0.42
42:WM:223:THR:OG1	42:WM:224:TYR:N	2.53	0.42
5:1P:78:ARG:NH2	42:LK:163:LYS:HD3	2.34	0.42
8:2B:108:TYR:CZ	42:AK:419:SER:HB3	2.54	0.42
10:2F:164:ASP:HB3	42:VE:117:LEU:HD21	2.01	0.42
19:3L:164:HIS:CD2	19:3L:166:LYS:HG3	2.54	0.42
20:3N:107:GLN:O	20:3N:109:SER:N	2.52	0.42
20:3O:647:LEU:HA	20:3O:647:LEU:HD12	1.81	0.42
20:3P:159:PHE:O	20:3P:163:PHE:N	2.43	0.42
22:3X:106:ASN:HA	42:BC:219:ILE:HD12	2.00	0.42
25:4J:242:CYS:HB2	25:4J:368:VAL:HG22	2.00	0.42
25:4J:274:MET:HA	25:4J:309:VAL:HA	2.00	0.42
26:4L:288:GLU:HA	26:4L:291:PHE:HB3	2.02	0.42
26:4M:80:LEU:O	26:4M:84:ARG:HG2	2.18	0.42
27:4R:194:LEU:N	27:4R:195:PRO:CD	2.79	0.42
27:4R:210:GLY:O	27:4R:211:ILE:C	2.58	0.42
27:4R:217:LYS:O	27:4R:218:ARG:C	2.57	0.42
28:4W:62:ALA:HA	28:4W:65:SER:HB2	2.00	0.42
31:5D:119:PRO:HG3	31:5D:142:ILE:HD13	2.02	0.42
32:5N:340:GLU:OE1	32:5O:55:SER:HB2	2.19	0.42
32:5O:49:GLU:HG3	32:5O:50:LYS:N	2.33	0.42
32:5O:124:GLY:O	32:5O:125:ILE:C	2.55	0.42
33:5R:116:CYS:SG	33:5R:117:LEU:N	2.92	0.42
33:5S:51:ASN:HA	33:5S:54:ILE:HG22	2.01	0.42
33:5S:233:MET:HE2	33:5S:233:MET:HB2	1.86	0.42
33:5W:311:LEU:HD13	33:5W:311:LEU:HA	1.91	0.42
33:5W:332:ASP:N	33:5W:332:ASP:OD1	2.52	0.42
33:5X:396:LYS:HD3	34:6M:348:THR:HG21	2.01	0.42
34:6B:150:VAL:HG22	34:6B:268:ASP:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:6B:183:ARG:HA	34:6B:183:ARG:HD2	1.82	0.42
34:6H:248:ARG:HA	34:6H:248:ARG:HD2	1.84	0.42
35:6T:151:ILE:HG13	35:6T:437:TYR:HE1	1.84	0.42
35:6U:304:PHE:O	35:6U:308:CYS:N	2.36	0.42
35:6V:171:CYS:O	35:6V:172:VAL:C	2.58	0.42
35:6W:121:VAL:HG13	35:6W:208:LYS:HE2	2.01	0.42
35:6W:246:LYS:HB2	35:6W:247:PHE:H	1.60	0.42
36:6Y:51:VAL:HG23	36:6Y:86:GLN:HB2	1.99	0.42
36:6Z:51:VAL:HB	36:6Z:82:LYS:NZ	2.31	0.42
37:7E:190:VAL:HB	42:OI:214:ARG:CZ	2.50	0.42
41:AD:58:LYS:HE2	41:AD:58:LYS:HB3	1.83	0.42
41:AH:152:ILE:O	41:AH:155:ILE:HG12	2.19	0.42
41:AJ:317:PHE:HB2	41:AJ:353:VAL:HG22	2.01	0.42
42:AK:9:VAL:HG13	42:AK:139:HIS:HB3	2.01	0.42
41:AL:85:PHE:C	41:BL:281:TYR:HE2	2.22	0.42
41:AL:194:GLU:H	41:AL:194:GLU:HG2	1.45	0.42
41:BB:294:PHE:CE1	41:BB:313:VAL:HG11	2.54	0.42
42:BG:326:LYS:CE	41:BH:220:PRO:HD2	2.49	0.42
41:BH:40:SER:HB3	41:BH:43:GLN:HG3	2.01	0.42
42:CC:63:PRO:CG	42:CC:87:PHE:HA	2.48	0.42
42:CC:399:TYR:O	42:CC:400:ALA:C	2.57	0.42
42:CC:422:ARG:HA	42:CC:422:ARG:HD2	1.66	0.42
42:CE:9:VAL:HG21	42:CE:150:THR:HB	2.01	0.42
41:CF:191:GLN:HE21	41:CF:191:GLN:HB2	1.51	0.42
42:CI:127:ASP:OD1	42:CI:128:GLN:N	2.52	0.42
41:CJ:185:ALA:O	41:CJ:186:THR:C	2.58	0.42
42:CK:319:TYR:HB3	42:CK:323:VAL:HG11	2.01	0.42
41:CL:358:PRO:HG3	41:CL:364:SER:HB3	2.01	0.42
42:DC:352:LYS:HE2	41:DD:99:ASN:HD21	1.84	0.42
41:DD:257:MET:HG3	41:DD:257:MET:O	2.18	0.42
41:DF:192:LEU:O	41:DF:196:THR:OG1	2.32	0.42
41:DH:131:GLN:HB3	41:DH:250:LEU:HD12	2.01	0.42
41:DH:173:PRO:O	41:DH:174:LYS:HB3	2.19	0.42
41:DH:233:MET:HG3	41:DH:234:SER:N	2.35	0.42
41:DH:355:ASP:O	41:DH:356:ILE:C	2.58	0.42
41:DJ:35:THR:N	41:EJ:281:TYR:CE2	2.87	0.42
41:DJ:150:LEU:HD23	41:DJ:150:LEU:HA	1.70	0.42
42:DK:119:LEU:HD12	42:DK:119:LEU:HA	1.82	0.42
42:DK:289:ALA:O	42:DK:293:ASN:HB2	2.19	0.42
42:DM:138:PHE:CD1	42:DM:169:PHE:HB2	2.54	0.42
41:ED:128:ASP:O	41:ED:129:CYS:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:ED:309:ARG:HG2	41:ED:372:THR:HG21	2.00	0.42
41:ED:375:GLN:O	41:ED:377:LEU:N	2.53	0.42
42:EE:155:GLU:HA	42:EE:197:HIS:CD2	2.54	0.42
42:EE:410:GLY:O	42:EE:411:GLU:C	2.57	0.42
42:EG:110:ILE:HD13	42:EG:110:ILE:HA	1.72	0.42
42:EG:285:GLN:O	42:EG:287:SER:N	2.52	0.42
41:EJ:178:THR:O	41:EJ:181:GLU:HG3	2.20	0.42
41:EJ:330:MET:HB3	41:EJ:349:VAL:HG11	2.00	0.42
42:EK:30:ILE:HG23	42:EK:61:HIS:CD2	2.53	0.42
42:EK:183:GLU:H	42:EK:183:GLU:HG3	1.49	0.42
42:EK:266:HIS:CD2	42:EK:266:HIS:H	2.36	0.42
41:EL:42:LEU:HD22	41:EL:356:ILE:HD11	1.99	0.42
41:EL:146:GLY:O	41:EL:149:THR:OG1	2.37	0.42
41:EL:423:GLN:HG2	41:EL:424:GLN:N	2.33	0.42
41:FD:247:ASN:CG	42:FE:11:GLN:HE22	2.22	0.42
41:FD:304:ASP:HB3	41:FD:307:HIS:CD2	2.55	0.42
42:FE:201:ALA:HB3	42:FE:267:PHE:CD2	2.54	0.42
42:FE:307:PRO:HB2	42:FE:312:TYR:CE1	2.51	0.42
42:FE:388:TRP:HB3	42:FE:425:MET:CE	2.49	0.42
41:FH:203:ASP:OD2	41:FH:302:ALA:HA	2.18	0.42
42:FI:182:VAL:O	42:FI:186:ASN:ND2	2.52	0.42
41:FJ:149:THR:HA	41:FJ:152:ILE:HG12	2.00	0.42
41:FJ:171:PRO:HB3	41:FJ:181:GLU:HG2	2.02	0.42
41:FL:153:SER:HA	41:FL:156:ARG:CZ	2.49	0.42
41:FL:251:ARG:O	41:FL:252:LYS:C	2.58	0.42
42:FM:358:GLN:NE2	42:FM:359:PRO:O	2.52	0.42
41:GD:385:PHE:CZ	41:GD:408:PHE:HB3	2.52	0.42
42:GG:168:GLU:OE2	42:GG:194:THR:OG1	2.33	0.42
42:GG:183:GLU:HA	42:GG:186:ASN:HD22	1.84	0.42
41:GH:189:VAL:HA	41:GH:192:LEU:HB2	2.00	0.42
42:GI:200:CYS:HA	42:GI:266:HIS:HB2	2.01	0.42
42:GI:306:ASP:N	42:GI:306:ASP:OD2	2.48	0.42
41:GJ:232:THR:HA	41:GJ:366:THR:HG21	2.00	0.42
41:GJ:274:THR:HB	41:GJ:282:ARG:HE	1.83	0.42
42:GK:24:TYR:HE1	42:GK:236:SER:HB2	1.84	0.42
42:GK:238:ILE:HA	42:GK:318:LEU:HD13	2.00	0.42
42:GK:348:PRO:HG2	41:GL:384:GLN:HG3	2.01	0.42
42:GM:60:LYS:O	42:GM:61:HIS:C	2.56	0.42
42:GM:384:ILE:HD13	42:GM:384:ILE:HA	1.68	0.42
41:HB:203:ASP:HB3	41:HB:302:ALA:H	1.84	0.42
41:HB:304:ASP:HA	41:HB:305:PRO:HD3	1.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:HC:73:THR:OG1	42:HC:74:VAL:N	2.52	0.42
42:HC:99:ALA:HB3	42:HC:144:GLY:HA3	2.01	0.42
41:HD:309:ARG:O	41:HD:310:TYR:C	2.57	0.42
41:HF:324:LYS:CB	42:HG:222:PRO:HD2	2.50	0.42
42:HG:280:LYS:HB3	42:HG:280:LYS:HE2	1.78	0.42
42:HG:401:LYS:O	42:HG:403:ALA:N	2.52	0.42
41:HH:143:THR:N	43:HH:501:GDP:O3B	2.53	0.42
41:HH:235:GLY:O	41:HH:238:THR:HG22	2.20	0.42
41:HJ:33:THR:OG1	41:HJ:34:GLY:N	2.51	0.42
41:HL:210:ILE:HG23	41:HL:210:ILE:HD12	1.74	0.42
41:ID:14:ASN:O	41:ID:18:ALA:N	2.49	0.42
41:ID:54:ALA:HA	42:JC:285:GLN:HB2	2.01	0.42
42:IG:88:HIS:CE1	41:JF:278:SER:HB2	2.54	0.42
42:II:286:LEU:HA	42:II:286:LEU:HD23	1.83	0.42
41:IJ:60:VAL:HG12	42:JI:285:GLN:NE2	2.34	0.42
41:IJ:344:TRP:CZ3	42:IK:401:LYS:HD2	2.54	0.42
41:IL:7:LEU:HD23	41:IL:151:LEU:HD23	2.01	0.42
42:IM:288:VAL:HA	42:IM:291:ILE:HG22	2.00	0.42
41:IN:53:GLU:HG3	41:IN:59:TYR:CE2	2.54	0.42
41:IN:61:PRO:HD3	41:IN:84:ILE:HG12	2.01	0.42
41:IN:354:CYS:SG	41:IN:355:ASP:N	2.92	0.42
41:JD:100:ASN:HD22	41:JD:103:LYS:NZ	2.17	0.42
41:JD:289:LEU:HD21	41:JD:365:ALA:HB3	2.00	0.42
41:JF:406:MET:HG2	41:ND:306:ARG:HB3	2.02	0.42
41:JH:20:PHE:CZ	41:JH:24:ILE:HG13	2.54	0.42
42:JI:21:TRP:CZ3	42:JI:63:PRO:HB3	2.54	0.42
42:JK:339:ARG:HH22	42:JK:342:GLN:HA	1.84	0.42
42:KC:139:HIS:ND1	42:KC:146:GLY:O	2.52	0.42
42:KI:182:VAL:HG23	42:KI:186:ASN:HD21	1.84	0.42
42:KI:262:TYR:OH	41:KJ:391:ARG:O	2.36	0.42
42:KK:185:TYR:O	42:KK:189:LEU:HD13	2.20	0.42
42:KM:122:ILE:HD13	42:KM:157:LEU:HD21	2.00	0.42
42:LG:38:SER:OG	42:LG:38:SER:O	2.36	0.42
41:LH:200:TYR:HD2	41:LH:268:PRO:HG3	1.85	0.42
42:LM:345:ASP:OD1	42:LM:346:TRP:N	2.52	0.42
42:MC:202:PHE:HE1	42:MC:378:LEU:HD22	1.84	0.42
42:MC:328:VAL:HG21	42:MC:355:ILE:HD11	2.02	0.42
41:MD:303:CYS:O	41:MD:304:ASP:C	2.57	0.42
41:MF:7:LEU:HG	41:MF:64:VAL:HG13	2.01	0.42
41:MF:336:LYS:HE3	41:MF:336:LYS:HB3	1.32	0.42
41:MH:154:LYS:HE2	41:MH:154:LYS:HB2	1.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:MK:296:PHE:CE2	42:MK:335:ILE:HD13	2.54	0.42
42:MK:309:HIS:NE2	42:NI:282:TYR:HB3	2.33	0.42
41:ML:135:LEU:HD23	41:ML:152:ILE:HD11	2.00	0.42
41:ML:215:LEU:HD21	41:ML:273:LEU:HD22	2.00	0.42
41:ML:317:PHE:HB3	41:ML:321:MET:CE	2.48	0.42
42:MM:101:ASN:N	45:MM:501:GTP:O2G	2.39	0.42
42:MM:163:LYS:HA	42:MM:163:LYS:HD3	1.80	0.42
41:NB:405:GLU:H	41:NB:405:GLU:HG2	1.52	0.42
41:ND:257:MET:HE3	41:ND:257:MET:HB3	1.86	0.42
41:NH:309:ARG:HG2	41:NH:339:SER:O	2.20	0.42
41:NH:309:ARG:H	41:NH:372:THR:HG23	1.83	0.42
42:NI:69:ASP:OD2	42:NI:71:GLU:HG2	2.20	0.42
42:NI:223:THR:OG1	42:NI:224:TYR:N	2.52	0.42
41:NL:62:ARG:HG3	41:NL:123:GLU:HG2	2.01	0.42
42:OA:324:VAL:O	42:OA:326:LYS:N	2.52	0.42
42:OA:400:ALA:O	42:OA:402:ARG:NH1	2.52	0.42
42:OC:67:PHE:HB3	42:OC:75:ILE:HD12	2.00	0.42
42:OE:55:GLU:OE2	42:OE:61:HIS:NE2	2.52	0.42
42:OE:81:GLY:O	42:OE:84:ARG:HB2	2.18	0.42
42:OE:137:ILE:HB	42:OE:168:GLU:HB3	2.01	0.42
42:OE:143:GLY:O	42:OE:186:ASN:ND2	2.53	0.42
41:OL:65:LEU:H	41:OL:89:ASN:HB3	1.83	0.42
41:OL:230:SER:HA	41:OL:233:MET:HB2	2.00	0.42
42:PA:273:ALA:HB3	42:PA:274:PRO:HD3	2.01	0.42
42:PA:326:LYS:HA	42:PA:326:LYS:HD3	1.50	0.42
42:PC:72:PRO:O	42:PC:73:THR:C	2.58	0.42
41:PD:60:VAL:HG21	41:QD:281:TYR:HA	2.02	0.42
41:PF:46:ARG:HB3	41:PF:241:ARG:HA	2.01	0.42
41:PF:242:PHE:HA	41:PF:243:PRO:HD3	1.95	0.42
41:PF:322:SER:HB3	41:PF:325:GLU:HB3	2.01	0.42
42:PG:22:GLU:O	42:PG:23:LEU:C	2.56	0.42
42:PG:54:SER:OG	42:PG:55:GLU:N	2.52	0.42
42:PG:408:TYR:O	42:PG:410:GLY:N	2.52	0.42
41:PH:163:ILE:HG13	41:PH:164:MET:N	2.34	0.42
41:PH:385:PHE:O	41:PH:388:MET:N	2.46	0.42
41:PH:421:GLU:O	41:PH:424:GLN:HB2	2.19	0.42
42:PI:87:PHE:O	42:PI:88:HIS:C	2.57	0.42
42:PI:265:ILE:HD12	42:PI:435:VAL:HG21	2.00	0.42
41:PJ:67:ASP:O	41:PJ:93:GLY:N	2.45	0.42
41:PJ:151:LEU:O	41:PJ:155:ILE:HG13	2.20	0.42
41:PJ:420:SER:O	41:PJ:421:GLU:C	2.56	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:PK:155:GLU:HB3	42:PK:197:HIS:CE1	2.54	0.42
42:PK:183:GLU:O	42:PK:184:PRO:C	2.58	0.42
41:PL:217:LEU:HB3	41:PL:220:PRO:HG3	2.01	0.42
41:QD:39:ASP:OD1	41:QD:40:SER:N	2.50	0.42
41:QD:212:PHE:O	41:QD:216:LYS:HD2	2.19	0.42
42:QE:251:ASP:OD2	42:QE:253:THR:OG1	2.29	0.42
42:QG:105:ARG:O	42:QG:109:THR:HB	2.19	0.42
41:QH:142:GLY:O	41:QH:144:GLY:N	2.52	0.42
42:QI:134:GLY:HA2	42:QI:164:LYS:HD3	2.01	0.42
41:QJ:28:HIS:CG	41:QJ:47:ILE:HG12	2.54	0.42
41:QL:209:ASP:O	41:QL:210:ILE:C	2.57	0.42
41:RB:190:HIS:O	41:RB:193:VAL:HG22	2.19	0.42
42:RC:272:TYR:HD1	42:RC:376:CYS:HB3	1.85	0.42
42:RC:429:GLU:OE2	42:RC:432:TYR:OH	2.22	0.42
41:RD:346:PRO:CG	42:RE:394:LYS:HD2	2.49	0.42
42:RI:2:ARG:N	42:RI:3:GLU:OE1	2.52	0.42
42:RI:311:LYS:N	42:RI:382:THR:OG1	2.49	0.42
42:RI:317:LEU:N	42:RI:352:LYS:O	2.42	0.42
41:RJ:101:TRP:CE3	41:RJ:187:LEU:HB3	2.54	0.42
42:RK:377:MET:HE2	42:RK:379:SER:HB3	2.02	0.42
41:SF:16:ILE:HG23	43:SF:501:GDP:HN1	1.84	0.42
42:SI:5:ILE:HG13	42:SI:135:PHE:CE1	2.54	0.42
41:SJ:152:ILE:HD12	41:SJ:152:ILE:HA	1.89	0.42
41:SL:322:SER:HB3	42:SM:221:ARG:NH2	2.34	0.42
42:TE:21:TRP:CE3	42:TE:24:TYR:HD2	2.36	0.42
41:TF:161:ASP:C	41:TF:162:ARG:HD2	2.39	0.42
42:TI:414:GLU:O	42:TI:415:GLU:C	2.58	0.42
41:TJ:69:GLU:HA	41:TJ:70:PRO:HD3	1.86	0.42
42:TK:97:GLU:OE1	42:TK:105:ARG:NH2	2.52	0.42
42:TK:110:ILE:H	42:TK:110:ILE:HG12	1.73	0.42
42:TK:175:PRO:HG2	42:TK:207:GLU:OE2	2.18	0.42
42:TM:32:PRO:HA	42:TM:86:LEU:HD12	2.00	0.42
42:TM:84:ARG:HA	42:TM:87:PHE:CZ	2.53	0.42
42:TM:315:CYS:HB3	42:TM:351:PHE:HA	2.01	0.42
42:UC:118:VAL:O	42:UC:119:LEU:C	2.58	0.42
42:UC:122:ILE:HA	42:UC:125:LEU:HD12	2.01	0.42
42:UE:128:GLN:OE1	42:UE:128:GLN:N	2.52	0.42
41:UF:316:VAL:HA	41:UF:352:ALA:HB3	2.01	0.42
42:UG:251:ASP:OD2	42:UG:253:THR:HG22	2.19	0.42
42:UI:269:LEU:HD21	42:UI:301:GLN:NE2	2.33	0.42
42:UI:422:ARG:HA	42:UI:422:ARG:HD2	1.86	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:UK:116:ASP:O	42:UK:117:LEU:C	2.58	0.42
41:UL:10:GLY:HA2	41:UL:143:THR:OG1	2.19	0.42
41:UL:242:PHE:HD1	41:UL:356:ILE:HB	1.85	0.42
41:UL:372:THR:HA	41:UL:422:TYR:HD2	1.84	0.42
42:UM:408:TYR:O	42:UM:413:MET:HB3	2.18	0.42
41:VF:62:ARG:NH1	41:VF:127:CYS:SG	2.92	0.42
42:VK:209:ILE:H	42:VK:209:ILE:HG12	1.43	0.42
41:VL:311:LEU:HD23	41:VL:342:VAL:HG11	2.00	0.42
42:WC:228:ASN:OD1	45:WC:501:GTP:N1	2.50	0.42
42:WC:316:CYS:SG	42:WC:378:LEU:HB2	2.59	0.42
42:WE:3:GLU:H	42:WE:3:GLU:HG2	1.56	0.42
41:WH:385:PHE:HZ	41:WH:408:PHE:HB3	1.84	0.42
42:WI:13:GLY:O	42:WI:14:VAL:C	2.57	0.42
42:WI:261:PRO:HA	41:WJ:394:PHE:CD1	2.54	0.42
41:WN:289:LEU:HD11	41:WN:363:MET:HG3	2.01	0.42
22:3X:255:TYR:HA	22:3X:258:LEU:HD12	2.00	0.42
22:4C:28:ARG:HD2	42:CG:221:ARG:HH12	1.84	0.42
22:4C:87:SER:HB2	42:AG:84:ARG:NH2	2.31	0.42
24:4F:61:GLN:HA	24:4F:61:GLN:HE21	1.84	0.42
27:4R:109:LEU:HB3	27:4R:110:PRO:HD3	2.01	0.42
31:5D:53:TYR:HA	31:5D:57:HIS:HD2	1.84	0.42
32:5N:212:VAL:HG13	32:5N:216:ASP:HB3	2.01	0.42
34:6A:187:GLU:H	34:6A:187:GLU:HG2	1.64	0.42
34:6C:455:LEU:HD12	34:6C:455:LEU:HA	1.74	0.42
34:6D:452:LYS:HB3	34:6D:452:LYS:HE3	1.70	0.42
34:6F:386:ILE:HG23	34:6F:431:ILE:HD11	2.00	0.42
34:6L:267:ILE:HG21	34:6M:403:ARG:HA	2.00	0.42
35:6Q:64:TYR:OH	35:6R:314:ALA:O	2.37	0.42
35:6S:414:LYS:HB2	35:6S:414:LYS:HE2	1.85	0.42
35:6V:61:TYR:HA	35:6V:64:TYR:HB2	2.01	0.42
35:6V:170:ASP:CB	35:6V:307:ARG:HD3	2.50	0.42
37:7C:158:GLN:HA	37:7C:159:PRO:HD3	1.89	0.42
39:7L:26:SER:HB3	39:7L:29:SER:HB2	2.01	0.42
41:AH:2:ARG:O	41:AH:49:VAL:HG23	2.20	0.42
41:BB:118:ASP:HA	41:BB:121:ARG:HG2	2.01	0.42
41:BB:139:LEU:HB3	41:BB:185:ALA:HA	2.02	0.42
42:BC:7:VAL:HG23	42:BC:66:VAL:HB	2.00	0.42
41:BD:260:PHE:HE2	41:BD:344:TRP:CH2	2.37	0.42
42:BG:19:ALA:HA	42:BG:22:GLU:OE1	2.19	0.42
41:BH:252:LYS:HG2	42:BI:100:ALA:HA	2.00	0.42
42:CC:261:PRO:HB2	42:CC:262:TYR:HD1	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CC:383:ALA:C	42:CC:385:ALA:N	2.73	0.42
41:CD:105:HIS:HA	41:CD:150:LEU:HD22	2.02	0.42
41:CD:252:LYS:HA	41:CD:255:VAL:HG22	2.01	0.42
42:CE:245:ASP:OD1	42:CE:245:ASP:N	2.51	0.42
41:CF:44:LEU:HA	41:CF:47:ILE:HD13	2.01	0.42
42:CG:87:PHE:HB3	42:CG:92:LEU:HD21	2.02	0.42
42:CG:107:HIS:CD2	42:CG:151:SER:HB3	2.55	0.42
42:CG:195:LEU:HD11	42:CG:428:LEU:HD22	2.00	0.42
41:CJ:150:LEU:HD23	41:CJ:150:LEU:HA	1.74	0.42
42:CK:132:LEU:HB3	42:CK:164:LYS:HZ1	1.83	0.42
41:CL:4:ILE:HD12	41:CL:134:GLN:HG2	2.00	0.42
41:CL:152:ILE:HG23	41:CL:164:MET:HG2	2.01	0.42
41:DB:324:LYS:HA	41:DB:324:LYS:HD2	1.76	0.42
41:DD:28:HIS:NE2	41:DD:241:ARG:HD2	2.35	0.42
42:DE:25:CYS:HA	42:DE:30:ILE:HB	2.00	0.42
42:DE:271:THR:OG1	42:DE:301:GLN:OE1	2.37	0.42
42:DG:69:ASP:HA	42:DG:145:THR:HG21	2.01	0.42
41:DH:240:LEU:HD21	41:DH:249:ASP:CA	2.48	0.42
41:DH:322:SER:HB2	42:DI:221:ARG:O	2.18	0.42
42:DI:390:ARG:O	42:DI:394:LYS:HG2	2.20	0.42
41:DJ:73:MET:SD	41:DJ:90:PHE:HB2	2.59	0.42
41:DJ:331:LEU:C	41:DJ:333:VAL:H	2.22	0.42
42:DK:24:TYR:HB3	42:DK:53:PHE:CE1	2.55	0.42
42:DK:56:THR:HG23	42:EK:285:GLN:CG	2.50	0.42
42:DK:259:LEU:HA	42:DK:259:LEU:HD23	1.73	0.42
41:DL:327:ASP:HB3	42:DM:177:VAL:HG21	2.01	0.42
42:EC:319:TYR:N	42:EC:354:GLY:O	2.46	0.42
42:EE:191:THR:HG21	42:EE:388:TRP:HZ3	1.84	0.42
42:EE:273:ALA:C	42:EE:275:VAL:H	2.23	0.42
42:EK:131:GLY:O	42:EK:132:LEU:HB2	2.19	0.42
42:EK:236:SER:O	42:EK:240:ALA:N	2.50	0.42
42:EK:324:VAL:O	42:EK:325:PRO:C	2.58	0.42
42:EK:343:PHE:CZ	42:EK:351:PHE:HE1	2.37	0.42
41:EL:103:LYS:HG2	41:EL:401:GLU:HG2	2.01	0.42
41:EL:256:ASN:OD1	42:EM:182:VAL:HB	2.19	0.42
41:FD:226:ASN:ND2	43:FD:501:GDP:HN1	2.17	0.42
41:FD:362:LYS:HE3	41:FD:362:LYS:HB2	1.60	0.42
42:FE:176:GLN:HB3	42:FE:207:GLU:OE1	2.19	0.42
42:FE:207:GLU:OE2	42:FE:304:LYS:HG3	2.18	0.42
41:FH:377:LEU:HB3	41:FH:380:ARG:HH21	1.84	0.42
42:FK:70:LEU:HD22	42:FK:99:ALA:HB2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:FK:163:LYS:HZ3	42:FK:163:LYS:HG2	1.65	0.42
42:GC:297:GLU:HG3	42:GC:299:ALA:H	1.85	0.42
41:GD:345:ILE:O	41:GD:346:PRO:C	2.58	0.42
41:GJ:85:PHE:HB3	41:GJ:90:PHE:HE1	1.83	0.42
42:GK:142:GLY:HA3	45:GK:501:GTP:H4'	2.01	0.42
42:GM:319:TYR:HB3	42:GM:323:VAL:HG21	2.01	0.42
41:HD:100:ASN:O	41:HD:101:TRP:C	2.57	0.42
41:HD:182:PRO:O	41:HD:183:TYR:C	2.57	0.42
41:HD:318:ARG:HE	41:HD:358:PRO:HD3	1.84	0.42
42:HE:363:VAL:HG13	42:HE:366:GLY:HA3	2.01	0.42
42:HG:388:TRP:O	42:HG:392:ASP:HB2	2.19	0.42
42:HI:36:MET:O	42:HI:37:PRO:C	2.57	0.42
41:HJ:209:ASP:OD1	41:HJ:213:ARG:NE	2.52	0.42
42:HK:123:ARG:O	42:HK:127:ASP:N	2.47	0.42
41:HL:210:ILE:O	41:HL:215:LEU:HD13	2.19	0.42
42:HM:88:HIS:ND1	42:HM:89:PRO:HD2	2.34	0.42
42:HM:160:ASP:C	42:HM:162:GLY:H	2.23	0.42
42:HM:221:ARG:N	42:HM:222:PRO:HD3	2.34	0.42
41:ID:139:LEU:HD12	41:ID:170:VAL:HG12	2.00	0.42
42:IE:124:LYS:H	42:IE:124:LYS:HG2	1.50	0.42
42:IE:355:ILE:H	42:IE:355:ILE:HG12	1.30	0.42
41:IH:316:VAL:HA	41:IH:352:ALA:HB3	2.01	0.42
42:IM:70:LEU:HD22	42:IM:145:THR:HG22	2.00	0.42
42:IM:267:PHE:HD2	42:IM:388:TRP:HH2	1.67	0.42
41:IN:403:MET:HE3	41:IN:403:MET:HB3	1.95	0.42
42:JC:54:SER:HB3	42:JC:62:VAL:HB	2.02	0.42
42:JI:292:THR:HA	42:JI:295:CYS:SG	2.59	0.42
41:JJ:1:MET:CE	42:JK:72:PRO:HG2	2.49	0.42
42:JK:221:ARG:H	42:JK:221:ARG:HG2	1.31	0.42
42:JM:1:MET:O	42:JM:3:GLU:N	2.53	0.42
42:KC:141:PHE:O	42:KC:147:SER:OG	2.36	0.42
42:KG:7:VAL:HG11	42:KG:153:LEU:HD21	2.01	0.42
42:KG:408:TYR:HB3	42:KG:413:MET:HE2	2.01	0.42
42:KI:21:TRP:CZ2	42:KI:65:ALA:HB2	2.55	0.42
42:KI:151:SER:HA	42:KI:193:THR:HG21	2.01	0.42
42:KM:163:LYS:HA	42:KM:163:LYS:HD2	1.57	0.42
42:KM:184:PRO:HA	42:KM:391:LEU:HD11	2.02	0.42
41:LD:107:THR:HB	41:LD:108:GLU:H	1.59	0.42
41:LD:192:LEU:HD23	41:LD:196:THR:HG21	2.00	0.42
41:LH:314:ALA:HA	41:LH:350:LYS:HG2	2.00	0.42
42:ME:169:PHE:CZ	42:ME:231:ILE:HD12	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:MF:285:THR:O	41:MF:288:GLU:N	2.50	0.42
41:MF:392:LYS:HB3	41:MF:392:LYS:HE2	1.48	0.42
42:MG:207:GLU:HG3	42:MG:304:LYS:HG3	2.01	0.42
41:MH:325:GLU:CD	42:MI:221:ARG:HD3	2.40	0.42
41:MJ:193:VAL:HG12	41:MJ:265:PHE:CE1	2.54	0.42
42:MK:178:SER:OG	42:MK:180:ALA:O	2.23	0.42
42:MK:250:VAL:HG23	42:MK:354:GLY:HA3	2.00	0.42
42:MK:266:HIS:ND1	42:MK:266:HIS:O	2.51	0.42
41:MN:363:MET:HE2	41:MN:363:MET:HB2	1.62	0.42
42:NA:195:LEU:HD13	42:NA:195:LEU:HA	1.92	0.42
41:NB:2:ARG:HD3	41:NB:240:LEU:HD23	2.00	0.42
41:NB:262:ARG:HE	41:NB:262:ARG:HB2	1.56	0.42
42:NC:406:HIS:CD2	42:NC:407:TRP:HD1	2.29	0.42
41:ND:167:PHE:CZ	41:ND:233:MET:HA	2.55	0.42
41:NF:52:ASN:O	41:NF:60:VAL:HB	2.19	0.42
41:NF:132:GLY:HA2	41:NF:162:ARG:HB3	2.00	0.42
41:NJ:317:PHE:N	41:NJ:352:ALA:O	2.52	0.42
42:NK:163:LYS:HD3	42:NK:163:LYS:HA	1.68	0.42
42:NK:195:LEU:HD13	42:NK:195:LEU:HA	1.81	0.42
42:NK:384:ILE:HG23	42:NK:388:TRP:CZ3	2.54	0.42
41:OB:323:MET:HG3	41:OB:353:VAL:CG2	2.49	0.42
41:OD:118:ASP:OD1	41:OD:121:ARG:NH2	2.43	0.42
41:OH:321:MET:HG2	41:OH:363:MET:HE3	2.02	0.42
42:OI:60:LYS:HD2	42:OI:61:HIS:N	2.32	0.42
42:OI:263:PRO:HD3	41:OJ:396:HIS:CD2	2.55	0.42
41:OJ:334:GLN:HE22	41:OJ:348:ASN:HD22	1.66	0.42
42:OK:98:ASP:O	42:OK:105:ARG:NH1	2.52	0.42
41:OL:109:GLY:O	41:OL:113:VAL:HG23	2.20	0.42
42:PA:121:ARG:H	42:PA:121:ARG:HG2	1.49	0.42
41:PB:60:VAL:HG22	41:QB:281:TYR:HD1	1.84	0.42
41:PD:53:GLU:HA	41:PD:59:TYR:HA	2.01	0.42
41:PD:84:ILE:O	41:PD:85:PHE:C	2.58	0.42
41:PD:303:CYS:SG	41:PD:374:ILE:HA	2.60	0.42
41:PF:250:LEU:HD23	41:PF:250:LEU:HA	1.86	0.42
42:PG:8:HIS:O	42:PG:67:PHE:HA	2.19	0.42
42:PG:436:GLY:O	42:PG:437:MET:C	2.56	0.42
42:PI:71:GLU:H	42:PI:71:GLU:HG2	1.59	0.42
42:PI:130:THR:OG1	42:PI:131:GLY:N	2.51	0.42
41:PJ:65:LEU:HB2	41:PJ:89:ASN:O	2.19	0.42
41:PJ:222:TYR:C	41:PJ:224:ASP:H	2.23	0.42
42:PK:257:THR:OG1	42:PK:258:ASN:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:PL:415:MET:HE2	41:PL:415:MET:HB2	1.92	0.42
41:QB:261:PRO:HG3	42:QC:406:HIS:CG	2.53	0.42
41:QB:285:THR:HG23	41:QB:287:PRO:HD2	2.01	0.42
41:QB:346:PRO:HG2	42:QC:394:LYS:HB2	2.01	0.42
41:QB:423:GLN:O	41:QB:426:GLN:HB3	2.20	0.42
41:QF:237:THR:HG22	41:QF:250:LEU:HD23	2.00	0.42
42:QI:8:HIS:H	42:QI:8:HIS:CD2	2.37	0.42
42:QI:409:VAL:HB	42:QI:415:GLU:HG3	2.01	0.42
41:QJ:284:LEU:HD23	41:QJ:362:LYS:HG3	2.00	0.42
41:QJ:285:THR:HG23	41:QJ:287:PRO:HD2	2.00	0.42
41:QJ:389:PHE:CZ	41:QJ:408:PHE:HB2	2.55	0.42
42:QK:1:MET:O	42:QK:2:ARG:C	2.58	0.42
42:QK:276:ILE:HD12	42:QK:276:ILE:HA	1.76	0.42
41:RB:211:CYS:HA	41:RB:215:LEU:HB2	2.01	0.42
41:RD:21:TRP:CZ3	41:RD:50:TYR:HB3	2.54	0.42
41:RD:200:TYR:CE1	41:RD:368:ILE:HG21	2.53	0.42
41:RD:323:MET:O	41:RD:324:LYS:C	2.57	0.42
42:RE:8:HIS:HE2	42:RE:21:TRP:HE1	1.67	0.42
41:RF:112:LEU:O	41:RF:115:SER:N	2.51	0.42
41:RF:184:ASN:O	41:RF:185:ALA:C	2.58	0.42
42:RG:52:PHE:O	42:RG:64:ARG:N	2.53	0.42
42:RI:115:ILE:HD13	42:RI:115:ILE:HA	1.93	0.42
41:RJ:30:ILE:HG23	41:RJ:34:GLY:HA2	2.00	0.42
41:RJ:248:ALA:HB2	41:RJ:352:ALA:CB	2.49	0.42
42:SC:315:CYS:HB2	42:SC:351:PHE:CE1	2.55	0.42
41:SD:375:GLN:HB3	41:SD:422:TYR:HD2	1.85	0.42
42:SE:89:PRO:O	42:SE:91:GLN:N	2.52	0.42
42:SE:243:ARG:H	42:SE:243:ARG:HG2	1.47	0.42
42:SE:422:ARG:HA	42:SE:422:ARG:HD2	1.64	0.42
41:SF:198:GLU:HG2	41:SF:266:PHE:CE2	2.55	0.42
41:SF:402:GLY:O	41:SF:403:MET:C	2.58	0.42
42:SG:207:GLU:O	42:SG:210:TYR:HB2	2.20	0.42
42:SG:210:TYR:HE1	42:SG:227:LEU:HD21	1.85	0.42
42:SI:172:TYR:CG	42:SI:173:PRO:HD2	2.55	0.42
42:SI:261:PRO:HD2	42:SI:265:ILE:HG23	2.01	0.42
42:SI:385:ALA:O	42:SI:386:GLU:C	2.57	0.42
41:SJ:64:VAL:HG22	41:SJ:119:VAL:HG12	1.99	0.42
41:SJ:173:PRO:HG3	41:SJ:380:ARG:HD2	2.01	0.42
41:SL:19:LYS:HZ3	41:SL:227:HIS:HB2	1.85	0.42
42:SM:286:LEU:HD13	42:SM:371:VAL:HG21	2.00	0.42
41:TD:324:LYS:HE3	42:TE:210:TYR:HA	1.99	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:TG:223:THR:HG23	42:TG:225:THR:H	1.84	0.42
41:TH:30:ILE:HD11	41:TH:47:ILE:HD11	2.01	0.42
42:TI:15:GLN:HB3	42:TI:224:TYR:CE2	2.54	0.42
42:TI:121:ARG:HD2	42:TI:124:LYS:HD2	2.01	0.42
42:TK:189:LEU:H	42:TK:189:LEU:HG	1.63	0.42
41:TL:8:GLN:NE2	41:TL:14:ASN:HD22	2.17	0.42
42:TM:65:ALA:HB3	42:TM:91:GLN:NE2	2.34	0.42
42:TM:306:ASP:O	42:TM:309:HIS:ND1	2.52	0.42
42:UC:112:LYS:HD2	42:UC:112:LYS:HA	1.86	0.42
42:UC:186:ASN:O	42:UC:190:THR:HG23	2.19	0.42
41:UD:10:GLY:HA2	41:UD:143:THR:HG23	2.01	0.42
42:UG:30:ILE:H	42:UG:30:ILE:HG12	1.54	0.42
42:UG:201:ALA:HB3	42:UG:267:PHE:CD1	2.55	0.42
42:UG:256:GLN:N	42:UG:256:GLN:OE1	2.52	0.42
42:UI:260:VAL:HA	42:UI:261:PRO:HD3	1.82	0.42
42:UK:295:CYS:HB3	42:UK:377:MET:HG3	2.00	0.42
41:UL:63:ALA:O	41:UL:89:ASN:ND2	2.53	0.42
41:UL:248:ALA:HA	41:UL:252:LYS:HE3	2.00	0.42
42:UM:332:ILE:HG22	42:UM:336:LYS:HD2	2.02	0.42
41:VF:327:ASP:HB3	42:VG:177:VAL:HG21	2.01	0.42
41:VL:270:PHE:CE2	41:VL:272:PRO:HD2	2.54	0.42
41:VL:342:VAL:HB	41:VL:344:TRP:CD1	2.55	0.42
42:VM:184:PRO:HA	42:VM:391:LEU:HD11	2.01	0.42
42:WC:265:ILE:HD11	42:WC:431:ASP:HB3	2.01	0.42
41:WF:302:ALA:HB3	41:WF:377:LEU:HD11	2.00	0.42
41:WH:97:ALA:O	41:WH:98:GLY:C	2.57	0.42
41:WH:183:TYR:O	41:WH:187:LEU:HG	2.19	0.42
41:WH:257:MET:O	41:WH:259:PRO:HD3	2.19	0.42
42:WI:274:PRO:HG3	42:WI:374:ALA:HA	2.01	0.42
42:WI:311:LYS:HB2	42:WI:311:LYS:HE3	1.74	0.42
41:WJ:167:PHE:CE1	41:WJ:200:TYR:HD2	2.37	0.42
2:1E:211:LEU:HD23	26:4L:265:LEU:HG	2.01	0.42
13:2S:284:ILE:HG12	42:GC:370:LYS:HE3	2.01	0.42
19:3K:12:LEU:HD11	41:LH:361:LEU:HD11	2.00	0.42
21:3V:191:LEU:HD21	21:3V:196:ARG:HB2	2.01	0.42
22:3Z:95:PHE:HB2	41:AH:48:ASN:OD1	2.18	0.42
24:4F:137:ARG:O	24:4F:141:ILE:HG12	2.19	0.42
26:4K:263:GLU:O	26:4K:267:LEU:HD23	2.19	0.42
29:4Y:107:ARG:O	29:4Y:109:ARG:NH2	2.52	0.42
32:5O:195:SER:N	32:5O:198:ILE:HD11	2.34	0.42
33:5Q:32:ARG:HH22	33:5R:282:GLN:HG3	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:5R:396:LYS:HA	33:5R:399:VAL:HG12	2.01	0.42
33:5W:106:LYS:NZ	33:5W:251:ASN:OD1	2.40	0.42
33:5X:91:ALA:HB1	33:5X:240:ARG:NE	2.35	0.42
33:5X:391:MET:O	33:5X:395:ARG:N	2.51	0.42
34:6B:383:LYS:HB2	34:6B:383:LYS:HE3	1.38	0.42
34:6G:436:GLN:CD	34:6G:439:ARG:HH12	2.22	0.42
34:6H:251:GLN:HG2	34:6H:255:GLU:OE1	2.20	0.42
35:6Q:119:ARG:NH1	35:6Q:123:GLU:OE1	2.48	0.42
35:6S:307:ARG:HD2	35:6S:307:ARG:HA	1.82	0.42
35:6U:121:VAL:HG13	35:6U:208:LYS:HG3	2.02	0.42
35:6V:170:ASP:O	35:6V:173:GLU:N	2.48	0.42
35:6V:427:ARG:HG3	35:6V:428:HIS:H	1.84	0.42
40:7N:386:VAL:HG21	41:MH:245:GLN:HE21	1.85	0.42
41:AH:7:LEU:HD11	41:AH:133:PHE:HB2	2.00	0.42
41:AH:305:PRO:O	41:AH:306:ARG:HB2	2.19	0.42
41:AH:318:ARG:HE	41:AH:318:ARG:HB3	1.48	0.42
42:AI:274:PRO:HD3	42:AI:374:ALA:HA	2.02	0.42
42:AI:288:VAL:CG2	42:AI:323:VAL:HG13	2.49	0.42
42:AK:90:GLU:O	42:AK:91:GLN:C	2.57	0.42
41:AL:113:VAL:HG12	41:AL:117:LEU:HD22	2.02	0.42
42:BC:255:PHE:HZ	42:BC:318:LEU:HD21	1.84	0.42
41:BD:22:GLU:HG2	41:BD:81:PHE:HB2	2.01	0.42
41:BD:97:ALA:O	41:BD:98:GLY:C	2.57	0.42
42:BE:423:GLU:HA	42:BE:426:ALA:HB3	2.02	0.42
42:BG:326:LYS:HE2	41:BH:220:PRO:HD2	2.01	0.42
41:BH:403:MET:HG3	41:BH:404:ASP:H	1.83	0.42
42:BI:7:VAL:O	42:BI:137:ILE:HA	2.19	0.42
42:BI:339:ARG:HD2	42:BI:339:ARG:HA	1.76	0.42
41:BJ:149:THR:HG23	41:BJ:191:GLN:NE2	2.32	0.42
41:BL:320:ARG:HE	41:BL:320:ARG:HB3	1.62	0.42
41:CB:156:ARG:HD2	41:CB:195:ASN:HB2	2.02	0.42
41:CB:170:VAL:HG11	41:CB:377:LEU:HD11	2.02	0.42
42:CC:398:MET:HE3	42:CC:398:MET:HB3	1.84	0.42
41:CD:131:GLN:OE1	41:CD:250:LEU:HB2	2.19	0.42
42:CG:37:PRO:O	42:CG:38:SER:C	2.58	0.42
42:CG:335:ILE:HG23	42:CG:341:ILE:HD13	2.01	0.42
41:CJ:107:THR:OG1	41:CJ:401:GLU:HG3	2.18	0.42
42:CM:167:LEU:HB3	42:CM:202:PHE:CE2	2.55	0.42
42:DC:172:TYR:CZ	42:DC:388:TRP:HD1	2.36	0.42
42:DC:217:LEU:HD23	42:DC:277:SER:HA	2.02	0.42
41:DD:33:THR:O	41:DD:58:LYS:NZ	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DE:9:VAL:HB	42:DE:139:HIS:HB3	2.02	0.42
42:DE:14:VAL:HG23	42:DE:67:PHE:HD2	1.85	0.42
41:DF:101:TRP:CE3	41:DF:187:LEU:HD23	2.54	0.42
41:DJ:54:ALA:O	41:DJ:55:THR:C	2.58	0.42
41:DJ:107:THR:OG1	41:DJ:108:GLU:N	2.52	0.42
41:DJ:139:LEU:HA	41:DJ:145:SER:HB2	2.01	0.42
41:DJ:395:LEU:O	41:DJ:399:THR:N	2.48	0.42
42:DK:112:LYS:HZ3	42:DK:112:LYS:HG2	1.71	0.42
42:DK:176:GLN:HE21	42:DK:176:GLN:HB3	1.60	0.42
42:DK:306:ASP:HB3	42:DK:309:HIS:CE1	2.55	0.42
42:DK:338:LYS:HD3	42:DK:338:LYS:HA	1.84	0.42
41:DL:189:VAL:O	41:DL:193:VAL:HG23	2.19	0.42
41:DL:207:LEU:HB3	41:DL:225:LEU:HG	2.02	0.42
41:ED:187:LEU:HA	41:ED:190:HIS:NE2	2.33	0.42
41:ED:336:LYS:HE3	41:ED:336:LYS:HB3	1.79	0.42
42:EE:251:ASP:N	42:EE:251:ASP:OD1	2.52	0.42
41:EF:117:LEU:HB3	41:EF:121:ARG:NH1	2.34	0.42
41:EF:242:PHE:HB3	41:EF:356:ILE:HD12	2.01	0.42
42:EG:100:ALA:C	42:EG:102:ASN:N	2.71	0.42
41:EH:313:VAL:HG13	41:EH:367:PHE:HE1	1.84	0.42
41:EJ:139:LEU:HG	41:EJ:168:SER:OG	2.19	0.42
42:EK:205:ASP:O	42:EK:206:ASN:C	2.58	0.42
42:EK:296:PHE:HE2	42:EK:317:LEU:HD21	1.84	0.42
41:EL:299:MET:HG3	41:EL:305:PRO:HG3	2.00	0.42
42:EM:425:MET:O	42:EM:428:LEU:HB2	2.19	0.42
42:FC:188:ILE:HG12	42:FC:395:PHE:CD2	2.55	0.42
42:FC:188:ILE:HG12	42:FC:395:PHE:CE2	2.54	0.42
42:FI:76:ASP:HA	42:FI:79:ARG:HG2	2.02	0.42
41:FJ:186:THR:HG22	41:FJ:415:MET:HG3	2.00	0.42
41:FJ:324:LYS:HG2	42:FK:222:PRO:CG	2.48	0.42
41:FL:174:LYS:HA	41:FL:174:LYS:HD2	1.87	0.42
41:FL:323:MET:CB	42:FM:224:TYR:CE1	3.02	0.42
42:FM:7:VAL:HG23	42:FM:66:VAL:HB	2.01	0.42
42:FM:236:SER:HA	42:FM:243:ARG:HH22	1.83	0.42
42:GE:98:ASP:O	42:GE:105:ARG:NH1	2.46	0.42
41:GH:416:ASN:HA	41:GH:419:VAL:HG12	2.01	0.42
41:GJ:9:ALA:HA	41:GJ:66:VAL:O	2.20	0.42
41:GJ:252:LYS:HG3	42:GK:101:ASN:CB	2.37	0.42
42:GK:138:PHE:HZ	42:GK:235:VAL:HG21	1.85	0.42
42:HC:184:PRO:HG3	42:HC:394:LYS:HE3	2.01	0.42
42:HC:225:THR:OG1	42:HC:226:ASN:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:HC:232:GLY:O	42:HC:233:GLN:C	2.57	0.42
41:HD:258:VAL:C	42:HE:404:PHE:HE1	2.22	0.42
41:HD:325:GLU:O	41:HD:329:GLN:HB2	2.19	0.42
41:HD:378:PHE:HA	41:HD:381:ILE:HD12	2.01	0.42
41:HD:390:ARG:HG3	41:HD:391:ARG:HG3	2.01	0.42
42:HG:152:LEU:O	42:HG:153:LEU:C	2.58	0.42
41:HH:154:LYS:HE2	41:HH:154:LYS:HB2	1.76	0.42
42:HI:290:GLU:HG3	42:HI:291:ILE:N	2.35	0.42
41:HJ:137:HIS:CE1	41:HJ:168:SER:HB2	2.54	0.42
41:HJ:308:GLY:HA2	41:HJ:426:GLN:HE21	1.85	0.42
42:HK:70:LEU:HD23	42:HK:145:THR:HG23	2.02	0.42
42:HM:29:GLY:O	42:HM:30:ILE:C	2.57	0.42
42:HM:328:VAL:CG1	42:HM:353:VAL:HG11	2.50	0.42
42:HM:368:LEU:HD13	42:HM:368:LEU:HA	1.82	0.42
41:ID:199:THR:HG23	41:ID:264:HIS:HD2	1.84	0.42
41:IF:258:VAL:HB	42:IG:407:TRP:HZ2	1.84	0.42
41:IF:259:PRO:HG2	41:IF:263:LEU:HD23	2.01	0.42
42:IG:182:VAL:HG13	42:IG:186:ASN:HD21	1.85	0.42
42:IG:335:ILE:HA	42:IG:338:LYS:HG2	2.00	0.42
41:IH:26:ASP:N	41:IH:26:ASP:OD1	2.51	0.42
42:JC:23:LEU:HA	42:JC:26:LEU:HB3	2.00	0.42
41:JF:189:VAL:HA	41:JF:192:LEU:HB3	2.00	0.42
41:JF:238:THR:HG21	41:JF:318:ARG:NE	2.35	0.42
42:JG:178:SER:HB3	42:JG:183:GLU:HG3	2.01	0.42
41:JL:293:MET:HE3	41:JL:293:MET:HB3	1.81	0.42
42:KC:234:ILE:HD11	42:KC:302:MET:SD	2.59	0.42
42:KG:9:VAL:HG13	42:KG:139:HIS:HB3	2.00	0.42
42:KK:9:VAL:HA	42:KK:68:VAL:O	2.20	0.42
41:KL:324:LYS:CB	42:KM:222:PRO:HD2	2.48	0.42
42:LC:88:HIS:HB3	42:LC:91:GLN:HB2	2.01	0.42
41:LH:25:SER:HB3	41:LH:30:ILE:HB	2.00	0.42
41:LH:278:SER:HA	41:LH:281:TYR:HD2	1.83	0.42
41:LN:10:GLY:HA2	41:LN:143:THR:HG23	2.00	0.42
42:MC:231:ILE:HA	42:MC:234:ILE:HD12	2.01	0.42
41:MD:310:TYR:CE1	41:MD:367:PHE:HZ	2.38	0.42
41:MF:44:LEU:HD12	41:MF:44:LEU:HA	1.85	0.42
41:MF:181:GLU:O	41:MF:182:PRO:C	2.57	0.42
42:MI:211:ASP:OD1	42:MI:212:ILE:N	2.52	0.42
41:ML:311:LEU:HB3	41:ML:370:ASN:HB3	2.00	0.42
42:MM:261:PRO:HA	41:MN:394:PHE:CD1	2.55	0.42
41:MN:66:VAL:HA	41:MN:91:VAL:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:MN:117:LEU:HD13	41:MN:117:LEU:HA	1.82	0.42
42:NA:81:GLY:O	42:NA:84:ARG:HB3	2.19	0.42
41:NB:374:ILE:O	41:NB:375:GLN:C	2.58	0.42
42:NE:97:GLU:HB2	42:NE:110:ILE:HD13	2.02	0.42
41:NF:8:GLN:H	41:NF:8:GLN:HG2	1.47	0.42
41:NF:278:SER:O	41:NF:280:GLN:N	2.52	0.42
41:NH:192:LEU:HD22	41:NH:192:LEU:HA	1.88	0.42
41:NH:305:PRO:C	41:NH:307:HIS:H	2.23	0.42
41:NJ:7:LEU:HD12	41:NJ:135:LEU:HD12	2.01	0.42
42:NK:217:LEU:HB3	42:NK:219:ILE:HG12	2.01	0.42
42:OA:49:PHE:O	42:OA:53:PHE:HB2	2.19	0.42
41:OB:31:ASP:O	41:OB:34:GLY:N	2.53	0.42
42:OC:301:GLN:NE2	42:OC:307:PRO:HG2	2.34	0.42
42:OC:313:MET:HG3	42:OC:346:TRP:CH2	2.54	0.42
42:OC:328:VAL:HG21	42:OC:355:ILE:HD11	2.00	0.42
42:OE:280:LYS:O	42:OE:284:GLU:HG3	2.20	0.42
41:OH:286:VAL:HG11	41:OH:326:VAL:HG22	2.02	0.42
41:OH:298:ASN:O	41:OH:299:MET:C	2.56	0.42
41:OH:338:SER:O	41:OH:339:SER:C	2.58	0.42
42:OI:202:PHE:CE2	42:OI:378:LEU:HD12	2.55	0.42
41:OJ:31:ASP:HB3	41:OJ:37:HIS:HD2	1.84	0.42
42:OK:402:ARG:HB3	42:OK:405:VAL:HG11	2.02	0.42
42:PA:51:THR:HG23	42:PA:52:PHE:H	1.84	0.42
42:PA:188:ILE:H	42:PA:188:ILE:HG13	1.41	0.42
42:PA:215:ARG:H	42:PA:215:ARG:HG3	1.60	0.42
42:PA:268:PRO:HA	42:PA:380:ASN:HA	2.02	0.42
42:PA:291:ILE:H	42:PA:291:ILE:HG12	1.46	0.42
42:PA:319:TYR:HD2	42:PA:375:VAL:HG22	1.85	0.42
41:PB:19:LYS:HA	41:PB:22:GLU:HB3	2.00	0.42
41:PB:68:LEU:H	41:PB:68:LEU:HG	1.47	0.42
41:PB:321:MET:HE3	41:PB:321:MET:HB3	1.93	0.42
42:PC:89:PRO:HD3	42:QC:283:HIS:ND1	2.34	0.42
42:PE:8:HIS:HA	42:PE:138:PHE:O	2.18	0.42
42:PG:300:ASN:O	42:PG:301:GLN:HG2	2.20	0.42
42:PG:398:MET:HE3	42:PG:398:MET:HB3	1.73	0.42
41:PH:242:PHE:HA	41:PH:243:PRO:HD3	1.90	0.42
41:PH:425:TYR:O	41:PH:427:ASP:N	2.53	0.42
42:PI:144:GLY:C	42:PI:146:GLY:H	2.20	0.42
42:PI:157:LEU:HD12	42:PI:157:LEU:HA	1.79	0.42
42:PI:299:ALA:C	42:PI:301:GLN:H	2.22	0.42
42:PK:163:LYS:HD3	42:PK:163:LYS:HA	1.31	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:PK:264:ARG:HD2	42:PK:264:ARG:HA	1.78	0.42
41:QD:117:LEU:HA	41:QD:120:VAL:HG22	2.00	0.42
41:QD:207:LEU:HD11	41:QD:300:MET:HB3	2.01	0.42
42:QE:150:THR:O	42:QE:154:MET:HG2	2.20	0.42
42:QE:277:SER:O	42:QE:281:ALA:N	2.50	0.42
41:QF:399:THR:HG22	41:QF:400:GLY:H	1.83	0.42
41:QH:108:GLU:O	41:QH:111:GLU:N	2.52	0.42
41:QH:226:ASN:ND2	43:QH:501:GDP:O6	2.53	0.42
42:QI:121:ARG:O	42:QI:122:ILE:C	2.57	0.42
41:QJ:107:THR:HB	41:QJ:108:GLU:H	1.72	0.42
41:QJ:152:ILE:HA	41:QJ:164:MET:CE	2.49	0.42
41:QJ:266:PHE:HD1	41:QJ:370:ASN:HD22	1.67	0.42
41:QJ:377:LEU:HD23	41:QJ:377:LEU:HA	1.90	0.42
41:QJ:392:LYS:HD3	41:QJ:395:LEU:HD22	2.01	0.42
42:QK:248:LEU:HD12	42:QK:248:LEU:HA	1.87	0.42
41:QL:17:GLY:O	41:QL:20:PHE:HB2	2.20	0.42
42:RC:288:VAL:HG23	42:RC:323:VAL:HG12	2.01	0.42
41:RD:235:GLY:HA3	41:RD:366:THR:HG21	2.01	0.42
42:RE:237:SER:HA	42:RE:320:ARG:HD2	2.02	0.42
41:RH:323:MET:HE1	41:RH:353:VAL:HG21	2.02	0.42
42:RI:269:LEU:HG	42:RI:303:VAL:HG21	2.02	0.42
42:RK:191:THR:O	42:RK:195:LEU:N	2.53	0.42
42:RK:209:ILE:HD13	42:RK:209:ILE:HG21	1.83	0.42
42:SC:139:HIS:NE2	42:SC:168:GLU:OE2	2.53	0.42
42:SC:406:HIS:HA	42:SC:409:VAL:HG12	2.02	0.42
41:SD:251:ARG:HH12	42:SE:105:ARG:CZ	2.33	0.42
41:SD:323:MET:HB3	41:SD:323:MET:HE2	1.49	0.42
42:SE:85:GLN:H	42:SE:85:GLN:HG2	1.51	0.42
42:SE:202:PHE:HE1	42:SE:378:LEU:HD21	1.83	0.42
41:SF:152:ILE:H	41:SF:152:ILE:HG13	1.67	0.42
41:SF:271:ALA:CB	41:SF:365:ALA:HB3	2.50	0.42
41:SH:228:LEU:HD23	41:SH:228:LEU:HA	1.91	0.42
42:SI:121:ARG:HH22	42:TI:283:HIS:CE1	2.37	0.42
42:SI:273:ALA:CB	42:SI:375:VAL:HG12	2.50	0.42
41:SL:64:VAL:HB	41:SL:119:VAL:CG1	2.49	0.42
41:SL:320:ARG:HH12	41:SL:357:PRO:HD3	1.84	0.42
42:TC:346:TRP:CD1	41:TD:391:ARG:HD3	2.54	0.42
41:TF:185:ALA:O	41:TF:189:VAL:N	2.42	0.42
42:TG:109:THR:HG22	42:TG:110:ILE:HG23	2.00	0.42
42:TG:347:CYS:HB3	41:TH:394:PHE:HE2	1.84	0.42
42:TI:64:ARG:HE	42:TI:64:ARG:HB2	1.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:TI:209:ILE:H	42:TI:209:ILE:HG12	1.55	0.42
41:TJ:318:ARG:NH2	41:TJ:358:PRO:HB3	2.35	0.42
41:TJ:324:LYS:HD3	42:TK:222:PRO:HG2	2.01	0.42
41:TJ:359:ARG:H	41:TJ:359:ARG:HG2	1.59	0.42
42:TK:254:GLU:O	42:TK:258:ASN:HB2	2.20	0.42
41:TL:255:VAL:HG11	42:TM:100:ALA:O	2.20	0.42
42:TM:5:ILE:HB	42:TM:135:PHE:CD2	2.54	0.42
42:UC:7:VAL:HG13	42:UC:66:VAL:HG13	2.01	0.42
42:UC:182:VAL:O	42:UC:183:GLU:C	2.58	0.42
42:UG:240:ALA:HB1	42:UG:356:ASN:HD22	1.84	0.42
41:UJ:164:MET:O	41:UJ:166:THR:OG1	2.35	0.42
41:UL:31:ASP:OD1	41:UL:35:THR:N	2.52	0.42
41:UL:58:LYS:NZ	41:VL:280:GLN:HB3	2.35	0.42
41:UL:313:VAL:HG13	41:UL:367:PHE:HE1	1.83	0.42
41:UL:330:MET:HE2	41:UL:349:VAL:HG21	2.02	0.42
42:VC:135:PHE:HD2	42:VC:166:LYS:HG2	1.85	0.42
41:VF:237:THR:HG22	41:VF:250:LEU:HD21	2.01	0.42
42:VI:231:ILE:HA	42:VI:234:ILE:HD12	2.01	0.42
41:VL:254:ALA:O	41:VL:258:VAL:HG12	2.19	0.42
42:VM:31:GLN:HG3	42:VM:37:PRO:HD3	2.02	0.42
41:WF:187:LEU:H	41:WF:187:LEU:HG	1.54	0.42
41:WF:213:ARG:O	41:WF:214:THR:C	2.58	0.42
42:WG:142:GLY:HA3	42:WG:183:GLU:OE2	2.20	0.42
42:WG:287:SER:OG	42:WG:288:VAL:N	2.52	0.42
41:WH:222:TYR:HD2	41:WH:222:TYR:HA	1.69	0.42
42:WI:401:LYS:HE3	42:WI:401:LYS:HB3	1.90	0.42
41:WJ:334:GLN:NE2	41:WJ:348:ASN:H	2.17	0.42
42:WK:139:HIS:CG	42:WK:150:THR:HG1	2.34	0.42
12:2P:407:GLU:OE1	21:3U:15:ASN:HB3	2.19	0.42
19:3K:94:LYS:NZ	42:AG:26:LEU:O	2.39	0.42
20:3O:442:TYR:OH	20:3O:447:ASP:OD1	2.23	0.42
20:3O:471:ARG:HD2	20:3O:488:ILE:HD12	2.01	0.42
20:3Q:349:TYR:CE2	20:3Q:353:LYS:HE2	2.55	0.42
22:3X:28:ARG:HA	22:3X:28:ARG:HD2	1.75	0.42
22:3Y:19:GLY:O	22:3Y:20:TYR:C	2.57	0.42
22:3Z:18:PRO:HA	22:3Z:35:TYR:CE1	2.54	0.42
25:4J:261:THR:HG22	25:4J:325:PHE:CE1	2.55	0.42
27:4Q:194:LEU:HD13	27:4Q:248:VAL:HG23	2.01	0.42
27:4R:43:THR:O	27:4R:47:MET:HB2	2.19	0.42
32:5M:344:ILE:HD13	32:5M:344:ILE:HA	1.92	0.42
32:5O:121:LYS:HD3	32:5O:121:LYS:HA	1.70	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:5O:244:ARG:H	32:5O:244:ARG:HG2	1.55	0.42
33:5Q:210:ASN:OD1	33:5Q:211:GLY:N	2.40	0.42
33:5V:252:ASN:HB3	34:6A:320:LYS:CE	2.40	0.42
33:5X:370:LEU:O	33:5X:374:GLN:HG2	2.20	0.42
34:6A:184:ALA:O	34:6A:188:THR:HG23	2.19	0.42
34:6F:302:LYS:HD3	34:6F:302:LYS:HA	1.87	0.42
34:6H:476:MET:O	34:6H:478:ARG:N	2.52	0.42
35:6P:106:ARG:HH11	35:6P:106:ARG:HG2	1.84	0.42
35:6V:147:GLY:O	35:6V:148:PRO:C	2.58	0.42
37:7C:137:PRO:HD3	42:SK:161:TYR:CZ	2.54	0.42
37:7C:242:HIS:HB3	37:7C:243:SER:H	1.65	0.42
37:7D:29:LYS:O	42:TE:298:PRO:HG3	2.20	0.42
38:7H:68:TYR:CD1	41:IJ:291:GLN:HG3	2.54	0.42
40:7N:334:THR:H	40:7N:337:LYS:HG2	1.84	0.42
41:AB:180:VAL:HG23	41:AB:394:PHE:HB3	2.02	0.42
41:AB:266:PHE:HB3	41:AB:368:ILE:HB	2.02	0.42
41:AD:262:ARG:HE	41:AD:262:ARG:HB2	1.60	0.42
41:AF:256:ASN:CG	41:AF:350:LYS:HD2	2.40	0.42
42:AG:250:VAL:HG13	42:AG:254:GLU:HB2	2.00	0.42
41:AH:60:VAL:HG11	41:BH:281:TYR:HB3	2.01	0.42
41:AH:242:PHE:CD1	41:AH:356:ILE:HG13	2.55	0.42
42:AI:317:LEU:HB3	42:AI:319:TYR:CE1	2.55	0.42
41:AL:376:GLU:HG3	41:AL:377:LEU:N	2.34	0.42
41:BB:7:LEU:HD21	41:BB:151:LEU:HD13	2.00	0.42
41:BD:169:VAL:HA	41:BD:202:ILE:O	2.18	0.42
42:BG:139:HIS:HE1	42:BG:168:GLU:HB2	1.84	0.42
42:BG:184:PRO:HG3	42:BG:394:LYS:HG2	2.02	0.42
42:BG:254:GLU:CD	41:BH:98:GLY:HA2	2.39	0.42
42:BK:7:VAL:HG11	42:BK:153:LEU:HD21	2.02	0.42
42:CC:6:SER:O	42:CC:65:ALA:HB1	2.20	0.42
42:CC:208:ALA:HA	42:CC:211:ASP:OD2	2.18	0.42
41:CF:44:LEU:C	41:CF:46:ARG:H	2.23	0.42
41:CH:267:MET:HA	41:CH:268:PRO:HD3	1.87	0.42
42:CK:326:LYS:HD2	41:CL:212:PHE:HZ	1.84	0.42
41:CL:248:ALA:HA	41:CL:252:LYS:HE2	2.02	0.42
41:CL:356:ILE:HD13	41:CL:356:ILE:HA	1.90	0.42
42:DE:156:ARG:HA	42:DE:159:VAL:HG12	2.01	0.42
42:DG:402:ARG:HD3	42:DG:402:ARG:HA	1.80	0.42
42:DK:159:VAL:HB	42:DK:160:ASP:H	1.63	0.42
42:DK:171:ILE:HA	42:DK:204:VAL:HA	2.01	0.42
42:DK:217:LEU:H	42:DK:217:LEU:HG	1.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:ED:379:LYS:HD2	41:ED:379:LYS:HA	1.90	0.42
42:EE:312:TYR:CD2	42:EE:341:ILE:HG23	2.55	0.42
42:EG:32:PRO:O	42:EG:33:ASP:C	2.57	0.42
42:EG:408:TYR:HB3	42:EG:413:MET:SD	2.59	0.42
41:EH:19:LYS:HE2	41:EH:19:LYS:HB2	1.86	0.42
42:EI:180:ALA:HB3	42:EI:183:GLU:HB2	2.00	0.42
42:EK:7:VAL:HG13	42:EK:137:ILE:HG23	2.01	0.42
41:EL:12:CYS:SG	41:EL:138:SER:HB2	2.60	0.42
41:EL:207:LEU:HD23	41:EL:207:LEU:HA	1.82	0.42
41:EL:290:THR:HG21	41:EL:329:GLN:HB3	2.01	0.42
42:EM:259:LEU:O	42:EM:261:PRO:HD3	2.20	0.42
42:FC:416:GLY:O	42:FC:417:GLU:C	2.57	0.42
41:FD:211:CYS:HA	41:FD:215:LEU:HB2	2.01	0.42
41:FF:117:LEU:HA	41:FF:120:VAL:HB	2.01	0.42
42:FG:21:TRP:CH2	42:FG:52:PHE:HB3	2.54	0.42
42:FG:72:PRO:HG3	42:FG:96:LYS:HA	2.00	0.42
41:FJ:155:ILE:HG23	41:FJ:159:TYR:CZ	2.54	0.42
41:FJ:184:ASN:O	41:FJ:188:SER:N	2.50	0.42
42:FK:89:PRO:C	42:FK:91:GLN:H	2.23	0.42
42:FK:152:LEU:O	42:FK:156:ARG:HG2	2.20	0.42
42:FK:252:LEU:HA	42:FK:255:PHE:HD2	1.85	0.42
41:FL:100:ASN:OD1	41:FL:100:ASN:N	2.52	0.42
41:FL:208:TYR:CD1	41:FL:225:LEU:HD22	2.50	0.42
42:GC:16:ILE:HD11	45:GC:501:GTP:N2	2.35	0.42
41:GD:170:VAL:HG21	41:GD:201:CYS:HB2	2.02	0.42
42:GE:318:LEU:HB2	42:GE:376:CYS:SG	2.59	0.42
41:GF:107:THR:HG23	41:GF:108:GLU:OE1	2.20	0.42
41:GJ:217:LEU:O	41:GJ:218:THR:C	2.57	0.42
41:GJ:255:VAL:HG21	42:GK:100:ALA:O	2.20	0.42
42:GK:142:GLY:HA2	42:GK:183:GLU:OE1	2.19	0.42
42:GK:324:VAL:HB	42:GK:327:ASP:HB2	2.01	0.42
42:GK:324:VAL:HG12	42:GK:326:LYS:H	1.83	0.42
41:HD:54:ALA:CA	41:ID:283:ALA:HB2	2.44	0.42
41:HD:269:GLY:O	41:HD:366:THR:HA	2.19	0.42
41:HD:282:ARG:HA	41:HD:282:ARG:HD3	1.89	0.42
42:HE:360:PRO:HG2	42:HE:371:VAL:HG13	2.02	0.42
41:HF:255:VAL:CG1	42:HG:100:ALA:HB1	2.42	0.42
41:HF:386:THR:HA	41:HF:389:PHE:HB3	2.01	0.42
42:HG:118:VAL:HG21	42:HG:153:LEU:HD11	2.01	0.42
42:HG:220:GLU:HB3	42:HG:221:ARG:H	1.71	0.42
42:HG:265:ILE:HG22	42:HG:432:TYR:CE1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:HL:172:SER:HB2	41:HL:205:GLU:HG2	2.01	0.42
42:HM:3:GLU:HA	42:HM:51:THR:HA	2.01	0.42
42:HM:304:LYS:HE2	42:HM:304:LYS:HB3	1.64	0.42
42:IC:216:ASN:N	42:IC:216:ASN:HD22	2.17	0.42
41:ID:60:VAL:HG21	41:ID:86:ARG:CZ	2.49	0.42
41:ID:255:VAL:HG11	42:IE:100:ALA:O	2.20	0.42
41:IF:246:LEU:HD12	41:IF:246:LEU:HA	1.90	0.42
42:II:108:TYR:HA	42:II:112:LYS:HE2	2.01	0.42
41:IL:116:VAL:HG11	41:IL:151:LEU:HD21	2.01	0.42
41:IL:324:LYS:HB3	42:IM:222:PRO:HD2	2.01	0.42
41:IN:156:ARG:HH11	41:IN:164:MET:HB2	1.83	0.42
41:JD:257:MET:SD	41:JD:312:THR:OG1	2.69	0.42
42:JK:29:GLY:O	42:JK:37:PRO:HD2	2.20	0.42
42:KC:142:GLY:HA2	42:KC:183:GLU:HG3	2.01	0.42
41:KH:172:SER:OG	41:KH:205:GLU:OE2	2.27	0.42
42:KI:66:VAL:HG11	42:KI:118:VAL:HG13	2.02	0.42
42:KI:313:MET:HG2	42:KI:346:TRP:CZ2	2.54	0.42
41:KJ:31:ASP:OD1	41:KJ:34:GLY:N	2.53	0.42
41:KN:86:ARG:HG2	41:KN:88:ASP:H	1.84	0.42
41:LH:256:ASN:HB2	42:LI:181:VAL:HB	2.02	0.42
42:LI:213:CYS:HA	42:LI:217:LEU:HD13	2.01	0.42
41:LJ:178:THR:HG22	41:LJ:180:VAL:H	1.84	0.42
42:LM:408:TYR:HD2	42:LM:413:MET:HE1	1.85	0.42
42:MC:1:MET:HE1	41:MD:70:PRO:HG3	1.98	0.42
41:MD:222:TYR:HD1	41:MD:222:TYR:HA	1.70	0.42
42:ME:201:ALA:HB3	42:ME:267:PHE:CD1	2.54	0.42
42:MG:306:ASP:HB3	42:MG:309:HIS:CD2	2.54	0.42
41:MH:260:PHE:HA	41:MH:261:PRO:HD3	1.88	0.42
42:MI:56:THR:HG22	42:MI:58:ALA:H	1.85	0.42
42:MI:254:GLU:OE2	42:MI:258:ASN:ND2	2.53	0.42
41:ML:246:LEU:HD11	45:MM:501:GTP:H3'	2.02	0.42
42:MM:201:ALA:O	42:MM:267:PHE:HA	2.19	0.42
41:MN:156:ARG:HD3	41:MN:156:ARG:HA	1.81	0.42
42:NA:136:LEU:HD23	42:NA:136:LEU:HA	1.79	0.42
42:NA:139:HIS:CE1	42:NA:170:SER:HB2	2.54	0.42
42:NA:171:ILE:HG21	45:NA:501:GTP:HN22	1.85	0.42
41:NB:102:ALA:HB1	41:NB:401:GLU:HB2	2.01	0.42
41:NF:44:LEU:HD12	41:NF:44:LEU:HA	1.86	0.42
41:NF:389:PHE:CE1	41:NF:395:LEU:HD13	2.54	0.42
42:NG:164:LYS:HE3	42:NG:164:LYS:HB3	1.32	0.42
41:NH:362:LYS:HB3	41:NH:362:LYS:HE3	1.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:NI:206:ASN:HA	42:NI:209:ILE:HD12	2.01	0.42
41:NJ:113:VAL:HA	41:NJ:116:VAL:HG22	2.02	0.42
41:NL:273:LEU:O	41:NL:292:GLN:NE2	2.52	0.42
42:OA:311:LYS:N	42:OA:382:THR:OG1	2.53	0.42
41:OB:326:VAL:O	41:OB:329:GLN:HG3	2.18	0.42
41:OB:346:PRO:HD2	42:OC:398:MET:HE3	2.01	0.42
42:OE:196:GLU:HG2	42:OE:197:HIS:CD2	2.54	0.42
42:OG:115:ILE:HA	42:OG:118:VAL:HG22	2.00	0.42
42:OG:286:LEU:HD22	42:OG:371:VAL:HG11	2.00	0.42
42:OI:53:PHE:HB3	42:OI:61:HIS:HB3	2.01	0.42
42:OI:107:HIS:ND1	42:OI:152:LEU:HB2	2.35	0.42
42:OI:135:PHE:HB3	42:OI:166:LYS:HA	2.01	0.42
42:OI:296:PHE:CE1	42:OI:335:ILE:HG21	2.54	0.42
42:OK:51:THR:HG21	42:OK:243:ARG:HD2	2.01	0.42
42:OK:195:LEU:HD12	42:OK:266:HIS:NE2	2.34	0.42
42:PC:135:PHE:O	42:PC:167:LEU:HB2	2.20	0.42
42:PC:240:ALA:HB1	42:PC:243:ARG:HG2	2.01	0.42
41:PD:331:LEU:HD13	41:PD:331:LEU:HA	1.89	0.42
41:PF:84:ILE:H	41:PF:84:ILE:HG13	1.62	0.42
41:PF:108:GLU:O	41:PF:111:GLU:N	2.53	0.42
41:PF:150:LEU:O	41:PF:154:LYS:HB2	2.19	0.42
42:PG:79:ARG:NH2	42:PG:94:THR:OG1	2.52	0.42
42:PG:185:TYR:HE1	42:PG:395:PHE:CE1	2.37	0.42
42:PG:200:CYS:HB2	42:PG:202:PHE:CE1	2.55	0.42
41:PH:86:ARG:HD2	41:PH:89:ASN:HB3	2.01	0.42
41:PH:362:LYS:HB2	41:PH:362:LYS:HE2	1.74	0.42
42:PI:163:LYS:HE2	42:PI:163:LYS:HB3	1.65	0.42
41:PJ:58:LYS:HA	41:PJ:58:LYS:HD3	1.32	0.42
41:PJ:105:HIS:HA	41:PJ:150:LEU:CB	2.50	0.42
41:PJ:336:LYS:HA	41:PJ:336:LYS:HD2	1.27	0.42
42:PK:311:LYS:HE2	42:PK:344:VAL:HA	2.02	0.42
41:PL:174:LYS:HA	41:PL:174:LYS:HD2	1.56	0.42
41:PL:372:THR:O	41:PL:375:GLN:HG3	2.20	0.42
41:QB:292:GLN:HB3	41:QB:298:ASN:HD22	1.85	0.42
42:QE:52:PHE:HZ	42:QE:239:THR:HG21	1.85	0.42
42:QG:107:HIS:H	42:QG:111:GLY:HA3	1.85	0.42
41:QH:174:LYS:HB3	41:QH:174:LYS:HE2	1.62	0.42
41:QH:207:LEU:HD13	41:QH:229:VAL:HG12	2.02	0.42
41:QH:276:ARG:HA	41:QH:276:ARG:HD2	1.36	0.42
41:QH:405:GLU:HA	41:QH:408:PHE:HD1	1.84	0.42
42:QI:141:PHE:O	42:QI:142:GLY:C	2.57	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:QI:177:VAL:HB	42:QI:207:GLU:HB2	2.01	0.42
41:QJ:170:VAL:HG22	41:QJ:171:PRO:HD2	2.00	0.42
41:QL:173:PRO:O	41:QL:174:LYS:C	2.58	0.42
41:RB:103:LYS:HB3	41:RB:103:LYS:HE2	1.86	0.42
41:RB:311:LEU:HD11	41:RB:372:THR:HB	2.02	0.42
42:RE:28:HIS:ND1	42:RE:49:PHE:HA	2.35	0.42
42:RE:203:MET:HE3	42:RE:267:PHE:HB3	2.02	0.42
41:RF:73:MET:HG2	41:RF:77:ARG:HE	1.83	0.42
42:RI:317:LEU:CD2	42:RI:377:MET:HG2	2.48	0.42
41:RJ:139:LEU:HD12	41:RJ:170:VAL:HG13	2.02	0.42
42:RK:332:ILE:HD12	42:RK:351:PHE:CZ	2.54	0.42
41:SD:256:ASN:OD1	42:SE:101:ASN:HB2	2.20	0.42
42:SE:167:LEU:HB3	42:SE:202:PHE:CE2	2.46	0.42
42:SE:425:MET:O	42:SE:428:LEU:HB2	2.19	0.42
41:SF:25:SER:O	41:SF:26:ASP:C	2.58	0.42
41:SH:135:LEU:HD22	41:SH:137:HIS:ND1	2.34	0.42
41:SH:331:LEU:HD12	42:SI:177:VAL:HG13	2.01	0.42
41:SJ:318:ARG:HB2	41:SJ:364:SER:HB3	2.01	0.42
42:SK:253:THR:O	42:SK:257:THR:HG22	2.20	0.42
41:SL:154:LYS:H	41:SL:154:LYS:HG2	1.60	0.42
41:SL:182:PRO:O	41:SL:183:TYR:C	2.58	0.42
41:SL:256:ASN:OD1	42:SM:182:VAL:HG23	2.19	0.42
41:SL:271:ALA:CB	41:SL:365:ALA:HB3	2.49	0.42
41:SL:293:MET:HE2	41:SL:293:MET:HB2	1.60	0.42
45:SM:501:GTP:H8	45:SM:501:GTP:H2'	1.78	0.42
42:TC:56:THR:HA	42:UC:285:GLN:HE22	1.84	0.42
42:TC:185:TYR:OH	42:TC:398:MET:HG2	2.19	0.42
42:TC:201:ALA:H	42:TC:266:HIS:HD2	1.66	0.42
41:TD:324:LYS:HA	42:TE:210:TYR:HE1	1.85	0.42
42:TE:163:LYS:HA	42:TE:163:LYS:HD2	1.80	0.42
42:TG:3:GLU:CD	42:TG:132:LEU:HA	2.40	0.42
42:TG:93:ILE:HD11	42:TG:121:ARG:HG3	2.00	0.42
42:TI:349:THR:O	42:TI:350:GLY:C	2.58	0.42
42:TI:398:MET:HA	42:TI:401:LYS:HZ3	1.84	0.42
42:TK:149:PHE:O	42:TK:152:LEU:HG	2.19	0.42
42:TK:419:SER:O	42:TK:420:GLU:C	2.58	0.42
42:TM:209:ILE:HG23	42:TM:230:LEU:HD12	2.01	0.42
41:UF:259:PRO:HA	42:UG:404:PHE:HD1	1.85	0.42
42:UG:255:PHE:HE1	42:UG:318:LEU:HD21	1.84	0.42
41:UH:139:LEU:HD12	41:UH:170:VAL:HG12	2.02	0.42
41:UH:344:TRP:CD1	41:UH:345:ILE:HG12	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:UI:7:VAL:HG13	42:UI:66:VAL:HB	2.01	0.42
42:UI:286:LEU:HD13	42:UI:371:VAL:HG12	2.01	0.42
42:UI:329:ASN:ND2	41:UJ:175:VAL:HG13	2.34	0.42
42:VM:98:ASP:OD2	42:VM:99:ALA:N	2.51	0.42
41:WF:5:VAL:HG23	41:WF:130:LEU:HD11	2.00	0.42
41:WF:312:THR:HG21	42:WG:404:PHE:HZ	1.85	0.42
42:WG:50:ASN:HA	42:WG:53:PHE:O	2.20	0.42
42:WG:51:THR:HG23	42:WG:52:PHE:HD2	1.84	0.42
42:WK:1:MET:HG2	42:WK:47:ASP:OD1	2.18	0.42
42:WM:258:ASN:ND2	41:WN:178:THR:HG23	2.35	0.42
14:2W:89:ILE:HA	42:NA:57:GLY:HA3	2.02	0.42
14:2W:90:ARG:NH1	42:OA:373:ARG:HD2	2.34	0.42
15:3A:206:GLU:HB2	41:LN:277:GLY:HA3	2.01	0.42
19:3K:298:PRO:HG3	19:3K:315:ILE:HD12	2.00	0.42
19:3K:497:GLU:OE1	19:3K:502:ARG:HG3	2.19	0.42
20:3O:243:ASP:N	20:3O:243:ASP:OD1	2.53	0.42
20:3P:238:HIS:N	20:3P:247:GLU:O	2.36	0.42
21:3V:191:LEU:HB3	21:3V:253:ILE:HG23	2.02	0.42
26:4M:94:ASN:O	26:4M:98:ASN:ND2	2.52	0.42
27:4Q:43:THR:OG1	27:4Q:44:VAL:N	2.52	0.42
27:4Q:197:LEU:HD23	27:4Q:197:LEU:HA	1.92	0.42
27:4R:113:PHE:HB3	27:4R:152:PRO:CB	2.50	0.42
31:5E:132:ARG:O	31:5E:133:ASN:C	2.57	0.42
32:5M:89:GLU:O	32:5M:90:ASP:C	2.57	0.42
32:5N:299:LEU:O	32:5N:303:ILE:HG12	2.19	0.42
32:5O:116:LEU:HD13	32:5O:116:LEU:HA	1.77	0.42
33:5R:125:ASP:O	33:5R:128:VAL:HG23	2.20	0.42
33:5T:308:LEU:HG	33:5T:312:LYS:HD2	2.01	0.42
33:5T:365:ALA:HA	33:5T:368:LYS:HE2	2.01	0.42
33:5T:368:LYS:HE2	33:5T:368:LYS:HB2	1.57	0.42
33:5X:414:THR:OG1	34:6C:248:ARG:NH1	2.51	0.42
34:6L:68:TYR:CD1	35:6R:253:THR:HG22	2.54	0.42
35:6S:391:LEU:HD12	35:6S:391:LEU:HA	1.84	0.42
35:6V:128:THR:O	35:6V:132:LEU:N	2.41	0.42
35:6W:106:ARG:HG2	35:6W:225:ASP:OD2	2.20	0.42
35:6W:244:SER:O	35:6W:245:ALA:C	2.58	0.42
37:7D:78:ARG:HH12	42:SC:93:ILE:HG23	1.84	0.42
42:AG:40:LYS:HE2	42:AG:40:LYS:HB2	1.83	0.42
42:AI:313:MET:HE2	42:AI:313:MET:HB2	1.71	0.42
41:AL:217:LEU:HD12	41:AL:217:LEU:HA	1.83	0.42
41:BB:34:GLY:HA3	41:BB:58:LYS:HE3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BC:105:ARG:NH2	42:BC:110:ILE:HD11	2.35	0.42
41:BD:189:VAL:O	41:BD:190:HIS:C	2.58	0.42
41:BF:8:GLN:HE21	41:BF:65:LEU:HG	1.85	0.42
42:BG:258:ASN:O	41:BH:179:VAL:HG11	2.19	0.42
41:BH:113:VAL:HA	41:BH:116:VAL:HG22	2.02	0.42
41:BH:172:SER:HB3	41:BH:205:GLU:OE1	2.19	0.42
42:BI:241:SER:HB2	42:BI:250:VAL:O	2.19	0.42
41:CF:267:MET:HE2	41:CF:299:MET:HB3	2.01	0.42
42:CG:439:SER:CB	41:CH:391:ARG:HD2	2.50	0.42
42:CI:137:ILE:HB	42:CI:168:GLU:HA	2.02	0.42
42:CI:144:GLY:O	42:CI:149:PHE:N	2.44	0.42
42:CI:171:ILE:HG21	45:CI:501:GTP:H1'	2.01	0.42
41:CJ:41:ASP:O	41:CJ:43:GLN:N	2.52	0.42
42:CK:12:ALA:HB1	42:CK:171:ILE:HD13	2.02	0.42
42:CK:328:VAL:HG11	42:CK:353:VAL:HG11	2.01	0.42
41:DB:117:LEU:HB3	41:DB:121:ARG:NH1	2.35	0.42
41:DB:135:LEU:HD11	41:DB:137:HIS:HB3	2.01	0.42
41:DD:104:GLY:HA3	41:DD:147:MET:HB2	2.02	0.42
41:DD:217:LEU:HD23	41:DD:217:LEU:HA	1.82	0.42
41:DD:315:ALA:HA	41:DD:366:THR:O	2.20	0.42
41:DD:331:LEU:HD13	41:DD:331:LEU:HA	1.83	0.42
42:DE:139:HIS:CD2	42:DE:150:THR:HG21	2.55	0.42
41:DF:91:VAL:HG21	41:DF:116:VAL:HB	2.02	0.42
41:DF:127:CYS:SG	41:DF:130:LEU:HD12	2.59	0.42
41:DF:378:PHE:CD2	41:DF:418:LEU:HD22	2.54	0.42
42:DG:70:LEU:HB2	42:DG:99:ALA:HB2	2.01	0.42
41:DH:54:ALA:HA	41:EH:283:ALA:HB1	1.95	0.42
41:DH:251:ARG:HB2	41:DH:252:LYS:H	1.59	0.42
42:DI:273:ALA:HB2	42:DI:295:CYS:SG	2.60	0.42
41:DJ:286:VAL:O	41:DJ:290:THR:HG23	2.19	0.42
41:DL:197:ASP:CG	41:DL:198:GLU:H	2.23	0.42
42:EC:63:PRO:HD3	42:EC:86:LEU:HG	2.01	0.42
41:ED:107:THR:O	41:ED:108:GLU:C	2.57	0.42
42:EE:143:GLY:HA3	45:EE:501:GTP:O2B	2.18	0.42
42:EE:176:GLN:O	42:EE:177:VAL:C	2.57	0.42
42:EE:265:ILE:HG23	42:EE:432:TYR:CE2	2.55	0.42
42:EG:42:ILE:H	42:EG:42:ILE:HG12	1.46	0.42
42:EG:295:CYS:SG	42:EG:317:LEU:HD21	2.60	0.42
42:EG:388:TRP:O	42:EG:392:ASP:N	2.52	0.42
42:EI:211:ASP:OD1	42:EI:214:ARG:NH1	2.53	0.42
42:EK:189:LEU:HD11	42:EK:418:PHE:HD1	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:EL:46:ARG:NH2	42:EM:76:ASP:OD2	2.53	0.42
42:FC:352:LYS:NZ	41:FD:177:ASP:O	2.51	0.42
41:FD:16:ILE:HA	41:FD:226:ASN:HB3	2.02	0.42
41:FF:131:GLN:HE21	41:FF:251:ARG:HB2	1.84	0.42
41:FH:27:GLU:OE1	41:FH:318:ARG:NH2	2.49	0.42
41:FH:177:ASP:OD2	43:FH:501:GDP:O2'	2.38	0.42
41:FH:240:LEU:H	41:FH:240:LEU:HD23	1.85	0.42
42:FI:288:VAL:HB	42:FI:327:ASP:HB3	2.01	0.42
41:FJ:271:ALA:HB3	41:FJ:365:ALA:HB3	2.02	0.42
42:FK:60:LYS:HE3	42:FK:60:LYS:HB3	1.42	0.42
42:FK:185:TYR:O	42:FK:186:ASN:C	2.58	0.42
41:FL:106:TYR:HB2	41:FL:401:GLU:OE1	2.20	0.42
41:FL:113:VAL:HG21	41:FL:150:LEU:HD23	2.01	0.42
41:FL:135:LEU:HD13	41:FL:152:ILE:HG13	2.01	0.42
41:FL:309:ARG:HG3	41:FL:372:THR:OG1	2.20	0.42
42:FM:319:TYR:HB2	42:FM:355:ILE:HD13	2.00	0.42
41:GD:109:GLY:O	41:GD:110:ALA:C	2.58	0.42
41:GH:304:ASP:OD2	41:GH:304:ASP:N	2.49	0.42
42:GI:351:PHE:N	41:GJ:179:VAL:HG12	2.33	0.42
41:GJ:254:ALA:O	41:GJ:258:VAL:HG22	2.20	0.42
42:GK:316:CYS:N	42:GK:378:LEU:O	2.47	0.42
41:HD:86:ARG:CZ	41:HD:86:ARG:HB3	2.48	0.42
41:HD:233:MET:O	41:HD:234:SER:C	2.58	0.42
41:HD:293:MET:HG3	41:HD:367:PHE:HB2	2.01	0.42
42:HE:123:ARG:HA	42:HE:161:TYR:OH	2.20	0.42
41:HF:209:ASP:O	41:HF:213:ARG:HG2	2.20	0.42
41:HF:266:PHE:HB3	41:HF:370:ASN:HA	2.01	0.42
41:HH:51:TYR:HB3	41:HH:59:TYR:HB3	2.00	0.42
41:HH:58:LYS:NZ	41:IH:280:GLN:HB3	2.35	0.42
41:HH:117:LEU:HD12	41:HH:154:LYS:HG2	2.02	0.42
42:HI:213:CYS:HA	42:HI:217:LEU:HD12	2.02	0.42
41:HJ:149:THR:O	41:HJ:152:ILE:HG12	2.20	0.42
41:HL:3:GLU:N	41:HL:3:GLU:OE2	2.53	0.42
42:HM:205:ASP:O	42:HM:209:ILE:HG13	2.19	0.42
42:HM:320:ARG:HD3	42:HM:360:PRO:HG3	2.01	0.42
42:IC:135:PHE:HB2	42:IC:166:LYS:HE2	2.01	0.42
42:IE:141:PHE:HB2	42:IE:173:PRO:HD3	2.01	0.42
42:IE:164:LYS:H	42:IE:164:LYS:HG2	1.61	0.42
42:IE:257:THR:HG21	41:IF:98:GLY:O	2.20	0.42
41:IF:46:ARG:HH21	42:IG:73:THR:HA	1.84	0.42
41:IF:266:PHE:HE1	41:IF:370:ASN:HD22	1.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:IG:202:PHE:HZ	42:IG:255:PHE:HE2	1.68	0.42
41:IH:87:PRO:HD3	42:JG:283:HIS:ND1	2.35	0.42
41:IH:252:LYS:HA	41:IH:255:VAL:HG22	2.01	0.42
41:IN:16:ILE:N	41:IN:226:ASN:HD21	2.18	0.42
42:JC:154:MET:HG3	42:JC:194:THR:HG22	2.00	0.42
42:JE:167:LEU:HD23	42:JE:202:PHE:HE2	1.85	0.42
41:JH:271:ALA:HB2	41:JH:293:MET:SD	2.60	0.42
42:JI:195:LEU:HD21	42:JI:428:LEU:HD22	2.00	0.42
42:JK:31:GLN:HB2	42:JK:31:GLN:HE21	1.61	0.42
42:JK:88:HIS:O	42:JK:89:PRO:C	2.58	0.42
42:JK:250:VAL:HG13	42:JK:254:GLU:OE1	2.19	0.42
42:JM:114:LEU:HD23	42:JM:114:LEU:HA	1.76	0.42
42:JM:136:LEU:H	42:JM:136:LEU:HG	1.62	0.42
42:JM:253:THR:HA	42:JM:256:GLN:HG3	2.02	0.42
42:JM:428:LEU:HD12	42:JM:428:LEU:HA	1.90	0.42
42:KE:339:ARG:HA	42:KE:339:ARG:HD3	1.78	0.42
42:KI:386:GLU:HG3	42:KI:390:ARG:NH2	2.35	0.42
41:KJ:311:LEU:HD23	41:KJ:342:VAL:HG11	2.00	0.42
41:LF:52:ASN:HB2	41:LF:60:VAL:HG23	2.01	0.42
41:LF:263:LEU:HD23	41:LF:311:LEU:HD13	2.01	0.42
42:LG:147:SER:HB2	42:LG:190:THR:HB	2.01	0.42
42:LI:238:ILE:HG12	42:LI:378:LEU:HD11	2.01	0.42
42:LI:388:TRP:HB3	42:LI:425:MET:HE1	2.01	0.42
41:LJ:132:GLY:HA3	41:LJ:163:ILE:HG22	2.00	0.42
42:LK:276:ILE:HD11	42:LK:286:LEU:HD11	2.02	0.42
42:LM:326:LYS:HB3	42:LM:326:LYS:HE2	1.71	0.42
41:MF:42:LEU:H	41:MF:42:LEU:HG	1.48	0.42
41:MF:136:THR:HG22	41:MF:167:PHE:HB2	2.01	0.42
41:MF:237:THR:HA	41:MF:240:LEU:HD21	2.02	0.42
42:MG:16:ILE:HG12	42:MG:228:ASN:HD21	1.84	0.42
42:MG:242:LEU:HA	42:MG:242:LEU:HD23	1.84	0.42
42:MK:172:TYR:N	42:MK:204:VAL:O	2.52	0.42
42:MK:255:PHE:HB3	42:MK:259:LEU:HD12	2.01	0.42
41:ML:4:ILE:HG22	41:ML:132:GLY:N	2.34	0.42
41:ML:224:ASP:HA	41:ML:227:HIS:ND1	2.34	0.42
42:MM:362:VAL:HB	42:MM:370:LYS:NZ	2.35	0.42
42:NA:90:GLU:HG2	42:NA:91:GLN:N	2.34	0.42
41:NB:2:ARG:H	41:NB:2:ARG:HG3	1.38	0.42
42:NC:75:ILE:HB	42:NC:94:THR:HG23	2.00	0.42
42:NC:212:ILE:HD13	42:NC:302:MET:HG3	2.01	0.42
42:NE:141:PHE:HB2	42:NE:173:PRO:HD3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:NF:331:LEU:O	41:NF:332:ASN:C	2.57	0.42
42:NK:102:ASN:C	42:NK:104:ALA:N	2.72	0.42
42:NK:104:ALA:HA	42:NK:108:TYR:HD2	1.85	0.42
42:NK:254:GLU:O	42:NK:255:PHE:C	2.58	0.42
41:NL:392:LYS:HD2	41:NL:392:LYS:O	2.19	0.42
41:OB:259:PRO:O	42:OC:406:HIS:HE1	2.03	0.42
42:OG:132:LEU:HD22	42:OG:132:LEU:HA	1.74	0.42
41:OH:406:MET:O	41:OH:407:GLU:C	2.56	0.42
41:OJ:305:PRO:HB3	41:OJ:310:TYR:HE1	1.84	0.42
41:OL:7:LEU:HG	41:OL:64:VAL:HG23	2.02	0.42
41:OL:316:VAL:HG13	41:OL:368:ILE:HD13	2.02	0.42
41:PD:230:SER:HA	41:PD:233:MET:HG3	2.01	0.42
42:PG:88:HIS:CG	42:PG:89:PRO:HD2	2.55	0.42
41:PH:1:MET:O	41:PH:2:ARG:C	2.58	0.42
41:PH:49:VAL:C	41:PH:51:TYR:H	2.22	0.42
42:PI:216:ASN:ND2	42:PI:275:VAL:HB	2.34	0.42
42:PI:396:ASP:OD1	42:PI:396:ASP:N	2.50	0.42
41:PJ:97:ALA:O	41:PJ:99:ASN:N	2.53	0.42
41:PJ:329:GLN:O	41:PJ:332:ASN:N	2.53	0.42
41:PJ:408:PHE:O	41:PJ:409:THR:C	2.55	0.42
41:PL:238:THR:OG1	41:PL:239:CYS:N	2.53	0.42
41:QB:130:LEU:HD21	41:QB:133:PHE:CE2	2.55	0.42
42:QG:200:CYS:N	42:QG:266:HIS:HB2	2.35	0.42
41:QH:194:GLU:H	41:QH:194:GLU:HG3	1.42	0.42
42:QI:196:GLU:H	42:QI:196:GLU:HG3	1.61	0.42
41:QJ:198:GLU:OE2	41:QJ:253:LEU:HD22	2.19	0.42
41:QL:73:MET:HE1	41:QL:92:PHE:HA	2.02	0.42
41:QL:73:MET:HE2	41:QL:73:MET:HB2	1.69	0.42
41:QL:300:MET:HB3	41:QL:301:ALA:H	1.41	0.42
41:QL:317:PHE:HD2	41:QL:353:VAL:HG13	1.85	0.42
41:RD:177:ASP:HB2	43:RD:501:GDP:O3'	2.19	0.42
41:RD:325:GLU:O	41:RD:326:VAL:C	2.57	0.42
42:RE:141:PHE:HB2	42:RE:173:PRO:HD3	2.01	0.42
41:RF:146:GLY:O	41:RF:149:THR:OG1	2.36	0.42
41:RH:337:ASN:O	41:RH:339:SER:N	2.49	0.42
41:RH:358:PRO:HB2	41:RH:361:LEU:HB2	2.01	0.42
41:RJ:4:ILE:HB	41:RJ:50:TYR:CE1	2.54	0.42
41:RJ:254:ALA:O	41:RJ:257:MET:N	2.52	0.42
41:RJ:276:ARG:H	41:RJ:276:ARG:HG2	1.55	0.42
41:RJ:350:LYS:HA	41:RJ:350:LYS:HD2	1.70	0.42
42:SC:326:LYS:HB2	41:SD:208:TYR:HE1	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:SD:62:ARG:NH1	41:SD:123:GLU:O	2.49	0.42
42:SE:319:TYR:HD1	42:SE:323:VAL:HG11	1.85	0.42
42:SE:332:ILE:O	42:SE:335:ILE:HG12	2.20	0.42
41:SF:318:ARG:HB3	41:SF:358:PRO:HD3	2.02	0.42
42:SG:2:ARG:HA	42:SG:133:GLN:HE22	1.84	0.42
41:SH:6:HIS:CE1	41:SH:8:GLN:HB3	2.55	0.42
42:SI:261:PRO:HB3	42:SI:346:TRP:CH2	2.55	0.42
42:SK:70:LEU:O	42:SK:98:ASP:HA	2.19	0.42
42:SK:271:THR:HA	42:SK:302:MET:HG2	2.01	0.42
41:SL:31:ASP:O	41:SL:32:PRO:C	2.58	0.42
42:SM:64:ARG:HE	42:SM:128:GLN:HE22	1.68	0.42
42:SM:226:ASN:C	42:SM:226:ASN:HD22	2.22	0.42
42:SM:370:LYS:HD3	42:SM:372:GLN:H	1.84	0.42
42:TE:207:GLU:HB3	42:TE:304:LYS:HD3	2.01	0.42
42:TE:225:THR:O	42:TE:229:ARG:HG2	2.19	0.42
41:TF:226:ASN:HA	41:TF:229:VAL:HG12	2.01	0.42
41:TH:132:GLY:HA2	41:TH:162:ARG:HB3	2.02	0.42
41:TH:300:MET:HE2	41:TH:300:MET:HB2	1.69	0.42
42:TI:202:PHE:HA	42:TI:268:PRO:HD2	2.01	0.42
42:TI:225:THR:O	42:TI:228:ASN:ND2	2.50	0.42
42:TI:293:ASN:HB3	42:TI:335:ILE:HD11	2.02	0.42
42:TK:156:ARG:HD2	42:TK:156:ARG:HA	1.85	0.42
42:TK:328:VAL:HG11	42:TK:353:VAL:HG11	2.00	0.42
42:TM:260:VAL:HA	42:TM:261:PRO:HD2	1.94	0.42
42:TM:267:PHE:HE2	42:TM:384:ILE:CD1	2.33	0.42
42:UC:145:THR:HG23	45:UC:501:GTP:O2B	2.19	0.42
42:UC:274:PRO:HD3	42:UC:374:ALA:HA	2.02	0.42
41:UD:297:LYS:HE2	41:UD:297:LYS:HB2	1.85	0.42
41:UF:318:ARG:NH1	41:UF:358:PRO:HG3	2.34	0.42
41:UH:133:PHE:HB2	41:UH:164:MET:SD	2.60	0.42
42:UI:257:THR:HA	41:UJ:397:TRP:CH2	2.55	0.42
42:UK:191:THR:O	42:UK:195:LEU:HD23	2.20	0.42
42:UK:196:GLU:HG3	42:UK:197:HIS:CE1	2.54	0.42
42:UK:326:LYS:O	42:UK:327:ASP:C	2.58	0.42
41:UL:174:LYS:HB2	41:UL:174:LYS:HE3	1.90	0.42
41:UL:188:SER:C	41:UL:190:HIS:H	2.23	0.42
42:UM:30:ILE:HD12	42:UM:53:PHE:HD1	1.83	0.42
42:UM:405:VAL:HA	42:UM:408:TYR:HB2	2.02	0.42
41:VF:193:VAL:HA	41:VF:264:HIS:CE1	2.55	0.42
41:VH:62:ARG:NH1	41:VH:127:CYS:SG	2.93	0.42
41:VH:135:LEU:HB3	41:VH:166:THR:HG22	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:VL:288:GLU:O	41:VL:291:GLN:HG3	2.20	0.42
42:WE:115:ILE:HD12	42:WE:115:ILE:HA	1.95	0.42
42:WG:218:ASP:O	42:WG:220:GLU:N	2.53	0.42
42:WG:248:LEU:HD22	42:WG:353:VAL:HG23	2.00	0.42
42:WI:327:ASP:OD1	42:WI:327:ASP:N	2.53	0.42
42:WK:352:LYS:HD2	41:WL:177:ASP:O	2.19	0.42
41:WL:131:GLN:HG3	41:WL:163:ILE:HD11	2.02	0.42
41:WN:139:LEU:HD22	41:WN:170:VAL:HG23	2.01	0.42
9:2D:310:LYS:HE3	42:IE:285:GLN:HB3	2.02	0.42
14:2V:251:THR:OG1	42:LC:434:GLU:OE1	2.25	0.42
19:3J:422:TYR:CE2	19:3J:490:PHE:HB3	2.55	0.42
19:3L:136:PRO:O	19:3L:145:GLN:NE2	2.51	0.42
20:3N:11:HIS:H	41:KD:73:MET:N	2.13	0.42
20:3N:19:ARG:HB2	41:KD:92:PHE:CE2	2.54	0.42
20:3N:101:VAL:HG22	20:3N:117:ILE:HB	2.00	0.42
20:3O:214:LYS:HD2	20:3O:345:PHE:CZ	2.54	0.42
22:3X:254:THR:O	22:3X:258:LEU:N	2.49	0.42
22:4A:194:SER:HB3	22:4A:198:VAL:HB	2.02	0.42
23:4D:33:LEU:HD12	41:UJ:280:GLN:HE22	1.84	0.42
25:4I:61:PHE:HB3	25:4I:64:ASN:HB2	2.02	0.42
25:4J:96:ALA:HB3	25:4J:161:MET:HB2	2.02	0.42
26:4K:295:LYS:HD3	26:4K:295:LYS:HA	1.84	0.42
26:4L:247:ARG:HH21	26:4L:248:LEU:CD2	2.32	0.42
27:4R:190:TYR:O	27:4R:194:LEU:HB2	2.20	0.42
27:4S:132:HIS:NE2	27:4S:171:VAL:HG12	2.35	0.42
30:5A:200:ASN:HA	30:5A:203:THR:HG22	2.01	0.42
30:5B:369:PHE:HZ	41:LN:279:GLN:HE21	1.68	0.42
32:5M:351:LEU:HD21	32:5N:48:ILE:HG13	2.01	0.42
32:5N:125:ILE:HD12	32:5O:11:PHE:CE1	2.54	0.42
32:5N:288:GLU:HG3	32:5O:31:ARG:HG2	2.01	0.42
32:5O:259:VAL:O	32:5O:260:VAL:C	2.58	0.42
33:5R:7:LYS:NZ	35:6R:329:ILE:HG21	2.31	0.42
33:5S:19:THR:OG1	33:5S:20:ASN:N	2.52	0.42
34:6B:293:THR:HA	34:6C:413:ARG:CZ	2.50	0.42
34:6B:456:GLU:O	34:6B:459:LEU:N	2.49	0.42
34:6C:239:LYS:HE3	34:6C:239:LYS:HB2	1.49	0.42
34:6D:360:LYS:HZ2	34:6D:360:LYS:HG2	1.75	0.42
34:6M:373:PHE:O	34:6M:376:GLU:HG2	2.20	0.42
35:6Q:360:ARG:O	35:6Q:363:ARG:NE	2.53	0.42
35:6S:148:PRO:HA	35:6S:437:TYR:HE2	1.84	0.42
35:6S:174:ILE:HG22	35:6S:178:LYS:HD3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:6U:157:GLN:HG2	35:6U:161:ARG:NH2	2.35	0.42
35:6V:53:LEU:HA	35:6V:53:LEU:HD23	1.72	0.42
35:6V:356:ARG:O	35:6V:360:ARG:HG3	2.20	0.42
37:7C:140:ALA:HB3	42:TK:340:THR:HB	2.01	0.42
38:7H:208:GLU:HA	38:7H:209:PRO:HD3	1.91	0.42
41:AD:139:LEU:HD22	41:AD:188:SER:HB3	2.01	0.42
41:AD:256:ASN:CB	42:AE:404:PHE:HD1	2.32	0.42
42:AE:79:ARG:HH22	42:AE:94:THR:HB	1.85	0.42
42:AG:164:LYS:HB2	42:AG:164:LYS:HE2	1.73	0.42
41:AH:273:LEU:HB2	41:AH:292:GLN:NE2	2.35	0.42
42:AI:63:PRO:HD3	42:AI:86:LEU:HG	2.01	0.42
42:AI:73:THR:OG1	42:AI:74:VAL:N	2.52	0.42
42:AI:92:LEU:HD12	42:AI:92:LEU:HA	1.85	0.42
42:AI:334:THR:O	42:AI:338:LYS:HG2	2.20	0.42
41:BD:138:SER:O	41:BD:140:GLY:N	2.53	0.42
42:BG:1:MET:N	42:BG:3:GLU:OE2	2.53	0.42
41:BH:131:GLN:HE21	41:BH:250:LEU:HB2	1.84	0.42
42:BI:75:ILE:HD13	42:BI:75:ILE:HA	1.71	0.42
42:BI:319:TYR:CZ	42:BI:328:VAL:HG13	2.54	0.42
42:BK:155:GLU:OE2	42:BK:197:HIS:NE2	2.52	0.42
42:CC:27:GLU:HB3	42:CC:244:PHE:HZ	1.85	0.42
42:CC:114:LEU:HB3	42:CC:149:PHE:CZ	2.54	0.42
41:CD:1:MET:O	41:CD:2:ARG:C	2.58	0.42
41:CF:47:ILE:HG21	41:CF:59:TYR:CE1	2.55	0.42
41:CF:57:GLY:O	41:CF:59:TYR:N	2.52	0.42
42:CG:175:PRO:HG3	42:CG:304:LYS:HG2	2.00	0.42
42:CK:208:ALA:O	42:CK:212:ILE:HG12	2.19	0.42
41:CL:142:GLY:O	41:CL:146:GLY:N	2.53	0.42
41:CL:282:ARG:NH2	41:CL:288:GLU:OE1	2.53	0.42
42:CM:184:PRO:HA	42:CM:391:LEU:HD11	2.02	0.42
41:DB:334:GLN:HG2	41:DB:341:PHE:CD1	2.54	0.42
42:DC:33:ASP:OD1	42:DC:34:GLY:N	2.52	0.42
42:DC:428:LEU:HD12	42:DC:428:LEU:HA	1.92	0.42
41:DH:142:GLY:O	41:DH:143:THR:C	2.57	0.42
41:DH:292:GLN:HA	41:DH:295:ASP:OD2	2.20	0.42
42:DI:7:VAL:CG2	42:DI:137:ILE:HG13	2.49	0.42
41:DJ:207:LEU:HA	41:DJ:210:ILE:HD12	2.02	0.42
41:DJ:261:PRO:HD3	42:DK:406:HIS:CD2	2.55	0.42
42:DK:109:THR:HG23	42:DK:110:ILE:N	2.34	0.42
42:DK:167:LEU:HA	42:DK:199:ASP:O	2.20	0.42
42:DK:276:ILE:HD12	42:DK:276:ILE:HA	1.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:ED:212:PHE:HD1	41:ED:212:PHE:HA	1.68	0.42
41:ED:293:MET:HE2	41:ED:293:MET:HB2	1.86	0.42
42:EE:2:ARG:H	42:EE:2:ARG:HG3	1.64	0.42
42:EG:12:ALA:HA	45:EG:501:GTP:N7	2.34	0.42
42:EG:205:ASP:O	42:EG:206:ASN:C	2.57	0.42
42:EG:403:ALA:C	42:EG:405:VAL:H	2.21	0.42
41:EH:284:LEU:HD23	41:EH:286:VAL:H	1.85	0.42
42:EI:7:VAL:HB	42:EI:137:ILE:HG12	2.01	0.42
42:EK:389:ALA:O	42:EK:392:ASP:N	2.51	0.42
41:EL:268:PRO:HA	41:EL:367:PHE:O	2.20	0.42
42:EM:70:LEU:HA	42:EM:95:GLY:H	1.84	0.42
42:FE:212:ILE:HD12	42:FE:215:ARG:HH21	1.84	0.42
42:FG:154:MET:O	42:FG:158:SER:N	2.49	0.42
42:FG:166:LYS:HD3	42:FG:166:LYS:HA	1.84	0.42
41:FH:36:TYR:OH	41:FH:40:SER:O	2.36	0.42
41:FH:274:THR:HG21	41:FH:282:ARG:HD3	2.00	0.42
41:FH:323:MET:HB2	42:FI:223:THR:O	2.20	0.42
42:FI:219:ILE:HD11	42:FI:226:ASN:ND2	2.35	0.42
42:FI:248:LEU:HD22	42:FI:353:VAL:HG23	2.01	0.42
42:FK:99:ALA:O	42:FK:101:ASN:N	2.53	0.42
42:FK:360:PRO:HG3	42:FK:374:ALA:HB2	2.01	0.42
41:FL:283:ALA:O	41:FL:284:LEU:C	2.58	0.42
42:FM:70:LEU:HA	42:FM:70:LEU:HD23	1.78	0.42
41:GF:237:THR:HG23	41:GF:241:ARG:HH12	1.84	0.42
42:GG:95:GLY:HA2	42:GG:114:LEU:HD11	2.00	0.42
42:GG:387:ALA:HA	42:GG:390:ARG:NH2	2.33	0.42
41:GH:64:VAL:HA	41:GH:89:ASN:OD1	2.20	0.42
42:GI:30:ILE:HA	42:GI:37:PRO:HD2	2.02	0.42
41:GJ:33:THR:OG1	41:GJ:34:GLY:N	2.51	0.42
42:GM:56:THR:HG23	42:GM:57:GLY:H	1.84	0.42
41:HD:310:TYR:CD1	41:HD:371:SER:HB2	2.55	0.42
42:HE:18:ASN:ND2	42:HE:78:VAL:HG22	2.34	0.42
42:HE:269:LEU:HD22	42:HE:303:VAL:HG11	2.02	0.42
41:HF:152:ILE:HG22	41:HF:195:ASN:HB3	2.02	0.42
41:HF:252:LYS:CG	42:HG:100:ALA:HA	2.50	0.42
42:HG:266:HIS:ND1	42:HG:266:HIS:O	2.52	0.42
41:HH:136:THR:HG22	41:HH:167:PHE:HB2	2.02	0.42
42:HI:125:LEU:HD12	42:HI:125:LEU:HA	1.69	0.42
42:HK:110:ILE:H	42:HK:110:ILE:HD12	1.84	0.42
42:HM:79:ARG:HH22	42:HM:94:THR:HG21	1.85	0.42
42:IE:141:PHE:CB	42:IE:173:PRO:HD3	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:IE:225:THR:OG1	42:IE:226:ASN:N	2.53	0.42
41:IF:381:ILE:O	41:IF:385:PHE:N	2.50	0.42
42:II:290:GLU:HA	42:II:293:ASN:HB2	2.00	0.42
41:IJ:204:ASN:OD1	43:IJ:501:GDP:O2'	2.37	0.42
41:IL:140:GLY:HA2	41:IL:181:GLU:HG2	2.02	0.42
41:IN:2:ARG:HB2	41:IN:131:GLN:HB2	2.02	0.42
41:IN:399:THR:O	41:IN:401:GLU:N	2.49	0.42
42:JE:172:TYR:CD1	42:JE:173:PRO:HD2	2.55	0.42
42:JE:210:TYR:CE1	42:JE:227:LEU:HD22	2.54	0.42
42:JE:263:PRO:HD3	41:JF:396:HIS:CD2	2.55	0.42
42:JE:351:PHE:N	41:JF:179:VAL:HG22	2.35	0.42
42:JG:88:HIS:HE1	42:MG:284:GLU:HG2	1.84	0.42
41:JH:142:GLY:N	43:JH:501:GDP:O3B	2.44	0.42
41:JH:372:THR:HG21	41:JH:426:GLN:HB3	2.02	0.42
42:JK:162:GLY:O	42:JK:164:LYS:N	2.53	0.42
42:JK:397:LEU:HD12	42:JK:397:LEU:HA	1.93	0.42
41:JL:193:VAL:HG12	41:JL:265:PHE:HE2	1.84	0.42
42:JM:211:ASP:O	42:JM:215:ARG:HG3	2.20	0.42
41:KF:252:LYS:HA	41:KF:255:VAL:HG12	2.01	0.42
42:KG:265:ILE:HD11	42:KG:431:ASP:HB3	2.02	0.42
42:KI:9:VAL:HG13	42:KI:139:HIS:HB3	2.01	0.42
42:KI:160:ASP:OD1	42:KI:161:TYR:N	2.52	0.42
42:KI:258:ASN:ND2	42:KI:352:LYS:HD2	2.33	0.42
41:LD:19:LYS:HE2	41:LD:19:LYS:HB2	1.64	0.42
41:MD:152:ILE:HG23	41:MD:195:ASN:HB3	2.00	0.42
41:MD:258:VAL:HG13	41:MD:266:PHE:CZ	2.55	0.42
41:MF:189:VAL:O	41:MF:192:LEU:N	2.52	0.42
41:MF:393:ALA:C	41:MF:395:LEU:H	2.23	0.42
41:ML:102:ALA:HB2	41:ML:403:MET:HE2	2.00	0.42
41:ML:376:GLU:HG2	41:ML:380:ARG:HG3	2.02	0.42
42:MM:323:VAL:HG23	42:MM:355:ILE:HG23	2.01	0.42
41:MN:248:ALA:HB1	41:MN:253:LEU:CD2	2.47	0.42
42:NA:311:LYS:H	42:NA:311:LYS:HG2	1.64	0.42
41:NB:74:ASP:N	41:NB:74:ASP:OD1	2.53	0.42
41:NB:225:LEU:H	41:NB:225:LEU:HG	1.61	0.42
42:NC:262:TYR:CE1	42:NC:435:VAL:HG13	2.54	0.42
42:NE:123:ARG:HH22	42:OE:297:GLU:HG3	1.84	0.42
41:NF:270:PHE:HD1	41:NF:270:PHE:HA	1.77	0.42
42:NG:73:THR:OG1	42:NG:74:VAL:N	2.53	0.42
42:NG:274:PRO:HD3	42:NG:374:ALA:HA	2.01	0.42
41:NH:8:GLN:H	41:NH:8:GLN:HG2	1.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:NH:310:TYR:HA	41:NH:371:SER:HA	2.01	0.42
42:NI:31:GLN:H	42:NI:31:GLN:HG2	1.57	0.42
42:NI:60:LYS:HG2	42:OI:282:TYR:CD2	2.55	0.42
42:NI:139:HIS:HB3	42:NI:150:THR:HG21	2.02	0.42
42:NI:317:LEU:HB3	42:NI:319:TYR:CE1	2.54	0.42
41:NJ:263:LEU:HD22	41:NJ:422:TYR:CD2	2.54	0.42
42:NK:133:GLN:HE22	42:NK:242:LEU:HD13	1.84	0.42
42:NK:422:ARG:HA	42:NK:422:ARG:HD2	1.36	0.42
41:NL:192:LEU:O	41:NL:196:THR:HG22	2.20	0.42
42:OA:269:LEU:HD21	42:OA:384:ILE:HD12	2.01	0.42
41:OB:187:LEU:HD21	41:OB:408:PHE:CZ	2.55	0.42
41:OB:362:LYS:HA	41:OB:362:LYS:HD2	1.74	0.42
41:OD:314:ALA:HA	41:OD:350:LYS:HB3	2.02	0.42
41:OD:403:MET:HG2	41:OD:408:PHE:CE1	2.55	0.42
42:OE:211:ASP:O	42:OE:215:ARG:HG2	2.20	0.42
42:OE:266:HIS:O	42:OE:268:PRO:HD3	2.19	0.42
41:OH:62:ARG:HA	41:OH:86:ARG:HH12	1.85	0.42
41:OH:146:GLY:O	41:OH:147:MET:C	2.57	0.42
41:OL:54:ALA:HB3	41:OL:58:LYS:HB3	2.01	0.42
42:PA:6:SER:HB3	42:PA:138:PHE:HE2	1.84	0.42
42:PA:85:GLN:HE21	42:PA:85:GLN:HB3	1.52	0.42
42:PA:169:PHE:HZ	42:PA:238:ILE:HG21	1.85	0.42
41:PB:45:GLU:H	41:PB:45:GLU:HG2	1.52	0.42
42:PE:21:TRP:CZ3	42:PE:63:PRO:HB3	2.55	0.42
42:PE:114:LEU:O	42:PE:115:ILE:C	2.57	0.42
41:PF:36:TYR:CE1	41:PF:38:GLY:HA3	2.55	0.42
41:PF:47:ILE:HD12	41:PF:47:ILE:HA	1.81	0.42
41:PF:303:CYS:SG	41:PF:377:LEU:HB2	2.60	0.42
42:PG:60:LYS:HD3	42:PG:85:GLN:O	2.20	0.42
41:PH:144:GLY:O	41:PH:145:SER:C	2.57	0.42
42:PI:52:PHE:HE1	42:PI:243:ARG:HD3	1.85	0.42
42:PI:324:VAL:HB	42:PI:327:ASP:CG	2.40	0.42
41:PJ:53:GLU:HA	41:PJ:59:TYR:HD1	1.85	0.42
42:PK:425:MET:HE2	42:PK:425:MET:HB3	1.98	0.42
42:QC:191:THR:HG21	42:QC:388:TRP:HZ3	1.84	0.42
42:QG:62:VAL:HA	42:QG:63:PRO:HD3	1.84	0.42
42:QG:238:ILE:HD11	42:QG:378:LEU:HD11	2.01	0.42
42:QG:260:VAL:HB	41:QH:397:TRP:HH2	1.85	0.42
41:QH:54:ALA:HB3	41:QH:58:LYS:HB3	2.01	0.42
41:QH:207:LEU:HD21	41:QH:225:LEU:HB2	2.01	0.42
41:QJ:21:TRP:CZ2	41:QJ:63:ALA:HB2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:QK:124:LYS:HD3	42:QK:124:LYS:HA	1.91	0.42
41:QL:40:SER:HB2	41:QL:43:GLN:HG3	2.01	0.42
41:QL:240:LEU:HD22	41:QL:240:LEU:HA	1.85	0.42
42:RC:139:HIS:CE1	42:RC:170:SER:HB3	2.54	0.42
42:RC:217:LEU:HB2	42:RC:219:ILE:HG22	2.01	0.42
41:RD:21:TRP:HA	41:RD:21:TRP:CE3	2.54	0.42
41:RD:289:LEU:HD22	41:RD:364:SER:HA	2.02	0.42
41:RD:380:ARG:HB2	41:RD:380:ARG:HH21	1.85	0.42
41:RF:79:GLY:O	41:RF:80:PRO:C	2.58	0.42
42:RG:71:GLU:HB3	42:RG:98:ASP:HB3	2.00	0.42
42:RG:88:HIS:ND1	42:SG:283:HIS:O	2.53	0.42
42:RG:240:ALA:O	42:RG:356:ASN:ND2	2.53	0.42
42:RG:297:GLU:HA	42:RG:298:PRO:HD2	1.91	0.42
42:RI:98:ASP:OD1	42:RI:99:ALA:N	2.45	0.42
42:RI:109:THR:O	42:RI:112:LYS:NZ	2.34	0.42
41:RJ:103:LYS:HB3	41:RJ:107:THR:CB	2.49	0.42
41:RJ:156:ARG:HH12	41:RJ:196:THR:N	2.18	0.42
42:RK:208:ALA:O	42:RK:212:ILE:HG12	2.20	0.42
42:SC:121:ARG:NH1	42:SC:124:LYS:HD3	2.34	0.42
41:SD:258:VAL:HG23	42:SE:407:TRP:HE1	1.85	0.42
42:SE:110:ILE:H	42:SE:110:ILE:HG13	1.58	0.42
42:SE:339:ARG:H	42:SE:339:ARG:HG2	1.47	0.42
41:SF:406:MET:O	41:SF:409:THR:N	2.51	0.42
41:SH:358:PRO:HB2	41:SH:361:LEU:HB2	2.02	0.42
42:SI:47:ASP:O	42:SI:49:PHE:N	2.52	0.42
42:SI:188:ILE:H	42:SI:188:ILE:HG12	1.59	0.42
42:SK:3:GLU:CD	42:SK:129:CYS:HB3	2.40	0.42
42:SK:271:THR:HB	42:SK:377:MET:HB3	2.01	0.42
41:SL:210:ILE:HG22	41:SL:215:LEU:HD22	2.02	0.42
41:SL:303:CYS:O	41:SL:304:ASP:C	2.58	0.42
42:SM:239:THR:HG22	42:SM:242:LEU:HD11	2.02	0.42
42:SM:320:ARG:HG3	42:SM:321:GLY:H	1.85	0.42
42:TC:385:ALA:HA	42:TC:388:TRP:HB2	2.01	0.42
41:TD:43:GLN:OE1	41:TD:359:ARG:NH2	2.53	0.42
42:TE:31:GLN:HG2	42:TE:32:PRO:HD2	2.00	0.42
42:TE:207:GLU:O	42:TE:210:TYR:HB3	2.19	0.42
42:TG:32:PRO:HG3	42:TG:83:TYR:HE1	1.85	0.42
41:TH:358:PRO:HG2	41:TH:364:SER:HB3	2.02	0.42
42:TK:69:ASP:HA	42:TK:145:THR:HG21	2.02	0.42
42:TK:208:ALA:HB2	42:TK:304:LYS:HD3	2.00	0.42
42:TK:265:ILE:H	42:TK:265:ILE:HG12	1.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:TK:273:ALA:HB1	42:TK:291:ILE:HB	2.02	0.42
41:TL:3:GLU:HB3	41:TL:130:LEU:HA	2.01	0.42
42:TM:171:ILE:HD13	45:TM:501:GTP:HN22	1.83	0.42
42:TM:307:PRO:HA	42:TM:383:ALA:HB2	2.02	0.42
42:UC:261:PRO:HA	41:UD:394:PHE:CE1	2.54	0.42
41:UD:25:SER:O	41:UD:30:ILE:N	2.53	0.42
41:UD:271:ALA:HB1	41:UD:289:LEU:HD22	2.02	0.42
42:UE:177:VAL:HG12	42:UE:207:GLU:OE2	2.19	0.42
41:UF:238:THR:HG22	41:UF:241:ARG:HH22	1.85	0.42
41:UF:255:VAL:HA	42:UG:407:TRP:NE1	2.35	0.42
41:UH:334:GLN:OE1	41:UH:348:ASN:N	2.51	0.42
42:UI:320:ARG:HD3	42:UI:360:PRO:HG3	2.02	0.42
41:UL:141:GLY:O	41:UL:145:SER:OG	2.33	0.42
42:UM:71:GLU:HB2	42:UM:98:ASP:HA	2.02	0.42
41:VD:270:PHE:O	41:VD:298:ASN:ND2	2.52	0.42
41:VD:395:LEU:HD23	41:VD:398:TYR:CD2	2.47	0.42
41:VF:52:ASN:HB3	41:VF:53:GLU:H	1.75	0.42
42:WC:51:THR:HG21	42:WC:243:ARG:HB3	2.01	0.42
42:WE:250:VAL:HG11	42:WE:318:LEU:CD2	2.46	0.42
41:WF:42:LEU:HA	41:WF:45:GLU:HG3	2.02	0.42
41:WL:324:LYS:CE	42:WM:214:ARG:HH11	2.33	0.42
41:WN:248:ALA:HB1	41:WN:253:LEU:HG	2.01	0.42
41:WN:296:ALA:HB3	41:WN:297:LYS:HD2	2.01	0.42
5:1O:61:TRP:CZ3	42:KG:382:THR:HG22	2.54	0.42
7:1U:6:TYR:OH	41:IL:52:ASN:HA	2.19	0.42
8:2A:108:TYR:CE2	42:AI:420:GLU:HG3	2.55	0.42
9:2D:348:ALA:H	42:IG:221:ARG:CZ	2.32	0.42
9:2D:575:ARG:HH21	41:IN:360:GLY:CA	2.25	0.42
19:3K:165:TRP:HA	19:3K:168:LEU:HD12	2.01	0.42
19:3K:428:SER:OG	19:3K:433:ASP:OD2	2.33	0.42
20:3Q:471:ARG:HA	20:3Q:489:LYS:HZ1	1.84	0.42
22:4A:184:TYR:CE2	41:CJ:47:ILE:HG22	2.55	0.42
22:4C:187:ARG:CZ	41:CF:57:GLY:HA2	2.49	0.42
23:4D:44:LYS:HA	23:4D:44:LYS:HD3	1.86	0.42
24:4G:469:PHE:CE2	24:4G:482:PHE:HZ	2.37	0.42
27:4O:56:PRO:HD3	41:AB:339:SER:OG	2.20	0.42
27:4T:49:LYS:HE3	41:KN:162:ARG:HH12	1.84	0.42
27:4T:222:GLY:HA2	27:4T:225:ILE:HB	2.01	0.42
32:5O:218:LEU:HD22	32:5O:218:LEU:HA	1.86	0.42
33:5V:275:LEU:HD12	33:5V:275:LEU:HA	1.83	0.42
34:6F:457:HIS:CG	34:6L:405:ARG:HD3	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:6K:160:ILE:HG21	34:6K:160:ILE:HD13	1.86	0.42
34:6L:403:ARG:HB3	34:6L:406:ARG:NH1	2.35	0.42
35:6P:106:ARG:HH12	35:6Q:363:ARG:HH11	1.68	0.42
35:6Q:116:GLU:OE2	35:6Q:119:ARG:NH2	2.52	0.42
35:6Q:360:ARG:HH21	35:6Q:374:GLN:HB2	1.85	0.42
35:6T:170:ASP:O	35:6T:174:ILE:HG12	2.20	0.42
35:6U:349:PRO:HA	35:6U:352:VAL:HG12	2.01	0.42
35:6W:41:LEU:O	35:6W:42:ALA:C	2.57	0.42
35:6W:115:SER:HA	35:6W:118:GLN:HB3	2.02	0.42
37:7C:127:ARG:NH1	41:TL:305:PRO:HD2	2.35	0.42
37:7E:164:LYS:HD3	41:NJ:121:ARG:HD2	2.02	0.42
39:7K:130:LYS:HB3	39:7K:130:LYS:HE2	1.88	0.42
41:AD:346:PRO:HG3	42:AE:397:LEU:HD11	2.01	0.42
42:AE:228:ASN:OD1	45:AE:501:GTP:N1	2.51	0.42
41:AF:6:HIS:HD1	41:AF:21:TRP:HE1	1.67	0.42
41:AF:132:GLY:HA3	41:AF:163:ILE:HG22	2.01	0.42
41:AH:222:TYR:HD1	41:AH:222:TYR:HA	1.77	0.42
41:AJ:97:ALA:HB2	41:AJ:143:THR:HG23	2.02	0.42
42:AK:156:ARG:HA	42:AK:156:ARG:HD2	1.89	0.42
42:AK:395:PHE:CD2	42:AK:422:ARG:HD3	2.54	0.42
41:AL:131:GLN:HG3	41:AL:240:LEU:HD21	2.01	0.42
41:BD:7:LEU:HD21	41:BD:120:VAL:HG22	2.02	0.42
41:BD:101:TRP:HZ3	41:BD:106:TYR:HE1	1.68	0.42
41:BD:318:ARG:HH11	41:BD:358:PRO:HD3	1.85	0.42
42:BE:252:LEU:HD12	42:BE:252:LEU:HA	1.82	0.42
42:BG:88:HIS:HB3	42:BG:91:GLN:HG3	2.02	0.42
41:BH:129:CYS:SG	42:BI:96:LYS:HB2	2.60	0.42
42:BI:138:PHE:CZ	42:BI:235:VAL:HG21	2.55	0.42
42:BK:349:THR:HG22	41:BL:384:GLN:HE21	1.84	0.42
41:BL:193:VAL:HG21	41:BL:262:ARG:HH21	1.85	0.42
42:CC:104:ALA:C	42:CC:106:GLY:H	2.23	0.42
42:CC:273:ALA:HB3	42:CC:274:PRO:HD3	2.01	0.42
41:CF:12:CYS:HB2	43:CF:501:GDP:C8	2.55	0.42
42:CG:206:ASN:OD1	45:CG:501:GTP:N2	2.53	0.42
42:CG:209:ILE:O	42:CG:212:ILE:HG12	2.20	0.42
42:CG:255:PHE:CZ	42:CG:378:LEU:HD13	2.54	0.42
42:CG:339:ARG:HD2	42:CG:339:ARG:HA	1.72	0.42
41:CH:313:VAL:O	41:CH:349:VAL:HA	2.20	0.42
42:CI:224:TYR:CD1	42:CI:227:LEU:HD12	2.54	0.42
41:CJ:130:LEU:HD12	41:CJ:130:LEU:HA	1.93	0.42
42:CM:329:ASN:HA	42:CM:332:ILE:HG22	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DB:3:GLU:HG3	41:DB:49:VAL:HA	2.01	0.42
41:DB:156:ARG:NE	41:DB:195:ASN:O	2.53	0.42
42:DE:171:ILE:HD13	45:DE:501:GTP:N3	2.34	0.42
41:DF:30:ILE:HD11	41:DF:47:ILE:HD11	2.01	0.42
42:DI:256:GLN:O	42:DI:260:VAL:HG22	2.19	0.42
41:DJ:35:THR:CA	41:EJ:281:TYR:CZ	3.03	0.42
41:DJ:225:LEU:O	41:DJ:229:VAL:HG23	2.20	0.42
42:DK:18:ASN:HD22	42:DK:18:ASN:HA	1.66	0.42
42:DK:401:LYS:O	42:DK:402:ARG:C	2.58	0.42
41:DL:84:ILE:H	41:DL:84:ILE:HG12	1.44	0.42
41:DL:273:LEU:HD23	41:DL:273:LEU:HA	1.75	0.42
42:EC:350:GLY:HA2	41:ED:179:VAL:HG13	2.01	0.42
41:ED:254:ALA:O	41:ED:257:MET:N	2.53	0.42
41:ED:325:GLU:O	41:ED:326:VAL:C	2.58	0.42
42:EE:218:ASP:O	42:EE:219:ILE:C	2.58	0.42
41:EF:250:LEU:O	41:EF:254:ALA:N	2.51	0.42
42:EI:336:LYS:HE2	42:EI:351:PHE:CD2	2.52	0.42
42:EK:136:LEU:HG	42:EK:169:PHE:CE2	2.48	0.42
42:EK:243:ARG:H	42:EK:243:ARG:HG2	1.65	0.42
42:EK:307:PRO:HA	42:EK:383:ALA:CB	2.50	0.42
41:EL:183:TYR:CD2	41:EL:398:TYR:HE2	2.38	0.42
42:EM:100:ALA:C	42:EM:102:ASN:N	2.73	0.42
42:EM:249:ASN:OD1	42:EM:249:ASN:N	2.51	0.42
42:EM:324:VAL:O	42:EM:325:PRO:C	2.58	0.42
41:FD:272:PRO:HG3	41:FD:364:SER:HA	2.01	0.42
41:FD:309:ARG:HH12	41:FD:342:VAL:HA	1.85	0.42
42:FE:139:HIS:CE1	42:FE:170:SER:HB2	2.55	0.42
41:FF:270:PHE:CD1	41:FF:273:LEU:HB3	2.55	0.42
41:FH:77:ARG:HH21	41:FH:92:PHE:HZ	1.67	0.42
41:FH:131:GLN:HA	41:FH:162:ARG:HH21	1.85	0.42
41:FH:243:PRO:HB3	42:FI:73:THR:HG22	2.02	0.42
41:FH:246:LEU:HD13	45:FI:501:GTP:C8	2.55	0.42
42:FI:167:LEU:HD13	42:FI:202:PHE:HE2	1.85	0.42
42:FI:227:LEU:O	42:FI:231:ILE:HG12	2.19	0.42
42:FI:286:LEU:O	42:FI:373:ARG:NH2	2.52	0.42
42:FK:135:PHE:O	42:FK:137:ILE:HG12	2.20	0.42
42:FK:274:PRO:HG3	42:FK:374:ALA:HA	2.01	0.42
42:FK:414:GLU:O	42:FK:416:GLY:N	2.52	0.42
41:FL:80:PRO:HB2	41:FL:81:PHE:H	1.63	0.42
41:FL:322:SER:CB	42:FM:221:ARG:HG2	2.49	0.42
42:FM:304:LYS:HA	42:FM:304:LYS:HD3	1.75	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:GC:315:CYS:SG	42:GC:316:CYS:N	2.93	0.42
41:GD:117:LEU:HB3	41:GD:121:ARG:CZ	2.49	0.42
41:GD:183:TYR:CZ	41:GD:388:MET:HB3	2.53	0.42
41:GD:221:THR:OG1	41:GD:222:TYR:N	2.53	0.42
41:GD:284:LEU:HG	41:GD:289:LEU:HD21	2.02	0.42
41:GH:183:TYR:HD1	41:GH:408:PHE:HE2	1.68	0.42
42:GI:31:GLN:HG3	42:GI:37:PRO:HD3	2.01	0.42
42:GK:405:VAL:HG13	42:GK:418:PHE:CE2	2.54	0.42
41:GL:132:GLY:HA3	41:GL:163:ILE:O	2.20	0.42
42:GM:115:ILE:HB	42:GM:152:LEU:HD13	2.02	0.42
42:GM:401:LYS:O	42:GM:402:ARG:C	2.58	0.42
42:HC:82:THR:OG1	42:HC:83:TYR:N	2.52	0.42
42:HC:143:GLY:HA3	45:HC:501:GTP:O3B	2.20	0.42
42:HE:93:ILE:HG22	42:HE:114:LEU:HD11	2.01	0.42
42:HG:21:TRP:CZ3	42:HG:52:PHE:HB3	2.55	0.42
42:HG:60:LYS:NZ	42:HG:85:GLN:OE1	2.53	0.42
42:HG:352:LYS:HD2	41:HH:178:THR:HA	2.02	0.42
42:HI:239:THR:O	42:HI:243:ARG:HG3	2.20	0.42
41:HJ:109:GLY:O	41:HJ:112:LEU:N	2.53	0.42
41:HL:214:THR:HG23	41:HL:215:LEU:HD12	2.02	0.42
41:HL:311:LEU:HD23	41:HL:342:VAL:HG11	2.01	0.42
41:HL:341:PHE:HB3	41:HL:348:ASN:HD21	1.85	0.42
42:HM:99:ALA:CB	42:HM:144:GLY:HA3	2.49	0.42
42:HM:169:PHE:HZ	42:HM:238:ILE:HG13	1.85	0.42
42:HM:175:PRO:HG2	42:HM:304:LYS:HB2	2.02	0.42
42:IG:298:PRO:HG3	42:IG:307:PRO:HD2	2.02	0.42
42:II:56:THR:HA	41:JH:283:ALA:HB2	2.02	0.42
41:IN:181:GLU:O	41:IN:183:TYR:N	2.53	0.42
41:JD:11:GLN:HG2	41:JD:72:THR:HG21	2.01	0.42
41:JD:190:HIS:ND1	41:JD:411:ALA:HA	2.34	0.42
41:JD:200:TYR:HE1	41:JD:266:PHE:HD2	1.66	0.42
41:JF:375:GLN:HG3	41:JF:423:GLN:OE1	2.20	0.42
42:JG:103:TYR:CE1	42:JG:148:GLY:HA2	2.55	0.42
42:JI:9:VAL:HG22	42:JI:68:VAL:HB	2.02	0.42
42:JI:52:PHE:HE2	42:JI:243:ARG:HD3	1.85	0.42
42:JM:36:MET:O	42:JM:37:PRO:C	2.57	0.42
41:KF:140:GLY:O	41:KF:181:GLU:HG2	2.20	0.42
41:KF:375:GLN:NE2	41:KF:423:GLN:OE1	2.53	0.42
42:KG:317:LEU:HD23	42:KG:377:MET:HB2	2.01	0.42
41:KH:167:PHE:HA	41:KH:200:TYR:HB2	2.00	0.42
42:KI:79:ARG:NH2	42:KI:94:THR:OG1	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:KI:319:TYR:N	42:KI:354:GLY:O	2.48	0.42
41:KL:239:CYS:HB3	41:KL:247:ASN:HB2	2.01	0.42
41:KN:101:TRP:HD1	41:KN:145:SER:HB3	1.85	0.42
41:MD:376:GLU:O	41:MD:377:LEU:C	2.58	0.42
41:MJ:237:THR:HB	41:MJ:250:LEU:HD21	2.01	0.42
41:ML:319:GLY:N	41:ML:354:CYS:O	2.49	0.42
41:NB:216:LYS:HA	41:NB:216:LYS:HD3	1.42	0.42
42:NC:109:THR:HB	42:NC:110:ILE:H	1.74	0.42
42:NC:274:PRO:HD3	42:NC:374:ALA:HA	2.01	0.42
42:NC:315:CYS:HG	42:NC:343:PHE:HZ	1.65	0.42
41:ND:329:GLN:HA	41:ND:332:ASN:HD21	1.84	0.42
41:ND:393:ALA:O	41:ND:394:PHE:C	2.58	0.42
41:NF:65:LEU:HD11	41:NF:85:PHE:HB3	2.01	0.42
42:NI:60:LYS:O	42:NI:61:HIS:C	2.57	0.42
42:NK:109:THR:O	42:NK:110:ILE:C	2.57	0.42
41:NL:34:GLY:HA3	41:NL:58:LYS:HA	2.02	0.42
41:NL:136:THR:HB	41:NL:167:PHE:HD2	1.84	0.42
41:OD:218:THR:HG22	41:OD:276:ARG:NH2	2.35	0.42
41:OD:266:PHE:HE2	41:OD:370:ASN:HD22	1.68	0.42
41:OF:46:ARG:HH12	42:OG:73:THR:HG23	1.84	0.42
41:OH:163:ILE:HD13	41:OH:251:ARG:HH21	1.85	0.42
41:OJ:310:TYR:HA	41:OJ:371:SER:HA	2.01	0.42
42:OK:70:LEU:HA	42:OK:95:GLY:HA3	2.01	0.42
41:OL:266:PHE:CZ	41:OL:368:ILE:HG23	2.54	0.42
42:PA:240:ALA:HA	42:PA:243:ARG:HD2	2.02	0.42
42:PA:252:LEU:HA	42:PA:255:PHE:CE1	2.55	0.42
42:PA:284:GLU:H	42:PA:284:GLU:HG2	1.45	0.42
41:PB:252:LYS:HE3	41:PB:252:LYS:HB2	1.75	0.42
42:PC:32:PRO:HB3	42:PC:83:TYR:CE1	2.55	0.42
42:PC:86:LEU:HD12	42:PC:86:LEU:HA	1.88	0.42
42:PC:106:GLY:HA3	42:PC:148:GLY:HA3	2.01	0.42
42:PC:110:ILE:O	42:PC:111:GLY:C	2.59	0.42
41:PD:117:LEU:HA	41:PD:117:LEU:HD22	1.73	0.42
42:PE:254:GLU:HG2	41:PF:98:GLY:HA2	2.01	0.42
41:PF:67:ASP:O	41:PF:93:GLY:N	2.47	0.42
42:PG:388:TRP:C	42:PG:390:ARG:H	2.23	0.42
41:PH:392:LYS:HA	41:PH:395:LEU:HD23	2.00	0.42
42:PI:273:ALA:HB3	42:PI:274:PRO:CD	2.50	0.42
42:PI:326:LYS:HE3	42:PI:326:LYS:HB3	1.65	0.42
42:PI:352:LYS:HZ2	42:PI:352:LYS:HG3	1.62	0.42
41:PJ:252:LYS:HA	42:PK:100:ALA:HB1	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:PL:19:LYS:HE2	41:PL:226:ASN:HD22	1.85	0.42
42:QE:97:GLU:OE2	42:QE:110:ILE:HG21	2.19	0.42
42:QE:168:GLU:OE1	42:QE:201:ALA:HB1	2.19	0.42
41:QF:127:CYS:HB2	41:QF:130:LEU:HD11	2.02	0.42
41:QF:379:LYS:O	41:QF:383:GLU:HG3	2.20	0.42
41:QH:313:VAL:HA	41:QH:369:GLY:HA2	2.02	0.42
41:QH:347:ASN:OD1	42:QI:181:VAL:HA	2.19	0.42
41:RB:58:LYS:HE3	41:RB:58:LYS:HB3	1.73	0.42
42:RC:196:GLU:OE1	42:RC:264:ARG:NH2	2.52	0.42
41:RD:80:PRO:O	41:RD:82:GLY:N	2.53	0.42
41:RD:426:GLN:O	41:RD:427:ASP:C	2.57	0.42
42:RE:21:TRP:CZ2	42:RE:65:ALA:HB2	2.55	0.42
42:RE:75:ILE:HG22	42:RE:79:ARG:HH21	1.85	0.42
41:RF:268:PRO:HB2	41:RF:300:MET:HE2	2.01	0.42
41:RF:345:ILE:HG21	42:RG:404:PHE:HE2	1.85	0.42
41:RH:185:ALA:O	41:RH:189:VAL:HG22	2.20	0.42
41:RJ:189:VAL:O	41:RJ:193:VAL:HG12	2.20	0.42
41:RJ:391:ARG:O	41:RJ:393:ALA:N	2.52	0.42
42:RK:238:ILE:HG23	42:RK:255:PHE:CE2	2.54	0.42
42:SC:8:HIS:CE1	42:SC:17:GLY:HA3	2.54	0.42
42:SC:258:ASN:HD21	41:SD:179:VAL:H	1.67	0.42
41:SD:245:GLN:HG2	41:SD:353:VAL:HG23	2.02	0.42
41:SF:405:GLU:HA	41:SF:408:PHE:HD1	1.85	0.42
41:SH:135:LEU:HD13	41:SH:152:ILE:HG13	2.02	0.42
42:SI:105:ARG:HG3	42:SI:109:THR:OG1	2.19	0.42
42:SI:215:ARG:HH21	42:SI:299:ALA:HB3	1.82	0.42
42:SI:280:LYS:HA	42:SI:283:HIS:CD2	2.54	0.42
41:SJ:130:LEU:O	41:SJ:162:ARG:NH1	2.53	0.42
41:SL:80:PRO:O	41:SL:82:GLY:N	2.52	0.42
41:SL:115:SER:OG	41:SL:116:VAL:N	2.52	0.42
42:SM:18:ASN:O	42:SM:22:GLU:HG2	2.20	0.42
42:SM:384:ILE:HD12	42:SM:387:ALA:HB3	2.02	0.42
42:SM:386:GLU:O	42:SM:390:ARG:N	2.52	0.42
42:TG:311:LYS:HG2	42:TG:342:GLN:HB3	2.01	0.42
41:TH:377:LEU:HG	41:TH:378:PHE:CD1	2.54	0.42
42:TI:157:LEU:HD12	42:TI:157:LEU:HA	1.86	0.42
42:TK:408:TYR:HB3	42:TK:413:MET:SD	2.60	0.42
42:TM:338:LYS:HD2	42:TM:338:LYS:HA	1.86	0.42
42:UE:372:GLN:HE21	42:UE:373:ARG:NH2	2.17	0.42
41:UF:68:LEU:HD11	41:UF:109:GLY:HA2	2.02	0.42
41:UH:139:LEU:HG	41:UH:168:SER:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:UM:138:PHE:HZ	42:UM:235:VAL:HG21	1.84	0.42
41:VD:103:LYS:HE2	41:VD:103:LYS:HB2	1.91	0.42
42:VE:21:TRP:CZ3	42:VE:52:PHE:HB3	2.54	0.42
42:VE:170:SER:OG	42:VE:203:MET:SD	2.77	0.42
42:VG:202:PHE:HE2	42:VG:378:LEU:HD13	1.85	0.42
41:VH:207:LEU:HD21	41:VH:229:VAL:HG23	2.02	0.42
42:VI:181:VAL:HG23	42:VI:182:VAL:HG13	2.01	0.42
41:VJ:342:VAL:HG22	41:VJ:348:ASN:HD21	1.85	0.42
42:VK:205:ASP:OD1	42:VK:208:ALA:HB3	2.20	0.42
41:VL:310:TYR:HB2	41:VL:341:PHE:HD1	1.85	0.42
42:WC:312:TYR:HA	42:WC:381:THR:HG22	2.02	0.42
42:WC:402:ARG:NH1	42:WC:415:GLU:OE1	2.46	0.42
42:WE:273:ALA:CB	42:WE:375:VAL:HG12	2.50	0.42
41:WH:68:LEU:HD12	41:WH:97:ALA:HB2	2.02	0.42
41:WH:337:ASN:HB3	41:WH:340:TYR:HD2	1.85	0.42
42:WI:161:TYR:O	42:WI:162:GLY:C	2.58	0.42
42:WK:310:GLY:HA3	42:WK:383:ALA:HB2	2.01	0.42
41:WL:234:SER:O	41:WL:241:ARG:NH1	2.44	0.42
41:WN:68:LEU:HD11	41:WN:109:GLY:HA2	2.01	0.42
2:1D:189:ARG:NH1	42:HE:342:GLN:OE1	2.40	0.42
9:2D:505:MET:HG2	41:IL:227:HIS:HB3	2.02	0.42
9:2D:601:LYS:HG3	42:JM:282:TYR:HE1	1.84	0.42
20:3O:220:CYS:N	20:3O:235:LEU:O	2.53	0.42
20:3P:472:VAL:HG11	20:3P:501:VAL:HG12	2.02	0.42
21:3U:161:ILE:HD11	42:KK:419:SER:HA	2.01	0.42
22:3Z:89:VAL:CG1	42:AI:79:ARG:HB3	2.49	0.42
22:4B:105:LYS:HE2	22:4B:109:GLN:HB3	2.02	0.42
24:4G:306:ARG:HH22	42:HI:364:PRO:C	2.18	0.42
24:4G:362:LYS:HE3	42:HG:279:GLU:HG2	2.02	0.42
25:4J:273:GLN:HE21	25:4J:310:ALA:HB3	1.84	0.42
25:4J:301:THR:HA	25:4J:304:TYR:CE1	2.55	0.42
27:4O:88:ASP:OD1	42:WC:163:LYS:NZ	2.39	0.42
27:4Q:160:ARG:HA	27:4Q:165:ILE:HD11	2.02	0.42
27:4R:211:ILE:HG21	41:WJ:122:LYS:HG3	2.02	0.42
27:4R:241:PHE:O	27:4R:242:ILE:C	2.58	0.42
31:5H:126:LEU:HD22	42:OK:84:ARG:NH2	2.28	0.42
32:5L:289:ILE:CG2	34:6A:483:THR:HG21	2.46	0.42
33:5V:353:LYS:HE3	33:5V:353:LYS:HB2	1.84	0.42
34:6A:179:LYS:HE3	34:6A:179:LYS:HB3	1.42	0.42
34:6I:82:PRO:HB2	34:6I:84:VAL:HG13	2.02	0.42
34:6K:284:PHE:HB2	34:6L:397:GLN:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:6R:178:LYS:HE2	35:6R:178:LYS:HB3	1.86	0.42
35:6R:293:LEU:HD12	35:6R:293:LEU:HA	1.86	0.42
35:6U:138:LEU:HD13	35:6U:282:ILE:HG23	2.01	0.42
35:6V:169:ARG:HG3	35:6W:51:TYR:O	2.20	0.42
35:6V:170:ASP:O	35:6V:172:VAL:N	2.53	0.42
35:6V:193:THR:O	35:6V:194:ILE:C	2.57	0.42
35:6W:123:GLU:O	35:6W:127:GLU:HG3	2.20	0.42
37:7D:77:LEU:O	37:7D:78:ARG:HD2	2.20	0.42
37:7E:140:ALA:O	42:OK:340:THR:HG23	2.19	0.42
37:7E:217:GLY:HA2	42:NG:123:ARG:HG3	2.02	0.42
37:7F:48:ALA:O	41:OD:332:ASN:ND2	2.53	0.42
38:7H:209:PRO:HD3	42:IC:215:ARG:HH21	1.83	0.42
41:AB:382:SER:HA	41:AB:385:PHE:CD1	2.55	0.42
42:AC:50:ASN:O	42:AC:64:ARG:NH1	2.53	0.42
41:AD:58:LYS:HZ3	41:BD:281:TYR:HE1	1.67	0.42
42:AE:185:TYR:HE2	42:AE:404:PHE:HB2	1.83	0.42
41:AF:7:LEU:HB3	41:AF:135:LEU:HD13	2.00	0.42
41:AH:46:ARG:NH2	42:AI:72:PRO:HB2	2.34	0.42
41:AJ:31:ASP:OD2	41:AJ:35:THR:OG1	2.37	0.42
41:AL:247:ASN:HD22	41:AL:247:ASN:HA	1.53	0.42
41:BD:282:ARG:HE	41:BD:282:ARG:HB2	1.57	0.42
41:BF:139:LEU:HG	41:BF:168:SER:HB3	2.02	0.42
42:BI:31:GLN:O	42:BI:32:PRO:C	2.58	0.42
42:BI:219:ILE:O	42:BI:222:PRO:HD3	2.20	0.42
41:CB:114:ASP:OD1	41:CB:115:SER:N	2.53	0.42
42:CC:209:ILE:HB	42:CC:227:LEU:HD13	2.02	0.42
41:CD:138:SER:HA	41:CD:169:VAL:HG12	2.01	0.42
41:CF:258:VAL:HB	42:CG:407:TRP:HZ2	1.84	0.42
42:CG:103:TYR:O	42:CG:104:ALA:C	2.58	0.42
42:CG:182:VAL:O	42:CG:185:TYR:HB2	2.20	0.42
41:CH:138:SER:O	41:CH:145:SER:N	2.52	0.42
41:CH:293:MET:HB3	41:CH:367:PHE:CD1	2.54	0.42
41:CJ:138:SER:OG	41:CJ:139:LEU:N	2.53	0.42
41:CJ:209:ASP:HB3	41:CJ:213:ARG:HE	1.84	0.42
41:CL:246:LEU:HD21	45:CM:501:GTP:H8	1.84	0.42
42:CM:150:THR:HG22	42:CM:154:MET:HE1	2.01	0.42
42:DC:103:TYR:HB2	42:DC:186:ASN:OD1	2.19	0.42
41:DD:69:GLU:HA	41:DD:70:PRO:HD3	1.92	0.42
42:DE:88:HIS:CE1	42:EE:280:LYS:HB3	2.55	0.42
41:DF:193:VAL:HA	41:DF:264:HIS:CE1	2.55	0.42
41:DF:273:LEU:HB2	41:DF:292:GLN:NE2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DH:406:MET:O	41:DH:409:THR:N	2.53	0.42
42:DI:430:LYS:O	42:DI:433:GLU:HG2	2.19	0.42
41:DJ:42:LEU:H	41:DJ:42:LEU:HG	1.60	0.42
41:DJ:73:MET:HG2	41:DJ:92:PHE:HB3	2.02	0.42
42:DK:265:ILE:HD12	42:DK:265:ILE:H	1.85	0.42
41:ED:182:PRO:O	41:ED:183:TYR:C	2.57	0.42
41:ED:315:ALA:HB1	41:ED:317:PHE:HE1	1.85	0.42
42:EE:314:ALA:O	42:EE:315:CYS:SG	2.78	0.42
42:EG:14:VAL:HG21	42:EG:74:VAL:HB	2.00	0.42
42:EI:386:GLU:HA	42:EI:389:ALA:HB3	2.02	0.42
41:EJ:263:LEU:HG	41:EJ:422:TYR:HE2	1.85	0.42
42:EK:223:THR:C	42:EK:225:THR:H	2.23	0.42
42:EK:357:TYR:O	42:EK:358:GLN:C	2.59	0.42
42:EK:369:ALA:O	42:EK:370:LYS:C	2.58	0.42
41:EL:139:LEU:HA	41:EL:145:SER:HB2	2.01	0.42
41:EL:275:SER:O	41:EL:279:GLN:N	2.53	0.42
42:EM:31:GLN:O	42:EM:32:PRO:C	2.58	0.42
42:EM:119:LEU:O	42:EM:123:ARG:HG2	2.20	0.42
42:FC:141:PHE:HD1	42:FC:141:PHE:HA	1.70	0.42
42:FC:313:MET:HA	42:FC:344:VAL:HG22	2.01	0.42
42:FE:206:ASN:OD1	45:FE:501:GTP:O2'	2.25	0.42
42:FI:233:GLN:HG3	42:FI:368:LEU:HD22	2.02	0.42
41:FJ:368:ILE:HG21	41:FJ:368:ILE:HD13	1.76	0.42
42:FK:90:GLU:O	42:FK:121:ARG:NE	2.53	0.42
42:FK:326:LYS:HE3	41:FL:208:TYR:CG	2.55	0.42
41:FL:137:HIS:O	41:FL:168:SER:HA	2.20	0.42
41:FL:184:ASN:ND2	41:FL:398:TYR:OH	2.53	0.42
42:FM:202:PHE:CD2	42:FM:378:LEU:HD22	2.55	0.42
42:FM:210:TYR:HE1	42:FM:227:LEU:HD11	1.85	0.42
42:FM:283:HIS:O	42:FM:285:GLN:NE2	2.53	0.42
41:GD:113:VAL:HG21	41:GD:150:LEU:HD13	2.01	0.42
41:GD:381:ILE:HD13	41:GD:381:ILE:HA	1.81	0.42
41:GF:187:LEU:HD21	41:GF:408:PHE:CE1	2.55	0.42
41:GF:209:ASP:OD2	41:GF:213:ARG:NH2	2.53	0.42
41:GH:136:THR:HA	41:GH:167:PHE:HB2	2.01	0.42
41:GH:323:MET:HA	41:GH:326:VAL:HG12	2.01	0.42
41:GL:285:THR:OG1	41:GL:286:VAL:N	2.48	0.42
41:HB:221:THR:OG1	41:HB:222:TYR:N	2.52	0.42
41:HB:328:GLU:O	41:HB:332:ASN:N	2.51	0.42
41:HD:112:LEU:HB3	41:HD:147:MET:HE1	2.02	0.42
41:HD:259:PRO:HA	42:HE:404:PHE:CE1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:HF:407:GLU:HA	41:HF:410:GLU:HG3	2.00	0.42
41:HH:68:LEU:HD11	41:HH:109:GLY:HA2	2.02	0.42
42:HI:133:GLN:NE2	42:HI:242:LEU:HG	2.35	0.42
41:HJ:388:MET:HE3	41:HJ:388:MET:HB3	1.79	0.42
41:HL:173:PRO:HB3	41:HL:380:ARG:CZ	2.49	0.42
41:HL:270:PHE:CE2	41:HL:272:PRO:HD2	2.54	0.42
42:HM:110:ILE:HD12	42:HM:110:ILE:HA	1.80	0.42
42:HM:401:LYS:HE3	42:HM:401:LYS:HB3	1.85	0.42
41:ID:421:GLU:HA	41:ID:424:GLN:HG3	2.02	0.42
41:IH:324:LYS:HB3	42:II:222:PRO:HD2	2.00	0.42
42:IK:121:ARG:CZ	42:IK:124:LYS:HE3	2.49	0.42
42:IK:288:VAL:HB	42:IK:373:ARG:HD3	2.02	0.42
42:IM:14:VAL:HG23	42:IM:67:PHE:HD2	1.85	0.42
42:JC:24:TYR:HB3	42:JC:53:PHE:HE1	1.85	0.42
42:JE:217:LEU:HD13	42:JE:367:ASP:HB2	2.02	0.42
42:JI:16:ILE:HD12	42:JI:231:ILE:HG21	2.02	0.42
42:JI:202:PHE:HE2	42:JI:268:PRO:HG2	1.85	0.42
41:JJ:246:LEU:HD21	42:JK:179:THR:HG21	2.01	0.42
42:JK:49:PHE:HE1	42:JK:55:GLU:HB2	1.83	0.42
42:KC:276:ILE:HD11	42:KC:286:LEU:HD11	2.01	0.42
42:KI:16:ILE:HA	42:KI:228:ASN:HB3	2.01	0.42
41:KL:281:TYR:OH	41:LL:83:GLN:O	2.36	0.42
42:KM:274:PRO:HB2	42:KM:371:VAL:HG11	2.02	0.42
42:LC:102:ASN:HB3	42:LC:105:ARG:HB2	2.02	0.42
41:LD:210:ILE:HA	41:LD:214:THR:HG23	2.01	0.42
42:LE:150:THR:O	42:LE:154:MET:HG2	2.20	0.42
42:LI:7:VAL:HG11	42:LI:153:LEU:HD21	2.02	0.42
41:LN:68:LEU:HD23	41:LN:68:LEU:HA	1.85	0.42
42:MC:139:HIS:HE1	42:MC:141:PHE:CE2	2.38	0.42
42:MC:269:LEU:HD11	42:MC:303:VAL:HB	2.00	0.42
42:MC:422:ARG:HA	42:MC:422:ARG:HD2	1.73	0.42
41:MD:7:LEU:O	41:MD:135:LEU:HG	2.19	0.42
41:MD:170:VAL:HG13	41:MD:171:PRO:HD2	2.02	0.42
42:MG:68:VAL:HA	42:MG:93:ILE:O	2.20	0.42
42:MG:436:GLY:O	42:MG:437:MET:C	2.57	0.42
42:MK:332:ILE:HG23	41:ML:175:VAL:HG21	2.01	0.42
42:MK:433:GLU:O	42:MK:436:GLY:N	2.53	0.42
41:ML:313:VAL:HG22	41:ML:367:PHE:HE1	1.84	0.42
42:MM:141:PHE:CE2	42:MM:172:TYR:HA	2.55	0.42
42:NA:140:SER:O	42:NA:142:GLY:N	2.52	0.42
42:NA:262:TYR:HE1	42:NA:435:VAL:HG13	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:NB:280:GLN:H	41:NB:280:GLN:HG2	1.55	0.42
41:NB:346:PRO:HD3	42:NC:398:MET:HG2	2.02	0.42
42:NC:156:ARG:O	42:NC:157:LEU:C	2.58	0.42
42:NC:184:PRO:HA	42:NC:391:LEU:HD12	2.01	0.42
42:NC:315:CYS:HA	42:NC:379:SER:HA	2.02	0.42
42:NC:354:GLY:O	42:NC:355:ILE:HG13	2.19	0.42
42:NE:36:MET:SD	42:NE:61:HIS:NE2	2.82	0.42
42:NE:190:THR:O	42:NE:194:THR:HG23	2.19	0.42
41:NF:260:PHE:O	41:NF:261:PRO:C	2.58	0.42
42:NG:258:ASN:HB3	42:NG:352:LYS:HG3	2.01	0.42
41:NH:398:TYR:HB3	41:NH:403:MET:HG3	2.01	0.42
42:NI:254:GLU:C	42:NI:256:GLN:H	2.24	0.42
41:OB:20:PHE:HA	41:OB:230:SER:OG	2.20	0.42
41:OB:21:TRP:HA	41:OB:24:ILE:HG22	2.02	0.42
41:OB:25:SER:HB3	41:OB:51:TYR:OH	2.19	0.42
41:OB:117:LEU:HD12	41:OB:117:LEU:HA	1.77	0.42
41:OB:149:THR:CG2	41:OB:191:GLN:HB2	2.50	0.42
41:OB:343:GLU:H	41:OB:343:GLU:CD	2.23	0.42
41:OF:200:TYR:CD2	41:OF:266:PHE:HB2	2.55	0.42
42:OG:3:GLU:HG3	42:OG:129:CYS:HB2	2.01	0.42
42:OG:217:LEU:H	42:OG:217:LEU:HG	1.42	0.42
41:OH:207:LEU:HA	41:OH:210:ILE:HD12	2.02	0.42
41:OJ:345:ILE:HG23	42:OK:398:MET:CE	2.50	0.42
41:OJ:345:ILE:HG22	41:OJ:347:ASN:O	2.20	0.42
42:OK:15:GLN:O	42:OK:228:ASN:ND2	2.52	0.42
41:OL:232:THR:HG23	41:OL:366:THR:HG23	2.01	0.42
41:OL:318:ARG:NE	41:OL:358:PRO:HD3	2.35	0.42
42:PC:223:THR:HB	42:PC:224:TYR:H	1.61	0.42
42:PC:406:HIS:O	42:PC:407:TRP:C	2.57	0.42
42:PE:50:ASN:O	42:PE:51:THR:C	2.58	0.42
42:PE:136:LEU:H	42:PE:136:LEU:HG	1.59	0.42
41:PF:21:TRP:CE3	41:PF:24:ILE:HD11	2.55	0.42
42:PG:402:ARG:O	42:PG:403:ALA:HB2	2.20	0.42
42:PG:431:ASP:O	42:PG:432:TYR:C	2.59	0.42
41:PH:49:VAL:HG21	41:PH:241:ARG:HG3	2.00	0.42
41:PH:52:ASN:HB2	41:PH:60:VAL:HG13	2.01	0.42
41:PH:103:LYS:HE3	41:PH:108:GLU:HB3	2.01	0.42
41:PH:222:TYR:O	41:PH:225:LEU:N	2.53	0.42
41:PH:374:ILE:HD12	41:PH:374:ILE:HA	1.88	0.42
41:PH:406:MET:HA	41:PH:409:THR:HG23	2.01	0.42
41:PH:406:MET:O	41:PH:407:GLU:C	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:PI:48:SER:O	42:PI:48:SER:OG	2.38	0.42
42:PI:60:LYS:HE3	42:PI:60:LYS:HB3	1.84	0.42
42:PI:77:GLU:O	42:PI:79:ARG:N	2.53	0.42
42:PI:128:GLN:H	42:PI:128:GLN:HG3	1.62	0.42
42:PI:223:THR:O	42:PI:227:LEU:HG	2.20	0.42
42:PK:19:ALA:O	42:PK:22:GLU:HB3	2.20	0.42
42:PK:54:SER:OG	42:PK:55:GLU:N	2.50	0.42
42:PK:338:LYS:O	42:PK:339:ARG:C	2.58	0.42
41:QB:343:GLU:HG3	41:QB:344:TRP:H	1.84	0.42
41:QD:139:LEU:HD23	41:QD:171:PRO:HD2	2.02	0.42
41:QD:271:ALA:HB2	41:QD:293:MET:SD	2.60	0.42
41:QH:8:GLN:HE22	41:QH:14:ASN:HA	1.85	0.42
41:QH:103:LYS:HA	41:QH:103:LYS:HD3	1.73	0.42
41:QH:131:GLN:HE22	41:QH:250:LEU:HB2	1.84	0.42
41:QH:139:LEU:H	41:QH:139:LEU:HG	1.62	0.42
41:QH:192:LEU:O	41:QH:195:ASN:N	2.53	0.42
41:QH:314:ALA:HB3	41:QH:368:ILE:HB	2.01	0.42
42:QI:288:VAL:O	42:QI:291:ILE:HG22	2.19	0.42
42:QI:299:ALA:O	42:QI:301:GLN:N	2.53	0.42
41:QJ:316:VAL:O	41:QJ:317:PHE:C	2.58	0.42
42:QK:392:ASP:C	42:QK:394:LYS:H	2.22	0.42
41:QL:46:ARG:HD3	41:QL:46:ARG:HA	1.64	0.42
41:QL:336:LYS:HB2	41:QL:337:ASN:H	1.59	0.42
41:RB:324:LYS:HZ1	42:RC:210:TYR:HB3	1.84	0.42
42:RC:259:LEU:HD21	42:RC:316:CYS:HB2	2.02	0.42
41:RD:319:GLY:HA2	41:RD:355:ASP:C	2.40	0.42
41:RF:225:LEU:HD22	41:RF:225:LEU:HA	1.92	0.42
41:RF:252:LYS:HD3	41:RF:350:LYS:HE3	2.02	0.42
41:RF:290:THR:HA	41:RF:293:MET:CG	2.50	0.42
42:RG:142:GLY:H	42:RG:147:SER:HB2	1.84	0.42
42:RG:401:LYS:HE3	42:RG:415:GLU:HG2	2.01	0.42
41:RJ:103:LYS:O	41:RJ:104:GLY:C	2.57	0.42
42:RK:24:TYR:O	42:RK:28:HIS:HB2	2.20	0.42
42:RK:284:GLU:OE2	42:RK:290:GLU:HG2	2.20	0.42
42:SE:305:CYS:O	42:SE:306:ASP:C	2.58	0.42
41:SF:237:THR:O	41:SF:240:LEU:HG	2.20	0.42
41:SF:257:MET:HE2	41:SF:312:THR:HB	2.01	0.42
42:SK:282:TYR:HE1	42:SK:370:LYS:HG2	1.85	0.42
41:SL:19:LYS:HD2	41:SL:19:LYS:HA	1.50	0.42
41:SL:70:PRO:O	41:SL:71:GLY:C	2.58	0.42
41:SL:155:ILE:HG23	41:SL:159:TYR:CD1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:SL:271:ALA:HB3	41:SL:272:PRO:HD3	2.01	0.42
41:SL:320:ARG:N	41:SL:355:ASP:HA	2.35	0.42
41:SL:327:ASP:HB3	42:SM:177:VAL:HG11	2.02	0.42
41:SL:399:THR:HA	41:SL:403:MET:O	2.19	0.42
42:TC:31:GLN:O	42:TC:33:ASP:N	2.48	0.42
42:TC:416:GLY:O	42:TC:420:GLU:N	2.38	0.42
42:TE:191:THR:HG21	42:TE:425:MET:SD	2.60	0.42
41:TJ:187:LEU:HD11	41:TJ:408:PHE:CZ	2.54	0.42
42:TM:3:GLU:HA	42:TM:51:THR:HA	2.00	0.42
42:TM:79:ARG:HB2	42:TM:92:LEU:HD22	2.01	0.42
42:UC:5:ILE:HD11	42:UC:126:ALA:HA	2.02	0.42
42:UG:10:GLY:C	42:UG:12:ALA:N	2.73	0.42
42:UG:320:ARG:HB2	42:UG:374:ALA:HB3	2.00	0.42
41:UH:170:VAL:N	41:UH:202:ILE:O	2.37	0.42
42:UK:8:HIS:CE1	42:UK:17:GLY:HA3	2.54	0.42
41:UL:214:THR:HG22	41:UL:215:LEU:HD22	2.02	0.42
42:VC:208:ALA:O	42:VC:212:ILE:HG12	2.20	0.42
42:VE:105:ARG:HA	42:VE:109:THR:HB	2.01	0.42
41:VJ:212:PHE:O	41:VJ:216:LYS:HD3	2.20	0.42
42:VM:114:LEU:HD23	42:VM:117:LEU:HD21	2.02	0.42
42:WC:340:THR:HG23	42:WC:341:ILE:HD12	2.02	0.42
41:WD:7:LEU:HB3	41:WD:135:LEU:HD13	2.02	0.42
42:WE:381:THR:HG23	42:WE:383:ALA:H	1.83	0.42
42:WG:208:ALA:O	42:WG:212:ILE:HG12	2.20	0.42
42:WG:352:LYS:HG3	41:WH:177:ASP:O	2.20	0.42
41:WH:63:ALA:O	41:WH:89:ASN:HB3	2.20	0.42
41:WH:95:SER:OG	41:WH:96:GLY:N	2.52	0.42
42:WI:273:ALA:HB3	42:WI:274:PRO:HD3	2.02	0.42
41:WL:51:TYR:HE2	41:WL:61:PRO:HG3	1.85	0.42
41:WL:252:LYS:HG3	42:WM:100:ALA:HA	2.01	0.42
41:WN:24:ILE:HD13	41:WN:24:ILE:HA	1.93	0.42
9:2D:301:ARG:HH21	42:IE:29:GLY:H	1.68	0.41
19:3K:434:LYS:HB2	19:3K:434:LYS:HE3	1.74	0.41
19:3L:29:GLN:HG2	42:LK:47:ASP:HB3	2.01	0.41
19:3L:267:TYR:CD2	19:3L:294:ARG:HD3	2.55	0.41
20:3O:650:SER:OG	41:ED:36:TYR:HB3	2.20	0.41
20:3Q:217:ARG:HD3	42:CM:41:THR:HG21	2.02	0.41
24:4F:61:GLN:HE21	24:4F:61:GLN:CA	2.32	0.41
30:5A:188:ARG:HH22	41:MH:55:THR:HG21	1.84	0.41
30:5A:335:ARG:HD2	42:LC:282:TYR:HD1	1.83	0.41
31:5D:15:LYS:HA	31:5D:18:ILE:HB	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:5F:123:VAL:HB	42:OG:82:THR:O	2.20	0.41
31:5J:40:LYS:HZ1	42:PA:364:PRO:HA	1.84	0.41
33:5Q:67:ARG:HA	33:5Q:67:ARG:HD2	1.85	0.41
33:5T:87:ALA:O	33:5T:88:GLU:C	2.58	0.41
33:5T:246:THR:O	33:5T:247:ILE:C	2.59	0.41
33:5V:246:THR:O	33:5V:250:THR:HG23	2.20	0.41
34:6A:112:THR:O	34:6A:116:ASN:N	2.44	0.41
34:6F:365:LEU:HD23	34:6F:459:LEU:HD22	2.02	0.41
35:6S:186:ILE:HG12	35:6S:289:THR:HG23	2.02	0.41
35:6T:364:PRO:HD2	35:6T:367:GLU:OE1	2.20	0.41
35:6V:57:PHE:HB3	35:6V:61:TYR:CE2	2.55	0.41
35:6V:140:ARG:HE	35:6V:140:ARG:HB3	1.67	0.41
37:7C:235:VAL:N	41:TF:329:GLN:HE22	2.18	0.41
42:AC:273:ALA:HB1	42:AC:294:ALA:HB3	2.01	0.41
41:AD:256:ASN:ND2	42:AE:407:TRP:HB2	2.35	0.41
41:AF:386:THR:O	41:AF:390:ARG:HG3	2.20	0.41
41:AH:202:ILE:H	41:AH:202:ILE:HG13	1.62	0.41
42:AI:188:ILE:HG23	42:AI:425:MET:HG3	2.01	0.41
41:BD:345:ILE:O	41:BD:346:PRO:C	2.57	0.41
42:BE:135:PHE:HB2	42:BE:166:LYS:HA	2.01	0.41
42:BG:209:ILE:HG23	42:BG:230:LEU:HD13	2.02	0.41
41:BH:19:LYS:HD2	41:BH:19:LYS:HA	1.90	0.41
42:BI:215:ARG:O	42:BI:216:ASN:C	2.58	0.41
41:BJ:252:LYS:HG2	42:BK:100:ALA:HA	2.02	0.41
42:BK:71:GLU:HB2	42:BK:98:ASP:HB3	2.01	0.41
42:BK:336:LYS:HE3	42:BK:351:PHE:HD1	1.85	0.41
42:BK:345:ASP:OD1	42:BK:346:TRP:N	2.53	0.41
42:BK:388:TRP:O	42:BK:392:ASP:N	2.44	0.41
41:CB:3:GLU:HG3	41:CB:48:ASN:O	2.19	0.41
41:CB:25:SER:O	41:CB:30:ILE:N	2.38	0.41
41:CB:109:GLY:O	41:CB:113:VAL:HG13	2.20	0.41
41:CB:412:GLU:HA	41:CB:415:MET:HG2	2.02	0.41
42:CC:24:TYR:HD1	42:CC:24:TYR:HA	1.74	0.41
42:CC:136:LEU:HD22	42:CC:169:PHE:CE2	2.55	0.41
42:CC:209:ILE:HD13	42:CC:302:MET:HB3	2.02	0.41
42:CC:304:LYS:HE2	42:CC:304:LYS:HB2	1.59	0.41
41:CD:171:PRO:O	41:CD:380:ARG:NH2	2.53	0.41
42:CE:140:SER:OG	45:CE:501:GTP:O2A	2.38	0.41
41:CF:105:HIS:CE1	41:CF:150:LEU:HD13	2.54	0.41
42:CG:16:ILE:HG13	42:CG:16:ILE:H	1.41	0.41
42:CI:151:SER:HB3	42:CI:193:THR:HG21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:CJ:183:TYR:OH	41:CJ:388:MET:HB3	2.19	0.41
42:CK:292:THR:OG1	42:CK:319:TYR:OH	2.24	0.41
42:DC:84:ARG:HD2	42:DC:85:GLN:NE2	2.35	0.41
41:DD:36:TYR:HB2	41:DD:59:TYR:HE2	1.85	0.41
42:DE:2:ARG:HG3	42:DE:243:ARG:HG3	2.02	0.41
42:DE:311:LYS:HE2	42:DE:342:GLN:NE2	2.35	0.41
41:DF:99:ASN:HD22	41:DF:141:GLY:HA2	1.85	0.41
41:DF:267:MET:HG2	41:DF:299:MET:CE	2.50	0.41
41:DH:292:GLN:C	41:DH:294:PHE:N	2.73	0.41
41:DH:307:HIS:CE1	41:DH:373:ALA:HB1	2.55	0.41
41:DH:325:GLU:O	41:DH:328:GLU:N	2.53	0.41
41:DJ:8:GLN:HE21	41:DJ:17:GLY:HA3	1.84	0.41
41:DJ:32:PRO:HA	41:DJ:81:PHE:CD2	2.56	0.41
41:DJ:68:LEU:HD12	41:DJ:68:LEU:HA	1.80	0.41
41:DL:187:LEU:HD13	41:DL:187:LEU:HA	1.87	0.41
41:DL:193:VAL:HA	41:DL:264:HIS:HE1	1.84	0.41
41:DL:253:LEU:O	41:DL:257:MET:HG2	2.20	0.41
42:DM:217:LEU:HD12	42:DM:277:SER:HA	2.01	0.41
41:ED:81:PHE:O	41:ED:83:GLN:N	2.53	0.41
41:ED:323:MET:HG3	42:EE:224:TYR:CG	2.55	0.41
42:EG:224:TYR:CD1	45:EG:501:GTP:N2	2.87	0.41
41:EH:164:MET:HE2	41:EH:164:MET:HB2	1.82	0.41
42:EK:322:ASP:H	42:EK:373:ARG:HG3	1.85	0.41
42:FC:21:TRP:O	42:FC:22:GLU:C	2.58	0.41
42:FC:155:GLU:HA	42:FC:197:HIS:ND1	2.34	0.41
41:FD:131:GLN:OE1	41:FD:250:LEU:HB2	2.20	0.41
41:FF:337:ASN:HB3	41:FF:340:TYR:CD2	2.55	0.41
42:FG:93:ILE:HG13	42:FG:118:VAL:HG12	2.02	0.41
42:FG:213:CYS:O	42:FG:219:ILE:HG13	2.20	0.41
42:FG:261:PRO:HD2	42:FG:265:ILE:HB	2.02	0.41
42:FG:338:LYS:O	42:FG:341:ILE:HG22	2.20	0.41
42:FI:150:THR:O	42:FI:154:MET:HG2	2.20	0.41
42:FI:321:GLY:N	42:FI:356:ASN:O	2.53	0.41
42:FK:101:ASN:N	42:FK:101:ASN:OD1	2.53	0.41
42:FK:276:ILE:HG22	42:FK:280:LYS:HB2	2.02	0.41
42:FK:320:ARG:N	42:FK:374:ALA:O	2.52	0.41
41:FL:100:ASN:C	41:FL:102:ALA:N	2.73	0.41
41:FL:285:THR:O	41:FL:286:VAL:C	2.57	0.41
42:GI:71:GLU:HG2	42:GI:73:THR:HG22	2.00	0.41
42:GI:201:ALA:O	42:GI:268:PRO:HD2	2.20	0.41
42:GI:216:ASN:HB3	42:GI:275:VAL:HG13	2.00	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:GK:269:LEU:CD2	42:GK:303:VAL:HG21	2.50	0.41
41:GL:8:GLN:HA	41:GL:135:LEU:HD12	2.01	0.41
42:GM:271:THR:HG23	42:GM:377:MET:HB3	2.01	0.41
41:HB:50:TYR:HD2	41:HB:241:ARG:HD3	1.85	0.41
41:HB:203:ASP:N	41:HB:300:MET:O	2.51	0.41
42:HC:119:LEU:HA	42:HC:119:LEU:HD13	1.85	0.41
42:HC:195:LEU:HA	42:HC:266:HIS:CE1	2.53	0.41
41:HF:68:LEU:HB3	41:HF:96:GLY:HA2	2.01	0.41
41:HF:148:GLY:O	41:HF:152:ILE:HG12	2.19	0.41
42:HG:107:HIS:CD2	42:HG:151:SER:HB3	2.55	0.41
42:HG:115:ILE:HD12	42:HG:115:ILE:HA	1.89	0.41
42:HG:258:ASN:HD21	41:HH:180:VAL:HG12	1.85	0.41
41:HH:32:PRO:HG3	41:HH:81:PHE:CD1	2.55	0.41
42:HI:250:VAL:HG11	42:HI:318:LEU:CD2	2.50	0.41
41:HJ:174:LYS:H	41:HJ:174:LYS:HG3	1.75	0.41
42:HK:203:MET:HE2	42:HK:203:MET:HB2	1.80	0.41
42:HK:265:ILE:HG21	42:HK:313:MET:HE3	2.01	0.41
41:HL:322:SER:HA	42:HM:223:THR:HG23	2.02	0.41
42:HM:89:PRO:HD3	42:IM:283:HIS:ND1	2.34	0.41
42:IC:173:PRO:HG2	42:IC:391:LEU:HD11	2.00	0.41
41:ID:380:ARG:HA	41:ID:383:GLU:HG2	2.00	0.41
42:IG:427:ALA:HA	42:IG:430:LYS:HG2	2.02	0.41
41:IL:101:TRP:CZ3	41:IL:146:GLY:HA2	2.55	0.41
42:JC:123:ARG:HA	42:JC:123:ARG:NE	2.35	0.41
42:JC:191:THR:HG1	42:JC:388:TRP:HH2	1.66	0.41
42:JE:170:SER:HB3	42:JE:203:MET:SD	2.60	0.41
41:JF:108:GLU:O	41:JF:111:GLU:HG3	2.20	0.41
41:JF:406:MET:O	41:JF:409:THR:OG1	2.37	0.41
41:JH:45:GLU:HG2	41:JH:46:ARG:HG2	2.02	0.41
41:JH:67:ASP:OD2	41:JH:68:LEU:N	2.52	0.41
41:JJ:117:LEU:HD11	41:JJ:154:LYS:HB3	2.01	0.41
42:JK:26:LEU:O	42:JK:27:GLU:C	2.58	0.41
42:JM:5:ILE:HG13	42:JM:125:LEU:HD11	2.01	0.41
42:JM:27:GLU:HG2	42:JM:361:THR:HG21	2.02	0.41
42:JM:117:LEU:HA	42:JM:117:LEU:HD22	1.72	0.41
42:JM:163:LYS:HE2	42:JM:163:LYS:HB2	1.41	0.41
42:KC:75:ILE:HG23	42:KC:92:LEU:HD23	2.01	0.41
41:KF:4:ILE:HD11	41:KF:240:LEU:HD11	2.00	0.41
41:KH:131:GLN:NE2	41:KH:250:LEU:HB2	2.33	0.41
42:KI:31:GLN:N	42:KI:35:GLN:O	2.45	0.41
41:KJ:169:VAL:HG22	41:KJ:202:ILE:HD11	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:KN:293:MET:HB3	41:KN:367:PHE:HB2	2.02	0.41
42:LC:260:VAL:HB	41:LD:397:TRP:HZ2	1.85	0.41
42:LC:270:ALA:O	42:LC:302:MET:HB2	2.20	0.41
41:LH:167:PHE:CE2	41:LH:233:MET:HG2	2.55	0.41
41:LL:54:ALA:HB3	41:LL:58:LYS:HB3	2.02	0.41
42:MC:75:ILE:HG23	42:MC:92:LEU:HD12	2.02	0.41
41:MD:139:LEU:HD11	41:MD:192:LEU:HD12	2.02	0.41
42:ME:235:VAL:HA	42:ME:238:ILE:HB	2.02	0.41
41:MH:46:ARG:NH2	42:MI:76:ASP:OD2	2.53	0.41
41:ML:8:GLN:OE1	41:ML:14:ASN:HA	2.20	0.41
42:MM:184:PRO:HB3	42:MM:395:PHE:HB2	2.02	0.41
41:MN:149:THR:CG2	41:MN:191:GLN:HB2	2.51	0.41
41:MN:239:CYS:HA	41:MN:243:PRO:HA	2.01	0.41
41:NB:313:VAL:HA	41:NB:369:GLY:HA2	2.02	0.41
42:NC:96:LYS:HA	42:NC:96:LYS:HD3	1.68	0.41
41:NF:285:THR:OG1	41:NF:285:THR:O	2.37	0.41
42:NG:344:VAL:HB	42:NG:346:TRP:CZ3	2.55	0.41
42:NG:381:THR:C	42:NG:383:ALA:H	2.24	0.41
42:NI:274:PRO:HB2	42:NI:371:VAL:HG21	2.01	0.41
42:NK:112:LYS:HG2	42:NK:152:LEU:HD21	2.01	0.41
42:NK:223:THR:OG1	42:NK:224:TYR:N	2.53	0.41
41:NL:50:TYR:HE2	41:NL:237:THR:HG21	1.85	0.41
42:OA:122:ILE:HG22	42:OA:161:TYR:OH	2.20	0.41
42:OA:198:SER:HB3	42:OA:266:HIS:HE1	1.85	0.41
42:OA:336:LYS:HD3	42:OA:351:PHE:CE2	2.53	0.41
42:OC:311:LYS:HA	42:OC:311:LYS:HD3	1.83	0.41
41:OD:31:ASP:OD2	41:OD:35:THR:OG1	2.37	0.41
41:OD:292:GLN:HG2	41:OD:298:ASN:HD22	1.84	0.41
42:OI:100:ALA:HB3	42:OI:105:ARG:HD3	2.02	0.41
42:OI:273:ALA:HB2	42:OI:295:CYS:SG	2.59	0.41
41:OJ:207:LEU:HA	41:OJ:207:LEU:HD23	1.75	0.41
42:OK:328:VAL:HG21	42:OK:355:ILE:HD11	2.02	0.41
41:OL:8:GLN:NE2	41:OL:17:GLY:HA3	2.34	0.41
42:PA:137:ILE:HG13	42:PA:168:GLU:HB3	2.01	0.41
42:PC:190:THR:O	42:PC:191:THR:C	2.58	0.41
41:PD:107:THR:OG1	41:PD:108:GLU:N	2.53	0.41
41:PD:155:ILE:HD13	41:PD:155:ILE:HA	1.76	0.41
41:PD:320:ARG:HD2	41:PD:320:ARG:HA	1.31	0.41
42:PE:332:ILE:HG23	42:PE:351:PHE:HE2	1.85	0.41
41:PF:21:TRP:HA	41:PF:24:ILE:HG12	2.00	0.41
41:PH:49:VAL:O	41:PH:51:TYR:N	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:PH:216:LYS:O	41:PH:217:LEU:C	2.56	0.41
41:PH:239:CYS:C	41:PH:241:ARG:N	2.72	0.41
41:PH:258:VAL:H	41:PH:258:VAL:HG23	1.52	0.41
41:PH:418:LEU:O	41:PH:421:GLU:N	2.53	0.41
41:PJ:232:THR:O	41:PJ:233:MET:C	2.58	0.41
41:PJ:257:MET:HB3	41:PJ:266:PHE:CZ	2.55	0.41
41:PL:250:LEU:HD12	41:PL:250:LEU:HA	1.72	0.41
41:QB:88:ASP:O	41:QB:90:PHE:N	2.53	0.41
42:QC:137:ILE:HD13	42:QC:154:MET:SD	2.60	0.41
42:QC:195:LEU:HD11	42:QC:428:LEU:HD11	2.03	0.41
41:QH:204:ASN:O	41:QH:208:TYR:N	2.47	0.41
41:QH:244:GLY:CA	41:QH:355:ASP:HB3	2.49	0.41
41:QJ:10:GLY:HA2	41:QJ:143:THR:HG23	2.02	0.41
41:QJ:167:PHE:HA	41:QJ:200:TYR:HD2	1.84	0.41
42:QK:323:VAL:O	42:QK:324:VAL:C	2.58	0.41
42:QK:373:ARG:H	42:QK:373:ARG:HG2	1.69	0.41
41:QL:20:PHE:CD1	41:QL:230:SER:HA	2.54	0.41
41:RB:20:PHE:CE2	41:RB:24:ILE:HD11	2.55	0.41
42:RC:60:LYS:HD2	42:SC:283:HIS:HA	2.02	0.41
41:RD:230:SER:HA	41:RD:233:MET:HB2	2.01	0.41
41:RF:98:GLY:O	41:RF:99:ASN:C	2.58	0.41
41:RF:154:LYS:HB2	41:RF:154:LYS:HE3	1.29	0.41
41:RF:270:PHE:HB2	41:RF:273:LEU:HD22	2.02	0.41
41:RF:280:GLN:H	41:RF:280:GLN:HG3	1.64	0.41
42:RG:264:ARG:HD3	42:RG:428:LEU:HD21	2.02	0.41
42:RG:279:GLU:OE1	42:RG:279:GLU:N	2.43	0.41
41:RH:200:TYR:CD2	41:RH:268:PRO:HG3	2.55	0.41
42:RK:107:HIS:ND1	42:RK:151:SER:OG	2.41	0.41
42:RK:376:CYS:SG	42:RK:377:MET:N	2.93	0.41
42:SC:310:GLY:HA3	42:SC:383:ALA:HB2	2.02	0.41
41:SF:189:VAL:O	41:SF:190:HIS:C	2.59	0.41
41:SF:400:GLY:O	41:SF:401:GLU:C	2.58	0.41
42:SG:311:LYS:N	42:SG:382:THR:OG1	2.39	0.41
42:SI:259:LEU:HD13	42:SI:259:LEU:HA	1.70	0.41
42:SK:319:TYR:CD1	42:SK:375:VAL:HG12	2.54	0.41
41:SL:280:GLN:H	41:SL:280:GLN:HG3	1.56	0.41
41:SL:289:LEU:HD22	41:SL:363:MET:SD	2.59	0.41
42:TC:315:CYS:HA	42:TC:379:SER:HA	2.01	0.41
41:TD:406:MET:O	41:TD:409:THR:OG1	2.30	0.41
42:TE:121:ARG:HA	42:TE:121:ARG:HD2	1.91	0.41
41:TF:325:GLU:OE1	42:TG:221:ARG:HG2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:TG:139:HIS:HB2	42:TG:146:GLY:O	2.19	0.41
42:TI:152:LEU:HD12	42:TI:152:LEU:HA	1.83	0.41
42:TI:171:ILE:HA	42:TI:204:VAL:O	2.20	0.41
41:TJ:230:SER:HA	41:TJ:233:MET:HG2	2.01	0.41
41:TJ:310:TYR:HD2	41:TJ:341:PHE:HE2	1.68	0.41
42:TK:285:GLN:HG2	42:TK:286:LEU:H	1.85	0.41
42:TM:201:ALA:HB3	42:TM:266:HIS:HE1	1.85	0.41
42:UC:85:GLN:H	42:UC:85:GLN:HG2	1.43	0.41
41:UD:287:PRO:O	41:UD:329:GLN:NE2	2.51	0.41
42:UE:346:TRP:O	41:UF:388:MET:HG2	2.20	0.41
41:UF:68:LEU:HB2	41:UF:143:THR:HG22	2.02	0.41
41:UF:120:VAL:O	41:UF:124:ALA:N	2.53	0.41
42:UG:93:ILE:HD11	42:UG:121:ARG:HD2	2.02	0.41
42:UG:181:VAL:HG12	42:UG:404:PHE:CE2	2.54	0.41
41:UJ:32:PRO:HD3	41:UJ:81:PHE:CZ	2.55	0.41
42:UK:237:SER:HA	42:UK:240:ALA:HB2	2.02	0.41
41:UL:309:ARG:HG3	41:UL:426:GLN:OE1	2.20	0.41
42:UM:2:ARG:O	42:UM:51:THR:HG23	2.20	0.41
42:UM:252:LEU:HA	42:UM:255:PHE:HE1	1.85	0.41
42:VC:191:THR:HG21	42:VC:425:MET:SD	2.60	0.41
41:VF:107:THR:O	41:VF:109:GLY:N	2.53	0.41
41:VF:264:HIS:HA	41:VF:266:PHE:CE1	2.54	0.41
42:VG:239:THR:HG22	42:VG:252:LEU:HD13	2.02	0.41
41:VH:4:ILE:HG21	41:VH:134:GLN:HG3	2.02	0.41
41:VH:375:GLN:HG3	41:VH:419:VAL:HG13	2.02	0.41
42:VI:234:ILE:O	42:VI:238:ILE:HG13	2.20	0.41
42:VK:20:CYS:SG	42:VK:21:TRP:N	2.93	0.41
42:VK:242:LEU:HD23	42:VK:242:LEU:HA	1.86	0.41
42:VK:287:SER:O	42:VK:288:VAL:C	2.57	0.41
42:VM:246:GLY:HA2	42:VM:357:TYR:CD2	2.54	0.41
42:WE:339:ARG:HH11	42:WE:339:ARG:HA	1.83	0.41
42:WG:93:ILE:HD13	42:WG:118:VAL:HG22	2.02	0.41
42:WG:298:PRO:HG3	42:WG:308:ARG:CZ	2.50	0.41
41:WH:6:HIS:HA	41:WH:134:GLN:HG3	2.02	0.41
41:WH:197:ASP:N	41:WH:197:ASP:OD1	2.53	0.41
42:WI:230:LEU:HD23	42:WI:230:LEU:HA	1.89	0.41
42:WI:294:ALA:HA	42:WI:297:GLU:HG2	2.02	0.41
42:WI:360:PRO:HG2	42:WI:371:VAL:HG23	2.02	0.41
41:WJ:296:ALA:HA	41:WJ:305:PRO:HG2	2.01	0.41
42:WK:118:VAL:HG11	42:WK:149:PHE:CZ	2.55	0.41
42:WK:276:ILE:HD12	42:WK:276:ILE:HA	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:WL:209:ASP:OD2	41:WL:213:ARG:NH2	2.53	0.41
41:WN:303:CYS:SG	41:WN:377:LEU:HB2	2.60	0.41
7:1T:205:GLU:HG3	30:5A:318:ARG:HG3	2.01	0.41
14:2X:128:VAL:HG21	42:MI:405:VAL:HG13	2.02	0.41
19:3K:446:THR:O	19:3K:448:MET:HG3	2.19	0.41
19:3L:182:ARG:NH2	19:3L:205:GLU:OE2	2.53	0.41
19:3L:424:ALA:HB3	19:3L:438:PHE:HB2	2.01	0.41
20:3N:145:VAL:HG22	20:3N:150:THR:HG22	2.01	0.41
20:3P:425:LYS:N	20:3P:507:PHE:O	2.45	0.41
21:3U:124:PRO:HG3	42:LK:109:THR:HG22	2.02	0.41
21:3V:214:PHE:HA	21:3V:217:LEU:HD23	2.02	0.41
22:4C:84:LEU:N	22:4C:87:SER:HG	2.18	0.41
27:4R:88:ASP:HB3	27:4R:90:LYS:HD2	2.02	0.41
27:4T:215:GLN:O	27:4T:216:GLN:C	2.57	0.41
28:4W:44:PHE:HE1	42:GM:37:PRO:CG	2.33	0.41
33:5Q:202:LYS:HG2	33:5R:315:HIS:HB3	2.02	0.41
33:5V:315:HIS:HB3	33:5W:202:LYS:HG2	2.02	0.41
33:5X:365:ALA:O	33:5X:368:LYS:HG3	2.19	0.41
33:5X:373:LEU:O	33:5X:377:ILE:N	2.50	0.41
34:6B:230:GLN:HB3	34:6B:234:LYS:NZ	2.35	0.41
34:6C:254:LEU:HD22	34:6C:254:LEU:HA	1.87	0.41
34:6D:370:GLN:HG3	34:6D:371:GLU:N	2.33	0.41
34:6F:184:ALA:HA	34:6F:187:GLU:HG2	2.01	0.41
34:6L:107:PHE:HE1	34:6M:361:ILE:HG13	1.84	0.41
41:AB:265:PHE:HE2	41:AB:418:LEU:HD21	1.85	0.41
42:AC:230:LEU:HD11	42:AC:275:VAL:HG21	2.01	0.41
42:AG:428:LEU:HA	42:AG:431:ASP:HB2	2.02	0.41
41:AJ:187:LEU:O	41:AJ:191:GLN:NE2	2.48	0.41
42:AK:123:ARG:HA	42:AK:123:ARG:HD3	1.75	0.41
41:AL:95:SER:OG	41:AL:96:GLY:N	2.53	0.41
41:AL:150:LEU:HA	41:AL:150:LEU:HD23	1.76	0.41
41:AL:193:VAL:HA	41:AL:264:HIS:HE1	1.84	0.41
42:BC:120:ASP:O	42:BC:124:LYS:HG2	2.20	0.41
41:BD:68:LEU:HA	41:BD:68:LEU:HD13	1.72	0.41
42:BI:139:HIS:HE1	42:BI:141:PHE:CE1	2.37	0.41
41:BJ:180:VAL:O	41:BJ:184:ASN:ND2	2.52	0.41
42:CC:220:GLU:O	42:CC:221:ARG:HB2	2.20	0.41
41:CD:68:LEU:HD23	41:CD:147:MET:HE2	2.01	0.41
42:CE:259:LEU:HD21	42:CE:268:PRO:HB3	2.02	0.41
41:CF:95:SER:OG	41:CF:96:GLY:N	2.53	0.41
42:CG:183:GLU:O	42:CG:184:PRO:C	2.58	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CG:211:ASP:O	42:CG:215:ARG:HG2	2.19	0.41
41:CJ:35:THR:HG23	41:CJ:58:LYS:HE2	2.02	0.41
41:CJ:273:LEU:HD23	41:CJ:273:LEU:HA	1.88	0.41
42:CM:319:TYR:N	42:CM:354:GLY:O	2.53	0.41
41:DB:123:GLU:O	41:DB:126:SER:OG	2.35	0.41
41:DH:236:VAL:O	41:DH:238:THR:N	2.53	0.41
41:DH:242:PHE:HB3	41:DH:356:ILE:HB	2.01	0.41
41:DH:286:VAL:HA	41:DH:363:MET:HE1	2.02	0.41
41:DH:296:ALA:O	41:DH:298:ASN:N	2.53	0.41
42:DK:250:VAL:CG1	42:DK:354:GLY:HA3	2.51	0.41
42:DK:282:TYR:O	42:DK:284:GLU:N	2.47	0.41
42:DK:405:VAL:O	42:DK:406:HIS:C	2.59	0.41
41:DL:378:PHE:HA	41:DL:381:ILE:HG22	2.01	0.41
42:EC:186:ASN:O	42:EC:190:THR:OG1	2.25	0.41
42:EC:239:THR:O	42:EC:243:ARG:HG3	2.20	0.41
42:EC:254:GLU:OE1	41:ED:99:ASN:ND2	2.53	0.41
41:ED:61:PRO:HG3	41:ED:84:ILE:HG23	2.02	0.41
41:ED:284:LEU:HD12	41:ED:284:LEU:HA	1.96	0.41
41:ED:327:ASP:O	41:ED:328:GLU:C	2.58	0.41
41:EF:252:LYS:HD3	41:EF:350:LYS:NZ	2.35	0.41
42:EG:100:ALA:C	42:EG:102:ASN:H	2.22	0.41
42:EG:114:LEU:HD23	42:EG:114:LEU:HA	1.84	0.41
41:EH:382:SER:O	41:EH:386:THR:HG22	2.20	0.41
42:EK:173:PRO:HA	42:EK:205:ASP:HB2	2.03	0.41
42:EK:430:LYS:HE3	42:EK:430:LYS:HB3	1.29	0.41
42:EM:138:PHE:H	42:EM:138:PHE:HD2	1.68	0.41
41:FD:85:PHE:HB2	41:FD:90:PHE:HE1	1.85	0.41
42:FE:28:HIS:HB2	42:FE:30:ILE:HG12	2.02	0.41
42:FE:319:TYR:N	42:FE:354:GLY:O	2.52	0.41
41:FL:257:MET:CE	41:FL:314:ALA:HB2	2.49	0.41
42:FM:265:ILE:HG22	42:FM:380:ASN:ND2	2.35	0.41
42:FM:268:PRO:HA	42:FM:380:ASN:HA	2.01	0.41
42:GC:135:PHE:HB2	42:GC:166:LYS:CG	2.45	0.41
41:GD:331:LEU:HB2	42:GE:177:VAL:HG12	2.01	0.41
42:GG:395:PHE:CE2	42:GG:422:ARG:HD3	2.55	0.41
42:GI:109:THR:O	42:GI:112:LYS:N	2.53	0.41
41:GJ:252:LYS:HB2	41:GJ:252:LYS:HE3	1.71	0.41
42:GM:31:GLN:HG3	42:GM:37:PRO:HD3	2.02	0.41
42:GM:281:ALA:HA	42:GM:284:GLU:HG2	2.00	0.41
42:GM:291:ILE:HG23	42:GM:375:VAL:CG1	2.50	0.41
41:HD:109:GLY:O	41:HD:111:GLU:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:HD:149:THR:HA	41:HD:152:ILE:HD12	2.01	0.41
41:HD:187:LEU:HD11	41:HD:408:PHE:CE2	2.55	0.41
41:HD:262:ARG:HE	41:HD:262:ARG:HB3	1.51	0.41
41:HD:323:MET:HG3	42:HE:224:TYR:CE2	2.55	0.41
42:HE:271:THR:OG1	42:HE:301:GLN:HG2	2.20	0.41
42:HG:153:LEU:HD23	42:HG:153:LEU:HA	1.88	0.41
42:HG:270:ALA:HB3	42:HG:302:MET:SD	2.61	0.41
42:HI:2:ARG:O	42:HI:51:THR:HA	2.20	0.41
42:HI:118:VAL:O	42:HI:122:ILE:HG13	2.20	0.41
41:HJ:160:PRO:O	41:HJ:162:ARG:N	2.53	0.41
41:HJ:246:LEU:HD23	41:HJ:246:LEU:HA	1.83	0.41
41:HJ:306:ARG:HE	41:HJ:306:ARG:HB2	1.66	0.41
42:HK:385:ALA:HB2	42:HK:432:TYR:HD2	1.85	0.41
42:HM:16:ILE:HD11	42:HM:171:ILE:HD11	2.00	0.41
42:HM:166:LYS:HE2	42:HM:166:LYS:HB2	1.60	0.41
42:HM:430:LYS:HE3	42:HM:430:LYS:HB2	1.36	0.41
42:IC:298:PRO:HG3	42:IC:307:PRO:HD2	2.02	0.41
42:IE:314:ALA:HB3	42:IE:380:ASN:ND2	2.35	0.41
41:IF:8:GLN:HE21	41:IF:14:ASN:HA	1.85	0.41
41:IF:399:THR:HA	41:IF:403:MET:HB3	2.02	0.41
41:IH:269:GLY:HA3	41:IH:299:MET:HE2	2.02	0.41
42:IK:105:ARG:HA	42:IK:109:THR:HB	2.02	0.41
41:IL:221:THR:OG1	41:IL:222:TYR:N	2.51	0.41
41:IN:258:VAL:HG22	41:IN:266:PHE:CZ	2.37	0.41
41:IN:325:GLU:O	41:IN:326:VAL:C	2.56	0.41
41:JF:376:GLU:O	41:JF:380:ARG:NH1	2.54	0.41
42:KC:248:LEU:H	42:KC:355:ILE:HB	1.85	0.41
42:KC:425:MET:HA	42:KC:428:LEU:HB3	2.02	0.41
42:KE:228:ASN:OD1	45:KE:501:GTP:N1	2.52	0.41
42:KG:70:LEU:HA	42:KG:95:GLY:HA3	2.01	0.41
42:KI:7:VAL:HG11	42:KI:153:LEU:HD21	2.02	0.41
42:KM:248:LEU:O	42:KM:355:ILE:N	2.52	0.41
41:KN:398:TYR:HA	41:KN:401:GLU:OE2	2.20	0.41
42:LE:172:TYR:OH	42:LE:387:ALA:O	2.25	0.41
41:LF:313:VAL:N	41:LF:348:ASN:O	2.50	0.41
42:LG:191:THR:HA	42:LG:194:THR:HG22	2.01	0.41
42:LG:259:LEU:HD23	42:LG:259:LEU:HA	1.93	0.41
41:MD:21:TRP:HZ3	41:MD:50:TYR:O	2.03	0.41
41:MD:284:LEU:HD12	41:MD:284:LEU:HA	1.92	0.41
41:MH:294:PHE:HD2	41:MH:333:VAL:HG21	1.85	0.41
41:MJ:261:PRO:HG3	42:MK:406:HIS:CD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:MK:244:PHE:O	42:MK:356:ASN:ND2	2.53	0.41
41:MN:271:ALA:HB3	41:MN:272:PRO:HD3	2.02	0.41
42:NA:62:VAL:HG21	42:NA:88:HIS:CD2	2.55	0.41
42:NA:274:PRO:CG	42:NA:374:ALA:HA	2.50	0.41
42:NC:1:MET:HB3	42:NC:2:ARG:H	1.56	0.41
41:ND:117:LEU:HD13	41:ND:117:LEU:HA	1.63	0.41
41:NF:272:PRO:HD3	41:NF:364:SER:HA	2.02	0.41
42:NG:50:ASN:O	42:NG:51:THR:C	2.58	0.41
42:NG:115:ILE:HD13	42:NG:152:LEU:HG	2.00	0.41
41:NH:338:SER:O	41:NH:339:SER:C	2.57	0.41
41:NH:363:MET:HE3	41:NH:363:MET:HB3	1.69	0.41
42:NI:110:ILE:O	42:NI:111:GLY:C	2.58	0.41
41:NJ:19:LYS:HG3	41:NJ:226:ASN:HB2	2.01	0.41
41:NL:4:ILE:O	41:NL:62:ARG:NH2	2.54	0.41
41:OB:389:PHE:O	41:OB:390:ARG:C	2.58	0.41
42:OC:2:ARG:HB2	42:OC:133:GLN:OE1	2.20	0.41
42:OC:147:SER:HB2	42:OC:190:THR:HB	2.01	0.41
41:OD:148:GLY:O	41:OD:152:ILE:N	2.52	0.41
42:OE:261:PRO:HA	41:OF:394:PHE:CD1	2.55	0.41
41:OH:7:LEU:HB2	41:OH:135:LEU:HD12	2.02	0.41
41:OH:242:PHE:HB3	41:OH:356:ILE:HG13	2.02	0.41
41:OH:252:LYS:HG2	42:OI:101:ASN:OD1	2.20	0.41
42:OI:91:GLN:HB3	42:OI:121:ARG:HH12	1.84	0.41
42:OI:328:VAL:O	42:OI:332:ILE:HG12	2.20	0.41
42:OK:261:PRO:HA	41:OL:394:PHE:CD1	2.56	0.41
42:PA:6:SER:HB3	42:PA:138:PHE:CE2	2.55	0.41
42:PA:119:LEU:HD11	42:PA:156:ARG:CZ	2.50	0.41
42:PA:279:GLU:O	42:PA:281:ALA:N	2.53	0.41
42:PA:279:GLU:C	42:PA:281:ALA:H	2.23	0.41
41:PB:6:HIS:CD2	41:PB:8:GLN:HG3	2.55	0.41
41:PD:174:LYS:CB	41:PD:205:GLU:HB2	2.49	0.41
41:PD:246:LEU:HB3	41:PD:352:ALA:HA	2.02	0.41
42:PE:50:ASN:O	42:PE:52:PHE:N	2.53	0.41
42:PE:237:SER:HB3	42:PE:376:CYS:HB2	2.01	0.41
41:PF:58:LYS:O	41:PF:59:TYR:C	2.57	0.41
41:PF:188:SER:O	41:PF:189:VAL:C	2.58	0.41
41:PF:241:ARG:HB2	41:PF:242:PHE:H	1.56	0.41
41:PF:326:VAL:O	41:PF:329:GLN:HG3	2.20	0.41
41:PF:398:TYR:HB3	41:PF:408:PHE:CZ	2.55	0.41
42:PG:28:HIS:HB2	42:PG:30:ILE:CD1	2.50	0.41
42:PG:130:THR:OG1	42:PG:131:GLY:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:PG:212:ILE:HG13	42:PG:215:ARG:HH11	1.85	0.41
42:PG:218:ASP:O	42:PG:219:ILE:C	2.59	0.41
42:PG:258:ASN:OD1	41:PH:179:VAL:N	2.43	0.41
42:PG:298:PRO:HB2	42:PG:299:ALA:H	1.68	0.41
41:PH:53:GLU:HG3	41:PH:54:ALA:N	2.35	0.41
41:PH:86:ARG:HB3	41:PH:89:ASN:ND2	2.34	0.41
41:PH:105:HIS:CD2	41:PH:150:LEU:HB2	2.55	0.41
41:PH:107:THR:O	41:PH:109:GLY:N	2.53	0.41
41:PJ:103:LYS:HA	41:PJ:103:LYS:HD2	1.41	0.41
41:PJ:140:GLY:O	41:PJ:181:GLU:HG2	2.20	0.41
42:PK:15:GLN:HB2	45:PK:501:GTP:N2	2.22	0.41
42:PK:259:LEU:O	42:PK:260:VAL:C	2.58	0.41
41:QB:274:THR:HB	41:QB:282:ARG:HH11	1.85	0.41
41:QB:311:LEU:HA	41:QB:311:LEU:HD23	1.78	0.41
41:QF:177:ASP:OD1	41:QF:177:ASP:N	2.49	0.41
41:QH:181:GLU:HG3	41:QH:182:PRO:HD2	2.02	0.41
42:QK:332:ILE:HG23	42:QK:351:PHE:HE2	1.84	0.41
41:QL:320:ARG:HA	41:QL:320:ARG:HD3	1.49	0.41
41:RB:184:ASN:HA	41:RB:187:LEU:HG	2.01	0.41
42:RC:303:VAL:HG13	42:RC:305:CYS:H	1.84	0.41
41:RD:162:ARG:O	41:RD:164:MET:N	2.53	0.41
41:RF:392:LYS:HD2	41:RF:395:LEU:HD12	2.01	0.41
42:RG:439:SER:H	41:RH:391:ARG:NH2	2.18	0.41
41:RH:266:PHE:CD2	41:RH:368:ILE:HD11	2.55	0.41
41:RL:194:GLU:OE1	41:RL:195:ASN:ND2	2.52	0.41
42:SC:121:ARG:HH12	42:SC:124:LYS:HD3	1.85	0.41
42:SC:205:ASP:OD1	42:SC:207:GLU:N	2.53	0.41
42:SC:261:PRO:HA	41:SD:394:PHE:CD1	2.55	0.41
42:SC:384:ILE:HG23	42:SC:388:TRP:CZ3	2.55	0.41
41:SD:148:GLY:HA2	41:SD:151:LEU:HB2	2.02	0.41
42:SE:30:ILE:HG12	42:SE:61:HIS:HB2	2.01	0.41
42:SE:312:TYR:O	42:SE:313:MET:C	2.58	0.41
42:SE:320:ARG:N	42:SE:374:ALA:O	2.53	0.41
41:SF:48:ASN:O	41:SF:62:ARG:NH1	2.53	0.41
42:SG:107:HIS:HA	42:SG:152:LEU:HD12	2.01	0.41
41:SH:178:THR:HB	41:SH:181:GLU:HG2	2.02	0.41
42:SK:274:PRO:HD3	42:SK:291:ILE:HD11	2.02	0.41
41:SL:31:ASP:O	41:SL:33:THR:N	2.53	0.41
41:TD:267:MET:HA	41:TD:268:PRO:HD3	1.97	0.41
42:TE:352:LYS:HE2	41:TF:178:THR:HG22	2.01	0.41
42:TE:368:LEU:HA	42:TE:368:LEU:HD23	1.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:TF:48:ASN:O	41:TF:62:ARG:NH2	2.53	0.41
41:TF:232:THR:HG21	41:TF:268:PRO:HB3	2.03	0.41
42:TI:372:GLN:H	42:TI:372:GLN:HG3	1.57	0.41
41:TJ:194:GLU:OE2	41:TJ:195:ASN:ND2	2.53	0.41
42:TM:155:GLU:HG3	42:TM:156:ARG:HD2	2.01	0.41
41:UD:209:ASP:HA	41:UD:212:PHE:CE1	2.55	0.41
41:UF:254:ALA:O	41:UF:258:VAL:HG12	2.20	0.41
42:UG:326:LYS:NZ	41:UH:220:PRO:HD2	2.35	0.41
42:UK:238:ILE:HG23	42:UK:255:PHE:CE2	2.55	0.41
41:UL:87:PRO:HD3	41:VL:281:TYR:HE1	1.85	0.41
41:UL:267:MET:HE2	41:UL:299:MET:HG2	2.02	0.41
42:VC:171:ILE:HG13	45:VC:501:GTP:HN22	1.85	0.41
42:VE:245:ASP:OD1	42:VE:246:GLY:N	2.53	0.41
41:VF:161:ASP:O	41:VF:251:ARG:NH2	2.53	0.41
42:VG:108:TYR:OH	42:VG:413:MET:HB2	2.21	0.41
42:VG:195:LEU:HD12	42:VG:266:HIS:HE1	1.85	0.41
42:VG:269:LEU:HD23	42:VG:269:LEU:HA	1.80	0.41
41:VJ:350:LYS:NZ	41:VJ:351:THR:O	2.52	0.41
41:VJ:423:GLN:OE1	41:VJ:426:GLN:HG2	2.20	0.41
42:VK:434:GLU:HA	42:VK:437:MET:HE3	2.02	0.41
42:WE:228:ASN:HA	42:WE:231:ILE:HD12	2.02	0.41
41:WF:10:GLY:O	41:WF:11:GLN:C	2.59	0.41
42:WG:367:ASP:N	42:WG:367:ASP:OD1	2.52	0.41
41:WH:5:VAL:HG23	41:WH:130:LEU:HD11	2.03	0.41
41:WH:252:LYS:HA	41:WH:255:VAL:HG22	2.02	0.41
42:WI:339:ARG:O	42:WI:340:THR:C	2.57	0.41
41:WJ:320:ARG:NH1	41:WJ:355:ASP:OD1	2.46	0.41
9:2D:567:TYR:CD2	41:IN:276:ARG:NH1	2.87	0.41
14:2Y:125:ARG:HH21	42:MM:401:LYS:HA	1.85	0.41
19:3K:283:ASP:OD1	19:3K:284:GLY:N	2.54	0.41
19:3L:263:ILE:HB	19:3L:276:ARG:HB3	2.02	0.41
19:3L:421:ARG:NH2	42:EK:41:THR:OG1	2.53	0.41
19:3L:422:TYR:HE2	19:3L:490:PHE:HB3	1.85	0.41
20:3P:472:VAL:HG11	20:3P:501:VAL:HA	2.03	0.41
21:3T:212:LYS:HE2	41:VF:83:GLN:HE22	1.85	0.41
22:3Y:58:LEU:HD12	22:3Y:58:LEU:HA	1.91	0.41
22:4A:95:PHE:HB2	41:AJ:48:ASN:ND2	2.36	0.41
22:4B:34:THR:HG22	22:4B:35:TYR:H	1.84	0.41
24:4F:102:ARG:HH22	41:HD:33:THR:HG1	1.65	0.41
24:4G:465:PRO:HD2	24:4G:468:VAL:HG21	2.01	0.41
27:4O:203:LYS:HG2	27:4O:221:ILE:HB	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:4R:150:ILE:HA	27:4R:153:ILE:HD11	2.02	0.41
27:4R:207:SER:O	27:4R:210:GLY:N	2.48	0.41
27:4T:196:ILE:HG23	27:4T:200:PHE:CE2	2.52	0.41
31:5G:80:LEU:HD21	31:5G:148:LEU:HD21	2.02	0.41
33:5W:118:THR:OG1	35:6U:413:GLU:HG2	2.20	0.41
34:6C:104:LEU:HD12	34:6C:104:LEU:HA	1.84	0.41
34:6F:389:LYS:NZ	34:6G:135:THR:OG1	2.53	0.41
34:6F:406:ARG:HD2	34:6F:410:GLU:HG3	2.02	0.41
34:6G:416:ALA:O	34:6G:420:LEU:HD23	2.20	0.41
34:6H:236:TYR:HA	34:6H:239:LYS:HG2	2.01	0.41
34:6H:476:MET:N	34:6H:476:MET:SD	2.93	0.41
34:6K:128:ILE:HD11	34:6L:382:ILE:HD13	2.01	0.41
34:6K:157:LYS:O	34:6K:161:ILE:HG12	2.20	0.41
34:6K:297:PRO:HG3	34:6L:414:ASP:HA	2.02	0.41
34:6L:177:ILE:HD13	34:6L:322:ARG:HD3	2.03	0.41
34:6L:452:LYS:HB3	34:6L:452:LYS:HE3	1.56	0.41
34:6L:462:LYS:HA	34:6L:462:LYS:HD3	1.85	0.41
35:6Q:252:SER:HB2	35:6Q:256:THR:HG23	2.02	0.41
35:6V:300:VAL:HG13	35:6V:434:ARG:NH1	2.35	0.41
38:7H:181:TYR:CD1	41:ID:291:GLN:HB2	2.55	0.41
41:AB:64:VAL:HA	41:AB:89:ASN:HB3	2.03	0.41
41:AB:149:THR:HG21	41:AB:190:HIS:CD2	2.55	0.41
41:AF:152:ILE:HG22	41:AF:195:ASN:HB3	2.01	0.41
42:AG:211:ASP:HB3	42:AG:215:ARG:CZ	2.50	0.41
42:AG:212:ILE:HG23	42:AG:216:ASN:HD22	1.84	0.41
41:AH:73:MET:C	41:AH:75:SER:H	2.24	0.41
41:AH:266:PHE:HB3	41:AH:368:ILE:HG22	2.02	0.41
41:AL:213:ARG:HE	41:AL:297:LYS:HD3	1.84	0.41
41:BB:304:ASP:CG	41:BB:307:HIS:HD1	2.24	0.41
41:BB:316:VAL:HG22	41:BB:352:ALA:HB3	2.01	0.41
41:BD:150:LEU:HD12	41:BD:150:LEU:HA	1.86	0.41
41:BD:222:TYR:HD1	41:BD:222:TYR:HA	1.75	0.41
41:BF:313:VAL:HA	41:BF:369:GLY:HA2	2.03	0.41
42:BG:136:LEU:HD22	42:BG:169:PHE:HE2	1.85	0.41
42:BK:88:HIS:HE1	42:CK:280:LYS:HB2	1.85	0.41
41:CB:101:TRP:CD1	41:CB:145:SER:HB3	2.55	0.41
42:CC:15:GLN:C	42:CC:17:GLY:N	2.74	0.41
42:CC:172:TYR:CD1	42:CC:173:PRO:HD2	2.55	0.41
42:CC:176:GLN:H	42:CC:176:GLN:HG2	1.44	0.41
42:CC:402:ARG:HG2	42:CC:405:VAL:HG21	2.02	0.41
41:CF:27:GLU:C	41:CF:29:GLY:H	2.23	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:CF:257:MET:HE3	41:CF:257:MET:HB3	1.87	0.41
41:CF:257:MET:HG3	41:CF:266:PHE:CZ	2.56	0.41
42:CG:319:TYR:HB3	42:CG:320:ARG:H	1.73	0.41
41:CH:240:LEU:HD23	41:CH:249:ASP:HA	2.02	0.41
42:CI:50:ASN:O	42:CI:64:ARG:NH1	2.53	0.41
42:CI:119:LEU:HD23	42:CI:119:LEU:HA	1.87	0.41
41:CJ:154:LYS:HZ3	41:CJ:154:LYS:HG2	1.74	0.41
42:CM:11:GLN:HE22	42:CM:74:VAL:HG21	1.85	0.41
42:CM:360:PRO:HG3	42:CM:374:ALA:HB2	2.03	0.41
41:DH:39:ASP:O	41:DH:40:SER:C	2.58	0.41
41:DH:102:ALA:C	41:DH:104:GLY:H	2.22	0.41
41:DH:252:LYS:HD2	42:DI:100:ALA:HB3	2.01	0.41
41:DJ:122:LYS:HA	41:DJ:122:LYS:HD2	1.61	0.41
41:DJ:395:LEU:O	41:DJ:396:HIS:C	2.59	0.41
42:DK:115:ILE:HG23	42:DK:156:ARG:HH22	1.85	0.41
42:DK:174:ALA:HB3	42:DK:177:VAL:HG12	2.02	0.41
42:DK:220:GLU:O	42:DK:221:ARG:HB2	2.20	0.41
41:DL:68:LEU:HD12	41:DL:143:THR:HB	2.01	0.41
42:DM:336:LYS:HE2	42:DM:336:LYS:HB2	1.94	0.41
41:ED:403:MET:HB3	41:ED:404:ASP:H	1.45	0.41
42:EE:275:VAL:CA	42:EE:368:LEU:HD21	2.40	0.41
41:EF:116:VAL:HG11	41:EF:151:LEU:HD11	2.01	0.41
41:EF:117:LEU:HA	41:EF:120:VAL:HG22	2.01	0.41
41:EF:201:CYS:O	41:EF:301:ALA:HB2	2.20	0.41
41:EF:318:ARG:HB2	41:EF:364:SER:OG	2.20	0.41
42:EG:27:GLU:HG2	42:EG:361:THR:OG1	2.21	0.41
42:EG:63:PRO:HD3	42:EG:86:LEU:HG	2.01	0.41
41:EH:198:GLU:HG3	41:EH:266:PHE:CE1	2.55	0.41
41:EH:212:PHE:CE1	41:EH:218:THR:HB	2.55	0.41
42:EI:99:ALA:O	42:EI:144:GLY:HA3	2.20	0.41
42:EK:262:TYR:OH	41:EL:391:ARG:HB3	2.21	0.41
42:EM:23:LEU:O	42:EM:24:TYR:C	2.58	0.41
42:FC:417:GLU:O	42:FC:418:PHE:C	2.57	0.41
41:FD:263:LEU:HD13	41:FD:263:LEU:HA	1.80	0.41
41:FD:426:GLN:HE21	41:FD:427:ASP:H	1.66	0.41
42:FE:52:PHE:HE2	42:FE:239:THR:HG21	1.86	0.41
42:FE:117:LEU:HD12	42:FE:117:LEU:HA	1.93	0.41
42:FE:417:GLU:HA	42:FE:420:GLU:HB2	2.02	0.41
42:FE:431:ASP:O	42:FE:435:VAL:HG22	2.19	0.41
41:FH:211:CYS:HA	41:FH:215:LEU:HB2	2.03	0.41
42:FI:236:SER:O	42:FI:240:ALA:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:GG:12:ALA:O	42:GG:16:ILE:HG12	2.20	0.41
42:GK:70:LEU:HD12	42:GK:145:THR:HB	2.02	0.41
42:GM:21:TRP:HZ2	42:GM:65:ALA:HB2	1.84	0.41
41:HB:341:PHE:HB3	41:HB:348:ASN:HD22	1.85	0.41
42:HC:183:GLU:HA	42:HC:186:ASN:ND2	2.34	0.41
41:HD:120:VAL:O	41:HD:121:ARG:C	2.58	0.41
41:HD:393:ALA:O	41:HD:394:PHE:C	2.58	0.41
42:HE:67:PHE:HB2	42:HE:92:LEU:HD23	2.02	0.41
42:HE:172:TYR:N	42:HE:204:VAL:O	2.52	0.41
41:HF:100:ASN:O	41:HF:104:GLY:N	2.49	0.41
42:HG:265:ILE:O	42:HG:265:ILE:HG13	2.19	0.41
41:HH:199:THR:HB	41:HH:265:PHE:CD1	2.55	0.41
41:HJ:66:VAL:HG21	41:HJ:147:MET:HG2	2.02	0.41
41:HJ:87:PRO:CG	41:IJ:278:SER:HB3	2.50	0.41
41:HJ:174:LYS:HB2	41:HJ:175:VAL:H	1.64	0.41
42:HK:56:THR:HA	42:IK:285:GLN:HB3	2.02	0.41
41:IH:391:ARG:HA	41:IH:391:ARG:HD2	1.81	0.41
42:IK:255:PHE:HE1	42:IK:378:LEU:HD12	1.85	0.41
41:IL:118:ASP:OD1	41:IL:119:VAL:N	2.53	0.41
41:IL:145:SER:OG	41:IL:188:SER:OG	2.31	0.41
41:IN:174:LYS:HA	41:IN:174:LYS:HD2	1.79	0.41
41:JD:319:GLY:HA2	41:JD:357:PRO:HD3	2.02	0.41
42:JE:261:PRO:O	41:JF:396:HIS:NE2	2.51	0.41
41:JF:309:ARG:NH2	41:JF:339:SER:O	2.54	0.41
42:JG:150:THR:O	42:JG:154:MET:HG2	2.20	0.41
42:JI:260:VAL:HG23	41:JJ:397:TRP:HE1	1.84	0.41
42:JK:246:GLY:HA2	42:JK:357:TYR:CG	2.55	0.41
41:JL:67:ASP:HA	41:JL:143:THR:HG21	2.01	0.41
41:JL:318:ARG:HE	41:JL:358:PRO:HD3	1.85	0.41
42:JM:132:LEU:HD13	42:JM:132:LEU:HA	1.83	0.41
41:KD:40:SER:OG	41:KD:41:ASP:N	2.54	0.41
42:KK:16:ILE:HA	42:KK:228:ASN:HB3	2.01	0.41
42:KK:189:LEU:HD11	42:KK:418:PHE:CD1	2.55	0.41
42:KK:278:ALA:HA	42:KK:369:ALA:HB2	2.01	0.41
41:KL:52:ASN:N	41:KL:60:VAL:O	2.49	0.41
41:KN:8:GLN:OE1	41:KN:14:ASN:HA	2.21	0.41
42:LE:317:LEU:HD22	42:LE:332:ILE:HD11	2.01	0.41
42:LI:172:TYR:CZ	42:LI:391:LEU:HD13	2.54	0.41
42:LK:106:GLY:O	42:LK:111:GLY:HA3	2.20	0.41
41:LN:389:PHE:HD1	41:LN:395:LEU:HD21	1.85	0.41
41:MD:250:LEU:HD23	41:MD:250:LEU:HA	1.72	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:MD:286:VAL:HG23	41:MD:363:MET:HE1	2.02	0.41
42:ME:225:THR:O	42:ME:229:ARG:HG2	2.21	0.41
42:MG:114:LEU:O	42:MG:118:VAL:HG23	2.20	0.41
42:MG:191:THR:HG22	42:MG:195:LEU:HD22	2.02	0.41
41:MH:51:TYR:HB3	41:MH:59:TYR:HB3	2.03	0.41
41:MH:330:MET:SD	41:MH:349:VAL:HG11	2.60	0.41
41:ML:252:LYS:HA	42:MM:100:ALA:HB1	2.01	0.41
41:ML:275:SER:HB2	41:ML:278:SER:HB3	2.02	0.41
41:MN:20:PHE:HA	41:MN:230:SER:OG	2.20	0.41
41:MN:215:LEU:O	41:MN:217:LEU:N	2.53	0.41
41:NB:293:MET:HG2	41:NB:367:PHE:HB2	2.01	0.41
42:NC:88:HIS:CD2	42:NC:88:HIS:H	2.37	0.41
42:NC:94:THR:HB	42:NC:95:GLY:H	1.55	0.41
41:ND:187:LEU:HD11	41:ND:407:GLU:HG3	2.01	0.41
42:NG:70:LEU:HD22	42:NG:110:ILE:HG22	2.02	0.41
42:NG:177:VAL:HB	42:NG:207:GLU:HG2	2.02	0.41
42:NG:221:ARG:HE	42:NG:221:ARG:HB3	1.30	0.41
42:NI:112:LYS:HD3	42:NI:115:ILE:HG13	2.01	0.41
42:NI:188:ILE:HG23	42:NI:425:MET:HG2	2.02	0.41
42:NI:269:LEU:HB3	42:NI:270:ALA:H	1.78	0.41
42:NK:88:HIS:O	42:NK:91:GLN:HG2	2.20	0.41
41:NL:43:GLN:HG3	41:NL:242:PHE:CE1	2.54	0.41
41:NL:68:LEU:HD13	41:NL:97:ALA:HB2	2.02	0.41
42:OA:174:ALA:HB1	42:OA:207:GLU:HG3	2.01	0.41
41:OB:236:VAL:HG23	41:OB:237:THR:HG23	2.02	0.41
42:OC:138:PHE:HZ	42:OC:235:VAL:HG11	1.85	0.41
41:OD:156:ARG:NH2	41:OD:162:ARG:O	2.54	0.41
42:OG:75:ILE:H	42:OG:75:ILE:HG12	1.63	0.41
42:OG:98:ASP:O	42:OG:99:ALA:C	2.59	0.41
41:OJ:207:LEU:HD22	41:OJ:228:LEU:HD13	2.01	0.41
41:OL:61:PRO:HD3	41:OL:84:ILE:HG13	2.02	0.41
42:PA:60:LYS:O	42:PA:61:HIS:C	2.58	0.41
42:PA:217:LEU:HA	42:PA:277:SER:HB3	2.01	0.41
42:PA:266:HIS:O	42:PA:268:PRO:HD3	2.20	0.41
41:PB:158:GLU:HB3	41:PB:159:TYR:H	1.68	0.41
42:PC:8:HIS:O	42:PC:9:VAL:C	2.58	0.41
42:PC:377:MET:HE3	42:PC:377:MET:HB3	1.79	0.41
41:PD:156:ARG:HH22	41:PD:162:ARG:H	1.67	0.41
41:PH:42:LEU:HD23	41:PH:243:PRO:HG2	2.03	0.41
42:PI:152:LEU:HD23	42:PI:152:LEU:HA	1.82	0.41
42:PI:238:ILE:HD12	42:PI:318:LEU:HD13	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:PI:327:ASP:O	42:PI:328:VAL:C	2.59	0.41
41:PJ:95:SER:OG	41:PJ:96:GLY:N	2.53	0.41
41:PJ:127:CYS:SG	41:PJ:130:LEU:HB2	2.60	0.41
41:PJ:398:TYR:O	41:PJ:399:THR:C	2.58	0.41
41:PL:208:TYR:CE1	41:PL:225:LEU:HD11	2.55	0.41
41:PL:411:ALA:O	41:PL:412:GLU:C	2.58	0.41
41:QF:200:TYR:CE1	41:QF:266:PHE:HB2	2.55	0.41
42:QG:133:GLN:NE2	42:QG:251:ASP:OD2	2.54	0.41
42:QG:316:CYS:HA	42:QG:352:LYS:HB3	2.02	0.41
41:QH:16:ILE:O	41:QH:20:PHE:HB3	2.21	0.41
41:QH:164:MET:HE3	41:QH:164:MET:HB2	1.96	0.41
42:QI:399:TYR:HD2	42:QI:399:TYR:HA	1.76	0.41
42:QK:126:ALA:O	42:QK:127:ASP:C	2.58	0.41
42:RC:261:PRO:HG2	42:RC:265:ILE:HG21	2.02	0.41
42:RC:276:ILE:HD11	42:RC:280:LYS:HG2	2.01	0.41
41:RD:374:ILE:O	41:RD:377:LEU:HB2	2.20	0.41
41:RF:153:SER:HB3	41:RF:191:GLN:NE2	2.36	0.41
41:RF:202:ILE:H	41:RF:202:ILE:HG13	1.30	0.41
41:RF:248:ALA:HB2	41:RF:352:ALA:CB	2.50	0.41
41:RF:398:TYR:HD2	41:RF:408:PHE:HE1	1.69	0.41
41:RF:415:MET:O	41:RF:419:VAL:HG23	2.20	0.41
41:RH:50:TYR:CE1	41:RH:241:ARG:HD3	2.55	0.41
41:RJ:201:CYS:HB3	41:RJ:374:ILE:HD11	2.02	0.41
42:SC:132:LEU:HD12	42:SC:135:PHE:HE1	1.86	0.41
42:SC:188:ILE:HD13	42:SC:395:PHE:CD1	2.55	0.41
42:SC:326:LYS:HE2	41:SD:219:THR:HA	2.02	0.41
41:SD:335:ASN:O	41:SD:338:SER:OG	2.35	0.41
42:SE:124:LYS:H	42:SE:124:LYS:HG2	1.46	0.41
42:SE:257:THR:OG1	42:SE:258:ASN:N	2.54	0.41
42:SE:363:VAL:HG22	42:SE:366:GLY:H	1.85	0.41
41:SF:152:ILE:CG2	41:SF:195:ASN:HB3	2.50	0.41
41:SF:163:ILE:HG12	41:SF:251:ARG:HH21	1.84	0.41
41:SF:246:LEU:HD22	41:SF:246:LEU:HA	1.77	0.41
41:SF:294:PHE:O	41:SF:295:ASP:C	2.58	0.41
42:SI:5:ILE:H	42:SI:5:ILE:HG12	1.41	0.41
42:SI:89:PRO:O	42:SI:92:LEU:N	2.54	0.41
42:SI:166:LYS:O	42:SI:168:GLU:HG2	2.21	0.41
42:SI:399:TYR:CZ	42:SI:418:PHE:HB2	2.55	0.41
41:SJ:323:MET:HA	41:SJ:326:VAL:HB	2.03	0.41
42:SK:139:HIS:CE1	42:SK:150:THR:HG21	2.55	0.41
41:SL:7:LEU:HA	41:SL:64:VAL:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:SL:43:GLN:HA	41:SL:242:PHE:CE1	2.55	0.41
42:TI:353:VAL:HB	41:TJ:177:ASP:HB3	2.02	0.41
42:TI:384:ILE:HD12	42:TI:384:ILE:HA	1.88	0.41
42:TK:119:LEU:HD13	42:TK:119:LEU:HA	1.87	0.41
41:TL:230:SER:HA	41:TL:233:MET:HG2	2.01	0.41
42:TM:419:SER:HA	42:TM:422:ARG:HB3	2.02	0.41
42:UC:109:THR:HB	42:UC:110:ILE:H	1.68	0.41
41:UD:5:VAL:HG13	41:UD:62:ARG:HG2	2.01	0.41
41:UD:62:ARG:HD3	41:UD:123:GLU:HB3	2.02	0.41
41:UH:406:MET:SD	41:UH:409:THR:OG1	2.74	0.41
42:UI:55:GLU:OE1	42:UI:61:HIS:NE2	2.54	0.41
42:UI:185:TYR:HE2	42:UI:404:PHE:HB2	1.85	0.41
42:UI:218:ASP:OD1	42:UI:218:ASP:N	2.53	0.41
42:UI:241:SER:HB3	42:UI:249:ASN:OD1	2.20	0.41
42:VC:316:CYS:SG	42:VC:378:LEU:HB2	2.61	0.41
42:VI:7:VAL:HG23	42:VI:66:VAL:HG13	2.03	0.41
42:VI:139:HIS:HE1	42:VI:141:PHE:HE1	1.69	0.41
41:VJ:46:ARG:NH2	42:VK:72:PRO:O	2.50	0.41
41:VJ:324:LYS:HZ3	42:VK:222:PRO:N	2.17	0.41
42:VK:296:PHE:CD1	42:VK:335:ILE:HG21	2.56	0.41
41:VL:17:GLY:HA2	41:VL:20:PHE:HB3	2.02	0.41
42:WC:131:GLY:O	42:WC:133:GLN:HG3	2.20	0.41
42:WC:288:VAL:HG21	42:WC:323:VAL:HG13	2.03	0.41
42:WE:3:GLU:HA	42:WE:51:THR:HA	2.02	0.41
42:WE:420:GLU:HA	42:WE:423:GLU:CD	2.41	0.41
41:WF:27:GLU:HA	41:WF:359:ARG:HD3	2.01	0.41
42:WG:207:GLU:O	42:WG:210:TYR:HB2	2.20	0.41
42:WG:332:ILE:HG23	42:WG:351:PHE:HD1	1.85	0.41
41:WH:345:ILE:O	41:WH:346:PRO:C	2.57	0.41
41:WH:421:GLU:HA	41:WH:424:GLN:HE21	1.84	0.41
42:WI:350:GLY:H	41:WJ:179:VAL:HG23	1.86	0.41
41:WJ:142:GLY:O	41:WJ:146:GLY:N	2.53	0.41
41:WL:21:TRP:O	41:WL:25:SER:OG	2.31	0.41
41:WL:103:LYS:O	41:WL:108:GLU:HB3	2.20	0.41
41:WN:22:GLU:HG2	41:WN:81:PHE:HB2	2.01	0.41
8:2A:115:LYS:HG3	42:AI:264:ARG:HG3	2.02	0.41
9:2D:332:PRO:HD2	41:HF:57:GLY:HA3	2.03	0.41
20:3N:79:SER:HB2	41:BB:361:LEU:HD21	2.02	0.41
20:3N:258:ARG:HA	41:DB:277:GLY:HA3	2.01	0.41
20:3O:8:LYS:HE3	42:KG:2:ARG:HH22	1.85	0.41
20:3O:491:GLU:O	20:3O:493:LEU:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:3V:75:LEU:HD12	42:LM:402:ARG:HE	1.85	0.41
22:4C:181:PHE:HB3	22:4C:196:PHE:HE2	1.86	0.41
26:4M:80:LEU:O	26:4M:84:ARG:NH1	2.54	0.41
27:4O:47:MET:HE3	27:4O:47:MET:HB3	1.90	0.41
27:4P:213:TYR:HA	41:WF:122:LYS:HD2	2.03	0.41
27:4Q:87:HIS:CG	42:WG:132:LEU:HB3	2.55	0.41
28:4W:82:TYR:HB3	28:4W:85:SER:HB3	2.01	0.41
31:5I:68:LEU:HD12	31:5I:68:LEU:HA	1.95	0.41
33:5Q:13:ARG:HB3	33:5Q:15:PRO:HD2	2.02	0.41
33:5S:168:ALA:O	33:5S:172:LEU:HB2	2.21	0.41
33:5W:35:SER:O	33:5W:39:ARG:HG3	2.21	0.41
33:5W:45:LEU:O	33:5W:46:ARG:C	2.59	0.41
33:5W:95:MET:HG3	33:5W:243:ILE:HG21	2.03	0.41
33:5W:392:ASP:HB3	34:6L:341:ASN:OD1	2.20	0.41
33:5X:68:ILE:HD13	33:5X:68:ILE:HA	1.96	0.41
34:6A:226:ILE:HG23	34:6A:336:MET:HE1	2.01	0.41
34:6B:94:TYR:O	34:6C:212:HIS:N	2.52	0.41
34:6F:388:GLU:HA	35:6V:35:ALA:HB2	2.01	0.41
34:6L:472:LYS:HD2	34:6L:472:LYS:HA	1.49	0.41
35:6V:350:LEU:O	35:6V:354:GLN:HG2	2.20	0.41
35:6W:254:PRO:O	35:6W:257:TRP:HB3	2.19	0.41
37:7D:19:ILE:HD12	37:7D:19:ILE:HA	1.97	0.41
37:7D:68:PRO:HD3	42:SC:123:ARG:NH2	2.35	0.41
37:7F:48:ALA:HB1	41:OD:329:GLN:HA	2.01	0.41
38:7H:197:ARG:HA	38:7H:197:ARG:HD3	1.77	0.41
40:7N:388:HIS:O	40:7N:392:LYS:HG2	2.19	0.41
41:AB:374:ILE:HD11	41:AB:377:LEU:HD13	2.02	0.41
41:AD:317:PHE:HB2	41:AD:353:VAL:HG22	2.01	0.41
41:AH:73:MET:HG2	41:AH:92:PHE:HB3	2.01	0.41
41:AH:272:PRO:HD3	41:AH:364:SER:HA	2.02	0.41
42:AI:298:PRO:HG3	42:AI:308:ARG:HE	1.86	0.41
41:AJ:21:TRP:HA	41:AJ:24:ILE:HG22	2.01	0.41
41:AJ:105:HIS:ND1	41:AJ:150:LEU:HD12	2.36	0.41
42:AK:1:MET:HE3	41:AL:94:GLN:HA	2.00	0.41
42:BC:174:ALA:O	42:BC:390:ARG:NH1	2.53	0.41
42:BE:199:ASP:HB3	42:BE:256:GLN:NE2	2.35	0.41
42:BG:402:ARG:HD2	42:BG:405:VAL:HG21	2.02	0.41
41:BH:36:TYR:OH	41:BH:40:SER:O	2.37	0.41
42:BI:157:LEU:HD22	42:BI:161:TYR:CE1	2.54	0.41
42:BK:217:LEU:HG	42:BK:219:ILE:HG23	2.02	0.41
41:CB:347:ASN:ND2	42:CC:180:ALA:O	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CC:89:PRO:HD3	42:DC:283:HIS:CG	2.55	0.41
42:CC:267:PHE:CG	42:CC:388:TRP:HZ2	2.38	0.41
41:CF:28:HIS:HB3	41:CF:47:ILE:CD1	2.49	0.41
41:CJ:271:ALA:HB3	41:CJ:272:PRO:HD3	2.02	0.41
41:CJ:342:VAL:CG1	41:CJ:345:ILE:HG13	2.50	0.41
41:CL:6:HIS:CE1	41:CL:136:THR:HG23	2.54	0.41
41:CL:178:THR:HG22	41:CL:180:VAL:H	1.85	0.41
42:CM:187:SER:HB2	42:CM:391:LEU:HD21	2.02	0.41
41:DB:239:CYS:HB2	41:DB:247:ASN:ND2	2.33	0.41
42:DC:140:SER:OG	45:DC:501:GTP:O1A	2.26	0.41
41:DD:7:LEU:O	41:DD:135:LEU:HA	2.21	0.41
42:DE:329:ASN:HD21	41:DF:205:GLU:HG2	1.85	0.41
41:DH:258:VAL:O	41:DH:258:VAL:HG13	2.21	0.41
41:DJ:241:ARG:HE	41:DJ:241:ARG:HB2	1.58	0.41
42:EE:69:ASP:N	42:EE:75:ILE:HD11	2.36	0.41
42:EE:278:ALA:O	42:EE:279:GLU:C	2.59	0.41
42:EE:401:LYS:HE2	42:EE:401:LYS:HB3	1.86	0.41
41:EF:193:VAL:HG21	41:EF:418:LEU:HD11	2.02	0.41
41:EJ:2:ARG:HE	41:EJ:2:ARG:HB2	1.71	0.41
41:EJ:179:VAL:HG13	41:EJ:180:VAL:HG23	2.02	0.41
42:EK:254:GLU:O	42:EK:255:PHE:C	2.58	0.41
42:EK:332:ILE:HG23	42:EK:351:PHE:CE2	2.56	0.41
41:EL:252:LYS:NZ	42:EM:101:ASN:OD1	2.54	0.41
42:EM:317:LEU:HD22	42:EM:375:VAL:HG21	2.02	0.41
41:FD:132:GLY:HA2	41:FD:162:ARG:HB3	2.03	0.41
41:FD:283:ALA:O	41:FD:285:THR:N	2.53	0.41
41:FD:336:LYS:HA	41:FD:336:LYS:HD3	1.71	0.41
41:FD:405:GLU:O	41:FD:406:MET:C	2.59	0.41
41:FF:269:GLY:O	41:FF:367:PHE:N	2.53	0.41
42:FG:396:ASP:OD1	42:FG:422:ARG:HD3	2.20	0.41
41:FJ:229:VAL:O	41:FJ:233:MET:HG3	2.21	0.41
41:FL:345:ILE:HG12	42:FM:397:LEU:O	2.21	0.41
42:GG:202:PHE:CE1	42:GG:378:LEU:HD22	2.54	0.41
41:GJ:302:ALA:O	41:GJ:303:CYS:C	2.59	0.41
42:GK:297:GLU:OE2	42:GK:300:ASN:ND2	2.54	0.41
42:HC:112:LYS:O	42:HC:113:GLU:C	2.58	0.41
42:HC:409:VAL:O	42:HC:411:GLU:N	2.54	0.41
41:HD:55:THR:O	41:HD:56:GLY:C	2.58	0.41
41:HD:130:LEU:HD12	41:HD:130:LEU:HA	1.89	0.41
41:HD:324:LYS:HB3	41:HD:324:LYS:HE3	1.46	0.41
42:HG:255:PHE:CE1	42:HG:318:LEU:HD13	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:HG:404:PHE:HD1	42:HG:407:TRP:HZ3	1.65	0.41
42:HI:149:PHE:CD1	42:HI:149:PHE:N	2.86	0.41
41:HJ:311:LEU:HD23	41:HJ:344:TRP:CZ2	2.55	0.41
42:HK:21:TRP:CZ2	42:HK:65:ALA:HB2	2.55	0.41
41:HL:316:VAL:HA	41:HL:352:ALA:HB3	2.03	0.41
42:HM:248:LEU:HG	42:HM:355:ILE:H	1.84	0.41
42:HM:317:LEU:HD13	42:HM:332:ILE:HD11	2.02	0.41
42:IE:298:PRO:HG3	42:IE:308:ARG:NH1	2.35	0.41
42:IE:425:MET:O	42:IE:429:GLU:HG2	2.20	0.41
42:IG:167:LEU:HD23	42:IG:202:PHE:HE2	1.84	0.41
42:II:16:ILE:HD11	42:II:171:ILE:HD11	2.01	0.41
42:II:254:GLU:HG2	41:IJ:98:GLY:HA2	2.02	0.41
41:IJ:310:TYR:CD1	41:IJ:371:SER:HB3	2.56	0.41
41:IJ:344:TRP:CE3	42:IK:401:LYS:HD2	2.55	0.41
42:IM:7:VAL:HG13	42:IM:66:VAL:HG13	2.03	0.41
42:IM:286:LEU:HD23	42:IM:286:LEU:HA	1.85	0.41
42:IM:325:PRO:HB2	41:IN:208:TYR:OH	2.21	0.41
42:IM:388:TRP:CZ3	42:IM:432:TYR:HE2	2.39	0.41
41:IN:271:ALA:HB1	41:IN:289:LEU:HG	2.02	0.41
41:IN:376:GLU:O	41:IN:377:LEU:C	2.59	0.41
42:JC:53:PHE:HB3	42:JC:61:HIS:HB3	2.02	0.41
41:JF:156:ARG:NH2	41:JF:197:ASP:OD1	2.53	0.41
41:JH:22:GLU:HB2	41:JH:81:PHE:CD2	2.56	0.41
41:JJ:12:CYS:SG	41:JJ:138:SER:HB3	2.61	0.41
42:JK:14:VAL:HG13	42:JK:67:PHE:HD2	1.85	0.41
42:JK:129:CYS:HB2	42:JK:132:LEU:HD23	2.02	0.41
42:JK:217:LEU:HA	42:JK:277:SER:OG	2.19	0.41
41:JL:102:ALA:O	41:JL:103:LYS:C	2.58	0.41
42:KE:186:ASN:OD1	42:KE:408:TYR:OH	2.29	0.41
42:KI:199:ASP:HB3	42:KI:256:GLN:NE2	2.35	0.41
41:KL:385:PHE:HZ	41:KL:408:PHE:HD2	1.69	0.41
42:KM:306:ASP:HB3	42:KM:309:HIS:CD2	2.56	0.41
41:KN:372:THR:OG1	41:KN:422:TYR:O	2.31	0.41
42:LC:126:ALA:HA	42:LC:129:CYS:SG	2.61	0.41
41:LD:426:GLN:O	41:LD:427:ASP:C	2.58	0.41
42:LE:172:TYR:HD2	42:LE:205:ASP:OD1	2.03	0.41
41:LF:239:CYS:SG	41:LF:247:ASN:HB3	2.60	0.41
42:LG:262:TYR:HB2	42:LG:265:ILE:HG12	2.03	0.41
41:LL:257:MET:HE2	41:LL:257:MET:HB3	1.81	0.41
42:MC:75:ILE:HG21	42:MC:94:THR:HB	2.03	0.41
42:MC:296:PHE:CD2	42:MC:312:TYR:HE2	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:MF:49:VAL:HG21	41:MF:240:LEU:HD12	2.02	0.41
41:MF:282:ARG:HA	41:MF:282:ARG:HD3	1.87	0.41
41:MF:285:THR:HG22	41:MF:287:PRO:HD2	2.02	0.41
42:MG:109:THR:OG1	42:MG:110:ILE:N	2.54	0.41
42:MG:324:VAL:HG23	42:MG:327:ASP:H	1.86	0.41
41:MJ:347:ASN:O	42:MK:181:VAL:HG23	2.20	0.41
42:MK:394:LYS:HE3	42:MK:394:LYS:HB2	1.87	0.41
41:ML:256:ASN:OD1	42:MM:181:VAL:HG22	2.21	0.41
42:MM:24:TYR:OH	42:MM:235:VAL:HG12	2.20	0.41
42:MM:167:LEU:HD21	42:MM:252:LEU:HD13	2.02	0.41
42:MM:256:GLN:O	42:MM:260:VAL:HG12	2.19	0.41
42:NA:100:ALA:O	42:NA:101:ASN:C	2.59	0.41
42:NA:422:ARG:HD2	42:NA:422:ARG:HA	1.71	0.41
41:NB:145:SER:HB2	41:NB:188:SER:HB2	2.03	0.41
41:ND:61:PRO:HG2	41:ND:85:PHE:HA	2.03	0.41
42:NE:83:TYR:HB3	42:NE:87:PHE:HE2	1.85	0.41
41:NF:2:ARG:HE	41:NF:2:ARG:H	1.68	0.41
41:NF:39:ASP:H	41:NF:43:GLN:NE2	2.18	0.41
42:NG:191:THR:O	42:NG:191:THR:OG1	2.34	0.41
41:NH:154:LYS:H	41:NH:154:LYS:HG2	1.53	0.41
41:NH:217:LEU:HA	41:NH:217:LEU:HD13	1.81	0.41
42:NI:93:ILE:H	42:NI:93:ILE:HG12	1.34	0.41
42:NK:172:TYR:CD1	42:NK:173:PRO:HD2	2.55	0.41
42:OA:269:LEU:HD22	42:OA:303:VAL:HG21	2.02	0.41
41:OB:62:ARG:HE	41:OB:62:ARG:HB2	1.58	0.41
41:OB:155:ILE:HA	41:OB:158:GLU:HG2	2.02	0.41
41:OB:411:ALA:HA	41:OB:414:ASN:HD21	1.85	0.41
42:OC:273:ALA:HB2	42:OC:295:CYS:SG	2.60	0.41
41:OD:324:LYS:HG2	42:OE:222:PRO:HD2	2.00	0.41
41:OH:53:GLU:H	41:OH:53:GLU:HG2	1.51	0.41
41:OH:226:ASN:HA	41:OH:229:VAL:HG23	2.02	0.41
41:OH:296:ALA:HB2	41:OH:306:ARG:HH12	1.84	0.41
41:OL:86:ARG:HH22	41:PL:280:GLN:N	2.18	0.41
42:PA:194:THR:O	42:PA:195:LEU:C	2.58	0.41
41:PB:44:LEU:HA	41:PB:44:LEU:HD13	1.61	0.41
41:PB:103:LYS:HA	41:PB:107:THR:OG1	2.20	0.41
41:PB:262:ARG:HE	41:PB:262:ARG:HB3	1.73	0.41
41:PB:347:ASN:HD21	42:PC:179:THR:N	2.19	0.41
41:PB:399:THR:HA	41:PB:403:MET:O	2.21	0.41
41:PD:218:THR:C	41:PD:220:PRO:HD3	2.41	0.41
41:PD:246:LEU:HD13	45:PE:501:GTP:H8	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:PF:107:THR:O	41:PF:108:GLU:C	2.59	0.41
41:PH:209:ASP:O	41:PH:210:ILE:C	2.58	0.41
42:PI:77:GLU:O	42:PI:80:THR:N	2.42	0.41
42:PI:250:VAL:HG12	42:PI:354:GLY:HA3	2.02	0.41
42:PI:381:THR:HG23	42:PI:383:ALA:H	1.85	0.41
41:PJ:382:SER:O	41:PJ:386:THR:HG23	2.21	0.41
42:PK:164:LYS:HB3	42:PK:164:LYS:HE3	1.31	0.41
41:PL:41:ASP:O	41:PL:44:LEU:N	2.51	0.41
41:PL:138:SER:O	41:PL:139:LEU:C	2.58	0.41
41:PL:393:ALA:C	41:PL:395:LEU:H	2.24	0.41
42:QC:314:ALA:HB3	42:QC:380:ASN:HD22	1.85	0.41
42:QE:107:HIS:O	42:QE:112:LYS:HE3	2.20	0.41
42:QE:144:GLY:O	42:QE:148:GLY:N	2.53	0.41
41:QF:25:SER:O	41:QF:29:GLY:N	2.53	0.41
42:QG:31:GLN:NE2	42:QG:35:GLN:HB2	2.35	0.41
41:QH:32:PRO:HA	41:QH:81:PHE:CD2	2.56	0.41
41:QH:260:PHE:O	41:QH:262:ARG:N	2.52	0.41
42:QI:304:LYS:HD2	42:QI:304:LYS:HA	1.33	0.41
42:QI:339:ARG:O	42:QI:340:THR:C	2.59	0.41
42:QI:352:LYS:HD2	42:QI:352:LYS:HA	1.76	0.41
42:QI:420:GLU:HG3	42:QI:421:ALA:N	2.35	0.41
42:QI:430:LYS:H	42:QI:430:LYS:HG3	1.66	0.41
42:QI:434:GLU:H	42:QI:434:GLU:HG2	1.62	0.41
41:QJ:319:GLY:O	41:QJ:320:ARG:C	2.59	0.41
42:QK:23:LEU:HD12	42:QK:23:LEU:HA	1.79	0.41
42:QK:223:THR:H	42:QK:226:ASN:HB3	1.86	0.41
41:QL:58:LYS:HE3	41:RL:280:GLN:HB3	2.03	0.41
41:QL:174:LYS:HE3	41:QL:174:LYS:HB3	1.76	0.41
42:RC:88:HIS:HB3	42:RC:91:GLN:HG3	2.03	0.41
41:RD:259:PRO:O	41:RD:260:PHE:C	2.59	0.41
41:RD:271:ALA:O	41:RD:273:LEU:N	2.53	0.41
42:RE:211:ASP:HA	42:RE:214:ARG:NH2	2.35	0.41
42:RG:147:SER:O	42:RG:190:THR:OG1	2.28	0.41
42:RG:203:MET:HB3	42:RG:303:VAL:HG21	2.01	0.41
42:RG:319:TYR:CD2	42:RG:323:VAL:HG11	2.56	0.41
42:RI:62:VAL:HA	42:RI:63:PRO:HD3	1.93	0.41
41:RJ:74:ASP:HA	41:RJ:77:ARG:NE	2.35	0.41
41:RJ:193:VAL:HG11	41:RJ:418:LEU:HD11	2.03	0.41
42:RK:273:ALA:H	42:RK:274:PRO:HD2	1.86	0.41
41:SD:89:ASN:HA	41:SD:119:VAL:HG11	2.02	0.41
41:SD:173:PRO:HG3	41:SD:380:ARG:CZ	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:SE:31:GLN:H	42:SE:31:GLN:HG3	1.33	0.41
42:SE:216:ASN:HD22	42:SE:216:ASN:HA	1.67	0.41
41:SF:2:ARG:HE	41:SF:2:ARG:HB2	1.78	0.41
41:SF:125:GLU:H	41:SF:125:GLU:HG3	1.54	0.41
41:SF:130:LEU:O	41:SF:162:ARG:HD2	2.21	0.41
41:SF:257:MET:HB3	41:SF:266:PHE:CE1	2.54	0.41
42:SI:114:LEU:O	42:SI:115:ILE:C	2.58	0.41
42:SI:133:GLN:H	42:SI:133:GLN:HG3	1.80	0.41
41:SJ:8:GLN:OE1	41:SJ:17:GLY:HA3	2.21	0.41
42:SK:219:ILE:HD11	42:SK:367:ASP:HB2	2.02	0.41
42:SK:313:MET:HB3	42:SK:380:ASN:OD1	2.20	0.41
42:SK:320:ARG:NH2	42:SK:360:PRO:HA	2.36	0.41
42:SM:60:LYS:HE3	42:SM:60:LYS:HB2	1.57	0.41
42:TC:417:GLU:HA	42:TC:420:GLU:HB3	2.02	0.41
41:TD:239:CYS:HB3	41:TD:247:ASN:OD1	2.19	0.41
42:TE:194:THR:O	42:TE:198:SER:OG	2.38	0.41
41:TF:233:MET:HA	41:TF:236:VAL:HG12	2.02	0.41
42:TG:251:ASP:HB3	42:TG:254:GLU:OE1	2.20	0.41
41:TH:156:ARG:NH1	41:TH:160:PRO:O	2.52	0.41
41:TH:324:LYS:HE3	42:TI:214:ARG:HH12	1.85	0.41
42:TI:35:GLN:HA	42:TI:59:GLY:O	2.20	0.41
42:TI:285:GLN:H	42:TI:285:GLN:HG3	1.63	0.41
42:TK:189:LEU:HD21	42:TK:418:PHE:CD1	2.56	0.41
42:TK:319:TYR:CD1	42:TK:323:VAL:HG11	2.52	0.41
41:TL:232:THR:HG21	41:TL:268:PRO:HB3	2.02	0.41
42:TM:194:THR:O	42:TM:198:SER:HB3	2.20	0.41
41:UF:161:ASP:N	41:UF:161:ASP:OD1	2.54	0.41
41:UJ:255:VAL:HG11	42:UK:100:ALA:O	2.20	0.41
42:UK:137:ILE:HG23	42:UK:168:GLU:HG2	2.02	0.41
42:UK:245:ASP:OD1	42:UK:245:ASP:N	2.42	0.41
42:UM:35:GLN:HA	42:UM:59:GLY:O	2.21	0.41
42:UM:65:ALA:HB3	42:UM:87:PHE:HE1	1.85	0.41
41:VD:167:PHE:CE1	41:VD:200:TYR:HD2	2.38	0.41
42:VE:188:ILE:HD12	42:VE:425:MET:HG3	2.01	0.41
41:VF:162:ARG:HA	41:VF:162:ARG:HD3	1.77	0.41
42:VG:141:PHE:CD1	42:VG:190:THR:HG21	2.55	0.41
41:VH:107:THR:O	41:VH:109:GLY:N	2.54	0.41
42:VI:137:ILE:HG22	42:VI:139:HIS:HD2	1.85	0.41
41:VJ:178:THR:HG22	41:VJ:180:VAL:H	1.86	0.41
42:WC:195:LEU:HD21	42:WC:264:ARG:HE	1.84	0.41
42:WI:163:LYS:HA	42:WI:163:LYS:HD3	1.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:WJ:103:LYS:O	41:WJ:108:GLU:HB2	2.19	0.41
41:WJ:347:ASN:OD1	41:WJ:348:ASN:N	2.54	0.41
41:WN:267:MET:HA	41:WN:268:PRO:HD3	1.83	0.41
3:1H:422:ARG:HB3	42:SM:58:ALA:HB2	2.01	0.41
3:1I:208:LEU:HD11	42:TI:370:LYS:O	2.20	0.41
14:2Y:186:HIS:ND1	41:OL:361:LEU:HD21	2.35	0.41
19:3L:220:LEU:HB3	19:3L:222:LYS:NZ	2.34	0.41
19:3L:233:LYS:HE2	19:3L:236:LEU:HD12	2.03	0.41
20:3N:14:PHE:CG	20:3N:15:CYS:N	2.85	0.41
20:3O:548:LEU:HA	20:3O:551:VAL:HG12	2.03	0.41
20:3O:641:SER:HA	20:3O:644:ILE:HG22	2.03	0.41
20:3P:6:PHE:HA	20:3P:29:ILE:HG22	2.02	0.41
20:3Q:425:LYS:O	20:3Q:507:PHE:N	2.52	0.41
21:3T:78:LYS:NZ	42:LE:415:GLU:HG3	2.35	0.41
24:4G:191:LEU:HD23	42:HM:282:TYR:HD1	1.85	0.41
24:4G:242:ARG:HH12	42:GK:59:GLY:HA3	1.86	0.41
25:4I:321:THR:HG23	25:4I:324:GLU:H	1.86	0.41
29:4Y:56:ILE:HD12	29:4Y:56:ILE:HA	1.78	0.41
29:4Y:82:ARG:NH2	42:GG:244:PHE:O	2.53	0.41
33:5R:7:LYS:HZ3	35:6R:409:ARG:HD2	1.85	0.41
33:5R:202:LYS:HA	35:6Q:212:GLU:OE1	2.21	0.41
33:5S:262:GLU:HB3	33:5S:266:ARG:HH12	1.85	0.41
33:5V:130:LYS:HB2	33:5V:134:GLU:CD	2.40	0.41
33:5X:354:GLN:O	33:5X:358:GLN:N	2.47	0.41
34:6G:166:ALA:CB	34:6G:315:ARG:HH12	2.32	0.41
34:6H:163:GLU:HG3	34:6H:308:ILE:HG23	2.03	0.41
34:6K:61:ASN:HB2	34:6K:62:TRP:CZ3	2.55	0.41
34:6L:177:ILE:HD11	34:6L:180:ARG:HH21	1.85	0.41
35:6R:47:ARG:HH12	35:6R:51:TYR:HA	1.84	0.41
35:6R:312:GLU:O	35:6R:316:HIS:ND1	2.50	0.41
35:6U:167:LEU:O	35:6V:50:LYS:HB3	2.20	0.41
35:6V:134:GLN:HE22	35:6V:279:ARG:HA	1.85	0.41
35:6V:169:ARG:HE	35:6V:169:ARG:HB2	1.48	0.41
42:AC:42:ILE:HD12	42:AC:42:ILE:HA	1.88	0.41
41:AD:68:LEU:HB2	41:AD:143:THR:HG23	2.03	0.41
41:AD:303:CYS:SG	41:AD:377:LEU:HB2	2.61	0.41
41:AF:140:GLY:O	41:AF:184:ASN:ND2	2.53	0.41
41:AH:31:ASP:C	41:AH:33:THR:H	2.24	0.41
41:AH:174:LYS:HE3	41:AH:175:VAL:HG23	2.02	0.41
42:AI:273:ALA:HB3	42:AI:375:VAL:H	1.85	0.41
42:AK:265:ILE:HG23	42:AK:432:TYR:CE2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BB:7:LEU:HD21	41:BB:151:LEU:HD22	2.02	0.41
41:BB:312:THR:HG21	42:BC:404:PHE:HZ	1.86	0.41
41:BB:333:VAL:HA	41:BB:336:LYS:HG2	2.01	0.41
42:BC:406:HIS:HA	42:BC:409:VAL:HG22	2.01	0.41
41:BD:294:PHE:CE1	41:BD:313:VAL:HG11	2.56	0.41
42:BE:164:LYS:HE2	42:BE:164:LYS:HB2	1.79	0.41
42:BG:60:LYS:HD3	42:CG:283:HIS:CD2	2.55	0.41
42:BG:178:SER:OG	42:BG:183:GLU:OE2	2.35	0.41
42:BI:96:LYS:HE2	42:BI:96:LYS:HB3	1.47	0.41
42:BI:261:PRO:HB2	42:BI:262:TYR:H	1.66	0.41
41:CB:10:GLY:HA2	41:CB:143:THR:HB	2.02	0.41
41:CB:246:LEU:O	41:CB:353:VAL:N	2.39	0.41
42:CC:75:ILE:HG22	42:CC:92:LEU:HG	2.02	0.41
42:CC:305:CYS:O	42:CC:306:ASP:C	2.58	0.41
41:CD:3:GLU:HA	41:CD:49:VAL:HA	2.01	0.41
41:CD:398:TYR:O	41:CD:400:GLY:N	2.52	0.41
41:CF:103:LYS:HA	41:CF:107:THR:HG23	2.03	0.41
41:CJ:44:LEU:HD11	41:CJ:59:TYR:HE1	1.85	0.41
41:CJ:373:ALA:C	41:CJ:375:GLN:N	2.74	0.41
42:CK:99:ALA:HA	42:CK:105:ARG:HH11	1.86	0.41
42:CK:385:ALA:HA	42:CK:388:TRP:CD1	2.55	0.41
42:CM:331:ALA:O	42:CM:335:ILE:HG12	2.20	0.41
41:DB:2:ARG:CD	41:DB:240:LEU:HG	2.50	0.41
42:DC:99:ALA:HB1	42:DC:105:ARG:HB3	2.03	0.41
42:DE:255:PHE:HE1	42:DE:318:LEU:HD11	1.86	0.41
41:DH:363:MET:HE3	41:DH:363:MET:HB3	1.64	0.41
42:DI:79:ARG:HH12	42:DI:94:THR:HG21	1.83	0.41
41:DJ:296:ALA:O	41:DJ:298:ASN:N	2.54	0.41
42:DK:138:PHE:HA	42:DK:169:PHE:O	2.21	0.41
42:DK:170:SER:C	42:DK:204:VAL:HG12	2.41	0.41
42:DM:30:ILE:HG13	42:DM:53:PHE:CE1	2.56	0.41
42:EC:1:MET:HG3	42:EC:3:GLU:OE2	2.20	0.41
42:EC:395:PHE:HD2	42:EC:422:ARG:HD3	1.86	0.41
41:ED:100:ASN:O	41:ED:101:TRP:C	2.58	0.41
41:ED:286:VAL:O	41:ED:290:THR:HG23	2.19	0.41
41:ED:333:VAL:O	41:ED:334:GLN:C	2.58	0.41
41:EF:171:PRO:HB3	41:EF:181:GLU:OE1	2.19	0.41
41:EF:237:THR:HG22	41:EF:241:ARG:HG3	2.02	0.41
41:EL:51:TYR:HE1	41:EL:61:PRO:HG3	1.86	0.41
41:EL:287:PRO:O	41:EL:290:THR:HG22	2.19	0.41
41:EL:330:MET:HE2	41:EL:349:VAL:HG21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:EL:418:LEU:C	41:EL:420:SER:H	2.23	0.41
42:EM:167:LEU:HD21	42:EM:255:PHE:HE2	1.86	0.41
42:EM:273:ALA:CB	42:EM:375:VAL:HG12	2.50	0.41
42:EM:391:LEU:HD22	42:EM:391:LEU:HA	1.72	0.41
42:FC:234:ILE:HD12	42:FC:270:ALA:HB1	2.02	0.41
41:FD:110:ALA:O	41:FD:113:VAL:HG22	2.20	0.41
41:FD:207:LEU:HD23	41:FD:228:LEU:HD23	2.03	0.41
41:FD:259:PRO:HG3	41:FD:311:LEU:HD13	2.01	0.41
42:FG:316:CYS:HA	42:FG:352:LYS:HB3	2.02	0.41
41:FL:16:ILE:HA	41:FL:226:ASN:ND2	2.36	0.41
41:FL:47:ILE:HD12	41:FL:47:ILE:HA	1.98	0.41
42:FM:181:VAL:HG23	42:FM:182:VAL:HG13	2.02	0.41
41:GD:253:LEU:HA	41:GD:253:LEU:HD12	1.80	0.41
41:GJ:226:ASN:ND2	43:GJ:501:GDP:HN1	2.19	0.41
41:GJ:266:PHE:CE2	41:GJ:370:ASN:HB2	2.56	0.41
42:GK:201:ALA:HB3	42:GK:267:PHE:HA	2.02	0.41
42:HC:70:LEU:HD13	42:HC:70:LEU:HA	1.90	0.41
42:HC:112:LYS:H	42:HC:112:LYS:HG2	1.61	0.41
42:HC:174:ALA:HB1	42:HC:207:GLU:HB2	2.03	0.41
42:HC:320:ARG:HH11	42:HC:358:GLN:HB3	1.86	0.41
41:HF:309:ARG:H	41:HF:372:THR:HG22	1.84	0.41
42:HG:2:ARG:HH22	42:HG:48:SER:HA	1.85	0.41
42:HG:155:GLU:O	42:HG:158:SER:N	2.53	0.41
41:HH:25:SER:O	41:HH:30:ILE:N	2.42	0.41
41:HH:278:SER:O	41:HH:278:SER:OG	2.34	0.41
42:HI:115:ILE:HD12	42:HI:115:ILE:HA	1.83	0.41
42:HI:339:ARG:HE	42:HI:339:ARG:HB2	1.51	0.41
42:HM:213:CYS:SG	42:HM:213:CYS:O	2.78	0.41
42:II:150:THR:O	42:II:154:MET:HG2	2.20	0.41
41:IJ:148:GLY:O	41:IJ:152:ILE:HG12	2.20	0.41
41:IL:316:VAL:HG23	41:IL:366:THR:HG23	2.02	0.41
42:IM:105:ARG:HG3	42:IM:109:THR:CG2	2.50	0.41
42:JG:258:ASN:HD22	42:JG:352:LYS:HD3	1.85	0.41
41:JJ:65:LEU:HB2	41:JJ:90:PHE:HA	2.02	0.41
41:JJ:189:VAL:HA	41:JJ:192:LEU:HB2	2.02	0.41
42:JK:28:HIS:O	42:JK:30:ILE:N	2.53	0.41
42:JK:125:LEU:HD12	42:JK:125:LEU:HA	1.77	0.41
42:JK:136:LEU:HD23	42:JK:167:LEU:HB2	2.02	0.41
42:JK:332:ILE:HG22	42:JK:336:LYS:NZ	2.35	0.41
41:JL:402:GLY:O	41:JL:403:MET:C	2.59	0.41
42:JM:89:PRO:O	42:JM:90:GLU:C	2.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:KJ:152:ILE:HG22	41:KJ:195:ASN:HB3	2.03	0.41
42:LC:237:SER:HA	42:LC:320:ARG:HH11	1.85	0.41
41:LF:207:LEU:HB3	41:LF:225:LEU:HG	2.02	0.41
41:LH:1:MET:HA	41:LH:128:ASP:HB3	2.01	0.41
42:LI:16:ILE:HD11	42:LI:171:ILE:HD11	2.03	0.41
41:LL:253:LEU:HD23	41:LL:253:LEU:HA	1.93	0.41
42:MC:10:GLY:HA2	42:MC:145:THR:HG23	2.03	0.41
41:MD:197:ASP:N	41:MD:197:ASP:OD1	2.53	0.41
41:MF:362:LYS:HB3	41:MF:362:LYS:HE3	1.66	0.41
41:MH:351:THR:HG22	42:MI:179:THR:HA	2.02	0.41
42:MI:47:ASP:N	42:MI:47:ASP:OD1	2.54	0.41
42:MK:137:ILE:HB	42:MK:168:GLU:HA	2.02	0.41
42:MK:206:ASN:OD1	42:MK:207:GLU:N	2.53	0.41
42:MK:322:ASP:OD1	42:MK:373:ARG:HD2	2.20	0.41
41:ML:139:LEU:HB2	41:ML:171:PRO:HD3	2.02	0.41
41:MN:193:VAL:HA	41:MN:264:HIS:CE1	2.55	0.41
41:MN:331:LEU:HG	41:MN:335:ASN:HD22	1.84	0.41
42:NA:274:PRO:HB2	42:NA:371:VAL:HG11	2.02	0.41
41:ND:43:GLN:HA	41:ND:242:PHE:CE1	2.53	0.41
41:ND:271:ALA:HB2	41:ND:293:MET:HG3	2.01	0.41
41:NF:89:ASN:HB2	41:NF:119:VAL:HG11	2.01	0.41
41:NF:279:GLN:HB2	41:NF:279:GLN:HE21	1.50	0.41
41:NH:28:HIS:HA	41:NH:43:GLN:HB3	2.02	0.41
41:NH:55:THR:O	41:NH:56:GLY:C	2.59	0.41
42:NI:74:VAL:O	42:NI:77:GLU:HG3	2.19	0.41
42:NI:94:THR:HB	42:NI:95:GLY:H	1.58	0.41
42:NI:151:SER:OG	42:NI:152:LEU:N	2.52	0.41
42:NI:157:LEU:HD12	42:NI:157:LEU:HA	1.72	0.41
41:NJ:332:ASN:OD1	41:NJ:333:VAL:N	2.54	0.41
42:NK:336:LYS:HD3	42:NK:351:PHE:CE2	2.55	0.41
42:OA:195:LEU:HD12	42:OA:266:HIS:NE2	2.35	0.41
42:OA:273:ALA:HB1	42:OA:294:ALA:HB3	2.01	0.41
41:OB:229:VAL:HG12	41:OB:233:MET:CE	2.51	0.41
41:OD:11:GLN:NE2	41:OD:69:GLU:OE2	2.53	0.41
41:OF:139:LEU:HD13	41:OF:168:SER:HB2	2.02	0.41
41:OH:346:PRO:HD2	42:OI:398:MET:SD	2.60	0.41
41:OL:86:ARG:CD	41:PL:281:TYR:HB2	2.50	0.41
42:PA:349:THR:HB	42:PA:350:GLY:H	1.72	0.41
42:PC:261:PRO:HA	41:PD:394:PHE:CD1	2.55	0.41
41:PD:252:LYS:HE3	41:PD:252:LYS:HB3	1.78	0.41
41:PD:336:LYS:HD2	41:PD:336:LYS:HA	1.32	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:PD:345:ILE:HG23	41:PD:345:ILE:O	2.20	0.41
42:PE:109:THR:O	42:PE:112:LYS:HB3	2.21	0.41
41:PF:58:LYS:HE2	41:PF:58:LYS:HB2	1.81	0.41
42:PG:114:LEU:HD12	42:PG:117:LEU:HB2	2.02	0.41
42:PG:129:CYS:SG	42:PG:132:LEU:HD13	2.60	0.41
42:PG:191:THR:OG1	42:PG:192:HIS:N	2.53	0.41
42:PG:212:ILE:HG12	42:PG:216:ASN:HD22	1.86	0.41
42:PG:236:SER:C	42:PG:238:ILE:H	2.23	0.41
42:PG:238:ILE:HD12	42:PG:255:PHE:CE2	2.56	0.41
41:PH:271:ALA:O	41:PH:273:LEU:N	2.53	0.41
41:PH:308:GLY:HA3	41:PH:373:ALA:HB2	2.02	0.41
41:PH:380:ARG:O	41:PH:381:ILE:C	2.57	0.41
42:PI:35:GLN:HE22	42:PI:59:GLY:HA3	1.85	0.41
42:PI:255:PHE:O	42:PI:259:LEU:HB2	2.20	0.41
41:PJ:252:LYS:C	41:PJ:254:ALA:H	2.24	0.41
42:PK:57:GLY:O	42:PK:58:ALA:C	2.59	0.41
42:PK:183:GLU:HG3	42:PK:184:PRO:N	2.36	0.41
42:PK:246:GLY:HA3	42:PK:356:ASN:HA	2.02	0.41
41:PL:113:VAL:HG21	41:PL:150:LEU:HD12	2.01	0.41
41:QB:344:TRP:CZ2	41:QB:425:TYR:HD2	2.38	0.41
41:QF:347:ASN:O	42:QG:181:VAL:HG22	2.21	0.41
42:QG:227:LEU:HA	42:QG:227:LEU:HD12	1.74	0.41
41:QH:81:PHE:O	41:QH:83:GLN:N	2.41	0.41
42:QK:209:ILE:H	42:QK:209:ILE:HG12	1.47	0.41
41:QL:148:GLY:O	41:QL:149:THR:C	2.57	0.41
41:QL:348:ASN:OD1	41:QL:348:ASN:N	2.53	0.41
42:RC:28:HIS:CE1	42:RC:49:PHE:HA	2.56	0.41
41:RD:86:ARG:HG2	41:RD:87:PRO:HD2	2.02	0.41
41:RD:322:SER:O	41:RD:323:MET:C	2.58	0.41
41:RF:67:ASP:HB3	41:RF:92:PHE:CD1	2.55	0.41
41:RF:163:ILE:H	41:RF:163:ILE:HG13	1.62	0.41
41:RF:273:LEU:HD12	41:RF:273:LEU:HA	1.96	0.41
42:RG:306:ASP:HA	42:RG:307:PRO:HD3	1.75	0.41
41:RJ:147:MET:O	41:RJ:148:GLY:C	2.59	0.41
41:RJ:174:LYS:HE2	41:RJ:174:LYS:HB2	1.65	0.41
41:RJ:209:ASP:O	41:RJ:210:ILE:C	2.59	0.41
41:RJ:406:MET:HA	41:RJ:409:THR:HG23	2.02	0.41
42:RK:254:GLU:HG2	42:RK:352:LYS:NZ	2.35	0.41
42:RK:255:PHE:HZ	42:RK:318:LEU:HD21	1.86	0.41
42:SC:202:PHE:CE2	42:SC:238:ILE:HD13	2.55	0.41
41:SD:61:PRO:HD3	41:SD:84:ILE:HG12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:SD:268:PRO:O	41:SD:300:MET:HB2	2.21	0.41
41:SD:271:ALA:O	41:SD:292:GLN:NE2	2.54	0.41
42:SE:217:LEU:HB3	42:SE:219:ILE:HD13	2.03	0.41
41:SF:12:CYS:HA	43:SF:501:GDP:N7	2.35	0.41
41:SF:48:ASN:O	41:SF:49:VAL:C	2.58	0.41
41:SF:103:LYS:HE2	41:SF:103:LYS:HB3	1.84	0.41
41:SF:245:GLN:H	41:SF:245:GLN:HG2	1.48	0.41
42:SG:169:PHE:CD2	42:SG:235:VAL:HG22	2.55	0.41
42:SG:346:TRP:CD1	41:SH:391:ARG:HG2	2.55	0.41
41:SJ:210:ILE:HG22	41:SJ:213:ARG:HH12	1.85	0.41
41:SL:242:PHE:HB2	41:SL:356:ILE:HG21	2.02	0.41
42:SM:11:GLN:N	45:SM:501:GTP:O1A	2.53	0.41
41:TD:200:TYR:HD1	41:TD:266:PHE:HB2	1.84	0.41
41:TD:260:PHE:HD2	41:TD:425:TYR:HH	1.67	0.41
42:TE:60:LYS:HZ3	42:UE:283:HIS:HB3	1.85	0.41
42:TE:168:GLU:OE2	42:TE:201:ALA:HB2	2.21	0.41
41:TF:174:LYS:HE2	41:TF:174:LYS:HB3	1.85	0.41
41:TJ:254:ALA:O	41:TJ:258:VAL:HG12	2.21	0.41
42:TK:209:ILE:H	42:TK:209:ILE:HG13	1.60	0.41
42:TK:326:LYS:HG3	41:TL:212:PHE:CZ	2.55	0.41
41:TL:77:ARG:NH2	41:TL:87:PRO:HB3	2.36	0.41
42:UI:260:VAL:HG13	41:UJ:397:TRP:HH2	1.85	0.41
42:UM:255:PHE:HA	42:UM:258:ASN:HB2	2.02	0.41
42:VE:306:ASP:HA	42:VE:307:PRO:HD3	1.94	0.41
41:VF:113:VAL:HG21	41:VF:150:LEU:HD23	2.03	0.41
42:VI:329:ASN:HB3	41:VJ:175:VAL:HG22	2.02	0.41
41:VJ:47:ILE:HG13	41:VJ:51:TYR:HB2	2.01	0.41
41:VJ:104:GLY:HA3	41:VJ:146:GLY:HA3	2.01	0.41
42:VM:118:VAL:O	42:VM:122:ILE:HG12	2.21	0.41
42:WE:323:VAL:HG12	42:WE:328:VAL:HG22	2.02	0.41
41:WF:163:ILE:HD13	41:WF:250:LEU:HB3	2.03	0.41
42:WG:191:THR:HG21	42:WG:425:MET:HE3	2.02	0.41
41:WH:310:TYR:O	41:WH:311:LEU:C	2.59	0.41
41:WH:406:MET:O	41:WH:410:GLU:HG2	2.21	0.41
42:WI:119:LEU:HD13	42:WI:119:LEU:HA	1.80	0.41
41:WJ:18:ALA:O	41:WJ:22:GLU:HG3	2.21	0.41
42:WK:99:ALA:HA	42:WK:105:ARG:HG3	2.02	0.41
42:WM:349:THR:HG23	42:WM:350:GLY:H	1.86	0.41
2:1E:208:VAL:HA	26:4L:262:LEU:HD21	2.02	0.41
19:3J:279:HIS:NE2	19:3J:288:PHE:O	2.52	0.41
19:3J:453:GLU:HA	19:3J:454:PRO:HD3	1.94	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:3N:123:SER:HA	20:3N:132:PHE:HD1	1.85	0.41
20:3O:157:ASP:HB3	20:3O:160:THR:HG22	2.01	0.41
21:3S:138:ASP:OD2	21:3S:141:THR:OG1	2.36	0.41
21:3U:208:GLU:O	21:3U:212:LYS:N	2.49	0.41
21:3V:108:PHE:HZ	41:LN:417:ASP:HB2	1.85	0.41
22:3Z:251:PHE:CD2	42:EI:223:THR:HG21	2.56	0.41
24:4F:134:ASN:HB2	24:4G:463:TYR:HB3	2.03	0.41
26:4K:280:LYS:HD3	26:4K:283:LEU:HD21	2.03	0.41
26:4M:92:GLN:O	26:4M:96:LYS:HG2	2.21	0.41
26:4M:121:GLN:HB2	26:4M:124:GLU:OE2	2.21	0.41
27:4O:143:LEU:HD23	27:4O:143:LEU:HA	1.84	0.41
27:4Q:58:SER:OG	27:4Q:59:ALA:N	2.53	0.41
27:4T:213:TYR:HA	41:WN:122:LYS:CD	2.50	0.41
31:5J:117:LYS:HE2	31:5J:117:LYS:HB2	1.91	0.41
32:5O:130:ASP:H	32:5O:133:GLU:HG3	1.86	0.41
33:5R:136:GLU:HA	33:5R:139:LYS:HB3	2.00	0.41
33:5R:269:LEU:HD23	33:5R:269:LEU:HA	1.92	0.41
33:5V:245:LEU:HD21	34:6A:327:ASN:ND2	2.20	0.41
33:5W:132:PRO:HD2	33:5W:268:ARG:HD3	2.02	0.41
33:5W:286:THR:O	33:5W:290:ILE:HG12	2.20	0.41
34:6B:123:ASP:O	34:6C:437:ARG:NH2	2.54	0.41
34:6B:142:SER:HA	34:6C:419:ARG:HG2	2.02	0.41
34:6C:235:LEU:HD13	34:6C:235:LEU:HA	1.77	0.41
34:6C:358:LYS:HD3	34:6C:459:LEU:HD12	2.03	0.41
34:6F:414:ASP:OD1	34:6F:417:GLN:N	2.51	0.41
34:6G:285:HIS:HB2	34:6L:446:GLN:HE21	1.86	0.41
34:6H:471:ASP:O	34:6H:472:LYS:HB2	2.20	0.41
35:6P:52:LEU:HB2	35:6P:55:GLU:OE1	2.20	0.41
35:6P:124:LEU:O	35:6P:128:THR:OG1	2.28	0.41
35:6U:244:SER:O	35:6U:246:LYS:N	2.54	0.41
35:6V:152:VAL:HG11	35:6V:180:ALA:HB2	2.01	0.41
36:6Z:13:PHE:HZ	36:6Z:49:CYS:HB2	1.85	0.41
37:7E:125:SER:O	41:OL:306:ARG:NH2	2.53	0.41
37:7F:69:ARG:HE	37:7F:69:ARG:HB2	1.72	0.41
41:AH:252:LYS:C	41:AH:254:ALA:H	2.24	0.41
42:AI:139:HIS:CG	42:AI:150:THR:HG21	2.55	0.41
41:AJ:376:GLU:OE1	41:AJ:380:ARG:NH1	2.54	0.41
42:BC:177:VAL:HG12	42:BC:207:GLU:OE2	2.21	0.41
42:BG:79:ARG:NH2	42:BG:94:THR:OG1	2.43	0.41
42:BG:142:GLY:HA2	42:BG:183:GLU:HG3	2.01	0.41
42:BI:263:PRO:HG3	41:BJ:396:HIS:CG	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BK:95:GLY:HA2	42:BK:114:LEU:HD11	2.03	0.41
41:BL:346:PRO:HD2	41:BL:347:ASN:H	1.85	0.41
41:CB:252:LYS:CB	42:CC:100:ALA:HA	2.50	0.41
42:CE:257:THR:O	41:CF:397:TRP:NE1	2.53	0.41
41:CH:260:PHE:CE2	42:CI:403:ALA:HA	2.56	0.41
42:CI:251:ASP:H	42:CI:254:GLU:HB2	1.84	0.41
41:CJ:108:GLU:O	41:CJ:109:GLY:C	2.57	0.41
42:CM:240:ALA:HA	42:CM:243:ARG:HH11	1.85	0.41
41:DB:117:LEU:HD21	41:DB:154:LYS:HB3	2.03	0.41
42:DC:79:ARG:NH2	42:DC:84:ARG:O	2.54	0.41
41:DD:257:MET:O	41:DD:259:PRO:HD3	2.21	0.41
42:DE:68:VAL:HG21	42:DE:149:PHE:CE1	2.55	0.41
41:DH:313:VAL:HA	41:DH:369:GLY:HA2	2.03	0.41
41:DH:337:ASN:C	41:DH:339:SER:H	2.23	0.41
41:DH:389:PHE:CE2	41:DH:409:THR:HG22	2.56	0.41
42:DI:137:ILE:HB	42:DI:168:GLU:CB	2.50	0.41
42:DI:162:GLY:O	42:DI:164:LYS:N	2.38	0.41
41:DJ:256:ASN:HD22	41:DJ:350:LYS:CB	2.33	0.41
42:EC:24:TYR:OH	42:EC:235:VAL:HG12	2.21	0.41
42:EC:201:ALA:O	42:EC:203:MET:HE3	2.20	0.41
41:ED:311:LEU:HA	41:ED:342:VAL:HG11	2.01	0.41
41:EF:267:MET:HE2	41:EF:267:MET:HB3	1.88	0.41
41:EF:321:MET:HE2	41:EF:321:MET:HB3	1.89	0.41
41:EH:165:ASN:OD1	41:EH:166:THR:N	2.54	0.41
42:EI:27:GLU:OE1	42:EI:243:ARG:NH1	2.53	0.41
42:EK:103:TYR:O	42:EK:104:ALA:C	2.59	0.41
42:EK:196:GLU:O	42:EK:197:HIS:ND1	2.54	0.41
42:EK:205:ASP:C	42:EK:207:GLU:N	2.72	0.41
42:EK:306:ASP:HB3	42:EK:309:HIS:NE2	2.35	0.41
41:EL:284:LEU:HD13	41:EL:284:LEU:HA	1.71	0.41
41:EL:399:THR:OG1	41:EL:400:GLY:N	2.54	0.41
41:EL:411:ALA:HA	41:EL:414:ASN:ND2	2.36	0.41
42:EM:304:LYS:H	42:EM:304:LYS:HG2	1.67	0.41
42:EM:429:GLU:O	42:EM:433:GLU:N	2.46	0.41
42:FC:217:LEU:HD22	42:FC:275:VAL:HG22	2.02	0.41
42:FE:3:GLU:HG2	42:FE:132:LEU:HA	2.02	0.41
41:FH:166:THR:N	41:FH:198:GLU:O	2.53	0.41
41:FH:309:ARG:NH1	41:FH:339:SER:O	2.54	0.41
42:FI:68:VAL:HG11	42:FI:149:PHE:HE1	1.83	0.41
42:FI:195:LEU:HD23	42:FI:266:HIS:CE1	2.50	0.41
41:FJ:66:VAL:HG11	41:FJ:116:VAL:HB	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:FJ:100:ASN:HB2	41:FJ:398:TYR:HE1	1.85	0.41
42:FK:79:ARG:O	42:FK:81:GLY:N	2.51	0.41
42:FK:428:LEU:HD12	42:FK:428:LEU:HA	1.85	0.41
42:GC:137:ILE:HD11	42:GC:166:LYS:HD2	2.03	0.41
42:GE:129:CYS:SG	42:GE:131:GLY:N	2.94	0.41
41:GF:24:ILE:HD13	41:GF:50:TYR:CD2	2.55	0.41
41:GF:392:LYS:HE3	41:GF:395:LEU:HD23	2.01	0.41
41:GH:54:ALA:HB3	41:GH:58:LYS:HB3	2.01	0.41
42:GI:226:ASN:O	42:GI:230:LEU:HD13	2.21	0.41
41:GJ:196:THR:OG1	41:GJ:197:ASP:N	2.54	0.41
41:GJ:246:LEU:HD22	42:GK:224:TYR:OH	2.20	0.41
41:GJ:342:VAL:HG13	41:GJ:344:TRP:CE3	2.56	0.41
41:GJ:358:PRO:CD	41:GJ:364:SER:HB3	2.50	0.41
41:GJ:384:GLN:HE21	41:GJ:384:GLN:HB2	1.62	0.41
41:GL:255:VAL:HA	42:GM:407:TRP:CD1	2.56	0.41
41:GL:282:ARG:HD2	41:GL:288:GLU:OE2	2.21	0.41
42:GM:311:LYS:HE3	42:GM:311:LYS:HB2	1.49	0.41
42:HC:387:ALA:O	42:HC:388:TRP:C	2.58	0.41
42:HC:395:PHE:O	42:HC:396:ASP:C	2.58	0.41
42:HC:437:MET:HE3	42:HC:437:MET:HB2	1.95	0.41
41:HD:396:HIS:HB2	41:HD:397:TRP:CZ3	2.55	0.41
41:HF:362:LYS:HA	41:HF:362:LYS:HD2	1.80	0.41
42:HK:54:SER:HB3	42:HK:64:ARG:NH2	2.35	0.41
42:HK:238:ILE:HG23	42:HK:255:PHE:HE2	1.86	0.41
42:HK:243:ARG:HE	42:HK:244:PHE:HE1	1.67	0.41
42:HM:49:PHE:O	42:HM:51:THR:N	2.53	0.41
42:HM:60:LYS:HD2	42:IM:283:HIS:HD2	1.86	0.41
41:ID:327:ASP:CG	42:IE:177:VAL:HG21	2.41	0.41
42:IG:137:ILE:HG22	42:IG:139:HIS:HD2	1.86	0.41
41:IL:150:LEU:O	41:IL:153:SER:OG	2.35	0.41
41:IL:235:GLY:HA3	41:IL:366:THR:HG21	2.02	0.41
41:IL:274:THR:HG23	41:IL:279:GLN:OE1	2.20	0.41
41:IN:211:CYS:HB3	41:IN:217:LEU:HD11	2.02	0.41
41:IN:284:LEU:HD22	41:IN:284:LEU:HA	1.75	0.41
42:JC:101:ASN:HD21	42:JC:180:ALA:HB1	1.86	0.41
42:JC:202:PHE:CE1	42:JC:378:LEU:HB3	2.56	0.41
42:JC:427:ALA:O	42:JC:431:ASP:N	2.48	0.41
41:JF:20:PHE:HA	41:JF:230:SER:HB2	2.03	0.41
41:JF:247:ASN:OD1	42:JG:73:THR:HG23	2.20	0.41
41:JF:359:ARG:HA	41:JF:359:ARG:HD3	1.85	0.41
42:JK:114:LEU:O	42:JK:115:ILE:C	2.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:JM:87:PHE:HB3	42:JM:91:GLN:HG3	2.01	0.41
41:KD:262:ARG:NH2	41:KD:418:LEU:HB2	2.35	0.41
41:KH:36:TYR:CZ	41:KH:44:LEU:HB2	2.55	0.41
42:KI:313:MET:HB3	42:KI:313:MET:HE2	1.87	0.41
42:KM:161:TYR:HB3	42:KM:164:LYS:HB2	2.02	0.41
41:LD:30:ILE:HD13	41:LD:30:ILE:HA	1.86	0.41
41:LD:334:GLN:NE2	41:LD:349:VAL:HG22	2.36	0.41
41:LH:221:THR:HG23	41:LH:223:GLY:H	1.85	0.41
42:LI:151:SER:O	42:LI:155:GLU:HG3	2.21	0.41
41:LJ:283:ALA:HA	41:MJ:55:THR:HG23	2.01	0.41
42:LK:320:ARG:NH2	42:LK:358:GLN:OE1	2.54	0.41
41:LL:68:LEU:HD23	41:LL:112:LEU:HD22	2.02	0.41
42:LM:218:ASP:H	42:LM:277:SER:HB3	1.85	0.41
41:MF:99:ASN:O	41:MF:180:VAL:HG11	2.21	0.41
41:MF:150:LEU:HD23	41:MF:150:LEU:HA	1.90	0.41
41:MF:248:ALA:HA	41:MF:252:LYS:HD2	2.01	0.41
41:MF:268:PRO:HG2	41:MF:300:MET:HB2	2.03	0.41
42:MK:115:ILE:HG12	42:MK:152:LEU:HD22	2.03	0.41
42:MK:280:LYS:NZ	42:MK:284:GLU:HB3	2.35	0.41
42:MK:346:TRP:HB2	41:ML:387:ALA:HB1	2.02	0.41
41:ML:167:PHE:CD2	41:ML:233:MET:HG2	2.56	0.41
41:ML:170:VAL:N	41:ML:202:ILE:O	2.53	0.41
41:ML:178:THR:OG1	41:ML:181:GLU:HB3	2.20	0.41
41:ML:235:GLY:O	41:ML:316:VAL:HG21	2.21	0.41
41:MN:286:VAL:HA	41:MN:289:LEU:HD12	2.03	0.41
42:NA:60:LYS:HD2	42:OA:282:TYR:HE2	1.86	0.41
42:NA:260:VAL:HG22	41:NB:397:TRP:CH2	2.56	0.41
42:NC:110:ILE:H	42:NC:110:ILE:HG12	1.61	0.41
42:NE:88:HIS:ND1	42:OE:283:HIS:O	2.53	0.41
42:NE:242:LEU:HD11	42:NE:251:ASP:HA	2.02	0.41
41:NF:133:PHE:CZ	41:NF:159:TYR:HB2	2.52	0.41
42:NG:169:PHE:HE1	42:NG:238:ILE:HD12	1.85	0.41
42:NI:133:GLN:H	42:NI:133:GLN:HG3	1.53	0.41
42:NI:242:LEU:H	42:NI:242:LEU:HG	1.65	0.41
41:NJ:5:VAL:O	41:NJ:134:GLN:HB2	2.20	0.41
41:NJ:325:GLU:O	41:NJ:329:GLN:NE2	2.54	0.41
42:NK:312:TYR:HA	42:NK:381:THR:HA	2.02	0.41
42:OA:172:TYR:CD1	42:OA:173:PRO:HD2	2.56	0.41
41:OB:197:ASP:C	41:OB:198:GLU:HG2	2.41	0.41
41:OB:333:VAL:HA	41:OB:336:LYS:HE2	2.02	0.41
41:OB:391:ARG:O	41:OB:393:ALA:N	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:OD:32:PRO:HG3	41:OD:81:PHE:CE1	2.54	0.41
42:OI:417:GLU:HA	42:OI:420:GLU:HB3	2.03	0.41
42:OK:89:PRO:HA	42:OK:92:LEU:HB2	2.01	0.41
42:OK:213:CYS:SG	42:OK:219:ILE:HD12	2.60	0.41
42:PA:88:HIS:O	42:PA:89:PRO:C	2.59	0.41
41:PB:115:SER:O	41:PB:118:ASP:HB2	2.20	0.41
41:PB:222:TYR:HA	41:PB:222:TYR:HD1	1.76	0.41
41:PB:270:PHE:HB3	41:PB:273:LEU:HD21	2.02	0.41
42:PC:168:GLU:HB2	42:PC:201:ALA:CB	2.39	0.41
42:PC:228:ASN:HD21	45:PC:501:GTP:HN1	1.69	0.41
41:PF:154:LYS:HA	41:PF:154:LYS:HD3	1.58	0.41
41:PF:323:MET:HG3	42:PG:224:TYR:CG	2.55	0.41
41:PJ:99:ASN:HD21	41:PJ:180:VAL:HG23	1.86	0.41
41:PJ:188:SER:O	41:PJ:189:VAL:C	2.58	0.41
42:PK:166:LYS:O	42:PK:167:LEU:C	2.59	0.41
42:PK:256:GLN:O	42:PK:259:LEU:N	2.53	0.41
42:PK:376:CYS:O	42:PK:377:MET:C	2.59	0.41
41:QD:271:ALA:O	41:QD:298:ASN:ND2	2.54	0.41
42:QG:53:PHE:HD1	42:QG:63:PRO:HA	1.86	0.41
42:QI:70:LEU:H	42:QI:70:LEU:HG	1.60	0.41
41:QJ:57:GLY:O	41:QJ:58:LYS:C	2.58	0.41
41:QJ:210:ILE:HD13	41:QJ:210:ILE:HA	1.82	0.41
42:QK:78:VAL:HG11	42:QK:92:LEU:HD22	2.01	0.41
41:QL:257:MET:HE3	41:QL:257:MET:HB3	1.81	0.41
41:RB:173:PRO:HD3	41:RB:380:ARG:CZ	2.51	0.41
41:RB:329:GLN:HA	41:RB:332:ASN:HB3	2.02	0.41
42:RC:362:VAL:HB	42:RC:370:LYS:HG3	2.02	0.41
41:RD:188:SER:O	41:RD:189:VAL:C	2.58	0.41
41:RD:379:LYS:HA	41:RD:379:LYS:HD2	1.37	0.41
41:RD:392:LYS:HZ3	41:RD:392:LYS:HG2	1.74	0.41
42:RE:191:THR:HG21	42:RE:425:MET:HG2	2.01	0.41
41:RF:5:VAL:HG22	41:RF:123:GLU:HG3	2.03	0.41
41:RF:18:ALA:C	41:RF:20:PHE:H	2.24	0.41
41:RF:80:PRO:O	41:RF:82:GLY:N	2.54	0.41
41:RF:208:TYR:O	41:RF:209:ASP:C	2.58	0.41
41:RF:238:THR:HA	41:RF:241:ARG:HE	1.85	0.41
42:RG:133:GLN:OE1	42:RG:252:LEU:HB3	2.20	0.41
42:RG:136:LEU:HB3	42:RG:138:PHE:CE1	2.56	0.41
42:RG:263:PRO:HB3	41:RH:396:HIS:CD2	2.56	0.41
42:RI:84:ARG:HH12	42:RI:85:GLN:HG2	1.84	0.41
42:RK:88:HIS:HB3	42:RK:91:GLN:OE1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:RK:114:LEU:HB2	42:RK:149:PHE:CE2	2.55	0.41
42:RK:140:SER:OG	45:RK:501:GTP:O2B	2.39	0.41
41:RL:117:LEU:HA	41:RL:120:VAL:HG12	2.02	0.41
42:SC:265:ILE:HD12	42:SC:265:ILE:HA	1.92	0.41
42:SC:326:LYS:HG2	41:SD:220:PRO:HD2	2.03	0.41
41:SD:380:ARG:HA	41:SD:383:GLU:HG3	2.02	0.41
42:SE:81:GLY:O	42:SE:82:THR:C	2.58	0.41
42:SE:257:THR:HA	41:SF:397:TRP:CZ2	2.55	0.41
42:SE:399:TYR:CZ	42:SE:418:PHE:HB2	2.56	0.41
42:SG:202:PHE:HE2	42:SG:238:ILE:HD13	1.86	0.41
42:SG:326:LYS:HD3	41:SH:208:TYR:HB3	2.03	0.41
42:SK:54:SER:HB3	42:SK:64:ARG:NE	2.36	0.41
42:SK:144:GLY:O	42:SK:148:GLY:N	2.42	0.41
42:SK:306:ASP:OD2	42:SK:308:ARG:HG2	2.20	0.41
42:SK:346:TRP:CE3	41:SL:393:ALA:HB1	2.55	0.41
41:SL:192:LEU:HD12	41:SL:192:LEU:HA	1.93	0.41
41:TD:117:LEU:HA	41:TD:120:VAL:HB	2.03	0.41
41:TD:166:THR:HG23	41:TD:199:THR:HB	2.03	0.41
41:TH:36:TYR:CZ	41:TH:38:GLY:HA3	2.56	0.41
41:TJ:51:TYR:HB3	41:TJ:59:TYR:HB3	2.03	0.41
41:TJ:130:LEU:HD12	41:TJ:130:LEU:HA	1.92	0.41
41:TJ:262:ARG:NH1	41:TJ:421:GLU:OE2	2.53	0.41
42:TM:33:ASP:O	42:TM:60:LYS:HE3	2.20	0.41
42:TM:382:THR:HA	42:TM:384:ILE:HD11	2.03	0.41
42:UC:21:TRP:CZ2	42:UC:65:ALA:HB2	2.54	0.41
42:UC:298:PRO:HG2	42:UC:308:ARG:HG3	2.01	0.41
42:UE:217:LEU:HD23	42:UE:275:VAL:HG12	2.02	0.41
41:UF:70:PRO:HD3	41:UF:94:GLN:HA	2.01	0.41
41:UF:342:VAL:HG22	41:UF:348:ASN:HD22	1.84	0.41
42:UG:49:PHE:O	42:UG:51:THR:N	2.53	0.41
42:UG:174:ALA:HB3	42:UG:177:VAL:O	2.21	0.41
41:UH:132:GLY:HA2	41:UH:162:ARG:HB3	2.03	0.41
41:UH:268:PRO:HG2	41:UH:300:MET:HB2	2.03	0.41
41:UH:301:ALA:HB1	41:UH:377:LEU:HD11	2.02	0.41
42:UI:192:HIS:O	42:UI:192:HIS:ND1	2.45	0.41
42:UI:257:THR:HG21	41:UJ:98:GLY:O	2.20	0.41
41:VF:350:LYS:HD2	42:VG:179:THR:O	2.21	0.41
41:VH:357:PRO:HA	41:VH:358:PRO:HD3	1.90	0.41
42:VK:190:THR:O	42:VK:191:THR:C	2.58	0.41
41:VL:385:PHE:O	41:VL:389:PHE:N	2.54	0.41
42:VM:167:LEU:HD11	42:VM:202:PHE:CE1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:WE:9:VAL:HG12	42:WE:145:THR:HG22	2.02	0.41
41:WF:271:ALA:HB3	41:WF:272:PRO:HD3	2.02	0.41
42:WK:134:GLY:HA3	42:WK:165:SER:OG	2.21	0.41
41:WL:354:CYS:SG	41:WL:355:ASP:N	2.93	0.41
5:1O:108:GLY:H	42:KG:339:ARG:HH12	1.67	0.41
9:2D:369:ILE:HG21	42:IG:281:ALA:HB1	2.01	0.41
9:2D:474:GLY:HA2	42:IK:219:ILE:HD11	2.00	0.41
19:3J:325:THR:HB	19:3J:327:LYS:HG2	2.03	0.41
19:3K:154:LEU:HD13	19:3K:176:ILE:HG21	2.02	0.41
19:3K:164:HIS:CE1	19:3K:165:TRP:CE2	3.08	0.41
20:3N:11:HIS:CE1	41:KD:92:PHE:HB3	2.55	0.41
20:3N:246:ILE:HD12	20:3N:270:LEU:HB3	2.03	0.41
20:3O:396:MET:N	20:3O:396:MET:SD	2.93	0.41
22:3Z:199:LEU:HD12	22:3Z:202:GLN:NE2	2.36	0.41
22:4B:184:TYR:HB2	41:CL:48:ASN:ND2	2.35	0.41
24:4G:330:ALA:HA	24:4G:333:TYR:CD2	2.56	0.41
25:4I:29:TYR:HB2	25:4I:34:SER:HB3	2.02	0.41
25:4J:184:ALA:HB1	25:4J:194:ALA:HB2	2.03	0.41
26:4L:133:GLU:HG3	26:4L:134:TRP:H	1.86	0.41
26:4L:256:VAL:HG13	26:4L:259:LYS:NZ	2.36	0.41
26:4M:158:ASN:ND2	41:HB:306:ARG:HD3	2.36	0.41
27:4R:132:HIS:CE1	27:4R:171:VAL:HG12	2.55	0.41
27:4S:105:TYR:CD2	27:4S:141:LYS:HG3	2.56	0.41
30:5B:363:HIS:HB2	41:LN:283:ALA:HB1	2.01	0.41
32:5L:312:VAL:HG21	32:5M:193:ASN:HA	2.01	0.41
32:5L:314:HIS:ND1	32:5M:201:SER:OG	2.51	0.41
32:5M:268:LEU:HD11	32:5M:383:ILE:HA	2.02	0.41
32:5O:109:LEU:HD11	32:5O:140:HIS:CE1	2.56	0.41
32:5O:214:LEU:HD13	32:5O:214:LEU:HA	1.87	0.41
33:5S:328:GLU:O	33:5S:330:CYS:N	2.53	0.41
33:5T:295:GLU:HA	33:5T:298:ARG:HE	1.85	0.41
33:5T:325:PRO:O	33:5T:326:ASN:C	2.59	0.41
33:5W:54:ILE:O	33:5W:55:TRP:C	2.59	0.41
33:5W:270:ARG:HG2	34:6B:155:PHE:CD2	2.55	0.41
34:6A:478:ARG:HB3	34:6A:479:SER:H	1.73	0.41
34:6B:174:LEU:HD23	34:6B:244:LEU:HG	2.03	0.41
34:6D:426:GLU:O	34:6D:430:THR:HG23	2.20	0.41
34:6G:320:LYS:HE3	34:6G:320:LYS:HB3	1.86	0.41
34:6H:372:ILE:O	34:6H:376:GLU:HG3	2.20	0.41
34:6L:180:ARG:HD2	34:6L:181:LEU:N	2.36	0.41
35:6Q:118:GLN:O	35:6Q:118:GLN:NE2	2.43	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:6V:380:GLU:O	35:6V:384:LEU:N	2.35	0.41
36:6Y:103:PHE:HD1	36:6Y:106:ARG:HH11	1.69	0.41
37:7C:107:PHE:O	37:7C:109:GLU:N	2.49	0.41
41:AD:256:ASN:HB3	42:AE:404:PHE:HD1	1.85	0.41
42:AE:11:GLN:HG3	42:AE:74:VAL:HG21	2.02	0.41
41:AF:272:PRO:HG3	41:AF:364:SER:HA	2.02	0.41
41:AH:91:VAL:HG21	41:AH:116:VAL:HG22	2.02	0.41
41:AH:229:VAL:O	41:AH:233:MET:HG3	2.20	0.41
42:BC:309:HIS:ND1	42:BC:386:GLU:OE2	2.40	0.41
42:BE:219:ILE:HG13	42:BE:220:GLU:O	2.20	0.41
41:BF:313:VAL:HB	41:BF:367:PHE:HE1	1.86	0.41
42:BG:394:LYS:HA	42:BG:397:LEU:HD12	2.02	0.41
41:BH:139:LEU:HG	41:BH:168:SER:HB2	2.03	0.41
42:BI:280:LYS:HB2	42:BI:280:LYS:HE3	1.73	0.41
42:BI:319:TYR:HD2	42:BI:323:VAL:HG11	1.86	0.41
41:BJ:87:PRO:HD3	41:CJ:281:TYR:HD2	1.86	0.41
41:BL:137:HIS:HE1	41:BL:166:THR:HB	1.85	0.41
41:CF:156:ARG:HD3	41:CF:164:MET:HB2	2.03	0.41
41:CF:373:ALA:C	41:CF:375:GLN:N	2.74	0.41
42:CG:65:ALA:O	42:CG:91:GLN:NE2	2.52	0.41
42:CG:117:LEU:HD13	42:CG:117:LEU:HA	1.71	0.41
41:CJ:86:ARG:NH1	41:DJ:281:TYR:HB3	2.36	0.41
41:CJ:122:LYS:O	41:CJ:126:SER:HB3	2.20	0.41
41:CJ:290:THR:HG22	41:CJ:317:PHE:HZ	1.86	0.41
41:CL:385:PHE:CE1	41:CL:412:GLU:HB2	2.56	0.41
41:DB:61:PRO:HD3	41:DB:84:ILE:HG13	2.02	0.41
41:DB:206:ALA:O	41:DB:210:ILE:HG12	2.21	0.41
41:DB:287:PRO:HD3	41:DB:325:GLU:OE1	2.21	0.41
41:DD:150:LEU:HD23	41:DD:150:LEU:HA	1.85	0.41
42:DE:103:TYR:HB3	42:DE:408:TYR:HE2	1.85	0.41
41:DF:237:THR:HG23	41:DF:241:ARG:HH12	1.85	0.41
42:DG:217:LEU:HD22	42:DG:367:ASP:HB3	2.03	0.41
41:DH:238:THR:O	41:DH:240:LEU:HG	2.21	0.41
41:DL:186:THR:HG23	41:DL:187:LEU:HD22	2.02	0.41
41:DL:188:SER:O	41:DL:189:VAL:C	2.58	0.41
41:DL:193:VAL:HG22	41:DL:418:LEU:HD11	2.02	0.41
42:DM:88:HIS:NE2	42:EM:280:LYS:HB2	2.36	0.41
42:DM:175:PRO:HG3	42:DM:304:LYS:HB2	2.02	0.41
41:ED:251:ARG:O	41:ED:254:ALA:HB3	2.20	0.41
42:EE:14:VAL:HB	42:EE:74:VAL:HG12	2.01	0.41
42:EE:265:ILE:HG23	42:EE:432:TYR:HE2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:EF:22:GLU:HB3	41:EF:81:PHE:HB2	2.03	0.41
42:EG:31:GLN:O	42:EG:34:GLY:N	2.53	0.41
42:EG:264:ARG:HB2	42:EG:265:ILE:H	1.49	0.41
42:EG:430:LYS:HD2	42:EG:430:LYS:HA	1.85	0.41
41:EH:36:TYR:CD1	41:EH:44:LEU:HD12	2.56	0.41
41:EH:378:PHE:HD1	41:EH:415:MET:HE1	1.85	0.41
42:EI:186:ASN:O	42:EI:190:THR:OG1	2.38	0.41
42:EI:212:ILE:HG13	42:EI:302:MET:HG2	2.02	0.41
41:EL:341:PHE:HD1	41:EL:348:ASN:HD22	1.69	0.41
42:EM:117:LEU:H	42:EM:117:LEU:HG	1.56	0.41
42:EM:308:ARG:H	42:EM:308:ARG:HH11	1.69	0.41
42:FC:73:THR:O	42:FC:74:VAL:C	2.58	0.41
41:FD:31:ASP:O	41:FD:32:PRO:C	2.58	0.41
41:FD:56:GLY:O	41:FD:58:LYS:N	2.54	0.41
41:FD:178:THR:CG2	41:FD:181:GLU:HB2	2.45	0.41
42:FE:96:LYS:HE2	42:FE:96:LYS:HB3	1.81	0.41
42:FG:214:ARG:HH12	42:FG:215:ARG:NH1	2.18	0.41
41:FH:313:VAL:HB	41:FH:349:VAL:HG22	2.02	0.41
42:FI:336:LYS:NZ	42:FI:349:THR:HG22	2.36	0.41
42:FK:88:HIS:HB2	42:GK:283:HIS:HB3	2.02	0.41
42:FK:202:PHE:CE1	42:FK:270:ALA:HB2	2.55	0.41
42:GC:103:TYR:HH	42:GC:107:HIS:CE1	2.39	0.41
41:GD:86:ARG:NH2	41:HD:281:TYR:O	2.53	0.41
41:GD:214:THR:OG1	41:GD:215:LEU:N	2.54	0.41
42:GI:254:GLU:HA	41:GJ:98:GLY:CA	2.37	0.41
41:GJ:386:THR:C	41:GJ:388:MET:H	2.24	0.41
42:GK:21:TRP:CH2	42:GK:52:PHE:HB3	2.55	0.41
41:GL:350:LYS:HA	42:GM:179:THR:O	2.19	0.41
42:GM:17:GLY:C	42:GM:19:ALA:N	2.73	0.41
41:HB:208:TYR:HE1	41:HB:225:LEU:HD11	1.86	0.41
42:HC:175:PRO:HA	42:HC:390:ARG:NE	2.36	0.41
41:HD:311:LEU:HA	41:HD:342:VAL:CG2	2.50	0.41
42:HE:182:VAL:O	42:HE:185:TYR:N	2.54	0.41
42:HE:388:TRP:HB2	42:HE:429:GLU:OE1	2.20	0.41
41:HH:270:PHE:CD2	41:HH:273:LEU:HD21	2.55	0.41
41:HH:324:LYS:HB2	42:HI:222:PRO:HD2	1.99	0.41
42:HI:346:TRP:HZ2	42:HI:435:VAL:HB	1.86	0.41
41:HJ:10:GLY:O	41:HJ:11:GLN:C	2.59	0.41
41:HJ:372:THR:HG23	41:HJ:422:TYR:HB3	2.02	0.41
41:HL:325:GLU:H	41:HL:325:GLU:HG2	1.67	0.41
42:HM:107:HIS:HD2	42:HM:108:TYR:CZ	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:HM:123:ARG:O	42:HM:124:LYS:C	2.58	0.41
42:IC:213:CYS:HA	42:IC:217:LEU:HD13	2.03	0.41
41:ID:95:SER:OG	41:ID:108:GLU:OE1	2.38	0.41
42:IE:284:GLU:H	42:IE:284:GLU:HG2	1.69	0.41
42:IE:413:MET:HE2	42:IE:413:MET:HB3	1.94	0.41
41:IH:36:TYR:OH	41:IH:40:SER:O	2.38	0.41
41:IH:265:PHE:HB3	41:IH:374:ILE:HD13	2.02	0.41
41:IJ:178:THR:HB	41:IJ:181:GLU:HG3	2.01	0.41
42:IK:326:LYS:H	42:IK:326:LYS:HG2	1.57	0.41
41:IN:156:ARG:HD3	41:IN:156:ARG:HA	1.36	0.41
42:JE:234:ILE:HG22	42:JE:272:TYR:HB2	2.03	0.41
41:JH:170:VAL:HG21	41:JH:377:LEU:HD21	2.03	0.41
41:JH:229:VAL:O	41:JH:232:THR:OG1	2.38	0.41
42:JK:71:GLU:O	42:JK:71:GLU:HG2	2.21	0.41
41:JL:197:ASP:N	41:JL:197:ASP:OD1	2.54	0.41
42:JM:228:ASN:OD1	45:JM:501:GTP:N1	2.47	0.41
42:KC:320:ARG:HD3	42:KC:360:PRO:HG3	2.02	0.41
41:KD:117:LEU:O	41:KD:121:ARG:HG3	2.21	0.41
41:KJ:10:GLY:HA2	41:KJ:143:THR:HG23	2.02	0.41
41:KJ:162:ARG:HA	41:KJ:162:ARG:HD3	1.86	0.41
42:KM:139:HIS:HE1	42:KM:168:GLU:CG	2.34	0.41
41:KN:291:GLN:HE21	41:LN:122:LYS:HD3	1.85	0.41
41:LD:102:ALA:HB2	41:LD:403:MET:HE3	2.02	0.41
42:LK:119:LEU:O	42:LK:123:ARG:HG3	2.20	0.41
42:LK:319:TYR:HB3	42:LK:323:VAL:HG21	2.02	0.41
41:LL:208:TYR:CE1	41:LL:225:LEU:HD11	2.56	0.41
41:LN:319:GLY:N	41:LN:354:CYS:O	2.54	0.41
42:MC:245:ASP:OD1	42:MC:246:GLY:N	2.53	0.41
41:MD:323:MET:HB3	42:ME:223:THR:HA	2.03	0.41
42:ME:7:VAL:HB	42:ME:137:ILE:HD13	2.03	0.41
42:MG:172:TYR:CE2	42:MG:387:ALA:HB1	2.55	0.41
41:MJ:314:ALA:HA	41:MJ:350:LYS:HB3	2.02	0.41
42:MM:130:THR:OG1	42:MM:131:GLY:N	2.54	0.41
42:NA:11:GLN:HA	42:NA:74:VAL:HG21	2.02	0.41
42:NA:21:TRP:HA	42:NA:21:TRP:CE3	2.56	0.41
41:NB:42:LEU:HD13	41:NB:42:LEU:HA	1.83	0.41
42:NC:259:LEU:O	42:NC:261:PRO:HD3	2.21	0.41
42:NC:273:ALA:HB3	42:NC:375:VAL:H	1.85	0.41
41:ND:272:PRO:HB2	41:ND:361:LEU:HD22	2.02	0.41
41:NF:12:CYS:O	41:NF:16:ILE:HG13	2.21	0.41
41:NF:143:THR:O	41:NF:147:MET:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:NF:204:ASN:HD22	41:NF:204:ASN:HA	1.56	0.41
42:NG:422:ARG:HD2	42:NG:422:ARG:HA	1.71	0.41
41:NH:252:LYS:O	41:NH:253:LEU:C	2.59	0.41
42:NI:7:VAL:HG11	42:NI:153:LEU:HD21	2.02	0.41
42:NI:286:LEU:HA	42:NI:286:LEU:HD12	1.77	0.41
42:NI:313:MET:HA	42:NI:344:VAL:HG22	2.02	0.41
42:NK:102:ASN:O	42:NK:103:TYR:C	2.58	0.41
42:NK:191:THR:O	42:NK:192:HIS:C	2.57	0.41
42:OA:217:LEU:HD22	42:OA:275:VAL:HG22	2.03	0.41
41:OB:121:ARG:O	41:OB:122:LYS:C	2.59	0.41
41:OB:151:LEU:HA	41:OB:151:LEU:HD12	1.77	0.41
41:OB:181:GLU:O	41:OB:182:PRO:C	2.58	0.41
42:OC:306:ASP:HB2	42:OC:309:HIS:NE2	2.36	0.41
41:OH:2:ARG:HA	41:OH:131:GLN:HB2	2.03	0.41
41:OH:156:ARG:HD3	41:OH:156:ARG:HA	1.62	0.41
41:OH:410:GLU:H	41:OH:410:GLU:HG3	1.67	0.41
42:OI:348:PRO:HG2	41:OJ:384:GLN:HG2	2.03	0.41
42:PA:5:ILE:HG22	42:PA:66:VAL:HG12	2.02	0.41
42:PA:213:CYS:HA	42:PA:217:LEU:HD13	2.01	0.41
41:PD:6:HIS:HE1	41:PD:136:THR:HG23	1.86	0.41
41:PD:256:ASN:ND2	42:PE:101:ASN:HD21	2.19	0.41
41:PD:371:SER:C	41:PD:373:ALA:H	2.23	0.41
42:PE:180:ALA:H	42:PE:183:GLU:CD	2.24	0.41
41:PF:207:LEU:HG	41:PF:225:LEU:HD12	2.01	0.41
42:PG:86:LEU:O	42:PG:87:PHE:C	2.59	0.41
42:PG:206:ASN:OD1	42:PG:227:LEU:HD11	2.20	0.41
42:PI:153:LEU:O	42:PI:156:ARG:N	2.52	0.41
42:PI:221:ARG:HD3	42:PI:221:ARG:HA	1.71	0.41
42:PI:292:THR:O	42:PI:294:ALA:N	2.54	0.41
42:PI:396:ASP:C	42:PI:398:MET:H	2.24	0.41
41:PJ:63:ALA:HB3	41:PJ:89:ASN:ND2	2.35	0.41
41:PJ:66:VAL:HA	41:PJ:91:VAL:O	2.20	0.41
41:PJ:347:ASN:ND2	42:PK:179:THR:O	2.54	0.41
41:PL:12:CYS:O	41:PL:16:ILE:HG13	2.21	0.41
41:PL:139:LEU:O	41:PL:140:GLY:C	2.59	0.41
41:PL:286:VAL:HG22	41:PL:321:MET:HG3	2.02	0.41
41:PL:372:THR:O	41:PL:373:ALA:C	2.59	0.41
41:QB:12:CYS:HB2	43:QB:501:GDP:C8	2.55	0.41
42:QE:206:ASN:OD1	42:QE:224:TYR:OH	2.24	0.41
41:QF:3:GLU:HB2	41:QF:130:LEU:HG	2.02	0.41
42:QG:252:LEU:HA	42:QG:255:PHE:CD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:QH:182:PRO:HB3	41:QH:384:GLN:HB3	2.02	0.41
41:QH:395:LEU:HA	41:QH:398:TYR:HB2	2.03	0.41
42:QI:101:ASN:ND2	42:QI:143:GLY:HA2	2.35	0.41
41:QJ:37:HIS:O	41:QJ:39:ASP:N	2.54	0.41
41:QJ:42:LEU:HD12	41:QJ:243:PRO:HG2	2.02	0.41
41:QJ:162:ARG:H	41:QJ:162:ARG:HG2	1.43	0.41
41:QJ:186:THR:HG22	41:QJ:381:ILE:HG23	2.03	0.41
41:QJ:245:GLN:HB3	41:QJ:246:LEU:H	1.58	0.41
42:QK:31:GLN:HG2	42:QK:33:ASP:H	1.86	0.41
42:QK:218:ASP:HB2	42:QK:280:LYS:HE2	2.03	0.41
41:QL:323:MET:HB3	41:QL:324:LYS:H	1.71	0.41
41:QL:401:GLU:O	41:QL:402:GLY:C	2.59	0.41
42:RC:181:VAL:HG13	42:RC:182:VAL:HG23	2.01	0.41
41:RD:133:PHE:HB2	41:RD:164:MET:SD	2.60	0.41
41:RD:228:LEU:HD12	41:RD:228:LEU:HA	1.85	0.41
42:RE:169:PHE:HZ	42:RE:238:ILE:HG21	1.85	0.41
41:RF:54:ALA:HB3	41:RF:58:LYS:HB2	2.03	0.41
41:RF:388:MET:HA	41:RF:393:ALA:HB2	2.01	0.41
42:RG:136:LEU:HB3	42:RG:138:PHE:HE1	1.85	0.41
42:RG:157:LEU:HB3	42:RG:166:LYS:HZ1	1.85	0.41
42:RG:359:PRO:HB3	42:RG:372:GLN:O	2.20	0.41
41:RH:363:MET:SD	41:RH:363:MET:N	2.93	0.41
42:RI:169:PHE:HE2	42:RI:235:VAL:HA	1.86	0.41
42:RI:236:SER:OG	42:RI:237:SER:N	2.54	0.41
41:RJ:180:VAL:HG22	41:RJ:398:TYR:HE2	1.86	0.41
41:RJ:338:SER:O	41:RJ:339:SER:C	2.59	0.41
42:RK:203:MET:HB3	42:RK:269:LEU:HD23	2.02	0.41
42:RK:225:THR:O	42:RK:229:ARG:HG2	2.21	0.41
42:RK:236:SER:HG	42:RK:320:ARG:HH12	1.69	0.41
41:RL:148:GLY:O	41:RL:152:ILE:HG12	2.20	0.41
41:SD:4:ILE:HB	41:SD:50:TYR:CE1	2.55	0.41
41:SD:189:VAL:HA	41:SD:192:LEU:HB3	2.03	0.41
41:SD:311:LEU:HD23	41:SD:342:VAL:HG21	2.03	0.41
41:SF:148:GLY:O	41:SF:152:ILE:HG13	2.20	0.41
41:SF:189:VAL:O	41:SF:193:VAL:HG23	2.21	0.41
41:SF:298:ASN:O	41:SF:300:MET:N	2.53	0.41
41:SF:323:MET:SD	42:SG:210:TYR:OH	2.67	0.41
42:SI:217:LEU:H	42:SI:217:LEU:HG	1.41	0.41
42:SM:69:ASP:OD1	42:SM:70:LEU:N	2.52	0.41
41:TD:105:HIS:HA	41:TD:150:LEU:HD22	2.01	0.41
42:TE:177:VAL:N	42:TE:207:GLU:OE2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:TF:4:ILE:HG13	41:TF:50:TYR:HE1	1.86	0.41
41:TF:324:LYS:O	41:TF:328:GLU:HG3	2.21	0.41
42:TI:219:ILE:HG21	42:TI:222:PRO:HB3	2.02	0.41
41:TJ:30:ILE:HG13	41:TJ:51:TYR:HE2	1.85	0.41
41:TL:350:LYS:HD2	41:TL:350:LYS:HA	1.83	0.41
41:UH:187:LEU:HD23	41:UH:411:ALA:HB2	2.03	0.41
42:UI:419:SER:O	42:UI:423:GLU:HG3	2.20	0.41
42:UK:188:ILE:HD12	42:UK:425:MET:HG2	2.03	0.41
42:UK:234:ILE:HD13	42:UK:234:ILE:HA	1.92	0.41
42:UK:325:PRO:HG3	41:UL:222:TYR:CD2	2.56	0.41
41:VD:284:LEU:HD12	41:VD:284:LEU:HA	1.95	0.41
41:VD:311:LEU:H	41:VD:311:LEU:HD12	1.86	0.41
42:VE:317:LEU:HD22	42:VE:332:ILE:HD11	2.03	0.41
41:VF:100:ASN:HB3	41:VF:103:LYS:HG2	2.03	0.41
41:VF:170:VAL:HG11	41:VF:377:LEU:HD21	2.02	0.41
41:VF:263:LEU:HB3	41:VF:370:ASN:HD21	1.85	0.41
42:VG:89:PRO:HD3	42:WG:283:HIS:CE1	2.56	0.41
42:VG:262:TYR:HB2	42:VG:265:ILE:HG12	2.02	0.41
41:VH:8:GLN:O	41:VH:66:VAL:HG22	2.20	0.41
41:VJ:252:LYS:O	41:VJ:256:ASN:ND2	2.54	0.41
42:VK:118:VAL:O	42:VK:122:ILE:HG13	2.21	0.41
41:VL:246:LEU:HD13	45:VM:501:GTP:H5'	2.03	0.41
42:VM:103:TYR:HB3	42:VM:408:TYR:HE2	1.86	0.41
42:WC:115:ILE:HD12	42:WC:115:ILE:HA	1.91	0.41
41:WD:139:LEU:HB2	41:WD:170:VAL:HA	2.02	0.41
42:WE:70:LEU:H	42:WE:70:LEU:HG	1.67	0.41
42:WE:171:ILE:HA	42:WE:204:VAL:O	2.20	0.41
41:WF:95:SER:OG	41:WF:96:GLY:N	2.53	0.41
41:WF:286:VAL:HG12	41:WF:329:GLN:HG3	2.03	0.41
42:WI:339:ARG:HH21	42:WI:339:ARG:HA	1.84	0.41
41:WN:249:ASP:OD1	41:WN:250:LEU:N	2.53	0.41
5:1O:108:GLY:H	42:KG:339:ARG:NH1	2.17	0.41
9:2D:493:GLY:HA2	42:IK:286:LEU:H	1.84	0.41
13:2S:206:GLU:OE2	41:GF:280:GLN:NE2	2.37	0.41
20:3N:21:LEU:HD13	41:KD:87:PRO:HB3	2.03	0.41
21:3V:191:LEU:HD22	21:3V:253:ILE:HG23	2.02	0.41
22:3Y:19:GLY:O	22:3Y:21:THR:N	2.53	0.41
26:4K:203:ALA:HA	26:4K:206:MET:HB2	2.03	0.41
32:5M:218:LEU:O	32:5M:222:ASN:ND2	2.54	0.41
33:5T:177:ARG:HA	33:5T:180:MET:HE2	2.02	0.41
33:5X:329:LEU:HD22	33:5Y:209:PRO:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:6A:296:VAL:HG12	34:6A:299:SER:H	1.85	0.41
34:6B:123:ASP:CB	34:6C:437:ARG:HH12	2.31	0.41
34:6D:362:GLN:HG3	34:6D:459:LEU:HD11	2.02	0.41
34:6E:403:ARG:HH21	34:6F:149:ARG:HG2	1.86	0.41
34:6F:358:LYS:HE3	34:6F:358:LYS:HB3	1.48	0.41
35:6P:63:ARG:HA	35:6P:63:ARG:HD2	1.85	0.41
35:6Q:64:TYR:HE2	35:6R:318:LEU:HG	1.86	0.41
35:6R:240:PHE:HD1	35:6R:240:PHE:HA	1.74	0.41
35:6S:145:THR:HG22	35:6S:183:ILE:HG23	2.03	0.41
35:6S:294:ARG:HD3	35:6S:440:VAL:HG22	2.01	0.41
41:AB:18:ALA:HB2	41:AB:76:VAL:HG13	2.03	0.41
42:AE:175:PRO:HB3	42:AE:390:ARG:NH1	2.35	0.41
41:AH:218:THR:O	41:AH:220:PRO:HD3	2.20	0.41
41:AH:427:ASP:O	41:AH:428:ALA:C	2.59	0.41
42:AK:88:HIS:CE1	42:BK:280:LYS:HG3	2.56	0.41
41:AL:102:ALA:HA	41:AL:106:TYR:HD2	1.86	0.41
41:AL:276:ARG:HA	41:AL:276:ARG:HD2	1.77	0.41
42:BC:258:ASN:ND2	42:BC:352:LYS:HD2	2.31	0.41
41:BF:170:VAL:N	41:BF:202:ILE:O	2.51	0.41
42:BK:53:PHE:HB3	42:BK:61:HIS:HB3	2.02	0.41
41:BL:68:LEU:HD11	41:BL:147:MET:HB2	2.02	0.41
41:BL:86:ARG:NH1	41:BL:89:ASN:OD1	2.53	0.41
41:CD:197:ASP:OD1	41:CD:197:ASP:N	2.53	0.41
41:CD:362:LYS:HA	41:CD:362:LYS:HD3	1.78	0.41
42:CE:111:GLY:O	42:CE:115:ILE:HG12	2.20	0.41
41:CF:100:ASN:O	41:CF:101:TRP:C	2.59	0.41
41:CF:324:LYS:CB	42:CG:222:PRO:HD2	2.51	0.41
42:CG:28:HIS:O	42:CG:29:GLY:C	2.59	0.41
41:CH:151:LEU:HD22	41:CH:155:ILE:HD11	2.03	0.41
42:CI:250:VAL:HG11	42:CI:318:LEU:HD21	2.03	0.41
41:CJ:266:PHE:HA	41:CJ:369:GLY:O	2.20	0.41
42:CK:234:ILE:HD13	42:CK:234:ILE:HA	1.88	0.41
42:CM:12:ALA:O	42:CM:16:ILE:HG12	2.21	0.41
41:DB:260:PHE:HA	42:DC:406:HIS:CE1	2.55	0.41
41:DD:68:LEU:HG	41:DD:143:THR:HG23	2.02	0.41
41:DD:250:LEU:HA	41:DD:253:LEU:HD12	2.03	0.41
42:DG:316:CYS:SG	42:DG:378:LEU:HD12	2.59	0.41
41:DH:186:THR:HG21	41:DH:385:PHE:CD2	2.55	0.41
41:DH:306:ARG:H	41:DH:306:ARG:HG3	1.69	0.41
42:DI:184:PRO:HG2	42:DI:398:MET:CE	2.50	0.41
42:DI:351:PHE:H	41:DJ:179:VAL:HG22	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DJ:54:ALA:O	41:DJ:57:GLY:N	2.54	0.41
41:DJ:54:ALA:N	41:EJ:282:ARG:NH1	2.69	0.41
42:DK:210:TYR:HD1	42:DK:222:PRO:HG2	1.85	0.41
42:DM:98:ASP:O	42:DM:105:ARG:NH2	2.49	0.41
42:EC:316:CYS:HA	42:EC:352:LYS:HB3	2.03	0.41
42:EC:324:VAL:O	42:EC:328:VAL:HG23	2.21	0.41
42:EC:356:ASN:OD1	42:EC:357:TYR:N	2.54	0.41
42:EE:406:HIS:O	42:EE:407:TRP:C	2.58	0.41
42:EE:408:TYR:O	42:EE:411:GLU:HB2	2.21	0.41
41:EF:101:TRP:HZ3	41:EF:403:MET:SD	2.44	0.41
41:EF:286:VAL:HG12	41:EF:329:GLN:HG3	2.02	0.41
41:EF:296:ALA:HB2	41:EF:306:ARG:HH12	1.85	0.41
42:EG:30:ILE:H	42:EG:30:ILE:HG12	1.59	0.41
42:EG:68:VAL:O	42:EG:69:ASP:HB2	2.21	0.41
42:EG:248:LEU:HD23	42:EG:248:LEU:HA	1.85	0.41
42:EG:281:ALA:O	42:EG:283:HIS:N	2.48	0.41
42:EG:306:ASP:OD1	42:EG:308:ARG:HB3	2.21	0.41
42:EG:308:ARG:C	42:EG:310:GLY:H	2.24	0.41
42:EG:391:LEU:O	42:EG:394:LYS:HB2	2.20	0.41
42:EG:420:GLU:H	42:EG:420:GLU:HG3	1.71	0.41
41:EJ:186:THR:HG23	41:EJ:415:MET:HE3	2.03	0.41
41:EJ:324:LYS:O	41:EJ:328:GLU:N	2.42	0.41
42:EK:68:VAL:HA	42:EK:93:ILE:O	2.21	0.41
42:FC:273:ALA:HB2	42:FC:295:CYS:SG	2.61	0.41
42:FE:406:HIS:HA	42:FE:409:VAL:HG12	2.02	0.41
41:FF:322:SER:CB	41:FF:325:GLU:HB2	2.48	0.41
42:FG:217:LEU:HB3	42:FG:367:ASP:OD2	2.20	0.41
41:FH:2:ARG:HB2	41:FH:240:LEU:HD12	2.02	0.41
41:FH:60:VAL:HG21	41:FH:86:ARG:NH2	2.36	0.41
42:FI:166:LYS:HG2	42:FI:197:HIS:NE2	2.35	0.41
41:FJ:25:SER:HB2	41:FJ:81:PHE:HE2	1.85	0.41
41:FL:104:GLY:O	41:FL:147:MET:N	2.54	0.41
42:FM:97:GLU:HG3	42:FM:105:ARG:HH12	1.86	0.41
42:FM:101:ASN:HA	42:FM:144:GLY:H	1.85	0.41
42:FM:317:LEU:O	42:FM:354:GLY:N	2.49	0.41
41:GD:207:LEU:HB3	41:GD:225:LEU:HG	2.03	0.41
42:GI:324:VAL:HB	42:GI:327:ASP:HB2	2.03	0.41
42:GM:4:CYS:HB2	42:GM:136:LEU:HD13	2.02	0.41
42:GM:87:PHE:HB2	42:GM:92:LEU:HD11	2.03	0.41
41:HB:396:HIS:CD2	42:HM:263:PRO:HD3	2.56	0.41
42:HC:63:PRO:HG3	42:HC:87:PHE:CD1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:HD:42:LEU:HD12	41:HD:42:LEU:HA	1.87	0.41
41:HD:324:LYS:HG2	41:HD:328:GLU:HG3	2.01	0.41
42:HE:88:HIS:HB2	42:HE:91:GLN:HG3	2.02	0.41
42:HE:156:ARG:HA	42:HE:156:ARG:HD3	1.83	0.41
41:HF:5:VAL:HG12	41:HF:62:ARG:HG2	2.02	0.41
41:HF:65:LEU:HB3	41:HF:73:MET:HE1	2.02	0.41
42:HI:311:LYS:HE2	42:HI:311:LYS:HB3	1.61	0.41
42:HI:353:VAL:HG12	41:HJ:177:ASP:HA	2.01	0.41
41:HJ:8:GLN:HG3	41:HJ:65:LEU:HA	2.02	0.41
41:HJ:154:LYS:H	41:HJ:154:LYS:HG2	1.69	0.41
42:HK:101:ASN:HA	42:HK:143:GLY:HA2	2.03	0.41
41:ID:214:THR:HG23	41:ID:215:LEU:HD12	2.02	0.41
41:IF:105:HIS:CE1	41:IF:150:LEU:HD12	2.55	0.41
42:II:27:GLU:OE2	42:II:243:ARG:NH1	2.38	0.41
41:IL:132:GLY:HA2	41:IL:162:ARG:HB3	2.03	0.41
41:IL:147:MET:HE2	41:IL:147:MET:HB2	1.93	0.41
42:IM:260:VAL:CG1	41:IN:397:TRP:HZ2	2.33	0.41
41:IN:67:ASP:OD2	41:IN:69:GLU:N	2.49	0.41
41:IN:158:GLU:O	41:IN:160:PRO:HD3	2.21	0.41
41:IN:185:ALA:O	41:IN:188:SER:N	2.53	0.41
42:JC:3:GLU:HB3	42:JC:129:CYS:SG	2.61	0.41
41:JD:88:ASP:C	41:JD:90:PHE:H	2.24	0.41
41:JD:398:TYR:O	41:JD:403:MET:HB3	2.21	0.41
42:JE:21:TRP:CH2	42:JE:52:PHE:HB3	2.55	0.41
42:JE:100:ALA:O	42:JE:101:ASN:ND2	2.54	0.41
42:JE:346:TRP:HB3	41:JF:391:ARG:NH1	2.35	0.41
41:JF:247:ASN:C	41:JF:247:ASN:ND2	2.70	0.41
41:JF:280:GLN:H	41:JF:280:GLN:HG2	1.66	0.41
41:JF:345:ILE:HD13	42:JG:398:MET:HG2	2.02	0.41
42:JG:62:VAL:HG21	42:MG:283:HIS:O	2.21	0.41
41:JH:406:MET:HG2	41:NF:306:ARG:NH2	2.36	0.41
41:JJ:51:TYR:HB3	41:JJ:59:TYR:HB3	2.03	0.41
42:JK:419:SER:O	42:JK:420:GLU:C	2.59	0.41
42:JK:434:GLU:H	42:JK:434:GLU:HG3	1.43	0.41
41:JL:110:ALA:HA	41:JL:113:VAL:HG22	2.02	0.41
41:JL:288:GLU:O	41:JL:291:GLN:HG3	2.20	0.41
42:KC:192:HIS:NE2	42:KC:420:GLU:OE1	2.54	0.41
42:KC:324:VAL:HG23	42:KC:327:ASP:H	1.85	0.41
41:KD:213:ARG:HG3	41:KD:214:THR:HG23	2.01	0.41
41:KJ:319:GLY:HA2	41:KJ:357:PRO:HD3	2.02	0.41
41:KL:156:ARG:HD3	41:KL:164:MET:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:KM:228:ASN:HA	42:KM:231:ILE:HD12	2.03	0.41
41:LD:318:ARG:HB2	41:LD:358:PRO:HD3	2.03	0.41
42:LE:175:PRO:O	42:LE:394:LYS:NZ	2.52	0.41
42:LI:216:ASN:HB3	42:LI:275:VAL:O	2.21	0.41
42:LK:12:ALA:O	42:LK:16:ILE:HG13	2.20	0.41
41:LL:248:ALA:HA	41:LL:252:LYS:HD2	2.02	0.41
41:MD:44:LEU:HD12	41:MD:44:LEU:HA	1.94	0.41
41:MD:359:ARG:HE	41:MD:359:ARG:HB3	1.49	0.41
42:ME:237:SER:HA	42:ME:240:ALA:HB2	2.03	0.41
41:MF:320:ARG:NE	41:MF:355:ASP:HB2	2.34	0.41
41:MJ:245:GLN:NE2	41:MJ:355:ASP:OD1	2.47	0.41
41:ML:336:LYS:HA	41:ML:336:LYS:HD2	1.87	0.41
41:MN:151:LEU:O	41:MN:152:ILE:C	2.58	0.41
41:MN:321:MET:HG2	41:MN:363:MET:HB3	2.01	0.41
41:NB:202:ILE:HG23	41:NB:268:PRO:HG2	2.02	0.41
41:ND:282:ARG:O	41:ND:283:ALA:C	2.59	0.41
42:NE:121:ARG:NH1	42:NE:124:LYS:HB2	2.36	0.41
41:NH:199:THR:HG23	41:NH:265:PHE:HA	2.03	0.41
41:NJ:105:HIS:HD2	41:NJ:150:LEU:HD22	1.86	0.41
42:NK:86:LEU:HB3	42:NK:87:PHE:H	1.62	0.41
42:NK:356:ASN:HB2	42:NK:358:GLN:HE22	1.85	0.41
42:NK:401:LYS:O	42:NK:402:ARG:C	2.59	0.41
41:NL:282:ARG:O	41:NL:282:ARG:HD2	2.20	0.41
42:OA:124:LYS:HB2	42:OA:124:LYS:HE2	1.70	0.41
42:OA:208:ALA:O	42:OA:212:ILE:HG12	2.21	0.41
42:OA:265:ILE:HG13	42:OA:435:VAL:HG11	2.02	0.41
41:OB:304:ASP:C	41:OB:306:ARG:N	2.74	0.41
42:OC:7:VAL:HG22	42:OC:137:ILE:HG22	2.03	0.41
42:OC:132:LEU:HD12	42:OC:164:LYS:HG2	2.02	0.41
42:OC:210:TYR:CE1	42:OC:227:LEU:HD11	2.56	0.41
42:OE:154:MET:HE1	42:OE:194:THR:HG22	2.03	0.41
42:OE:260:VAL:HG23	42:OE:265:ILE:O	2.21	0.41
42:OI:171:ILE:HA	42:OI:204:VAL:O	2.21	0.41
41:OJ:248:ALA:HA	41:OJ:252:LYS:HD3	2.02	0.41
41:OJ:313:VAL:HA	41:OJ:369:GLY:HA2	2.02	0.41
42:OK:169:PHE:CE1	42:OK:202:PHE:HD2	2.39	0.41
41:OL:171:PRO:O	41:OL:380:ARG:NH2	2.53	0.41
42:PA:10:GLY:O	42:PA:13:GLY:N	2.53	0.41
42:PA:308:ARG:HA	42:PA:308:ARG:CZ	2.50	0.41
42:PC:183:GLU:HA	42:PC:186:ASN:ND2	2.35	0.41
42:PC:401:LYS:HE2	42:PC:401:LYS:HB3	1.42	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:PD:62:ARG:HA	41:PD:86:ARG:HH22	1.86	0.41
42:PE:8:HIS:HA	42:PE:138:PHE:HB2	2.03	0.41
42:PE:33:ASP:O	42:PE:86:LEU:HB2	2.20	0.41
42:PE:262:TYR:CE2	42:PE:435:VAL:HB	2.56	0.41
42:PE:359:PRO:HB3	42:PE:372:GLN:HA	2.02	0.41
41:PF:148:GLY:O	41:PF:152:ILE:HG23	2.20	0.41
42:PG:132:LEU:HD12	42:PG:133:GLN:H	1.86	0.41
42:PG:174:ALA:HB1	42:PG:175:PRO:CD	2.51	0.41
41:PH:76:VAL:O	41:PH:77:ARG:C	2.58	0.41
41:PH:117:LEU:HD13	41:PH:117:LEU:HA	1.57	0.41
41:PH:259:PRO:CD	41:PH:260:PHE:H	2.33	0.41
42:PI:27:GLU:HG3	42:PI:28:HIS:N	2.36	0.41
42:PI:116:ASP:O	42:PI:120:ASP:HB2	2.21	0.41
42:PI:140:SER:OG	42:PI:141:PHE:N	2.50	0.41
42:PI:214:ARG:C	42:PI:216:ASN:H	2.23	0.41
41:PJ:107:THR:O	41:PJ:108:GLU:C	2.58	0.41
42:PK:320:ARG:HG2	42:PK:374:ALA:HB3	2.03	0.41
42:PK:403:ALA:O	42:PK:404:PHE:C	2.59	0.41
41:PL:2:ARG:HB3	41:PL:131:GLN:OE1	2.20	0.41
41:PL:135:LEU:HD23	41:PL:166:THR:HA	2.03	0.41
41:PL:228:LEU:H	41:PL:228:LEU:HG	1.74	0.41
41:QB:250:LEU:HD13	41:QB:250:LEU:HA	1.88	0.41
42:QC:153:LEU:O	42:QC:157:LEU:N	2.42	0.41
42:QC:260:VAL:HB	41:QD:397:TRP:CZ2	2.56	0.41
41:QD:252:LYS:NZ	41:QD:350:LYS:HE2	2.36	0.41
41:QD:256:ASN:HD21	42:QE:180:ALA:HB1	1.85	0.41
42:QE:83:TYR:O	42:QE:85:GLN:N	2.54	0.41
42:QE:193:THR:O	42:QE:197:HIS:ND1	2.43	0.41
42:QE:332:ILE:O	42:QE:336:LYS:HG3	2.20	0.41
41:QF:236:VAL:HG13	41:QF:237:THR:HG23	2.03	0.41
42:QG:140:SER:HA	42:QG:171:ILE:HG13	2.03	0.41
41:QH:3:GLU:HB3	41:QH:62:ARG:NH1	2.36	0.41
42:QI:117:LEU:H	42:QI:117:LEU:HG	1.43	0.41
42:QI:427:ALA:HA	42:QI:430:LYS:HD3	2.02	0.41
42:QK:115:ILE:HG12	42:QK:149:PHE:CE1	2.55	0.41
41:QL:3:GLU:O	41:QL:131:GLN:N	2.50	0.41
41:QL:418:LEU:O	41:QL:421:GLU:HB3	2.21	0.41
41:RD:36:TYR:CE1	41:RD:38:GLY:HA3	2.56	0.41
41:RD:286:VAL:O	41:RD:287:PRO:C	2.58	0.41
41:RD:289:LEU:H	41:RD:289:LEU:HG	1.58	0.41
41:RF:87:PRO:O	41:RF:90:PHE:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:RG:250:VAL:HG11	42:RG:318:LEU:HD22	2.02	0.41
42:RI:7:VAL:HB	42:RI:122:ILE:HD11	2.03	0.41
42:RI:155:GLU:HA	42:RI:197:HIS:CE1	2.56	0.41
42:RI:419:SER:O	42:RI:422:ARG:N	2.52	0.41
42:SC:137:ILE:HG21	42:SC:154:MET:CE	2.51	0.41
41:SD:303:CYS:SG	41:SD:377:LEU:HD13	2.61	0.41
42:SE:164:LYS:HB3	42:SE:164:LYS:HE3	1.80	0.41
42:SE:212:ILE:C	42:SE:214:ARG:H	2.23	0.41
41:SF:131:GLN:HE22	41:SF:251:ARG:HE	1.69	0.41
41:SF:267:MET:H	41:SF:267:MET:HG2	1.73	0.41
42:SG:33:ASP:OD2	42:SG:34:GLY:N	2.54	0.41
42:SG:242:LEU:HD12	42:SG:252:LEU:HD13	2.02	0.41
41:SH:153:SER:HA	41:SH:156:ARG:HH12	1.86	0.41
41:SH:202:ILE:HG13	41:SH:229:VAL:HG23	2.03	0.41
42:SK:240:ALA:HB1	42:SK:320:ARG:HH11	1.85	0.41
41:SL:346:PRO:HB2	41:SL:347:ASN:H	1.60	0.41
42:SM:108:TYR:HD2	42:SM:109:THR:HG23	1.86	0.41
42:SM:259:LEU:O	42:SM:380:ASN:ND2	2.53	0.41
41:TD:135:LEU:HD22	41:TD:152:ILE:HD11	2.03	0.41
41:TD:152:ILE:HD12	41:TD:164:MET:CE	2.51	0.41
42:TG:30:ILE:HD13	42:TG:30:ILE:HG21	1.78	0.41
42:TG:188:ILE:HG21	42:TG:395:PHE:CE2	2.56	0.41
42:TK:204:VAL:HG12	42:TK:302:MET:HB3	2.03	0.41
41:TL:173:PRO:HG2	41:TL:205:GLU:OE1	2.20	0.41
42:TM:109:THR:HG22	42:TM:110:ILE:H	1.86	0.41
42:TM:218:ASP:HB2	42:TM:280:LYS:HZ1	1.86	0.41
42:UC:326:LYS:NZ	41:UD:218:THR:O	2.45	0.41
42:UG:317:LEU:HD13	42:UG:377:MET:HB2	2.03	0.41
42:UG:325:PRO:HD2	41:UH:221:THR:HA	2.02	0.41
41:UH:137:HIS:HE1	41:UH:139:LEU:HD23	1.85	0.41
41:UH:202:ILE:HD13	41:UH:229:VAL:HG13	2.03	0.41
41:UJ:73:MET:HA	41:UJ:76:VAL:HG22	2.02	0.41
42:UM:336:LYS:HA	42:UM:343:PHE:HE2	1.85	0.41
42:UM:420:GLU:HA	42:UM:423:GLU:HG3	2.02	0.41
42:VC:329:ASN:HB2	41:VD:175:VAL:HG22	2.03	0.41
41:VD:46:ARG:NH2	42:VE:72:PRO:O	2.53	0.41
42:VE:12:ALA:HB3	42:VE:140:SER:HB2	2.02	0.41
42:VE:115:ILE:HG12	42:VE:152:LEU:HG	2.03	0.41
42:VE:274:PRO:HG3	42:VE:374:ALA:HA	2.03	0.41
41:VF:322:SER:HB2	42:VG:221:ARG:HB3	2.02	0.41
41:VH:137:HIS:NE2	41:VH:166:THR:HB	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:VH:237:THR:HB	41:VH:240:LEU:HD23	2.03	0.41
42:VI:88:HIS:CD2	42:WI:283:HIS:HB2	2.56	0.41
41:VJ:377:LEU:HA	41:VJ:380:ARG:NH2	2.36	0.41
41:VJ:421:GLU:HA	41:VJ:424:GLN:HB3	2.03	0.41
42:VK:5:ILE:HB	42:VK:132:LEU:HD11	2.02	0.41
41:VL:334:GLN:HE22	41:VL:347:ASN:HA	1.86	0.41
42:VM:206:ASN:ND2	45:VM:501:GTP:HN22	2.19	0.41
42:VM:224:TYR:O	42:VM:228:ASN:ND2	2.54	0.41
41:WD:65:LEU:HD11	41:WD:85:PHE:HD2	1.86	0.41
42:WE:437:MET:HE2	42:WE:437:MET:HB2	1.84	0.41
41:WF:359:ARG:H	41:WF:359:ARG:HG2	1.44	0.41
42:WG:17:GLY:HA2	42:WG:20:CYS:HB3	2.02	0.41
41:WJ:320:ARG:HD2	41:WJ:320:ARG:HA	1.70	0.41
4:1K:129:LYS:HD3	42:JE:220:GLU:H	1.85	0.41
8:1X:149:ILE:O	27:4P:78:ARG:NH2	2.40	0.41
12:2Q:136:ASP:HB3	41:WL:276:ARG:NH2	2.35	0.41
15:3A:81:LEU:HD13	41:JJ:270:PHE:CE2	2.56	0.41
15:3A:86:PRO:HD3	41:JJ:362:LYS:HA	2.02	0.41
19:3K:155:SER:HA	19:3K:162:HIS:CD2	2.56	0.41
20:3O:169:VAL:HG12	32:5M:363:LYS:HE3	2.03	0.41
20:3O:343:ASP:OD1	20:3O:343:ASP:N	2.48	0.41
20:3O:512:ASP:CG	42:EE:41:THR:H	2.24	0.41
20:3P:101:VAL:HB	20:3P:117:ILE:HB	2.03	0.41
20:3P:159:PHE:HA	20:3P:162:ASN:HB2	2.03	0.41
20:3P:459:SER:HB2	41:FJ:276:ARG:HH12	1.86	0.41
21:3T:221:ILE:HG22	21:3T:227:LYS:HD3	2.03	0.41
21:3U:51:THR:HB	41:KH:337:ASN:HD21	1.86	0.41
21:3U:163:LYS:O	21:3U:167:GLU:HG2	2.21	0.41
21:3V:108:PHE:HA	21:3V:111:THR:HG22	2.02	0.41
21:3V:207:TRP:HA	21:3V:210:VAL:HG12	2.02	0.41
22:4A:195:SER:O	22:4A:199:LEU:N	2.41	0.41
22:4B:181:PHE:HA	42:CM:79:ARG:NH1	2.36	0.41
23:4D:84:GLU:OE1	23:4D:86:GLN:N	2.54	0.41
24:4F:26:LEU:O	24:4F:29:GLU:HG2	2.21	0.41
24:4G:153:LYS:H	24:4G:153:LYS:HG2	1.66	0.41
25:4J:128:LEU:HD12	25:4J:133:ALA:HA	2.03	0.41
25:4J:282:VAL:HA	25:4J:285:PHE:HB3	2.02	0.41
25:4J:316:THR:O	25:4J:317:ASN:C	2.58	0.41
26:4M:146:GLY:HA2	26:4M:149:ALA:HB3	2.02	0.41
27:4O:207:SER:OG	27:4O:210:GLY:O	2.31	0.41
27:4P:105:TYR:OH	27:4P:134:MET:O	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:4P:223:ASP:O	27:4P:227:GLU:HG2	2.20	0.41
27:4Q:105:TYR:OH	27:4Q:142:ILE:HD12	2.21	0.41
27:4S:151:ILE:HG23	27:4S:152:PRO:HD3	2.03	0.41
27:4S:217:LYS:O	27:4S:219:GLU:N	2.53	0.41
27:4T:157:LEU:HB3	27:4T:196:ILE:HG21	2.03	0.41
27:4T:233:GLU:OE1	27:4T:241:PHE:HD1	2.04	0.41
28:4W:79:PRO:HB2	42:GM:46:ASP:O	2.20	0.41
31:5F:59:SER:HG	31:5F:62:THR:HG1	1.61	0.41
31:5G:111:LEU:HD23	31:5G:111:LEU:HA	1.95	0.41
31:5G:126:LEU:HB3	31:5G:128:CYS:H	1.85	0.41
32:5N:338:ILE:HD12	32:5O:206:ARG:HD3	2.03	0.41
32:5O:76:GLU:CD	33:5T:266:ARG:HH21	2.25	0.41
32:5O:91:LEU:HD23	32:5O:91:LEU:HA	1.78	0.41
32:5O:192:ASN:OD1	32:5O:192:ASN:N	2.52	0.41
33:5R:131:ASP:N	33:5R:131:ASP:OD1	2.54	0.41
33:5R:154:LYS:HB3	33:5R:243:ILE:HG12	2.01	0.41
33:5S:72:SER:O	33:5S:75:LYS:N	2.54	0.41
33:5S:203:ILE:H	33:5S:203:ILE:HG13	1.42	0.41
33:5T:123:ARG:HE	33:5T:123:ARG:HB2	1.59	0.41
33:5T:125:ASP:O	33:5T:126:ILE:HG22	2.21	0.41
33:5V:92:LEU:O	33:5V:96:LYS:N	2.35	0.41
33:5V:252:ASN:HD22	34:6A:320:LYS:HD3	1.86	0.41
33:5V:258:ARG:HD2	33:5V:258:ARG:HA	1.76	0.41
33:5W:56:ASP:C	33:5W:58:HIS:H	2.24	0.41
33:5W:61:ARG:HG2	33:5W:190:LEU:HD11	2.01	0.41
33:5W:327:VAL:HG21	33:5X:221:LEU:HD23	2.03	0.41
34:6B:360:LYS:HB3	34:6B:360:LYS:HE3	1.51	0.41
34:6C:313:SER:OG	34:6C:314:GLU:N	2.53	0.41
34:6D:398:THR:O	34:6D:399:ARG:C	2.59	0.41
34:6F:292:ALA:HA	34:6J:68:TYR:O	2.21	0.41
34:6F:315:ARG:O	34:6F:318:SER:OG	2.31	0.41
34:6H:291:ASP:OD1	34:6L:69:CYS:HB3	2.20	0.41
34:6L:180:ARG:HH22	34:6L:325:ILE:HG22	1.86	0.41
34:6L:476:MET:H	34:6L:476:MET:HG3	1.69	0.41
34:6M:196:ARG:HB3	34:6M:200:PHE:CE2	2.56	0.41
34:6M:261:LYS:NZ	34:6M:304:THR:OG1	2.42	0.41
35:6R:47:ARG:NH1	35:6R:51:TYR:HA	2.36	0.41
35:6U:186:ILE:HD13	35:6U:186:ILE:HA	1.96	0.41
35:6U:294:ARG:NH2	35:6U:440:VAL:HG13	2.36	0.41
35:6U:304:PHE:HE2	35:6U:434:ARG:HD3	1.85	0.41
35:6V:397:GLU:O	35:6V:401:SER:N	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:6Y:85:LEU:HD12	36:6Y:115:GLU:HG3	2.03	0.41
37:7C:233:ALA:O	37:7C:235:VAL:N	2.54	0.41
39:7K:45:TYR:HB2	39:7K:92:ARG:HG2	2.03	0.41
40:7N:430:ASN:HB3	40:7N:441:ASN:ND2	2.36	0.41
41:AB:32:PRO:HD3	41:AB:81:PHE:CZ	2.55	0.41
42:AC:165:SER:O	42:AC:165:SER:OG	2.38	0.41
41:AF:6:HIS:CD2	41:AF:134:GLN:HE21	2.39	0.41
41:AF:152:ILE:HD13	41:AF:196:THR:HG22	2.03	0.41
41:AH:16:ILE:HG22	41:AH:233:MET:HE1	2.02	0.41
41:AH:87:PRO:O	41:AH:88:ASP:C	2.59	0.41
41:AH:107:THR:O	41:AH:108:GLU:C	2.60	0.41
41:AH:112:LEU:HD23	41:AH:112:LEU:HA	1.89	0.41
41:AH:187:LEU:HD21	41:AH:408:PHE:CD1	2.56	0.41
41:AH:188:SER:O	41:AH:191:GLN:N	2.53	0.41
41:AH:260:PHE:HB2	41:AH:263:LEU:HD22	2.02	0.41
41:AH:292:GLN:C	41:AH:294:PHE:H	2.24	0.41
41:AH:322:SER:HB3	42:AI:221:ARG:HG2	2.03	0.41
41:AH:390:ARG:HG3	41:AH:391:ARG:H	1.86	0.41
42:AI:256:GLN:HE21	41:AJ:397:TRP:HH2	1.68	0.41
41:AJ:113:VAL:HG11	41:AJ:154:LYS:HE2	2.03	0.41
41:AJ:257:MET:HE3	41:AJ:370:ASN:HB2	2.02	0.41
41:AJ:322:SER:HB2	42:AK:222:PRO:O	2.21	0.41
41:AJ:324:LYS:HG2	42:AK:222:PRO:HD2	2.02	0.41
42:AK:29:GLY:O	42:AK:30:ILE:C	2.59	0.41
42:AK:214:ARG:HE	42:AK:214:ARG:HB2	1.62	0.41
42:AK:269:LEU:HD21	42:AK:305:CYS:SG	2.60	0.41
41:BB:189:VAL:HA	41:BB:192:LEU:HB2	2.03	0.41
41:BD:29:GLY:O	41:BD:30:ILE:HG13	2.21	0.41
41:BD:137:HIS:HB3	41:BD:138:SER:H	1.68	0.41
41:BD:193:VAL:HA	41:BD:264:HIS:HE1	1.86	0.41
42:BE:238:ILE:HG23	42:BE:255:PHE:CZ	2.56	0.41
42:BG:209:ILE:HG12	42:BG:302:MET:SD	2.61	0.41
41:BL:182:PRO:HG2	41:BL:384:GLN:HG2	2.02	0.41
41:CB:228:LEU:HD11	41:CB:273:LEU:HD11	2.03	0.41
42:CE:291:ILE:HG23	42:CE:375:VAL:HG21	2.02	0.41
41:CF:385:PHE:O	41:CF:386:THR:C	2.59	0.41
42:CG:118:VAL:HG11	42:CG:153:LEU:HD11	2.03	0.41
42:CG:276:ILE:HG22	42:CG:280:LYS:HG3	2.02	0.41
42:CG:300:ASN:HD22	42:CG:300:ASN:HA	1.59	0.41
41:CH:291:GLN:HE21	41:CH:291:GLN:HB3	1.68	0.41
42:CI:273:ALA:HB2	42:CI:295:CYS:SG	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:CJ:155:ILE:HD13	41:CJ:155:ILE:HA	1.98	0.41
41:CL:101:TRP:CD1	41:CL:145:SER:HB3	2.56	0.41
41:CL:246:LEU:HA	41:CL:246:LEU:HD23	1.71	0.41
41:DB:182:PRO:HG3	41:DB:384:GLN:HB3	2.03	0.41
42:DC:153:LEU:HD23	42:DC:153:LEU:HA	1.88	0.41
41:DD:141:GLY:O	41:DD:184:ASN:ND2	2.53	0.41
42:DE:202:PHE:CD1	42:DE:268:PRO:HG2	2.56	0.41
42:DG:51:THR:HG21	42:DG:243:ARG:HG2	2.03	0.41
41:DH:53:GLU:H	41:DH:53:GLU:HG2	1.45	0.41
41:DH:73:MET:HG2	41:DH:90:PHE:HB3	2.02	0.41
41:DH:132:GLY:HA2	41:DH:162:ARG:HB3	2.03	0.41
41:DH:184:ASN:OD1	41:DH:184:ASN:N	2.52	0.41
41:DH:233:MET:HE3	41:DH:233:MET:HB2	1.77	0.41
41:DH:313:VAL:HG22	41:DH:367:PHE:CE1	2.56	0.41
41:DJ:58:LYS:N	41:EJ:282:ARG:HD3	2.36	0.41
41:DJ:271:ALA:HB3	41:DJ:272:PRO:CD	2.49	0.41
41:DJ:284:LEU:HD22	41:DJ:362:LYS:HG2	2.02	0.41
41:DJ:347:ASN:HB3	42:DK:181:VAL:HG23	2.02	0.41
41:DJ:401:GLU:O	41:DJ:403:MET:N	2.53	0.41
41:DJ:404:ASP:C	41:DJ:406:MET:N	2.74	0.41
41:DJ:410:GLU:C	41:DJ:412:GLU:H	2.24	0.41
42:DK:162:GLY:O	42:DK:164:LYS:N	2.52	0.41
42:DK:264:ARG:O	42:DK:266:HIS:N	2.54	0.41
42:DK:273:ALA:HB3	42:DK:274:PRO:HD3	2.02	0.41
41:DL:113:VAL:HG12	41:DL:147:MET:HG3	2.03	0.41
41:DL:202:ILE:HD13	41:DL:229:VAL:HG13	2.03	0.41
41:DL:204:ASN:ND2	43:DL:501:GDP:N3	2.69	0.41
41:DL:386:THR:HG22	41:DL:412:GLU:OE2	2.20	0.41
41:ED:52:ASN:HB3	41:ED:53:GLU:H	1.67	0.41
41:ED:58:LYS:HZ1	41:FD:281:TYR:HE1	1.66	0.41
41:ED:60:VAL:HG11	41:ED:86:ARG:HG3	2.03	0.41
41:ED:259:PRO:HB3	41:ED:344:TRP:CH2	2.56	0.41
41:EF:33:THR:HG23	41:EF:35:THR:H	1.86	0.41
41:EF:116:VAL:O	41:EF:120:VAL:HG13	2.20	0.41
41:EF:122:LYS:HD2	41:FF:291:GLN:NE2	2.33	0.41
41:EF:131:GLN:OE1	41:EF:251:ARG:NH1	2.54	0.41
41:EF:253:LEU:HA	41:EF:350:LYS:NZ	2.34	0.41
42:EG:4:CYS:SG	42:EG:51:THR:O	2.73	0.41
42:EG:40:LYS:HA	42:EG:40:LYS:HD3	1.52	0.41
42:EG:133:GLN:HG3	42:EG:242:LEU:HD21	2.02	0.41
42:EG:173:PRO:O	42:EG:174:ALA:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:EH:246:LEU:HD22	45:EI:501:GTP:C8	2.56	0.41
42:EI:118:VAL:HG23	42:EI:119:LEU:HD12	2.03	0.41
41:EJ:412:GLU:HA	41:EJ:415:MET:HB3	2.03	0.41
42:EK:16:ILE:HA	42:EK:228:ASN:OD1	2.21	0.41
42:EK:48:SER:HB2	42:EK:243:ARG:HB2	2.01	0.41
42:EK:115:ILE:HD12	42:EK:115:ILE:HA	1.79	0.41
41:EL:245:GLN:NE2	42:EM:224:TYR:HB2	2.35	0.41
42:EM:182:VAL:O	42:EM:183:GLU:C	2.59	0.41
42:EM:202:PHE:HE1	42:EM:378:LEU:HD13	1.86	0.41
42:EM:386:GLU:O	42:EM:387:ALA:C	2.59	0.41
42:FC:130:THR:O	42:FC:130:THR:OG1	2.28	0.41
42:FC:274:PRO:HG3	42:FC:291:ILE:HG21	2.02	0.41
42:FC:395:PHE:CE2	42:FC:399:TYR:HB2	2.55	0.41
41:FD:273:LEU:H	41:FD:273:LEU:HG	1.69	0.41
41:FD:331:LEU:HD12	41:FD:334:GLN:HE21	1.85	0.41
42:FE:185:TYR:HE2	42:FE:404:PHE:HD2	1.69	0.41
42:FE:195:LEU:HD21	42:FE:428:LEU:HD13	2.03	0.41
42:FE:324:VAL:HA	42:FE:325:PRO:HD3	1.84	0.41
41:FF:61:PRO:HG3	41:FF:84:ILE:HG23	2.03	0.41
41:FF:156:ARG:NH1	41:FF:160:PRO:O	2.54	0.41
41:FF:317:PHE:HB2	41:FF:353:VAL:HA	2.02	0.41
42:FG:115:ILE:HD11	42:FG:153:LEU:HA	2.03	0.41
42:FG:175:PRO:HD2	42:FG:207:GLU:HG2	2.03	0.41
42:FG:320:ARG:HB3	42:FG:374:ALA:HB3	2.03	0.41
41:FH:227:HIS:O	41:FH:232:THR:HG23	2.21	0.41
41:FJ:137:HIS:CE1	41:FJ:168:SER:HB2	2.56	0.41
41:FJ:238:THR:OG1	41:FJ:241:ARG:NH1	2.54	0.41
41:FJ:257:MET:SD	41:FJ:314:ALA:HB2	2.61	0.41
41:FJ:315:ALA:HB1	41:FJ:317:PHE:CE1	2.56	0.41
41:FJ:324:LYS:HD2	42:FK:222:PRO:O	2.21	0.41
42:FK:108:TYR:OH	42:FK:413:MET:HG2	2.20	0.41
42:FK:115:ILE:HA	42:FK:118:VAL:HG22	2.02	0.41
42:FK:212:ILE:HA	42:FK:215:ARG:NH2	2.35	0.41
42:FK:359:PRO:HA	42:FK:360:PRO:HD2	1.95	0.41
41:FL:3:GLU:HG3	41:FL:129:CYS:O	2.21	0.41
41:FL:31:ASP:O	41:FL:33:THR:N	2.52	0.41
41:FL:193:VAL:HA	41:FL:264:HIS:NE2	2.35	0.41
41:FL:358:PRO:HG2	41:FL:361:LEU:HB3	2.02	0.41
41:FL:358:PRO:O	41:FL:359:ARG:C	2.59	0.41
42:FM:175:PRO:HG2	42:FM:207:GLU:OE2	2.21	0.41
42:FM:255:PHE:O	42:FM:259:LEU:HG	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:GD:49:VAL:HG11	41:GD:241:ARG:HB3	2.02	0.41
41:GD:346:PRO:CG	42:GE:394:LYS:HZ2	2.34	0.41
41:GF:20:PHE:HA	41:GF:23:VAL:HG12	2.03	0.41
41:GF:164:MET:H	41:GF:197:ASP:HB2	1.86	0.41
41:GF:295:ASP:OD2	41:GF:297:LYS:NZ	2.49	0.41
42:GG:109:THR:HG21	42:GG:411:GLU:OE1	2.21	0.41
42:GG:240:ALA:HA	42:GG:243:ARG:HB3	2.02	0.41
41:GH:113:VAL:HG11	41:GH:154:LYS:HZ3	1.85	0.41
41:GJ:142:GLY:O	41:GJ:146:GLY:N	2.54	0.41
42:GK:204:VAL:HG22	42:GK:205:ASP:H	1.85	0.41
41:GL:214:THR:HG21	41:GL:298:ASN:HA	2.02	0.41
42:GM:172:TYR:CD2	42:GM:173:PRO:HD2	2.56	0.41
42:HC:7:VAL:HB	42:HC:137:ILE:HG23	2.03	0.41
42:HC:21:TRP:CZ3	42:HC:52:PHE:HB3	2.56	0.41
42:HC:194:THR:O	42:HC:197:HIS:N	2.54	0.41
42:HC:195:LEU:HD13	42:HC:266:HIS:CE1	2.54	0.41
42:HC:255:PHE:HE2	42:HC:318:LEU:HD21	1.85	0.41
42:HC:419:SER:O	42:HC:422:ARG:HB2	2.20	0.41
42:HE:298:PRO:HG2	42:HE:308:ARG:NH2	2.35	0.41
42:HE:324:VAL:HG11	41:HF:219:THR:HB	2.01	0.41
42:HE:328:VAL:O	42:HE:332:ILE:HG12	2.20	0.41
41:HF:139:LEU:HD12	41:HF:170:VAL:HG23	2.03	0.41
41:HF:327:ASP:HB3	42:HG:177:VAL:CG2	2.51	0.41
42:HG:131:GLY:O	42:HG:132:LEU:C	2.59	0.41
42:HG:155:GLU:O	42:HG:156:ARG:C	2.59	0.41
42:HG:174:ALA:HA	42:HG:205:ASP:OD2	2.21	0.41
42:HG:221:ARG:H	42:HG:221:ARG:HG3	1.80	0.41
42:HG:287:SER:O	42:HG:288:VAL:C	2.58	0.41
41:HH:26:ASP:O	41:HH:359:ARG:NH1	2.54	0.41
41:HH:62:ARG:HG2	41:HH:123:GLU:OE2	2.21	0.41
42:HI:269:LEU:HD12	42:HI:269:LEU:HA	1.93	0.41
41:HJ:101:TRP:CD1	41:HJ:105:HIS:NE2	2.89	0.41
41:HJ:250:LEU:O	41:HJ:251:ARG:C	2.58	0.41
41:HJ:255:VAL:HG11	42:HK:102:ASN:OD1	2.20	0.41
41:HJ:311:LEU:HA	41:HJ:342:VAL:CG2	2.50	0.41
41:HJ:331:LEU:HD13	42:HK:176:GLN:HG3	2.02	0.41
42:HK:118:VAL:HG21	42:HK:149:PHE:CZ	2.56	0.41
42:HK:182:VAL:O	42:HK:185:TYR:HB2	2.21	0.41
41:HL:2:ARG:NH1	41:HL:240:LEU:HD12	2.36	0.41
41:HL:73:MET:HB3	41:HL:92:PHE:CD2	2.55	0.41
41:HL:103:LYS:HB2	41:HL:401:GLU:HG2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:HL:211:CYS:SG	41:HL:220:PRO:HB3	2.61	0.41
41:HL:252:LYS:HB3	41:HL:252:LYS:HE3	1.83	0.41
42:HM:57:GLY:O	42:HM:58:ALA:HB2	2.21	0.41
42:IC:271:THR:HG22	42:IC:301:GLN:HA	2.03	0.41
42:IC:274:PRO:HG2	42:IC:374:ALA:HA	2.01	0.41
42:IE:326:LYS:HE3	42:IE:326:LYS:HB3	1.56	0.41
41:IF:28:HIS:NE2	41:IF:241:ARG:HD2	2.35	0.41
41:IF:135:LEU:HD21	41:IF:148:GLY:HA2	2.03	0.41
41:IF:210:ILE:HG21	41:IF:228:LEU:HD21	2.03	0.41
42:IG:209:ILE:HG23	42:IG:230:LEU:HD12	2.03	0.41
41:IH:47:ILE:HG13	41:IH:51:TYR:HB2	2.03	0.41
42:II:52:PHE:CZ	42:II:239:THR:HG21	2.55	0.41
42:II:168:GLU:OE2	42:II:198:SER:HB2	2.21	0.41
41:IJ:70:PRO:HA	41:IJ:73:MET:HB2	2.02	0.41
41:IJ:232:THR:O	41:IJ:236:VAL:HG23	2.21	0.41
41:IL:19:LYS:HG2	41:IL:226:ASN:HB3	2.02	0.41
41:IL:101:TRP:NE1	41:IL:184:ASN:HA	2.28	0.41
41:IL:170:VAL:HG23	41:IL:203:ASP:HB3	2.02	0.41
41:IL:324:LYS:NZ	42:IM:220:GLU:OE2	2.54	0.41
42:JC:16:ILE:HD11	42:JC:138:PHE:HB3	2.03	0.41
42:JC:105:ARG:NH2	42:JC:110:ILE:HD11	2.35	0.41
41:JD:36:TYR:CD2	41:JD:44:LEU:HD12	2.56	0.41
42:JE:12:ALA:HA	42:JE:15:GLN:HG3	2.02	0.41
42:JE:265:ILE:HG21	42:JE:313:MET:HE1	2.03	0.41
41:JF:86:ARG:HB3	41:JF:89:ASN:HB2	2.02	0.41
42:JG:79:ARG:HH21	42:JG:92:LEU:HB2	1.86	0.41
42:JI:256:GLN:O	42:JI:260:VAL:HG22	2.21	0.41
41:JJ:87:PRO:HG2	41:MJ:278:SER:HB2	2.02	0.41
42:JK:51:THR:HG21	42:JK:243:ARG:HB3	2.02	0.41
42:JK:319:TYR:HB2	42:JK:355:ILE:HD13	2.03	0.41
41:JL:24:ILE:HG22	41:JL:51:TYR:HE2	1.86	0.41
42:KC:138:PHE:CZ	42:KC:235:VAL:HG21	2.56	0.41
41:KF:385:PHE:HE2	41:KF:412:GLU:HB2	1.84	0.41
42:KK:237:SER:HA	42:KK:320:ARG:HH11	1.85	0.41
41:KL:70:PRO:HA	41:KL:73:MET:HE2	2.01	0.41
41:KL:210:ILE:O	41:KL:214:THR:OG1	2.36	0.41
41:KL:347:ASN:OD1	41:KL:348:ASN:N	2.53	0.41
42:KM:224:TYR:HD2	42:KM:224:TYR:HA	1.81	0.41
42:KM:262:TYR:HD2	42:KM:265:ILE:HG13	1.85	0.41
42:KM:269:LEU:HD22	42:KM:269:LEU:HA	1.80	0.41
42:LC:88:HIS:HE2	42:LC:90:GLU:HB2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:LD:134:GLN:NE2	41:LD:233:MET:SD	2.94	0.41
42:LE:350:GLY:H	41:LF:179:VAL:HG23	1.85	0.41
42:LE:423:GLU:HA	42:LE:426:ALA:HB3	2.03	0.41
41:LF:293:MET:HG3	41:LF:367:PHE:HB2	2.02	0.41
41:LH:237:THR:HG23	41:LH:240:LEU:HD21	2.03	0.41
42:LI:265:ILE:HG23	42:LI:432:TYR:CZ	2.55	0.41
42:LI:295:CYS:O	42:LI:301:GLN:NE2	2.54	0.41
41:LJ:3:GLU:HA	41:LJ:49:VAL:HG23	2.03	0.41
41:LJ:180:VAL:HG23	41:LJ:184:ASN:HD21	1.86	0.41
42:LM:240:ALA:HB1	42:LM:356:ASN:HD22	1.85	0.41
42:MC:378:LEU:HD23	42:MC:378:LEU:HA	1.98	0.41
41:MD:394:PHE:O	41:MD:395:LEU:C	2.59	0.41
42:ME:9:VAL:HG13	42:ME:139:HIS:HB3	2.02	0.41
41:MF:271:ALA:HB3	41:MF:272:PRO:HD3	2.03	0.41
42:MG:231:ILE:O	42:MG:235:VAL:HG23	2.20	0.41
42:MI:168:GLU:OE2	42:MI:198:SER:OG	2.33	0.41
41:MJ:246:LEU:HB3	41:MJ:353:VAL:HG22	2.03	0.41
42:MK:356:ASN:OD1	42:MK:357:TYR:N	2.54	0.41
41:ML:193:VAL:HG11	41:ML:262:ARG:HH21	1.86	0.41
41:ML:240:LEU:HD22	41:ML:249:ASP:HA	2.03	0.41
42:MM:150:THR:O	42:MM:154:MET:HG2	2.20	0.41
42:MM:261:PRO:HG2	42:MM:265:ILE:HD12	2.02	0.41
42:MM:326:LYS:HE3	41:MN:208:TYR:CG	2.55	0.41
41:MN:119:VAL:O	41:MN:123:GLU:HG2	2.21	0.41
41:MN:160:PRO:O	41:MN:161:ASP:C	2.60	0.41
41:MN:269:GLY:HA2	41:MN:300:MET:HG3	2.02	0.41
41:MN:373:ALA:O	41:MN:375:GLN:N	2.53	0.41
42:NA:22:GLU:HG2	42:NA:26:LEU:HD22	2.02	0.41
42:NA:228:ASN:O	42:NA:231:ILE:HG22	2.21	0.41
42:NA:401:LYS:O	42:NA:402:ARG:C	2.59	0.41
41:NB:361:LEU:H	41:NB:361:LEU:HG	1.69	0.41
41:NB:421:GLU:HA	41:NB:424:GLN:HE21	1.86	0.41
41:NB:424:GLN:HE21	41:NB:424:GLN:HB3	1.71	0.41
42:NC:34:GLY:HA3	42:NC:86:LEU:HD13	2.02	0.41
42:NC:119:LEU:HD13	42:NC:119:LEU:HA	1.66	0.41
41:ND:423:GLN:O	41:ND:424:GLN:C	2.60	0.41
42:NE:5:ILE:HG23	42:NE:125:LEU:HD22	2.02	0.41
42:NE:6:SER:HB3	42:NE:8:HIS:HE2	1.86	0.41
42:NE:167:LEU:HD11	42:NE:252:LEU:HD22	2.02	0.41
42:NG:209:ILE:HG23	42:NG:230:LEU:HD23	2.03	0.41
42:NG:245:ASP:HB2	42:NG:246:GLY:H	1.76	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:NG:256:GLN:H	42:NG:256:GLN:HG2	1.62	0.41
42:NG:287:SER:HA	42:NG:373:ARG:HH21	1.86	0.41
42:NG:288:VAL:HG22	42:NG:323:VAL:HG12	2.03	0.41
42:NI:248:LEU:CD2	41:NJ:177:ASP:OD1	2.67	0.41
42:NI:317:LEU:HB3	42:NI:319:TYR:HE1	1.86	0.41
41:NJ:239:CYS:SG	41:NJ:248:ALA:N	2.78	0.41
41:NJ:347:ASN:O	42:NK:181:VAL:HG23	2.21	0.41
42:NK:100:ALA:O	42:NK:102:ASN:N	2.54	0.41
41:NL:101:TRP:CE3	41:NL:187:LEU:HD13	2.55	0.41
42:OA:3:GLU:N	42:OA:3:GLU:OE2	2.52	0.41
42:OA:324:VAL:HA	42:OA:325:PRO:HD3	1.97	0.41
41:OB:100:ASN:HB3	41:OB:103:LYS:HG3	2.02	0.41
41:OB:208:TYR:CE1	41:OB:225:LEU:HD11	2.56	0.41
41:OB:261:PRO:O	41:OB:262:ARG:C	2.58	0.41
41:OB:323:MET:CE	42:OC:223:THR:HB	2.50	0.41
42:OC:11:GLN:HE21	42:OC:74:VAL:HG11	1.86	0.41
41:OD:173:PRO:HD3	41:OD:380:ARG:HH22	1.86	0.41
41:OD:192:LEU:O	41:OD:196:THR:OG1	2.38	0.41
41:OD:236:VAL:HG12	41:OD:368:ILE:HD11	2.02	0.41
41:OD:317:PHE:HB3	41:OD:321:MET:SD	2.61	0.41
42:OE:152:LEU:HD21	42:OE:156:ARG:HE	1.85	0.41
41:OF:213:ARG:HE	41:OF:297:LYS:NZ	2.19	0.41
41:OF:271:ALA:HB1	41:OF:289:LEU:HG	2.02	0.41
42:OG:7:VAL:HG13	42:OG:137:ILE:HA	2.03	0.41
41:OH:90:PHE:O	41:OH:91:VAL:C	2.58	0.41
41:OH:210:ILE:HG22	41:OH:215:LEU:HD22	2.03	0.41
42:OI:115:ILE:CD1	42:OI:152:LEU:HD22	2.51	0.41
42:OI:154:MET:SD	42:OI:197:HIS:HB2	2.61	0.41
42:OI:285:GLN:O	42:OI:287:SER:N	2.54	0.41
41:OJ:62:ARG:H	41:OJ:62:ARG:HG3	1.60	0.41
41:OJ:255:VAL:HA	42:OK:407:TRP:CD1	2.56	0.41
41:OJ:268:PRO:HG2	41:OJ:300:MET:HE2	2.02	0.41
42:OK:88:HIS:HA	42:PK:283:HIS:CE1	2.56	0.41
42:OK:101:ASN:HD21	42:OK:180:ALA:HB1	1.86	0.41
42:PA:194:THR:HA	42:PA:198:SER:HB2	2.03	0.41
41:PB:139:LEU:HB3	41:PB:140:GLY:H	1.65	0.41
41:PB:172:SER:HB2	41:PB:205:GLU:CD	2.40	0.41
41:PB:338:SER:O	41:PB:339:SER:C	2.60	0.41
42:PC:20:CYS:HB2	42:PC:235:VAL:HG21	2.01	0.41
42:PC:134:GLY:HA2	42:PC:166:LYS:HD3	2.03	0.41
42:PC:216:ASN:HB2	42:PC:275:VAL:HG22	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:PC:280:LYS:HG3	42:PC:280:LYS:HZ3	1.80	0.41
42:PC:317:LEU:O	42:PC:318:LEU:C	2.59	0.41
41:PD:138:SER:HA	41:PD:169:VAL:HG23	2.02	0.41
41:PD:273:LEU:HD22	41:PD:273:LEU:HA	1.75	0.41
41:PD:304:ASP:O	41:PD:305:PRO:C	2.59	0.41
42:PE:3:GLU:HB3	42:PE:129:CYS:SG	2.61	0.41
42:PE:8:HIS:O	42:PE:67:PHE:HA	2.21	0.41
42:PE:216:ASN:O	42:PE:217:LEU:C	2.58	0.41
42:PE:403:ALA:C	42:PE:405:VAL:H	2.23	0.41
41:PF:98:GLY:O	41:PF:99:ASN:C	2.59	0.41
41:PF:103:LYS:HA	41:PF:103:LYS:HD2	1.38	0.41
41:PF:121:ARG:O	41:PF:122:LYS:C	2.58	0.41
41:PH:193:VAL:HG11	41:PH:262:ARG:HH21	1.85	0.41
41:PH:344:TRP:CH2	41:PH:425:TYR:HB3	2.56	0.41
41:PH:385:PHE:HZ	41:PH:408:PHE:HB3	1.84	0.41
42:PI:58:ALA:O	42:PI:60:LYS:N	2.53	0.41
42:PI:68:VAL:HG21	42:PI:118:VAL:HG22	2.03	0.41
42:PI:111:GLY:O	42:PI:152:LEU:HD12	2.21	0.41
42:PI:195:LEU:HD23	42:PI:195:LEU:HA	1.74	0.41
42:PI:267:PHE:CE2	42:PI:428:LEU:HD21	2.56	0.41
42:PI:292:THR:C	42:PI:294:ALA:N	2.73	0.41
42:PI:320:ARG:HE	42:PI:320:ARG:HB2	1.74	0.41
42:PI:406:HIS:O	42:PI:407:TRP:C	2.59	0.41
41:PJ:5:VAL:HG22	41:PJ:62:ARG:CD	2.51	0.41
41:PJ:41:ASP:C	41:PJ:43:GLN:H	2.24	0.41
41:PJ:181:GLU:HB2	41:PJ:182:PRO:HD3	2.03	0.41
41:PJ:388:MET:HE2	41:PJ:388:MET:HB2	1.79	0.41
42:PK:121:ARG:HA	42:PK:121:ARG:HD3	1.33	0.41
42:PK:256:GLN:O	42:PK:257:THR:C	2.60	0.41
42:PK:258:ASN:HD21	41:PL:179:VAL:HG13	1.86	0.41
41:PL:192:LEU:HD12	41:PL:192:LEU:HA	1.78	0.41
41:PL:275:SER:O	41:PL:276:ARG:C	2.59	0.41
41:PL:327:ASP:O	41:PL:331:LEU:HB2	2.21	0.41
41:PL:337:ASN:OD1	41:PL:337:ASN:N	2.52	0.41
41:PL:399:THR:O	41:PL:400:GLY:C	2.59	0.41
41:QB:164:MET:HB3	41:QB:196:THR:HA	2.03	0.41
41:QB:167:PHE:HB3	41:QB:202:ILE:HD12	2.03	0.41
42:QC:174:ALA:HB3	42:QC:177:VAL:O	2.21	0.41
42:QC:204:VAL:HG11	42:QC:231:ILE:HG21	2.03	0.41
41:QD:113:VAL:HG11	41:QD:150:LEU:HD22	2.03	0.41
41:QD:193:VAL:HA	41:QD:264:HIS:NE2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:QD:198:GLU:HA	41:QD:266:PHE:HE1	1.86	0.41
42:QE:68:VAL:HG13	42:QE:93:ILE:HG21	2.03	0.41
42:QE:172:TYR:CD1	42:QE:173:PRO:HD2	2.56	0.41
42:QE:286:LEU:HD22	42:QE:371:VAL:HG23	2.02	0.41
41:QH:101:TRP:HB2	41:QH:184:ASN:HB3	2.02	0.41
41:QH:182:PRO:HB2	41:QH:388:MET:HE1	2.03	0.41
41:QH:207:LEU:HA	41:QH:210:ILE:HD12	2.02	0.41
41:QH:216:LYS:HB2	41:QH:216:LYS:HE2	1.32	0.41
41:QH:350:LYS:HE2	41:QH:350:LYS:HB2	1.41	0.41
42:QI:16:ILE:HA	42:QI:228:ASN:OD1	2.20	0.41
42:QI:89:PRO:HG2	42:RI:280:LYS:HG2	2.02	0.41
42:QI:199:ASP:OD1	42:QI:199:ASP:N	2.54	0.41
41:QJ:253:LEU:O	41:QJ:257:MET:HB2	2.20	0.41
41:QJ:268:PRO:HD2	41:QJ:301:ALA:HB2	2.02	0.41
41:QJ:348:ASN:N	42:QK:181:VAL:HG11	2.36	0.41
41:QJ:426:GLN:O	41:QJ:427:ASP:C	2.59	0.41
42:QK:49:PHE:HD2	42:QK:53:PHE:HB2	1.85	0.41
42:QK:256:GLN:H	42:QK:256:GLN:HG2	1.60	0.41
42:QK:332:ILE:CG2	41:QL:175:VAL:HG23	2.51	0.41
41:QL:10:GLY:N	41:QL:66:VAL:O	2.53	0.41
41:QL:238:THR:O	41:QL:241:ARG:N	2.39	0.41
41:QL:284:LEU:HD23	41:QL:362:LYS:HG3	2.02	0.41
41:RB:28:HIS:CE1	41:RB:47:ILE:HA	2.56	0.41
41:RB:215:LEU:HB3	41:RB:217:LEU:HG	2.01	0.41
41:RB:248:ALA:HB2	41:RB:350:LYS:NZ	2.36	0.41
42:RC:158:SER:HG	42:RC:197:HIS:CD2	2.39	0.41
42:RC:274:PRO:HG3	42:RC:374:ALA:HA	2.01	0.41
42:RC:349:THR:HB	41:RD:179:VAL:HA	2.02	0.41
42:RC:425:MET:HE3	42:RC:428:LEU:HB3	2.03	0.41
41:RD:285:THR:O	41:RD:286:VAL:C	2.58	0.41
41:RD:293:MET:HE3	41:RD:293:MET:HB2	1.77	0.41
41:RD:417:ASP:O	41:RD:420:SER:N	2.54	0.41
42:RE:211:ASP:HA	42:RE:214:ARG:HH21	1.86	0.41
42:RE:337:THR:HA	42:RE:339:ARG:HH22	1.86	0.41
41:RF:66:VAL:HG13	41:RF:91:VAL:HG13	2.02	0.41
41:RF:112:LEU:O	41:RF:114:ASP:N	2.54	0.41
41:RF:190:HIS:O	41:RF:193:VAL:HG12	2.21	0.41
41:RF:326:VAL:O	41:RF:327:ASP:C	2.59	0.41
41:RF:424:GLN:H	41:RF:424:GLN:HG2	1.61	0.41
42:RG:12:ALA:O	42:RG:16:ILE:N	2.34	0.41
42:RG:70:LEU:HG	42:RG:98:ASP:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:RG:427:ALA:O	42:RG:431:ASP:N	2.53	0.41
41:RH:7:LEU:HD22	41:RH:64:VAL:HG22	2.03	0.41
41:RH:127:CYS:SG	41:RH:129:CYS:N	2.93	0.41
41:RH:377:LEU:HD22	41:RH:378:PHE:CE1	2.55	0.41
41:RH:403:MET:HG2	41:RH:404:ASP:H	1.86	0.41
42:RI:88:HIS:CD2	42:SI:283:HIS:HB2	2.55	0.41
42:RI:191:THR:O	42:RI:195:LEU:HD23	2.21	0.41
42:RI:206:ASN:HD21	45:RI:501:GTP:C2'	2.34	0.41
42:RI:242:LEU:HA	42:RI:242:LEU:HD12	1.86	0.41
42:RI:247:ALA:HB3	42:RI:355:ILE:HB	2.01	0.41
41:RJ:18:ALA:O	41:RJ:19:LYS:C	2.58	0.41
41:RJ:77:ARG:HE	41:RJ:77:ARG:HB3	1.47	0.41
41:RJ:262:ARG:HH21	41:RJ:421:GLU:HB2	1.86	0.41
41:RJ:354:CYS:SG	41:RJ:355:ASP:N	2.94	0.41
42:RK:91:GLN:O	42:RK:121:ARG:NH2	2.54	0.41
41:RL:8:GLN:OE1	41:RL:17:GLY:HA3	2.21	0.41
41:RL:291:GLN:OE1	41:RL:292:GLN:NE2	2.54	0.41
41:RL:358:PRO:HG2	41:RL:361:LEU:HD12	2.03	0.41
42:SC:280:LYS:HE2	42:SC:280:LYS:HB2	1.74	0.41
42:SC:321:GLY:N	42:SC:357:TYR:O	2.39	0.41
42:SC:395:PHE:CB	42:SC:422:ARG:HH22	2.34	0.41
41:SD:28:HIS:CD2	41:SD:47:ILE:HG13	2.56	0.41
41:SD:284:LEU:HD23	41:SD:284:LEU:HA	1.85	0.41
42:SE:25:CYS:C	42:SE:27:GLU:H	2.25	0.41
42:SE:412:GLY:O	42:SE:413:MET:C	2.58	0.41
41:SF:110:ALA:O	41:SF:111:GLU:C	2.60	0.41
41:SF:237:THR:O	41:SF:238:THR:C	2.59	0.41
41:SF:363:MET:HE3	41:SF:363:MET:HB3	1.90	0.41
42:SG:377:MET:HE1	42:SG:379:SER:HB3	2.03	0.41
41:SH:28:HIS:NE2	41:SH:241:ARG:HD2	2.36	0.41
41:SH:327:ASP:O	41:SH:331:LEU:N	2.50	0.41
42:SI:203:MET:HE2	42:SI:384:ILE:HD11	2.03	0.41
42:SI:220:GLU:HB3	42:SI:221:ARG:H	1.58	0.41
42:SI:352:LYS:HE3	42:SI:352:LYS:HB2	1.93	0.41
42:SK:104:ALA:HB1	42:SK:411:GLU:O	2.20	0.41
42:SK:428:LEU:O	42:SK:432:TYR:N	2.45	0.41
41:SL:73:MET:HE3	41:SL:92:PHE:HB2	2.02	0.41
41:SL:89:ASN:HD21	41:SL:122:LYS:HE2	1.86	0.41
41:SL:97:ALA:HA	41:SL:103:LYS:HD3	2.02	0.41
41:SL:127:CYS:HB2	41:SL:130:LEU:HD23	2.02	0.41
42:TC:191:THR:HG21	42:TC:425:MET:SD	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:TD:257:MET:SD	41:TD:314:ALA:HB2	2.61	0.41
42:TE:36:MET:HA	42:TE:37:PRO:HD3	1.89	0.41
42:TE:316:CYS:HB3	42:TE:378:LEU:HB2	2.02	0.41
41:TF:256:ASN:OD1	41:TF:350:LYS:NZ	2.34	0.41
42:TG:151:SER:O	42:TG:155:GLU:HG2	2.21	0.41
41:TH:14:ASN:O	41:TH:18:ALA:N	2.44	0.41
41:TH:63:ALA:O	41:TH:89:ASN:ND2	2.54	0.41
41:TH:267:MET:N	41:TH:369:GLY:O	2.54	0.41
41:TH:335:ASN:HB2	41:TH:336:LYS:HD2	2.03	0.41
42:TI:88:HIS:HB3	42:TI:283:HIS:ND1	2.34	0.41
42:TI:133:GLN:H	42:TI:133:GLN:HG2	1.47	0.41
42:TI:137:ILE:H	42:TI:137:ILE:HG12	1.42	0.41
42:TI:190:THR:O	42:TI:191:THR:C	2.59	0.41
42:TI:195:LEU:HD21	42:TI:428:LEU:HD13	2.02	0.41
42:TI:337:THR:OG1	42:TI:338:LYS:N	2.54	0.41
41:TJ:252:LYS:HB3	41:TJ:350:LYS:HZ2	1.85	0.41
42:TK:271:THR:HG23	42:TK:377:MET:HB3	2.02	0.41
42:TK:428:LEU:HD23	42:TK:428:LEU:HA	1.86	0.41
42:TM:240:ALA:O	42:TM:356:ASN:ND2	2.54	0.41
42:UC:5:ILE:HG13	42:UC:132:LEU:HD13	2.03	0.41
42:UC:319:TYR:HD2	42:UC:323:VAL:HG11	1.85	0.41
41:UD:95:SER:OG	41:UD:96:GLY:N	2.53	0.41
41:UD:122:LYS:HE3	41:VD:291:GLN:OE1	2.21	0.41
42:UE:88:HIS:HB2	42:UE:91:GLN:H	1.85	0.41
41:UH:55:THR:HG23	41:VH:283:ALA:HA	2.02	0.41
41:UH:173:PRO:HA	41:UH:380:ARG:HD3	2.01	0.41
42:UI:216:ASN:HD21	42:UI:275:VAL:HG23	1.85	0.41
41:UJ:318:ARG:N	41:UJ:364:SER:O	2.53	0.41
42:UK:98:ASP:O	42:UK:110:ILE:HG21	2.21	0.41
41:UL:161:ASP:O	41:UL:251:ARG:NH2	2.54	0.41
41:UL:295:ASP:OD1	41:UL:296:ALA:N	2.54	0.41
42:UM:103:TYR:H	42:UM:408:TYR:HE1	1.69	0.41
42:UM:105:ARG:HA	42:UM:411:GLU:HG2	2.03	0.41
42:VE:220:GLU:OE1	42:VE:220:GLU:N	2.45	0.41
42:VE:273:ALA:HB2	42:VE:295:CYS:SG	2.61	0.41
42:VE:319:TYR:HB2	42:VE:355:ILE:HD13	2.02	0.41
42:VG:251:ASP:OD1	42:VG:252:LEU:N	2.46	0.41
41:VL:204:ASN:OD1	43:VL:501:GDP:O2'	2.39	0.41
42:VM:128:GLN:O	42:VM:128:GLN:HG2	2.21	0.41
42:VM:238:ILE:HA	42:VM:318:LEU:HD22	2.03	0.41
42:WC:189:LEU:HD13	42:WC:408:TYR:CZ	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:WD:104:GLY:HA2	41:WD:109:GLY:HA3	2.02	0.41
42:WE:219:ILE:H	42:WE:219:ILE:HG13	1.76	0.41
42:WE:273:ALA:HB3	42:WE:375:VAL:H	1.86	0.41
41:WF:91:VAL:HG21	41:WF:116:VAL:HA	2.02	0.41
41:WF:210:ILE:HG23	41:WF:214:THR:HB	2.03	0.41
42:WG:10:GLY:HA2	42:WG:145:THR:HG23	2.02	0.41
42:WG:25:CYS:HA	42:WG:30:ILE:HB	2.02	0.41
41:WH:113:VAL:HA	41:WH:116:VAL:HG12	2.03	0.41
42:WI:31:GLN:H	42:WI:31:GLN:HG3	1.76	0.41
42:WI:104:ALA:HA	42:WI:108:TYR:CD1	2.54	0.41
41:WJ:203:ASP:OD1	41:WJ:204:ASN:N	2.54	0.41
41:WJ:271:ALA:HB3	41:WJ:272:PRO:HD3	2.03	0.41
41:WJ:284:LEU:HA	41:WJ:288:GLU:OE2	2.21	0.41
42:WK:316:CYS:HB3	42:WK:378:LEU:HB2	2.02	0.41
41:WL:372:THR:HA	41:WL:422:TYR:HD2	1.86	0.41
42:WM:138:PHE:HZ	42:WM:235:VAL:HG21	1.84	0.41
42:WM:188:ILE:HD12	42:WM:425:MET:HG3	2.03	0.41
41:WN:7:LEU:N	41:WN:134:GLN:O	2.49	0.41
3:1H:485:TYR:OH	42:SK:59:GLY:HA3	2.20	0.41
7:1U:83:ASP:HB3	42:MK:282:TYR:HE1	1.85	0.41
10:2F:75:ARG:NH2	42:AC:298:PRO:HG3	2.35	0.41
11:2J:225:ARG:CZ	39:7K:45:TYR:HE1	2.34	0.41
19:3L:97:LEU:N	19:3L:124:TYR:O	2.54	0.41
21:3S:130:ASP:N	21:3S:130:ASP:OD2	2.54	0.41
22:3Z:202:GLN:HA	22:3Z:205:GLN:HG3	2.02	0.41
24:4G:268:ARG:NH1	24:4G:272:GLU:OE2	2.52	0.41
32:5M:21:LYS:HE2	32:5M:21:LYS:HB2	1.87	0.41
32:5M:336:ARG:NH1	32:5N:55:SER:OG	2.53	0.41
33:5S:201:LEU:HD11	33:5T:308:LEU:HD11	2.02	0.41
33:5T:363:LEU:HD12	33:5T:363:LEU:HA	1.81	0.41
33:5W:399:VAL:HG22	34:6L:349:ASN:OD1	2.21	0.41
34:6A:198:CYS:HG	34:6A:473:CYS:HG	1.69	0.41
34:6A:326:GLN:HA	34:6A:329:LEU:HD12	2.02	0.41
34:6C:287:VAL:HA	34:6C:290:VAL:HG12	2.02	0.41
34:6I:68:TYR:O	34:6I:71:ARG:HB3	2.21	0.41
34:6K:52:PRO:HB2	34:6K:56:TYR:CZ	2.56	0.41
37:7C:137:PRO:HB2	37:7C:138:GLY:H	1.72	0.41
37:7D:77:LEU:HB3	37:7D:78:ARG:H	1.38	0.41
40:7N:441:ASN:O	40:7N:443:SER:N	2.52	0.41
41:AB:73:MET:SD	41:AB:90:PHE:HD1	2.43	0.41
41:AD:21:TRP:CE3	41:AD:24:ILE:HG21	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:AE:144:GLY:N	45:AE:501:GTP:O3G	2.40	0.41
42:AE:188:ILE:HD12	42:AE:188:ILE:HA	1.95	0.41
41:AF:429:THR:OG1	41:AF:435:GLU:OE2	2.39	0.41
42:AG:98:ASP:OD1	42:AG:98:ASP:N	2.52	0.41
41:AH:33:THR:OG1	41:AH:34:GLY:N	2.54	0.41
41:AH:257:MET:HA	41:AH:312:THR:HG21	2.03	0.41
41:AH:304:ASP:O	41:AH:307:HIS:HB2	2.21	0.41
42:AI:217:LEU:HA	42:AI:217:LEU:HD12	1.81	0.41
42:AI:242:LEU:HD11	42:AI:252:LEU:HD13	2.02	0.41
42:AI:306:ASP:HB3	42:AI:309:HIS:CD2	2.56	0.41
42:AK:14:VAL:HG13	42:AK:67:PHE:CD2	2.56	0.41
42:AK:88:HIS:HD2	42:AK:90:GLU:HB2	1.85	0.41
41:BD:13:GLY:HA2	41:BD:136:THR:HG22	2.03	0.41
41:BD:64:VAL:HB	41:BD:119:VAL:CG1	2.51	0.41
41:BF:392:LYS:CG	41:BF:395:LEU:HD12	2.51	0.41
42:BG:138:PHE:HE1	42:BG:235:VAL:HG21	1.86	0.41
41:BH:169:VAL:HG12	41:BH:202:ILE:HD11	2.02	0.41
41:BH:217:LEU:HB2	41:BH:220:PRO:HG3	2.02	0.41
41:BH:324:LYS:HG2	41:BH:328:GLU:OE2	2.21	0.41
42:BK:70:LEU:HB2	42:BK:98:ASP:HA	2.03	0.41
42:CC:223:THR:OG1	42:CC:224:TYR:N	2.51	0.41
41:CD:193:VAL:CG1	41:CD:418:LEU:HD11	2.51	0.41
42:CE:209:ILE:HG21	42:CE:227:LEU:HD13	2.03	0.41
41:CF:7:LEU:HB2	41:CF:135:LEU:HG	2.04	0.41
42:CG:88:HIS:HD2	42:CG:90:GLU:N	2.14	0.41
41:CH:184:ASN:OD1	41:CH:398:TYR:OH	2.35	0.41
42:CI:255:PHE:O	42:CI:259:LEU:HD13	2.21	0.41
42:CK:102:ASN:ND2	42:CK:104:ALA:HB3	2.36	0.41
42:CK:399:TYR:OH	42:CK:402:ARG:NH2	2.53	0.41
41:DB:337:ASN:O	41:DB:337:ASN:ND2	2.31	0.41
42:DC:145:THR:N	45:DC:501:GTP:O3B	2.39	0.41
42:DC:200:CYS:HA	42:DC:266:HIS:HB2	2.03	0.41
42:DC:240:ALA:HB3	42:DC:356:ASN:HD21	1.85	0.41
42:DC:257:THR:HA	41:DD:397:TRP:CH2	2.56	0.41
42:DE:168:GLU:O	42:DE:201:ALA:HA	2.21	0.41
41:DH:222:TYR:OH	43:DH:501:GDP:O2'	2.37	0.41
42:DI:157:LEU:HD23	42:DI:157:LEU:HA	1.94	0.41
41:DJ:58:LYS:N	41:EJ:282:ARG:H	2.18	0.41
41:DJ:103:LYS:HB3	41:DJ:103:LYS:HE3	1.54	0.41
41:DJ:386:THR:OG1	41:DJ:387:ALA:N	2.54	0.41
42:DK:110:ILE:C	42:DK:112:LYS:N	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DK:268:PRO:HA	42:DK:380:ASN:HA	2.03	0.41
41:DL:163:ILE:HD11	41:DL:251:ARG:HE	1.86	0.41
42:DM:196:GLU:OE2	42:DM:197:HIS:NE2	2.55	0.41
41:ED:245:GLN:O	42:EE:11:GLN:NE2	2.54	0.41
42:EE:304:LYS:HD2	42:EE:304:LYS:HA	1.71	0.41
42:EE:313:MET:HA	42:EE:344:VAL:CG1	2.51	0.41
41:EF:167:PHE:CE1	41:EF:233:MET:HG2	2.55	0.41
42:EG:51:THR:HG21	42:EG:243:ARG:CD	2.50	0.41
42:EG:306:ASP:HB3	42:EG:309:HIS:CD2	2.56	0.41
42:EG:313:MET:HE1	42:EG:435:VAL:HG11	2.03	0.41
42:EG:328:VAL:HG21	42:EG:355:ILE:HD11	2.03	0.41
42:EK:219:ILE:O	42:EK:221:ARG:N	2.54	0.41
42:EK:255:PHE:CE1	42:EK:318:LEU:HD21	2.56	0.41
41:EL:36:TYR:OH	41:EL:43:GLN:HB2	2.21	0.41
42:EM:308:ARG:CZ	42:EM:308:ARG:HB2	2.50	0.41
42:FC:208:ALA:O	42:FC:211:ASP:N	2.46	0.41
42:FE:287:SER:O	42:FE:291:ILE:HG12	2.21	0.41
42:FE:298:PRO:HB3	42:FE:306:ASP:OD1	2.20	0.41
41:FF:109:GLY:O	41:FF:113:VAL:HG13	2.20	0.41
42:FI:68:VAL:HG22	42:FI:93:ILE:HG23	2.03	0.41
41:FJ:170:VAL:HG21	41:FJ:377:LEU:HD21	2.03	0.41
42:FK:60:LYS:HE2	42:GK:283:HIS:HD2	1.86	0.41
41:FL:273:LEU:HD12	41:FL:273:LEU:HA	1.82	0.41
41:FL:286:VAL:N	41:FL:287:PRO:HD2	2.36	0.41
41:FL:374:ILE:O	41:FL:375:GLN:C	2.59	0.41
41:FL:377:LEU:HD12	41:FL:380:ARG:HD3	2.03	0.41
42:GC:210:TYR:O	42:GC:214:ARG:HG2	2.21	0.41
41:GD:332:ASN:O	41:GD:336:LYS:HG2	2.20	0.41
41:GH:291:GLN:HE22	41:GH:317:PHE:HZ	1.69	0.41
41:GJ:171:PRO:HB2	41:GJ:381:ILE:HD11	2.03	0.41
41:GL:149:THR:HA	41:GL:152:ILE:HG12	2.03	0.41
41:GL:323:MET:HA	41:GL:326:VAL:HB	2.03	0.41
42:HC:213:CYS:HA	42:HC:217:LEU:HB2	2.01	0.41
42:HC:349:THR:OG1	42:HC:350:GLY:N	2.54	0.41
41:HD:310:TYR:CE1	41:HD:371:SER:HB2	2.56	0.41
42:HG:88:HIS:HB3	42:HG:91:GLN:HG2	2.03	0.41
42:HG:252:LEU:HD23	42:HG:255:PHE:HE2	1.85	0.41
41:HH:2:ARG:HB3	41:HH:131:GLN:HB2	2.01	0.41
42:HI:224:TYR:HD1	42:HI:227:LEU:HD12	1.86	0.41
42:HM:328:VAL:HG13	42:HM:353:VAL:HG11	2.02	0.41
42:IC:132:LEU:O	42:IC:164:LYS:NZ	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:IF:186:THR:HG23	41:IF:415:MET:HE3	2.03	0.41
41:IF:270:PHE:CE1	41:IF:272:PRO:HD2	2.56	0.41
41:IJ:230:SER:HA	41:IJ:233:MET:HB2	2.02	0.41
41:IL:3:GLU:HG3	41:IL:62:ARG:HH12	1.86	0.41
42:JC:119:LEU:O	42:JC:123:ARG:HG2	2.21	0.41
42:JG:67:PHE:HB2	42:JG:92:LEU:HD22	2.03	0.41
42:JG:195:LEU:O	42:JG:266:HIS:NE2	2.54	0.41
41:JJ:375:GLN:HG3	41:JJ:419:VAL:HG13	2.03	0.41
41:JJ:414:ASN:HA	41:JJ:417:ASP:HB2	2.03	0.41
42:JK:252:LEU:HD23	42:JK:252:LEU:HA	1.92	0.41
42:KE:241:SER:HB2	42:KE:250:VAL:H	1.86	0.41
42:KE:306:ASP:HA	42:KE:307:PRO:HD3	1.97	0.41
41:KL:4:ILE:HG22	41:KL:131:GLN:HB3	2.02	0.41
41:KL:47:ILE:HG22	41:KL:51:TYR:HB2	2.02	0.41
41:KL:131:GLN:O	41:KL:251:ARG:NH1	2.53	0.41
41:LL:121:ARG:NH1	41:LL:158:GLU:OE1	2.54	0.41
42:LM:15:GLN:O	42:LM:228:ASN:ND2	2.54	0.41
42:LM:423:GLU:HA	42:LM:426:ALA:HB3	2.03	0.41
42:MC:115:ILE:HG12	42:MC:152:LEU:HG	2.03	0.41
42:MC:139:HIS:HE1	42:MC:141:PHE:HE2	1.69	0.41
41:MD:344:TRP:CE3	41:MD:345:ILE:HG12	2.56	0.41
42:ME:107:HIS:ND1	42:ME:151:SER:OG	2.50	0.41
42:ME:211:ASP:HA	42:ME:214:ARG:HG2	2.03	0.41
42:MI:195:LEU:HD11	42:MI:428:LEU:HD21	2.02	0.41
42:MK:90:GLU:HB2	42:MK:121:ARG:HH11	1.86	0.41
41:MN:5:VAL:HG23	41:MN:130:LEU:HD11	2.02	0.41
41:MN:137:HIS:HE1	41:MN:166:THR:HB	1.85	0.41
41:MN:142:GLY:O	41:MN:143:THR:C	2.59	0.41
42:NA:3:GLU:HG2	42:NA:64:ARG:CZ	2.51	0.41
41:ND:68:LEU:HD12	41:ND:97:ALA:HB2	2.01	0.41
41:ND:285:THR:OG1	41:ND:288:GLU:HB3	2.21	0.41
42:NE:385:ALA:HA	42:NE:388:TRP:HD1	1.85	0.41
41:NF:267:MET:HB3	41:NF:301:ALA:HB3	2.02	0.41
41:NH:325:GLU:H	41:NH:325:GLU:HG2	1.69	0.41
42:NI:225:THR:OG1	42:NI:226:ASN:N	2.54	0.41
41:NJ:113:VAL:HG11	41:NJ:150:LEU:HD23	2.03	0.41
41:OB:382:SER:O	41:OB:386:THR:HG23	2.21	0.41
42:OE:169:PHE:HD1	42:OE:202:PHE:HB2	1.85	0.41
42:OE:248:LEU:HD21	42:OE:353:VAL:HG23	2.03	0.41
41:OF:113:VAL:HA	41:OF:116:VAL:HG12	2.02	0.41
41:OF:257:MET:HE3	41:OF:368:ILE:HG22	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:OG:183:GLU:O	42:OG:184:PRO:C	2.59	0.41
41:OH:401:GLU:H	41:OH:401:GLU:HG2	1.69	0.41
42:OI:125:LEU:HD12	42:OI:128:GLN:HE21	1.85	0.41
42:OK:76:ASP:OD1	42:OK:79:ARG:NH1	2.54	0.41
42:OK:186:ASN:OD1	42:OK:408:TYR:OH	2.38	0.41
41:OL:139:LEU:HD23	41:OL:139:LEU:HA	1.91	0.41
41:PB:276:ARG:HD2	41:PB:276:ARG:HA	1.61	0.41
41:PB:287:PRO:HD3	41:PB:325:GLU:HG2	2.03	0.41
41:PB:299:MET:H	41:PB:299:MET:HG2	1.69	0.41
41:PB:311:LEU:HD13	41:PB:342:VAL:HG21	2.03	0.41
41:PB:343:GLU:HB3	41:PB:344:TRP:H	1.72	0.41
42:PC:276:ILE:HD12	42:PC:276:ILE:HA	1.92	0.41
41:PD:389:PHE:HE2	41:PD:395:LEU:HD11	1.86	0.41
42:PE:118:VAL:HG11	42:PE:149:PHE:CZ	2.51	0.41
41:PF:2:ARG:HE	41:PF:2:ARG:HB2	1.40	0.41
41:PF:215:LEU:HD21	41:PF:273:LEU:HD22	2.03	0.41
41:PF:427:ASP:O	41:PF:428:ALA:C	2.59	0.41
42:PG:10:GLY:O	42:PG:14:VAL:HG23	2.21	0.41
42:PG:11:GLN:HA	42:PG:74:VAL:HG21	2.03	0.41
42:PG:281:ALA:O	42:PG:282:TYR:C	2.59	0.41
41:PH:64:VAL:HG11	41:PH:116:VAL:HG23	2.03	0.41
41:PH:105:HIS:HA	41:PH:150:LEU:HG	2.03	0.41
41:PJ:192:LEU:O	41:PJ:194:GLU:N	2.52	0.41
41:PL:285:THR:O	41:PL:286:VAL:C	2.60	0.41
41:PL:334:GLN:HA	41:PL:341:PHE:HE2	1.85	0.41
41:QD:173:PRO:O	41:QD:175:VAL:N	2.53	0.41
41:QD:311:LEU:HD21	41:QD:344:TRP:HE1	1.85	0.41
42:QE:137:ILE:O	42:QE:168:GLU:HA	2.21	0.41
41:QF:318:ARG:NH2	41:QF:357:PRO:O	2.54	0.41
41:QF:398:TYR:HB3	41:QF:408:PHE:HZ	1.85	0.41
41:QH:31:ASP:HB3	41:QH:35:THR:O	2.21	0.41
42:QI:9:VAL:HG13	42:QI:139:HIS:HA	2.03	0.41
42:QI:12:ALA:O	42:QI:16:ILE:HG13	2.21	0.41
42:QI:139:HIS:HB3	42:QI:150:THR:HG21	2.02	0.41
42:QI:292:THR:O	42:QI:293:ASN:C	2.60	0.41
42:QI:363:VAL:O	42:QI:364:PRO:C	2.59	0.41
41:QJ:77:ARG:H	41:QJ:77:ARG:HG2	1.76	0.41
41:QJ:239:CYS:SG	41:QJ:240:LEU:N	2.94	0.41
41:QJ:338:SER:O	41:QJ:341:PHE:N	2.41	0.41
42:QK:327:ASP:O	42:QK:328:VAL:C	2.59	0.41
42:QK:359:PRO:HB3	42:QK:372:GLN:CA	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:QL:43:GLN:HA	41:QL:242:PHE:HE1	1.85	0.41
41:RB:267:MET:HG2	41:RB:301:ALA:HB3	2.02	0.41
41:RD:22:GLU:HA	41:RD:25:SER:HB2	2.03	0.41
41:RD:46:ARG:HE	41:RD:46:ARG:HB2	1.63	0.41
42:RE:64:ARG:HG3	42:RE:125:LEU:HD11	2.02	0.41
42:RE:326:LYS:HG2	41:RF:220:PRO:HD2	2.03	0.41
41:RF:18:ALA:O	41:RF:20:PHE:N	2.52	0.41
41:RF:78:SER:O	41:RF:79:GLY:C	2.59	0.41
41:RF:362:LYS:HE2	41:RF:363:MET:HB2	2.02	0.41
42:RG:122:ILE:HG21	42:RG:157:LEU:HD11	2.03	0.41
42:RI:102:ASN:ND2	42:RI:411:GLU:OE2	2.51	0.41
42:RK:255:PHE:CZ	42:RK:318:LEU:HD21	2.56	0.41
42:SC:49:PHE:O	42:SC:53:PHE:N	2.36	0.41
42:SC:51:THR:HG21	42:SC:243:ARG:HG2	2.03	0.41
42:SC:62:VAL:HG21	42:SC:88:HIS:CD2	2.56	0.41
41:SD:52:ASN:OD1	41:SD:62:ARG:NH2	2.53	0.41
42:SE:88:HIS:HB2	42:SE:91:GLN:HG3	2.02	0.41
42:SE:188:ILE:H	42:SE:188:ILE:HG12	1.76	0.41
41:SF:172:SER:O	41:SF:173:PRO:C	2.59	0.41
42:SK:26:LEU:HD23	42:SK:26:LEU:HA	1.88	0.41
42:SK:139:HIS:ND1	42:SK:150:THR:HG21	2.36	0.41
42:SK:313:MET:HE3	42:SK:346:TRP:CZ2	2.56	0.41
42:SK:320:ARG:HH21	42:SK:361:THR:H	1.69	0.41
41:SL:16:ILE:HG12	41:SL:226:ASN:ND2	2.35	0.41
42:SM:66:VAL:O	42:SM:68:VAL:HG23	2.21	0.41
42:SM:270:ALA:N	42:SM:301:GLN:HE22	2.18	0.41
42:TC:76:ASP:O	42:TC:80:THR:OG1	2.29	0.41
42:TC:102:ASN:ND2	42:TC:411:GLU:OE2	2.54	0.41
42:TC:138:PHE:HZ	42:TC:235:VAL:HG21	1.85	0.41
42:TC:334:THR:O	42:TC:338:LYS:HG2	2.21	0.41
41:TD:136:THR:HA	41:TD:167:PHE:O	2.21	0.41
42:TE:186:ASN:O	42:TE:190:THR:HG22	2.21	0.41
42:TE:394:LYS:O	42:TE:398:MET:HG3	2.21	0.41
41:TF:350:LYS:NZ	42:TG:181:VAL:HG12	2.36	0.41
42:TG:156:ARG:HA	42:TG:156:ARG:HD2	1.93	0.41
41:TL:293:MET:HE1	41:TL:317:PHE:CZ	2.56	0.41
42:TM:395:PHE:CE1	42:TM:399:TYR:HB2	2.55	0.41
42:UC:77:GLU:O	42:UC:81:GLY:N	2.54	0.41
42:UC:175:PRO:HG3	42:UC:304:LYS:HD3	2.03	0.41
42:UC:176:GLN:HE21	42:UC:176:GLN:HB2	1.62	0.41
42:UC:260:VAL:HG11	42:UC:266:HIS:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:UD:151:LEU:O	41:UD:155:ILE:HG12	2.21	0.41
42:UG:56:THR:O	42:VG:285:GLN:NE2	2.53	0.41
42:UG:59:GLY:O	42:UG:60:LYS:C	2.60	0.41
42:UG:254:GLU:O	42:UG:258:ASN:ND2	2.54	0.41
41:UL:273:LEU:HD23	41:UL:273:LEU:HA	1.88	0.41
41:UL:318:ARG:HE	41:UL:358:PRO:N	2.19	0.41
41:UL:325:GLU:H	41:UL:325:GLU:HG2	1.55	0.41
42:UM:215:ARG:NH1	42:UM:299:ALA:HB1	2.36	0.41
42:UM:246:GLY:HA2	42:UM:357:TYR:CD1	2.56	0.41
42:UM:319:TYR:CE1	42:UM:375:VAL:HG22	2.56	0.41
41:VD:102:ALA:HB2	41:VD:403:MET:SD	2.60	0.41
42:VM:345:ASP:OD1	42:VM:345:ASP:N	2.54	0.41
41:WD:105:HIS:HA	41:WD:150:LEU:HD22	2.02	0.41
41:WD:139:LEU:HD23	41:WD:139:LEU:HA	1.90	0.41
41:WD:139:LEU:HG	41:WD:168:SER:HB2	2.03	0.41
41:WD:213:ARG:HD2	41:WD:297:LYS:HG3	2.02	0.41
42:WE:121:ARG:HD2	42:WE:121:ARG:HA	1.90	0.41
42:WE:352:LYS:HD2	41:WF:177:ASP:O	2.21	0.41
41:WJ:248:ALA:HA	41:WJ:252:LYS:HD3	2.02	0.41
42:WM:209:ILE:HG12	42:WM:302:MET:HE2	2.02	0.41
42:WM:298:PRO:HB3	42:WM:307:PRO:HD2	2.02	0.41
4:1K:141:TYR:CE2	42:JE:80:THR:HA	2.56	0.40
8:1X:115:LYS:NZ	42:AC:264:ARG:NE	2.70	0.40
8:1Y:109:GLN:HE22	42:AE:420:GLU:HG3	1.86	0.40
10:2H:168:PHE:CE2	42:WM:220:GLU:HG2	2.56	0.40
11:2J:84:MET:HE2	42:WG:96:LYS:NZ	2.35	0.40
13:2T:455:ILE:HD12	42:GI:282:TYR:CZ	2.56	0.40
19:3J:285:ARG:HH12	41:DD:277:GLY:H	1.69	0.40
19:3L:467:LEU:HD11	19:3L:499:PHE:HD2	1.84	0.40
20:3N:265:LEU:HD21	20:3N:333:TRP:HE1	1.87	0.40
21:3T:241:GLU:HA	21:3T:244:ILE:HG22	2.02	0.40
21:3U:217:LEU:HD12	21:3U:217:LEU:HA	1.86	0.40
22:3X:253:ARG:HD2	22:3X:253:ARG:HA	1.72	0.40
22:4A:30:SER:OG	22:4A:38:MET:SD	2.68	0.40
23:4D:82:TYR:OH	41:TJ:41:ASP:N	2.51	0.40
25:4I:286:TYR:OH	25:4I:303:MET:SD	2.66	0.40
25:4J:24:TYR:CD2	25:4J:37:MET:HE2	2.57	0.40
26:4K:188:ARG:HH21	26:4K:189:GLU:HG3	1.86	0.40
26:4L:162:LYS:NZ	29:4Y:100:THR:O	2.42	0.40
27:4O:194:LEU:HD11	27:4O:229:LEU:HD21	2.04	0.40
27:4Q:168:THR:HA	27:4Q:171:VAL:HG22	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:4R:45:LYS:O	27:4R:46:ALA:HB3	2.20	0.40
31:5E:15:LYS:HD2	31:5E:15:LYS:HA	1.88	0.40
31:5I:104:LEU:HD23	31:5I:104:LEU:HA	1.90	0.40
32:5M:80:LYS:HA	32:5M:80:LYS:HD3	1.79	0.40
32:5N:44:LEU:O	32:5N:48:ILE:HG12	2.21	0.40
32:5N:304:LEU:O	32:5N:306:GLN:N	2.53	0.40
32:5O:100:LYS:HB3	32:5O:100:LYS:HE3	1.62	0.40
32:5O:230:LYS:HA	32:5O:230:LYS:HD3	1.58	0.40
33:5S:18:GLN:H	33:5S:18:GLN:HG2	1.60	0.40
33:5S:64:LEU:HD13	33:5S:64:LEU:HA	1.79	0.40
33:5V:106:LYS:HD3	33:5V:254:LEU:HD22	2.04	0.40
33:5W:289:GLU:OE2	33:5X:35:SER:OG	2.36	0.40
34:6B:358:LYS:HE2	34:6B:358:LYS:HB3	1.50	0.40
34:6C:136:ARG:HH21	34:6D:392:PHE:HZ	1.68	0.40
34:6D:384:LYS:HE2	34:6D:384:LYS:HB3	1.77	0.40
34:6F:427:VAL:HA	34:6F:430:THR:HB	2.03	0.40
34:6G:355:ALA:O	34:6G:359:ASN:ND2	2.50	0.40
34:6H:71:ARG:HD2	34:6H:73:GLN:HG2	2.03	0.40
34:6L:271:CYS:O	34:6M:399:ARG:NE	2.54	0.40
35:6Q:294:ARG:HD2	35:6Q:440:VAL:HG11	2.03	0.40
35:6V:25:LYS:HE3	35:6V:27:TYR:HE1	1.87	0.40
35:6V:394:LYS:HD2	35:6W:81:SER:HB2	2.02	0.40
37:7E:217:GLY:HA3	37:7E:218:PRO:HD3	1.92	0.40
42:AC:138:PHE:HZ	42:AC:235:VAL:HG11	1.85	0.40
42:AC:211:ASP:OD2	42:AC:304:LYS:NZ	2.54	0.40
42:AC:425:MET:HB3	42:AC:425:MET:HE2	1.68	0.40
42:AG:174:ALA:HB3	42:AG:177:VAL:O	2.21	0.40
42:AI:102:ASN:ND2	42:AI:407:TRP:O	2.54	0.40
42:AI:406:HIS:HA	42:AI:409:VAL:HG22	2.03	0.40
41:BD:54:ALA:HB2	41:BD:60:VAL:HG22	2.03	0.40
41:BD:113:VAL:HG21	41:BD:150:LEU:HD23	2.03	0.40
41:BD:323:MET:HG2	41:BD:353:VAL:HG11	2.04	0.40
42:BE:5:ILE:HG12	42:BE:132:LEU:HD11	2.03	0.40
42:BE:118:VAL:HG21	42:BE:149:PHE:CZ	2.52	0.40
41:BH:91:VAL:HG11	41:BH:116:VAL:HG12	2.03	0.40
42:BI:69:ASP:N	42:BI:69:ASP:OD2	2.55	0.40
42:BI:332:ILE:HG23	42:BI:351:PHE:CD2	2.56	0.40
42:BK:306:ASP:HB2	42:BK:309:HIS:CE1	2.56	0.40
41:CF:280:GLN:HE21	41:CF:280:GLN:HB3	1.70	0.40
41:CF:421:GLU:H	41:CF:421:GLU:HG2	1.60	0.40
41:CH:27:GLU:OE2	41:CH:241:ARG:NH1	2.38	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:CH:289:LEU:HD11	41:CH:363:MET:HG3	2.03	0.40
41:CJ:286:VAL:O	41:CJ:287:PRO:C	2.60	0.40
42:CM:306:ASP:HA	42:CM:307:PRO:HD3	1.96	0.40
41:DB:216:LYS:HG2	41:DB:275:SER:OG	2.21	0.40
42:DC:122:ILE:HD13	42:DC:122:ILE:HA	1.95	0.40
42:DC:139:HIS:HB2	42:DC:150:THR:HG21	2.03	0.40
42:DC:253:THR:HA	42:DC:256:GLN:NE2	2.36	0.40
42:DE:271:THR:HG21	42:DE:295:CYS:HA	2.03	0.40
42:DI:229:ARG:HD3	42:DI:363:VAL:HG21	2.03	0.40
41:DJ:176:SER:C	41:DJ:178:THR:H	2.24	0.40
41:DL:253:LEU:HD12	41:DL:253:LEU:HA	1.96	0.40
42:DM:192:HIS:CE1	42:DM:420:GLU:HB3	2.56	0.40
41:ED:20:PHE:C	41:ED:22:GLU:H	2.25	0.40
41:ED:322:SER:O	41:ED:323:MET:C	2.60	0.40
41:ED:413:SER:OG	41:ED:414:ASN:N	2.54	0.40
41:EH:103:LYS:HB3	41:EH:103:LYS:HE2	1.82	0.40
42:EK:132:LEU:HD12	42:EK:132:LEU:HA	1.82	0.40
42:EK:259:LEU:O	42:EK:261:PRO:HD3	2.20	0.40
42:FC:126:ALA:HA	42:FC:132:LEU:HD21	2.02	0.40
42:FC:383:ALA:O	42:FC:384:ILE:C	2.59	0.40
41:FD:404:ASP:O	41:FD:405:GLU:C	2.59	0.40
42:FE:16:ILE:HA	42:FE:228:ASN:HB3	2.04	0.40
42:FE:30:ILE:HG13	42:FE:53:PHE:CZ	2.56	0.40
42:FE:172:TYR:OH	42:FE:387:ALA:O	2.40	0.40
42:FE:422:ARG:HA	42:FE:422:ARG:HD2	1.76	0.40
41:FF:167:PHE:HA	41:FF:200:TYR:HB2	2.03	0.40
41:FF:246:LEU:HD23	41:FF:246:LEU:HA	1.90	0.40
41:FF:312:THR:HG21	42:FG:404:PHE:CZ	2.55	0.40
41:FH:319:GLY:N	41:FH:354:CYS:O	2.39	0.40
42:FI:173:PRO:HG2	42:FI:391:LEU:HD21	2.02	0.40
41:FJ:167:PHE:CE2	41:FJ:233:MET:HG2	2.56	0.40
42:FK:11:GLN:HA	42:FK:14:VAL:HG22	2.02	0.40
42:FK:344:VAL:HG22	42:FK:346:TRP:H	1.86	0.40
41:FL:30:ILE:HD12	41:FL:59:TYR:CD2	2.55	0.40
41:GD:163:ILE:H	41:GD:163:ILE:HG12	1.68	0.40
42:GG:105:ARG:HE	42:GG:105:ARG:HB3	1.79	0.40
42:GG:269:LEU:HD21	42:GG:305:CYS:SG	2.61	0.40
42:GG:401:LYS:HE2	42:GG:401:LYS:HB2	1.82	0.40
42:GI:139:HIS:HE1	42:GI:168:GLU:HG3	1.85	0.40
42:GI:439:SER:HB3	41:GJ:391:ARG:HD3	2.02	0.40
41:GJ:346:PRO:CG	42:GK:394:LYS:HD2	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:GM:30:ILE:H	42:GM:30:ILE:HG12	1.56	0.40
42:GM:326:LYS:HD3	42:GM:326:LYS:HA	1.43	0.40
42:GM:391:LEU:HD23	42:GM:391:LEU:HA	1.76	0.40
41:HB:293:MET:HA	41:HB:298:ASN:HD21	1.86	0.40
42:HC:175:PRO:HB2	42:HC:176:GLN:H	1.70	0.40
41:HD:3:GLU:HG3	41:HD:48:ASN:HD22	1.85	0.40
41:HD:45:GLU:HB3	41:HD:46:ARG:H	1.68	0.40
41:HD:55:THR:OG1	41:HD:56:GLY:N	2.55	0.40
41:HD:77:ARG:HE	41:HD:77:ARG:HB2	1.46	0.40
41:HD:86:ARG:HH12	41:HD:88:ASP:HB2	1.86	0.40
41:HD:103:LYS:HA	41:HD:107:THR:OG1	2.20	0.40
41:HD:158:GLU:O	41:HD:160:PRO:HD3	2.21	0.40
42:HE:225:THR:O	42:HE:229:ARG:HG3	2.21	0.40
41:HF:86:ARG:CZ	41:IF:281:TYR:HB3	2.51	0.40
41:HJ:99:ASN:HD22	41:HJ:184:ASN:ND2	2.20	0.40
41:HJ:344:TRP:CE3	42:HK:401:LYS:HD2	2.56	0.40
41:HJ:367:PHE:CE2	41:HJ:369:GLY:HA3	2.56	0.40
42:HK:132:LEU:H	42:HK:132:LEU:HD23	1.86	0.40
42:HK:306:ASP:OD2	42:HK:308:ARG:NH2	2.54	0.40
42:HM:273:ALA:HB2	42:HM:375:VAL:HG12	2.03	0.40
42:IC:8:HIS:HE1	42:IC:21:TRP:NE1	2.18	0.40
41:ID:113:VAL:HA	41:ID:116:VAL:HG12	2.02	0.40
41:IF:249:ASP:OD1	41:IF:249:ASP:N	2.54	0.40
42:IG:326:LYS:HZ1	41:IH:212:PHE:HZ	1.65	0.40
42:II:107:HIS:HB3	42:II:108:TYR:CD1	2.56	0.40
42:IK:175:PRO:HD3	42:IK:205:ASP:HB3	2.03	0.40
41:IL:20:PHE:HA	41:IL:230:SER:HB3	2.02	0.40
41:IL:148:GLY:O	41:IL:152:ILE:HG12	2.21	0.40
42:IM:180:ALA:HB3	42:IM:183:GLU:HB3	2.02	0.40
42:IM:398:MET:HG2	42:IM:403:ALA:HB3	2.03	0.40
41:IN:313:VAL:HA	41:IN:369:GLY:HA2	2.02	0.40
42:JC:119:LEU:HA	42:JC:122:ILE:HG22	2.03	0.40
41:JD:52:ASN:N	41:JD:60:VAL:O	2.51	0.40
42:JG:199:ASP:HB3	42:JG:256:GLN:HG3	2.03	0.40
42:JI:70:LEU:HD22	42:JI:110:ILE:HG22	2.02	0.40
42:JK:110:ILE:HD12	42:JK:110:ILE:HA	1.96	0.40
42:JK:405:VAL:O	42:JK:408:TYR:N	2.47	0.40
42:JM:422:ARG:HA	42:JM:422:ARG:HD2	1.28	0.40
41:KD:180:VAL:HG22	41:KD:183:TYR:HB2	2.03	0.40
41:KD:252:LYS:HG2	41:KD:350:LYS:HE3	2.03	0.40
42:KE:138:PHE:HZ	42:KE:235:VAL:HG11	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:KI:138:PHE:HZ	42:KI:235:VAL:HG11	1.85	0.40
41:KJ:131:GLN:HE21	41:KJ:250:LEU:HB2	1.87	0.40
41:KN:25:SER:OG	41:KN:51:TYR:OH	2.31	0.40
41:LD:12:CYS:HA	43:LD:501:GDP:N7	2.36	0.40
41:LF:226:ASN:OD1	43:LF:501:GDP:N1	2.40	0.40
41:LH:229:VAL:HG12	41:LH:233:MET:HE2	2.02	0.40
41:LJ:2:ARG:HH12	41:LJ:240:LEU:HA	1.85	0.40
41:MD:26:ASP:O	41:MD:27:GLU:C	2.60	0.40
41:MD:198:GLU:HG3	41:MD:266:PHE:HE2	1.86	0.40
41:MD:320:ARG:O	41:MD:321:MET:C	2.58	0.40
42:ME:97:GLU:HG3	42:ME:110:ILE:HD13	2.04	0.40
42:ME:207:GLU:OE2	42:ME:304:LYS:HG3	2.22	0.40
42:MG:76:ASP:N	42:MG:76:ASP:OD2	2.55	0.40
42:MG:115:ILE:HD12	42:MG:153:LEU:HD23	2.03	0.40
42:MI:30:ILE:HG13	42:MI:36:MET:HG3	2.03	0.40
41:MN:169:VAL:HA	41:MN:202:ILE:O	2.21	0.40
41:MN:213:ARG:HD2	41:MN:297:LYS:HD2	2.03	0.40
41:MN:267:MET:HE2	41:MN:267:MET:HB2	1.72	0.40
41:MN:296:ALA:HA	41:MN:299:MET:HE2	2.04	0.40
42:NA:68:VAL:HG21	42:NA:118:VAL:HG11	2.03	0.40
42:NA:91:GLN:HA	42:NA:121:ARG:HD2	2.04	0.40
41:NB:354:CYS:SG	41:NB:355:ASP:N	2.93	0.40
42:NC:104:ALA:HA	42:NC:108:TYR:CD1	2.52	0.40
42:NE:188:ILE:HD11	42:NE:422:ARG:HA	2.03	0.40
41:NF:10:GLY:HA2	41:NF:143:THR:HB	2.03	0.40
42:NG:274:PRO:HG3	42:NG:373:ARG:O	2.21	0.40
41:NH:253:LEU:HD12	41:NH:253:LEU:HA	1.90	0.40
41:NH:346:PRO:HD2	42:NI:398:MET:SD	2.61	0.40
42:NI:262:TYR:HB3	42:NI:263:PRO:HD2	2.02	0.40
41:NJ:202:ILE:HG22	41:NJ:268:PRO:HG3	2.03	0.40
41:NL:16:ILE:HD11	41:NL:229:VAL:HG11	2.02	0.40
41:NL:54:ALA:HB3	41:NL:58:LYS:HB3	2.02	0.40
41:NL:249:ASP:O	41:NL:253:LEU:N	2.44	0.40
41:OB:98:GLY:O	41:OB:100:ASN:N	2.54	0.40
41:OB:347:ASN:HD21	41:OB:349:VAL:HG23	1.86	0.40
41:OB:399:THR:O	41:OB:400:GLY:C	2.58	0.40
42:OC:250:VAL:HG21	42:OC:318:LEU:CD2	2.52	0.40
42:OG:204:VAL:HG12	42:OG:302:MET:HB2	2.02	0.40
42:OG:414:GLU:O	42:OG:415:GLU:C	2.60	0.40
41:OH:237:THR:O	41:OH:241:ARG:NE	2.54	0.40
42:OI:88:HIS:CE1	42:OI:90:GLU:HB3	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:OJ:323:MET:SD	41:OJ:353:VAL:HG21	2.61	0.40
42:OK:7:VAL:HB	42:OK:137:ILE:HG23	2.03	0.40
42:OK:428:LEU:HD23	42:OK:428:LEU:HA	1.87	0.40
41:OL:151:LEU:HD23	41:OL:155:ILE:HD13	2.03	0.40
41:OL:321:MET:HB2	41:OL:321:MET:HE3	1.90	0.40
42:PA:366:GLY:O	42:PA:367:ASP:C	2.59	0.40
41:PB:31:ASP:O	41:PB:32:PRO:C	2.59	0.40
41:PB:101:TRP:CE2	41:PB:187:LEU:HB3	2.55	0.40
41:PB:298:ASN:O	41:PB:299:MET:C	2.59	0.40
42:PC:394:LYS:HB3	42:PC:394:LYS:HE3	1.73	0.40
41:PD:65:LEU:CB	41:PD:90:PHE:HA	2.50	0.40
41:PD:137:HIS:CE1	41:PD:139:LEU:HB2	2.56	0.40
41:PD:156:ARG:HB2	41:PD:195:ASN:HB3	2.04	0.40
42:PE:183:GLU:O	42:PE:184:PRO:C	2.59	0.40
42:PE:292:THR:O	42:PE:293:ASN:C	2.59	0.40
42:PE:316:CYS:SG	42:PE:378:LEU:HB2	2.61	0.40
42:PE:349:THR:OG1	41:PF:179:VAL:HA	2.21	0.40
41:PF:156:ARG:HA	41:PF:156:ARG:HD2	1.80	0.40
41:PH:124:ALA:HB1	41:PH:130:LEU:HD22	2.02	0.40
41:PH:337:ASN:O	41:PH:338:SER:C	2.58	0.40
41:PJ:200:TYR:CE1	41:PJ:368:ILE:HG21	2.56	0.40
41:PJ:210:ILE:HD12	41:PJ:210:ILE:HA	1.64	0.40
41:PJ:309:ARG:HB2	41:PJ:310:TYR:H	1.59	0.40
41:PJ:403:MET:HE3	41:PJ:403:MET:HB3	1.86	0.40
42:PK:117:LEU:HD12	42:PK:117:LEU:HA	1.84	0.40
42:PK:304:LYS:HD3	42:PK:304:LYS:HA	1.43	0.40
42:PK:391:LEU:HA	42:PK:394:LYS:HD3	2.02	0.40
41:PL:218:THR:O	41:PL:220:PRO:HD3	2.20	0.40
41:PL:260:PHE:HB2	41:PL:263:LEU:HD13	2.04	0.40
41:QD:251:ARG:O	41:QD:254:ALA:N	2.54	0.40
41:QD:260:PHE:HE1	42:QE:403:ALA:HA	1.85	0.40
42:QE:14:VAL:HG21	42:QE:75:ILE:HD11	2.03	0.40
42:QE:138:PHE:HA	42:QE:170:SER:HB2	2.03	0.40
42:QE:167:LEU:HD13	42:QE:200:CYS:HB3	2.03	0.40
42:QE:183:GLU:C	42:QE:185:TYR:H	2.25	0.40
42:QE:230:LEU:HD23	42:QE:230:LEU:HA	1.92	0.40
41:QF:136:THR:O	41:QF:136:THR:OG1	2.35	0.40
42:QG:55:GLU:O	42:RG:285:GLN:HB2	2.21	0.40
42:QI:135:PHE:CD2	42:QI:164:LYS:HG2	2.56	0.40
42:QI:216:ASN:HB3	42:QI:275:VAL:HB	2.02	0.40
42:QI:277:SER:H	42:QI:280:LYS:HD2	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:QJ:65:LEU:H	41:QJ:65:LEU:HG	1.47	0.40
42:QK:273:ALA:HB3	42:QK:274:PRO:HD3	2.03	0.40
42:QK:436:GLY:O	42:QK:437:MET:C	2.59	0.40
41:RB:146:GLY:O	41:RB:149:THR:OG1	2.39	0.40
41:RB:252:LYS:HD3	42:RC:100:ALA:HA	2.02	0.40
41:RB:263:LEU:HB3	41:RB:370:ASN:ND2	2.35	0.40
42:RC:172:TYR:HB3	42:RC:205:ASP:OD1	2.20	0.40
41:RF:24:ILE:HG21	41:RF:50:TYR:CD2	2.56	0.40
41:RF:216:LYS:HB2	41:RF:275:SER:HB2	2.03	0.40
41:RF:260:PHE:C	41:RF:262:ARG:H	2.24	0.40
42:RG:167:LEU:HD11	42:RG:202:PHE:CZ	2.56	0.40
42:RI:202:PHE:CZ	42:RI:378:LEU:HB3	2.56	0.40
42:RI:319:TYR:HB2	42:RI:355:ILE:HD13	2.02	0.40
41:RJ:286:VAL:HG22	41:RJ:363:MET:SD	2.61	0.40
41:RJ:409:THR:O	41:RJ:412:GLU:HG2	2.21	0.40
42:RK:186:ASN:O	42:RK:190:THR:HG23	2.21	0.40
42:RK:234:ILE:HA	42:RK:272:TYR:OH	2.21	0.40
42:SC:174:ALA:HB2	42:SC:206:ASN:HB2	2.03	0.40
42:SE:396:ASP:O	42:SE:397:LEU:C	2.59	0.40
41:SF:20:PHE:O	41:SF:24:ILE:HG22	2.21	0.40
42:SI:23:LEU:O	42:SI:24:TYR:C	2.59	0.40
42:SI:121:ARG:HH2	42:TI:283:HIS:HE1	1.68	0.40
42:SI:413:MET:HE3	42:SI:413:MET:HB3	1.77	0.40
41:SJ:50:TYR:HA	41:SJ:62:ARG:HD2	2.04	0.40
41:SJ:166:THR:HG23	41:SJ:199:THR:HG23	2.03	0.40
41:SL:53:GLU:H	41:SL:53:GLU:HG2	1.55	0.40
41:SL:139:LEU:HA	41:SL:139:LEU:HD23	1.75	0.40
42:SM:88:HIS:HD2	42:SM:89:PRO:HD2	1.85	0.40
42:SM:192:HIS:ND1	42:SM:424:ASP:OD2	2.54	0.40
42:TC:168:GLU:HG3	42:TC:201:ALA:HA	2.02	0.40
41:TD:374:ILE:HD13	41:TD:374:ILE:HA	1.95	0.40
41:TH:8:GLN:HB3	41:TH:14:ASN:HA	2.03	0.40
42:TI:33:ASP:HA	42:TI:85:GLN:HE22	1.86	0.40
42:TI:105:ARG:HE	42:TI:110:ILE:HD12	1.85	0.40
42:TI:119:LEU:HA	42:TI:119:LEU:HD13	1.68	0.40
42:TM:3:GLU:OE2	42:TM:64:ARG:HD3	2.21	0.40
42:TM:292:THR:HG21	42:TM:331:ALA:HB1	2.03	0.40
42:UC:377:MET:SD	42:UC:379:SER:HB3	2.62	0.40
41:UD:52:ASN:HD21	41:UD:62:ARG:HE	1.68	0.40
42:UE:240:ALA:HB1	42:UE:356:ASN:ND2	2.36	0.40
41:UF:141:GLY:O	41:UF:184:ASN:ND2	2.53	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:UF:316:VAL:HG12	41:UF:352:ALA:HB3	2.03	0.40
42:UI:320:ARG:HB3	42:UI:374:ALA:HB3	2.03	0.40
41:UJ:28:HIS:HA	41:UJ:43:GLN:HB2	2.02	0.40
41:UL:215:LEU:HD21	41:UL:273:LEU:HD22	2.03	0.40
42:VE:238:ILE:HG23	42:VE:255:PHE:CE2	2.51	0.40
41:VF:165:ASN:HD21	41:VF:250:LEU:HD22	1.85	0.40
41:VF:323:MET:SD	41:VF:353:VAL:HG21	2.61	0.40
41:VH:7:LEU:HD21	41:VH:151:LEU:HD13	2.02	0.40
41:VH:219:THR:O	41:VH:219:THR:OG1	2.33	0.40
42:VI:345:ASP:OD1	42:VI:345:ASP:N	2.53	0.40
41:VJ:163:ILE:HD11	41:VJ:251:ARG:HG2	2.02	0.40
42:WE:125:LEU:HD23	42:WE:125:LEU:HA	1.92	0.40
42:WG:71:GLU:HB3	42:WG:98:ASP:HB3	2.02	0.40
42:WG:328:VAL:O	42:WG:332:ILE:HG12	2.21	0.40
41:WH:190:HIS:O	41:WH:193:VAL:HG12	2.21	0.40
41:WH:371:SER:C	41:WH:373:ALA:H	2.24	0.40
42:WI:363:VAL:O	42:WI:365:GLY:N	2.54	0.40
5:1N:74:VAL:HG22	42:LC:155:GLU:HG3	2.03	0.40
9:2D:365:LEU:HD11	42:IG:282:TYR:HE1	1.85	0.40
13:2S:131:ARG:NH1	24:4G:324:LEU:HG	2.35	0.40
19:3L:166:LYS:HA	19:3L:199:ILE:HD11	2.03	0.40
21:3V:57:LEU:HD23	41:LL:113:VAL:HG13	2.02	0.40
22:4C:28:ARG:HH22	41:CF:287:PRO:CG	2.27	0.40
24:4G:194:GLN:HE22	42:HM:370:LYS:H	1.68	0.40
26:4M:79:LEU:O	26:4M:83:ASP:N	2.52	0.40
27:4O:135:LEU:HD23	27:4O:135:LEU:HA	1.96	0.40
27:4R:146:ILE:HD13	27:4R:146:ILE:HA	1.84	0.40
27:4R:195:PRO:HD3	27:4R:247:MET:CE	2.51	0.40
30:5A:152:LYS:O	30:5A:156:GLU:N	2.45	0.40
30:5A:272:ARG:O	30:5A:274:LYS:NZ	2.53	0.40
32:5M:61:LYS:HD2	32:5M:65:GLN:HE22	1.87	0.40
32:5O:248:GLN:O	32:5O:249:THR:C	2.58	0.40
33:5R:192:LEU:HG	33:5R:199:ILE:HD11	2.03	0.40
33:5S:45:LEU:HD21	33:5T:352:LEU:HD23	2.03	0.40
33:5S:77:MET:O	33:5S:80:LYS:N	2.53	0.40
33:5T:350:ALA:HA	33:5T:353:LYS:HE2	2.03	0.40
33:5W:355:LYS:NZ	33:5X:42:ALA:HA	2.36	0.40
33:5Y:193:ASN:HD21	34:6M:144:GLN:HG3	1.86	0.40
34:6B:202:ARG:NH1	34:6B:469:ASP:OD1	2.53	0.40
34:6C:437:ARG:HD3	34:6C:437:ARG:HA	1.52	0.40
34:6E:407:PRO:HD2	34:6E:410:GLU:CB	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:6P:92:ALA:HA	35:6P:95:THR:HG22	2.02	0.40
35:6S:162:ARG:NH1	35:6S:168:VAL:H	2.19	0.40
35:6T:179:GLU:O	35:6T:183:ILE:HG12	2.21	0.40
35:6U:156:LEU:HD21	35:6U:176:LEU:HB3	2.04	0.40
35:6U:293:LEU:HA	35:6U:293:LEU:HD13	1.91	0.40
35:6V:57:PHE:O	35:6V:60:CYS:SG	2.73	0.40
35:6W:68:PHE:O	35:6W:72:ASP:N	2.46	0.40
37:7D:78:ARG:NH2	42:SC:93:ILE:HA	2.37	0.40
37:7F:92:ARG:HD3	37:7F:92:ARG:HA	1.91	0.40
42:AE:238:ILE:HG23	42:AE:255:PHE:HE2	1.86	0.40
42:AI:105:ARG:CZ	42:AI:110:ILE:HD11	2.51	0.40
42:AK:384:ILE:H	42:AK:384:ILE:HG12	1.37	0.40
42:AK:401:LYS:O	42:AK:402:ARG:C	2.60	0.40
42:BC:65:ALA:HB3	42:BC:87:PHE:HE2	1.86	0.40
41:BD:163:ILE:HG22	41:BD:164:MET:N	2.36	0.40
41:BD:273:LEU:HD23	41:BD:273:LEU:HA	1.95	0.40
41:BF:87:PRO:HD3	41:CF:281:TYR:HD2	1.87	0.40
41:BF:121:ARG:NH2	41:BF:158:GLU:OE1	2.50	0.40
41:BF:204:ASN:OD1	43:BF:501:GDP:O2'	2.39	0.40
41:BH:7:LEU:HD11	41:BH:151:LEU:HD21	2.01	0.40
41:BH:30:ILE:HD11	41:BH:47:ILE:HD11	2.04	0.40
41:CB:389:PHE:HE1	41:CB:409:THR:HG22	1.86	0.40
42:CC:109:THR:O	42:CC:111:GLY:N	2.54	0.40
42:CC:262:TYR:CD1	42:CC:265:ILE:HD11	2.57	0.40
42:CC:272:TYR:CE1	42:CC:374:ALA:HB1	2.55	0.40
41:CD:21:TRP:CZ2	41:CD:63:ALA:HB2	2.56	0.40
42:CE:2:ARG:NH2	42:CE:243:ARG:HA	2.36	0.40
41:CF:267:MET:H	41:CF:267:MET:HG3	1.67	0.40
42:CG:397:LEU:H	42:CG:397:LEU:HG	1.72	0.40
42:CK:259:LEU:HD21	42:CK:316:CYS:HB2	2.03	0.40
41:CL:241:ARG:HH22	41:CL:318:ARG:NH1	2.19	0.40
41:CL:303:CYS:HA	41:CL:376:GLU:OE2	2.22	0.40
42:CM:109:THR:O	42:CM:111:GLY:N	2.53	0.40
42:CM:110:ILE:HD12	42:CM:113:GLU:HB2	2.02	0.40
41:DB:393:ALA:O	41:DB:396:HIS:NE2	2.48	0.40
42:DE:97:GLU:OE1	42:DE:105:ARG:NH2	2.54	0.40
41:DF:257:MET:SD	41:DF:312:THR:HG23	2.61	0.40
42:DG:97:GLU:HG3	42:DG:98:ASP:H	1.86	0.40
42:DG:138:PHE:CE1	42:DG:169:PHE:HD2	2.39	0.40
41:DH:263:LEU:HD13	41:DH:263:LEU:HA	1.88	0.40
41:DJ:52:ASN:C	41:EJ:282:ARG:HH22	2.24	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DJ:100:ASN:HB3	41:DJ:103:LYS:HG3	2.02	0.40
41:DJ:286:VAL:HB	41:DJ:287:PRO:HD3	2.02	0.40
41:DJ:289:LEU:HD21	41:DJ:364:SER:N	2.36	0.40
41:DJ:361:LEU:HD23	41:DJ:361:LEU:HA	1.88	0.40
42:EC:53:PHE:HB3	42:EC:61:HIS:HB3	2.03	0.40
42:EC:219:ILE:HG12	42:EC:226:ASN:HD22	1.87	0.40
41:ED:271:ALA:CB	41:ED:365:ALA:HB3	2.51	0.40
41:EF:258:VAL:HG23	42:EG:407:TRP:HE1	1.87	0.40
42:EG:305:CYS:SG	42:EG:305:CYS:O	2.79	0.40
42:EG:335:ILE:HG23	42:EG:341:ILE:HD13	2.03	0.40
41:EH:105:HIS:HA	41:EH:150:LEU:HD22	2.03	0.40
41:EH:318:ARG:HB2	41:EH:364:SER:OG	2.22	0.40
42:EI:301:GLN:HE21	42:EI:307:PRO:HG3	1.86	0.40
42:EM:188:ILE:HA	42:EM:188:ILE:HD12	1.74	0.40
42:EM:320:ARG:HD3	42:EM:360:PRO:HG3	2.03	0.40
42:EM:326:LYS:H	42:EM:326:LYS:HG3	1.59	0.40
42:FC:430:LYS:HA	42:FC:430:LYS:HD3	1.65	0.40
41:FD:165:ASN:HB2	41:FD:200:TYR:HE2	1.85	0.40
42:FE:139:HIS:CD2	42:FE:150:THR:HG21	2.56	0.40
42:FE:216:ASN:OD1	42:FE:217:LEU:N	2.50	0.40
41:FF:3:GLU:HG2	41:FF:130:LEU:HA	2.02	0.40
41:FF:156:ARG:HH22	41:FF:197:ASP:CG	2.25	0.40
41:FH:64:VAL:HG12	41:FH:66:VAL:HG23	2.03	0.40
41:FH:68:LEU:HB3	41:FH:143:THR:OG1	2.20	0.40
42:FI:141:PHE:O	42:FI:187:SER:OG	2.35	0.40
42:FI:349:THR:OG1	42:FI:350:GLY:N	2.55	0.40
42:FI:406:HIS:HA	42:FI:409:VAL:HG12	2.02	0.40
41:FJ:324:LYS:HE2	41:FJ:324:LYS:HB2	1.77	0.40
42:FK:109:THR:HG21	42:FK:411:GLU:OE1	2.21	0.40
42:FK:202:PHE:HZ	42:FK:378:LEU:HG	1.85	0.40
42:FK:212:ILE:HD12	42:FK:300:ASN:HA	2.04	0.40
41:FL:11:GLN:O	41:FL:12:CYS:C	2.59	0.40
41:FL:413:SER:OG	41:FL:414:ASN:N	2.54	0.40
42:FM:316:CYS:HB3	42:FM:378:LEU:HB2	2.03	0.40
42:GC:394:LYS:HA	42:GC:394:LYS:HD2	1.89	0.40
42:GE:135:PHE:HB2	42:GE:166:LYS:HA	2.02	0.40
42:GE:140:SER:OG	45:GE:501:GTP:O2B	2.39	0.40
42:GG:395:PHE:CD2	42:GG:422:ARG:HD3	2.56	0.40
41:GJ:20:PHE:CE2	41:GJ:233:MET:HB3	2.55	0.40
41:GJ:379:LYS:HE3	41:GJ:379:LYS:HB3	1.42	0.40
42:GK:238:ILE:HG13	42:GK:239:THR:HG23	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:GL:350:LYS:HE2	42:GM:179:THR:O	2.22	0.40
42:HC:200:CYS:HB3	42:HC:202:PHE:CE2	2.56	0.40
42:HC:206:ASN:O	42:HC:209:ILE:HG12	2.21	0.40
41:HD:258:VAL:O	42:HE:407:TRP:HH2	2.03	0.40
41:HD:299:MET:HE3	41:HD:299:MET:HB3	1.96	0.40
42:HE:246:GLY:HA2	42:HE:357:TYR:CD1	2.56	0.40
42:HE:408:TYR:O	42:HE:413:MET:HB3	2.21	0.40
41:HF:246:LEU:HB3	41:HF:352:ALA:HA	2.03	0.40
42:HG:258:ASN:HD22	42:HG:258:ASN:HA	1.75	0.40
42:HG:259:LEU:O	42:HG:261:PRO:HD3	2.22	0.40
41:HJ:101:TRP:CD1	41:HJ:101:TRP:C	2.95	0.40
41:HJ:117:LEU:HD11	41:HJ:154:LYS:HB2	2.02	0.40
41:HJ:188:SER:C	41:HJ:190:HIS:H	2.24	0.40
42:HK:265:ILE:HG22	42:HK:380:ASN:HD21	1.86	0.40
42:HM:243:ARG:H	42:HM:243:ARG:HG2	1.55	0.40
42:IE:252:LEU:HA	42:IE:252:LEU:HD12	1.85	0.40
42:IE:305:CYS:O	42:IE:306:ASP:C	2.59	0.40
42:IE:399:TYR:O	42:IE:400:ALA:C	2.58	0.40
42:IG:238:ILE:HD13	42:IG:378:LEU:CD1	2.51	0.40
41:IN:100:ASN:HD22	41:IN:103:LYS:HG2	1.87	0.40
42:JE:245:ASP:OD1	42:JE:246:GLY:N	2.54	0.40
41:JH:60:VAL:HG21	41:JH:86:ARG:HB2	2.03	0.40
41:JJ:166:THR:HG23	41:JJ:199:THR:HG23	2.03	0.40
42:KG:265:ILE:HG22	42:KG:380:ASN:HD21	1.87	0.40
42:KI:112:LYS:HD2	42:KI:112:LYS:HA	1.94	0.40
41:LD:272:PRO:HD3	41:LD:364:SER:HA	2.03	0.40
41:LD:357:PRO:HB2	41:LD:361:LEU:O	2.21	0.40
42:LE:141:PHE:CZ	42:LE:194:THR:HG21	2.56	0.40
42:LG:7:VAL:HB	42:LG:137:ILE:HG12	2.02	0.40
41:MD:44:LEU:HD12	41:MD:47:ILE:HG13	2.02	0.40
41:MD:164:MET:HB3	41:MD:196:THR:HA	2.03	0.40
41:MD:251:ARG:C	41:MD:253:LEU:N	2.74	0.40
41:MD:311:LEU:HD21	41:MD:372:THR:HG23	2.02	0.40
42:ME:320:ARG:HD2	42:ME:356:ASN:HB3	2.03	0.40
41:MF:318:ARG:HE	41:MF:318:ARG:HB3	1.54	0.40
42:MG:4:CYS:HB3	42:MG:136:LEU:HD11	2.01	0.40
42:MG:133:GLN:HG2	42:MG:251:ASP:OD1	2.21	0.40
42:MG:152:LEU:HD12	42:MG:152:LEU:HA	1.86	0.40
42:MG:255:PHE:O	42:MG:256:GLN:C	2.59	0.40
41:ML:99:ASN:ND2	43:ML:501:GDP:O1A	2.54	0.40
42:NA:70:LEU:HB3	42:NA:97:GLU:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:NA:305:CYS:O	42:NA:306:ASP:C	2.59	0.40
42:NC:5:ILE:HB	42:NC:135:PHE:CD1	2.57	0.40
42:NC:338:LYS:HE2	42:NC:338:LYS:HB2	1.49	0.40
41:ND:30:ILE:HD11	41:ND:47:ILE:HG12	2.02	0.40
41:ND:347:ASN:O	42:NE:181:VAL:HG23	2.21	0.40
41:NF:150:LEU:HD12	41:NF:150:LEU:HA	1.89	0.40
42:NI:401:LYS:H	42:NI:401:LYS:HG2	1.58	0.40
41:NJ:372:THR:HA	41:NJ:422:TYR:CE1	2.56	0.40
42:NK:115:ILE:O	42:NK:118:VAL:HG22	2.21	0.40
41:NL:380:ARG:HH21	41:NL:381:ILE:HD11	1.86	0.40
41:OB:127:CYS:O	41:OB:127:CYS:SG	2.80	0.40
41:OB:202:ILE:HG21	41:OB:229:VAL:HG13	2.04	0.40
42:OC:172:TYR:CD1	42:OC:173:PRO:HD2	2.56	0.40
41:OF:68:LEU:HD11	41:OF:109:GLY:HA2	2.04	0.40
41:OF:162:ARG:HA	41:OF:251:ARG:NH2	2.36	0.40
42:OK:382:THR:OG1	42:OK:432:TYR:O	2.33	0.40
42:PA:319:TYR:HB2	42:PA:355:ILE:HA	2.03	0.40
42:PC:135:PHE:CE1	42:PC:166:LYS:HD2	2.56	0.40
42:PC:146:GLY:O	42:PC:147:SER:C	2.58	0.40
42:PC:195:LEU:HD11	42:PC:428:LEU:HD22	2.02	0.40
42:PE:9:VAL:HA	42:PE:68:VAL:O	2.21	0.40
42:PE:199:ASP:O	42:PE:201:ALA:N	2.54	0.40
41:PF:12:CYS:SG	41:PF:169:VAL:HG21	2.61	0.40
42:PG:215:ARG:O	42:PG:216:ASN:C	2.58	0.40
41:PH:52:ASN:HB3	41:PH:53:GLU:H	1.62	0.40
41:PH:273:LEU:HD23	41:PH:273:LEU:HA	1.75	0.40
42:PI:327:ASP:O	42:PI:331:ALA:N	2.49	0.40
41:PJ:119:VAL:O	41:PJ:120:VAL:C	2.59	0.40
41:PL:107:THR:O	41:PL:109:GLY:N	2.54	0.40
41:PL:395:LEU:HA	41:PL:398:TYR:HB3	2.02	0.40
41:QB:53:GLU:HG2	41:QB:59:TYR:HE2	1.86	0.40
41:QB:139:LEU:O	41:QB:184:ASN:ND2	2.55	0.40
42:QC:300:ASN:ND2	42:QC:300:ASN:O	2.54	0.40
41:QF:134:GLN:CB	41:QF:165:ASN:HB2	2.51	0.40
41:QF:173:PRO:O	41:QF:175:VAL:N	2.54	0.40
41:QF:259:PRO:HA	42:QG:404:PHE:CD1	2.56	0.40
41:QF:280:GLN:HG3	41:QF:281:TYR:CD2	2.56	0.40
42:QG:53:PHE:CD1	42:QG:63:PRO:HA	2.56	0.40
41:QH:201:CYS:O	41:QH:301:ALA:HB2	2.20	0.40
42:QI:65:ALA:H	42:QI:91:GLN:NE2	2.18	0.40
42:QI:86:LEU:O	42:QI:87:PHE:C	2.60	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:QI:86:LEU:HB3	42:QI:87:PHE:H	1.73	0.40
42:QI:125:LEU:O	42:QI:126:ALA:C	2.59	0.40
42:QI:212:ILE:HA	42:QI:215:ARG:HB2	2.03	0.40
41:QJ:215:LEU:HD21	41:QJ:273:LEU:HD12	2.03	0.40
42:QK:4:CYS:H	42:QK:64:ARG:HH22	1.70	0.40
42:QK:185:TYR:CE1	42:QK:398:MET:HB3	2.56	0.40
42:QK:273:ALA:HB3	42:QK:291:ILE:HG23	2.02	0.40
41:QL:136:THR:HG23	41:QL:167:PHE:O	2.22	0.40
41:QL:222:TYR:O	41:QL:223:GLY:C	2.60	0.40
41:RD:192:LEU:HD12	41:RD:192:LEU:HA	1.97	0.40
41:RD:228:LEU:HG	41:RD:270:PHE:CZ	2.56	0.40
41:RD:250:LEU:O	41:RD:251:ARG:C	2.59	0.40
42:RE:394:LYS:HA	42:RE:394:LYS:HD3	1.88	0.40
42:RE:396:ASP:OD1	42:RE:397:LEU:N	2.55	0.40
41:RF:117:LEU:HB3	41:RF:121:ARG:HH21	1.84	0.40
41:RF:221:THR:HG23	41:RF:223:GLY:H	1.85	0.40
42:RG:88:HIS:O	42:RG:91:GLN:HB2	2.22	0.40
42:RG:385:ALA:HA	42:RG:388:TRP:HE3	1.86	0.40
42:RK:31:GLN:HG2	42:RK:33:ASP:H	1.86	0.40
42:RK:188:ILE:HG21	42:RK:422:ARG:NH2	2.36	0.40
41:RL:170:VAL:HG21	41:RL:377:LEU:HD11	2.03	0.40
42:SC:186:ASN:HA	42:SC:189:LEU:HD12	2.03	0.40
41:SD:60:VAL:HB	41:SD:86:ARG:HE	1.86	0.40
42:SE:166:LYS:O	42:SE:168:GLU:N	2.55	0.40
42:SE:319:TYR:CG	42:SE:375:VAL:HG22	2.56	0.40
42:SG:261:PRO:HD2	42:SG:265:ILE:HG23	2.03	0.40
41:SH:8:GLN:HE21	41:SH:65:LEU:HG	1.84	0.40
42:SI:51:THR:HG21	42:SI:243:ARG:HG2	2.03	0.40
42:SK:186:ASN:O	42:SK:190:THR:HG23	2.21	0.40
42:TC:189:LEU:HA	42:TC:192:HIS:CE1	2.56	0.40
41:TD:200:TYR:CE1	41:TD:266:PHE:HD2	2.38	0.40
42:TE:155:GLU:HA	42:TE:197:HIS:ND1	2.37	0.40
41:TF:150:LEU:O	41:TF:154:LYS:HG2	2.21	0.40
41:TF:253:LEU:HD23	41:TF:253:LEU:HA	1.93	0.40
42:TG:108:TYR:CG	42:TG:412:GLY:HA3	2.57	0.40
42:TG:199:ASP:HB2	42:TG:256:GLN:HG2	2.03	0.40
42:TG:326:LYS:HB2	41:TH:212:PHE:HE1	1.86	0.40
42:TG:387:ALA:HA	42:TG:390:ARG:HG3	2.02	0.40
41:TH:251:ARG:HE	41:TH:251:ARG:HB2	1.69	0.40
42:TI:270:ALA:O	42:TI:302:MET:HB2	2.21	0.40
42:TK:49:PHE:O	42:TK:51:THR:N	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:TK:223:THR:HB	42:TK:225:THR:HG23	2.02	0.40
42:TK:382:THR:HA	42:TK:432:TYR:HE2	1.86	0.40
42:TM:150:THR:O	42:TM:154:MET:HG2	2.21	0.40
42:TM:230:LEU:O	42:TM:234:ILE:HG12	2.21	0.40
42:TM:233:GLN:HE22	42:TM:368:LEU:HG	1.86	0.40
41:UD:309:ARG:HG2	41:UD:340:TYR:HA	2.03	0.40
42:UG:324:VAL:HA	42:UG:325:PRO:HD3	1.87	0.40
42:UI:287:SER:O	42:UI:291:ILE:HG13	2.21	0.40
41:UJ:416:ASN:HA	41:UJ:419:VAL:HG12	2.03	0.40
41:VD:344:TRP:CE3	42:VE:401:LYS:HE3	2.56	0.40
41:VF:221:THR:O	41:VF:225:LEU:HD13	2.21	0.40
41:VF:239:CYS:HB3	41:VF:247:ASN:HB3	2.03	0.40
41:VF:252:LYS:HA	42:VG:100:ALA:HB1	2.04	0.40
42:VG:238:ILE:HA	42:VG:318:LEU:HD13	2.03	0.40
41:VH:151:LEU:HD23	41:VH:151:LEU:HA	1.87	0.40
42:VI:168:GLU:HB3	42:VI:201:ALA:HA	2.03	0.40
42:VI:389:ALA:HA	42:VI:392:ASP:HB2	2.03	0.40
41:VJ:167:PHE:CZ	41:VJ:233:MET:HG2	2.55	0.40
42:VK:251:ASP:OD1	42:VK:254:GLU:HG2	2.21	0.40
42:VK:290:GLU:HG3	42:VK:291:ILE:N	2.36	0.40
42:WC:104:ALA:O	42:WC:108:TYR:N	2.51	0.40
41:WD:350:LYS:HA	42:WE:179:THR:O	2.21	0.40
41:WF:165:ASN:HB3	41:WF:200:TYR:CE2	2.54	0.40
41:WF:262:ARG:HE	41:WF:262:ARG:HB3	1.60	0.40
42:WG:239:THR:O	42:WG:243:ARG:NH1	2.54	0.40
41:WH:151:LEU:HD23	41:WH:151:LEU:HA	1.70	0.40
42:WI:250:VAL:HG11	42:WI:318:LEU:HD22	2.04	0.40
41:WJ:61:PRO:HG2	41:WJ:85:PHE:HD1	1.87	0.40
41:WJ:252:LYS:HA	41:WJ:255:VAL:HG12	2.03	0.40
41:WL:317:PHE:N	41:WL:352:ALA:O	2.35	0.40
8:1Z:36:ARG:NE	27:4Q:211:ILE:HG22	2.36	0.40
10:2G:75:ARG:HH22	42:AG:296:PHE:C	2.24	0.40
10:2H:75:ARG:HH21	42:AK:336:LYS:HZ1	1.67	0.40
11:2M:371:ARG:HH12	42:UM:369:ALA:HB1	1.86	0.40
20:3P:623:ARG:HH11	41:EH:56:GLY:HA3	1.87	0.40
21:3T:130:ASP:OD1	42:KG:215:ARG:HD3	2.21	0.40
22:4A:186:PRO:HG3	41:CJ:44:LEU:HD23	2.02	0.40
24:4F:133:MET:HE1	42:HC:372:GLN:HG2	2.02	0.40
27:4T:211:ILE:HG21	41:WN:122:LYS:HB3	2.03	0.40
31:5E:130:GLU:HG2	42:OE:85:GLN:OE1	2.21	0.40
33:5S:72:SER:O	33:5S:73:ARG:C	2.58	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:5V:90:ASP:O	33:5V:94:GLN:N	2.47	0.40
33:5V:284:LYS:O	33:5V:285:ASN:C	2.58	0.40
33:5X:120:ARG:NH2	33:5X:131:ASP:OD2	2.54	0.40
34:6A:192:LEU:HD12	34:6A:192:LEU:HA	1.76	0.40
34:6K:201:HIS:HA	34:6K:204:LYS:NZ	2.37	0.40
35:6Q:316:HIS:CD2	42:LE:31:GLN:HE21	2.40	0.40
35:6T:164:HIS:HB3	35:6T:165:PRO:HD3	2.03	0.40
35:6U:370:ARG:HB2	35:6W:6:ILE:HD11	2.04	0.40
35:6U:419:LYS:HA	35:6U:419:LYS:HD3	1.93	0.40
35:6V:177:LEU:O	35:6V:178:LYS:C	2.59	0.40
35:6V:412:LEU:HA	35:6W:63:ARG:NH2	2.37	0.40
35:6W:256:THR:O	35:6W:257:TRP:C	2.59	0.40
37:7F:68:PRO:HG2	42:OC:341:ILE:HD11	2.03	0.40
40:7N:432:ARG:HG3	40:7N:441:ASN:HD21	1.86	0.40
41:AB:22:GLU:HG2	41:AB:81:PHE:CG	2.56	0.40
41:AB:152:ILE:HD11	41:AB:191:GLN:NE2	2.36	0.40
42:AC:128:GLN:HE21	42:AC:128:GLN:HB2	1.77	0.40
42:AC:169:PHE:CE2	42:AC:235:VAL:HG22	2.56	0.40
42:AC:344:VAL:HB	42:AC:346:TRP:HE3	1.87	0.40
41:AD:21:TRP:O	41:AD:25:SER:OG	2.30	0.40
42:AG:90:GLU:OE2	42:BG:280:LYS:HD2	2.20	0.40
42:AG:402:ARG:NH2	42:AG:415:GLU:OE1	2.54	0.40
42:AI:163:LYS:HG2	42:AI:164:LYS:N	2.37	0.40
42:AK:103:TYR:OH	42:AK:147:SER:HB3	2.21	0.40
42:AK:167:LEU:HB3	42:AK:202:PHE:CE2	2.52	0.40
42:AK:283:HIS:HB3	42:KM:62:VAL:HG11	2.04	0.40
41:BD:215:LEU:O	41:BD:216:LYS:C	2.60	0.40
42:BG:188:ILE:HD12	42:BG:425:MET:HG3	2.03	0.40
42:BI:8:HIS:ND1	42:BI:17:GLY:HA3	2.37	0.40
41:BJ:19:LYS:HA	41:BJ:19:LYS:HD3	1.90	0.40
41:CB:21:TRP:CZ2	41:CB:63:ALA:HB2	2.55	0.40
42:CC:206:ASN:HD22	42:CC:206:ASN:HA	1.48	0.40
41:CF:47:ILE:HD12	41:CF:47:ILE:HA	1.90	0.40
42:CG:185:TYR:O	42:CG:186:ASN:C	2.60	0.40
41:CH:122:LYS:HG3	41:DH:291:GLN:HE22	1.87	0.40
41:CJ:73:MET:O	41:CJ:77:ARG:HD3	2.21	0.40
41:CJ:113:VAL:HA	41:CJ:116:VAL:HG13	2.04	0.40
41:CJ:225:LEU:HA	41:CJ:228:LEU:HD12	2.03	0.40
41:CJ:246:LEU:HD11	45:CK:501:GTP:H5''	2.02	0.40
41:CJ:318:ARG:NH1	41:CJ:354:CYS:C	2.75	0.40
41:CJ:320:ARG:HA	41:CJ:320:ARG:HD3	1.25	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CK:142:GLY:HA3	42:CK:183:GLU:OE1	2.20	0.40
42:CM:79:ARG:NH2	42:CM:94:THR:OG1	2.54	0.40
42:CM:426:ALA:HB1	42:CM:430:LYS:HZ1	1.86	0.40
41:DB:324:LYS:NZ	42:DC:210:TYR:CG	2.85	0.40
42:DC:316:CYS:HA	42:DC:352:LYS:HB3	2.04	0.40
41:DF:8:GLN:OE1	41:DF:65:LEU:HG	2.22	0.40
41:DF:136:THR:HG21	41:DF:233:MET:HE3	2.03	0.40
41:DF:190:HIS:O	41:DF:193:VAL:HG22	2.20	0.40
41:DF:221:THR:N	41:DF:224:ASP:OD2	2.49	0.40
42:DG:50:ASN:O	42:DG:64:ARG:NH1	2.55	0.40
42:DG:397:LEU:HD23	42:DG:397:LEU:HA	1.91	0.40
41:DH:102:ALA:O	41:DH:104:GLY:N	2.53	0.40
41:DH:239:CYS:O	41:DH:241:ARG:N	2.54	0.40
41:DH:346:PRO:HG3	42:DI:397:LEU:HD22	2.04	0.40
41:DJ:57:GLY:HA2	41:EJ:282:ARG:O	2.21	0.40
41:DJ:138:SER:O	41:DJ:139:LEU:C	2.60	0.40
41:DJ:252:LYS:HG3	42:DK:100:ALA:HA	2.02	0.40
41:DJ:323:MET:HA	41:DJ:326:VAL:CG1	2.52	0.40
41:DL:180:VAL:O	41:DL:184:ASN:ND2	2.54	0.40
41:DL:314:ALA:HB3	41:DL:368:ILE:HB	2.03	0.40
41:DL:411:ALA:HA	41:DL:414:ASN:HD21	1.85	0.40
42:EC:9:VAL:HA	42:EC:68:VAL:O	2.21	0.40
41:ED:152:ILE:HD13	41:ED:152:ILE:HA	1.88	0.40
42:EE:100:ALA:C	42:EE:102:ASN:N	2.74	0.40
42:EE:195:LEU:HD11	42:EE:428:LEU:HD11	2.04	0.40
42:EE:247:ALA:HB1	41:EF:222:TYR:HE2	1.78	0.40
42:EE:289:ALA:O	42:EE:292:THR:HG22	2.21	0.40
41:EF:77:ARG:HD3	41:EF:90:PHE:CE2	2.57	0.40
41:EF:257:MET:SD	41:EF:314:ALA:HB2	2.62	0.40
42:EG:325:PRO:HB3	41:EH:222:TYR:CE1	2.56	0.40
41:EH:379:LYS:HD2	41:EH:379:LYS:HA	1.90	0.40
42:EK:21:TRP:CZ3	42:EK:52:PHE:HB3	2.57	0.40
42:EK:163:LYS:HE2	42:EK:163:LYS:HB2	1.76	0.40
42:FC:355:ILE:H	42:FC:355:ILE:HG12	1.77	0.40
41:FD:61:PRO:HD3	41:FD:84:ILE:HG13	2.03	0.40
41:FD:280:GLN:H	41:FD:280:GLN:HG2	1.59	0.40
41:FD:402:GLY:O	41:FD:403:MET:C	2.59	0.40
42:FE:6:SER:HA	42:FE:136:LEU:HB2	2.02	0.40
42:FE:253:THR:HG22	41:FF:98:GLY:HA3	2.03	0.40
41:FJ:2:ARG:NH2	41:FJ:249:ASP:OD2	2.47	0.40
42:FK:21:TRP:CZ2	42:FK:65:ALA:HB2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:FL:34:GLY:O	41:FL:58:LYS:HA	2.21	0.40
41:FL:61:PRO:HD3	41:FL:84:ILE:HG12	2.04	0.40
41:FL:381:ILE:HA	41:FL:381:ILE:HD12	1.67	0.40
42:FM:195:LEU:HD23	42:FM:195:LEU:HA	1.92	0.40
42:FM:269:LEU:HD11	42:FM:384:ILE:HB	2.03	0.40
41:GD:99:ASN:HB3	41:GD:141:GLY:HA2	2.04	0.40
41:GF:226:ASN:ND2	43:GF:501:GDP:HN1	2.16	0.40
42:GG:432:TYR:HA	42:GG:435:VAL:HG22	2.04	0.40
41:GJ:110:ALA:O	41:GJ:113:VAL:HG12	2.21	0.40
41:GJ:112:LEU:O	41:GJ:113:VAL:C	2.59	0.40
41:GJ:217:LEU:H	41:GJ:217:LEU:HG	1.79	0.40
41:GL:136:THR:HG22	41:GL:167:PHE:HB2	2.02	0.40
42:HC:101:ASN:HA	42:HC:144:GLY:N	2.36	0.40
41:HD:313:VAL:HB	41:HD:367:PHE:CE2	2.56	0.40
41:HF:257:MET:HE1	41:HF:314:ALA:HB2	2.03	0.40
41:HH:20:PHE:CE1	41:HH:233:MET:HG3	2.56	0.40
42:HI:139:HIS:HE1	42:HI:168:GLU:HG3	1.85	0.40
41:HJ:362:LYS:HD2	41:HJ:362:LYS:HA	1.43	0.40
42:HK:62:VAL:HG12	42:HK:88:HIS:CE1	2.56	0.40
42:HK:272:TYR:O	42:HK:275:VAL:HG23	2.21	0.40
42:HM:305:CYS:SG	42:HM:305:CYS:O	2.78	0.40
42:IC:66:VAL:HG22	42:IC:91:GLN:HE21	1.85	0.40
41:ID:133:PHE:HB2	41:ID:164:MET:SD	2.62	0.40
41:ID:204:ASN:OD1	41:ID:204:ASN:N	2.54	0.40
41:ID:246:LEU:HB3	41:ID:353:VAL:HG22	2.02	0.40
42:IE:280:LYS:O	42:IE:281:ALA:C	2.59	0.40
42:IG:326:LYS:HA	42:IG:329:ASN:HB2	2.03	0.40
42:II:238:ILE:HA	42:II:318:LEU:HD13	2.04	0.40
41:IL:237:THR:HG22	41:IL:250:LEU:HD21	2.03	0.40
42:IM:319:TYR:CD2	42:IM:323:VAL:HG21	2.56	0.40
41:IN:52:ASN:HB3	41:IN:60:VAL:HG13	2.04	0.40
42:JC:24:TYR:HB3	42:JC:53:PHE:CE1	2.56	0.40
42:JC:122:ILE:HD11	42:JC:135:PHE:HE2	1.87	0.40
41:JD:395:LEU:O	41:JD:399:THR:N	2.52	0.40
42:JE:19:ALA:HB3	42:JE:228:ASN:HB3	2.04	0.40
42:JE:141:PHE:HZ	42:JE:191:THR:HB	1.86	0.40
41:JH:151:LEU:O	41:JH:155:ILE:HG12	2.21	0.40
41:JJ:34:GLY:HA3	41:JJ:58:LYS:HD2	2.02	0.40
42:JK:201:ALA:O	42:JK:203:MET:N	2.55	0.40
42:JK:216:ASN:O	42:JK:218:ASP:N	2.55	0.40
42:JK:428:LEU:HD12	42:JK:428:LEU:HA	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:JM:73:THR:OG1	42:JM:74:VAL:N	2.52	0.40
41:KD:139:LEU:HD23	41:KD:171:PRO:HD2	2.03	0.40
42:KG:422:ARG:O	42:KG:426:ALA:N	2.51	0.40
41:KJ:200:TYR:HD2	41:KJ:268:PRO:HG3	1.86	0.40
41:LF:2:ARG:HH22	42:LG:73:THR:HG23	1.87	0.40
41:LH:240:LEU:H	41:LH:240:LEU:HD23	1.86	0.40
42:LI:284:GLU:OE1	42:MI:88:HIS:NE2	2.52	0.40
42:MC:251:ASP:OD2	42:MC:253:THR:HG22	2.21	0.40
41:MD:162:ARG:H	41:MD:162:ARG:HG2	1.67	0.40
41:MF:161:ASP:N	41:MF:161:ASP:OD1	2.54	0.40
42:MK:103:TYR:HB3	42:MK:408:TYR:HE2	1.85	0.40
42:MK:169:PHE:CD1	42:MK:235:VAL:HG22	2.56	0.40
42:MK:319:TYR:CD1	42:MK:375:VAL:HG22	2.56	0.40
41:ML:246:LEU:HA	41:ML:246:LEU:HD12	1.85	0.40
41:ML:386:THR:HB	41:ML:390:ARG:NH2	2.37	0.40
42:NA:88:HIS:CD2	42:OA:283:HIS:HB3	2.53	0.40
41:NB:129:CYS:O	41:NB:130:LEU:C	2.59	0.40
42:NC:138:PHE:HZ	42:NC:235:VAL:HG21	1.85	0.40
41:ND:204:ASN:HD21	41:ND:225:LEU:HD13	1.85	0.40
42:NE:101:ASN:HD22	42:NE:101:ASN:HA	1.73	0.40
42:NE:144:GLY:O	42:NE:148:GLY:N	2.41	0.40
42:NG:338:LYS:HE2	42:NG:338:LYS:HB2	1.95	0.40
42:NI:304:LYS:HE2	42:NI:304:LYS:HB2	1.58	0.40
41:NJ:216:LYS:HD3	41:NJ:216:LYS:HA	1.87	0.40
42:NK:78:VAL:HG22	42:NK:82:THR:HG23	2.03	0.40
42:NK:414:GLU:O	42:NK:415:GLU:C	2.59	0.40
42:OA:31:GLN:HG3	42:OA:33:ASP:HB3	2.04	0.40
41:OB:193:VAL:HA	41:OB:264:HIS:HE2	1.85	0.40
41:OB:225:LEU:O	41:OB:229:VAL:HG23	2.21	0.40
42:OC:71:GLU:HA	42:OC:72:PRO:HD3	1.96	0.40
41:OD:54:ALA:HB3	41:OD:58:LYS:HB3	2.03	0.40
41:OD:187:LEU:HD11	41:OD:408:PHE:CZ	2.57	0.40
41:OD:252:LYS:NZ	45:OE:501:GTP:O1G	2.52	0.40
42:OE:260:VAL:HA	42:OE:261:PRO:HD3	1.98	0.40
42:OG:102:ASN:HB3	42:OG:105:ARG:HB2	2.04	0.40
41:OH:185:ALA:O	41:OH:188:SER:N	2.51	0.40
41:OH:332:ASN:OD1	41:OH:333:VAL:N	2.55	0.40
42:OI:115:ILE:HD13	42:OI:115:ILE:HA	1.82	0.40
41:OJ:76:VAL:O	41:OJ:77:ARG:C	2.60	0.40
41:OL:49:VAL:HG11	41:OL:241:ARG:HB3	2.02	0.40
41:PB:200:TYR:OH	41:PB:236:VAL:HG21	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:PC:52:PHE:CZ	42:PC:239:THR:HG22	2.56	0.40
42:PC:121:ARG:HA	42:PC:124:LYS:HG2	2.03	0.40
41:PD:31:ASP:OD1	41:PD:31:ASP:N	2.54	0.40
41:PD:61:PRO:CG	41:PD:84:ILE:HB	2.51	0.40
41:PD:68:LEU:HD23	41:PD:97:ALA:HB2	2.02	0.40
41:PD:151:LEU:HA	41:PD:154:LYS:HB2	2.02	0.40
41:PD:246:LEU:HD13	41:PD:246:LEU:HA	1.79	0.40
41:PD:346:PRO:HG3	42:PE:394:LYS:HB2	2.02	0.40
41:PF:248:ALA:HA	41:PF:252:LYS:HD2	2.03	0.40
41:PF:299:MET:H	41:PF:299:MET:HG2	1.42	0.40
42:PG:238:ILE:HD12	42:PG:255:PHE:CZ	2.56	0.40
42:PG:362:VAL:HG21	42:PG:370:LYS:HG3	2.02	0.40
41:PH:414:ASN:O	41:PH:415:MET:C	2.60	0.40
42:PI:274:PRO:HB2	42:PI:371:VAL:HG21	2.03	0.40
41:PJ:2:ARG:HA	41:PJ:129:CYS:HB3	2.04	0.40
41:PJ:36:TYR:CD1	41:PJ:44:LEU:HD13	2.56	0.40
41:PJ:41:ASP:HB3	41:PJ:42:LEU:H	1.39	0.40
42:PK:76:ASP:O	42:PK:79:ARG:HB2	2.22	0.40
42:PK:326:LYS:HD2	41:PL:220:PRO:HD2	2.02	0.40
41:PL:101:TRP:HB2	41:PL:187:LEU:HD13	2.03	0.40
41:QB:331:LEU:HD21	42:QC:176:GLN:HB3	2.02	0.40
42:QE:402:ARG:HB3	42:QE:405:VAL:HG21	2.03	0.40
41:QF:351:THR:HB	42:QG:179:THR:HG23	2.03	0.40
41:QH:104:GLY:C	41:QH:109:GLY:H	2.24	0.40
41:QH:222:TYR:HA	41:QH:225:LEU:HG	2.03	0.40
42:QI:9:VAL:HG11	42:QI:150:THR:HG22	2.03	0.40
42:QI:274:PRO:HG3	42:QI:374:ALA:HA	2.02	0.40
42:QI:298:PRO:HA	42:QI:301:GLN:HE21	1.86	0.40
41:QJ:7:LEU:HB2	41:QJ:135:LEU:HB3	2.02	0.40
41:QJ:379:LYS:HZ2	41:QJ:419:VAL:HG13	1.86	0.40
42:QK:5:ILE:O	42:QK:135:PHE:HA	2.22	0.40
42:QK:204:VAL:HA	42:QK:302:MET:O	2.21	0.40
42:QK:211:ASP:HA	42:QK:214:ARG:NE	2.36	0.40
41:QL:106:TYR:HB2	41:QL:107:THR:H	1.64	0.40
41:QL:309:ARG:HB2	41:QL:372:THR:HG22	2.03	0.40
41:RB:68:LEU:HD11	41:RB:147:MET:HB2	2.03	0.40
41:RD:30:ILE:HD12	41:RD:30:ILE:HA	1.86	0.40
41:RD:349:VAL:O	41:RD:351:THR:N	2.53	0.40
42:RE:105:ARG:NH2	42:RE:110:ILE:HD11	2.36	0.40
42:RE:320:ARG:NH2	42:RE:358:GLN:O	2.54	0.40
41:RF:202:ILE:HG22	41:RF:207:LEU:HD11	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:RF:290:THR:HA	41:RF:293:MET:HG3	2.03	0.40
42:RG:111:GLY:O	42:RG:115:ILE:N	2.55	0.40
41:RH:341:PHE:HB3	41:RH:345:ILE:HD11	2.03	0.40
42:RI:346:TRP:HZ2	41:RJ:394:PHE:H	1.69	0.40
41:RJ:259:PRO:O	42:RK:406:HIS:HE1	2.03	0.40
42:RK:208:ALA:HB2	42:RK:304:LYS:HG2	2.04	0.40
41:RL:41:ASP:N	41:RL:41:ASP:OD1	2.52	0.40
42:SC:172:TYR:CD1	42:SC:173:PRO:HD2	2.56	0.40
42:SE:5:ILE:HA	42:SE:64:ARG:HG2	2.02	0.40
41:SF:152:ILE:HG21	41:SF:195:ASN:HB3	2.02	0.40
41:SF:272:PRO:HG3	41:SF:364:SER:HB2	2.03	0.40
41:SH:170:VAL:HG11	41:SH:377:LEU:HD11	2.02	0.40
42:SK:276:ILE:HB	42:SK:280:LYS:HG2	2.04	0.40
41:SL:102:ALA:O	41:SL:103:LYS:C	2.60	0.40
42:TC:107:HIS:HA	42:TC:152:LEU:HD22	2.03	0.40
42:TC:161:TYR:HB3	42:TC:164:LYS:HB2	2.04	0.40
42:TC:175:PRO:HD3	42:TC:205:ASP:OD1	2.21	0.40
41:TD:31:ASP:OD1	41:TD:37:HIS:CE1	2.75	0.40
42:TE:54:SER:N	42:TE:62:VAL:O	2.54	0.40
42:TE:277:SER:OG	42:TE:278:ALA:N	2.50	0.40
42:TG:336:LYS:HA	42:TG:336:LYS:HD2	1.88	0.40
42:TI:21:TRP:NE1	42:TI:65:ALA:HB2	2.37	0.40
41:TJ:36:TYR:CE1	41:TJ:44:LEU:HD12	2.56	0.40
42:TK:124:LYS:HE2	42:TK:124:LYS:HB3	1.27	0.40
41:TL:46:ARG:O	41:TL:49:VAL:HG12	2.21	0.40
41:TL:97:ALA:HA	41:TL:103:LYS:HD2	2.03	0.40
42:UC:326:LYS:HD3	41:UD:220:PRO:CD	2.51	0.40
42:UC:390:ARG:HE	42:UC:390:ARG:HB3	1.55	0.40
41:UJ:274:THR:HG22	41:UJ:282:ARG:HD3	2.03	0.40
42:UK:53:PHE:HA	42:UK:63:PRO:HA	2.03	0.40
42:UK:343:PHE:HB3	42:UK:344:VAL:H	1.71	0.40
42:UM:224:TYR:HD2	42:UM:227:LEU:HD11	1.86	0.40
42:VC:118:VAL:HG11	42:VC:149:PHE:CZ	2.55	0.40
42:VC:331:ALA:HA	42:VC:334:THR:HG22	2.04	0.40
41:VD:125:GLU:OE1	41:VD:125:GLU:N	2.54	0.40
41:VF:106:TYR:OH	41:VF:407:GLU:OE1	2.35	0.40
42:VG:271:THR:OG1	42:VG:377:MET:HB3	2.22	0.40
42:VG:402:ARG:HB3	42:VG:403:ALA:H	1.78	0.40
41:VH:135:LEU:HD22	41:VH:152:ILE:HD11	2.04	0.40
42:VI:229:ARG:NH1	42:VI:365:GLY:O	2.55	0.40
41:VJ:275:SER:OG	41:VJ:278:SER:OG	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:VL:258:VAL:HG13	42:VM:407:TRP:HE1	1.87	0.40
42:WC:140:SER:HB3	45:WC:501:GTP:H5'	2.03	0.40
42:WE:100:ALA:O	42:WE:101:ASN:C	2.60	0.40
41:WF:302:ALA:O	41:WF:303:CYS:C	2.59	0.40
41:WH:113:VAL:HG21	41:WH:150:LEU:HD23	2.03	0.40
42:WK:73:THR:HG23	42:WK:74:VAL:HG23	2.03	0.40
42:WK:124:LYS:HB2	42:WK:124:LYS:HE2	1.83	0.40
42:WM:439:SER:HB2	41:WN:391:ARG:HD3	2.04	0.40
2:1D:228:LYS:HE2	26:4K:286:LEU:HD13	2.02	0.40
2:1E:52:ARG:NH2	26:4L:95:ILE:HG23	2.36	0.40
9:2D:488:ARG:HH22	42:IK:362:VAL:HG21	1.85	0.40
9:2E:778:ILE:HD13	41:HD:78:SER:HB3	2.03	0.40
20:3N:320:LYS:N	20:3N:323:ASP:OD2	2.55	0.40
20:3O:130:ASP:N	20:3O:130:ASP:OD1	2.54	0.40
20:3P:396:MET:HA	20:3P:397:PRO:HD3	1.95	0.40
22:3Z:183:GLY:HA2	41:CH:46:ARG:HH21	1.87	0.40
25:4I:337:LEU:HG	25:4I:338:ARG:HG2	2.03	0.40
25:4J:36:GLU:OE2	25:4J:49:ARG:N	2.44	0.40
27:4T:125:PHE:CE1	27:4T:129:GLN:HG3	2.56	0.40
30:5A:140:LYS:HE2	30:5A:140:LYS:HB2	1.87	0.40
30:5A:259:ALA:HA	30:5A:269:VAL:HB	2.04	0.40
30:5A:271:ASP:HB3	30:5A:272:ARG:HG3	2.04	0.40
30:5A:320:THR:OG1	41:LD:276:ARG:NH2	2.54	0.40
30:5A:335:ARG:HD2	42:LC:282:TYR:CD1	2.57	0.40
31:5H:68:LEU:HD12	31:5H:68:LEU:HA	1.95	0.40
32:5M:109:LEU:HD22	32:5M:147:MET:HE1	2.04	0.40
33:5R:202:LYS:HE2	33:5S:319:GLU:HG2	2.03	0.40
33:5S:13:ARG:HG2	33:5S:14:LEU:H	1.87	0.40
33:5S:189:CYS:O	33:5S:190:LEU:C	2.59	0.40
33:5T:82:LEU:O	33:5T:86:ASP:HB2	2.21	0.40
33:5V:116:CYS:O	33:5V:120:ARG:HG2	2.21	0.40
33:5V:277:SER:O	33:5V:278:GLU:C	2.59	0.40
33:5V:310:ASN:HB3	33:5V:345:LEU:HD21	2.03	0.40
33:5X:123:ARG:HE	33:5X:123:ARG:HB2	1.67	0.40
33:5X:392:ASP:OD1	34:6M:337:TRP:NE1	2.54	0.40
34:6A:137:LYS:O	34:6A:138:THR:C	2.59	0.40
34:6C:205:ARG:HG3	34:6C:468:ILE:HG21	2.02	0.40
34:6C:325:ILE:HA	34:6C:328:VAL:HG23	2.02	0.40
34:6F:174:LEU:HD23	34:6F:244:LEU:HG	2.03	0.40
34:6G:398:THR:HG23	34:6H:284:PHE:HE2	1.86	0.40
34:6H:252:HIS:HD2	34:6M:200:PHE:HB3	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:6V:342:ALA:O	35:6V:346:LYS:HG2	2.21	0.40
37:7C:126:ALA:O	41:TL:306:ARG:NH2	2.49	0.40
37:7C:164:LYS:HD2	37:7C:164:LYS:HA	1.86	0.40
38:7I:268:LEU:HD22	41:IL:216:LYS:HD3	2.03	0.40
41:AB:193:VAL:HG22	41:AB:264:HIS:NE2	2.36	0.40
42:AC:36:MET:HG3	42:AC:61:HIS:CE1	2.56	0.40
42:AC:138:PHE:HE2	42:AC:235:VAL:HG21	1.87	0.40
41:AH:67:ASP:HA	41:AH:143:THR:HG21	2.04	0.40
42:AI:167:LEU:HG	42:AI:255:PHE:HZ	1.86	0.40
42:AI:430:LYS:HE2	42:AI:430:LYS:HB2	1.71	0.40
42:AK:93:ILE:H	42:AK:93:ILE:HG12	1.66	0.40
42:AK:405:VAL:O	42:AK:409:VAL:HG23	2.20	0.40
41:BD:108:GLU:H	41:BD:108:GLU:HG3	1.75	0.40
42:BG:317:LEU:HD23	42:BG:317:LEU:HA	1.77	0.40
42:BI:93:ILE:HG12	42:BI:93:ILE:H	1.70	0.40
42:BI:162:GLY:O	42:BI:163:LYS:C	2.60	0.40
42:BI:197:HIS:O	42:BI:198:SER:C	2.60	0.40
42:BI:224:TYR:HD1	42:BI:224:TYR:HA	1.76	0.40
42:BI:238:ILE:HD11	42:BI:378:LEU:HD21	2.03	0.40
41:BL:386:THR:HG23	41:BL:390:ARG:CZ	2.52	0.40
42:CC:264:ARG:H	42:CC:264:ARG:HG2	1.52	0.40
41:CD:49:VAL:HG21	41:CD:241:ARG:HG3	2.03	0.40
41:CD:215:LEU:O	41:CD:216:LYS:C	2.60	0.40
41:CD:311:LEU:HA	41:CD:342:VAL:HG21	2.04	0.40
41:CF:256:ASN:CG	42:CG:181:VAL:HG22	2.41	0.40
42:CG:12:ALA:O	42:CG:13:GLY:C	2.59	0.40
42:CG:201:ALA:O	42:CG:203:MET:N	2.54	0.40
41:CH:22:GLU:HG2	41:CH:81:PHE:CD1	2.56	0.40
41:CH:77:ARG:HH12	41:CH:87:PRO:HD3	1.86	0.40
42:CI:144:GLY:HA2	42:CI:148:GLY:H	1.87	0.40
41:CJ:262:ARG:HE	41:CJ:262:ARG:HB3	1.50	0.40
41:CL:334:GLN:NE2	41:CL:346:PRO:O	2.54	0.40
42:CM:118:VAL:HG13	42:CM:119:LEU:HD23	2.03	0.40
42:CM:399:TYR:O	42:CM:402:ARG:NH1	2.53	0.40
41:DB:13:GLY:HA2	41:DB:16:ILE:HG22	2.03	0.40
41:DF:206:ALA:HB2	41:DF:302:ALA:HB2	2.03	0.40
41:DH:167:PHE:HB3	41:DH:202:ILE:HD11	2.04	0.40
41:DH:245:GLN:HB3	41:DH:246:LEU:H	1.65	0.40
41:DJ:113:VAL:HG21	41:DJ:150:LEU:HD12	2.03	0.40
41:DJ:424:GLN:HE21	41:DJ:424:GLN:HB3	1.69	0.40
42:DK:139:HIS:HB3	42:DK:150:THR:HG21	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DL:43:GLN:NE2	41:DL:359:ARG:HH21	2.19	0.40
42:DM:108:TYR:O	42:DM:112:LYS:HD2	2.21	0.40
42:DM:301:GLN:HE21	42:DM:307:PRO:HG3	1.86	0.40
42:EC:239:THR:HG22	42:EC:252:LEU:HD11	2.03	0.40
42:EC:346:TRP:CZ3	42:EC:438:ASP:HA	2.56	0.40
42:EE:141:PHE:HB3	42:EE:142:GLY:H	1.76	0.40
41:EF:201:CYS:N	41:EF:266:PHE:O	2.44	0.40
41:EF:324:LYS:HG2	42:EG:210:TYR:CE2	2.57	0.40
41:EF:356:ILE:HA	41:EF:357:PRO:HD3	1.87	0.40
42:EG:72:PRO:O	42:EG:74:VAL:N	2.54	0.40
41:EH:238:THR:OG1	41:EH:318:ARG:NH2	2.55	0.40
42:EI:172:TYR:OH	42:EI:387:ALA:O	2.34	0.40
41:EJ:260:PHE:HZ	42:EK:401:LYS:O	2.04	0.40
42:EK:139:HIS:O	42:EK:170:SER:HA	2.22	0.40
42:EK:392:ASP:HA	42:EK:422:ARG:NH2	2.37	0.40
41:EL:415:MET:O	41:EL:419:VAL:HG23	2.21	0.40
42:FC:99:ALA:O	42:FC:102:ASN:N	2.54	0.40
42:FC:106:GLY:HA3	42:FC:149:PHE:H	1.85	0.40
42:FC:112:LYS:O	42:FC:114:LEU:N	2.54	0.40
41:FD:214:THR:HG21	41:FD:273:LEU:HD12	2.04	0.40
41:FD:235:GLY:O	41:FD:236:VAL:C	2.59	0.40
41:FD:266:PHE:CD2	41:FD:368:ILE:HD11	2.56	0.40
41:FF:312:THR:HB	41:FF:350:LYS:NZ	2.36	0.40
42:FG:197:HIS:O	42:FG:197:HIS:ND1	2.53	0.40
42:FI:319:TYR:CD1	42:FI:375:VAL:HG22	2.56	0.40
41:FJ:25:SER:O	41:FJ:30:ILE:N	2.48	0.40
41:FJ:161:ASP:OD1	41:FJ:162:ARG:HD2	2.21	0.40
41:FJ:315:ALA:O	41:FJ:352:ALA:N	2.54	0.40
42:FK:343:PHE:CZ	42:FK:351:PHE:CZ	3.05	0.40
41:FL:246:LEU:HA	41:FL:246:LEU:HD23	1.80	0.40
42:GC:5:ILE:HG23	42:GC:125:LEU:HD23	2.04	0.40
42:GC:332:ILE:HG23	41:GD:175:VAL:HG21	2.02	0.40
41:GD:267:MET:HE2	41:GD:303:CYS:HB2	2.03	0.40
41:GD:397:TRP:CE3	41:GD:397:TRP:HA	2.55	0.40
41:GF:45:GLU:OE1	41:GF:45:GLU:N	2.44	0.40
42:GI:136:LEU:HA	42:GI:167:LEU:O	2.21	0.40
41:GJ:2:ARG:HE	41:GJ:2:ARG:HB2	1.78	0.40
41:GJ:183:TYR:HA	41:GJ:385:PHE:CE1	2.56	0.40
42:GK:88:HIS:ND1	42:HK:284:GLU:OE2	2.54	0.40
42:GM:281:ALA:O	42:GM:283:HIS:N	2.55	0.40
41:HB:252:LYS:HD2	41:HB:252:LYS:HA	1.81	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:HC:114:LEU:O	42:HC:118:VAL:HG22	2.22	0.40
42:HC:118:VAL:O	42:HC:122:ILE:HG13	2.21	0.40
42:HE:184:PRO:O	42:HE:188:ILE:N	2.41	0.40
41:HH:76:VAL:HG23	41:HH:90:PHE:HE1	1.87	0.40
42:HI:88:HIS:O	42:HI:90:GLU:N	2.55	0.40
41:HJ:1:MET:HB2	41:HJ:1:MET:HE2	1.59	0.40
42:HK:12:ALA:O	42:HK:16:ILE:HG12	2.21	0.40
41:HL:217:LEU:HD23	41:HL:217:LEU:HA	1.88	0.40
42:IC:226:ASN:HA	42:IC:229:ARG:HG2	2.02	0.40
42:IE:102:ASN:O	42:IE:103:TYR:C	2.59	0.40
41:IJ:325:GLU:H	41:IJ:325:GLU:HG3	1.62	0.40
41:IN:242:PHE:CG	41:IN:356:ILE:HG12	2.57	0.40
42:JC:108:TYR:HE2	42:JC:413:MET:HA	1.87	0.40
42:JC:346:TRP:CD1	41:JD:391:ARG:HD2	2.56	0.40
42:JE:311:LYS:HB3	42:JE:311:LYS:HE2	1.86	0.40
42:JE:395:PHE:HD2	42:JE:422:ARG:HD3	1.87	0.40
41:JF:36:TYR:OH	41:JF:40:SER:O	2.39	0.40
42:JG:367:ASP:OD1	42:JG:367:ASP:N	2.54	0.40
42:JI:117:LEU:O	42:JI:121:ARG:HG2	2.21	0.40
42:JI:178:SER:HB2	42:JI:183:GLU:OE1	2.21	0.40
41:JJ:8:GLN:NE2	41:JJ:65:LEU:HA	2.36	0.40
41:JJ:259:PRO:HB3	42:JK:404:PHE:CD2	2.57	0.40
42:JK:36:MET:O	42:JK:37:PRO:C	2.60	0.40
42:JK:77:GLU:C	42:JK:79:ARG:H	2.23	0.40
42:JK:313:MET:HB3	42:JK:346:TRP:CH2	2.56	0.40
41:JL:150:LEU:HD22	41:JL:154:LYS:HZ2	1.85	0.40
41:JL:303:CYS:O	41:JL:304:ASP:C	2.59	0.40
42:JM:276:ILE:HD11	42:JM:286:LEU:HD21	2.03	0.40
42:KC:248:LEU:HD11	43:KD:501:GDP:H2'	2.03	0.40
41:KD:67:ASP:HA	41:KD:143:THR:HG21	2.04	0.40
42:KG:202:PHE:HD1	42:KG:268:PRO:HG2	1.84	0.40
42:KG:248:LEU:HB2	41:KH:11:GLN:OE1	2.21	0.40
42:KG:280:LYS:HZ3	42:LG:90:GLU:HG2	1.87	0.40
41:KH:100:ASN:HB3	41:KH:103:LYS:HB2	2.03	0.40
42:KK:26:LEU:HD13	42:KK:363:VAL:HG23	2.02	0.40
42:KM:3:GLU:HG3	42:KM:129:CYS:HB3	2.02	0.40
42:KM:102:ASN:O	42:KM:103:TYR:C	2.59	0.40
42:KM:317:LEU:HD22	42:KM:375:VAL:CG1	2.52	0.40
41:KN:51:TYR:HB3	41:KN:59:TYR:HB3	2.03	0.40
41:KN:306:ARG:HA	41:KN:340:TYR:HE1	1.87	0.40
41:LD:189:VAL:O	41:LD:193:VAL:HG23	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:LH:330:MET:HA	41:LH:333:VAL:HG12	2.03	0.40
41:LJ:25:SER:OG	41:LJ:51:TYR:OH	2.34	0.40
41:LJ:286:VAL:HG12	41:LJ:329:GLN:NE2	2.36	0.40
42:LK:3:GLU:OE1	42:LK:130:THR:N	2.54	0.40
42:LK:406:HIS:HA	42:LK:409:VAL:HG12	2.03	0.40
41:LL:70:PRO:HA	41:LL:73:MET:HG3	2.02	0.40
41:LL:216:LYS:HB2	41:LL:276:ARG:HB2	2.03	0.40
41:LL:306:ARG:HG3	41:LL:340:TYR:CE2	2.56	0.40
42:MC:67:PHE:HB3	42:MC:75:ILE:HD12	2.03	0.40
42:MC:217:LEU:O	42:MC:277:SER:HB3	2.21	0.40
42:MC:309:HIS:HA	42:NA:282:TYR:OH	2.21	0.40
41:MD:246:LEU:HD23	41:MD:246:LEU:H	1.86	0.40
41:MD:274:THR:OG1	41:MD:275:SER:N	2.53	0.40
42:ME:139:HIS:CD2	42:ME:150:THR:HG21	2.57	0.40
41:MF:211:CYS:HA	41:MF:215:LEU:HB2	2.03	0.40
41:MF:378:PHE:HA	41:MF:381:ILE:HG22	2.03	0.40
42:MI:150:THR:O	42:MI:154:MET:HG2	2.21	0.40
41:MJ:49:VAL:HG12	41:MJ:50:TYR:CD1	2.56	0.40
41:MJ:330:MET:HA	41:MJ:333:VAL:HG12	2.04	0.40
41:ML:26:ASP:OD2	41:ML:359:ARG:NH1	2.54	0.40
42:MM:139:HIS:O	42:MM:170:SER:HA	2.21	0.40
42:NA:342:GLN:H	42:NA:342:GLN:HG2	1.42	0.40
41:NB:87:PRO:HG2	41:OB:278:SER:HB2	2.04	0.40
42:NC:72:PRO:O	42:NC:73:THR:C	2.60	0.40
41:ND:98:GLY:O	41:ND:99:ASN:C	2.60	0.40
42:NE:98:ASP:OD2	42:NE:99:ALA:N	2.53	0.40
42:NG:319:TYR:CD1	42:NG:375:VAL:HB	2.56	0.40
41:NH:278:SER:O	41:NH:279:GLN:C	2.59	0.40
42:NI:166:LYS:HB2	42:NI:166:LYS:HE3	1.36	0.40
41:NL:6:HIS:HA	41:NL:134:GLN:HB3	2.04	0.40
42:OA:252:LEU:HA	42:OA:255:PHE:HE1	1.86	0.40
41:OB:88:ASP:C	41:OB:90:PHE:H	2.25	0.40
42:OC:107:HIS:HA	42:OC:152:LEU:HG	2.02	0.40
41:OF:28:HIS:NE2	41:OF:241:ARG:HD2	2.37	0.40
42:OG:151:SER:O	42:OG:155:GLU:HG2	2.21	0.40
41:OH:33:THR:OG1	41:OH:34:GLY:N	2.52	0.40
42:OI:180:ALA:HB3	42:OI:183:GLU:HG3	2.03	0.40
41:OL:63:ALA:O	41:OL:89:ASN:ND2	2.54	0.40
41:OL:87:PRO:HA	41:OL:90:PHE:HB2	2.04	0.40
41:PB:102:ALA:HB1	41:PB:401:GLU:CG	2.50	0.40
41:PB:237:THR:O	41:PB:238:THR:C	2.59	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:PC:136:LEU:O	42:PC:138:PHE:N	2.54	0.40
41:PF:4:ILE:HG22	41:PF:50:TYR:HA	2.02	0.40
41:PF:222:TYR:HA	41:PF:225:LEU:HD23	2.03	0.40
41:PF:222:TYR:O	41:PF:223:GLY:C	2.60	0.40
42:PG:70:LEU:C	42:PG:95:GLY:HA3	2.41	0.40
42:PG:258:ASN:OD1	41:PH:178:THR:HA	2.22	0.40
42:PG:371:VAL:H	42:PG:371:VAL:HG22	1.53	0.40
41:PH:66:VAL:HG13	41:PH:91:VAL:HB	2.04	0.40
41:PH:392:LYS:HA	41:PH:392:LYS:HD3	1.75	0.40
42:PI:228:ASN:O	42:PI:231:ILE:N	2.55	0.40
41:PJ:192:LEU:C	41:PJ:194:GLU:N	2.73	0.40
41:PJ:217:LEU:O	41:PJ:218:THR:C	2.60	0.40
41:PJ:395:LEU:HD13	41:PJ:395:LEU:HA	1.73	0.40
42:PK:110:ILE:O	42:PK:111:GLY:C	2.60	0.40
42:QC:139:HIS:HE1	42:QC:141:PHE:CE2	2.39	0.40
42:QC:214:ARG:HH12	42:QC:222:PRO:HD3	1.86	0.40
41:QD:87:PRO:HA	41:QD:90:PHE:CE1	2.57	0.40
42:QE:139:HIS:O	42:QE:170:SER:OG	2.36	0.40
41:QF:91:VAL:HG12	41:QF:112:LEU:HD21	2.04	0.40
42:QG:326:LYS:HE2	42:QG:326:LYS:HB3	1.72	0.40
42:QG:345:ASP:N	42:QG:345:ASP:OD2	2.46	0.40
42:QG:352:LYS:HA	42:QG:352:LYS:HD2	1.81	0.40
41:QJ:4:ILE:HD11	41:QJ:134:GLN:HB2	2.03	0.40
41:QJ:406:MET:HA	41:QJ:409:THR:HG23	2.04	0.40
42:QK:105:ARG:O	42:QK:107:HIS:N	2.46	0.40
41:QL:81:PHE:O	41:QL:84:ILE:HG12	2.21	0.40
41:QL:269:GLY:HA3	41:QL:299:MET:HG3	2.04	0.40
42:RC:407:TRP:O	42:RC:410:GLY:N	2.55	0.40
41:RD:210:ILE:O	41:RD:214:THR:N	2.54	0.40
42:RE:335:ILE:HD12	42:RE:335:ILE:HA	1.94	0.40
41:RF:49:VAL:HG11	41:RF:241:ARG:HG2	2.04	0.40
41:RF:254:ALA:O	41:RF:255:VAL:C	2.59	0.40
41:RF:267:MET:H	41:RF:267:MET:HG3	1.51	0.40
41:RF:292:GLN:C	41:RF:294:PHE:H	2.25	0.40
42:RI:217:LEU:HB3	42:RI:219:ILE:HG22	2.02	0.40
42:RI:273:ALA:HB2	42:RI:295:CYS:HB2	2.03	0.40
42:RI:317:LEU:HB2	42:RI:353:VAL:HG12	2.04	0.40
41:RJ:330:MET:HE2	41:RJ:330:MET:HB2	1.95	0.40
41:RJ:395:LEU:HD12	41:RJ:399:THR:HG23	2.02	0.40
42:RK:172:TYR:HH	42:RK:388:TRP:HD1	1.67	0.40
41:SD:149:THR:HA	41:SD:152:ILE:HG12	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:SE:348:PRO:HB2	42:SE:349:THR:H	1.70	0.40
41:SF:27:GLU:HA	41:SF:359:ARG:HE	1.86	0.40
41:SF:293:MET:CE	41:SF:365:ALA:HB1	2.51	0.40
42:SG:9:VAL:HA	42:SG:68:VAL:O	2.22	0.40
42:SG:90:GLU:HG2	42:SG:121:ARG:NH2	2.34	0.40
41:SH:60:VAL:HG11	41:SH:86:ARG:HH12	1.86	0.40
42:SK:214:ARG:NH1	42:SK:220:GLU:HG2	2.34	0.40
42:SK:217:LEU:HD22	42:SK:275:VAL:O	2.21	0.40
42:SM:88:HIS:HA	42:TM:283:HIS:ND1	2.36	0.40
42:SM:173:PRO:HB3	42:SM:183:GLU:OE2	2.22	0.40
41:TD:60:VAL:HG21	41:TD:86:ARG:HH12	1.86	0.40
41:TD:395:LEU:HD11	41:TD:408:PHE:CZ	2.56	0.40
41:TF:324:LYS:HE3	42:TG:210:TYR:CD1	2.52	0.40
41:TJ:27:GLU:HA	41:TJ:359:ARG:HD3	2.03	0.40
41:TL:113:VAL:O	41:TL:117:LEU:HD23	2.21	0.40
41:TL:295:ASP:OD2	41:TL:296:ALA:N	2.54	0.40
42:TM:14:VAL:O	42:TM:18:ASN:N	2.52	0.40
42:TM:92:LEU:H	42:TM:92:LEU:HD12	1.85	0.40
42:TM:281:ALA:HA	42:TM:284:GLU:HB2	2.03	0.40
42:TM:401:LYS:HE3	42:TM:401:LYS:HB3	1.91	0.40
42:UC:49:PHE:O	42:UC:53:PHE:N	2.54	0.40
42:UC:335:ILE:HA	42:UC:338:LYS:HE2	2.02	0.40
42:UC:352:LYS:HD2	41:UD:178:THR:HA	2.04	0.40
42:UE:180:ALA:HB3	42:UE:183:GLU:HB2	2.03	0.40
41:UF:401:GLU:OE1	41:UF:401:GLU:N	2.54	0.40
41:UH:267:MET:HG3	41:UH:374:ILE:HD12	2.02	0.40
41:UJ:169:VAL:HG22	41:UJ:202:ILE:HD11	2.04	0.40
42:UK:114:LEU:HD12	42:UK:114:LEU:HA	1.89	0.40
42:UM:172:TYR:CD1	42:UM:173:PRO:HD2	2.56	0.40
42:VC:144:GLY:O	42:VC:148:GLY:N	2.54	0.40
42:VC:261:PRO:HB2	42:VC:262:TYR:HD1	1.87	0.40
41:VD:334:GLN:HE21	41:VD:334:GLN:HB3	1.68	0.40
42:VG:257:THR:HA	41:VH:397:TRP:CD1	2.56	0.40
41:VH:105:HIS:CE1	41:VH:191:GLN:HE21	2.39	0.40
42:VK:75:ILE:HG13	42:VK:92:LEU:HB3	2.03	0.40
42:VK:125:LEU:HD12	42:VK:125:LEU:HA	1.83	0.40
42:VM:384:ILE:H	42:VM:384:ILE:HG13	1.70	0.40
42:WE:153:LEU:HD12	42:WE:153:LEU:HA	1.83	0.40
41:WF:44:LEU:HD12	41:WF:44:LEU:HA	1.96	0.40
41:WF:68:LEU:HD12	41:WF:68:LEU:HA	1.91	0.40
42:WG:332:ILE:HG23	42:WG:351:PHE:CD1	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:WH:44:LEU:HA	41:WH:44:LEU:HD12	1.80	0.40
42:WI:100:ALA:O	42:WI:102:ASN:N	2.55	0.40
42:WI:390:ARG:H	42:WI:390:ARG:HG3	1.73	0.40
41:WJ:7:LEU:HD23	41:WJ:151:LEU:HD13	2.04	0.40
42:WK:317:LEU:HB3	42:WK:319:TYR:CE2	2.57	0.40
41:WL:386:THR:O	41:WL:390:ARG:HG3	2.21	0.40
42:WM:115:ILE:HA	42:WM:115:ILE:HD13	1.94	0.40
41:WN:49:VAL:HG11	41:WN:241:ARG:HG2	2.03	0.40
4:1K:129:LYS:HD3	42:JE:220:GLU:N	2.36	0.40
5:1N:24:LEU:O	42:KC:339:ARG:NE	2.50	0.40
9:2D:558:PHE:O	42:IM:372:GLN:NE2	2.54	0.40
16:3C:168:ASP:HA	42:VK:339:ARG:CZ	2.52	0.40
19:3K:90:VAL:HG22	42:AG:370:LYS:HB3	2.04	0.40
20:3P:121:ARG:HH21	20:3P:132:PHE:HB2	1.86	0.40
20:3Q:605:LEU:HD23	20:3Q:605:LEU:HA	1.93	0.40
25:4I:249:ALA:HB1	25:4I:254:LEU:HD22	2.04	0.40
26:4L:244:LEU:HD23	26:4L:244:LEU:HA	1.89	0.40
27:4T:76:TYR:OH	42:WM:127:ASP:OD1	2.39	0.40
32:5O:144:ARG:HD2	32:5O:144:ARG:HA	1.24	0.40
33:5R:94:GLN:HA	33:5R:97:GLU:OE2	2.22	0.40
33:5V:324:ARG:HA	33:5V:325:PRO:HD3	1.95	0.40
33:5W:307:LYS:HE2	33:5X:49:THR:HG22	2.04	0.40
34:6A:266:ARG:O	34:6A:267:ILE:C	2.60	0.40
34:6A:276:ASN:O	34:6A:281:VAL:HG21	2.21	0.40
34:6B:400:LEU:HD13	34:6B:420:LEU:HD13	2.02	0.40
34:6C:150:VAL:HG22	34:6C:268:ASP:HB3	2.03	0.40
34:6C:177:ILE:HD13	34:6C:177:ILE:HA	1.74	0.40
34:6C:255:GLU:HG2	34:6C:256:LYS:N	2.37	0.40
34:6E:400:LEU:HD12	34:6E:400:LEU:HA	1.80	0.40
34:6E:406:ARG:HB2	34:6E:406:ARG:HE	1.55	0.40
34:6H:223:VAL:O	34:6H:227:LEU:HD23	2.21	0.40
34:6H:371:GLU:H	34:6H:371:GLU:HG2	1.63	0.40
34:6L:325:ILE:HD13	34:6L:325:ILE:HG21	1.90	0.40
34:6L:369:LEU:HD23	34:6L:372:ILE:HD12	2.04	0.40
35:6R:74:SER:HB2	35:6S:405:LEU:HD21	2.03	0.40
35:6R:170:ASP:OD2	35:6R:307:ARG:HD3	2.21	0.40
35:6V:415:ASP:HA	35:6V:418:ILE:HB	2.04	0.40
35:6W:64:TYR:O	35:6W:65:HIS:C	2.59	0.40
41:AB:21:TRP:CZ3	41:AB:50:TYR:HB3	2.56	0.40
41:AH:375:GLN:HB2	41:AH:419:VAL:HG13	2.03	0.40
42:AI:5:ILE:HG13	42:AI:132:LEU:HD21	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:AI:137:ILE:HD11	42:AI:166:LYS:HG2	2.03	0.40
41:AJ:256:ASN:HD22	41:AJ:350:LYS:HD3	1.85	0.40
41:AL:121:ARG:HE	41:AL:121:ARG:HB2	1.50	0.40
42:BC:24:TYR:HE2	42:BC:236:SER:HB2	1.87	0.40
42:BC:219:ILE:HG21	42:BC:219:ILE:HD13	1.91	0.40
42:BC:377:MET:SD	42:BC:379:SER:HB3	2.61	0.40
41:BD:189:VAL:HG13	41:BD:193:VAL:CG2	2.52	0.40
41:BD:252:LYS:HE3	41:BD:252:LYS:HB3	1.91	0.40
42:BE:428:LEU:O	42:BE:432:TYR:HB2	2.22	0.40
41:BF:342:VAL:HG23	41:BF:345:ILE:HB	2.03	0.40
42:BI:104:ALA:O	42:BI:411:GLU:HB2	2.22	0.40
41:BL:36:TYR:CD2	41:BL:44:LEU:HD22	2.57	0.40
41:BL:42:LEU:HD12	41:BL:42:LEU:HA	1.89	0.40
42:CC:262:TYR:CD1	42:CC:262:TYR:N	2.90	0.40
42:CC:401:LYS:O	42:CC:403:ALA:N	2.53	0.40
41:CD:303:CYS:SG	41:CD:377:LEU:HB2	2.61	0.40
42:CG:5:ILE:HD13	42:CG:125:LEU:HD21	2.02	0.40
41:CJ:12:CYS:HB3	41:CJ:138:SER:HB2	2.03	0.40
41:CJ:239:CYS:O	41:CJ:241:ARG:N	2.49	0.40
41:CL:65:LEU:HD22	41:CL:90:PHE:CE1	2.52	0.40
41:CL:256:ASN:OD1	42:CM:181:VAL:HG22	2.22	0.40
42:DE:21:TRP:CZ3	42:DE:63:PRO:HB3	2.56	0.40
42:DG:80:THR:HA	42:DG:84:ARG:HE	1.85	0.40
41:DH:343:GLU:O	42:DI:397:LEU:HD21	2.22	0.40
41:DJ:25:SER:O	41:DJ:30:ILE:N	2.49	0.40
41:DJ:130:LEU:O	41:DJ:132:GLY:N	2.55	0.40
41:DJ:375:GLN:H	41:DJ:375:GLN:HG3	1.53	0.40
42:DK:324:VAL:O	42:DK:325:PRO:C	2.59	0.40
42:DM:101:ASN:HD22	42:DM:143:GLY:HA2	1.87	0.40
42:EC:205:ASP:HB3	42:EC:303:VAL:HA	2.03	0.40
41:ED:424:GLN:O	41:ED:426:GLN:N	2.52	0.40
42:EE:344:VAL:HG22	42:EE:346:TRP:H	1.87	0.40
42:EE:381:THR:C	42:EE:383:ALA:H	2.23	0.40
41:EF:152:ILE:O	41:EF:156:ARG:HG2	2.22	0.40
42:EG:1:MET:N	42:EG:3:GLU:OE1	2.50	0.40
42:EG:15:GLN:H	42:EG:15:GLN:HG2	1.63	0.40
42:EI:392:ASP:OD2	42:EI:422:ARG:NH1	2.54	0.40
42:EK:86:LEU:O	42:EK:87:PHE:C	2.60	0.40
42:EK:224:TYR:HA	42:EK:227:LEU:HD21	2.03	0.40
41:EL:67:ASP:HA	41:EL:143:THR:HG21	2.03	0.40
41:EL:315:ALA:HB1	41:EL:317:PHE:CE2	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:EM:172:TYR:CG	42:EM:173:PRO:HD2	2.56	0.40
42:FC:76:ASP:C	42:FC:78:VAL:H	2.25	0.40
42:FC:185:TYR:HA	42:FC:395:PHE:CD1	2.56	0.40
41:FD:58:LYS:HZ2	41:FD:58:LYS:HG2	1.78	0.40
42:FG:189:LEU:O	42:FG:192:HIS:ND1	2.55	0.40
41:FH:193:VAL:HA	41:FH:264:HIS:CE1	2.56	0.40
41:FH:311:LEU:HB2	41:FH:372:THR:OG1	2.21	0.40
41:FJ:116:VAL:HG13	41:FJ:154:LYS:HZ3	1.86	0.40
41:FJ:198:GLU:HA	41:FJ:264:HIS:HB2	2.03	0.40
42:FK:172:TYR:HA	42:FK:173:PRO:HD3	1.95	0.40
42:FK:239:THR:O	42:FK:240:ALA:C	2.60	0.40
42:FK:265:ILE:H	42:FK:265:ILE:HG12	1.47	0.40
41:FL:324:LYS:HB3	42:FM:222:PRO:HD2	2.04	0.40
42:FM:242:LEU:HD11	42:FM:252:LEU:HG	2.03	0.40
41:GD:28:HIS:HA	41:GD:43:GLN:HG2	2.03	0.40
41:GD:193:VAL:HA	41:GD:264:HIS:CE1	2.54	0.40
41:GD:204:ASN:O	41:GD:205:GLU:C	2.60	0.40
41:GD:214:THR:HG22	41:GD:297:LYS:HE2	2.03	0.40
42:GE:60:LYS:HB2	42:GE:60:LYS:HE3	1.93	0.40
42:GE:72:PRO:HA	42:GE:75:ILE:HG22	2.04	0.40
42:GG:204:VAL:HG13	42:GG:302:MET:HG3	2.03	0.40
42:GG:399:TYR:O	42:GG:402:ARG:NH1	2.55	0.40
41:GH:313:VAL:O	41:GH:350:LYS:N	2.54	0.40
41:GJ:147:MET:HE2	41:GJ:147:MET:CA	2.51	0.40
41:GJ:324:LYS:HB3	42:GK:222:PRO:HD2	2.03	0.40
42:GK:7:VAL:HG23	42:GK:66:VAL:HG23	2.04	0.40
41:GL:7:LEU:O	41:GL:135:LEU:HA	2.22	0.40
41:GL:324:LYS:CB	42:GM:222:PRO:HD2	2.51	0.40
42:GM:164:LYS:HB3	42:GM:165:SER:H	1.58	0.40
41:HB:62:ARG:NH1	41:HB:123:GLU:O	2.55	0.40
42:HC:172:TYR:CD1	42:HC:173:PRO:HD2	2.56	0.40
42:HC:182:VAL:HG22	42:HC:185:TYR:HB2	2.03	0.40
41:HD:28:HIS:O	41:HD:43:GLN:HB3	2.21	0.40
41:HD:253:LEU:O	41:HD:257:MET:HB2	2.21	0.40
41:HF:246:LEU:HD21	41:HF:323:MET:HE1	2.03	0.40
41:HH:258:VAL:HG23	41:HH:263:LEU:HB2	2.04	0.40
41:HH:346:PRO:HG3	42:HI:394:LYS:HB2	2.04	0.40
42:HI:66:VAL:HG13	42:HI:121:ARG:HG2	2.04	0.40
41:HJ:358:PRO:HG3	41:HJ:364:SER:CB	2.52	0.40
41:HJ:393:ALA:C	41:HJ:395:LEU:H	2.24	0.40
42:HK:109:THR:HG22	42:HK:110:ILE:HD12	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:HK:137:ILE:HG22	42:HK:139:HIS:HD2	1.87	0.40
42:HK:388:TRP:CZ3	42:HK:432:TYR:HE2	2.39	0.40
41:HL:186:THR:HG21	41:HL:385:PHE:CD2	2.57	0.40
42:IC:139:HIS:ND1	42:IC:150:THR:HG21	2.37	0.40
41:ID:148:GLY:O	41:ID:152:ILE:HD12	2.20	0.40
41:ID:203:ASP:HB2	41:ID:302:ALA:H	1.87	0.40
41:ID:310:TYR:CD1	41:ID:313:VAL:HG11	2.56	0.40
42:IE:72:PRO:HB2	42:IE:73:THR:H	1.65	0.40
41:IH:181:GLU:HG2	41:IH:182:PRO:HD3	2.03	0.40
42:II:36:MET:HA	42:II:37:PRO:HD3	1.97	0.40
42:II:212:ILE:HD13	42:II:212:ILE:HA	1.87	0.40
41:IJ:101:TRP:HZ2	41:IJ:191:GLN:HE22	1.70	0.40
41:IL:189:VAL:HA	41:IL:192:LEU:HB3	2.04	0.40
42:JC:298:PRO:HB3	42:JC:307:PRO:HD2	2.02	0.40
41:JD:324:LYS:HD3	42:JE:222:PRO:HD2	2.02	0.40
42:JE:54:SER:HB2	42:JE:64:ARG:NH2	2.37	0.40
42:JE:178:SER:OG	42:JE:183:GLU:OE1	2.39	0.40
41:JF:73:MET:HA	41:JF:76:VAL:HG12	2.02	0.40
41:JH:324:LYS:HE2	42:JI:214:ARG:HB2	2.02	0.40
41:JJ:202:ILE:HD13	41:JJ:229:VAL:HG13	2.04	0.40
42:JK:61:HIS:CD2	42:JK:61:HIS:H	2.39	0.40
41:JL:65:LEU:HD12	41:JL:90:PHE:CE1	2.56	0.40
42:JM:100:ALA:O	42:JM:101:ASN:C	2.60	0.40
42:JM:124:LYS:HE3	42:JM:124:LYS:HB2	1.54	0.40
42:JM:190:THR:O	42:JM:191:THR:C	2.60	0.40
42:KK:259:LEU:HD11	42:KK:316:CYS:HB2	2.03	0.40
41:KL:330:MET:SD	41:KL:349:VAL:HG11	2.61	0.40
42:KM:7:VAL:HG13	42:KM:66:VAL:HG13	2.03	0.40
41:LD:230:SER:HA	41:LD:233:MET:HG3	2.04	0.40
42:LE:215:ARG:NH2	42:LE:299:ALA:O	2.53	0.40
41:LF:330:MET:HA	41:LF:333:VAL:HG22	2.04	0.40
42:LI:274:PRO:HG3	42:LI:374:ALA:HA	2.02	0.40
42:LK:103:TYR:HH	42:LK:107:HIS:CE1	2.40	0.40
41:LL:222:TYR:CD2	41:LL:225:LEU:HD12	2.56	0.40
41:LN:207:LEU:HD22	41:LN:228:LEU:HD23	2.02	0.40
42:MC:25:CYS:O	42:MC:30:ILE:N	2.50	0.40
42:MC:63:PRO:HG2	42:MC:87:PHE:CD2	2.57	0.40
42:MC:126:ALA:HA	42:MC:129:CYS:HB2	2.04	0.40
42:MC:139:HIS:NE2	42:MC:168:GLU:OE2	2.51	0.40
41:MH:198:GLU:HA	41:MH:264:HIS:HB2	2.03	0.40
42:MI:2:ARG:NE	42:MI:242:LEU:O	2.40	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:MI:202:PHE:HE2	42:MI:378:LEU:HD13	1.87	0.40
42:MI:311:LYS:H	42:MI:382:THR:HB	1.87	0.40
41:MJ:187:LEU:HA	41:MJ:190:HIS:CE1	2.56	0.40
41:MJ:272:PRO:HG3	41:MJ:364:SER:HA	2.04	0.40
41:MJ:299:MET:HG3	41:MJ:305:PRO:HD3	2.02	0.40
42:MM:184:PRO:HA	42:MM:391:LEU:HD11	2.02	0.40
41:MN:30:ILE:HD11	41:MN:59:TYR:CD1	2.56	0.40
41:MN:101:TRP:NE1	41:MN:145:SER:O	2.55	0.40
41:MN:207:LEU:HB3	41:MN:225:LEU:HD22	2.02	0.40
41:MN:293:MET:HB2	41:MN:367:PHE:HB3	2.04	0.40
42:NA:8:HIS:HE1	42:NA:21:TRP:HE1	1.70	0.40
42:NA:341:ILE:H	42:NA:341:ILE:HG12	1.53	0.40
42:NC:250:VAL:HB	42:NC:254:GLU:OE2	2.22	0.40
41:ND:181:GLU:HB3	41:ND:182:PRO:HD3	2.03	0.40
41:NF:393:ALA:C	41:NF:395:LEU:H	2.24	0.40
41:NH:44:LEU:O	41:NH:45:GLU:C	2.60	0.40
41:NH:193:VAL:HG22	41:NH:262:ARG:HD2	2.03	0.40
41:NH:253:LEU:O	41:NH:257:MET:HB2	2.22	0.40
41:NH:356:ILE:H	41:NH:356:ILE:HG12	1.56	0.40
42:OA:12:ALA:N	45:OA:501:GTP:O2A	2.49	0.40
42:OA:22:GLU:HG2	42:OA:83:TYR:CE1	2.46	0.40
41:OB:100:ASN:O	41:OB:103:LYS:HB2	2.21	0.40
42:OE:107:HIS:HD2	42:OE:152:LEU:HD12	1.86	0.40
42:OE:121:ARG:HG3	42:OE:125:LEU:HD13	2.02	0.40
42:OE:201:ALA:HB3	42:OE:267:PHE:CD1	2.56	0.40
42:OE:216:ASN:HB3	42:OE:275:VAL:O	2.21	0.40
42:OE:240:ALA:HA	42:OE:243:ARG:HE	1.85	0.40
42:OE:393:HIS:HE1	42:OE:397:LEU:HD21	1.87	0.40
41:OF:140:GLY:CA	41:OF:181:GLU:HG3	2.52	0.40
41:OF:257:MET:HA	41:OF:312:THR:HG21	2.04	0.40
41:OJ:173:PRO:HD3	41:OJ:380:ARG:CZ	2.51	0.40
41:OJ:269:GLY:HA2	41:OJ:300:MET:HG3	2.04	0.40
41:OJ:398:TYR:C	41:OJ:400:GLY:H	2.25	0.40
41:PB:21:TRP:O	41:PB:25:SER:HB3	2.22	0.40
41:PB:36:TYR:HE2	41:PB:44:LEU:HD21	1.85	0.40
42:PC:184:PRO:HB2	42:PC:398:MET:HE1	2.03	0.40
42:PC:283:HIS:CD2	42:PC:283:HIS:H	2.39	0.40
41:PD:317:PHE:HB2	41:PD:353:VAL:HA	2.03	0.40
41:PD:389:PHE:HZ	41:PD:405:GLU:HG3	1.86	0.40
41:PF:60:VAL:HG13	41:QF:281:TYR:HD1	1.87	0.40
41:PF:139:LEU:H	41:PF:139:LEU:HG	1.75	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:PF:351:THR:O	41:PF:351:THR:OG1	2.39	0.40
42:PG:15:GLN:C	42:PG:17:GLY:H	2.24	0.40
42:PG:60:LYS:HG2	42:PG:62:VAL:HG13	2.03	0.40
42:PG:330:ALA:O	42:PG:331:ALA:C	2.58	0.40
42:PG:390:ARG:C	42:PG:392:ASP:N	2.74	0.40
41:PH:13:GLY:O	41:PH:15:GLN:N	2.55	0.40
41:PH:174:LYS:O	41:PH:176:SER:N	2.55	0.40
41:PH:276:ARG:HD2	41:PH:276:ARG:HA	1.73	0.40
42:PI:23:LEU:HD13	42:PI:23:LEU:HA	1.92	0.40
42:PI:119:LEU:HA	42:PI:119:LEU:HD13	1.79	0.40
41:PJ:41:ASP:C	41:PJ:43:GLN:N	2.75	0.40
41:PJ:50:TYR:CE2	41:PJ:237:THR:HG21	2.57	0.40
41:PJ:244:GLY:HA2	41:PJ:355:ASP:HB2	2.03	0.40
42:PK:31:GLN:C	42:PK:33:ASP:H	2.25	0.40
42:PK:230:LEU:HD12	42:PK:230:LEU:HA	1.89	0.40
42:PK:399:TYR:HD1	42:PK:399:TYR:HA	1.67	0.40
42:PK:431:ASP:O	42:PK:432:TYR:C	2.60	0.40
41:PL:130:LEU:HB3	41:PL:162:ARG:HD2	2.03	0.40
41:PL:288:GLU:O	41:PL:289:LEU:C	2.60	0.40
41:QB:19:LYS:HE3	41:QB:227:HIS:HB2	2.04	0.40
41:QB:280:GLN:HG3	41:QB:281:TYR:CD2	2.56	0.40
42:QC:30:ILE:HG21	42:QC:53:PHE:CE2	2.56	0.40
42:QC:332:ILE:HD11	42:QC:351:PHE:HD1	1.86	0.40
41:QD:318:ARG:NH2	41:QD:358:PRO:HG3	2.36	0.40
41:QD:333:VAL:HG12	41:QD:341:PHE:HZ	1.86	0.40
42:QE:229:ARG:HH11	42:QE:363:VAL:HG21	1.86	0.40
42:QG:260:VAL:HB	41:QH:397:TRP:CH2	2.57	0.40
42:QG:390:ARG:O	42:QG:394:LYS:HG2	2.21	0.40
41:QH:313:VAL:O	41:QH:349:VAL:HA	2.21	0.40
42:QI:259:LEU:O	42:QI:260:VAL:C	2.59	0.40
41:QJ:139:LEU:O	41:QJ:145:SER:HB2	2.21	0.40
41:QJ:262:ARG:HH21	41:QJ:418:LEU:H	1.70	0.40
41:QJ:267:MET:HE2	41:QJ:299:MET:HG3	2.02	0.40
41:QJ:399:THR:O	41:QJ:400:GLY:C	2.59	0.40
42:QK:65:ALA:HB3	42:QK:87:PHE:CE1	2.56	0.40
42:QK:239:THR:O	42:QK:240:ALA:C	2.60	0.40
41:QL:238:THR:HA	41:QL:241:ARG:HH21	1.86	0.40
41:QL:285:THR:HG23	41:QL:287:PRO:HD2	2.04	0.40
41:RB:95:SER:HB3	41:RB:108:GLU:OE1	2.22	0.40
41:RB:200:TYR:OH	41:RB:368:ILE:HG12	2.21	0.40
42:RC:2:ARG:O	42:RC:51:THR:HA	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:RD:358:PRO:O	41:RD:359:ARG:C	2.59	0.40
42:RE:277:SER:H	42:RE:280:LYS:HB2	1.86	0.40
41:RF:1:MET:HG3	41:RF:128:ASP:HB3	2.03	0.40
41:RF:413:SER:HA	41:RF:416:ASN:ND2	2.36	0.40
42:RG:373:ARG:NH1	42:RG:373:ARG:HG2	2.36	0.40
41:RH:180:VAL:HG13	41:RH:398:TYR:OH	2.22	0.40
42:RK:303:VAL:O	42:RK:305:CYS:N	2.54	0.40
41:RL:371:SER:OG	41:RL:372:THR:N	2.55	0.40
42:SC:311:LYS:HA	42:SC:342:GLN:HB2	2.03	0.40
42:SE:256:GLN:O	42:SE:257:THR:C	2.60	0.40
41:SF:257:MET:HE2	41:SF:257:MET:HA	2.03	0.40
41:SF:260:PHE:O	41:SF:262:ARG:N	2.52	0.40
42:SI:83:TYR:HB3	42:SI:86:LEU:HB3	2.03	0.40
42:SI:102:ASN:O	42:SI:105:ARG:N	2.54	0.40
42:SK:313:MET:HE3	42:SK:346:TRP:CH2	2.56	0.40
41:SL:16:ILE:O	41:SL:17:GLY:C	2.60	0.40
41:SL:304:ASP:HB3	41:SL:307:HIS:CE1	2.57	0.40
42:TG:138:PHE:CZ	42:TG:235:VAL:HG21	2.56	0.40
42:TI:252:LEU:HA	42:TI:255:PHE:CE2	2.57	0.40
42:TI:403:ALA:O	42:TI:404:PHE:C	2.60	0.40
41:TL:105:HIS:HD2	41:TL:106:TYR:CE2	2.39	0.40
42:TM:97:GLU:HG2	42:TM:98:ASP:H	1.86	0.40
42:TM:225:THR:O	42:TM:229:ARG:HG2	2.21	0.40
42:UG:132:LEU:O	42:UG:164:LYS:HD2	2.21	0.40
42:UG:348:PRO:HB2	41:UH:384:GLN:HG2	2.02	0.40
42:UI:395:PHE:HE2	42:UI:422:ARG:HB2	1.87	0.40
41:UJ:289:LEU:HD21	41:UJ:365:ALA:HB3	2.04	0.40
42:VC:256:GLN:O	42:VC:260:VAL:HG22	2.22	0.40
42:VE:138:PHE:CE1	42:VE:169:PHE:HD2	2.38	0.40
41:VF:250:LEU:HA	41:VF:250:LEU:HD23	1.91	0.40
42:VG:324:VAL:HG23	42:VG:326:LYS:H	1.85	0.40
42:VG:377:MET:HE2	42:VG:377:MET:HB2	1.94	0.40
41:VH:116:VAL:HA	41:VH:119:VAL:HG12	2.03	0.40
42:VI:288:VAL:HG13	42:VI:319:TYR:HE2	1.86	0.40
42:VK:402:ARG:HA	42:VK:402:ARG:HD3	1.68	0.40
41:VL:3:GLU:HA	41:VL:49:VAL:HA	2.04	0.40
42:VM:88:HIS:HB3	42:VM:91:GLN:HG3	2.03	0.40
41:WD:107:THR:O	41:WD:109:GLY:N	2.55	0.40
41:WF:7:LEU:HB2	41:WF:135:LEU:HD12	2.04	0.40
41:WF:299:MET:N	41:WF:299:MET:SD	2.94	0.40
42:WG:210:TYR:CE1	42:WG:227:LEU:HD11	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:WH:372:THR:HG21	41:WH:425:TYR:O	2.21	0.40
42:WI:269:LEU:HD13	42:WI:381:THR:HG23	2.03	0.40
41:WJ:68:LEU:HG	41:WJ:147:MET:HE2	2.04	0.40
41:WJ:226:ASN:OD1	43:WJ:501:GDP:N1	2.39	0.40
42:WM:12:ALA:HB3	42:WM:140:SER:HB2	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	489/1044 (47%)	425 (87%)	56 (12%)	8 (2%)	8	36
2	1D	130/687 (19%)	123 (95%)	5 (4%)	2 (2%)	8	37
2	1E	183/687 (27%)	174 (95%)	9 (5%)	0	100	100
2	1F	81/687 (12%)	79 (98%)	2 (2%)	0	100	100
3	1H	81/547 (15%)	78 (96%)	3 (4%)	0	100	100
3	1I	375/547 (69%)	364 (97%)	11 (3%)	0	100	100
4	1K	157/196 (80%)	135 (86%)	22 (14%)	0	100	100
4	1L	30/196 (15%)	27 (90%)	3 (10%)	0	100	100
5	1N	112/196 (57%)	101 (90%)	10 (9%)	1 (1%)	14	48
5	1O	114/196 (58%)	111 (97%)	3 (3%)	0	100	100
5	1P	116/196 (59%)	108 (93%)	8 (7%)	0	100	100
6	1R	89/101 (88%)	89 (100%)	0	0	100	100
7	1T	251/321 (78%)	227 (90%)	23 (9%)	1 (0%)	30	63
7	1U	251/321 (78%)	210 (84%)	37 (15%)	4 (2%)	8	36
8	1W	126/193 (65%)	89 (71%)	32 (25%)	5 (4%)	2	19
8	1X	182/193 (94%)	172 (94%)	10 (6%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
8	1Y	182/193 (94%)	173 (95%)	9 (5%)	0	100	100
8	1Z	182/193 (94%)	169 (93%)	13 (7%)	0	100	100
8	2A	182/193 (94%)	164 (90%)	18 (10%)	0	100	100
8	2B	182/193 (94%)	168 (92%)	14 (8%)	0	100	100
9	2D	449/877 (51%)	377 (84%)	69 (15%)	3 (1%)	19	53
9	2E	99/877 (11%)	97 (98%)	2 (2%)	0	100	100
10	2F	75/170 (44%)	68 (91%)	7 (9%)	0	100	100
10	2G	75/170 (44%)	69 (92%)	6 (8%)	0	100	100
10	2H	75/170 (44%)	65 (87%)	10 (13%)	0	100	100
11	2J	160/549 (29%)	154 (96%)	5 (3%)	1 (1%)	22	55
11	2K	292/549 (53%)	288 (99%)	4 (1%)	0	100	100
11	2L	273/549 (50%)	252 (92%)	20 (7%)	1 (0%)	30	63
11	2M	182/549 (33%)	173 (95%)	9 (5%)	0	100	100
12	2O	607/623 (97%)	531 (88%)	72 (12%)	4 (1%)	19	53
12	2P	607/623 (97%)	515 (85%)	88 (14%)	4 (1%)	19	53
12	2Q	607/623 (97%)	505 (83%)	101 (17%)	1 (0%)	44	75
13	2S	279/514 (54%)	265 (95%)	13 (5%)	1 (0%)	30	63
13	2T	197/514 (38%)	186 (94%)	9 (5%)	2 (1%)	13	45
14	2V	32/284 (11%)	30 (94%)	2 (6%)	0	100	100
14	2W	207/284 (73%)	163 (79%)	42 (20%)	2 (1%)	13	45
14	2X	202/284 (71%)	186 (92%)	13 (6%)	3 (2%)	8	37
14	2Y	161/284 (57%)	138 (86%)	21 (13%)	2 (1%)	11	42
15	3A	179/232 (77%)	142 (79%)	33 (18%)	4 (2%)	5	30
16	3C	209/309 (68%)	175 (84%)	31 (15%)	3 (1%)	9	39
16	3D	67/309 (22%)	61 (91%)	6 (9%)	0	100	100
17	3F	97/212 (46%)	86 (89%)	9 (9%)	2 (2%)	5	31
18	3H	95/1410 (7%)	88 (93%)	7 (7%)	0	100	100
19	3J	425/640 (66%)	371 (87%)	50 (12%)	4 (1%)	14	48
19	3K	437/640 (68%)	376 (86%)	58 (13%)	3 (1%)	19	53
19	3L	446/640 (70%)	386 (86%)	60 (14%)	0	100	100
20	3N	278/733 (38%)	246 (88%)	31 (11%)	1 (0%)	30	63

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
20	3O	561/733 (76%)	486 (87%)	71 (13%)	4 (1%)	19	53
20	3P	563/733 (77%)	527 (94%)	36 (6%)	0	100	100
20	3Q	280/733 (38%)	252 (90%)	25 (9%)	3 (1%)	12	44
21	3S	68/259 (26%)	63 (93%)	5 (7%)	0	100	100
21	3T	231/259 (89%)	217 (94%)	14 (6%)	0	100	100
21	3U	231/259 (89%)	214 (93%)	17 (7%)	0	100	100
21	3V	199/259 (77%)	191 (96%)	8 (4%)	0	100	100
22	3X	119/274 (43%)	109 (92%)	10 (8%)	0	100	100
22	3Y	132/274 (48%)	104 (79%)	25 (19%)	3 (2%)	5	29
22	3Z	125/274 (46%)	103 (82%)	21 (17%)	1 (1%)	16	50
22	4A	99/274 (36%)	95 (96%)	4 (4%)	0	100	100
22	4B	99/274 (36%)	91 (92%)	8 (8%)	0	100	100
22	4C	79/274 (29%)	74 (94%)	5 (6%)	0	100	100
23	4D	114/135 (84%)	100 (88%)	11 (10%)	3 (3%)	4	27
24	4F	149/495 (30%)	141 (95%)	8 (5%)	0	100	100
24	4G	333/495 (67%)	321 (96%)	11 (3%)	1 (0%)	37	68
25	4I	370/377 (98%)	346 (94%)	24 (6%)	0	100	100
25	4J	370/377 (98%)	345 (93%)	24 (6%)	1 (0%)	37	68
26	4K	130/621 (21%)	128 (98%)	2 (2%)	0	100	100
26	4L	226/621 (36%)	217 (96%)	8 (4%)	1 (0%)	30	63
26	4M	102/621 (16%)	101 (99%)	1 (1%)	0	100	100
27	4O	217/257 (84%)	202 (93%)	15 (7%)	0	100	100
27	4P	217/257 (84%)	204 (94%)	13 (6%)	0	100	100
27	4Q	217/257 (84%)	205 (94%)	12 (6%)	0	100	100
27	4R	217/257 (84%)	162 (75%)	38 (18%)	17 (8%)	1	8
27	4S	217/257 (84%)	205 (94%)	12 (6%)	0	100	100
27	4T	217/257 (84%)	197 (91%)	17 (8%)	3 (1%)	9	39
28	4V	35/136 (26%)	30 (86%)	5 (14%)	0	100	100
28	4W	77/136 (57%)	70 (91%)	6 (8%)	1 (1%)	10	40
29	4Y	94/120 (78%)	81 (86%)	12 (13%)	1 (1%)	12	44
30	5A	348/377 (92%)	324 (93%)	20 (6%)	4 (1%)	12	44

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
30	5B	14/377 (4%)	11 (79%)	3 (21%)	0	100	100
31	5D	155/169 (92%)	146 (94%)	8 (5%)	1 (1%)	22	55
31	5E	155/169 (92%)	137 (88%)	14 (9%)	4 (3%)	4	27
31	5F	157/169 (93%)	148 (94%)	9 (6%)	0	100	100
31	5G	155/169 (92%)	148 (96%)	7 (4%)	0	100	100
31	5H	155/169 (92%)	148 (96%)	6 (4%)	1 (1%)	22	55
31	5I	155/169 (92%)	149 (96%)	5 (3%)	1 (1%)	22	55
31	5J	155/169 (92%)	147 (95%)	6 (4%)	2 (1%)	10	40
32	5L	114/418 (27%)	111 (97%)	3 (3%)	0	100	100
32	5M	390/418 (93%)	373 (96%)	17 (4%)	0	100	100
32	5N	390/418 (93%)	377 (97%)	13 (3%)	0	100	100
32	5O	287/418 (69%)	243 (85%)	34 (12%)	10 (4%)	3	23
33	5Q	105/430 (24%)	100 (95%)	4 (4%)	1 (1%)	13	45
33	5R	397/430 (92%)	384 (97%)	11 (3%)	2 (0%)	25	59
33	5S	397/430 (92%)	358 (90%)	28 (7%)	11 (3%)	4	26
33	5T	302/430 (70%)	273 (90%)	24 (8%)	5 (2%)	7	35
33	5V	304/430 (71%)	281 (92%)	21 (7%)	2 (1%)	19	53
33	5W	406/430 (94%)	384 (95%)	22 (5%)	0	100	100
33	5X	406/430 (94%)	387 (95%)	18 (4%)	1 (0%)	44	75
33	5Y	103/430 (24%)	99 (96%)	4 (4%)	0	100	100
34	6A	267/490 (54%)	199 (74%)	64 (24%)	4 (2%)	8	37
34	6B	390/490 (80%)	363 (93%)	22 (6%)	5 (1%)	10	40
34	6C	391/490 (80%)	312 (80%)	68 (17%)	11 (3%)	4	26
34	6D	121/490 (25%)	92 (76%)	27 (22%)	2 (2%)	7	35
34	6E	57/490 (12%)	49 (86%)	6 (10%)	2 (4%)	3	23
34	6F	356/490 (73%)	339 (95%)	17 (5%)	0	100	100
34	6G	414/490 (84%)	404 (98%)	10 (2%)	0	100	100
34	6H	364/490 (74%)	339 (93%)	22 (6%)	3 (1%)	16	50
34	6I	61/490 (12%)	58 (95%)	3 (5%)	0	100	100
34	6J	61/490 (12%)	60 (98%)	1 (2%)	0	100	100
34	6K	365/490 (74%)	358 (98%)	7 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
34	6L	414/490 (84%)	393 (95%)	17 (4%)	4 (1%)	13	45
34	6M	359/490 (73%)	353 (98%)	6 (2%)	0	100	100
34	6N	52/490 (11%)	50 (96%)	2 (4%)	0	100	100
35	6P	176/447 (39%)	175 (99%)	1 (1%)	0	100	100
35	6Q	408/447 (91%)	398 (98%)	10 (2%)	0	100	100
35	6R	408/447 (91%)	394 (97%)	13 (3%)	1 (0%)	44	75
35	6S	250/447 (56%)	233 (93%)	14 (6%)	3 (1%)	11	42
35	6T	232/447 (52%)	224 (97%)	8 (3%)	0	100	100
35	6U	417/447 (93%)	395 (95%)	20 (5%)	2 (0%)	25	59
35	6V	433/447 (97%)	392 (90%)	33 (8%)	8 (2%)	7	34
35	6W	209/447 (47%)	188 (90%)	17 (8%)	4 (2%)	6	33
36	6Y	188/683 (28%)	161 (86%)	24 (13%)	3 (2%)	8	36
36	6Z	188/683 (28%)	171 (91%)	17 (9%)	0	100	100
37	7C	107/254 (42%)	63 (59%)	38 (36%)	6 (6%)	1	14
37	7D	76/254 (30%)	60 (79%)	13 (17%)	3 (4%)	2	20
37	7E	73/254 (29%)	53 (73%)	20 (27%)	0	100	100
37	7F	55/254 (22%)	36 (66%)	17 (31%)	2 (4%)	3	21
38	7H	73/274 (27%)	47 (64%)	22 (30%)	4 (6%)	1	14
38	7I	28/274 (10%)	24 (86%)	4 (14%)	0	100	100
39	7K	103/147 (70%)	83 (81%)	18 (18%)	2 (2%)	6	33
39	7L	44/147 (30%)	39 (89%)	4 (9%)	1 (2%)	5	29
40	7N	54/484 (11%)	45 (83%)	9 (17%)	0	100	100
41	AB	434/445 (98%)	388 (89%)	44 (10%)	2 (0%)	25	59
41	AD	434/445 (98%)	415 (96%)	19 (4%)	0	100	100
41	AF	434/445 (98%)	418 (96%)	15 (4%)	1 (0%)	44	75
41	AH	434/445 (98%)	347 (80%)	68 (16%)	19 (4%)	2	17
41	AJ	434/445 (98%)	419 (96%)	15 (4%)	0	100	100
41	AL	434/445 (98%)	350 (81%)	66 (15%)	18 (4%)	2	19
41	BB	425/445 (96%)	400 (94%)	25 (6%)	0	100	100
41	BD	425/445 (96%)	325 (76%)	83 (20%)	17 (4%)	2	19
41	BF	426/445 (96%)	411 (96%)	15 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
41	BH	425/445 (96%)	408 (96%)	15 (4%)	2 (0%)	25	59
41	BJ	425/445 (96%)	407 (96%)	18 (4%)	0	100	100
41	BL	423/445 (95%)	401 (95%)	22 (5%)	0	100	100
41	CB	424/445 (95%)	395 (93%)	29 (7%)	0	100	100
41	CD	424/445 (95%)	309 (73%)	91 (22%)	24 (6%)	1	13
41	CF	426/445 (96%)	314 (74%)	89 (21%)	23 (5%)	1	14
41	CH	425/445 (96%)	390 (92%)	33 (8%)	2 (0%)	25	59
41	CJ	426/445 (96%)	315 (74%)	85 (20%)	26 (6%)	1	12
41	CL	423/445 (95%)	383 (90%)	40 (10%)	0	100	100
41	DB	424/445 (95%)	370 (87%)	52 (12%)	2 (0%)	25	59
41	DD	424/445 (95%)	376 (89%)	46 (11%)	2 (0%)	25	59
41	DF	424/445 (95%)	365 (86%)	55 (13%)	4 (1%)	14	48
41	DH	424/445 (95%)	272 (64%)	111 (26%)	41 (10%)	0	6
41	DJ	424/445 (95%)	261 (62%)	120 (28%)	43 (10%)	0	6
41	DL	423/445 (95%)	353 (84%)	58 (14%)	12 (3%)	4	26
41	ED	424/445 (95%)	266 (63%)	121 (28%)	37 (9%)	0	7
41	EF	424/445 (95%)	377 (89%)	44 (10%)	3 (1%)	19	53
41	EH	426/445 (96%)	357 (84%)	65 (15%)	4 (1%)	14	48
41	EJ	424/445 (95%)	374 (88%)	45 (11%)	5 (1%)	11	42
41	EL	423/445 (95%)	352 (83%)	66 (16%)	5 (1%)	11	42
41	FD	425/445 (96%)	290 (68%)	101 (24%)	34 (8%)	1	8
41	FF	424/445 (95%)	379 (89%)	41 (10%)	4 (1%)	14	48
41	FH	424/445 (95%)	378 (89%)	44 (10%)	2 (0%)	25	59
41	FJ	424/445 (95%)	396 (93%)	28 (7%)	0	100	100
41	FL	423/445 (95%)	289 (68%)	103 (24%)	31 (7%)	1	9
41	GD	425/445 (96%)	321 (76%)	78 (18%)	26 (6%)	1	12
41	GF	426/445 (96%)	404 (95%)	22 (5%)	0	100	100
41	GH	426/445 (96%)	391 (92%)	35 (8%)	0	100	100
41	GJ	426/445 (96%)	321 (75%)	85 (20%)	20 (5%)	2	17
41	GL	423/445 (95%)	399 (94%)	24 (6%)	0	100	100
41	HB	424/445 (95%)	360 (85%)	59 (14%)	5 (1%)	11	42

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
41	HD	425/445 (96%)	303 (71%)	91 (21%)	31 (7%)	1	9
41	HF	426/445 (96%)	385 (90%)	39 (9%)	2 (0%)	25	59
41	HH	425/445 (96%)	384 (90%)	39 (9%)	2 (0%)	25	59
41	HJ	426/445 (96%)	310 (73%)	98 (23%)	18 (4%)	2	18
41	HL	423/445 (95%)	373 (88%)	48 (11%)	2 (0%)	25	59
41	ID	425/445 (96%)	403 (95%)	21 (5%)	1 (0%)	44	75
41	IF	426/445 (96%)	406 (95%)	20 (5%)	0	100	100
41	IH	425/445 (96%)	404 (95%)	20 (5%)	1 (0%)	44	75
41	IJ	426/445 (96%)	411 (96%)	15 (4%)	0	100	100
41	IL	424/445 (95%)	406 (96%)	18 (4%)	0	100	100
41	IN	426/445 (96%)	303 (71%)	92 (22%)	31 (7%)	1	9
41	JD	425/445 (96%)	384 (90%)	41 (10%)	0	100	100
41	JF	424/445 (95%)	403 (95%)	21 (5%)	0	100	100
41	JH	424/445 (95%)	405 (96%)	19 (4%)	0	100	100
41	JJ	424/445 (95%)	400 (94%)	24 (6%)	0	100	100
41	JL	424/445 (95%)	346 (82%)	68 (16%)	10 (2%)	5	29
41	KD	426/445 (96%)	406 (95%)	19 (4%)	1 (0%)	44	75
41	KF	425/445 (96%)	410 (96%)	15 (4%)	0	100	100
41	KH	427/445 (96%)	414 (97%)	13 (3%)	0	100	100
41	KJ	424/445 (95%)	410 (97%)	14 (3%)	0	100	100
41	KL	427/445 (96%)	407 (95%)	20 (5%)	0	100	100
41	KN	426/445 (96%)	407 (96%)	17 (4%)	2 (0%)	25	59
41	LD	425/445 (96%)	366 (86%)	51 (12%)	8 (2%)	6	33
41	LF	426/445 (96%)	411 (96%)	15 (4%)	0	100	100
41	LH	426/445 (96%)	409 (96%)	17 (4%)	0	100	100
41	LJ	426/445 (96%)	408 (96%)	18 (4%)	0	100	100
41	LL	424/445 (95%)	406 (96%)	18 (4%)	0	100	100
41	LN	426/445 (96%)	407 (96%)	19 (4%)	0	100	100
41	MD	424/445 (95%)	326 (77%)	79 (19%)	19 (4%)	2	17
41	MF	426/445 (96%)	345 (81%)	68 (16%)	13 (3%)	3	25
41	MH	426/445 (96%)	413 (97%)	13 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
41	MJ	424/445 (95%)	405 (96%)	19 (4%)	0	100	100
41	ML	424/445 (95%)	393 (93%)	30 (7%)	1 (0%)	44	75
41	MN	424/445 (95%)	328 (77%)	74 (18%)	22 (5%)	1	14
41	NB	426/445 (96%)	318 (75%)	83 (20%)	25 (6%)	1	13
41	ND	425/445 (96%)	324 (76%)	82 (19%)	19 (4%)	2	17
41	NF	425/445 (96%)	323 (76%)	77 (18%)	25 (6%)	1	13
41	NH	426/445 (96%)	316 (74%)	93 (22%)	17 (4%)	2	19
41	NJ	426/445 (96%)	382 (90%)	42 (10%)	2 (0%)	25	59
41	NL	388/445 (87%)	343 (88%)	42 (11%)	3 (1%)	16	50
41	OB	423/445 (95%)	278 (66%)	102 (24%)	43 (10%)	0	5
41	OD	422/445 (95%)	370 (88%)	51 (12%)	1 (0%)	44	75
41	OF	423/445 (95%)	368 (87%)	51 (12%)	4 (1%)	14	48
41	OH	426/445 (96%)	308 (72%)	94 (22%)	24 (6%)	1	14
41	OJ	426/445 (96%)	305 (72%)	103 (24%)	18 (4%)	2	18
41	OL	422/445 (95%)	365 (86%)	55 (13%)	2 (0%)	25	59
41	PB	425/445 (96%)	287 (68%)	108 (25%)	30 (7%)	1	9
41	PD	425/445 (96%)	306 (72%)	92 (22%)	27 (6%)	1	11
41	PF	426/445 (96%)	298 (70%)	100 (24%)	28 (7%)	1	11
41	PH	426/445 (96%)	240 (56%)	119 (28%)	67 (16%)	0	2
41	PJ	426/445 (96%)	267 (63%)	112 (26%)	47 (11%)	0	5
41	PL	423/445 (95%)	255 (60%)	123 (29%)	45 (11%)	0	5
41	QB	426/445 (96%)	350 (82%)	73 (17%)	3 (1%)	19	53
41	QD	425/445 (96%)	370 (87%)	53 (12%)	2 (0%)	25	59
41	QF	426/445 (96%)	375 (88%)	46 (11%)	5 (1%)	11	42
41	QH	426/445 (96%)	278 (65%)	115 (27%)	33 (8%)	1	8
41	QJ	426/445 (96%)	280 (66%)	100 (24%)	46 (11%)	0	5
41	QL	424/445 (95%)	258 (61%)	122 (29%)	44 (10%)	0	5
41	RB	426/445 (96%)	376 (88%)	49 (12%)	1 (0%)	44	75
41	RD	425/445 (96%)	289 (68%)	109 (26%)	27 (6%)	1	11
41	RF	426/445 (96%)	277 (65%)	117 (28%)	32 (8%)	1	9
41	RH	426/445 (96%)	361 (85%)	63 (15%)	2 (0%)	25	59

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
41	RJ	426/445 (96%)	275 (65%)	119 (28%)	32 (8%)	1	9
41	RL	424/445 (95%)	371 (88%)	48 (11%)	5 (1%)	11	42
41	SD	425/445 (96%)	377 (89%)	46 (11%)	2 (0%)	25	59
41	SF	426/445 (96%)	277 (65%)	119 (28%)	30 (7%)	1	9
41	SH	426/445 (96%)	361 (85%)	60 (14%)	5 (1%)	11	42
41	SJ	426/445 (96%)	373 (88%)	50 (12%)	3 (1%)	19	53
41	SL	424/445 (95%)	290 (68%)	102 (24%)	32 (8%)	1	9
41	TD	425/445 (96%)	367 (86%)	58 (14%)	0	100	100
41	TF	426/445 (96%)	365 (86%)	56 (13%)	5 (1%)	11	42
41	TH	426/445 (96%)	367 (86%)	51 (12%)	8 (2%)	6	33
41	TJ	426/445 (96%)	370 (87%)	54 (13%)	2 (0%)	25	59
41	TL	424/445 (95%)	363 (86%)	57 (13%)	4 (1%)	14	48
41	UD	425/445 (96%)	382 (90%)	41 (10%)	2 (0%)	25	59
41	UF	426/445 (96%)	375 (88%)	47 (11%)	4 (1%)	14	48
41	UH	426/445 (96%)	374 (88%)	49 (12%)	3 (1%)	19	53
41	UJ	426/445 (96%)	372 (87%)	53 (12%)	1 (0%)	44	75
41	UL	424/445 (95%)	378 (89%)	43 (10%)	3 (1%)	19	53
41	VD	425/445 (96%)	392 (92%)	33 (8%)	0	100	100
41	VF	425/445 (96%)	384 (90%)	39 (9%)	2 (0%)	25	59
41	VH	426/445 (96%)	386 (91%)	40 (9%)	0	100	100
41	VJ	426/445 (96%)	380 (89%)	42 (10%)	4 (1%)	14	48
41	VL	424/445 (95%)	390 (92%)	33 (8%)	1 (0%)	44	75
41	WD	425/445 (96%)	377 (89%)	45 (11%)	3 (1%)	19	53
41	WF	424/445 (95%)	341 (80%)	71 (17%)	12 (3%)	4	26
41	WH	424/445 (95%)	353 (83%)	58 (14%)	13 (3%)	3	25
41	WJ	424/445 (95%)	385 (91%)	35 (8%)	4 (1%)	14	48
41	WL	424/445 (95%)	379 (89%)	41 (10%)	4 (1%)	14	48
41	WN	424/445 (95%)	378 (89%)	44 (10%)	2 (0%)	25	59
42	AC	438/452 (97%)	424 (97%)	13 (3%)	1 (0%)	44	75
42	AE	438/452 (97%)	414 (94%)	24 (6%)	0	100	100
42	AG	438/452 (97%)	409 (93%)	26 (6%)	3 (1%)	19	53

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
42	AI	438/452 (97%)	367 (84%)	60 (14%)	11 (2%)	4	28
42	AK	438/452 (97%)	346 (79%)	75 (17%)	17 (4%)	2	20
42	BC	438/452 (97%)	409 (93%)	29 (7%)	0	100	100
42	BE	429/452 (95%)	414 (96%)	15 (4%)	0	100	100
42	BG	438/452 (97%)	405 (92%)	32 (7%)	1 (0%)	44	75
42	BI	426/452 (94%)	323 (76%)	72 (17%)	31 (7%)	1	9
42	BK	437/452 (97%)	408 (93%)	29 (7%)	0	100	100
42	CC	436/452 (96%)	289 (66%)	110 (25%)	37 (8%)	0	7
42	CE	436/452 (96%)	417 (96%)	19 (4%)	0	100	100
42	CG	437/452 (97%)	303 (69%)	105 (24%)	29 (7%)	1	11
42	CI	437/452 (97%)	409 (94%)	27 (6%)	1 (0%)	44	75
42	CK	437/452 (97%)	393 (90%)	43 (10%)	1 (0%)	44	75
42	CM	437/452 (97%)	390 (89%)	42 (10%)	5 (1%)	12	44
42	DC	425/452 (94%)	370 (87%)	52 (12%)	3 (1%)	19	53
42	DE	426/452 (94%)	366 (86%)	57 (13%)	3 (1%)	19	53
42	DG	427/452 (94%)	366 (86%)	59 (14%)	2 (0%)	25	59
42	DI	425/452 (94%)	379 (89%)	41 (10%)	5 (1%)	11	42
42	DK	426/452 (94%)	265 (62%)	120 (28%)	41 (10%)	0	6
42	DM	426/452 (94%)	357 (84%)	63 (15%)	6 (1%)	9	39
42	EC	437/452 (97%)	387 (89%)	48 (11%)	2 (0%)	25	59
42	EE	439/452 (97%)	299 (68%)	107 (24%)	33 (8%)	1	9
42	EG	430/452 (95%)	277 (64%)	112 (26%)	41 (10%)	0	6
42	EI	434/452 (96%)	384 (88%)	50 (12%)	0	100	100
42	EK	438/452 (97%)	274 (63%)	121 (28%)	43 (10%)	0	6
42	EM	424/452 (94%)	264 (62%)	123 (29%)	37 (9%)	0	7
42	FC	427/452 (94%)	276 (65%)	122 (29%)	29 (7%)	1	10
42	FE	421/452 (93%)	378 (90%)	42 (10%)	1 (0%)	44	75
42	FG	422/452 (93%)	386 (92%)	36 (8%)	0	100	100
42	FI	423/452 (94%)	370 (88%)	51 (12%)	2 (0%)	25	59
42	FK	420/452 (93%)	274 (65%)	107 (26%)	39 (9%)	0	6
42	FM	425/452 (94%)	382 (90%)	42 (10%)	1 (0%)	44	75

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
42	GC	438/452 (97%)	417 (95%)	21 (5%)	0	100	100
42	GE	426/452 (94%)	406 (95%)	19 (4%)	1 (0%)	44	75
42	GG	429/452 (95%)	411 (96%)	18 (4%)	0	100	100
42	GI	425/452 (94%)	387 (91%)	37 (9%)	1 (0%)	44	75
42	GK	425/452 (94%)	395 (93%)	29 (7%)	1 (0%)	44	75
42	GM	437/452 (97%)	322 (74%)	83 (19%)	32 (7%)	1	9
42	HC	423/452 (94%)	282 (67%)	106 (25%)	35 (8%)	0	7
42	HE	426/452 (94%)	388 (91%)	35 (8%)	3 (1%)	19	53
42	HG	426/452 (94%)	317 (74%)	81 (19%)	28 (7%)	1	11
42	HI	426/452 (94%)	327 (77%)	80 (19%)	19 (4%)	2	17
42	HK	427/452 (94%)	389 (91%)	37 (9%)	1 (0%)	44	75
42	HM	425/452 (94%)	313 (74%)	88 (21%)	24 (6%)	1	14
42	IC	425/452 (94%)	405 (95%)	20 (5%)	0	100	100
42	IE	428/452 (95%)	326 (76%)	82 (19%)	20 (5%)	2	17
42	IG	438/452 (97%)	409 (93%)	28 (6%)	1 (0%)	44	75
42	II	428/452 (95%)	404 (94%)	24 (6%)	0	100	100
42	IK	438/452 (97%)	404 (92%)	33 (8%)	1 (0%)	44	75
42	IM	427/452 (94%)	402 (94%)	25 (6%)	0	100	100
42	JC	428/452 (95%)	402 (94%)	26 (6%)	0	100	100
42	JE	426/452 (94%)	402 (94%)	23 (5%)	1 (0%)	44	75
42	JG	424/452 (94%)	406 (96%)	18 (4%)	0	100	100
42	JI	425/452 (94%)	393 (92%)	32 (8%)	0	100	100
42	JK	438/452 (97%)	326 (74%)	82 (19%)	30 (7%)	1	10
42	JM	426/452 (94%)	332 (78%)	74 (17%)	20 (5%)	2	17
42	KC	428/452 (95%)	406 (95%)	22 (5%)	0	100	100
42	KE	427/452 (94%)	404 (95%)	23 (5%)	0	100	100
42	KG	426/452 (94%)	411 (96%)	15 (4%)	0	100	100
42	KI	424/452 (94%)	408 (96%)	16 (4%)	0	100	100
42	KK	426/452 (94%)	407 (96%)	19 (4%)	0	100	100
42	KM	428/452 (95%)	360 (84%)	57 (13%)	11 (3%)	4	27
42	LC	429/452 (95%)	417 (97%)	12 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
42	LE	438/452 (97%)	416 (95%)	22 (5%)	0	100	100
42	LG	429/452 (95%)	416 (97%)	13 (3%)	0	100	100
42	LI	430/452 (95%)	414 (96%)	15 (4%)	1 (0%)	44	75
42	LK	431/452 (95%)	419 (97%)	12 (3%)	0	100	100
42	LM	427/452 (94%)	407 (95%)	20 (5%)	0	100	100
42	MC	437/452 (97%)	410 (94%)	25 (6%)	2 (0%)	25	59
42	ME	425/452 (94%)	404 (95%)	21 (5%)	0	100	100
42	MG	426/452 (94%)	348 (82%)	69 (16%)	9 (2%)	5	31
42	MI	427/452 (94%)	402 (94%)	25 (6%)	0	100	100
42	MK	438/452 (97%)	394 (90%)	42 (10%)	2 (0%)	25	59
42	MM	427/452 (94%)	392 (92%)	35 (8%)	0	100	100
42	NA	426/452 (94%)	324 (76%)	76 (18%)	26 (6%)	1	12
42	NC	425/452 (94%)	295 (69%)	94 (22%)	36 (8%)	0	7
42	NE	426/452 (94%)	373 (88%)	48 (11%)	5 (1%)	11	42
42	NG	428/452 (95%)	316 (74%)	88 (21%)	24 (6%)	1	14
42	NI	428/452 (95%)	318 (74%)	87 (20%)	23 (5%)	1	14
42	NK	426/452 (94%)	292 (68%)	105 (25%)	29 (7%)	1	10
42	OA	424/452 (94%)	362 (85%)	62 (15%)	0	100	100
42	OC	425/452 (94%)	370 (87%)	52 (12%)	3 (1%)	19	53
42	OE	429/452 (95%)	372 (87%)	55 (13%)	2 (0%)	25	59
42	OG	429/452 (95%)	309 (72%)	99 (23%)	21 (5%)	2	16
42	OI	428/452 (95%)	382 (89%)	45 (10%)	1 (0%)	44	75
42	OK	427/452 (94%)	366 (86%)	60 (14%)	1 (0%)	44	75
42	PA	358/452 (79%)	230 (64%)	101 (28%)	27 (8%)	1	9
42	PC	428/452 (95%)	280 (65%)	108 (25%)	40 (9%)	0	6
42	PE	427/452 (94%)	275 (64%)	112 (26%)	40 (9%)	0	6
42	PG	426/452 (94%)	250 (59%)	122 (29%)	54 (13%)	0	3
42	PI	423/452 (94%)	236 (56%)	131 (31%)	56 (13%)	0	3
42	PK	426/452 (94%)	301 (71%)	103 (24%)	22 (5%)	1	14
42	QC	426/452 (94%)	365 (86%)	59 (14%)	2 (0%)	25	59
42	QE	426/452 (94%)	357 (84%)	68 (16%)	1 (0%)	44	75

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
42	QG	427/452 (94%)	351 (82%)	75 (18%)	1 (0%)	44	75
42	QI	425/452 (94%)	279 (66%)	120 (28%)	26 (6%)	1	12
42	QK	427/452 (94%)	285 (67%)	115 (27%)	27 (6%)	1	12
42	RC	428/452 (95%)	366 (86%)	60 (14%)	2 (0%)	25	59
42	RE	424/452 (94%)	366 (86%)	56 (13%)	2 (0%)	25	59
42	RG	426/452 (94%)	363 (85%)	61 (14%)	2 (0%)	25	59
42	RI	427/452 (94%)	368 (86%)	55 (13%)	4 (1%)	14	48
42	RK	427/452 (94%)	367 (86%)	56 (13%)	4 (1%)	14	48
42	SC	426/452 (94%)	367 (86%)	57 (13%)	2 (0%)	25	59
42	SE	427/452 (94%)	291 (68%)	98 (23%)	38 (9%)	0	7
42	SG	427/452 (94%)	364 (85%)	62 (14%)	1 (0%)	44	75
42	SI	421/452 (93%)	274 (65%)	118 (28%)	29 (7%)	1	10
42	SK	428/452 (95%)	369 (86%)	57 (13%)	2 (0%)	25	59
42	SM	427/452 (94%)	365 (86%)	60 (14%)	2 (0%)	25	59
42	TC	426/452 (94%)	369 (87%)	53 (12%)	4 (1%)	14	48
42	TE	428/452 (95%)	364 (85%)	60 (14%)	4 (1%)	14	48
42	TG	426/452 (94%)	348 (82%)	77 (18%)	1 (0%)	44	75
42	TI	426/452 (94%)	286 (67%)	113 (26%)	27 (6%)	1	12
42	TK	428/452 (95%)	303 (71%)	96 (22%)	29 (7%)	1	10
42	TM	426/452 (94%)	339 (80%)	82 (19%)	5 (1%)	11	42
42	UC	429/452 (95%)	307 (72%)	99 (23%)	23 (5%)	1	14
42	UE	428/452 (95%)	366 (86%)	59 (14%)	3 (1%)	19	53
42	UG	429/452 (95%)	368 (86%)	57 (13%)	4 (1%)	14	48
42	UI	429/452 (95%)	382 (89%)	42 (10%)	5 (1%)	11	42
42	UK	429/452 (95%)	373 (87%)	54 (13%)	2 (0%)	25	59
42	UM	427/452 (94%)	380 (89%)	44 (10%)	3 (1%)	19	53
42	VC	438/452 (97%)	399 (91%)	38 (9%)	1 (0%)	44	75
42	VE	429/452 (95%)	397 (92%)	30 (7%)	2 (0%)	25	59
42	VG	438/452 (97%)	393 (90%)	44 (10%)	1 (0%)	44	75
42	VI	429/452 (95%)	391 (91%)	38 (9%)	0	100	100
42	VK	438/452 (97%)	337 (77%)	79 (18%)	22 (5%)	1	15

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
42	VM	426/452 (94%)	389 (91%)	37 (9%)	0	100	100
42	WC	438/452 (97%)	393 (90%)	45 (10%)	0	100	100
42	WE	427/452 (94%)	341 (80%)	69 (16%)	17 (4%)	2	19
42	WG	437/452 (97%)	400 (92%)	35 (8%)	2 (0%)	25	59
42	WI	427/452 (94%)	343 (80%)	62 (14%)	22 (5%)	1	14
42	WK	436/452 (96%)	390 (89%)	44 (10%)	2 (0%)	25	59
42	WM	427/452 (94%)	402 (94%)	23 (5%)	2 (0%)	25	59
All	All	141324/170864 (83%)	120912 (86%)	17406 (12%)	3006 (2%)	8	31

All (3006) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	1A	619	SER
1	1A	807	VAL
1	1A	850	PRO
2	1D	146	VAL
5	1N	86	ALA
7	1T	256	ARG
12	2O	376	PRO
13	2S	163	GLU
14	2W	28	ILE
15	3A	84	SER
15	3A	102	LEU
15	3A	213	SER
16	3C	43	ASN
19	3J	255	MET
19	3J	474	LYS
19	3J	475	PRO
19	3K	434	LYS
19	3K	480	GLU
20	3O	244	ASP
23	4D	39	VAL
23	4D	76	GLN
23	4D	87	THR
26	4L	133	GLU
27	4R	49	LYS
27	4R	58	SER
30	5A	268	VAL
31	5E	127	SER
31	5E	128	CYS

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Mol	Chain	Res	Type
32	5O	196	PRO
32	5O	210	ASN
33	5R	326	ASN
33	5S	194	LEU
33	5T	128	VAL
34	6C	281	VAL
34	6E	408	ASN
34	6H	472	LYS
34	6H	478	ARG
35	6S	169	ARG
35	6U	244	SER
35	6V	165	PRO
35	6V	166	ASP
36	6Y	91	LEU
36	6Y	96	ASP
37	7C	153	ILE
37	7C	202	MET
37	7D	29	LYS
37	7F	72	VAL
39	7L	53	ILE
41	AH	80	PRO
41	AH	90	PHE
42	AI	100	ALA
42	AK	349	THR
41	AL	346	PRO
41	AL	392	LYS
41	BD	139	LEU
41	BD	174	LYS
41	BD	346	PRO
41	BH	173	PRO
41	BH	174	LYS
42	BI	261	PRO
42	CC	202	PHE
42	CC	402	ARG
42	CC	413	MET
41	CD	99	ASN
41	CD	195	ASN
41	CD	246	LEU
41	CD	259	PRO
41	CD	346	PRO
41	CD	361	LEU
41	CF	346	PRO

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Mol	Chain	Res	Type
41	CF	394	PHE
42	CG	38	SER
42	CG	72	PRO
42	CG	219	ILE
42	CG	247	ALA
42	CG	261	PRO
42	CG	402	ARG
42	CI	40	LYS
41	CJ	392	LYS
41	DB	143	THR
42	DC	273	ALA
41	DD	174	LYS
41	DD	218	THR
42	DE	91	GLN
41	DF	259	PRO
41	DF	394	PHE
42	DG	113	GLU
41	DH	2	ARG
41	DH	69	GLU
41	DH	82	GLY
41	DH	129	CYS
41	DH	228	LEU
41	DH	262	ARG
41	DH	282	ARG
41	DH	322	SER
41	DH	323	MET
41	DJ	82	GLY
41	DJ	110	ALA
41	DJ	173	PRO
41	DJ	246	LEU
41	DJ	303	CYS
41	DJ	403	MET
42	DK	29	GLY
42	DK	159	VAL
42	DK	160	ASP
42	DK	177	VAL
42	DK	261	PRO
42	DK	265	ILE
41	DL	80	PRO
41	DL	90	PHE
41	DL	394	PHE
42	EC	110	ILE

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Mol	Chain	Res	Type
41	ED	32	PRO
41	ED	163	ILE
41	ED	173	PRO
41	ED	174	LYS
41	ED	346	PRO
42	EE	101	ASN
42	EE	165	SER
42	EE	258	ASN
42	EE	278	ALA
42	EE	436	GLY
41	EF	110	ALA
42	EG	37	PRO
42	EG	73	THR
42	EG	99	ALA
42	EG	100	ALA
42	EG	165	SER
42	EG	173	PRO
42	EG	225	THR
42	EG	402	ARG
41	EH	180	VAL
41	EH	276	ARG
41	EH	286	VAL
41	EJ	68	LEU
42	EK	100	ALA
42	EK	199	ASP
42	EK	275	VAL
42	EK	303	VAL
42	EK	341	ILE
42	EK	416	GLY
41	EL	392	LYS
42	EM	110	ILE
42	EM	111	GLY
42	EM	112	LYS
42	EM	113	GLU
42	EM	218	ASP
42	EM	302	MET
42	EM	303	VAL
42	EM	403	ALA
42	FC	67	PHE
42	FC	149	PHE
42	FC	163	LYS
42	FC	176	GLN

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Mol	Chain	Res	Type
42	FC	261	PRO
42	FC	288	VAL
41	FD	49	VAL
41	FD	71	GLY
41	FD	131	GLN
41	FD	346	PRO
41	FF	337	ASN
42	FK	32	PRO
42	FK	101	ASN
42	FK	175	PRO
42	FK	202	PHE
41	FL	80	PRO
41	FL	81	PHE
41	FL	139	LEU
41	FL	336	LYS
41	GD	42	LEU
41	GD	109	GLY
41	GD	394	PHE
41	GJ	198	GLU
41	GJ	259	PRO
41	GJ	346	PRO
41	GJ	394	PHE
42	GM	281	ALA
42	GM	286	LEU
42	GM	350	GLY
41	HB	45	GLU
41	HB	196	THR
42	HC	72	PRO
42	HC	74	VAL
42	HC	408	TYR
41	HD	32	PRO
41	HD	45	GLU
41	HD	80	PRO
41	HF	108	GLU
42	HG	163	LYS
42	HG	175	PRO
42	HG	198	SER
41	HH	306	ARG
42	HI	101	ASN
42	HI	218	ASP
42	HI	281	ALA
41	HJ	45	GLU

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Mol	Chain	Res	Type
41	HJ	108	GLU
41	HJ	160	PRO
41	HJ	250	LEU
42	HM	49	PHE
42	HM	50	ASN
42	HM	58	ALA
42	HM	163	LYS
42	HM	261	PRO
42	HM	286	LEU
42	IE	30	ILE
42	IE	73	THR
42	IE	402	ARG
41	IN	261	PRO
41	IN	262	ARG
41	IN	263	LEU
41	IN	358	PRO
42	JE	30	ILE
42	JK	220	GLU
42	JM	73	THR
42	KM	49	PHE
42	MC	273	ALA
41	MD	346	PRO
41	MD	392	LYS
41	MF	80	PRO
42	MK	273	ALA
42	MK	323	VAL
41	MN	160	PRO
41	MN	216	LYS
41	MN	243	PRO
41	MN	373	ALA
41	MN	392	LYS
42	NA	177	VAL
42	NA	218	ASP
42	NA	219	ILE
42	NA	302	MET
42	NC	72	PRO
42	NC	74	VAL
42	NC	97	GLU
42	NC	141	PHE
42	NC	221	ARG
42	NC	279	GLU
42	NC	283	HIS

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Mol	Chain	Res	Type
42	NC	402	ARG
41	ND	108	GLU
41	ND	346	PRO
42	NE	30	ILE
42	NE	90	GLU
42	NE	282	TYR
41	NF	139	LEU
41	NF	346	PRO
41	NH	108	GLU
41	NH	139	LEU
42	NI	33	ASP
42	NI	110	ILE
42	NI	402	ARG
42	NK	69	ASP
42	NK	162	GLY
42	NK	261	PRO
41	OB	139	LEU
41	OB	145	SER
41	OB	175	VAL
41	OF	195	ASN
42	OG	101	ASN
42	OG	404	PHE
41	OH	2	ARG
41	OH	99	ASN
42	PA	85	GLN
42	PA	219	ILE
42	PA	300	ASN
41	PB	58	LYS
41	PB	173	PRO
41	PB	238	THR
41	PB	259	PRO
41	PB	283	ALA
41	PB	341	PHE
42	PC	137	ILE
42	PC	142	GLY
42	PC	221	ARG
42	PC	222	PRO
42	PC	351	PHE
42	PC	402	ARG
41	PD	392	LYS
42	PE	58	ALA
42	PE	100	ALA

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Mol	Chain	Res	Type
42	PE	112	LYS
42	PE	261	PRO
42	PE	275	VAL
42	PE	283	HIS
42	PE	438	ASP
41	PF	175	VAL
41	PF	238	THR
41	PF	338	SER
41	PF	393	ALA
42	PG	60	LYS
42	PG	98	ASP
42	PG	110	ILE
42	PG	270	ALA
42	PG	273	ALA
42	PG	277	SER
42	PG	283	HIS
42	PG	299	ALA
42	PG	300	ASN
42	PG	340	THR
42	PG	369	ALA
42	PG	398	MET
42	PG	403	ALA
42	PG	405	VAL
41	PH	2	ARG
41	PH	33	THR
41	PH	42	LEU
41	PH	49	VAL
41	PH	174	LYS
41	PH	175	VAL
41	PH	236	VAL
41	PH	237	THR
41	PH	238	THR
41	PH	261	PRO
41	PH	271	ALA
41	PH	328	GLU
41	PH	339	SER
41	PH	346	PRO
41	PH	401	GLU
42	PI	33	ASP
42	PI	130	THR
42	PI	161	TYR
42	PI	167	LEU

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Mol	Chain	Res	Type
42	PI	175	PRO
42	PI	241	SER
42	PI	254	GLU
42	PI	261	PRO
42	PI	322	ASP
42	PI	340	THR
41	PJ	2	ARG
41	PJ	173	PRO
41	PJ	175	VAL
41	PJ	238	THR
41	PJ	296	ALA
41	PJ	297	LYS
41	PJ	303	CYS
41	PJ	338	SER
41	PJ	392	LYS
41	PJ	394	PHE
41	PL	45	GLU
41	PL	49	VAL
41	PL	59	TYR
41	PL	174	LYS
41	PL	238	THR
41	PL	259	PRO
41	PL	373	ALA
41	PL	393	ALA
41	QB	89	ASN
41	QB	143	THR
42	QC	30	ILE
41	QF	394	PHE
41	QH	49	VAL
41	QH	80	PRO
41	QH	89	ASN
41	QH	90	PHE
41	QH	193	VAL
42	QI	142	GLY
42	QI	241	SER
42	QI	261	PRO
42	QI	298	PRO
42	QI	299	ALA
41	QJ	29	GLY
41	QJ	298	ASN
42	QK	241	SER
42	QK	261	PRO

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Mol	Chain	Res	Type
42	QK	298	PRO
42	QK	364	PRO
41	QL	107	THR
41	QL	193	VAL
41	QL	218	THR
41	QL	239	CYS
41	QL	250	LEU
41	QL	283	ALA
41	QL	324	LYS
41	QL	326	VAL
41	RB	336	LYS
42	RC	84	ARG
41	RD	163	ILE
42	RE	278	ALA
41	RF	80	PRO
41	RF	113	VAL
41	RF	143	THR
41	RF	163	ILE
42	RG	368	LEU
41	RH	108	GLU
42	RI	177	VAL
41	RJ	108	GLU
41	RJ	236	VAL
41	RJ	392	LYS
42	RK	112	LYS
42	RK	273	ALA
42	RK	304	LYS
41	RL	349	VAL
42	SC	70	LEU
42	SE	48	SER
42	SE	286	LEU
42	SE	348	PRO
42	SE	349	THR
42	SE	403	ALA
41	SF	80	PRO
41	SF	346	PRO
41	SF	393	ALA
41	SF	406	MET
41	SH	143	THR
42	SI	176	GLN
42	SK	273	ALA
41	SL	299	MET

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Mol	Chain	Res	Type
41	SL	393	ALA
42	TC	65	ALA
42	TE	349	THR
42	TE	404	PHE
41	TF	195	ASN
41	TF	427	ASP
41	TH	394	PHE
41	TH	396	HIS
42	TI	58	ALA
42	TI	103	TYR
42	TI	200	CYS
42	TI	240	ALA
42	TK	33	ASP
42	TK	72	PRO
42	TK	286	LEU
42	TK	348	PRO
42	UC	261	PRO
42	UC	286	LEU
42	UG	50	ASN
41	UH	108	GLU
42	UI	224	TYR
42	UK	33	ASP
41	UL	276	ARG
42	UM	74	VAL
42	VE	30	ILE
41	VF	262	ARG
42	VK	221	ARG
42	VK	402	ARG
41	WD	279	GLN
41	WF	98	GLY
42	WG	219	ILE
41	WH	346	PRO
41	WH	394	PHE
42	WI	58	ALA
42	WI	141	PHE
42	WI	413	MET
42	WK	103	TYR
1	1A	605	VAL
1	1A	713	HIS
1	1A	716	LEU
1	1A	744	ILE
2	1D	177	ARG

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Mol	Chain	Res	Type
7	1U	82	ALA
8	1W	70	GLY
13	2T	428	GLU
14	2X	135	ALA
17	3F	87	VAL
19	3K	474	LYS
20	3O	492	GLU
20	3O	665	SER
24	4G	472	GLU
25	4J	315	GLN
27	4R	40	GLU
27	4R	137	HIS
27	4R	149	LEU
27	4R	208	GLY
27	4R	220	ASN
30	5A	134	THR
31	5E	140	SER
32	5O	204	VAL
33	5S	78	LEU
33	5S	192	LEU
33	5T	326	ASN
33	5T	329	LEU
34	6B	411	LEU
34	6C	207	GLY
34	6C	208	ILE
34	6L	470	GLN
34	6L	472	LYS
34	6L	473	CYS
35	6V	39	SER
35	6V	365	ASN
36	6Y	99	PHE
37	7C	156	VAL
38	7H	161	ARG
39	7K	133	ILE
41	AB	179	VAL
42	AG	38	SER
42	AG	57	GLY
41	AH	98	GLY
41	AH	257	MET
42	AI	216	ASN
42	AI	265	ILE
42	AI	273	ALA

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Mol	Chain	Res	Type
42	AK	98	ASP
42	AK	261	PRO
42	AK	286	LEU
41	AL	80	PRO
41	AL	177	ASP
41	AL	216	LYS
41	AL	259	PRO
41	AL	262	ARG
41	BD	29	GLY
41	BD	173	PRO
41	BD	259	PRO
41	BD	263	LEU
41	BD	271	ALA
42	BI	60	LYS
42	BI	148	GLY
42	BI	162	GLY
42	BI	265	ILE
42	BI	413	MET
42	CC	85	GLN
42	CC	160	ASP
42	CC	163	LYS
42	CC	261	PRO
42	CC	286	LEU
42	CC	349	THR
42	CC	410	GLY
41	CD	98	GLY
41	CD	175	VAL
41	CD	261	PRO
41	CD	303	CYS
41	CD	392	LYS
41	CF	173	PRO
41	CF	198	GLU
41	CF	259	PRO
41	CF	302	ALA
41	CF	317	PHE
41	CF	392	LYS
42	CG	101	ASN
42	CG	160	ASP
42	CG	216	ASN
42	CG	286	LEU
42	CG	320	ARG
42	CG	349	THR

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Mol	Chain	Res	Type
42	CG	404	PHE
41	CJ	195	ASN
41	CJ	241	ARG
41	CJ	263	LEU
41	CJ	271	ALA
41	CJ	338	SER
42	CM	110	ILE
41	DH	80	PRO
41	DH	130	LEU
41	DH	245	GLN
41	DH	320	ARG
41	DH	337	ASN
41	DH	392	LYS
41	DH	393	ALA
41	DJ	2	ARG
41	DJ	59	TYR
41	DJ	102	ALA
41	DJ	128	ASP
41	DJ	259	PRO
41	DJ	263	LEU
41	DJ	337	ASN
41	DJ	392	LYS
41	DJ	393	ALA
42	DK	51	THR
42	DK	60	LYS
42	DK	99	ALA
42	DK	101	ASN
42	DK	175	PRO
42	DK	214	ARG
42	DK	217	LEU
42	DK	219	ILE
42	DK	263	PRO
42	DK	303	VAL
42	DK	305	CYS
42	DK	323	VAL
41	DL	173	PRO
42	DM	338	LYS
41	ED	71	GLY
41	ED	99	ASN
41	ED	110	ALA
41	ED	180	VAL
41	ED	197	ASP

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Mol	Chain	Res	Type
41	ED	215	LEU
41	ED	255	VAL
41	ED	259	PRO
41	ED	262	ARG
41	ED	355	ASP
41	ED	377	LEU
41	ED	392	LYS
41	ED	404	ASP
41	ED	405	GLU
42	EE	5	ILE
42	EE	112	LYS
42	EE	142	GLY
42	EE	214	ARG
42	EE	259	LEU
42	EE	314	ALA
42	EE	349	THR
42	EE	435	VAL
41	EF	50	TYR
42	EG	11	GLN
42	EG	38	SER
42	EG	86	LEU
42	EG	142	GLY
42	EG	162	GLY
42	EG	257	THR
42	EG	314	ALA
42	EG	349	THR
41	EJ	171	PRO
41	EJ	205	GLU
42	EK	45	GLY
42	EK	87	PHE
42	EK	89	PRO
42	EK	101	ASN
42	EK	132	LEU
42	EK	136	LEU
42	EK	163	LYS
42	EK	165	SER
42	EK	248	LEU
42	EK	339	ARG
42	EK	340	THR
42	EK	417	GLU
42	EM	91	GLN
42	EM	92	LEU

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Mol	Chain	Res	Type
42	EM	164	LYS
42	EM	165	SER
42	EM	175	PRO
42	EM	202	PHE
42	EM	259	LEU
42	EM	263	PRO
42	EM	264	ARG
42	EM	312	TYR
42	EM	343	PHE
42	EM	367	ASP
42	FC	162	GLY
42	FC	278	ALA
42	FC	285	GLN
42	FC	304	LYS
41	FD	57	GLY
41	FD	70	PRO
41	FD	77	ARG
41	FD	78	SER
41	FD	98	GLY
41	FD	99	ASN
41	FD	271	ALA
41	FD	298	ASN
41	FD	337	ASN
41	FD	349	VAL
41	FD	358	PRO
41	FD	392	LYS
41	FF	336	LYS
41	FH	110	ALA
42	FI	145	THR
42	FI	281	ALA
42	FK	67	PHE
42	FK	100	ALA
42	FK	168	GLU
42	FK	170	SER
42	FK	216	ASN
42	FK	264	ARG
42	FK	313	MET
42	FK	402	ARG
42	FK	413	MET
42	FK	438	ASP
41	FL	49	VAL
41	FL	98	GLY

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Mol	Chain	Res	Type
41	FL	105	HIS
41	FL	259	PRO
41	FL	271	ALA
41	FL	392	LYS
41	FL	393	ALA
42	FM	273	ALA
41	GD	43	GLN
41	GD	80	PRO
41	GD	98	GLY
41	GD	99	ASN
41	GD	140	GLY
41	GD	174	LYS
41	GD	259	PRO
42	GI	350	GLY
41	GJ	80	PRO
41	GJ	94	GLN
41	GJ	271	ALA
42	GK	224	TYR
42	GM	35	GLN
42	GM	110	ILE
42	GM	111	GLY
42	GM	162	GLY
42	GM	163	LYS
42	GM	164	LYS
42	GM	177	VAL
42	GM	216	ASN
42	GM	261	PRO
42	GM	264	ARG
41	HB	108	GLU
42	HC	59	GLY
42	HC	66	VAL
42	HC	69	ASP
42	HC	83	TYR
42	HC	96	LYS
42	HC	175	PRO
42	HC	247	ALA
42	HC	263	PRO
42	HC	265	ILE
42	HC	320	ARG
42	HC	409	VAL
42	HC	410	GLY
41	HD	8	GLN

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Mol	Chain	Res	Type
41	HD	81	PHE
41	HD	98	GLY
41	HD	99	ASN
41	HD	174	LYS
41	HD	263	LEU
41	HD	298	ASN
41	HD	349	VAL
41	HD	368	ILE
41	HD	401	GLU
41	HD	402	GLY
42	HE	196	GLU
42	HG	101	ASN
42	HG	160	ASP
42	HG	164	LYS
42	HG	214	ARG
42	HG	247	ALA
42	HG	304	LYS
42	HG	312	TYR
42	HG	402	ARG
42	HI	52	PHE
42	HI	161	TYR
42	HI	261	PRO
42	HI	263	PRO
42	HI	304	LYS
41	HJ	80	PRO
41	HJ	161	ASP
41	HJ	337	ASN
41	HJ	346	PRO
41	HL	393	ALA
41	HL	394	PHE
42	HM	57	GLY
42	HM	175	PRO
42	HM	193	THR
42	HM	258	ASN
42	HM	349	THR
42	HM	437	MET
42	IE	72	PRO
42	IE	100	ALA
42	IE	175	PRO
42	IE	261	PRO
42	IE	412	GLY
42	IG	39	ASP

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Mol	Chain	Res	Type
42	IK	38	SER
41	IN	146	GLY
41	IN	183	TYR
41	IN	215	LEU
41	IN	216	LYS
41	IN	307	HIS
41	IN	347	ASN
41	IN	353	VAL
41	IN	392	LYS
41	IN	393	ALA
42	JK	37	PRO
42	JK	38	SER
42	JK	59	GLY
42	JK	61	HIS
42	JK	114	LEU
42	JK	163	LYS
42	JK	247	ALA
42	JK	264	ARG
42	JK	282	TYR
41	JL	302	ALA
42	JM	2	ARG
42	JM	29	GLY
42	JM	72	PRO
42	JM	86	LEU
42	JM	216	ASN
42	KM	48	SER
41	KN	394	PHE
41	LD	71	GLY
42	MC	110	ILE
41	MD	108	GLU
41	MD	142	GLY
41	MD	259	PRO
41	MD	261	PRO
41	MD	322	SER
41	MD	336	LYS
41	MF	160	PRO
41	MF	284	LEU
41	MF	393	ALA
42	MG	261	PRO
41	ML	271	ALA
41	MN	142	GLY
41	MN	320	ARG

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Mol	Chain	Res	Type
41	MN	346	PRO
41	MN	393	ALA
42	NA	66	VAL
42	NA	113	GLU
42	NA	261	PRO
42	NA	281	ALA
42	NA	300	ASN
42	NA	309	HIS
42	NA	349	THR
41	NB	58	LYS
41	NB	71	GLY
41	NB	98	GLY
41	NB	175	VAL
41	NB	259	PRO
41	NB	346	PRO
41	NB	393	ALA
42	NC	73	THR
42	NC	87	PHE
42	NC	144	GLY
42	NC	165	SER
42	NC	176	GLN
42	NC	247	ALA
42	NC	248	LEU
42	NC	261	PRO
41	ND	160	PRO
41	ND	222	TYR
41	ND	259	PRO
41	ND	262	ARG
41	NF	71	GLY
41	NF	80	PRO
41	NF	262	ARG
41	NF	271	ALA
41	NF	277	GLY
41	NF	279	GLN
41	NF	284	LEU
41	NF	285	THR
41	NF	337	ASN
41	NF	393	ALA
42	NG	57	GLY
42	NG	61	HIS
42	NG	214	ARG
42	NG	264	ARG

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Mol	Chain	Res	Type
42	NG	437	MET
41	NH	215	LEU
41	NH	303	CYS
41	NH	346	PRO
41	NH	392	LYS
42	NI	112	LYS
42	NI	113	GLU
42	NI	214	ARG
42	NI	341	ILE
42	NK	85	GLN
42	NK	90	GLU
42	NK	141	PHE
42	NK	280	LYS
42	NK	281	ALA
42	NK	388	TRP
41	OB	57	GLY
41	OB	108	GLU
41	OB	173	PRO
41	OB	174	LYS
41	OB	197	ASP
41	OB	240	LEU
41	OB	263	LEU
41	OB	284	LEU
41	OB	303	CYS
41	OB	307	HIS
41	OB	315	ALA
41	OB	346	PRO
41	OF	80	PRO
42	OG	86	LEU
42	OG	162	GLY
42	OG	261	PRO
42	OG	341	ILE
42	OG	349	THR
41	OH	71	GLY
41	OH	94	GLN
41	OH	98	GLY
41	OH	259	PRO
41	OH	271	ALA
41	OH	302	ALA
42	OI	176	GLN
41	OJ	59	TYR
41	OJ	99	ASN

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Mol	Chain	Res	Type
41	OJ	173	PRO
41	OJ	216	LYS
41	OL	393	ALA
41	OL	394	PHE
42	PA	86	LEU
42	PA	218	ASP
42	PA	243	ARG
42	PA	280	LYS
42	PA	339	ARG
41	PB	35	THR
41	PB	38	GLY
41	PB	68	LEU
41	PB	82	GLY
41	PB	284	LEU
41	PB	297	LYS
41	PB	303	CYS
41	PB	346	PRO
42	PC	9	VAL
42	PC	35	GLN
42	PC	70	LEU
42	PC	73	THR
42	PC	136	LEU
42	PC	261	PRO
42	PC	298	PRO
42	PC	299	ALA
42	PC	305	CYS
42	PC	403	ALA
41	PD	49	VAL
41	PD	87	PRO
41	PD	344	TRP
41	PD	402	GLY
42	PE	33	ASP
42	PE	111	GLY
42	PE	146	GLY
42	PE	148	GLY
42	PE	200	CYS
42	PE	241	SER
42	PE	277	SER
42	PE	402	ARG
41	PF	80	PRO
41	PF	99	ASN
41	PF	146	GLY

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Mol	Chain	Res	Type
41	PF	161	ASP
41	PF	193	VAL
41	PF	284	LEU
41	PF	339	SER
41	PF	392	LYS
42	PG	58	ALA
42	PG	175	PRO
42	PG	186	ASN
42	PG	215	ARG
42	PG	305	CYS
42	PG	341	ILE
42	PG	438	ASP
41	PH	43	GLN
41	PH	57	GLY
41	PH	80	PRO
41	PH	126	SER
41	PH	146	GLY
41	PH	160	PRO
41	PH	178	THR
41	PH	212	PHE
41	PH	216	LYS
41	PH	240	LEU
41	PH	296	ALA
41	PH	297	LYS
41	PH	310	TYR
41	PH	400	GLY
42	PI	32	PRO
42	PI	35	GLN
42	PI	61	HIS
42	PI	109	THR
42	PI	110	ILE
42	PI	111	GLY
42	PI	148	GLY
42	PI	149	PHE
42	PI	216	ASN
42	PI	221	ARG
42	PI	273	ALA
42	PI	299	ALA
42	PI	302	MET
42	PI	393	HIS
42	PI	404	PHE
41	PJ	33	THR

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Mol	Chain	Res	Type
41	PJ	40	SER
41	PJ	42	LEU
41	PJ	57	GLY
41	PJ	80	PRO
41	PJ	129	CYS
41	PJ	193	VAL
41	PJ	200	TYR
41	PJ	227	HIS
41	PJ	315	ALA
41	PJ	339	SER
42	PK	101	ASN
42	PK	129	CYS
42	PK	202	PHE
42	PK	214	ARG
42	PK	340	THR
42	PK	412	GLY
41	PL	57	GLY
41	PL	80	PRO
41	PL	103	LYS
41	PL	108	GLU
41	PL	127	CYS
41	PL	173	PRO
41	PL	302	ALA
41	PL	310	TYR
41	PL	337	ASN
41	PL	346	PRO
42	QC	104	ALA
41	QD	174	LYS
42	QE	130	THR
41	QF	174	LYS
41	QH	62	ARG
41	QH	143	THR
41	QH	236	VAL
41	QH	284	LEU
41	QH	368	ILE
41	QH	392	LYS
42	QI	74	VAL
42	QI	131	GLY
42	QI	177	VAL
42	QI	273	ALA
42	QI	364	PRO
42	QI	402	ARG

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Mol	Chain	Res	Type
41	QJ	38	GLY
41	QJ	49	VAL
41	QJ	88	ASP
41	QJ	109	GLY
41	QJ	173	PRO
41	QJ	175	VAL
41	QJ	317	PHE
41	QJ	362	LYS
41	QJ	392	LYS
41	QJ	393	ALA
41	QJ	402	GLY
42	QK	215	ARG
42	QK	299	ALA
42	QK	355	ILE
41	QL	49	VAL
41	QL	89	ASN
41	QL	101	TRP
41	QL	102	ALA
41	QL	103	LYS
41	QL	129	CYS
41	QL	148	GLY
41	QL	163	ILE
41	QL	175	VAL
41	QL	300	MET
41	QL	302	ALA
41	QL	323	MET
41	QL	393	ALA
41	RD	80	PRO
41	RD	97	ALA
41	RD	216	LYS
41	RD	259	PRO
41	RD	359	ARG
41	RF	173	PRO
41	RF	235	GLY
41	RF	247	ASN
41	RF	259	PRO
41	RF	302	ALA
41	RF	390	ARG
41	RF	396	HIS
42	RG	105	ARG
42	RI	105	ARG
42	RI	176	GLN

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Mol	Chain	Res	Type
41	RJ	80	PRO
41	RJ	99	ASN
41	RJ	173	PRO
41	RJ	271	ALA
41	RJ	355	ASP
41	RJ	359	ARG
41	RJ	401	GLU
41	RJ	402	GLY
42	RK	52	PHE
42	SE	30	ILE
42	SE	33	ASP
42	SE	35	GLN
42	SE	49	PHE
42	SE	167	LEU
42	SE	247	ALA
42	SE	341	ILE
41	SF	30	ILE
41	SF	55	THR
41	SF	109	GLY
41	SF	174	LYS
41	SF	299	MET
41	SF	405	GLU
41	SH	50	TYR
41	SH	138	SER
42	SI	89	PRO
42	SI	162	GLY
42	SI	261	PRO
41	SL	49	VAL
41	SL	80	PRO
41	SL	98	GLY
41	SL	101	TRP
41	SL	109	GLY
41	SL	130	LEU
41	SL	173	PRO
41	SL	174	LYS
41	SL	262	ARG
41	SL	337	ASN
41	SL	346	PRO
41	SL	388	MET
41	SL	394	PHE
41	SL	402	GLY
42	TC	110	ILE

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Mol	Chain	Res	Type
42	TC	273	ALA
42	TE	110	ILE
41	TF	107	THR
41	TF	394	PHE
42	TG	110	ILE
41	TH	253	LEU
41	TH	254	ALA
42	TI	29	GLY
42	TI	96	LYS
42	TI	110	ILE
42	TI	216	ASN
42	TI	264	ARG
42	TI	290	GLU
42	TI	350	GLY
42	TK	51	THR
42	TK	58	ALA
42	TK	60	LYS
42	TK	73	THR
42	TK	87	PHE
42	TK	110	ILE
42	TK	175	PRO
42	TK	305	CYS
42	TK	349	THR
41	TL	108	GLU
41	TL	394	PHE
42	TM	50	ASN
42	UC	165	SER
42	UC	302	MET
42	UC	304	LYS
42	UE	73	THR
41	UF	108	GLU
41	UF	394	PHE
42	UG	87	PHE
42	UG	243	ARG
42	UI	90	GLU
41	UL	108	GLU
41	UL	271	ALA
41	VF	108	GLU
41	VJ	80	PRO
42	VK	57	GLY
42	VK	58	ALA
42	VK	247	ALA

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Mol	Chain	Res	Type
42	VK	335	ILE
42	VK	353	VAL
41	WD	108	GLU
41	WD	355	ASP
42	WE	29	GLY
42	WE	402	ARG
42	WE	403	ALA
42	WE	413	MET
41	WF	11	GLN
41	WF	139	LEU
41	WF	392	LYS
41	WF	393	ALA
41	WH	303	CYS
41	WH	337	ASN
41	WH	393	ALA
42	WI	101	ASN
42	WI	144	GLY
42	WI	162	GLY
42	WI	165	SER
42	WI	216	ASN
42	WI	256	GLN
42	WI	261	PRO
1	1A	646	GLU
7	1U	39	LEU
7	1U	60	GLU
7	1U	175	ARG
8	1W	19	SER
9	2D	547	ALA
13	2T	386	ARG
14	2W	25	VAL
14	2Y	175	ARG
15	3A	169	LEU
16	3C	147	LYS
20	3Q	442	TYR
22	3Y	20	TYR
22	3Y	53	PRO
27	4R	87	HIS
27	4T	217	LYS
31	5D	89	ALA
31	5J	133	ASN
32	5O	126	ASP
32	5O	127	LEU

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Mol	Chain	Res	Type
32	5O	387	GLU
33	5S	212	SER
34	6A	212	HIS
34	6A	279	ASP
34	6B	453	ALA
34	6C	209	ASP
34	6L	64	THR
35	6R	236	THR
35	6U	235	SER
35	6V	169	ARG
35	6W	246	LYS
35	6W	247	PHE
37	7C	126	ALA
37	7C	192	VAL
37	7C	222	SER
39	7K	39	LYS
41	AB	108	GLU
42	AC	40	LYS
41	AF	99	ASN
42	AG	39	ASP
41	AH	99	ASN
41	AH	161	ASP
41	AH	173	PRO
41	AH	271	ALA
41	AH	393	ALA
42	AI	259	LEU
42	AK	273	ALA
41	AL	271	ALA
41	AL	354	CYS
41	AL	355	ASP
41	BD	305	PRO
42	BG	280	LYS
42	BI	52	PHE
42	BI	141	PHE
42	BI	175	PRO
42	BI	243	ARG
42	BI	247	ALA
42	BI	248	LEU
42	BI	273	ALA
42	BI	349	THR
42	CC	39	ASP
42	CC	109	THR

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Mol	Chain	Res	Type
42	CC	199	ASP
42	CC	247	ALA
42	CC	277	SER
42	CC	304	LYS
42	CC	340	THR
41	CD	47	ILE
41	CD	80	PRO
41	CD	107	THR
41	CD	212	PHE
41	CD	263	LEU
41	CD	284	LEU
41	CF	45	GLU
41	CF	82	GLY
41	CF	87	PRO
41	CF	91	VAL
41	CF	107	THR
41	CF	188	SER
41	CF	271	ALA
41	CF	307	HIS
41	CF	393	ALA
42	CG	109	THR
42	CG	197	HIS
42	CG	242	LEU
42	CG	273	ALA
42	CG	280	LYS
42	CG	305	CYS
41	CJ	39	ASP
41	CJ	43	GLN
41	CJ	98	GLY
41	CJ	240	LEU
41	CJ	320	ARG
42	CM	82	THR
42	DE	176	GLN
42	DE	404	PHE
41	DF	108	GLU
41	DF	393	ALA
41	DH	113	VAL
41	DH	193	VAL
41	DH	194	GLU
41	DH	216	LYS
41	DH	252	LYS
41	DH	257	MET

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Mol	Chain	Res	Type
41	DH	264	HIS
41	DH	271	ALA
41	DH	284	LEU
41	DH	346	PRO
41	DH	388	MET
42	DI	163	LYS
41	DJ	58	LYS
41	DJ	108	GLU
41	DJ	109	GLY
41	DJ	174	LYS
41	DJ	212	PHE
41	DJ	216	LYS
41	DJ	245	GLN
41	DJ	261	PRO
41	DJ	271	ALA
41	DJ	297	LYS
41	DJ	320	ARG
41	DJ	348	ASN
41	DJ	402	GLY
42	DK	34	GLY
42	DK	58	ALA
42	DK	61	HIS
42	DK	106	GLY
42	DK	299	ALA
42	DK	328	VAL
42	DK	365	GLY
42	DK	411	GLU
42	DK	413	MET
41	DL	81	PHE
41	DL	88	ASP
41	DL	271	ALA
42	DM	403	ALA
41	ED	40	SER
41	ED	131	GLN
41	ED	271	ALA
41	ED	390	ARG
42	EE	158	SER
42	EE	164	LYS
42	EE	175	PRO
42	EE	412	GLY
42	EG	28	HIS
42	EG	41	THR

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Mol	Chain	Res	Type
42	EG	58	ALA
42	EG	69	ASP
42	EG	72	PRO
42	EG	104	ALA
42	EG	112	LYS
42	EG	224	TYR
42	EG	264	ARG
41	EJ	275	SER
41	EJ	355	ASP
42	EK	105	ARG
42	EK	148	GLY
42	EK	176	GLN
42	EK	206	ASN
42	EK	258	ASN
42	EK	261	PRO
42	EK	273	ALA
42	EK	349	THR
41	EL	134	GLN
41	EL	399	THR
42	EM	67	PHE
42	EM	131	GLY
42	EM	197	HIS
42	EM	217	LEU
42	EM	304	LYS
42	EM	370	LYS
42	FC	131	GLY
42	FC	136	LEU
42	FC	141	PHE
42	FC	144	GLY
42	FC	283	HIS
42	FC	367	ASP
42	FC	412	GLY
42	FC	439	SER
41	FD	129	CYS
41	FD	190	HIS
41	FD	249	ASP
41	FD	259	PRO
41	FD	262	ARG
41	FD	284	LEU
41	FD	368	ILE
42	FE	273	ALA
41	FF	45	GLU

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Mol	Chain	Res	Type
41	FF	271	ALA
41	FH	393	ALA
42	FK	73	THR
42	FK	79	ARG
42	FK	90	GLU
42	FK	261	PRO
42	FK	348	PRO
42	FK	385	ALA
42	FK	437	MET
41	FL	131	GLN
41	FL	173	PRO
41	FL	213	ARG
41	FL	335	ASN
41	FL	337	ASN
41	FL	361	LEU
41	FL	362	LYS
41	GD	90	PHE
41	GD	107	THR
41	GD	173	PRO
41	GD	271	ALA
41	GD	390	ARG
42	GE	50	ASN
41	GJ	173	PRO
41	GJ	174	LYS
41	GJ	213	ARG
41	GJ	262	ARG
41	GJ	358	PRO
41	GJ	393	ALA
42	GM	2	ARG
42	GM	39	ASP
42	GM	175	PRO
42	GM	186	ASN
42	GM	187	SER
42	GM	300	ASN
42	HC	109	THR
42	HC	142	GLY
42	HC	165	SER
42	HC	258	ASN
42	HC	261	PRO
42	HC	273	ALA
42	HC	382	THR
42	HC	407	TRP

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Mol	Chain	Res	Type
42	HC	411	GLU
42	HC	412	GLY
41	HD	30	ILE
41	HD	43	GLN
41	HD	71	GLY
41	HD	110	ALA
41	HD	271	ALA
41	HD	293	MET
41	HD	315	ALA
41	HD	361	LEU
42	HE	273	ALA
41	HF	99	ASN
42	HG	83	TYR
42	HG	257	THR
42	HG	299	ALA
42	HG	342	GLN
42	HG	349	THR
42	HG	412	GLY
42	HI	300	ASN
42	HI	349	THR
42	HI	370	LYS
42	HI	402	ARG
41	HJ	163	ILE
42	HM	259	LEU
42	HM	304	LYS
42	IE	58	ALA
42	IE	101	ASN
42	IE	349	THR
41	IN	218	THR
41	IN	271	ALA
41	IN	302	ALA
41	IN	306	ARG
41	IN	346	PRO
41	IN	362	LYS
41	IN	396	HIS
42	JK	29	GLY
42	JK	33	ASP
42	JK	142	GLY
42	JK	165	SER
42	JK	202	PHE
42	JK	273	ALA
42	JK	314	ALA

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Mol	Chain	Res	Type
41	JL	2	ARG
41	JL	71	GLY
41	JL	259	PRO
41	JL	271	ALA
42	JM	27	GLU
42	JM	175	PRO
42	JM	247	ALA
42	JM	273	ALA
42	JM	304	LYS
42	KM	247	ALA
41	KN	393	ALA
41	LD	160	PRO
41	LD	346	PRO
42	LI	61	HIS
41	MD	271	ALA
41	MD	337	ASN
41	MF	259	PRO
41	MF	271	ALA
42	MG	259	LEU
42	MG	273	ALA
42	MG	286	LEU
42	MG	312	TYR
41	MN	80	PRO
41	MN	241	ARG
41	MN	263	LEU
41	MN	271	ALA
41	MN	359	ARG
41	MN	394	PHE
42	NA	72	PRO
42	NA	141	PHE
42	NA	176	GLN
42	NA	413	MET
41	NB	45	GLU
41	NB	57	GLY
41	NB	271	ALA
41	NB	275	SER
42	NC	61	HIS
42	NC	245	ASP
41	ND	45	GLU
41	ND	139	LEU
41	ND	245	GLN
41	ND	271	ALA

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Mol	Chain	Res	Type
41	ND	293	MET
42	NE	273	ALA
41	NF	55	THR
41	NF	70	PRO
41	NF	84	ILE
41	NF	130	LEU
41	NF	261	PRO
41	NF	306	ARG
41	NF	336	LYS
42	NG	72	PRO
42	NG	73	THR
42	NG	217	LEU
42	NG	261	PRO
41	NH	58	LYS
41	NH	104	GLY
41	NH	271	ALA
41	NH	277	GLY
41	NH	393	ALA
42	NI	32	PRO
42	NI	227	LEU
42	NI	349	THR
42	NI	436	GLY
42	NK	13	GLY
42	NK	144	GLY
42	NK	165	SER
42	NK	196	GLU
42	NK	247	ALA
42	NK	287	SER
41	NL	271	ALA
41	OB	82	GLY
41	OB	99	ASN
41	OB	100	ASN
41	OB	131	GLN
41	OB	239	CYS
41	OB	243	PRO
41	OB	259	PRO
41	OB	261	PRO
41	OB	365	ALA
41	OB	366	THR
41	OF	82	GLY
42	OG	216	ASN
42	OG	263	PRO

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Mol	Chain	Res	Type
42	OG	340	THR
41	OH	67	ASP
41	OH	91	VAL
41	OH	171	PRO
41	OH	245	GLN
41	OH	346	PRO
41	OJ	91	VAL
41	OJ	94	GLN
41	OJ	174	LYS
41	OJ	392	LYS
42	OK	340	THR
42	PA	47	ASP
42	PA	51	THR
42	PA	84	ARG
42	PA	131	GLY
42	PA	141	PHE
42	PA	261	PRO
42	PA	298	PRO
42	PA	299	ALA
42	PA	305	CYS
42	PA	364	PRO
41	PB	56	GLY
41	PB	57	GLY
41	PB	80	PRO
41	PB	84	ILE
41	PB	158	GLU
41	PB	339	SER
42	PC	86	LEU
42	PC	101	ASN
42	PC	102	ASN
42	PC	146	GLY
42	PC	315	CYS
42	PC	364	PRO
41	PD	171	PRO
41	PD	193	VAL
41	PD	324	LYS
41	PD	346	PRO
42	PE	59	GLY
42	PE	86	LEU
42	PE	101	ASN
42	PE	199	ASP
42	PE	216	ASN

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Mol	Chain	Res	Type
42	PE	240	ALA
42	PE	255	PHE
42	PE	273	ALA
42	PG	30	ILE
42	PG	32	PRO
42	PG	149	PHE
42	PG	160	ASP
42	PG	173	PRO
42	PG	217	LEU
42	PG	255	PHE
42	PG	261	PRO
42	PG	322	ASP
42	PG	339	ARG
41	PH	82	GLY
41	PH	150	LEU
41	PH	200	TYR
41	PH	241	ARG
41	PH	268	PRO
41	PH	300	MET
41	PH	327	ASP
41	PH	351	THR
41	PH	392	LYS
41	PH	393	ALA
42	PI	99	ALA
42	PI	112	LYS
42	PI	141	PHE
42	PI	173	PRO
42	PI	186	ASN
42	PI	215	ARG
42	PI	252	LEU
42	PI	283	HIS
41	PJ	41	ASP
41	PJ	197	ASP
41	PJ	215	LEU
41	PJ	259	PRO
41	PJ	346	PRO
42	PK	100	ALA
42	PK	261	PRO
42	PK	286	LEU
42	PK	377	MET
42	PK	402	ARG
41	PL	11	GLN

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Mol	Chain	Res	Type
41	PL	142	GLY
41	PL	239	CYS
41	PL	246	LEU
41	PL	271	ALA
41	PL	292	GLN
41	PL	403	MET
41	QF	271	ALA
41	QF	393	ALA
41	QH	88	ASP
41	QH	103	LYS
41	QH	215	LEU
41	QH	262	ARG
41	QH	271	ALA
41	QH	305	PRO
41	QH	316	VAL
41	QH	362	LYS
42	QI	2	ARG
42	QI	75	ILE
42	QI	96	LYS
42	QI	141	PHE
42	QI	300	ASN
42	QI	349	THR
41	QJ	68	LEU
41	QJ	89	ASN
41	QJ	101	TRP
41	QJ	102	ALA
41	QJ	152	ILE
41	QJ	161	ASP
41	QJ	212	PHE
41	QJ	216	LYS
41	QJ	262	ARG
41	QJ	271	ALA
41	QJ	297	LYS
41	QJ	359	ARG
42	QK	48	SER
42	QK	86	LEU
42	QK	107	HIS
42	QK	176	GLN
42	QK	177	VAL
42	QK	192	HIS
42	QK	317	LEU
42	QK	338	LYS

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Mol	Chain	Res	Type
41	QL	65	LEU
41	QL	80	PRO
41	QL	90	PHE
41	QL	128	ASP
41	QL	158	GLU
41	QL	271	ALA
41	QL	284	LEU
41	QL	337	ASN
41	RD	35	THR
41	RD	81	PHE
41	RD	127	CYS
41	RD	161	ASP
41	RD	173	PRO
41	RD	271	ALA
41	RD	394	PHE
41	RD	396	HIS
41	RD	402	GLY
41	RF	81	PHE
41	RF	94	GLN
41	RF	177	ASP
41	RF	271	ALA
41	RH	393	ALA
41	RJ	87	PRO
41	RJ	102	ALA
41	RJ	162	ARG
41	RJ	328	GLU
41	RL	108	GLU
41	RL	161	ASP
41	RL	393	ALA
41	RL	394	PHE
41	SD	355	ASP
42	SE	67	PHE
42	SE	90	GLU
42	SE	141	PHE
42	SE	142	GLY
42	SE	216	ASN
42	SE	244	PHE
42	SE	326	LYS
42	SE	367	ASP
42	SE	412	GLY
42	SE	438	ASP
41	SF	138	SER

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Mol	Chain	Res	Type
41	SF	262	ARG
41	SF	271	ALA
41	SF	339	SER
41	SF	359	ARG
42	SG	86	LEU
42	SI	90	GLU
42	SI	131	GLY
42	SI	142	GLY
42	SI	192	HIS
42	SI	199	ASP
42	SI	214	ARG
42	SI	220	GLU
42	SI	341	ILE
42	SI	367	ASP
41	SJ	393	ALA
41	SL	248	ALA
41	SL	281	TYR
41	SL	319	GLY
41	SL	336	LYS
41	SL	359	ARG
42	SM	243	ARG
42	TC	141	PHE
42	TE	403	ALA
41	TF	393	ALA
41	TH	249	ASP
42	TI	256	GLN
42	TI	313	MET
42	TK	50	ASN
42	TK	114	LEU
42	TK	147	SER
42	TK	173	PRO
42	TK	176	GLN
42	TK	198	SER
42	TK	261	PRO
42	TK	264	ARG
42	TK	368	LEU
42	UC	72	PRO
42	UC	91	GLN
42	UC	258	ASN
42	UC	273	ALA
42	UC	303	VAL
42	UC	349	THR

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Mol	Chain	Res	Type
42	UC	412	GLY
41	UD	271	ALA
42	UE	261	PRO
42	UE	403	ALA
41	UF	271	ALA
41	UF	393	ALA
41	UH	394	PHE
41	UJ	271	ALA
42	UM	273	ALA
42	VK	164	LYS
42	VK	261	PRO
42	VK	303	VAL
42	VK	349	THR
42	WE	218	ASP
42	WE	261	PRO
42	WE	304	LYS
41	WF	99	ASN
41	WF	271	ALA
41	WF	346	PRO
41	WH	245	GLN
41	WH	271	ALA
42	WI	57	GLY
42	WI	248	LEU
42	WI	364	PRO
41	WJ	394	PHE
42	WK	141	PHE
41	WL	271	ALA
42	WM	261	PRO
8	1W	7	GLN
8	1W	63	ALA
8	1W	132	ILE
11	2L	84	MET
12	2O	21	ALA
12	2P	340	ASP
12	2Q	340	ASP
14	2X	28	ILE
14	2Y	28	ILE
16	3C	30	SER
20	3O	633	ARG
27	4R	160	ARG
27	4R	218	ARG
27	4R	234	ARG

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Mol	Chain	Res	Type
27	4T	208	GLY
28	4W	52	PRO
29	4Y	111	LEU
31	5E	133	ASN
31	5J	89	ALA
33	5S	8	PRO
33	5S	186	ASP
33	5S	191	SER
33	5T	394	ARG
33	5V	414	THR
34	6B	408	ASN
34	6C	119	ARG
34	6C	212	HIS
34	6C	252	HIS
34	6C	279	ASP
35	6V	179	GLU
37	7D	56	ALA
37	7F	87	TYR
41	AH	94	GLN
41	AH	140	GLY
41	AH	294	PHE
41	AH	315	ALA
41	AH	346	PRO
41	AH	435	GLU
42	AI	30	ILE
42	AK	131	GLY
42	AK	247	ALA
41	AL	95	SER
41	AL	140	GLY
41	AL	245	GLN
41	BD	107	THR
41	BD	138	SER
41	BD	359	ARG
42	BI	29	GLY
42	BI	33	ASP
42	BI	53	PHE
42	BI	72	PRO
42	BI	304	LYS
42	BI	314	ALA
42	BI	341	ILE
42	CC	16	ILE
42	CC	70	LEU

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Mol	Chain	Res	Type
42	CC	86	LEU
42	CC	148	GLY
42	CC	242	LEU
42	CC	273	ALA
42	CC	338	LYS
41	CD	59	TYR
41	CD	271	ALA
41	CF	94	GLN
41	CF	216	LYS
42	CG	16	ILE
42	CG	59	GLY
42	CG	132	LEU
42	CG	375	VAL
41	CJ	35	THR
41	CJ	94	GLN
41	CJ	100	ASN
41	CJ	197	ASP
41	CJ	393	ALA
42	CM	175	PRO
42	CM	176	GLN
42	DC	141	PHE
41	DH	56	GLY
41	DH	71	GLY
41	DH	215	LEU
41	DH	246	LEU
41	DH	255	VAL
41	DH	355	ASP
41	DH	362	LYS
41	DH	400	GLY
42	DI	98	ASP
42	DI	109	THR
41	DJ	62	ARG
41	DJ	88	ASP
41	DJ	127	CYS
41	DJ	157	GLU
41	DJ	195	ASN
41	DJ	411	ALA
42	DK	50	ASN
42	DK	141	PHE
42	DK	349	THR
41	DL	393	ALA
42	DM	404	PHE

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Mol	Chain	Res	Type
42	EC	86	LEU
41	ED	54	ALA
41	ED	142	GLY
41	ED	162	ARG
41	ED	248	ALA
41	ED	284	LEU
41	ED	361	LEU
42	EE	100	ALA
42	EE	131	GLY
42	EE	261	PRO
42	EE	403	ALA
42	EG	32	PRO
42	EG	92	LEU
42	EG	113	GLU
42	EG	220	GLU
42	EG	221	ARG
42	EG	393	HIS
42	EK	59	GLY
42	EK	92	LEU
42	EK	110	ILE
42	EK	173	PRO
42	EK	247	ALA
42	EM	30	ILE
42	EM	32	PRO
42	EM	73	THR
42	EM	142	GLY
42	EM	163	LYS
42	FC	132	LEU
42	FC	258	ASN
41	FD	94	GLN
41	FD	107	THR
41	FD	336	LYS
42	FK	58	ALA
42	FK	69	ASP
42	FK	89	PRO
42	FK	146	GLY
42	FK	179	THR
42	FK	201	ALA
42	FK	343	PHE
41	FL	194	GLU
41	FL	295	ASP
41	FL	376	GLU

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Mol	Chain	Res	Type
41	GD	262	ARG
42	GM	46	ASP
42	GM	389	ALA
42	GM	413	MET
41	HB	338	SER
42	HC	73	THR
42	HC	141	PHE
41	HD	161	ASP
41	HD	268	PRO
41	HD	300	MET
42	HE	215	ARG
42	HG	33	ASP
42	HG	35	GLN
42	HG	142	GLY
42	HG	220	GLU
42	HG	273	ALA
42	HG	438	ASP
42	HI	160	ASP
42	HI	258	ASN
42	HI	286	LEU
41	HJ	271	ALA
42	HM	73	THR
42	HM	132	LEU
42	HM	164	LYS
42	HM	165	SER
42	HM	247	ALA
42	IE	216	ASN
42	IE	219	ILE
42	IE	259	LEU
42	IE	273	ALA
42	IE	340	THR
41	IN	160	PRO
41	IN	265	PHE
41	IN	293	MET
41	IN	305	PRO
41	IN	401	GLU
41	IN	427	ASP
42	JK	32	PRO
42	JK	87	PHE
42	JK	98	ASP
42	JK	109	THR
42	JK	217	LEU

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Mol	Chain	Res	Type
42	JK	261	PRO
42	JK	349	THR
41	JL	392	LYS
42	JM	57	GLY
42	JM	437	MET
42	KM	33	ASP
42	KM	261	PRO
42	KM	273	ALA
42	KM	413	MET
41	LD	70	PRO
41	LD	271	ALA
41	MD	173	PRO
41	MD	262	ARG
41	MF	336	LYS
41	MF	346	PRO
41	MF	392	LYS
42	MG	364	PRO
42	NA	29	GLY
42	NA	58	ALA
42	NA	107	HIS
42	NA	247	ALA
42	NA	369	ALA
42	NA	412	GLY
41	NB	111	GLU
41	NB	278	SER
41	NB	302	ALA
41	NB	303	CYS
41	NB	336	LYS
41	NB	356	ILE
41	NB	394	PHE
42	NC	114	LEU
42	NC	160	ASP
42	NC	349	THR
42	NC	432	TYR
41	ND	223	GLY
41	ND	356	ILE
42	NG	166	LYS
42	NG	192	HIS
42	NG	413	MET
41	NH	2	ARG
41	NH	71	GLY
41	NH	80	PRO

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Mol	Chain	Res	Type
41	NH	361	LEU
42	NI	100	ALA
42	NI	264	ARG
42	NI	305	CYS
42	NI	435	VAL
41	NJ	249	ASP
41	NJ	259	PRO
42	NK	83	TYR
42	NK	89	PRO
42	NK	101	ASN
42	NK	216	ASN
42	NK	387	ALA
41	OB	59	TYR
41	OB	245	GLN
41	OB	268	PRO
41	OB	271	ALA
41	OB	343	GLU
41	OB	364	SER
41	OD	358	PRO
41	OF	108	GLU
42	OG	59	GLY
42	OG	163	LYS
42	OG	217	LEU
41	OH	33	THR
41	OH	57	GLY
41	OH	393	ALA
41	OJ	271	ALA
41	OJ	302	ALA
42	PA	279	GLU
42	PA	283	HIS
42	PA	370	LYS
41	PB	42	LEU
41	PB	130	LEU
41	PB	160	PRO
41	PB	182	PRO
41	PB	338	SER
41	PB	344	TRP
42	PC	79	ARG
42	PC	161	TYR
42	PC	273	ALA
42	PC	303	VAL
42	PC	313	MET

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Mol	Chain	Res	Type
41	PD	98	GLY
41	PD	175	VAL
41	PD	263	LEU
41	PD	338	SER
41	PD	362	LYS
42	PE	131	GLY
42	PE	141	PHE
42	PE	298	PRO
42	PE	391	LEU
41	PF	49	VAL
41	PF	160	PRO
41	PF	263	LEU
41	PF	388	MET
42	PG	130	THR
42	PG	148	GLY
42	PG	184	PRO
42	PG	225	THR
42	PG	247	ALA
42	PG	400	ALA
42	PG	439	SER
41	PH	59	TYR
41	PH	107	THR
41	PH	108	GLU
41	PH	145	SER
41	PH	191	GLN
41	PH	214	THR
41	PH	239	CYS
41	PH	263	LEU
41	PH	313	VAL
41	PH	338	SER
41	PH	424	GLN
42	PI	51	THR
42	PI	72	PRO
42	PI	83	TYR
42	PI	240	ALA
42	PI	242	LEU
42	PI	247	ALA
42	PI	280	LYS
42	PI	303	VAL
42	PI	402	ARG
42	PI	408	TYR
42	PI	410	GLY

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Mol	Chain	Res	Type
41	PJ	108	GLU
41	PJ	128	ASP
41	PJ	216	LYS
41	PJ	271	ALA
41	PJ	300	MET
42	PK	109	THR
42	PK	305	CYS
41	PL	61	PRO
41	PL	249	ASP
41	PL	328	GLU
41	PL	371	SER
41	QB	259	PRO
42	QG	93	ILE
41	QH	97	ALA
41	QH	98	GLY
41	QH	113	VAL
41	QH	212	PHE
41	QH	246	LEU
41	QH	348	ASN
41	QH	359	ARG
42	QI	105	ARG
42	QI	238	ILE
42	QI	367	ASP
41	QJ	54	ALA
41	QJ	104	GLY
41	QJ	245	GLN
42	QK	64	ARG
42	QK	184	PRO
42	QK	185	TYR
42	QK	199	ASP
42	QK	204	VAL
42	QK	273	ALA
42	QK	378	LEU
41	QL	34	GLY
41	QL	92	PHE
41	QL	336	LYS
41	QL	392	LYS
41	RD	71	GLY
41	RD	174	LYS
41	RD	236	VAL
41	RD	397	TRP
42	RE	48	SER

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Mol	Chain	Res	Type
41	RF	19	LYS
41	RF	104	GLY
41	RF	203	ASP
41	RF	257	MET
41	RF	303	CYS
41	RF	304	ASP
41	RF	402	GLY
42	RI	261	PRO
41	RJ	44	LEU
41	RJ	71	GLY
41	RJ	110	ALA
41	RJ	303	CYS
41	RJ	370	ASN
42	SE	101	ASN
42	SE	110	ILE
42	SE	213	CYS
42	SE	273	ALA
42	SE	278	ALA
42	SE	386	GLU
42	SE	402	ARG
42	SE	437	MET
41	SF	44	LEU
41	SF	70	PRO
41	SF	71	GLY
41	SF	97	ALA
41	SF	108	GLU
41	SF	158	GLU
41	SF	336	LYS
41	SF	355	ASP
42	SI	30	ILE
42	SI	32	PRO
42	SI	49	PHE
42	SI	96	LYS
42	SI	140	SER
42	SI	148	GLY
42	SI	216	ASN
42	SI	298	PRO
42	SI	348	PRO
42	SI	350	GLY
41	SL	160	PRO
41	SL	167	PHE
41	SL	220	PRO

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Mol	Chain	Res	Type
41	SL	392	LYS
41	TH	393	ALA
42	TI	27	GLU
42	TI	141	PHE
42	TI	202	PHE
42	TI	241	SER
42	TI	261	PRO
41	TJ	32	PRO
41	TJ	393	ALA
42	TK	136	LEU
41	TL	393	ALA
42	TM	261	PRO
42	UC	198	SER
42	UC	248	LEU
42	UC	256	GLN
42	UC	338	LYS
41	UH	393	ALA
42	UI	304	LYS
42	UK	116	ASP
41	VJ	81	PHE
41	VJ	108	GLU
41	VJ	259	PRO
42	VK	72	PRO
42	VK	109	THR
42	VK	110	ILE
42	VK	161	TYR
42	VK	165	SER
42	WE	175	PRO
42	WE	217	LEU
42	WE	273	ALA
42	WE	306	ASP
41	WH	43	GLN
41	WH	336	LYS
42	WI	109	THR
42	WI	113	GLU
42	WI	255	PHE
42	WI	264	ARG
42	WI	273	ALA
42	WI	412	GLY
41	WL	40	SER
41	WL	393	ALA
9	2D	345	PRO

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Mol	Chain	Res	Type
9	2D	565	GLU
12	2O	408	THR
12	2P	21	ALA
12	2P	408	THR
14	2X	239	MET
19	3J	309	PRO
20	3Q	427	ILE
27	4R	136	GLU
27	4R	250	THR
27	4T	220	ASN
30	5A	343	LEU
32	5O	190	SER
32	5O	206	ARG
33	5S	209	PRO
33	5T	331	ARG
33	5V	406	PRO
34	6B	391	ALA
34	6C	418	LEU
34	6D	411	LEU
34	6H	477	ARG
35	6S	157	GLN
35	6S	163	GLN
35	6V	171	CYS
35	6W	251	ALA
37	7D	28	PRO
38	7H	65	GLU
41	AH	392	LYS
42	AI	89	PRO
42	AI	275	VAL
42	AK	263	PRO
42	AK	275	VAL
42	AK	326	LYS
42	AK	409	VAL
41	AL	40	SER
41	AL	284	LEU
41	BD	71	GLY
41	BD	142	GLY
42	BI	34	GLY
42	BI	110	ILE
42	BI	163	LYS
42	BI	263	PRO
42	BI	275	VAL

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Mol	Chain	Res	Type
42	BI	364	PRO
42	CC	12	ALA
42	CC	37	PRO
42	CC	44	GLY
42	CC	131	GLY
42	CC	132	LEU
42	CC	154	MET
42	CC	265	ILE
42	CC	282	TYR
42	CC	414	GLU
41	CD	76	VAL
41	CD	216	LYS
41	CD	399	THR
41	CF	213	ARG
41	CF	261	PRO
42	CG	17	GLY
41	CH	393	ALA
41	CJ	49	VAL
41	CJ	71	GLY
41	CJ	80	PRO
41	CJ	272	PRO
41	CJ	303	CYS
42	CM	339	ARG
41	DH	103	LYS
41	DH	171	PRO
41	DH	237	THR
41	DH	254	ALA
41	DH	293	MET
42	DI	107	HIS
42	DI	261	PRO
41	DJ	21	TRP
41	DJ	107	THR
41	DJ	346	PRO
41	DJ	409	THR
41	DJ	421	GLU
42	DK	27	GLU
42	DK	273	ALA
42	DK	420	GLU
42	DK	437	MET
41	DL	68	LEU
42	DM	339	ARG
41	ED	80	PRO

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Mol	Chain	Res	Type
41	ED	89	ASN
41	ED	186	THR
41	ED	336	LYS
41	ED	362	LYS
41	ED	376	GLU
42	EE	32	PRO
42	EE	40	LYS
42	EE	216	ASN
42	EE	273	ALA
41	EF	218	THR
42	EG	67	PHE
42	EG	177	VAL
42	EG	217	LEU
42	EG	325	PRO
42	EG	400	ALA
42	EK	2	ARG
42	EK	42	ILE
42	EK	220	GLU
42	EK	283	HIS
42	EK	286	LEU
42	EM	155	GLU
42	EM	423	GLU
42	FC	48	SER
42	FC	51	THR
42	FC	152	LEU
42	FC	167	LEU
42	FC	173	PRO
41	FD	139	LEU
41	FD	355	ASP
42	FK	105	ARG
42	FK	136	LEU
42	FK	142	GLY
42	FK	273	ALA
41	FL	42	LEU
41	FL	304	ASP
41	FL	340	TYR
41	FL	394	PHE
41	GD	81	PHE
41	GD	346	PRO
41	GJ	12	CYS
41	GJ	71	GLY
41	GJ	215	LEU

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Mol	Chain	Res	Type
42	GM	28	HIS
42	GM	37	PRO
42	GM	105	ARG
42	GM	282	TYR
42	HC	86	LEU
42	HC	104	ALA
42	HC	367	ASP
41	HD	173	PRO
41	HD	310	TYR
41	HD	346	PRO
42	HG	112	LYS
42	HI	247	ALA
41	HJ	211	CYS
42	IE	304	LYS
41	IH	80	PRO
41	IN	220	PRO
41	IN	257	MET
41	IN	426	GLN
42	JK	141	PHE
42	JK	160	ASP
42	JK	218	ASP
42	JM	163	LYS
42	JM	164	LYS
42	JM	349	THR
41	KD	70	PRO
41	MD	128	ASP
41	MD	175	VAL
41	MD	252	LYS
41	MF	34	GLY
42	MG	370	LYS
41	MN	174	LYS
41	MN	175	VAL
41	MN	338	SER
42	NA	245	ASP
42	NA	367	ASP
41	NB	300	MET
41	NB	392	LYS
42	NC	12	ALA
42	NC	52	PHE
42	NC	273	ALA
41	ND	303	CYS
42	NE	303	VAL

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Mol	Chain	Res	Type
41	NF	85	PHE
41	NF	403	MET
42	NG	113	GLU
42	NG	142	GLY
42	NG	159	VAL
42	NG	364	PRO
42	NG	404	PHE
41	NH	336	LYS
41	NH	356	ILE
42	NI	66	VAL
42	NI	72	PRO
42	NI	176	GLN
42	NI	306	ASP
42	NK	70	LEU
42	NK	87	PHE
41	OB	87	PRO
41	OB	183	TYR
41	OB	223	GLY
41	OB	305	PRO
41	OB	316	VAL
42	OG	175	PRO
42	OG	219	ILE
42	OG	273	ALA
42	OG	305	CYS
41	OH	139	LEU
41	OH	212	PHE
41	OH	216	LYS
41	OH	263	LEU
41	OH	299	MET
41	OH	392	LYS
41	OJ	33	THR
41	OJ	160	PRO
41	OJ	259	PRO
41	OJ	288	GLU
41	OJ	346	PRO
42	PA	132	LEU
42	PA	383	ALA
42	PC	2	ARG
42	PC	5	ILE
42	PC	37	PRO
42	PC	166	LYS
42	PC	176	GLN

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Mol	Chain	Res	Type
42	PC	286	LEU
42	PC	346	TRP
41	PD	39	ASP
41	PD	82	GLY
41	PD	172	SER
41	PD	212	PHE
41	PD	268	PRO
42	PE	51	THR
42	PE	109	THR
42	PE	247	ALA
42	PE	282	TYR
42	PE	403	ALA
42	PE	431	ASP
41	PF	145	SER
41	PF	173	PRO
41	PF	212	PHE
41	PF	271	ALA
41	PF	320	ARG
41	PF	351	THR
42	PG	17	GLY
42	PG	61	HIS
42	PG	159	VAL
42	PG	219	ILE
42	PG	272	TYR
41	PH	39	ASP
41	PH	50	TYR
41	PH	104	GLY
41	PH	151	LEU
41	PH	171	PRO
41	PH	205	GLU
41	PH	323	MET
41	PH	421	GLU
42	PI	98	ASP
42	PI	253	THR
42	PI	284	GLU
42	PI	406	HIS
42	PI	437	MET
41	PJ	32	PRO
41	PJ	218	THR
41	PJ	268	PRO
41	PJ	326	VAL
41	PJ	327	ASP

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Mol	Chain	Res	Type
41	PJ	328	GLU
42	PK	12	ALA
42	PK	141	PHE
42	PK	158	SER
42	PK	199	ASP
42	PK	298	PRO
41	PL	81	PHE
41	PL	97	ALA
41	PL	272	PRO
41	PL	284	LEU
41	PL	291	GLN
41	PL	356	ILE
41	QD	253	LEU
41	QF	108	GLU
41	QH	64	VAL
41	QH	182	PRO
42	QI	83	TYR
42	QI	109	THR
42	QI	164	LYS
42	QI	360	PRO
41	QJ	44	LEU
41	QJ	103	LYS
41	QJ	107	THR
41	QJ	108	GLU
41	QJ	142	GLY
41	QJ	157	GLU
41	QJ	168	SER
41	QJ	283	ALA
41	QJ	335	ASN
42	QK	126	ALA
42	QK	247	ALA
42	QK	305	CYS
41	QL	40	SER
41	QL	73	MET
41	QL	161	ASP
41	QL	173	PRO
42	RC	175	PRO
41	RD	220	PRO
41	RD	241	ARG
41	RD	287	PRO
41	RD	310	TYR
41	RF	36	TYR

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Mol	Chain	Res	Type
41	RF	79	GLY
41	RF	161	ASP
41	RF	184	ASN
41	RF	261	PRO
41	RF	293	MET
41	RF	359	ARG
41	RJ	161	ASP
41	RJ	182	PRO
41	RJ	245	GLN
41	RJ	249	ASP
41	RJ	297	LYS
41	RJ	346	PRO
41	RJ	356	ILE
41	RJ	358	PRO
42	SE	72	PRO
42	SE	325	PRO
42	SE	411	GLU
41	SF	43	GLN
41	SF	361	LEU
41	SF	397	TRP
41	SH	68	LEU
41	SH	346	PRO
42	SI	27	GLU
42	SI	101	ASN
42	SI	273	ALA
41	SJ	394	PHE
41	SL	29	GLY
41	SL	182	PRO
41	SL	241	ARG
41	TH	259	PRO
42	TI	247	ALA
42	TI	254	GLU
42	TI	268	PRO
42	TI	273	ALA
42	TI	312	TYR
42	TK	222	PRO
42	TK	243	ARG
42	TK	275	VAL
41	TL	405	GLU
42	UC	34	GLY
42	UC	109	THR
42	UC	175	PRO

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Mol	Chain	Res	Type
42	UC	366	GLY
41	UD	220	PRO
42	UI	160	ASP
42	UI	161	TYR
42	UM	175	PRO
42	VC	197	HIS
42	VK	59	GLY
42	VK	222	PRO
42	VK	273	ALA
41	VL	393	ALA
42	WE	263	PRO
42	WE	357	TYR
41	WF	80	PRO
41	WF	104	GLY
41	WF	336	LYS
42	WI	59	GLY
42	WI	175	PRO
41	WL	394	PHE
42	WM	141	PHE
41	WN	393	ALA
41	WN	394	PHE
12	2O	66	HIS
12	2P	570	HIS
20	3N	10	GLN
20	3Q	431	CYS
22	3Y	40	GLY
27	4R	178	SER
27	4R	252	GLU
30	5A	31	ASN
31	5H	89	ALA
31	5I	89	ALA
33	5Q	210	ASN
34	6A	473	CYS
35	6W	42	ALA
41	AH	107	THR
42	AI	404	PHE
42	AK	36	MET
42	AK	364	PRO
41	AL	128	ASP
41	BD	213	ARG
42	BI	142	GLY
41	CD	32	PRO

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Mol	Chain	Res	Type
41	CD	304	ASP
42	CG	9	VAL
42	CG	291	ILE
42	CG	364	PRO
41	CH	394	PHE
41	CJ	29	GLY
41	DB	184	ASN
41	DH	172	SER
41	DJ	95	SER
41	DJ	408	PHE
42	DK	33	ASP
42	DK	72	PRO
42	DK	400	ALA
41	DL	84	ILE
42	DM	110	ILE
42	DM	200	CYS
41	ED	109	GLY
42	EE	70	LEU
42	EG	12	ALA
42	EG	141	PHE
42	EK	204	VAL
42	EK	256	GLN
42	EK	306	ASP
42	EK	435	VAL
41	EL	346	PRO
42	EM	63	PRO
42	EM	205	ASP
42	EM	356	ASN
42	FC	97	GLU
42	FC	364	PRO
41	FD	160	PRO
41	FD	173	PRO
41	FD	344	TRP
41	FL	311	LEU
41	GD	49	VAL
41	GD	58	LYS
41	GD	67	ASP
41	GD	108	GLU
41	GD	171	PRO
41	GJ	387	ALA
42	GM	109	THR
41	HB	214	THR

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Mol	Chain	Res	Type
42	HC	202	PHE
42	HC	221	ARG
42	HC	353	VAL
41	HD	182	PRO
42	HG	110	ILE
42	HG	265	ILE
42	HI	59	GLY
42	HI	273	ALA
41	HJ	110	ALA
41	HJ	173	PRO
41	HJ	262	ARG
41	HJ	304	ASP
42	HM	142	GLY
42	IE	278	ALA
41	IN	336	LYS
42	JK	299	ALA
42	KM	402	ARG
41	LD	80	PRO
41	MD	139	LEU
41	MF	261	PRO
42	MG	58	ALA
42	MG	263	PRO
41	MN	193	VAL
42	NA	30	ILE
42	NA	304	LYS
41	NB	99	ASN
41	NB	276	ARG
41	NB	277	GLY
42	NC	140	SER
42	NC	148	GLY
42	NC	162	GLY
42	NC	315	CYS
42	NC	360	PRO
42	NC	364	PRO
41	ND	29	GLY
41	NF	49	VAL
41	NF	95	SER
41	NF	361	LEU
41	NL	293	MET
41	OB	323	MET
41	OB	339	SER
42	OG	259	LEU

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Mol	Chain	Res	Type
41	OJ	326	VAL
41	OJ	359	ARG
41	OJ	393	ALA
42	PA	341	ILE
41	PB	106	TYR
42	PC	30	ILE
42	PC	143	GLY
41	PD	54	ALA
41	PD	80	PRO
41	PD	259	PRO
42	PE	409	VAL
42	PE	410	GLY
41	PF	328	GLU
41	PF	346	PRO
41	PF	402	GLY
42	PG	16	ILE
42	PG	59	GLY
42	PG	298	PRO
42	PG	390	ARG
42	PG	431	ASP
41	PH	154	LYS
41	PH	402	GLY
41	PH	426	GLN
42	PI	305	CYS
42	PI	351	PHE
41	PJ	104	GLY
41	PL	98	GLY
41	PL	104	GLY
41	PL	325	GLU
41	QH	34	GLY
41	QH	393	ALA
41	QJ	18	ALA
41	QJ	20	PHE
41	QJ	236	VAL
41	QJ	238	THR
42	QK	268	PRO
41	QL	91	VAL
41	QL	162	ARG
41	QL	311	LEU
41	RD	301	ALA
41	RD	354	CYS
41	RF	71	GLY

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Mol	Chain	Res	Type
41	RF	103	LYS
41	RF	160	PRO
42	SC	199	ASP
42	SE	204	VAL
42	SE	256	GLN
42	SE	261	PRO
41	SF	403	MET
42	SI	219	ILE
42	SI	222	PRO
41	SJ	427	ASP
41	SL	32	PRO
41	SL	91	VAL
41	SL	107	THR
42	SM	216	ASN
42	TI	221	ARG
42	TI	243	ARG
42	TM	216	ASN
42	UC	278	ALA
42	VK	30	ILE
41	WF	95	SER
42	WG	141	PHE
41	WH	99	ASN
41	WJ	278	SER
41	WJ	393	ALA
27	4R	57	PRO
41	AH	160	PRO
42	AI	435	VAL
42	AK	30	ILE
42	AK	325	PRO
42	CC	43	GLY
42	CC	341	ILE
41	CF	255	VAL
42	CG	131	GLY
41	CJ	82	GLY
41	CJ	402	GLY
41	DJ	182	PRO
42	EG	265	ILE
42	EK	66	VAL
41	EL	400	GLY
42	EM	325	PRO
42	FC	416	GLY
41	FD	140	GLY

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Mol	Chain	Res	Type
42	FK	173	PRO
42	FK	265	ILE
41	FL	34	GLY
41	FL	109	GLY
41	FL	160	PRO
41	FL	342	VAL
41	GD	71	GLY
42	HG	72	PRO
42	HG	221	ARG
41	HJ	109	GLY
42	HK	204	VAL
42	HM	30	ILE
41	IN	268	PRO
41	JL	261	PRO
42	JM	34	GLY
42	JM	261	PRO
42	KM	131	GLY
41	MD	160	PRO
41	MF	71	GLY
41	MN	261	PRO
41	ND	91	VAL
42	NG	30	ILE
42	NG	265	ILE
42	NK	436	GLY
41	OB	32	PRO
41	OB	144	GLY
42	OC	110	ILE
42	OC	171	ILE
42	OG	131	GLY
42	PA	162	GLY
42	PA	344	VAL
41	PB	146	GLY
42	PE	184	PRO
42	PE	350	GLY
41	PF	82	GLY
41	PF	326	VAL
42	PG	409	VAL
41	PH	182	PRO
41	PH	259	PRO
42	PI	16	ILE
42	PI	17	GLY
42	PI	235	VAL

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Mol	Chain	Res	Type
42	PI	335	ILE
41	PJ	82	GLY
42	PK	250	VAL
41	PL	71	GLY
41	PL	193	VAL
41	QH	346	PRO
42	QI	5	ILE
42	QI	32	PRO
41	SD	173	PRO
42	TK	246	GLY
42	TK	265	ILE
42	UC	142	GLY
42	WE	159	VAL
42	WE	265	ILE
42	WE	364	PRO
41	WH	80	PRO
32	5O	385	ILE
33	5R	126	ILE
33	5S	185	ILE
33	5S	196	SER
34	6C	267	ILE
35	6V	164	HIS
38	7H	201	PRO
42	AI	142	GLY
41	AL	84	ILE
42	CC	110	ILE
42	CG	29	GLY
41	CJ	346	PRO
42	CK	110	ILE
42	DG	323	VAL
42	DK	204	VAL
41	ED	182	PRO
42	EE	111	GLY
42	EE	159	VAL
42	EE	364	PRO
42	EG	74	VAL
42	FC	110	ILE
41	FD	261	PRO
42	FK	275	VAL
41	GJ	140	GLY
42	GM	66	VAL
42	GM	273	ALA

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Mol	Chain	Res	Type
42	HC	275	VAL
42	IE	355	ILE
42	JK	66	VAL
42	JK	89	PRO
42	KM	32	PRO
42	KM	110	ILE
41	MN	374	ILE
42	NC	89	PRO
42	NC	110	ILE
42	NC	341	ILE
41	ND	142	GLY
42	NG	341	ILE
42	NI	131	GLY
42	NK	348	PRO
41	OB	349	VAL
42	OG	106	GLY
41	OH	34	GLY
42	PE	341	ILE
41	PJ	142	GLY
41	PJ	171	PRO
41	PJ	345	ILE
42	PK	364	PRO
41	PL	87	PRO
41	QJ	146	GLY
42	QK	360	PRO
41	RD	261	PRO
41	RD	342	VAL
42	SI	275	VAL
42	TI	66	VAL
42	UG	57	GLY
42	VG	219	ILE
42	WE	344	VAL
41	WH	175	VAL
11	2J	153	VAL
27	4R	211	ILE
33	5S	126	ILE
34	6C	328	VAL
42	AK	57	GLY
42	AK	265	ILE
42	BI	183	GLU
41	DJ	98	GLY
42	DK	410	GLY

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Mol	Chain	Res	Type
42	DK	412	GLY
42	EE	89	PRO
42	EE	148	GLY
42	EE	177	VAL
42	EK	144	GLY
41	FD	402	GLY
42	FK	306	ASP
41	GD	23	VAL
42	GM	57	GLY
41	HD	109	GLY
42	HI	175	PRO
41	HJ	182	PRO
42	HM	335	ILE
41	ID	271	ALA
42	IE	364	PRO
41	JL	109	GLY
42	JM	66	VAL
42	JM	89	PRO
41	LD	180	VAL
41	MD	180	VAL
41	MF	142	GLY
41	MN	173	PRO
42	NA	142	GLY
41	NB	268	PRO
42	NC	131	GLY
41	ND	173	PRO
42	NG	131	GLY
42	NG	219	ILE
42	NG	412	GLY
42	NI	29	GLY
42	NI	375	VAL
42	NK	29	GLY
42	NK	298	PRO
42	NK	360	PRO
41	OB	104	GLY
42	OC	261	PRO
42	OE	265	ILE
41	OH	268	PRO
41	PB	268	PRO
41	PB	400	GLY
41	PD	34	GLY
41	PD	210	ILE

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Mol	Chain	Res	Type
41	PD	305	PRO
42	PE	110	ILE
42	PG	146	GLY
42	PG	275	VAL
42	PG	332	ILE
41	PH	142	GLY
41	PH	356	ILE
41	PJ	49	VAL
41	PJ	342	VAL
42	PK	175	PRO
41	PL	171	PRO
41	QJ	98	GLY
41	QJ	304	ASP
41	QJ	346	PRO
41	QL	120	VAL
41	RJ	259	PRO
42	SE	89	PRO
41	SF	402	GLY
41	SL	269	GLY
42	TI	131	GLY
42	VK	131	GLY
41	WH	261	PRO
17	3F	85	ILE
32	5O	9	PRO
33	5X	325	PRO
34	6A	215	VAL
34	6B	281	VAL
34	6D	409	ILE
34	6E	407	PRO
41	AH	87	PRO
41	AL	86	ARG
41	BD	141	GLY
42	BI	131	GLY
42	BI	306	ASP
42	DC	74	VAL
41	DL	160	PRO
41	DL	272	PRO
42	EE	360	PRO
42	EG	144	GLY
41	EH	305	PRO
42	EK	162	GLY
42	FK	350	GLY

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Mol	Chain	Res	Type
41	FL	333	VAL
42	GM	219	ILE
42	GM	298	PRO
42	HC	274	PRO
41	HD	144	GLY
41	HJ	202	ILE
42	HM	72	PRO
41	JL	182	PRO
41	LD	173	PRO
41	NB	146	GLY
42	NC	59	GLY
41	NF	160	PRO
42	NG	66	VAL
42	NK	263	PRO
42	NK	303	VAL
41	NL	34	GLY
42	OE	261	PRO
42	PC	148	GLY
42	PC	265	ILE
41	PD	182	PRO
41	PD	271	ALA
42	PE	235	VAL
41	PF	277	GLY
42	PG	34	GLY
42	PG	435	VAL
41	PH	210	ILE
41	PH	272	PRO
41	PJ	360	GLY
42	PK	355	ILE
41	PL	182	PRO
41	PL	287	PRO
41	PL	374	ILE
41	QH	82	GLY
41	QH	259	PRO
41	QJ	169	VAL
41	QL	64	VAL
41	QL	82	GLY
41	QL	402	GLY
41	RJ	109	GLY
41	RJ	272	PRO
41	RJ	349	VAL
42	SE	275	VAL

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Mol	Chain	Res	Type
41	SF	5	VAL
41	SF	98	GLY
42	SK	265	ILE
41	TH	70	PRO
42	TK	362	VAL
42	TM	384	ILE
42	UC	265	ILE
42	VE	261	PRO
42	WI	173	PRO
41	WJ	175	VAL
22	3Z	245	PRO
38	7H	145	GLY
41	BD	261	PRO
42	CC	159	VAL
41	CF	34	GLY
41	CJ	268	PRO
42	DK	131	GLY
42	FK	30	ILE
42	FK	74	VAL
41	GD	146	GLY
41	GJ	84	ILE
41	GJ	180	VAL
41	HH	305	PRO
42	HM	273	ALA
41	JL	34	GLY
41	MD	255	VAL
41	ND	71	GLY
42	NI	364	PRO
41	OB	326	VAL
42	OG	412	GLY
42	PA	250	VAL
42	PC	32	PRO
42	PC	409	VAL
42	PI	59	GLY
41	PJ	316	VAL
41	PJ	402	GLY
42	TM	110	ILE
42	VK	341	ILE

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	1D	123/611 (20%)	105 (85%)	18 (15%)	2	15
2	1E	176/611 (29%)	157 (89%)	19 (11%)	5	24
2	1F	78/611 (13%)	78 (100%)	0	100	100
3	1H	72/486 (15%)	72 (100%)	0	100	100
3	1I	342/486 (70%)	338 (99%)	4 (1%)	67	82
4	1K	147/182 (81%)	145 (99%)	2 (1%)	62	79
4	1L	31/182 (17%)	31 (100%)	0	100	100
5	1N	95/168 (56%)	95 (100%)	0	100	100
5	1O	97/168 (58%)	97 (100%)	0	100	100
5	1P	99/168 (59%)	98 (99%)	1 (1%)	73	84
6	1R	83/92 (90%)	83 (100%)	0	100	100
7	1T	223/281 (79%)	221 (99%)	2 (1%)	75	86
7	1U	223/281 (79%)	221 (99%)	2 (1%)	75	86
8	1W	128/180 (71%)	82 (64%)	46 (36%)	0	1
8	1X	172/180 (96%)	171 (99%)	1 (1%)	84	91
8	1Y	172/180 (96%)	169 (98%)	3 (2%)	56	75
8	1Z	172/180 (96%)	172 (100%)	0	100	100
8	2A	172/180 (96%)	159 (92%)	13 (8%)	11	35
8	2B	172/180 (96%)	172 (100%)	0	100	100
9	2D	392/750 (52%)	390 (100%)	2 (0%)	86	92
9	2E	91/750 (12%)	91 (100%)	0	100	100
10	2F	69/152 (45%)	68 (99%)	1 (1%)	62	79
10	2G	69/152 (45%)	69 (100%)	0	100	100
10	2H	69/152 (45%)	67 (97%)	2 (3%)	37	63
11	2J	150/495 (30%)	149 (99%)	1 (1%)	81	89
11	2K	268/495 (54%)	254 (95%)	14 (5%)	19	47

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
11	2L	256/495 (52%)	251 (98%)	5 (2%)	50	71
11	2M	162/495 (33%)	160 (99%)	2 (1%)	67	82
12	2O	515/527 (98%)	513 (100%)	2 (0%)	89	94
12	2P	515/527 (98%)	513 (100%)	2 (0%)	89	94
12	2Q	515/527 (98%)	513 (100%)	2 (0%)	89	94
13	2S	175/469 (37%)	172 (98%)	3 (2%)	56	75
13	2T	183/469 (39%)	147 (80%)	36 (20%)	1	6
14	2V	29/252 (12%)	29 (100%)	0	100	100
14	2W	189/252 (75%)	188 (100%)	1 (0%)	86	92
14	2X	184/252 (73%)	184 (100%)	0	100	100
14	2Y	144/252 (57%)	143 (99%)	1 (1%)	81	89
15	3A	165/208 (79%)	161 (98%)	4 (2%)	44	68
16	3C	182/264 (69%)	176 (97%)	6 (3%)	33	60
16	3D	58/264 (22%)	58 (100%)	0	100	100
19	3J	391/574 (68%)	389 (100%)	2 (0%)	86	92
19	3K	400/574 (70%)	398 (100%)	2 (0%)	86	92
19	3L	409/574 (71%)	406 (99%)	3 (1%)	81	89
20	3N	264/672 (39%)	262 (99%)	2 (1%)	79	87
20	3O	532/672 (79%)	530 (100%)	2 (0%)	89	94
20	3P	532/672 (79%)	529 (99%)	3 (1%)	84	91
20	3Q	268/672 (40%)	266 (99%)	2 (1%)	81	89
21	3S	62/238 (26%)	62 (100%)	0	100	100
21	3T	218/238 (92%)	216 (99%)	2 (1%)	75	86
21	3U	218/238 (92%)	215 (99%)	3 (1%)	62	79
21	3V	191/238 (80%)	191 (100%)	0	100	100
22	3X	106/231 (46%)	106 (100%)	0	100	100
22	3Y	116/231 (50%)	107 (92%)	9 (8%)	10	34
22	3Z	108/231 (47%)	108 (100%)	0	100	100
22	4A	89/231 (38%)	89 (100%)	0	100	100
22	4B	87/231 (38%)	87 (100%)	0	100	100
22	4C	70/231 (30%)	70 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
23	4D	107/121 (88%)	107 (100%)	0	100	100
24	4F	131/450 (29%)	104 (79%)	27 (21%)	1	5
24	4G	306/450 (68%)	304 (99%)	2 (1%)	81	89
25	4I	191/324 (59%)	190 (100%)	1 (0%)	86	92
25	4J	319/324 (98%)	312 (98%)	7 (2%)	47	69
26	4K	118/551 (21%)	117 (99%)	1 (1%)	79	87
26	4L	206/551 (37%)	205 (100%)	1 (0%)	86	92
26	4M	95/551 (17%)	95 (100%)	0	100	100
27	4O	192/227 (85%)	192 (100%)	0	100	100
27	4P	192/227 (85%)	191 (100%)	1 (0%)	86	92
27	4Q	192/227 (85%)	192 (100%)	0	100	100
27	4R	192/227 (85%)	140 (73%)	52 (27%)	0	2
27	4S	192/227 (85%)	192 (100%)	0	100	100
27	4T	192/227 (85%)	180 (94%)	12 (6%)	15	42
28	4V	36/122 (30%)	36 (100%)	0	100	100
28	4W	70/122 (57%)	69 (99%)	1 (1%)	62	79
29	4Y	91/114 (80%)	91 (100%)	0	100	100
30	5A	311/335 (93%)	308 (99%)	3 (1%)	73	84
30	5B	14/335 (4%)	14 (100%)	0	100	100
31	5D	145/154 (94%)	145 (100%)	0	100	100
31	5E	144/154 (94%)	135 (94%)	9 (6%)	15	42
31	5F	147/154 (96%)	147 (100%)	0	100	100
31	5G	145/154 (94%)	144 (99%)	1 (1%)	81	89
31	5H	145/154 (94%)	144 (99%)	1 (1%)	81	89
31	5I	145/154 (94%)	145 (100%)	0	100	100
31	5J	145/154 (94%)	145 (100%)	0	100	100
32	5L	103/382 (27%)	103 (100%)	0	100	100
32	5M	363/382 (95%)	357 (98%)	6 (2%)	56	75
32	5N	363/382 (95%)	360 (99%)	3 (1%)	79	87
32	5O	274/382 (72%)	174 (64%)	100 (36%)	0	1
33	5Q	103/386 (27%)	103 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
33	5R	357/386 (92%)	356 (100%)	1 (0%)	91	96
33	5S	357/386 (92%)	301 (84%)	56 (16%)	2	13
33	5T	271/386 (70%)	159 (59%)	112 (41%)	0	0
33	5V	271/386 (70%)	257 (95%)	14 (5%)	19	47
33	5W	366/386 (95%)	360 (98%)	6 (2%)	58	75
33	5X	366/386 (95%)	364 (100%)	2 (0%)	86	92
33	5Y	99/386 (26%)	93 (94%)	6 (6%)	15	42
34	6A	249/444 (56%)	151 (61%)	98 (39%)	0	1
34	6B	354/444 (80%)	324 (92%)	30 (8%)	8	32
34	6C	355/444 (80%)	225 (63%)	130 (37%)	0	1
34	6D	110/444 (25%)	69 (63%)	41 (37%)	0	1
34	6E	55/444 (12%)	43 (78%)	12 (22%)	1	4
34	6F	320/444 (72%)	308 (96%)	12 (4%)	28	57
34	6G	378/444 (85%)	376 (100%)	2 (0%)	86	92
34	6H	333/444 (75%)	330 (99%)	3 (1%)	75	86
34	6I	63/444 (14%)	63 (100%)	0	100	100
34	6J	63/444 (14%)	63 (100%)	0	100	100
34	6K	335/444 (76%)	334 (100%)	1 (0%)	91	96
34	6L	378/444 (85%)	362 (96%)	16 (4%)	25	54
34	6M	323/444 (73%)	323 (100%)	0	100	100
34	6N	50/444 (11%)	50 (100%)	0	100	100
35	6P	158/394 (40%)	158 (100%)	0	100	100
35	6Q	363/394 (92%)	362 (100%)	1 (0%)	91	96
35	6R	363/394 (92%)	334 (92%)	29 (8%)	10	33
35	6S	226/394 (57%)	202 (89%)	24 (11%)	5	24
35	6T	209/394 (53%)	208 (100%)	1 (0%)	86	92
35	6U	365/394 (93%)	364 (100%)	1 (0%)	91	96
35	6V	386/394 (98%)	360 (93%)	26 (7%)	13	40
35	6W	189/394 (48%)	178 (94%)	11 (6%)	17	44
36	6Y	97/593 (16%)	96 (99%)	1 (1%)	73	84
36	6Z	97/593 (16%)	96 (99%)	1 (1%)	73	84

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
37	7C	98/215 (46%)	97 (99%)	1 (1%)	73	84
37	7D	66/215 (31%)	66 (100%)	0	100	100
37	7E	65/215 (30%)	65 (100%)	0	100	100
37	7F	56/215 (26%)	50 (89%)	6 (11%)	5	24
38	7H	66/239 (28%)	66 (100%)	0	100	100
38	7I	25/239 (10%)	24 (96%)	1 (4%)	27	55
39	7K	93/126 (74%)	93 (100%)	0	100	100
39	7L	41/126 (32%)	41 (100%)	0	100	100
40	7N	62/397 (16%)	62 (100%)	0	100	100
41	AB	373/380 (98%)	371 (100%)	2 (0%)	86	92
41	AD	373/380 (98%)	372 (100%)	1 (0%)	91	96
41	AF	373/380 (98%)	372 (100%)	1 (0%)	91	96
41	AH	373/380 (98%)	268 (72%)	105 (28%)	0	2
41	AJ	373/380 (98%)	373 (100%)	0	100	100
41	AL	373/380 (98%)	267 (72%)	106 (28%)	0	2
41	BB	367/380 (97%)	367 (100%)	0	100	100
41	BD	367/380 (97%)	245 (67%)	122 (33%)	0	1
41	BF	367/380 (97%)	366 (100%)	1 (0%)	91	96
41	BH	367/380 (97%)	363 (99%)	4 (1%)	70	83
41	BJ	367/380 (97%)	365 (100%)	2 (0%)	86	92
41	BL	365/380 (96%)	361 (99%)	4 (1%)	70	83
41	CB	366/380 (96%)	366 (100%)	0	100	100
41	CD	366/380 (96%)	225 (62%)	141 (38%)	0	1
41	CF	367/380 (97%)	229 (62%)	138 (38%)	0	1
41	CH	367/380 (97%)	366 (100%)	1 (0%)	91	96
41	CJ	367/380 (97%)	238 (65%)	129 (35%)	0	1
41	CL	365/380 (96%)	364 (100%)	1 (0%)	91	96
41	DB	366/380 (96%)	364 (100%)	2 (0%)	86	92
41	DD	366/380 (96%)	366 (100%)	0	100	100
41	DF	366/380 (96%)	366 (100%)	0	100	100
41	DH	366/380 (96%)	246 (67%)	120 (33%)	0	1

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
41	DJ	366/380 (96%)	242 (66%)	124 (34%)	0	1
41	DL	365/380 (96%)	344 (94%)	21 (6%)	17	44
41	ED	366/380 (96%)	258 (70%)	108 (30%)	0	2
41	EF	366/380 (96%)	366 (100%)	0	100	100
41	EH	367/380 (97%)	365 (100%)	2 (0%)	86	92
41	EJ	366/380 (96%)	363 (99%)	3 (1%)	79	87
41	EL	365/380 (96%)	344 (94%)	21 (6%)	17	44
41	FD	367/380 (97%)	233 (64%)	134 (36%)	0	1
41	FF	366/380 (96%)	356 (97%)	10 (3%)	40	65
41	FH	366/380 (96%)	366 (100%)	0	100	100
41	FJ	366/380 (96%)	363 (99%)	3 (1%)	79	87
41	FL	365/380 (96%)	237 (65%)	128 (35%)	0	1
41	GD	367/380 (97%)	250 (68%)	117 (32%)	0	2
41	GF	367/380 (97%)	366 (100%)	1 (0%)	91	96
41	GH	367/380 (97%)	366 (100%)	1 (0%)	91	96
41	GJ	367/380 (97%)	249 (68%)	118 (32%)	0	1
41	GL	365/380 (96%)	365 (100%)	0	100	100
41	HB	366/380 (96%)	359 (98%)	7 (2%)	52	73
41	HD	367/380 (97%)	251 (68%)	116 (32%)	0	2
41	HF	367/380 (97%)	366 (100%)	1 (0%)	91	96
41	HH	367/380 (97%)	364 (99%)	3 (1%)	79	87
41	HJ	367/380 (97%)	245 (67%)	122 (33%)	0	1
41	HL	365/380 (96%)	364 (100%)	1 (0%)	91	96
41	ID	367/380 (97%)	367 (100%)	0	100	100
41	IF	367/380 (97%)	367 (100%)	0	100	100
41	IH	367/380 (97%)	366 (100%)	1 (0%)	91	96
41	IJ	367/380 (97%)	366 (100%)	1 (0%)	91	96
41	IL	366/380 (96%)	365 (100%)	1 (0%)	91	96
41	IN	367/380 (97%)	257 (70%)	110 (30%)	0	2
41	JD	367/380 (97%)	357 (97%)	10 (3%)	40	65
41	JF	366/380 (96%)	365 (100%)	1 (0%)	91	96

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
41	JH	366/380 (96%)	364 (100%)	2 (0%)	86	92
41	JJ	366/380 (96%)	365 (100%)	1 (0%)	91	96
41	JL	366/380 (96%)	258 (70%)	108 (30%)	0	2
41	KD	367/380 (97%)	365 (100%)	2 (0%)	86	92
41	KF	367/380 (97%)	367 (100%)	0	100	100
41	KH	368/380 (97%)	367 (100%)	1 (0%)	91	96
41	KJ	366/380 (96%)	366 (100%)	0	100	100
41	KL	368/380 (97%)	368 (100%)	0	100	100
41	KN	367/380 (97%)	364 (99%)	3 (1%)	79	87
41	LD	367/380 (97%)	276 (75%)	91 (25%)	0	3
41	LF	367/380 (97%)	365 (100%)	2 (0%)	86	92
41	LH	367/380 (97%)	367 (100%)	0	100	100
41	LJ	367/380 (97%)	365 (100%)	2 (0%)	86	92
41	LL	366/380 (96%)	366 (100%)	0	100	100
41	LN	367/380 (97%)	366 (100%)	1 (0%)	91	96
41	MD	366/380 (96%)	246 (67%)	120 (33%)	0	1
41	MF	367/380 (97%)	224 (61%)	143 (39%)	0	1
41	MH	367/380 (97%)	367 (100%)	0	100	100
41	MJ	366/380 (96%)	365 (100%)	1 (0%)	91	96
41	ML	366/380 (96%)	365 (100%)	1 (0%)	91	96
41	MN	366/380 (96%)	232 (63%)	134 (37%)	0	1
41	NB	367/380 (97%)	257 (70%)	110 (30%)	0	2
41	ND	367/380 (97%)	237 (65%)	130 (35%)	0	1
41	NF	367/380 (97%)	239 (65%)	128 (35%)	0	1
41	NH	367/380 (97%)	244 (66%)	123 (34%)	0	1
41	NJ	367/380 (97%)	362 (99%)	5 (1%)	62	79
41	NL	339/380 (89%)	337 (99%)	2 (1%)	84	91
41	OB	365/380 (96%)	247 (68%)	118 (32%)	0	1
41	OD	364/380 (96%)	364 (100%)	0	100	100
41	OF	365/380 (96%)	358 (98%)	7 (2%)	52	73
41	OH	367/380 (97%)	244 (66%)	123 (34%)	0	1

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
41	OJ	367/380 (97%)	236 (64%)	131 (36%)	0	1
41	OL	364/380 (96%)	364 (100%)	0	100	100
41	PB	367/380 (97%)	231 (63%)	136 (37%)	0	1
41	PD	367/380 (97%)	236 (64%)	131 (36%)	0	1
41	PF	367/380 (97%)	242 (66%)	125 (34%)	0	1
41	PH	367/380 (97%)	222 (60%)	145 (40%)	0	1
41	PJ	367/380 (97%)	216 (59%)	151 (41%)	0	1
41	PL	365/380 (96%)	228 (62%)	137 (38%)	0	1
41	QB	367/380 (97%)	366 (100%)	1 (0%)	91	96
41	QD	367/380 (97%)	367 (100%)	0	100	100
41	QF	367/380 (97%)	365 (100%)	2 (0%)	86	92
41	QH	367/380 (97%)	237 (65%)	130 (35%)	0	1
41	QJ	367/380 (97%)	225 (61%)	142 (39%)	0	1
41	QL	366/380 (96%)	241 (66%)	125 (34%)	0	1
41	RB	367/380 (97%)	367 (100%)	0	100	100
41	RD	367/380 (97%)	230 (63%)	137 (37%)	0	1
41	RF	367/380 (97%)	215 (59%)	152 (41%)	0	0
41	RH	367/380 (97%)	366 (100%)	1 (0%)	91	96
41	RJ	367/380 (97%)	238 (65%)	129 (35%)	0	1
41	RL	366/380 (96%)	364 (100%)	2 (0%)	86	92
41	SD	367/380 (97%)	366 (100%)	1 (0%)	91	96
41	SF	367/380 (97%)	246 (67%)	121 (33%)	0	1
41	SH	367/380 (97%)	366 (100%)	1 (0%)	91	96
41	SJ	367/380 (97%)	362 (99%)	5 (1%)	62	79
41	SL	366/380 (96%)	239 (65%)	127 (35%)	0	1
41	TD	367/380 (97%)	365 (100%)	2 (0%)	86	92
41	TF	367/380 (97%)	367 (100%)	0	100	100
41	TH	367/380 (97%)	363 (99%)	4 (1%)	70	83
41	TJ	367/380 (97%)	358 (98%)	9 (2%)	42	67
41	TL	366/380 (96%)	366 (100%)	0	100	100
41	UD	367/380 (97%)	360 (98%)	7 (2%)	52	73

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
41	UF	367/380 (97%)	366 (100%)	1 (0%)	91	96
41	UH	367/380 (97%)	365 (100%)	2 (0%)	86	92
41	UJ	367/380 (97%)	366 (100%)	1 (0%)	91	96
41	UL	366/380 (96%)	353 (96%)	13 (4%)	30	58
41	VD	367/380 (97%)	367 (100%)	0	100	100
41	VF	367/380 (97%)	352 (96%)	15 (4%)	26	54
41	VH	367/380 (97%)	365 (100%)	2 (0%)	86	92
41	VJ	367/380 (97%)	361 (98%)	6 (2%)	58	75
41	VL	366/380 (96%)	366 (100%)	0	100	100
41	WD	367/380 (97%)	367 (100%)	0	100	100
41	WF	366/380 (96%)	239 (65%)	127 (35%)	0	1
41	WH	366/380 (96%)	264 (72%)	102 (28%)	0	2
41	WJ	366/380 (96%)	359 (98%)	7 (2%)	52	73
41	WL	366/380 (96%)	364 (100%)	2 (0%)	86	92
41	WN	366/380 (96%)	365 (100%)	1 (0%)	91	96
42	AC	370/379 (98%)	367 (99%)	3 (1%)	79	87
42	AE	370/379 (98%)	369 (100%)	1 (0%)	91	96
42	AG	370/379 (98%)	362 (98%)	8 (2%)	47	69
42	AI	370/379 (98%)	265 (72%)	105 (28%)	0	2
42	AK	370/379 (98%)	262 (71%)	108 (29%)	0	2
42	BC	370/379 (98%)	369 (100%)	1 (0%)	91	96
42	BE	366/379 (97%)	362 (99%)	4 (1%)	70	83
42	BG	370/379 (98%)	358 (97%)	12 (3%)	34	61
42	BI	363/379 (96%)	259 (71%)	104 (29%)	0	2
42	BK	369/379 (97%)	369 (100%)	0	100	100
42	CC	368/379 (97%)	240 (65%)	128 (35%)	0	1
42	CE	368/379 (97%)	368 (100%)	0	100	100
42	CG	369/379 (97%)	239 (65%)	130 (35%)	0	1
42	CI	369/379 (97%)	369 (100%)	0	100	100
42	CK	369/379 (97%)	369 (100%)	0	100	100
42	CM	369/379 (97%)	368 (100%)	1 (0%)	91	96

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
42	DC	362/379 (96%)	359 (99%)	3 (1%)	79	87
42	DE	363/379 (96%)	363 (100%)	0	100	100
42	DG	364/379 (96%)	362 (100%)	2 (0%)	86	92
42	DI	362/379 (96%)	362 (100%)	0	100	100
42	DK	363/379 (96%)	258 (71%)	105 (29%)	0	2
42	DM	363/379 (96%)	363 (100%)	0	100	100
42	EC	369/379 (97%)	368 (100%)	1 (0%)	91	96
42	EE	371/379 (98%)	260 (70%)	111 (30%)	0	2
42	EG	367/379 (97%)	258 (70%)	109 (30%)	0	2
42	EI	366/379 (97%)	365 (100%)	1 (0%)	91	96
42	EK	370/379 (98%)	232 (63%)	138 (37%)	0	1
42	EM	361/379 (95%)	228 (63%)	133 (37%)	0	1
42	FC	364/379 (96%)	217 (60%)	147 (40%)	0	1
42	FE	359/379 (95%)	359 (100%)	0	100	100
42	FG	360/379 (95%)	354 (98%)	6 (2%)	56	75
42	FI	360/379 (95%)	357 (99%)	3 (1%)	79	87
42	FK	358/379 (94%)	219 (61%)	139 (39%)	0	1
42	FM	362/379 (96%)	360 (99%)	2 (1%)	84	91
42	GC	370/379 (98%)	368 (100%)	2 (0%)	86	92
42	GE	363/379 (96%)	362 (100%)	1 (0%)	91	96
42	GG	366/379 (97%)	364 (100%)	2 (0%)	86	92
42	GI	362/379 (96%)	361 (100%)	1 (0%)	91	96
42	GK	362/379 (96%)	361 (100%)	1 (0%)	91	96
42	GM	369/379 (97%)	232 (63%)	137 (37%)	0	1
42	HC	360/379 (95%)	230 (64%)	130 (36%)	0	1
42	HE	363/379 (96%)	361 (99%)	2 (1%)	84	91
42	HG	363/379 (96%)	256 (70%)	107 (30%)	0	2
42	HI	363/379 (96%)	230 (63%)	133 (37%)	0	1
42	HK	364/379 (96%)	360 (99%)	4 (1%)	70	83
42	HM	362/379 (96%)	256 (71%)	106 (29%)	0	2
42	IC	362/379 (96%)	357 (99%)	5 (1%)	62	79

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
42	IE	365/379 (96%)	233 (64%)	132 (36%)	0	1
42	IG	370/379 (98%)	370 (100%)	0	100	100
42	II	365/379 (96%)	365 (100%)	0	100	100
42	IK	370/379 (98%)	369 (100%)	1 (0%)	91	96
42	IM	364/379 (96%)	364 (100%)	0	100	100
42	JC	364/379 (96%)	363 (100%)	1 (0%)	91	96
42	JE	363/379 (96%)	360 (99%)	3 (1%)	79	87
42	JG	361/379 (95%)	359 (99%)	2 (1%)	84	91
42	JI	362/379 (96%)	362 (100%)	0	100	100
42	JK	370/379 (98%)	233 (63%)	137 (37%)	0	1
42	JM	363/379 (96%)	240 (66%)	123 (34%)	0	1
42	KC	364/379 (96%)	363 (100%)	1 (0%)	91	96
42	KE	364/379 (96%)	364 (100%)	0	100	100
42	KG	362/379 (96%)	361 (100%)	1 (0%)	91	96
42	KI	361/379 (95%)	360 (100%)	1 (0%)	91	96
42	KK	363/379 (96%)	362 (100%)	1 (0%)	91	96
42	KM	362/379 (96%)	265 (73%)	97 (27%)	0	2
42	LC	366/379 (97%)	365 (100%)	1 (0%)	91	96
42	LE	370/379 (98%)	368 (100%)	2 (0%)	86	92
42	LG	366/379 (97%)	366 (100%)	0	100	100
42	LI	366/379 (97%)	365 (100%)	1 (0%)	91	96
42	LK	366/379 (97%)	366 (100%)	0	100	100
42	LM	364/379 (96%)	364 (100%)	0	100	100
42	MC	369/379 (97%)	367 (100%)	2 (0%)	86	92
42	ME	362/379 (96%)	361 (100%)	1 (0%)	91	96
42	MG	363/379 (96%)	262 (72%)	101 (28%)	0	2
42	MI	364/379 (96%)	363 (100%)	1 (0%)	91	96
42	MK	370/379 (98%)	367 (99%)	3 (1%)	79	87
42	MM	363/379 (96%)	363 (100%)	0	100	100
42	NA	363/379 (96%)	224 (62%)	139 (38%)	0	1
42	NC	362/379 (96%)	252 (70%)	110 (30%)	0	2

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
42	NE	363/379 (96%)	361 (99%)	2 (1%)	84	91
42	NG	365/379 (96%)	241 (66%)	124 (34%)	0	1
42	NI	365/379 (96%)	235 (64%)	130 (36%)	0	1
42	NK	363/379 (96%)	246 (68%)	117 (32%)	0	1
42	OA	361/379 (95%)	360 (100%)	1 (0%)	91	96
42	OC	362/379 (96%)	362 (100%)	0	100	100
42	OE	366/379 (97%)	363 (99%)	3 (1%)	79	87
42	OG	365/379 (96%)	239 (66%)	126 (34%)	0	1
42	OI	365/379 (96%)	364 (100%)	1 (0%)	91	96
42	OK	364/379 (96%)	363 (100%)	1 (0%)	91	96
42	PA	314/379 (83%)	196 (62%)	118 (38%)	0	1
42	PC	365/379 (96%)	234 (64%)	131 (36%)	0	1
42	PE	364/379 (96%)	238 (65%)	126 (35%)	0	1
42	PG	363/379 (96%)	227 (62%)	136 (38%)	0	1
42	PI	360/379 (95%)	222 (62%)	138 (38%)	0	1
42	PK	363/379 (96%)	248 (68%)	115 (32%)	0	2
42	QC	363/379 (96%)	362 (100%)	1 (0%)	91	96
42	QE	363/379 (96%)	360 (99%)	3 (1%)	79	87
42	QG	364/379 (96%)	363 (100%)	1 (0%)	91	96
42	QI	362/379 (96%)	238 (66%)	124 (34%)	0	1
42	QK	364/379 (96%)	243 (67%)	121 (33%)	0	1
42	RC	365/379 (96%)	363 (100%)	2 (0%)	86	92
42	RE	361/379 (95%)	360 (100%)	1 (0%)	91	96
42	RG	363/379 (96%)	361 (99%)	2 (1%)	84	91
42	RI	364/379 (96%)	363 (100%)	1 (0%)	91	96
42	RK	364/379 (96%)	363 (100%)	1 (0%)	91	96
42	SC	363/379 (96%)	361 (99%)	2 (1%)	84	91
42	SE	364/379 (96%)	258 (71%)	106 (29%)	0	2
42	SG	364/379 (96%)	363 (100%)	1 (0%)	91	96
42	SI	363/379 (96%)	231 (64%)	132 (36%)	0	1
42	SK	365/379 (96%)	364 (100%)	1 (0%)	91	96

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
42	SM	364/379 (96%)	362 (100%)	2 (0%)	86	92
42	TC	363/379 (96%)	362 (100%)	1 (0%)	91	96
42	TE	365/379 (96%)	364 (100%)	1 (0%)	91	96
42	TG	363/379 (96%)	363 (100%)	0	100	100
42	TI	363/379 (96%)	239 (66%)	124 (34%)	0	1
42	TK	365/379 (96%)	248 (68%)	117 (32%)	0	1
42	TM	363/379 (96%)	361 (99%)	2 (1%)	84	91
42	UC	366/379 (97%)	245 (67%)	121 (33%)	0	1
42	UE	365/379 (96%)	364 (100%)	1 (0%)	91	96
42	UG	366/379 (97%)	344 (94%)	22 (6%)	16	43
42	UI	366/379 (97%)	365 (100%)	1 (0%)	91	96
42	UK	365/379 (96%)	357 (98%)	8 (2%)	47	69
42	UM	364/379 (96%)	359 (99%)	5 (1%)	62	79
42	VC	370/379 (98%)	369 (100%)	1 (0%)	91	96
42	VE	366/379 (97%)	365 (100%)	1 (0%)	91	96
42	VG	370/379 (98%)	369 (100%)	1 (0%)	91	96
42	VI	366/379 (97%)	364 (100%)	2 (0%)	86	92
42	VK	370/379 (98%)	253 (68%)	117 (32%)	0	2
42	VM	363/379 (96%)	363 (100%)	0	100	100
42	WC	370/379 (98%)	370 (100%)	0	100	100
42	WE	364/379 (96%)	274 (75%)	90 (25%)	0	3
42	WG	369/379 (97%)	367 (100%)	2 (0%)	86	92
42	WI	364/379 (96%)	269 (74%)	95 (26%)	0	3
42	WK	368/379 (97%)	367 (100%)	1 (0%)	91	96
42	WM	364/379 (96%)	364 (100%)	0	100	100
All	All	121565/144487 (84%)	109251 (90%)	12314 (10%)	9	26

All (12314) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	1D	142	GLN
2	1D	144	ASP
2	1D	145	LYS

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Mol	Chain	Res	Type
2	1D	146	VAL
2	1D	147	LYS
2	1D	148	SER
2	1D	150	ARG
2	1D	151	ARG
2	1D	153	LYS
2	1D	157	ASN
2	1D	160	ASP
2	1D	161	LYS
2	1D	164	CYS
2	1D	165	ARG
2	1D	170	LEU
2	1D	172	GLN
2	1D	173	ASN
2	1D	176	LEU
2	1E	52	ARG
2	1E	55	LYS
2	1E	150	ARG
2	1E	151	ARG
2	1E	153	LYS
2	1E	158	GLN
2	1E	159	LEU
2	1E	161	LYS
2	1E	163	ILE
2	1E	164	CYS
2	1E	165	ARG
2	1E	169	GLN
2	1E	173	ASN
2	1E	175	THR
2	1E	176	LEU
2	1E	177	ARG
2	1E	180	LEU
2	1E	181	ASP
2	1E	183	LEU
3	1I	98	LYS
3	1I	142	GLN
3	1I	232	LYS
3	1I	322	ARG
4	1K	81	LYS
4	1K	148	LYS
5	1P	98	LYS
7	1T	255	HIS

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Mol	Chain	Res	Type
7	1T	261	LYS
7	1U	16	ASN
7	1U	256	ARG
8	1W	3	LYS
8	1W	8	SER
8	1W	10	PHE
8	1W	11	LEU
8	1W	20	LYS
8	1W	23	GLN
8	1W	26	ASP
8	1W	27	LYS
8	1W	59	ILE
8	1W	60	THR
8	1W	66	LYS
8	1W	67	LYS
8	1W	69	LEU
8	1W	71	ILE
8	1W	78	MET
8	1W	88	THR
8	1W	91	VAL
8	1W	94	LEU
8	1W	95	ASP
8	1W	99	VAL
8	1W	102	ARG
8	1W	103	PHE
8	1W	109	GLN
8	1W	113	ARG
8	1W	115	LYS
8	1W	118	ILE
8	1W	121	MET
8	1W	123	MET
8	1W	124	ARG
8	1W	130	ASN
8	1W	131	GLN
8	1W	132	ILE
8	1W	138	ASP
8	1W	141	ARG
8	1W	151	THR
8	1W	153	ARG
8	1W	154	VAL
8	1W	169	ASP
8	1W	170	ARG

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Mol	Chain	Res	Type
8	1W	171	LEU
8	1W	173	SER
8	1W	174	GLU
8	1W	175	ASP
8	1W	180	GLU
8	1W	182	LYS
8	1W	184	TYR
8	1X	115	LYS
8	1Y	100	ARG
8	1Y	113	ARG
8	1Y	170	ARG
8	2A	88	THR
8	2A	91	VAL
8	2A	96	ASP
8	2A	99	VAL
8	2A	101	ARG
8	2A	102	ARG
8	2A	112	THR
8	2A	115	LYS
8	2A	121	MET
8	2A	123	MET
8	2A	124	ARG
8	2A	125	LEU
8	2A	170	ARG
9	2D	488	ARG
9	2D	668	ASN
10	2F	128	ASN
10	2H	69	LYS
10	2H	81	ASN
11	2J	224	LYS
11	2K	236	LYS
11	2K	246	ARG
11	2K	254	ARG
11	2K	306	LYS
11	2K	369	ARG
11	2K	402	ARG
11	2K	403	LYS
11	2K	405	LYS
11	2K	406	GLU
11	2K	411	LYS
11	2K	418	LEU
11	2K	419	ARG

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Mol	Chain	Res	Type
11	2K	420	LYS
11	2K	423	LEU
11	2L	86	ARG
11	2L	109	ARG
11	2L	249	ARG
11	2L	314	LYS
11	2L	315	ARG
11	2M	369	ARG
11	2M	518	LYS
12	2O	60	GLN
12	2O	160	ASN
12	2P	114	LYS
12	2P	212	MET
12	2Q	173	ARG
12	2Q	238	ARG
13	2S	152	LYS
13	2S	191	LYS
13	2S	298	ARG
13	2T	382	GLU
13	2T	384	GLU
13	2T	387	LYS
13	2T	388	GLN
13	2T	389	LEU
13	2T	390	LEU
13	2T	392	GLU
13	2T	393	VAL
13	2T	395	CYS
13	2T	397	ARG
13	2T	398	LYS
13	2T	400	GLN
13	2T	401	VAL
13	2T	402	GLN
13	2T	404	LYS
13	2T	405	LEU
13	2T	406	GLN
13	2T	407	ARG
13	2T	408	LYS
13	2T	414	GLU
13	2T	415	ARG
13	2T	416	THR
13	2T	417	MET
13	2T	422	ILE

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Mol	Chain	Res	Type
13	2T	424	GLU
13	2T	427	LYS
13	2T	428	GLU
13	2T	431	CYS
13	2T	432	GLU
13	2T	433	GLU
13	2T	434	ARG
13	2T	437	PHE
13	2T	438	ILE
13	2T	439	ARG
13	2T	440	ARG
13	2T	443	LEU
14	2W	72	ARG
14	2Y	90	ARG
15	3A	94	ARG
15	3A	99	GLN
15	3A	102	LEU
15	3A	103	ASN
16	3C	42	LYS
16	3C	147	LYS
16	3C	150	THR
16	3C	158	THR
16	3C	161	LYS
16	3C	162	GLN
19	3J	145	GLN
19	3J	159	ARG
19	3K	188	LYS
19	3K	352	ARG
19	3L	206	LYS
19	3L	281	ARG
19	3L	474	LYS
20	3N	184	LYS
20	3N	351	ARG
20	3O	335	ARG
20	3O	615	LYS
20	3P	283	GLN
20	3P	546	ARG
20	3P	591	ARG
20	3Q	353	LYS
20	3Q	550	GLN
21	3T	86	ARG
21	3T	184	ARG

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Mol	Chain	Res	Type
21	3U	88	LYS
21	3U	205	LYS
21	3U	249	LYS
22	3Y	21	THR
22	3Y	31	MET
22	3Y	34	THR
22	3Y	38	MET
22	3Y	43	LEU
22	3Y	44	ARG
22	3Y	56	ARG
22	3Y	58	LEU
22	3Y	248	LYS
24	4F	10	PHE
24	4F	12	GLU
24	4F	13	ARG
24	4F	14	HIS
24	4F	16	LYS
24	4F	17	LEU
24	4F	19	ASP
24	4F	22	TYR
24	4F	25	LYS
24	4F	33	ARG
24	4F	34	LEU
24	4F	37	GLN
24	4F	39	ARG
24	4F	45	ASN
24	4F	46	GLU
24	4F	49	ASP
24	4F	50	ARG
24	4F	52	GLU
24	4F	54	LYS
24	4F	55	ARG
24	4F	57	LEU
24	4F	59	LEU
24	4F	64	GLN
24	4F	67	LEU
24	4F	71	GLU
24	4F	74	GLN
24	4F	78	GLU
24	4G	250	LYS
24	4G	321	ARG
25	4I	323	ARG

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Mol	Chain	Res	Type
25	4J	41	LYS
25	4J	165	ARG
25	4J	315	GLN
25	4J	323	ARG
25	4J	324	GLU
25	4J	332	GLU
25	4J	335	ARG
26	4K	225	HIS
26	4L	158	ASN
27	4P	141	LYS
27	4R	38	VAL
27	4R	45	LYS
27	4R	49	LYS
27	4R	51	SER
27	4R	52	VAL
27	4R	53	VAL
27	4R	63	LYS
27	4R	67	THR
27	4R	77	GLU
27	4R	85	LEU
27	4R	90	LYS
27	4R	93	LYS
27	4R	100	ILE
27	4R	102	LYS
27	4R	106	HIS
27	4R	109	LEU
27	4R	111	LEU
27	4R	117	CYS
27	4R	119	MET
27	4R	128	ARG
27	4R	136	GLU
27	4R	137	HIS
27	4R	141	LYS
27	4R	142	ILE
27	4R	146	ILE
27	4R	171	VAL
27	4R	175	LEU
27	4R	176	VAL
27	4R	180	GLU
27	4R	181	MET
27	4R	184	GLU
27	4R	186	LEU

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Mol	Chain	Res	Type
27	4R	191	ARG
27	4R	192	GLN
27	4R	197	LEU
27	4R	202	ASN
27	4R	205	VAL
27	4R	206	ASN
27	4R	209	ASP
27	4R	211	ILE
27	4R	212	ASP
27	4R	216	GLN
27	4R	217	LYS
27	4R	220	ASN
27	4R	221	ILE
27	4R	230	GLU
27	4R	233	GLU
27	4R	238	GLU
27	4R	242	ILE
27	4R	253	SER
27	4R	254	CYS
27	4R	255	LEU
27	4T	187	VAL
27	4T	191	ARG
27	4T	192	GLN
27	4T	201	LYS
27	4T	202	ASN
27	4T	205	VAL
27	4T	211	ILE
27	4T	212	ASP
27	4T	216	GLN
27	4T	217	LYS
27	4T	218	ARG
27	4T	220	ASN
28	4W	40	ASN
30	5A	71	GLN
30	5A	107	ARG
30	5A	316	LYS
31	5E	122	VAL
31	5E	126	LEU
31	5E	127	SER
31	5E	128	CYS
31	5E	129	ASP
31	5E	130	GLU

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Mol	Chain	Res	Type
31	5E	134	HIS
31	5E	135	TYR
31	5E	140	SER
31	5G	14	GLN
31	5H	6	LYS
32	5M	77	LEU
32	5M	78	ASP
32	5M	80	LYS
32	5M	84	LEU
32	5M	91	LEU
32	5M	206	ARG
32	5N	206	ARG
32	5N	255	ARG
32	5N	311	LYS
32	5O	10	LYS
32	5O	18	ILE
32	5O	25	HIS
32	5O	31	ARG
32	5O	36	ARG
32	5O	37	LEU
32	5O	42	GLN
32	5O	43	ARG
32	5O	44	LEU
32	5O	49	GLU
32	5O	50	LYS
32	5O	52	THR
32	5O	59	VAL
32	5O	63	LEU
32	5O	67	LEU
32	5O	69	GLU
32	5O	71	ARG
32	5O	74	LYS
32	5O	80	LYS
32	5O	83	GLN
32	5O	89	GLU
32	5O	91	LEU
32	5O	93	LEU
32	5O	98	LEU
32	5O	99	GLN
32	5O	100	LYS
32	5O	102	LEU
32	5O	103	GLU

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Mol	Chain	Res	Type
32	5O	104	SER
32	5O	106	LYS
32	5O	113	GLU
32	5O	114	LYS
32	5O	115	CYS
32	5O	116	LEU
32	5O	117	GLU
32	5O	119	ARG
32	5O	120	GLU
32	5O	121	LYS
32	5O	127	LEU
32	5O	132	VAL
32	5O	141	GLU
32	5O	143	ILE
32	5O	144	ARG
32	5O	148	THR
32	5O	149	LEU
32	5O	150	LEU
32	5O	157	THR
32	5O	161	ILE
32	5O	162	ARG
32	5O	170	ASN
32	5O	171	LEU
32	5O	173	LYS
32	5O	174	ASP
32	5O	175	LEU
32	5O	178	LYS
32	5O	180	THR
32	5O	190	SER
32	5O	191	LEU
32	5O	193	ASN
32	5O	194	ASN
32	5O	195	SER
32	5O	197	ASN
32	5O	198	ILE
32	5O	199	LYS
32	5O	204	VAL
32	5O	208	GLU
32	5O	210	ASN
32	5O	212	VAL
32	5O	214	LEU
32	5O	215	GLU

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Mol	Chain	Res	Type
32	5O	218	LEU
32	5O	219	ASP
32	5O	226	GLU
32	5O	227	LYS
32	5O	229	ASP
32	5O	230	LYS
32	5O	232	ARG
32	5O	239	LYS
32	5O	244	ARG
32	5O	245	ILE
32	5O	246	LEU
32	5O	251	SER
32	5O	253	LEU
32	5O	255	ARG
32	5O	257	CYS
32	5O	258	ASP
32	5O	261	ASP
32	5O	265	LYS
32	5O	268	LEU
32	5O	269	LYS
32	5O	272	LYS
32	5O	379	LYS
32	5O	380	GLU
32	5O	389	LEU
32	5O	390	CYS
32	5O	393	MET
32	5O	394	ARG
32	5O	395	LYS
32	5O	396	SER
32	5O	400	ARG
33	5R	20	ASN
33	5S	3	THR
33	5S	4	LEU
33	5S	6	VAL
33	5S	7	LYS
33	5S	9	SER
33	5S	12	PHE
33	5S	17	TRP
33	5S	18	GLN
33	5S	20	ASN
33	5S	21	SER
33	5S	22	TYR

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Mol	Chain	Res	Type
33	5S	23	LEU
33	5S	24	LEU
33	5S	35	SER
33	5S	38	ILE
33	5S	39	ARG
33	5S	43	ARG
33	5S	45	LEU
33	5S	46	ARG
33	5S	54	ILE
33	5S	64	LEU
33	5S	68	ILE
33	5S	69	ASP
33	5S	74	TRP
33	5S	77	MET
33	5S	130	LYS
33	5S	139	LYS
33	5S	160	GLU
33	5S	165	LEU
33	5S	169	ARG
33	5S	170	GLN
33	5S	171	ARG
33	5S	172	LEU
33	5S	177	ARG
33	5S	179	LYS
33	5S	180	MET
33	5S	185	ILE
33	5S	187	ARG
33	5S	189	CYS
33	5S	190	LEU
33	5S	191	SER
33	5S	193	ASN
33	5S	196	SER
33	5S	199	ILE
33	5S	203	ILE
33	5S	207	ARG
33	5S	208	VAL
33	5S	212	SER
33	5S	215	LEU
33	5S	216	GLN
33	5S	221	LEU
33	5S	223	ARG
33	5S	226	LYS

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Mol	Chain	Res	Type
33	5S	232	GLU
33	5S	234	LYS
33	5S	235	LYS
33	5T	67	ARG
33	5T	68	ILE
33	5T	70	THR
33	5T	73	ARG
33	5T	75	LYS
33	5T	79	ASP
33	5T	83	THR
33	5T	86	ASP
33	5T	90	ASP
33	5T	95	MET
33	5T	97	GLU
33	5T	103	LEU
33	5T	106	LYS
33	5T	111	ASP
33	5T	114	ILE
33	5T	117	LEU
33	5T	118	THR
33	5T	119	LEU
33	5T	121	GLU
33	5T	125	ASP
33	5T	126	ILE
33	5T	127	ASP
33	5T	129	VAL
33	5T	135	GLU
33	5T	138	HIS
33	5T	139	LYS
33	5T	141	VAL
33	5T	142	GLU
33	5T	145	GLU
33	5T	148	LYS
33	5T	149	LYS
33	5T	152	GLN
33	5T	153	GLN
33	5T	155	ILE
33	5T	160	GLU
33	5T	161	LYS
33	5T	163	PHE
33	5T	166	GLN
33	5T	170	GLN

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Mol	Chain	Res	Type
33	5T	171	ARG
33	5T	172	LEU
33	5T	173	ASN
33	5T	175	ASP
33	5T	177	ARG
33	5T	181	GLU
33	5T	184	ASP
33	5T	213	THR
33	5T	214	SER
33	5T	215	LEU
33	5T	216	GLN
33	5T	217	GLN
33	5T	220	ASP
33	5T	223	ARG
33	5T	232	GLU
33	5T	234	LYS
33	5T	241	GLU
33	5T	245	LEU
33	5T	249	GLU
33	5T	258	ARG
33	5T	265	PHE
33	5T	266	ARG
33	5T	267	LYS
33	5T	269	LEU
33	5T	270	ARG
33	5T	271	GLU
33	5T	274	LYS
33	5T	277	SER
33	5T	279	LEU
33	5T	280	LYS
33	5T	284	LYS
33	5T	292	GLU
33	5T	295	GLU
33	5T	299	HIS
33	5T	301	GLU
33	5T	302	GLU
33	5T	304	LEU
33	5T	305	ARG
33	5T	307	LYS
33	5T	311	LEU
33	5T	314	CYS
33	5T	315	HIS

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Mol	Chain	Res	Type
33	5T	316	THR
33	5T	319	GLU
33	5T	321	ARG
33	5T	322	THR
33	5T	325	PRO
33	5T	327	VAL
33	5T	329	LEU
33	5T	331	ARG
33	5T	338	LEU
33	5T	340	ASP
33	5T	344	GLN
33	5T	345	LEU
33	5T	349	ILE
33	5T	352	LEU
33	5T	355	LYS
33	5T	356	LEU
33	5T	358	GLN
33	5T	360	GLN
33	5T	361	ASP
33	5T	363	LEU
33	5T	364	ASP
33	5T	372	ARG
33	5T	379	CYS
33	5T	383	SER
33	5T	387	ASP
33	5T	389	LYS
33	5T	391	MET
33	5T	392	ASP
33	5T	393	THR
33	5T	395	ARG
33	5T	396	LYS
33	5V	77	MET
33	5V	130	LYS
33	5V	265	PHE
33	5V	267	LYS
33	5V	268	ARG
33	5V	269	LEU
33	5V	272	MET
33	5V	280	LYS
33	5V	282	GLN
33	5V	284	LYS
33	5V	288	GLU

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Mol	Chain	Res	Type
33	5V	289	GLU
33	5V	290	ILE
33	5V	295	GLU
33	5W	45	LEU
33	5W	46	ARG
33	5W	53	THR
33	5W	58	HIS
33	5W	61	ARG
33	5W	266	ARG
33	5X	266	ARG
33	5X	368	LYS
33	5Y	57	GLU
33	5Y	58	HIS
33	5Y	59	ASP
33	5Y	69	ASP
33	5Y	73	ARG
33	5Y	207	ARG
34	6A	93	ARG
34	6A	95	THR
34	6A	97	ASP
34	6A	98	ASP
34	6A	100	TYR
34	6A	101	ARG
34	6A	102	SER
34	6A	104	LEU
34	6A	105	THR
34	6A	109	GLU
34	6A	111	ASN
34	6A	119	ARG
34	6A	120	LEU
34	6A	121	ARG
34	6A	123	ASP
34	6A	125	SER
34	6A	127	LEU
34	6A	130	ASP
34	6A	131	LYS
34	6A	134	GLN
34	6A	135	THR
34	6A	136	ARG
34	6A	137	LYS
34	6A	141	ASP
34	6A	144	GLN

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Mol	Chain	Res	Type
34	6A	146	LEU
34	6A	148	GLU
34	6A	155	PHE
34	6A	156	TRP
34	6A	159	GLU
34	6A	163	GLU
34	6A	164	LEU
34	6A	165	ASP
34	6A	170	GLU
34	6A	173	GLU
34	6A	175	THR
34	6A	176	ASP
34	6A	178	LYS
34	6A	179	LYS
34	6A	185	LEU
34	6A	186	MET
34	6A	189	GLU
34	6A	192	LEU
34	6A	196	ARG
34	6A	200	PHE
34	6A	203	GLU
34	6A	204	LYS
34	6A	210	LEU
34	6A	211	VAL
34	6A	214	GLU
34	6A	216	GLU
34	6A	217	LYS
34	6A	218	GLU
34	6A	228	CYS
34	6A	231	GLU
34	6A	232	ARG
34	6A	234	LYS
34	6A	235	LEU
34	6A	237	LEU
34	6A	238	ASP
34	6A	251	GLN
34	6A	254	LEU
34	6A	255	GLU
34	6A	259	SER
34	6A	260	ASP
34	6A	261	LYS
34	6A	262	GLN

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Mol	Chain	Res	Type
34	6A	266	ARG
34	6A	268	ASP
34	6A	270	LYS
34	6A	274	LEU
34	6A	275	ARG
34	6A	293	THR
34	6A	296	VAL
34	6A	297	PRO
34	6A	298	GLU
34	6A	302	LYS
34	6A	304	THR
34	6A	306	ASP
34	6A	310	ARG
34	6A	313	SER
34	6A	314	GLU
34	6A	321	LEU
34	6A	323	ASP
34	6A	328	VAL
34	6A	339	GLN
34	6A	342	LYS
34	6A	343	VAL
34	6A	350	ARG
34	6A	468	ILE
34	6A	469	ASP
34	6A	470	GLN
34	6A	471	ASP
34	6A	472	LYS
34	6A	475	SER
34	6A	476	MET
34	6A	478	ARG
34	6A	484	LEU
34	6B	356	ASP
34	6B	358	LYS
34	6B	360	LYS
34	6B	361	ILE
34	6B	362	GLN
34	6B	371	GLU
34	6B	376	GLU
34	6B	379	ILE
34	6B	381	SER
34	6B	383	LYS
34	6B	394	LYS

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Mol	Chain	Res	Type
34	6B	398	THR
34	6B	403	ARG
34	6B	405	ARG
34	6B	406	ARG
34	6B	409	ILE
34	6B	411	LEU
34	6B	412	CYS
34	6B	417	GLN
34	6B	419	ARG
34	6B	420	LEU
34	6B	431	ILE
34	6B	432	GLN
34	6B	434	LEU
34	6B	438	LEU
34	6B	439	ARG
34	6B	444	THR
34	6B	446	GLN
34	6B	455	LEU
34	6B	456	GLU
34	6C	95	THR
34	6C	100	TYR
34	6C	101	ARG
34	6C	104	LEU
34	6C	105	THR
34	6C	108	GLN
34	6C	116	ASN
34	6C	118	GLU
34	6C	119	ARG
34	6C	120	LEU
34	6C	129	GLN
34	6C	130	ASP
34	6C	131	LYS
34	6C	133	GLN
34	6C	134	GLN
34	6C	136	ARG
34	6C	138	THR
34	6C	139	GLN
34	6C	142	SER
34	6C	146	LEU
34	6C	149	ARG
34	6C	159	GLU
34	6C	161	ILE

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Mol	Chain	Res	Type
34	6C	164	LEU
34	6C	165	ASP
34	6C	168	ILE
34	6C	175	THR
34	6C	176	ASP
34	6C	177	ILE
34	6C	178	LYS
34	6C	179	LYS
34	6C	180	ARG
34	6C	185	LEU
34	6C	187	GLU
34	6C	189	GLU
34	6C	193	GLN
34	6C	196	ARG
34	6C	206	MET
34	6C	208	ILE
34	6C	210	LEU
34	6C	211	VAL
34	6C	212	HIS
34	6C	214	GLU
34	6C	216	GLU
34	6C	217	LYS
34	6C	220	LEU
34	6C	221	THR
34	6C	227	LEU
34	6C	228	CYS
34	6C	235	LEU
34	6C	239	LYS
34	6C	247	ASN
34	6C	248	ARG
34	6C	253	GLU
34	6C	254	LEU
34	6C	255	GLU
34	6C	256	LYS
34	6C	258	LEU
34	6C	261	LYS
34	6C	262	GLN
34	6C	263	SER
34	6C	266	ARG
34	6C	267	ILE
34	6C	270	LYS
34	6C	274	LEU

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Mol	Chain	Res	Type
34	6C	282	SER
34	6C	283	TYR
34	6C	288	GLU
34	6C	289	ARG
34	6C	296	VAL
34	6C	299	SER
34	6C	304	THR
34	6C	305	ASP
34	6C	308	ILE
34	6C	310	ARG
34	6C	312	GLN
34	6C	313	SER
34	6C	315	ARG
34	6C	318	SER
34	6C	320	LYS
34	6C	323	ASP
34	6C	325	ILE
34	6C	328	VAL
34	6C	329	LEU
34	6C	342	LYS
34	6C	345	LEU
34	6C	350	ARG
34	6C	358	LYS
34	6C	360	LYS
34	6C	367	LYS
34	6C	369	LEU
34	6C	372	ILE
34	6C	376	GLU
34	6C	378	THR
34	6C	386	ILE
34	6C	388	GLU
34	6C	389	LYS
34	6C	393	LEU
34	6C	394	LYS
34	6C	399	ARG
34	6C	412	CYS
34	6C	413	ARG
34	6C	414	ASP
34	6C	417	GLN
34	6C	423	GLU
34	6C	426	GLU
34	6C	429	ASP

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Mol	Chain	Res	Type
34	6C	434	LEU
34	6C	437	ARG
34	6C	439	ARG
34	6C	442	GLU
34	6C	444	THR
34	6C	451	THR
34	6C	452	LYS
34	6C	455	LEU
34	6C	456	GLU
34	6C	459	LEU
34	6C	462	LYS
34	6C	466	LEU
34	6C	468	ILE
34	6C	470	GLN
34	6C	471	ASP
34	6C	472	LYS
34	6C	474	MET
34	6C	475	SER
34	6C	476	MET
34	6C	479	SER
34	6C	483	THR
34	6C	484	LEU
34	6C	485	ARG
34	6D	348	THR
34	6D	350	ARG
34	6D	354	THR
34	6D	356	ASP
34	6D	360	LYS
34	6D	365	LEU
34	6D	367	LYS
34	6D	370	GLN
34	6D	373	PHE
34	6D	376	GLU
34	6D	383	LYS
34	6D	384	LYS
34	6D	389	LYS
34	6D	393	LEU
34	6D	394	LYS
34	6D	399	ARG
34	6D	401	ASP
34	6D	402	GLU
34	6D	403	ARG

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Mol	Chain	Res	Type
34	6D	405	ARG
34	6D	408	ASN
34	6D	410	GLU
34	6D	411	LEU
34	6D	413	ARG
34	6D	415	MET
34	6D	417	GLN
34	6D	418	LEU
34	6D	419	ARG
34	6D	423	GLU
34	6D	428	ASP
34	6D	429	ASP
34	6D	432	GLN
34	6D	435	GLN
34	6D	442	GLU
34	6D	446	GLN
34	6D	452	LYS
34	6D	454	THR
34	6D	456	GLU
34	6D	459	LEU
34	6D	462	LYS
34	6D	465	SER
34	6E	390	SER
34	6E	393	LEU
34	6E	398	THR
34	6E	401	ASP
34	6E	405	ARG
34	6E	406	ARG
34	6E	411	LEU
34	6E	415	MET
34	6E	417	GLN
34	6E	418	LEU
34	6E	419	ARG
34	6E	421	VAL
34	6F	126	ARG
34	6F	345	LEU
34	6F	347	PHE
34	6F	349	ASN
34	6F	350	ARG
34	6F	353	GLU
34	6F	356	ASP
34	6F	358	LYS

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Mol	Chain	Res	Type
34	6F	360	LYS
34	6F	365	LEU
34	6F	370	GLN
34	6F	371	GLU
34	6G	71	ARG
34	6G	464	ASN
34	6H	461	VAL
34	6H	462	LYS
34	6H	472	LYS
34	6K	205	ARG
34	6L	54	THR
34	6L	57	LYS
34	6L	61	ASN
34	6L	65	LEU
34	6L	66	ASP
34	6L	71	ARG
34	6L	452	LYS
34	6L	458	ASP
34	6L	464	ASN
34	6L	465	SER
34	6L	468	ILE
34	6L	470	GLN
34	6L	472	LYS
34	6L	473	CYS
34	6L	474	MET
34	6L	476	MET
35	6Q	204	ASN
35	6R	47	ARG
35	6R	77	GLN
35	6R	91	LEU
35	6R	97	GLN
35	6R	105	GLU
35	6R	106	ARG
35	6R	107	LEU
35	6R	206	GLU
35	6R	213	MET
35	6R	216	SER
35	6R	228	CYS
35	6R	229	CYS
35	6R	230	ARG
35	6R	237	ASP
35	6R	240	PHE

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Mol	Chain	Res	Type
35	6R	243	HIS
35	6R	246	LYS
35	6R	250	SER
35	6R	253	THR
35	6R	259	LYS
35	6R	262	GLN
35	6R	263	GLU
35	6R	264	HIS
35	6R	266	TYR
35	6R	267	ARG
35	6R	269	GLU
35	6R	270	ARG
35	6R	271	GLU
35	6R	272	ARG
35	6S	128	THR
35	6S	132	LEU
35	6S	135	LYS
35	6S	136	GLN
35	6S	137	ARG
35	6S	139	GLU
35	6S	142	LEU
35	6S	145	THR
35	6S	148	PRO
35	6S	151	ILE
35	6S	154	ASP
35	6S	159	ARG
35	6S	163	GLN
35	6S	169	ARG
35	6S	176	LEU
35	6S	181	GLU
35	6S	189	LEU
35	6S	191	LYS
35	6S	204	ASN
35	6S	369	CYS
35	6S	370	ARG
35	6S	376	ARG
35	6S	384	LEU
35	6S	386	LEU
35	6T	409	ARG
35	6U	204	ASN
35	6V	50	LYS
35	6V	51	TYR

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Mol	Chain	Res	Type
35	6V	53	LEU
35	6V	54	ASP
35	6V	59	ASN
35	6V	63	ARG
35	6V	138	LEU
35	6V	140	ARG
35	6V	143	ASP
35	6V	148	PRO
35	6V	157	GLN
35	6V	159	ARG
35	6V	160	GLU
35	6V	161	ARG
35	6V	163	GLN
35	6V	166	ASP
35	6V	169	ARG
35	6V	171	CYS
35	6V	178	LYS
35	6V	182	LEU
35	6V	188	GLU
35	6V	193	THR
35	6V	272	ARG
35	6V	277	ASN
35	6V	306	ARG
35	6V	409	ARG
35	6W	47	ARG
35	6W	48	THR
35	6W	50	LYS
35	6W	53	LEU
35	6W	54	ASP
35	6W	59	ASN
35	6W	240	PHE
35	6W	244	SER
35	6W	246	LYS
35	6W	248	GLU
35	6W	253	THR
36	6Y	14	PRO
36	6Z	82	LYS
37	7C	186	ARG
37	7F	54	ARG
37	7F	69	ARG
37	7F	72	VAL
37	7F	73	ASN

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Mol	Chain	Res	Type
37	7F	88	SER
37	7F	93	TYR
38	7I	220	SER
41	AB	324	LYS
41	AB	370	ASN
42	AC	2	ARG
42	AC	128	GLN
42	AC	326	LYS
41	AD	306	ARG
42	AE	308	ARG
41	AF	306	ARG
42	AG	33	ASP
42	AG	39	ASP
42	AG	42	ILE
42	AG	55	GLU
42	AG	56	THR
42	AG	60	LYS
42	AG	62	VAL
42	AG	326	LYS
41	AH	1	MET
41	AH	2	ARG
41	AH	7	LEU
41	AH	8	GLN
41	AH	12	CYS
41	AH	22	GLU
41	AH	24	ILE
41	AH	26	ASP
41	AH	39	ASP
41	AH	40	SER
41	AH	41	ASP
41	AH	42	LEU
41	AH	46	ARG
41	AH	48	ASN
41	AH	60	VAL
41	AH	64	VAL
41	AH	66	VAL
41	AH	72	THR
41	AH	73	MET
41	AH	88	ASP
41	AH	94	GLN
41	AH	108	GLU
41	AH	111	GLU

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Mol	Chain	Res	Type
41	AH	112	LEU
41	AH	114	ASP
41	AH	117	LEU
41	AH	122	LYS
41	AH	125	GLU
41	AH	127	CYS
41	AH	128	ASP
41	AH	129	CYS
41	AH	130	LEU
41	AH	133	PHE
41	AH	135	LEU
41	AH	138	SER
41	AH	145	SER
41	AH	153	SER
41	AH	156	ARG
41	AH	157	GLU
41	AH	158	GLU
41	AH	161	ASP
41	AH	162	ARG
41	AH	164	MET
41	AH	166	THR
41	AH	174	LYS
41	AH	180	VAL
41	AH	188	SER
41	AH	193	VAL
41	AH	202	ILE
41	AH	209	ASP
41	AH	211	CYS
41	AH	213	ARG
41	AH	216	LYS
41	AH	218	THR
41	AH	222	TYR
41	AH	224	ASP
41	AH	228	LEU
41	AH	232	THR
41	AH	245	GLN
41	AH	252	LYS
41	AH	262	ARG
41	AH	263	LEU
41	AH	264	HIS
41	AH	274	THR
41	AH	275	SER

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Mol	Chain	Res	Type
41	AH	276	ARG
41	AH	278	SER
41	AH	279	GLN
41	AH	280	GLN
41	AH	282	ARG
41	AH	288	GLU
41	AH	292	GLN
41	AH	293	MET
41	AH	295	ASP
41	AH	297	LYS
41	AH	298	ASN
41	AH	303	CYS
41	AH	306	ARG
41	AH	313	VAL
41	AH	316	VAL
41	AH	318	ARG
41	AH	320	ARG
41	AH	321	MET
41	AH	324	LYS
41	AH	328	GLU
41	AH	338	SER
41	AH	344	TRP
41	AH	347	ASN
41	AH	348	ASN
41	AH	351	THR
41	AH	354	CYS
41	AH	361	LEU
41	AH	362	LYS
41	AH	364	SER
41	AH	368	ILE
41	AH	374	ILE
41	AH	379	LYS
41	AH	382	SER
41	AH	405	GLU
41	AH	406	MET
41	AH	416	ASN
41	AH	420	SER
41	AH	423	GLN
41	AH	431	GLU
41	AH	435	GLU
42	AI	1	MET
42	AI	2	ARG

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Mol	Chain	Res	Type
42	AI	3	GLU
42	AI	6	SER
42	AI	7	VAL
42	AI	9	VAL
42	AI	11	GLN
42	AI	22	GLU
42	AI	26	LEU
42	AI	31	GLN
42	AI	33	ASP
42	AI	36	MET
42	AI	38	SER
42	AI	40	LYS
42	AI	42	ILE
42	AI	55	GLU
42	AI	66	VAL
42	AI	71	GLU
42	AI	75	ILE
42	AI	80	THR
42	AI	82	THR
42	AI	92	LEU
42	AI	93	ILE
42	AI	98	ASP
42	AI	110	ILE
42	AI	112	LYS
42	AI	113	GLU
42	AI	114	LEU
42	AI	117	LEU
42	AI	119	LEU
42	AI	122	ILE
42	AI	123	ARG
42	AI	124	LYS
42	AI	130	THR
42	AI	132	LEU
42	AI	135	PHE
42	AI	136	LEU
42	AI	137	ILE
42	AI	153	LEU
42	AI	157	LEU
42	AI	163	LYS
42	AI	164	LYS
42	AI	167	LEU
42	AI	170	SER

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Mol	Chain	Res	Type
42	AI	178	SER
42	AI	183	GLU
42	AI	187	SER
42	AI	193	THR
42	AI	196	GLU
42	AI	199	ASP
42	AI	200	CYS
42	AI	203	MET
42	AI	205	ASP
42	AI	209	ILE
42	AI	217	LEU
42	AI	219	ILE
42	AI	224	TYR
42	AI	227	LEU
42	AI	241	SER
42	AI	242	LEU
42	AI	250	VAL
42	AI	253	THR
42	AI	255	PHE
42	AI	258	ASN
42	AI	259	LEU
42	AI	266	HIS
42	AI	275	VAL
42	AI	276	ILE
42	AI	280	LYS
42	AI	291	ILE
42	AI	293	ASN
42	AI	295	CYS
42	AI	300	ASN
42	AI	303	VAL
42	AI	304	LYS
42	AI	308	ARG
42	AI	313	MET
42	AI	320	ARG
42	AI	324	VAL
42	AI	326	LYS
42	AI	334	THR
42	AI	335	ILE
42	AI	338	LYS
42	AI	340	THR
42	AI	346	TRP
42	AI	347	CYS

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Mol	Chain	Res	Type
42	AI	362	VAL
42	AI	367	ASP
42	AI	370	LYS
42	AI	371	VAL
42	AI	373	ARG
42	AI	396	ASP
42	AI	397	LEU
42	AI	398	MET
42	AI	401	LYS
42	AI	402	ARG
42	AI	405	VAL
42	AI	411	GLU
42	AI	413	MET
42	AI	419	SER
42	AI	423	GLU
42	AI	430	LYS
42	AI	432	TYR
42	AI	433	GLU
42	AI	438	ASP
42	AK	1	MET
42	AK	2	ARG
42	AK	3	GLU
42	AK	5	ILE
42	AK	7	VAL
42	AK	9	VAL
42	AK	16	ILE
42	AK	20	CYS
42	AK	22	GLU
42	AK	33	ASP
42	AK	40	LYS
42	AK	41	THR
42	AK	42	ILE
42	AK	46	ASP
42	AK	47	ASP
42	AK	54	SER
42	AK	62	VAL
42	AK	64	ARG
42	AK	66	VAL
42	AK	71	GLU
42	AK	74	VAL
42	AK	75	ILE
42	AK	76	ASP

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Mol	Chain	Res	Type
42	AK	77	GLU
42	AK	78	VAL
42	AK	80	THR
42	AK	90	GLU
42	AK	93	ILE
42	AK	94	THR
42	AK	96	LYS
42	AK	97	GLU
42	AK	98	ASP
42	AK	101	ASN
42	AK	120	ASP
42	AK	123	ARG
42	AK	130	THR
42	AK	135	PHE
42	AK	137	ILE
42	AK	141	PHE
42	AK	145	THR
42	AK	152	LEU
42	AK	155	GLU
42	AK	160	ASP
42	AK	163	LYS
42	AK	164	LYS
42	AK	165	SER
42	AK	170	SER
42	AK	176	GLN
42	AK	178	SER
42	AK	182	VAL
42	AK	187	SER
42	AK	188	ILE
42	AK	193	THR
42	AK	196	GLU
42	AK	199	ASP
42	AK	200	CYS
42	AK	204	VAL
42	AK	214	ARG
42	AK	218	ASP
42	AK	220	GLU
42	AK	221	ARG
42	AK	238	ILE
42	AK	239	THR
42	AK	241	SER
42	AK	242	LEU

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Mol	Chain	Res	Type
42	AK	248	LEU
42	AK	259	LEU
42	AK	262	TYR
42	AK	264	ARG
42	AK	265	ILE
42	AK	271	THR
42	AK	276	ILE
42	AK	280	LYS
42	AK	284	GLU
42	AK	285	GLN
42	AK	295	CYS
42	AK	298	PRO
42	AK	302	MET
42	AK	303	VAL
42	AK	305	CYS
42	AK	315	CYS
42	AK	320	ARG
42	AK	322	ASP
42	AK	323	VAL
42	AK	327	ASP
42	AK	335	ILE
42	AK	336	LYS
42	AK	337	THR
42	AK	338	LYS
42	AK	339	ARG
42	AK	340	THR
42	AK	341	ILE
42	AK	343	PHE
42	AK	345	ASP
42	AK	352	LYS
42	AK	361	THR
42	AK	362	VAL
42	AK	363	VAL
42	AK	367	ASP
42	AK	368	LEU
42	AK	373	ARG
42	AK	376	CYS
42	AK	384	ILE
42	AK	414	GLU
42	AK	419	SER
42	AK	433	GLU
42	AK	437	MET

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Mol	Chain	Res	Type
42	AK	440	VAL
41	AL	5	VAL
41	AL	7	LEU
41	AL	8	GLN
41	AL	19	LYS
41	AL	24	ILE
41	AL	26	ASP
41	AL	33	THR
41	AL	39	ASP
41	AL	40	SER
41	AL	45	GLU
41	AL	46	ARG
41	AL	47	ILE
41	AL	49	VAL
41	AL	58	LYS
41	AL	60	VAL
41	AL	65	LEU
41	AL	66	VAL
41	AL	74	ASP
41	AL	84	ILE
41	AL	88	ASP
41	AL	91	VAL
41	AL	103	LYS
41	AL	107	THR
41	AL	112	LEU
41	AL	114	ASP
41	AL	117	LEU
41	AL	118	ASP
41	AL	121	ARG
41	AL	122	LYS
41	AL	127	CYS
41	AL	128	ASP
41	AL	129	CYS
41	AL	133	PHE
41	AL	134	GLN
41	AL	135	LEU
41	AL	137	HIS
41	AL	147	MET
41	AL	151	LEU
41	AL	152	ILE
41	AL	156	ARG
41	AL	161	ASP

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Mol	Chain	Res	Type
41	AL	162	ARG
41	AL	166	THR
41	AL	172	SER
41	AL	174	LYS
41	AL	180	VAL
41	AL	181	GLU
41	AL	191	GLN
41	AL	192	LEU
41	AL	194	GLU
41	AL	197	ASP
41	AL	199	THR
41	AL	202	ILE
41	AL	205	GLU
41	AL	216	LYS
41	AL	217	LEU
41	AL	221	THR
41	AL	222	TYR
41	AL	224	ASP
41	AL	232	THR
41	AL	233	MET
41	AL	238	THR
41	AL	240	LEU
41	AL	245	GLN
41	AL	247	ASN
41	AL	249	ASP
41	AL	255	VAL
41	AL	262	ARG
41	AL	263	LEU
41	AL	274	THR
41	AL	275	SER
41	AL	278	SER
41	AL	282	ARG
41	AL	288	GLU
41	AL	291	GLN
41	AL	292	GLN
41	AL	295	ASP
41	AL	303	CYS
41	AL	310	TYR
41	AL	311	LEU
41	AL	312	THR
41	AL	320	ARG
41	AL	322	SER

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Mol	Chain	Res	Type
41	AL	324	LYS
41	AL	328	GLU
41	AL	331	LEU
41	AL	344	TRP
41	AL	348	ASN
41	AL	350	LYS
41	AL	351	THR
41	AL	354	CYS
41	AL	356	ILE
41	AL	359	ARG
41	AL	362	LYS
41	AL	363	MET
41	AL	364	SER
41	AL	374	ILE
41	AL	376	GLU
41	AL	379	LYS
41	AL	380	ARG
41	AL	383	GLU
41	AL	395	LEU
41	AL	404	ASP
41	AL	406	MET
41	AL	413	SER
41	AL	416	ASN
42	BC	2	ARG
41	BD	1	MET
41	BD	2	ARG
41	BD	3	GLU
41	BD	7	LEU
41	BD	8	GLN
41	BD	12	CYS
41	BD	19	LYS
41	BD	26	ASP
41	BD	31	ASP
41	BD	40	SER
41	BD	42	LEU
41	BD	45	GLU
41	BD	47	ILE
41	BD	50	TYR
41	BD	58	LYS
41	BD	60	VAL
41	BD	64	VAL
41	BD	68	LEU

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Mol	Chain	Res	Type
41	BD	72	THR
41	BD	73	MET
41	BD	74	ASP
41	BD	76	VAL
41	BD	77	ARG
41	BD	84	ILE
41	BD	86	ARG
41	BD	88	ASP
41	BD	91	VAL
41	BD	94	GLN
41	BD	99	ASN
41	BD	103	LYS
41	BD	108	GLU
41	BD	112	LEU
41	BD	114	ASP
41	BD	117	LEU
41	BD	119	VAL
41	BD	121	ARG
41	BD	122	LYS
41	BD	125	GLU
41	BD	128	ASP
41	BD	129	CYS
41	BD	133	PHE
41	BD	143	THR
41	BD	145	SER
41	BD	147	MET
41	BD	154	LYS
41	BD	156	ARG
41	BD	162	ARG
41	BD	163	ILE
41	BD	164	MET
41	BD	170	VAL
41	BD	172	SER
41	BD	174	LYS
41	BD	175	VAL
41	BD	178	THR
41	BD	180	VAL
41	BD	181	GLU
41	BD	188	SER
41	BD	189	VAL
41	BD	192	LEU
41	BD	197	ASP

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Mol	Chain	Res	Type
41	BD	202	ILE
41	BD	204	ASN
41	BD	213	ARG
41	BD	214	THR
41	BD	216	LYS
41	BD	222	TYR
41	BD	224	ASP
41	BD	228	LEU
41	BD	232	THR
41	BD	246	LEU
41	BD	247	ASN
41	BD	255	VAL
41	BD	258	VAL
41	BD	262	ARG
41	BD	264	HIS
41	BD	274	THR
41	BD	280	GLN
41	BD	282	ARG
41	BD	284	LEU
41	BD	285	THR
41	BD	289	LEU
41	BD	291	GLN
41	BD	293	MET
41	BD	299	MET
41	BD	303	CYS
41	BD	309	ARG
41	BD	318	ARG
41	BD	320	ARG
41	BD	321	MET
41	BD	322	SER
41	BD	327	ASP
41	BD	331	LEU
41	BD	336	LYS
41	BD	337	ASN
41	BD	338	SER
41	BD	343	GLU
41	BD	348	ASN
41	BD	350	LYS
41	BD	351	THR
41	BD	354	CYS
41	BD	361	LEU
41	BD	363	MET

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Mol	Chain	Res	Type
41	BD	364	SER
41	BD	366	THR
41	BD	367	PHE
41	BD	368	ILE
41	BD	374	ILE
41	BD	379	LYS
41	BD	382	SER
41	BD	383	GLU
41	BD	392	LYS
41	BD	395	LEU
41	BD	396	HIS
41	BD	404	ASP
41	BD	405	GLU
41	BD	406	MET
41	BD	407	GLU
41	BD	412	GLU
41	BD	415	MET
41	BD	417	ASP
41	BD	419	VAL
41	BD	427	ASP
42	BE	2	ARG
42	BE	84	ARG
42	BE	88	HIS
42	BE	308	ARG
41	BF	306	ARG
42	BG	216	ASN
42	BG	276	ILE
42	BG	279	GLU
42	BG	280	LYS
42	BG	285	GLN
42	BG	286	LEU
42	BG	358	GLN
42	BG	362	VAL
42	BG	363	VAL
42	BG	370	LYS
42	BG	371	VAL
42	BG	380	ASN
41	BH	2	ARG
41	BH	170	VAL
41	BH	174	LYS
41	BH	179	VAL
42	BI	1	MET

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Mol	Chain	Res	Type
42	BI	2	ARG
42	BI	5	ILE
42	BI	6	SER
42	BI	7	VAL
42	BI	33	ASP
42	BI	46	ASP
42	BI	47	ASP
42	BI	52	PHE
42	BI	53	PHE
42	BI	54	SER
42	BI	56	THR
42	BI	60	LYS
42	BI	64	ARG
42	BI	66	VAL
42	BI	68	VAL
42	BI	75	ILE
42	BI	76	ASP
42	BI	79	ARG
42	BI	84	ARG
42	BI	93	ILE
42	BI	94	THR
42	BI	96	LYS
42	BI	101	ASN
42	BI	102	ASN
42	BI	109	THR
42	BI	110	ILE
42	BI	114	LEU
42	BI	117	LEU
42	BI	119	LEU
42	BI	120	ASP
42	BI	121	ARG
42	BI	124	LYS
42	BI	128	GLN
42	BI	129	CYS
42	BI	147	SER
42	BI	153	LEU
42	BI	156	ARG
42	BI	157	LEU
42	BI	158	SER
42	BI	164	LYS
42	BI	170	SER
42	BI	176	GLN

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Mol	Chain	Res	Type
42	BI	178	SER
42	BI	188	ILE
42	BI	198	SER
42	BI	199	ASP
42	BI	204	VAL
42	BI	205	ASP
42	BI	215	ARG
42	BI	220	GLU
42	BI	224	TYR
42	BI	230	LEU
42	BI	234	ILE
42	BI	237	SER
42	BI	238	ILE
42	BI	241	SER
42	BI	242	LEU
42	BI	243	ARG
42	BI	244	PHE
42	BI	245	ASP
42	BI	252	LEU
42	BI	255	PHE
42	BI	259	LEU
42	BI	275	VAL
42	BI	279	GLU
42	BI	280	LYS
42	BI	285	GLN
42	BI	286	LEU
42	BI	290	GLU
42	BI	291	ILE
42	BI	302	MET
42	BI	305	CYS
42	BI	313	MET
42	BI	320	ARG
42	BI	323	VAL
42	BI	324	VAL
42	BI	326	LYS
42	BI	332	ILE
42	BI	336	LYS
42	BI	339	ARG
42	BI	340	THR
42	BI	349	THR
42	BI	351	PHE
42	BI	352	LYS

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Mol	Chain	Res	Type
42	BI	362	VAL
42	BI	363	VAL
42	BI	370	LYS
42	BI	371	VAL
42	BI	373	ARG
42	BI	377	MET
42	BI	386	GLU
42	BI	390	ARG
42	BI	391	LEU
42	BI	398	MET
42	BI	401	LYS
42	BI	411	GLU
42	BI	413	MET
42	BI	414	GLU
42	BI	415	GLU
42	BI	418	PHE
42	BI	425	MET
42	BI	432	TYR
42	BI	437	MET
41	BJ	251	ARG
41	BJ	292	GLN
41	BL	131	GLN
41	BL	174	LYS
41	BL	195	ASN
41	BL	306	ARG
42	CC	3	GLU
42	CC	9	VAL
42	CC	11	GLN
42	CC	16	ILE
42	CC	24	TYR
42	CC	26	LEU
42	CC	30	ILE
42	CC	31	GLN
42	CC	36	MET
42	CC	40	LYS
42	CC	41	THR
42	CC	42	ILE
42	CC	46	ASP
42	CC	49	PHE
42	CC	60	LYS
42	CC	68	VAL
42	CC	71	GLU

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Mol	Chain	Res	Type
42	CC	74	VAL
42	CC	75	ILE
42	CC	77	GLU
42	CC	79	ARG
42	CC	84	ARG
42	CC	85	GLN
42	CC	86	LEU
42	CC	90	GLU
42	CC	91	GLN
42	CC	93	ILE
42	CC	94	THR
42	CC	96	LYS
42	CC	97	GLU
42	CC	105	ARG
42	CC	109	THR
42	CC	110	ILE
42	CC	112	LYS
42	CC	113	GLU
42	CC	114	LEU
42	CC	115	ILE
42	CC	119	LEU
42	CC	120	ASP
42	CC	121	ARG
42	CC	123	ARG
42	CC	128	GLN
42	CC	132	LEU
42	CC	140	SER
42	CC	141	PHE
42	CC	147	SER
42	CC	149	PHE
42	CC	152	LEU
42	CC	153	LEU
42	CC	154	MET
42	CC	155	GLU
42	CC	158	SER
42	CC	159	VAL
42	CC	160	ASP
42	CC	163	LYS
42	CC	164	LYS
42	CC	166	LYS
42	CC	167	LEU
42	CC	176	GLN

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Mol	Chain	Res	Type
42	CC	177	VAL
42	CC	178	SER
42	CC	183	GLU
42	CC	191	THR
42	CC	192	HIS
42	CC	196	GLU
42	CC	203	MET
42	CC	204	VAL
42	CC	205	ASP
42	CC	206	ASN
42	CC	209	ILE
42	CC	212	ILE
42	CC	213	CYS
42	CC	218	ASP
42	CC	227	LEU
42	CC	233	GLN
42	CC	234	ILE
42	CC	238	ILE
42	CC	243	ARG
42	CC	251	ASP
42	CC	252	LEU
42	CC	256	GLN
42	CC	258	ASN
42	CC	259	LEU
42	CC	260	VAL
42	CC	262	TYR
42	CC	264	ARG
42	CC	269	LEU
42	CC	271	THR
42	CC	275	VAL
42	CC	280	LYS
42	CC	297	GLU
42	CC	302	MET
42	CC	304	LYS
42	CC	305	CYS
42	CC	308	ARG
42	CC	311	LYS
42	CC	316	CYS
42	CC	318	LEU
42	CC	323	VAL
42	CC	326	LYS
42	CC	327	ASP

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Mol	Chain	Res	Type
42	CC	334	THR
42	CC	336	LYS
42	CC	339	ARG
42	CC	341	ILE
42	CC	346	TRP
42	CC	352	LYS
42	CC	355	ILE
42	CC	356	ASN
42	CC	363	VAL
42	CC	367	ASP
42	CC	368	LEU
42	CC	370	LYS
42	CC	373	ARG
42	CC	376	CYS
42	CC	380	ASN
42	CC	382	THR
42	CC	390	ARG
42	CC	394	LYS
42	CC	396	ASP
42	CC	401	LYS
42	CC	402	ARG
42	CC	411	GLU
42	CC	415	GLU
42	CC	425	MET
42	CC	430	LYS
42	CC	435	VAL
42	CC	437	MET
41	CD	2	ARG
41	CD	4	ILE
41	CD	6	HIS
41	CD	7	LEU
41	CD	8	GLN
41	CD	12	CYS
41	CD	15	GLN
41	CD	19	LYS
41	CD	24	ILE
41	CD	26	ASP
41	CD	31	ASP
41	CD	33	THR
41	CD	35	THR
41	CD	39	ASP
41	CD	40	SER

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Mol	Chain	Res	Type
41	CD	46	ARG
41	CD	48	ASN
41	CD	55	THR
41	CD	60	VAL
41	CD	62	ARG
41	CD	65	LEU
41	CD	66	VAL
41	CD	69	GLU
41	CD	72	THR
41	CD	77	ARG
41	CD	84	ILE
41	CD	86	ARG
41	CD	91	VAL
41	CD	95	SER
41	CD	103	LYS
41	CD	107	THR
41	CD	113	VAL
41	CD	114	ASP
41	CD	115	SER
41	CD	116	VAL
41	CD	119	VAL
41	CD	122	LYS
41	CD	125	GLU
41	CD	126	SER
41	CD	128	ASP
41	CD	129	CYS
41	CD	131	GLN
41	CD	136	THR
41	CD	137	HIS
41	CD	138	SER
41	CD	145	SER
41	CD	147	MET
41	CD	151	LEU
41	CD	152	ILE
41	CD	154	LYS
41	CD	155	ILE
41	CD	157	GLU
41	CD	162	ARG
41	CD	163	ILE
41	CD	165	ASN
41	CD	174	LYS
41	CD	176	SER

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Mol	Chain	Res	Type
41	CD	178	THR
41	CD	180	VAL
41	CD	181	GLU
41	CD	186	THR
41	CD	194	GLU
41	CD	195	ASN
41	CD	197	ASP
41	CD	198	GLU
41	CD	202	ILE
41	CD	207	LEU
41	CD	208	TYR
41	CD	211	CYS
41	CD	213	ARG
41	CD	214	THR
41	CD	216	LYS
41	CD	217	LEU
41	CD	219	THR
41	CD	224	ASP
41	CD	225	LEU
41	CD	227	HIS
41	CD	230	SER
41	CD	241	ARG
41	CD	246	LEU
41	CD	249	ASP
41	CD	257	MET
41	CD	258	VAL
41	CD	260	PHE
41	CD	267	MET
41	CD	274	THR
41	CD	276	ARG
41	CD	284	LEU
41	CD	289	LEU
41	CD	291	GLN
41	CD	293	MET
41	CD	297	LYS
41	CD	299	MET
41	CD	300	MET
41	CD	303	CYS
41	CD	306	ARG
41	CD	309	ARG
41	CD	310	TYR
41	CD	312	THR

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Mol	Chain	Res	Type
41	CD	318	ARG
41	CD	320	ARG
41	CD	322	SER
41	CD	323	MET
41	CD	324	LYS
41	CD	325	GLU
41	CD	326	VAL
41	CD	328	GLU
41	CD	329	GLN
41	CD	330	MET
41	CD	332	ASN
41	CD	333	VAL
41	CD	336	LYS
41	CD	337	ASN
41	CD	338	SER
41	CD	342	VAL
41	CD	346	PRO
41	CD	351	THR
41	CD	361	LEU
41	CD	362	LYS
41	CD	363	MET
41	CD	364	SER
41	CD	368	ILE
41	CD	371	SER
41	CD	372	THR
41	CD	374	ILE
41	CD	377	LEU
41	CD	379	LYS
41	CD	380	ARG
41	CD	381	ILE
41	CD	382	SER
41	CD	388	MET
41	CD	391	ARG
41	CD	392	LYS
41	CD	395	LEU
41	CD	396	HIS
41	CD	401	GLU
41	CD	404	ASP
41	CD	406	MET
41	CD	407	GLU
41	CD	415	MET
41	CD	423	GLN

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Mol	Chain	Res	Type
41	CF	1	MET
41	CF	2	ARG
41	CF	5	VAL
41	CF	6	HIS
41	CF	8	GLN
41	CF	12	CYS
41	CF	19	LYS
41	CF	20	PHE
41	CF	25	SER
41	CF	26	ASP
41	CF	30	ILE
41	CF	31	ASP
41	CF	35	THR
41	CF	39	ASP
41	CF	44	LEU
41	CF	46	ARG
41	CF	47	ILE
41	CF	48	ASN
41	CF	50	TYR
41	CF	51	TYR
41	CF	53	GLU
41	CF	58	LYS
41	CF	62	ARG
41	CF	64	VAL
41	CF	65	LEU
41	CF	66	VAL
41	CF	69	GLU
41	CF	72	THR
41	CF	76	VAL
41	CF	77	ARG
41	CF	84	ILE
41	CF	86	ARG
41	CF	88	ASP
41	CF	94	GLN
41	CF	95	SER
41	CF	99	ASN
41	CF	103	LYS
41	CF	111	GLU
41	CF	113	VAL
41	CF	114	ASP
41	CF	115	SER
41	CF	121	ARG

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Mol	Chain	Res	Type
41	CF	122	LYS
41	CF	128	ASP
41	CF	135	LEU
41	CF	136	THR
41	CF	138	SER
41	CF	139	LEU
41	CF	143	THR
41	CF	154	LYS
41	CF	157	GLU
41	CF	161	ASP
41	CF	162	ARG
41	CF	166	THR
41	CF	168	SER
41	CF	170	VAL
41	CF	172	SER
41	CF	174	LYS
41	CF	176	SER
41	CF	178	THR
41	CF	179	VAL
41	CF	181	GLU
41	CF	188	SER
41	CF	191	GLN
41	CF	198	GLU
41	CF	207	LEU
41	CF	209	ASP
41	CF	213	ARG
41	CF	214	THR
41	CF	222	TYR
41	CF	228	LEU
41	CF	229	VAL
41	CF	230	SER
41	CF	232	THR
41	CF	240	LEU
41	CF	241	ARG
41	CF	249	ASP
41	CF	251	ARG
41	CF	257	MET
41	CF	266	PHE
41	CF	267	MET
41	CF	273	LEU
41	CF	274	THR
41	CF	278	SER

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Mol	Chain	Res	Type
41	CF	279	GLN
41	CF	280	GLN
41	CF	282	ARG
41	CF	288	GLU
41	CF	292	GLN
41	CF	300	MET
41	CF	304	ASP
41	CF	306	ARG
41	CF	309	ARG
41	CF	312	THR
41	CF	316	VAL
41	CF	318	ARG
41	CF	320	ARG
41	CF	322	SER
41	CF	324	LYS
41	CF	325	GLU
41	CF	326	VAL
41	CF	328	GLU
41	CF	331	LEU
41	CF	334	GLN
41	CF	336	LYS
41	CF	342	VAL
41	CF	346	PRO
41	CF	347	ASN
41	CF	351	THR
41	CF	359	ARG
41	CF	362	LYS
41	CF	363	MET
41	CF	364	SER
41	CF	375	GLN
41	CF	376	GLU
41	CF	379	LYS
41	CF	380	ARG
41	CF	381	ILE
41	CF	388	MET
41	CF	389	PHE
41	CF	390	ARG
41	CF	391	ARG
41	CF	392	LYS
41	CF	394	PHE
41	CF	395	LEU
41	CF	398	TYR

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Mol	Chain	Res	Type
41	CF	403	MET
41	CF	405	GLU
41	CF	406	MET
41	CF	410	GLU
41	CF	412	GLU
41	CF	413	SER
41	CF	418	LEU
41	CF	419	VAL
41	CF	421	GLU
41	CF	423	GLN
41	CF	424	GLN
41	CF	427	ASP
42	CG	1	MET
42	CG	3	GLU
42	CG	4	CYS
42	CG	5	ILE
42	CG	9	VAL
42	CG	15	GLN
42	CG	16	ILE
42	CG	23	LEU
42	CG	26	LEU
42	CG	27	GLU
42	CG	30	ILE
42	CG	36	MET
42	CG	39	ASP
42	CG	40	LYS
42	CG	42	ILE
42	CG	46	ASP
42	CG	49	PHE
42	CG	55	GLU
42	CG	60	LYS
42	CG	67	PHE
42	CG	68	VAL
42	CG	73	THR
42	CG	79	ARG
42	CG	82	THR
42	CG	85	GLN
42	CG	92	LEU
42	CG	94	THR
42	CG	96	LYS
42	CG	97	GLU
42	CG	105	ARG

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Mol	Chain	Res	Type
42	CG	109	THR
42	CG	113	GLU
42	CG	114	LEU
42	CG	116	ASP
42	CG	117	LEU
42	CG	119	LEU
42	CG	120	ASP
42	CG	121	ARG
42	CG	125	LEU
42	CG	127	ASP
42	CG	128	GLN
42	CG	137	ILE
42	CG	140	SER
42	CG	141	PHE
42	CG	149	PHE
42	CG	151	SER
42	CG	152	LEU
42	CG	153	LEU
42	CG	158	SER
42	CG	159	VAL
42	CG	163	LYS
42	CG	167	LEU
42	CG	168	GLU
42	CG	177	VAL
42	CG	179	THR
42	CG	183	GLU
42	CG	190	THR
42	CG	195	LEU
42	CG	197	HIS
42	CG	198	SER
42	CG	200	CYS
42	CG	204	VAL
42	CG	212	ILE
42	CG	215	ARG
42	CG	216	ASN
42	CG	217	LEU
42	CG	218	ASP
42	CG	219	ILE
42	CG	225	THR
42	CG	230	LEU
42	CG	234	ILE
42	CG	251	ASP

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Mol	Chain	Res	Type
42	CG	252	LEU
42	CG	253	THR
42	CG	256	GLN
42	CG	258	ASN
42	CG	259	LEU
42	CG	271	THR
42	CG	275	VAL
42	CG	276	ILE
42	CG	280	LYS
42	CG	284	GLU
42	CG	285	GLN
42	CG	286	LEU
42	CG	295	CYS
42	CG	297	GLU
42	CG	300	ASN
42	CG	302	MET
42	CG	305	CYS
42	CG	311	LYS
42	CG	317	LEU
42	CG	318	LEU
42	CG	322	ASP
42	CG	326	LYS
42	CG	327	ASP
42	CG	334	THR
42	CG	336	LYS
42	CG	337	THR
42	CG	338	LYS
42	CG	339	ARG
42	CG	340	THR
42	CG	342	GLN
42	CG	345	ASP
42	CG	352	LYS
42	CG	362	VAL
42	CG	363	VAL
42	CG	367	ASP
42	CG	372	GLN
42	CG	373	ARG
42	CG	375	VAL
42	CG	377	MET
42	CG	378	LEU
42	CG	380	ASN
42	CG	381	THR

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Mol	Chain	Res	Type
42	CG	386	GLU
42	CG	390	ARG
42	CG	392	ASP
42	CG	397	LEU
42	CG	398	MET
42	CG	401	LYS
42	CG	402	ARG
42	CG	405	VAL
42	CG	413	MET
42	CG	422	ARG
42	CG	423	GLU
42	CG	425	MET
42	CG	429	GLU
42	CG	430	LYS
42	CG	435	VAL
42	CG	437	MET
41	CH	320	ARG
41	CJ	5	VAL
41	CJ	8	GLN
41	CJ	12	CYS
41	CJ	14	ASN
41	CJ	16	ILE
41	CJ	19	LYS
41	CJ	22	GLU
41	CJ	24	ILE
41	CJ	26	ASP
41	CJ	31	ASP
41	CJ	35	THR
41	CJ	42	LEU
41	CJ	43	GLN
41	CJ	47	ILE
41	CJ	50	TYR
41	CJ	53	GLU
41	CJ	55	THR
41	CJ	60	VAL
41	CJ	62	ARG
41	CJ	64	VAL
41	CJ	66	VAL
41	CJ	67	ASP
41	CJ	68	LEU
41	CJ	72	THR
41	CJ	73	MET

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Mol	Chain	Res	Type
41	CJ	74	ASP
41	CJ	78	SER
41	CJ	86	ARG
41	CJ	89	ASN
41	CJ	91	VAL
41	CJ	92	PHE
41	CJ	103	LYS
41	CJ	107	THR
41	CJ	108	GLU
41	CJ	111	GLU
41	CJ	116	VAL
41	CJ	117	LEU
41	CJ	119	VAL
41	CJ	121	ARG
41	CJ	122	LYS
41	CJ	134	GLN
41	CJ	135	LEU
41	CJ	137	HIS
41	CJ	147	MET
41	CJ	150	LEU
41	CJ	151	LEU
41	CJ	154	LYS
41	CJ	155	ILE
41	CJ	156	ARG
41	CJ	157	GLU
41	CJ	163	ILE
41	CJ	165	ASN
41	CJ	168	SER
41	CJ	172	SER
41	CJ	174	LYS
41	CJ	176	SER
41	CJ	180	VAL
41	CJ	188	SER
41	CJ	190	HIS
41	CJ	192	LEU
41	CJ	198	GLU
41	CJ	201	CYS
41	CJ	203	ASP
41	CJ	208	TYR
41	CJ	211	CYS
41	CJ	212	PHE
41	CJ	213	ARG

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Mol	Chain	Res	Type
41	CJ	214	THR
41	CJ	215	LEU
41	CJ	216	LYS
41	CJ	222	TYR
41	CJ	224	ASP
41	CJ	225	LEU
41	CJ	228	LEU
41	CJ	229	VAL
41	CJ	238	THR
41	CJ	240	LEU
41	CJ	242	PHE
41	CJ	249	ASP
41	CJ	252	LYS
41	CJ	256	ASN
41	CJ	262	ARG
41	CJ	267	MET
41	CJ	279	GLN
41	CJ	282	ARG
41	CJ	288	GLU
41	CJ	289	LEU
41	CJ	295	ASP
41	CJ	297	LYS
41	CJ	300	MET
41	CJ	303	CYS
41	CJ	306	ARG
41	CJ	310	TYR
41	CJ	312	THR
41	CJ	313	VAL
41	CJ	318	ARG
41	CJ	320	ARG
41	CJ	322	SER
41	CJ	323	MET
41	CJ	324	LYS
41	CJ	326	VAL
41	CJ	329	GLN
41	CJ	330	MET
41	CJ	331	LEU
41	CJ	336	LYS
41	CJ	341	PHE
41	CJ	342	VAL
41	CJ	345	ILE
41	CJ	349	VAL

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Mol	Chain	Res	Type
41	CJ	350	LYS
41	CJ	351	THR
41	CJ	356	ILE
41	CJ	362	LYS
41	CJ	364	SER
41	CJ	371	SER
41	CJ	377	LEU
41	CJ	380	ARG
41	CJ	381	ILE
41	CJ	383	GLU
41	CJ	388	MET
41	CJ	389	PHE
41	CJ	392	LYS
41	CJ	395	LEU
41	CJ	397	TRP
41	CJ	404	ASP
41	CJ	406	MET
41	CJ	413	SER
41	CJ	415	MET
41	CJ	427	ASP
41	CL	191	GLN
42	CM	2	ARG
41	DB	337	ASN
41	DB	390	ARG
42	DC	2	ARG
42	DC	226	ASN
42	DC	358	GLN
42	DG	206	ASN
42	DG	339	ARG
41	DH	7	LEU
41	DH	8	GLN
41	DH	16	ILE
41	DH	19	LYS
41	DH	26	ASP
41	DH	27	GLU
41	DH	31	ASP
41	DH	39	ASP
41	DH	42	LEU
41	DH	46	ARG
41	DH	53	GLU
41	DH	55	THR
41	DH	58	LYS

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Mol	Chain	Res	Type
41	DH	62	ARG
41	DH	73	MET
41	DH	74	ASP
41	DH	77	ARG
41	DH	78	SER
41	DH	91	VAL
41	DH	103	LYS
41	DH	111	GLU
41	DH	118	ASP
41	DH	120	VAL
41	DH	122	LYS
41	DH	125	GLU
41	DH	127	CYS
41	DH	137	HIS
41	DH	138	SER
41	DH	145	SER
41	DH	149	THR
41	DH	153	SER
41	DH	154	LYS
41	DH	156	ARG
41	DH	158	GLU
41	DH	161	ASP
41	DH	162	ARG
41	DH	164	MET
41	DH	165	ASN
41	DH	169	VAL
41	DH	174	LYS
41	DH	180	VAL
41	DH	181	GLU
41	DH	183	TYR
41	DH	184	ASN
41	DH	198	GLU
41	DH	200	TYR
41	DH	213	ARG
41	DH	222	TYR
41	DH	224	ASP
41	DH	226	ASN
41	DH	228	LEU
41	DH	229	VAL
41	DH	233	MET
41	DH	239	CYS
41	DH	241	ARG

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Mol	Chain	Res	Type
41	DH	245	GLN
41	DH	246	LEU
41	DH	250	LEU
41	DH	251	ARG
41	DH	252	LYS
41	DH	253	LEU
41	DH	257	MET
41	DH	260	PHE
41	DH	262	ARG
41	DH	263	LEU
41	DH	266	PHE
41	DH	267	MET
41	DH	270	PHE
41	DH	275	SER
41	DH	279	GLN
41	DH	282	ARG
41	DH	284	LEU
41	DH	285	THR
41	DH	291	GLN
41	DH	292	GLN
41	DH	293	MET
41	DH	297	LYS
41	DH	299	MET
41	DH	303	CYS
41	DH	304	ASP
41	DH	306	ARG
41	DH	311	LEU
41	DH	312	THR
41	DH	316	VAL
41	DH	318	ARG
41	DH	320	ARG
41	DH	324	LYS
41	DH	325	GLU
41	DH	330	MET
41	DH	333	VAL
41	DH	336	LYS
41	DH	339	SER
41	DH	348	ASN
41	DH	349	VAL
41	DH	350	LYS
41	DH	354	CYS
41	DH	359	ARG

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Mol	Chain	Res	Type
41	DH	361	LEU
41	DH	362	LYS
41	DH	363	MET
41	DH	374	ILE
41	DH	375	GLN
41	DH	377	LEU
41	DH	379	LYS
41	DH	380	ARG
41	DH	381	ILE
41	DH	382	SER
41	DH	383	GLU
41	DH	384	GLN
41	DH	388	MET
41	DH	391	ARG
41	DH	392	LYS
41	DH	395	LEU
41	DH	405	GLU
41	DH	407	GLU
41	DH	410	GLU
41	DH	413	SER
41	DH	417	ASP
41	DH	418	LEU
41	DH	425	TYR
41	DJ	1	MET
41	DJ	2	ARG
41	DJ	3	GLU
41	DJ	7	LEU
41	DJ	8	GLN
41	DJ	11	GLN
41	DJ	12	CYS
41	DJ	19	LYS
41	DJ	24	ILE
41	DJ	25	SER
41	DJ	26	ASP
41	DJ	31	ASP
41	DJ	33	THR
41	DJ	39	ASP
41	DJ	41	ASP
41	DJ	42	LEU
41	DJ	46	ARG
41	DJ	47	ILE
41	DJ	48	ASN

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Mol	Chain	Res	Type
41	DJ	55	THR
41	DJ	64	VAL
41	DJ	65	LEU
41	DJ	66	VAL
41	DJ	68	LEU
41	DJ	73	MET
41	DJ	75	SER
41	DJ	77	ARG
41	DJ	78	SER
41	DJ	85	PHE
41	DJ	86	ARG
41	DJ	90	PHE
41	DJ	91	VAL
41	DJ	94	GLN
41	DJ	103	LYS
41	DJ	108	GLU
41	DJ	112	LEU
41	DJ	113	VAL
41	DJ	117	LEU
41	DJ	118	ASP
41	DJ	122	LYS
41	DJ	123	GLU
41	DJ	127	CYS
41	DJ	130	LEU
41	DJ	131	GLN
41	DJ	135	LEU
41	DJ	137	HIS
41	DJ	139	LEU
41	DJ	147	MET
41	DJ	150	LEU
41	DJ	154	LYS
41	DJ	157	GLU
41	DJ	162	ARG
41	DJ	164	MET
41	DJ	167	PHE
41	DJ	169	VAL
41	DJ	174	LYS
41	DJ	176	SER
41	DJ	177	ASP
41	DJ	178	THR
41	DJ	180	VAL
41	DJ	182	PRO

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Mol	Chain	Res	Type
41	DJ	187	LEU
41	DJ	188	SER
41	DJ	192	LEU
41	DJ	195	ASN
41	DJ	197	ASP
41	DJ	199	THR
41	DJ	200	TYR
41	DJ	201	CYS
41	DJ	202	ILE
41	DJ	205	GLU
41	DJ	213	ARG
41	DJ	214	THR
41	DJ	218	THR
41	DJ	219	THR
41	DJ	232	THR
41	DJ	233	MET
41	DJ	238	THR
41	DJ	252	LYS
41	DJ	257	MET
41	DJ	270	PHE
41	DJ	276	ARG
41	DJ	284	LEU
41	DJ	291	GLN
41	DJ	293	MET
41	DJ	297	LYS
41	DJ	306	ARG
41	DJ	307	HIS
41	DJ	312	THR
41	DJ	313	VAL
41	DJ	321	MET
41	DJ	323	MET
41	DJ	324	LYS
41	DJ	326	VAL
41	DJ	333	VAL
41	DJ	336	LYS
41	DJ	337	ASN
41	DJ	349	VAL
41	DJ	350	LYS
41	DJ	359	ARG
41	DJ	362	LYS
41	DJ	363	MET
41	DJ	374	ILE

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Mol	Chain	Res	Type
41	DJ	375	GLN
41	DJ	376	GLU
41	DJ	377	LEU
41	DJ	379	LYS
41	DJ	380	ARG
41	DJ	382	SER
41	DJ	383	GLU
41	DJ	390	ARG
41	DJ	399	THR
41	DJ	405	GLU
41	DJ	406	MET
41	DJ	407	GLU
41	DJ	409	THR
41	DJ	410	GLU
41	DJ	413	SER
41	DJ	414	ASN
41	DJ	415	MET
41	DJ	418	LEU
41	DJ	423	GLN
41	DJ	424	GLN
41	DJ	425	TYR
42	DK	2	ARG
42	DK	6	SER
42	DK	9	VAL
42	DK	14	VAL
42	DK	16	ILE
42	DK	20	CYS
42	DK	23	LEU
42	DK	26	LEU
42	DK	28	HIS
42	DK	30	ILE
42	DK	55	GLU
42	DK	62	VAL
42	DK	64	ARG
42	DK	66	VAL
42	DK	68	VAL
42	DK	71	GLU
42	DK	80	THR
42	DK	82	THR
42	DK	84	ARG
42	DK	88	HIS
42	DK	90	GLU

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Mol	Chain	Res	Type
42	DK	92	LEU
42	DK	93	ILE
42	DK	96	LYS
42	DK	97	GLU
42	DK	98	ASP
42	DK	110	ILE
42	DK	112	LYS
42	DK	114	LEU
42	DK	115	ILE
42	DK	116	ASP
42	DK	117	LEU
42	DK	120	ASP
42	DK	123	ARG
42	DK	132	LEU
42	DK	140	SER
42	DK	157	LEU
42	DK	159	VAL
42	DK	163	LYS
42	DK	164	LYS
42	DK	171	ILE
42	DK	172	TYR
42	DK	176	GLN
42	DK	177	VAL
42	DK	178	SER
42	DK	181	VAL
42	DK	188	ILE
42	DK	193	THR
42	DK	209	ILE
42	DK	211	ASP
42	DK	213	CYS
42	DK	214	ARG
42	DK	215	ARG
42	DK	217	LEU
42	DK	220	GLU
42	DK	223	THR
42	DK	229	ARG
42	DK	230	LEU
42	DK	236	SER
42	DK	237	SER
42	DK	239	THR
42	DK	243	ARG
42	DK	249	ASN

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Mol	Chain	Res	Type
42	DK	250	VAL
42	DK	255	PHE
42	DK	256	GLN
42	DK	275	VAL
42	DK	277	SER
42	DK	280	LYS
42	DK	283	HIS
42	DK	290	GLU
42	DK	302	MET
42	DK	303	VAL
42	DK	309	HIS
42	DK	316	CYS
42	DK	318	LEU
42	DK	320	ARG
42	DK	326	LYS
42	DK	335	ILE
42	DK	339	ARG
42	DK	351	PHE
42	DK	353	VAL
42	DK	355	ILE
42	DK	361	THR
42	DK	363	VAL
42	DK	368	LEU
42	DK	371	VAL
42	DK	372	GLN
42	DK	373	ARG
42	DK	375	VAL
42	DK	384	ILE
42	DK	392	ASP
42	DK	394	LYS
42	DK	397	LEU
42	DK	402	ARG
42	DK	411	GLU
42	DK	413	MET
42	DK	419	SER
42	DK	422	ARG
42	DK	424	ASP
42	DK	425	MET
42	DK	428	LEU
42	DK	430	LYS
42	DK	433	GLU
42	DK	437	MET

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Mol	Chain	Res	Type
41	DL	64	VAL
41	DL	68	LEU
41	DL	73	MET
41	DL	74	ASP
41	DL	84	ILE
41	DL	86	ARG
41	DL	88	ASP
41	DL	90	PHE
41	DL	152	ILE
41	DL	154	LYS
41	DL	155	ILE
41	DL	156	ARG
41	DL	157	GLU
41	DL	172	SER
41	DL	174	LYS
41	DL	176	SER
41	DL	179	VAL
41	DL	181	GLU
41	DL	187	LEU
41	DL	192	LEU
41	DL	194	GLU
42	EC	402	ARG
41	ED	1	MET
41	ED	4	ILE
41	ED	6	HIS
41	ED	7	LEU
41	ED	8	GLN
41	ED	12	CYS
41	ED	14	ASN
41	ED	19	LYS
41	ED	24	ILE
41	ED	32	PRO
41	ED	33	THR
41	ED	35	THR
41	ED	39	ASP
41	ED	46	ARG
41	ED	48	ASN
41	ED	49	VAL
41	ED	53	GLU
41	ED	58	LYS
41	ED	60	VAL
41	ED	64	VAL

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Mol	Chain	Res	Type
41	ED	72	THR
41	ED	73	MET
41	ED	74	ASP
41	ED	80	PRO
41	ED	84	ILE
41	ED	86	ARG
41	ED	91	VAL
41	ED	95	SER
41	ED	107	THR
41	ED	108	GLU
41	ED	114	ASP
41	ED	122	LYS
41	ED	125	GLU
41	ED	130	LEU
41	ED	136	THR
41	ED	147	MET
41	ED	149	THR
41	ED	153	SER
41	ED	154	LYS
41	ED	163	ILE
41	ED	164	MET
41	ED	166	THR
41	ED	168	SER
41	ED	170	VAL
41	ED	174	LYS
41	ED	175	VAL
41	ED	176	SER
41	ED	177	ASP
41	ED	178	THR
41	ED	180	VAL
41	ED	184	ASN
41	ED	189	VAL
41	ED	192	LEU
41	ED	198	GLU
41	ED	201	CYS
41	ED	212	PHE
41	ED	216	LYS
41	ED	217	LEU
41	ED	221	THR
41	ED	224	ASP
41	ED	225	LEU
41	ED	228	LEU

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Mol	Chain	Res	Type
41	ED	232	THR
41	ED	233	MET
41	ED	237	THR
41	ED	250	LEU
41	ED	252	LYS
41	ED	258	VAL
41	ED	262	ARG
41	ED	263	LEU
41	ED	274	THR
41	ED	276	ARG
41	ED	280	GLN
41	ED	285	THR
41	ED	289	LEU
41	ED	292	GLN
41	ED	295	ASP
41	ED	297	LYS
41	ED	299	MET
41	ED	306	ARG
41	ED	312	THR
41	ED	320	ARG
41	ED	322	SER
41	ED	328	GLU
41	ED	337	ASN
41	ED	343	GLU
41	ED	344	TRP
41	ED	347	ASN
41	ED	350	LYS
41	ED	351	THR
41	ED	353	VAL
41	ED	356	ILE
41	ED	362	LYS
41	ED	363	MET
41	ED	374	ILE
41	ED	378	PHE
41	ED	381	ILE
41	ED	383	GLU
41	ED	391	ARG
41	ED	392	LYS
41	ED	403	MET
41	ED	404	ASP
41	ED	406	MET
41	ED	407	GLU

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Mol	Chain	Res	Type
41	ED	415	MET
41	ED	418	LEU
41	ED	420	SER
41	ED	425	TYR
42	EE	1	MET
42	EE	2	ARG
42	EE	3	GLU
42	EE	6	SER
42	EE	7	VAL
42	EE	9	VAL
42	EE	22	GLU
42	EE	26	LEU
42	EE	30	ILE
42	EE	32	PRO
42	EE	38	SER
42	EE	39	ASP
42	EE	40	LYS
42	EE	47	ASP
42	EE	55	GLU
42	EE	60	LYS
42	EE	62	VAL
42	EE	66	VAL
42	EE	68	VAL
42	EE	71	GLU
42	EE	73	THR
42	EE	75	ILE
42	EE	79	ARG
42	EE	80	THR
42	EE	82	THR
42	EE	105	ARG
42	EE	109	THR
42	EE	110	ILE
42	EE	112	LYS
42	EE	116	ASP
42	EE	120	ASP
42	EE	122	ILE
42	EE	123	ARG
42	EE	128	GLN
42	EE	129	CYS
42	EE	132	LEU
42	EE	133	GLN
42	EE	141	PHE

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Mol	Chain	Res	Type
42	EE	151	SER
42	EE	152	LEU
42	EE	153	LEU
42	EE	158	SER
42	EE	163	LYS
42	EE	165	SER
42	EE	166	LYS
42	EE	167	LEU
42	EE	171	ILE
42	EE	177	VAL
42	EE	187	SER
42	EE	193	THR
42	EE	194	THR
42	EE	197	HIS
42	EE	202	PHE
42	EE	205	ASP
42	EE	206	ASN
42	EE	211	ASP
42	EE	212	ILE
42	EE	214	ARG
42	EE	221	ARG
42	EE	223	THR
42	EE	249	ASN
42	EE	251	ASP
42	EE	253	THR
42	EE	259	LEU
42	EE	264	ARG
42	EE	265	ILE
42	EE	269	LEU
42	EE	271	THR
42	EE	272	TYR
42	EE	275	VAL
42	EE	276	ILE
42	EE	279	GLU
42	EE	280	LYS
42	EE	285	GLN
42	EE	291	ILE
42	EE	295	CYS
42	EE	302	MET
42	EE	303	VAL
42	EE	305	CYS
42	EE	308	ARG

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Mol	Chain	Res	Type
42	EE	320	ARG
42	EE	323	VAL
42	EE	324	VAL
42	EE	326	LYS
42	EE	332	ILE
42	EE	339	ARG
42	EE	349	THR
42	EE	351	PHE
42	EE	362	VAL
42	EE	363	VAL
42	EE	367	ASP
42	EE	368	LEU
42	EE	376	CYS
42	EE	378	LEU
42	EE	379	SER
42	EE	382	THR
42	EE	386	GLU
42	EE	396	ASP
42	EE	401	LYS
42	EE	405	VAL
42	EE	411	GLU
42	EE	417	GLU
42	EE	420	GLU
42	EE	422	ARG
42	EE	423	GLU
42	EE	424	ASP
42	EE	428	LEU
42	EE	430	LYS
42	EE	437	MET
42	EE	440	VAL
42	EE	441	GLU
42	EG	1	MET
42	EG	2	ARG
42	EG	4	CYS
42	EG	5	ILE
42	EG	7	VAL
42	EG	11	GLN
42	EG	26	LEU
42	EG	30	ILE
42	EG	31	GLN
42	EG	36	MET
42	EG	38	SER

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Mol	Chain	Res	Type
42	EG	39	ASP
42	EG	40	LYS
42	EG	42	ILE
42	EG	52	PHE
42	EG	60	LYS
42	EG	71	GLU
42	EG	74	VAL
42	EG	76	ASP
42	EG	84	ARG
42	EG	94	THR
42	EG	97	GLU
42	EG	102	ASN
42	EG	105	ARG
42	EG	107	HIS
42	EG	109	THR
42	EG	110	ILE
42	EG	113	GLU
42	EG	117	LEU
42	EG	122	ILE
42	EG	123	ARG
42	EG	125	LEU
42	EG	128	GLN
42	EG	136	LEU
42	EG	145	THR
42	EG	152	LEU
42	EG	153	LEU
42	EG	156	ARG
42	EG	163	LYS
42	EG	164	LYS
42	EG	165	SER
42	EG	166	LYS
42	EG	167	LEU
42	EG	168	GLU
42	EG	182	VAL
42	EG	186	ASN
42	EG	193	THR
42	EG	199	ASP
42	EG	209	ILE
42	EG	214	ARG
42	EG	215	ARG
42	EG	219	ILE
42	EG	221	ARG

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Mol	Chain	Res	Type
42	EG	223	THR
42	EG	226	ASN
42	EG	238	ILE
42	EG	242	LEU
42	EG	245	ASP
42	EG	249	ASN
42	EG	250	VAL
42	EG	251	ASP
42	EG	260	VAL
42	EG	264	ARG
42	EG	271	THR
42	EG	272	TYR
42	EG	276	ILE
42	EG	279	GLU
42	EG	280	LYS
42	EG	284	GLU
42	EG	288	VAL
42	EG	291	ILE
42	EG	293	ASN
42	EG	295	CYS
42	EG	302	MET
42	EG	304	LYS
42	EG	309	HIS
42	EG	313	MET
42	EG	318	LEU
42	EG	322	ASP
42	EG	324	VAL
42	EG	325	PRO
42	EG	326	LYS
42	EG	334	THR
42	EG	338	LYS
42	EG	339	ARG
42	EG	340	THR
42	EG	342	GLN
42	EG	347	CYS
42	EG	349	THR
42	EG	352	LYS
42	EG	358	GLN
42	EG	363	VAL
42	EG	367	ASP
42	EG	370	LYS
42	EG	375	VAL

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Mol	Chain	Res	Type
42	EG	378	LEU
42	EG	380	ASN
42	EG	382	THR
42	EG	384	ILE
42	EG	390	ARG
42	EG	391	LEU
42	EG	402	ARG
42	EG	413	MET
42	EG	422	ARG
42	EG	423	GLU
42	EG	432	TYR
42	EG	433	GLU
42	EG	434	GLU
42	EG	437	MET
41	EH	174	LYS
41	EH	291	GLN
42	EI	50	ASN
41	EJ	15	GLN
41	EJ	282	ARG
41	EJ	362	LYS
42	EK	1	MET
42	EK	2	ARG
42	EK	4	CYS
42	EK	7	VAL
42	EK	14	VAL
42	EK	22	GLU
42	EK	25	CYS
42	EK	26	LEU
42	EK	30	ILE
42	EK	35	GLN
42	EK	36	MET
42	EK	38	SER
42	EK	39	ASP
42	EK	40	LYS
42	EK	42	ILE
42	EK	46	ASP
42	EK	47	ASP
42	EK	50	ASN
42	EK	51	THR
42	EK	54	SER
42	EK	55	GLU
42	EK	62	VAL

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Mol	Chain	Res	Type
42	EK	66	VAL
42	EK	67	PHE
42	EK	68	VAL
42	EK	79	ARG
42	EK	82	THR
42	EK	86	LEU
42	EK	93	ILE
42	EK	94	THR
42	EK	103	TYR
42	EK	108	TYR
42	EK	109	THR
42	EK	110	ILE
42	EK	112	LYS
42	EK	114	LEU
42	EK	116	ASP
42	EK	119	LEU
42	EK	120	ASP
42	EK	123	ARG
42	EK	124	LYS
42	EK	125	LEU
42	EK	127	ASP
42	EK	130	THR
42	EK	133	GLN
42	EK	140	SER
42	EK	151	SER
42	EK	157	LEU
42	EK	163	LYS
42	EK	167	LEU
42	EK	168	GLU
42	EK	170	SER
42	EK	171	ILE
42	EK	172	TYR
42	EK	177	VAL
42	EK	178	SER
42	EK	182	VAL
42	EK	183	GLU
42	EK	185	TYR
42	EK	186	ASN
42	EK	187	SER
42	EK	189	LEU
42	EK	190	THR
42	EK	193	THR

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Mol	Chain	Res	Type
42	EK	195	LEU
42	EK	197	HIS
42	EK	199	ASP
42	EK	203	MET
42	EK	207	GLU
42	EK	209	ILE
42	EK	212	ILE
42	EK	214	ARG
42	EK	215	ARG
42	EK	219	ILE
42	EK	234	ILE
42	EK	236	SER
42	EK	238	ILE
42	EK	243	ARG
42	EK	250	VAL
42	EK	253	THR
42	EK	256	GLN
42	EK	257	THR
42	EK	266	HIS
42	EK	269	LEU
42	EK	271	THR
42	EK	272	TYR
42	EK	285	GLN
42	EK	286	LEU
42	EK	288	VAL
42	EK	290	GLU
42	EK	291	ILE
42	EK	295	CYS
42	EK	297	GLU
42	EK	302	MET
42	EK	303	VAL
42	EK	304	LYS
42	EK	308	ARG
42	EK	315	CYS
42	EK	316	CYS
42	EK	318	LEU
42	EK	320	ARG
42	EK	323	VAL
42	EK	324	VAL
42	EK	325	PRO
42	EK	326	LYS
42	EK	328	VAL

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Mol	Chain	Res	Type
42	EK	332	ILE
42	EK	338	LYS
42	EK	339	ARG
42	EK	341	ILE
42	EK	344	VAL
42	EK	351	PHE
42	EK	352	LYS
42	EK	353	VAL
42	EK	362	VAL
42	EK	363	VAL
42	EK	370	LYS
42	EK	373	ARG
42	EK	386	GLU
42	EK	391	LEU
42	EK	392	ASP
42	EK	396	ASP
42	EK	402	ARG
42	EK	405	VAL
42	EK	406	HIS
42	EK	411	GLU
42	EK	413	MET
42	EK	415	GLU
42	EK	417	GLU
42	EK	420	GLU
42	EK	422	ARG
42	EK	423	GLU
42	EK	430	LYS
42	EK	431	ASP
42	EK	434	GLU
42	EK	435	VAL
42	EK	437	MET
42	EK	439	SER
41	EL	276	ARG
41	EL	278	SER
41	EL	279	GLN
41	EL	280	GLN
41	EL	282	ARG
41	EL	284	LEU
41	EL	380	ARG
41	EL	382	SER
41	EL	386	THR
41	EL	388	MET

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Mol	Chain	Res	Type
41	EL	391	ARG
41	EL	395	LEU
41	EL	401	GLU
41	EL	409	THR
41	EL	415	MET
41	EL	419	VAL
41	EL	421	GLU
41	EL	422	TYR
41	EL	423	GLN
41	EL	424	GLN
41	EL	426	GLN
42	EM	1	MET
42	EM	3	GLU
42	EM	7	VAL
42	EM	9	VAL
42	EM	22	GLU
42	EM	25	CYS
42	EM	26	LEU
42	EM	31	GLN
42	EM	33	ASP
42	EM	51	THR
42	EM	52	PHE
42	EM	54	SER
42	EM	55	GLU
42	EM	62	VAL
42	EM	64	ARG
42	EM	66	VAL
42	EM	68	VAL
42	EM	70	LEU
42	EM	73	THR
42	EM	75	ILE
42	EM	79	ARG
42	EM	82	THR
42	EM	84	ARG
42	EM	96	LYS
42	EM	97	GLU
42	EM	98	ASP
42	EM	102	ASN
42	EM	109	THR
42	EM	112	LYS
42	EM	113	GLU
42	EM	114	LEU

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Mol	Chain	Res	Type
42	EM	116	ASP
42	EM	117	LEU
42	EM	120	ASP
42	EM	121	ARG
42	EM	122	ILE
42	EM	128	GLN
42	EM	132	LEU
42	EM	135	PHE
42	EM	137	ILE
42	EM	138	PHE
42	EM	141	PHE
42	EM	152	LEU
42	EM	153	LEU
42	EM	154	MET
42	EM	157	LEU
42	EM	158	SER
42	EM	163	LYS
42	EM	164	LYS
42	EM	166	LYS
42	EM	170	SER
42	EM	179	THR
42	EM	182	VAL
42	EM	186	ASN
42	EM	187	SER
42	EM	188	ILE
42	EM	192	HIS
42	EM	193	THR
42	EM	196	GLU
42	EM	197	HIS
42	EM	199	ASP
42	EM	200	CYS
42	EM	204	VAL
42	EM	211	ASP
42	EM	214	ARG
42	EM	217	LEU
42	EM	219	ILE
42	EM	220	GLU
42	EM	221	ARG
42	EM	222	PRO
42	EM	223	THR
42	EM	227	LEU
42	EM	238	ILE

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Mol	Chain	Res	Type
42	EM	241	SER
42	EM	248	LEU
42	EM	249	ASN
42	EM	250	VAL
42	EM	252	LEU
42	EM	253	THR
42	EM	256	GLN
42	EM	258	ASN
42	EM	265	ILE
42	EM	266	HIS
42	EM	269	LEU
42	EM	271	THR
42	EM	275	VAL
42	EM	279	GLU
42	EM	285	GLN
42	EM	290	GLU
42	EM	291	ILE
42	EM	293	ASN
42	EM	302	MET
42	EM	303	VAL
42	EM	308	ARG
42	EM	309	HIS
42	EM	311	LYS
42	EM	316	CYS
42	EM	323	VAL
42	EM	326	LYS
42	EM	327	ASP
42	EM	332	ILE
42	EM	338	LYS
42	EM	339	ARG
42	EM	341	ILE
42	EM	347	CYS
42	EM	362	VAL
42	EM	363	VAL
42	EM	370	LYS
42	EM	371	VAL
42	EM	373	ARG
42	EM	376	CYS
42	EM	379	SER
42	EM	382	THR
42	EM	384	ILE
42	EM	390	ARG

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Mol	Chain	Res	Type
42	EM	391	LEU
42	EM	392	ASP
42	EM	402	ARG
42	EM	406	HIS
42	EM	409	VAL
42	EM	411	GLU
42	EM	414	GLU
42	EM	418	PHE
42	EM	420	GLU
42	EM	422	ARG
42	EM	423	GLU
42	EM	425	MET
42	EM	428	LEU
42	EM	430	LYS
42	EM	431	ASP
42	EM	433	GLU
42	EM	434	GLU
42	EM	437	MET
42	FC	1	MET
42	FC	2	ARG
42	FC	3	GLU
42	FC	4	CYS
42	FC	6	SER
42	FC	9	VAL
42	FC	11	GLN
42	FC	16	ILE
42	FC	18	ASN
42	FC	20	CYS
42	FC	26	LEU
42	FC	27	GLU
42	FC	30	ILE
42	FC	31	GLN
42	FC	33	ASP
42	FC	35	GLN
42	FC	36	MET
42	FC	51	THR
42	FC	55	GLU
42	FC	60	LYS
42	FC	62	VAL
42	FC	64	ARG
42	FC	70	LEU
42	FC	71	GLU

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Mol	Chain	Res	Type
42	FC	73	THR
42	FC	74	VAL
42	FC	75	ILE
42	FC	82	THR
42	FC	85	GLN
42	FC	86	LEU
42	FC	90	GLU
42	FC	91	GLN
42	FC	94	THR
42	FC	96	LYS
42	FC	98	ASP
42	FC	101	ASN
42	FC	105	ARG
42	FC	110	ILE
42	FC	112	LYS
42	FC	113	GLU
42	FC	114	LEU
42	FC	118	VAL
42	FC	119	LEU
42	FC	123	ARG
42	FC	127	ASP
42	FC	130	THR
42	FC	133	GLN
42	FC	140	SER
42	FC	141	PHE
42	FC	145	THR
42	FC	149	PHE
42	FC	153	LEU
42	FC	154	MET
42	FC	156	ARG
42	FC	160	ASP
42	FC	161	TYR
42	FC	163	LYS
42	FC	165	SER
42	FC	166	LYS
42	FC	167	LEU
42	FC	171	ILE
42	FC	176	GLN
42	FC	177	VAL
42	FC	178	SER
42	FC	179	THR
42	FC	181	VAL

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Mol	Chain	Res	Type
42	FC	187	SER
42	FC	189	LEU
42	FC	193	THR
42	FC	194	THR
42	FC	195	LEU
42	FC	199	ASP
42	FC	204	VAL
42	FC	209	ILE
42	FC	210	TYR
42	FC	211	ASP
42	FC	217	LEU
42	FC	220	GLU
42	FC	223	THR
42	FC	227	LEU
42	FC	228	ASN
42	FC	230	LEU
42	FC	236	SER
42	FC	237	SER
42	FC	238	ILE
42	FC	241	SER
42	FC	242	LEU
42	FC	243	ARG
42	FC	244	PHE
42	FC	250	VAL
42	FC	251	ASP
42	FC	254	GLU
42	FC	256	GLN
42	FC	258	ASN
42	FC	259	LEU
42	FC	264	ARG
42	FC	269	LEU
42	FC	279	GLU
42	FC	290	GLU
42	FC	291	ILE
42	FC	297	GLU
42	FC	300	ASN
42	FC	301	GLN
42	FC	304	LYS
42	FC	305	CYS
42	FC	308	ARG
42	FC	311	LYS
42	FC	315	CYS

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Mol	Chain	Res	Type
42	FC	327	ASP
42	FC	328	VAL
42	FC	329	ASN
42	FC	336	LYS
42	FC	339	ARG
42	FC	340	THR
42	FC	341	ILE
42	FC	345	ASP
42	FC	352	LYS
42	FC	355	ILE
42	FC	362	VAL
42	FC	363	VAL
42	FC	367	ASP
42	FC	370	LYS
42	FC	373	ARG
42	FC	375	VAL
42	FC	377	MET
42	FC	379	SER
42	FC	382	THR
42	FC	390	ARG
42	FC	394	LYS
42	FC	397	LEU
42	FC	399	TYR
42	FC	401	LYS
42	FC	402	ARG
42	FC	406	HIS
42	FC	411	GLU
42	FC	413	MET
42	FC	414	GLU
42	FC	417	GLU
42	FC	420	GLU
42	FC	422	ARG
42	FC	424	ASP
42	FC	425	MET
42	FC	429	GLU
42	FC	430	LYS
42	FC	434	GLU
42	FC	437	MET
42	FC	440	VAL
41	FD	1	MET
41	FD	2	ARG
41	FD	4	ILE

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Mol	Chain	Res	Type
41	FD	6	HIS
41	FD	7	LEU
41	FD	19	LYS
41	FD	24	ILE
41	FD	28	HIS
41	FD	31	ASP
41	FD	35	THR
41	FD	39	ASP
41	FD	41	ASP
41	FD	44	LEU
41	FD	45	GLU
41	FD	49	VAL
41	FD	55	THR
41	FD	66	VAL
41	FD	73	MET
41	FD	77	ARG
41	FD	81	PHE
41	FD	83	GLN
41	FD	84	ILE
41	FD	86	ARG
41	FD	91	VAL
41	FD	94	GLN
41	FD	100	ASN
41	FD	103	LYS
41	FD	112	LEU
41	FD	114	ASP
41	FD	117	LEU
41	FD	119	VAL
41	FD	121	ARG
41	FD	122	LYS
41	FD	123	GLU
41	FD	127	CYS
41	FD	129	CYS
41	FD	130	LEU
41	FD	131	GLN
41	FD	134	GLN
41	FD	135	LEU
41	FD	136	THR
41	FD	153	SER
41	FD	155	ILE
41	FD	159	TYR
41	FD	161	ASP

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Mol	Chain	Res	Type
41	FD	162	ARG
41	FD	163	ILE
41	FD	165	ASN
41	FD	166	THR
41	FD	170	VAL
41	FD	172	SER
41	FD	174	LYS
41	FD	175	VAL
41	FD	178	THR
41	FD	186	THR
41	FD	192	LEU
41	FD	194	GLU
41	FD	199	THR
41	FD	202	ILE
41	FD	204	ASN
41	FD	209	ASP
41	FD	210	ILE
41	FD	212	PHE
41	FD	213	ARG
41	FD	214	THR
41	FD	216	LYS
41	FD	217	LEU
41	FD	218	THR
41	FD	219	THR
41	FD	221	THR
41	FD	225	LEU
41	FD	234	SER
41	FD	240	LEU
41	FD	251	ARG
41	FD	252	LYS
41	FD	257	MET
41	FD	261	PRO
41	FD	262	ARG
41	FD	263	LEU
41	FD	264	HIS
41	FD	267	MET
41	FD	273	LEU
41	FD	274	THR
41	FD	275	SER
41	FD	280	GLN
41	FD	284	LEU
41	FD	286	VAL

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Mol	Chain	Res	Type
41	FD	288	GLU
41	FD	295	ASP
41	FD	309	ARG
41	FD	312	THR
41	FD	313	VAL
41	FD	316	VAL
41	FD	322	SER
41	FD	324	LYS
41	FD	332	ASN
41	FD	336	LYS
41	FD	337	ASN
41	FD	343	GLU
41	FD	345	ILE
41	FD	346	PRO
41	FD	347	ASN
41	FD	348	ASN
41	FD	349	VAL
41	FD	351	THR
41	FD	354	CYS
41	FD	355	ASP
41	FD	362	LYS
41	FD	363	MET
41	FD	364	SER
41	FD	371	SER
41	FD	374	ILE
41	FD	375	GLN
41	FD	380	ARG
41	FD	381	ILE
41	FD	382	SER
41	FD	386	THR
41	FD	390	ARG
41	FD	391	ARG
41	FD	392	LYS
41	FD	395	LEU
41	FD	396	HIS
41	FD	403	MET
41	FD	404	ASP
41	FD	406	MET
41	FD	408	PHE
41	FD	415	MET
41	FD	417	ASP
41	FD	418	LEU

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Mol	Chain	Res	Type
41	FD	420	SER
41	FD	421	GLU
41	FD	422	TYR
41	FD	426	GLN
41	FD	427	ASP
41	FF	2	ARG
41	FF	241	ARG
41	FF	320	ARG
41	FF	321	MET
41	FF	323	MET
41	FF	324	LYS
41	FF	325	GLU
41	FF	332	ASN
41	FF	334	GLN
41	FF	336	LYS
42	FG	2	ARG
42	FG	101	ASN
42	FG	219	ILE
42	FG	220	GLU
42	FG	221	ARG
42	FG	224	TYR
42	FI	2	ARG
42	FI	216	ASN
42	FI	422	ARG
41	FJ	2	ARG
41	FJ	320	ARG
41	FJ	390	ARG
42	FK	1	MET
42	FK	3	GLU
42	FK	4	CYS
42	FK	6	SER
42	FK	7	VAL
42	FK	9	VAL
42	FK	16	ILE
42	FK	18	ASN
42	FK	20	CYS
42	FK	23	LEU
42	FK	27	GLU
42	FK	28	HIS
42	FK	30	ILE
42	FK	33	ASP
42	FK	52	PHE

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Mol	Chain	Res	Type
42	FK	56	THR
42	FK	60	LYS
42	FK	62	VAL
42	FK	64	ARG
42	FK	66	VAL
42	FK	69	ASP
42	FK	70	LEU
42	FK	74	VAL
42	FK	79	ARG
42	FK	84	ARG
42	FK	86	LEU
42	FK	101	ASN
42	FK	108	TYR
42	FK	109	THR
42	FK	112	LYS
42	FK	114	LEU
42	FK	119	LEU
42	FK	125	LEU
42	FK	127	ASP
42	FK	133	GLN
42	FK	135	PHE
42	FK	136	LEU
42	FK	137	ILE
42	FK	141	PHE
42	FK	145	THR
42	FK	153	LEU
42	FK	160	ASP
42	FK	163	LYS
42	FK	164	LYS
42	FK	166	LYS
42	FK	168	GLU
42	FK	170	SER
42	FK	171	ILE
42	FK	178	SER
42	FK	188	ILE
42	FK	192	HIS
42	FK	195	LEU
42	FK	197	HIS
42	FK	200	CYS
42	FK	202	PHE
42	FK	203	MET
42	FK	204	VAL

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Mol	Chain	Res	Type
42	FK	205	ASP
42	FK	213	CYS
42	FK	218	ASP
42	FK	220	GLU
42	FK	224	TYR
42	FK	227	LEU
42	FK	229	ARG
42	FK	230	LEU
42	FK	237	SER
42	FK	239	THR
42	FK	241	SER
42	FK	243	ARG
42	FK	245	ASP
42	FK	249	ASN
42	FK	258	ASN
42	FK	259	LEU
42	FK	260	VAL
42	FK	264	ARG
42	FK	265	ILE
42	FK	266	HIS
42	FK	269	LEU
42	FK	275	VAL
42	FK	276	ILE
42	FK	280	LYS
42	FK	283	HIS
42	FK	288	VAL
42	FK	291	ILE
42	FK	293	ASN
42	FK	295	CYS
42	FK	297	GLU
42	FK	301	GLN
42	FK	303	VAL
42	FK	304	LYS
42	FK	313	MET
42	FK	315	CYS
42	FK	316	CYS
42	FK	317	LEU
42	FK	318	LEU
42	FK	320	ARG
42	FK	323	VAL
42	FK	326	LYS
42	FK	327	ASP

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Mol	Chain	Res	Type
42	FK	336	LYS
42	FK	339	ARG
42	FK	340	THR
42	FK	342	GLN
42	FK	345	ASP
42	FK	347	CYS
42	FK	349	THR
42	FK	351	PHE
42	FK	356	ASN
42	FK	361	THR
42	FK	362	VAL
42	FK	363	VAL
42	FK	367	ASP
42	FK	368	LEU
42	FK	370	LYS
42	FK	373	ARG
42	FK	376	CYS
42	FK	377	MET
42	FK	378	LEU
42	FK	380	ASN
42	FK	381	THR
42	FK	382	THR
42	FK	384	ILE
42	FK	394	LYS
42	FK	397	LEU
42	FK	401	LYS
42	FK	402	ARG
42	FK	409	VAL
42	FK	415	GLU
42	FK	419	SER
42	FK	422	ARG
42	FK	423	GLU
42	FK	424	ASP
42	FK	425	MET
42	FK	428	LEU
42	FK	430	LYS
42	FK	432	TYR
42	FK	433	GLU
42	FK	437	MET
42	FK	438	ASP
41	FL	2	ARG
41	FL	3	GLU

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Mol	Chain	Res	Type
41	FL	5	VAL
41	FL	7	LEU
41	FL	8	GLN
41	FL	12	CYS
41	FL	19	LYS
41	FL	20	PHE
41	FL	22	GLU
41	FL	24	ILE
41	FL	31	ASP
41	FL	42	LEU
41	FL	50	TYR
41	FL	55	THR
41	FL	58	LYS
41	FL	62	ARG
41	FL	66	VAL
41	FL	69	GLU
41	FL	75	SER
41	FL	78	SER
41	FL	84	ILE
41	FL	88	ASP
41	FL	90	PHE
41	FL	91	VAL
41	FL	94	GLN
41	FL	95	SER
41	FL	100	ASN
41	FL	111	GLU
41	FL	112	LEU
41	FL	114	ASP
41	FL	122	LYS
41	FL	125	GLU
41	FL	127	CYS
41	FL	130	LEU
41	FL	134	GLN
41	FL	135	LEU
41	FL	136	THR
41	FL	137	HIS
41	FL	139	LEU
41	FL	151	LEU
41	FL	156	ARG
41	FL	161	ASP
41	FL	162	ARG
41	FL	163	ILE

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Mol	Chain	Res	Type
41	FL	165	ASN
41	FL	166	THR
41	FL	168	SER
41	FL	170	VAL
41	FL	172	SER
41	FL	174	LYS
41	FL	178	THR
41	FL	180	VAL
41	FL	192	LEU
41	FL	193	VAL
41	FL	194	GLU
41	FL	202	ILE
41	FL	209	ASP
41	FL	210	ILE
41	FL	212	PHE
41	FL	215	LEU
41	FL	216	LYS
41	FL	218	THR
41	FL	219	THR
41	FL	224	ASP
41	FL	228	LEU
41	FL	237	THR
41	FL	238	THR
41	FL	239	CYS
41	FL	247	ASN
41	FL	250	LEU
41	FL	251	ARG
41	FL	253	LEU
41	FL	267	MET
41	FL	274	THR
41	FL	275	SER
41	FL	280	GLN
41	FL	282	ARG
41	FL	284	LEU
41	FL	286	VAL
41	FL	288	GLU
41	FL	290	THR
41	FL	291	GLN
41	FL	293	MET
41	FL	297	LYS
41	FL	306	ARG
41	FL	309	ARG

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Mol	Chain	Res	Type
41	FL	310	TYR
41	FL	311	LEU
41	FL	313	VAL
41	FL	316	VAL
41	FL	318	ARG
41	FL	321	MET
41	FL	322	SER
41	FL	324	LYS
41	FL	325	GLU
41	FL	328	GLU
41	FL	336	LYS
41	FL	338	SER
41	FL	342	VAL
41	FL	343	GLU
41	FL	344	TRP
41	FL	348	ASN
41	FL	349	VAL
41	FL	351	THR
41	FL	354	CYS
41	FL	359	ARG
41	FL	361	LEU
41	FL	362	LYS
41	FL	366	THR
41	FL	368	ILE
41	FL	374	ILE
41	FL	375	GLN
41	FL	379	LYS
41	FL	380	ARG
41	FL	381	ILE
41	FL	382	SER
41	FL	391	ARG
41	FL	392	LYS
41	FL	395	LEU
41	FL	403	MET
41	FL	405	GLU
41	FL	407	GLU
41	FL	409	THR
41	FL	419	VAL
41	FL	420	SER
41	FL	422	TYR
41	FL	423	GLN
41	FL	426	GLN

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Mol	Chain	Res	Type
42	FM	2	ARG
42	FM	390	ARG
42	GC	339	ARG
42	GC	358	GLN
41	GD	1	MET
41	GD	2	ARG
41	GD	8	GLN
41	GD	12	CYS
41	GD	19	LYS
41	GD	24	ILE
41	GD	30	ILE
41	GD	33	THR
41	GD	35	THR
41	GD	40	SER
41	GD	44	LEU
41	GD	45	GLU
41	GD	46	ARG
41	GD	47	ILE
41	GD	60	VAL
41	GD	64	VAL
41	GD	68	LEU
41	GD	69	GLU
41	GD	74	ASP
41	GD	76	VAL
41	GD	77	ARG
41	GD	88	ASP
41	GD	94	GLN
41	GD	95	SER
41	GD	99	ASN
41	GD	101	TRP
41	GD	107	THR
41	GD	108	GLU
41	GD	114	ASP
41	GD	117	LEU
41	GD	118	ASP
41	GD	119	VAL
41	GD	121	ARG
41	GD	122	LYS
41	GD	130	LEU
41	GD	131	GLN
41	GD	136	THR
41	GD	152	ILE

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Mol	Chain	Res	Type
41	GD	154	LYS
41	GD	156	ARG
41	GD	157	GLU
41	GD	161	ASP
41	GD	163	ILE
41	GD	165	ASN
41	GD	170	VAL
41	GD	171	PRO
41	GD	172	SER
41	GD	174	LYS
41	GD	176	SER
41	GD	178	THR
41	GD	179	VAL
41	GD	181	GLU
41	GD	187	LEU
41	GD	192	LEU
41	GD	193	VAL
41	GD	199	THR
41	GD	202	ILE
41	GD	208	TYR
41	GD	209	ASP
41	GD	212	PHE
41	GD	215	LEU
41	GD	216	LYS
41	GD	217	LEU
41	GD	224	ASP
41	GD	227	HIS
41	GD	229	VAL
41	GD	237	THR
41	GD	246	LEU
41	GD	252	LYS
41	GD	257	MET
41	GD	258	VAL
41	GD	262	ARG
41	GD	263	LEU
41	GD	270	PHE
41	GD	276	ARG
41	GD	279	GLN
41	GD	280	GLN
41	GD	282	ARG
41	GD	289	LEU
41	GD	290	THR

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Mol	Chain	Res	Type
41	GD	292	GLN
41	GD	293	MET
41	GD	300	MET
41	GD	309	ARG
41	GD	312	THR
41	GD	313	VAL
41	GD	316	VAL
41	GD	318	ARG
41	GD	320	ARG
41	GD	324	LYS
41	GD	328	GLU
41	GD	330	MET
41	GD	332	ASN
41	GD	334	GLN
41	GD	335	ASN
41	GD	337	ASN
41	GD	342	VAL
41	GD	345	ILE
41	GD	346	PRO
41	GD	349	VAL
41	GD	350	LYS
41	GD	353	VAL
41	GD	359	ARG
41	GD	362	LYS
41	GD	363	MET
41	GD	375	GLN
41	GD	377	LEU
41	GD	379	LYS
41	GD	389	PHE
41	GD	391	ARG
41	GD	392	LYS
41	GD	395	LEU
41	GD	403	MET
41	GD	404	ASP
41	GD	405	GLU
41	GD	415	MET
41	GD	427	ASP
42	GE	88	HIS
41	GF	204	ASN
42	GG	2	ARG
42	GG	197	HIS
41	GH	347	ASN

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Mol	Chain	Res	Type
42	GI	216	ASN
41	GJ	1	MET
41	GJ	3	GLU
41	GJ	4	ILE
41	GJ	7	LEU
41	GJ	12	CYS
41	GJ	19	LYS
41	GJ	22	GLU
41	GJ	26	ASP
41	GJ	30	ILE
41	GJ	31	ASP
41	GJ	39	ASP
41	GJ	42	LEU
41	GJ	45	GLU
41	GJ	46	ARG
41	GJ	47	ILE
41	GJ	48	ASN
41	GJ	49	VAL
41	GJ	58	LYS
41	GJ	60	VAL
41	GJ	62	ARG
41	GJ	66	VAL
41	GJ	72	THR
41	GJ	74	ASP
41	GJ	75	SER
41	GJ	86	ARG
41	GJ	94	GLN
41	GJ	95	SER
41	GJ	100	ASN
41	GJ	103	LYS
41	GJ	105	HIS
41	GJ	117	LEU
41	GJ	118	ASP
41	GJ	122	LYS
41	GJ	123	GLU
41	GJ	125	GLU
41	GJ	128	ASP
41	GJ	129	CYS
41	GJ	130	LEU
41	GJ	135	LEU
41	GJ	136	THR
41	GJ	147	MET

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Mol	Chain	Res	Type
41	GJ	152	ILE
41	GJ	154	LYS
41	GJ	156	ARG
41	GJ	161	ASP
41	GJ	162	ARG
41	GJ	163	ILE
41	GJ	166	THR
41	GJ	169	VAL
41	GJ	170	VAL
41	GJ	172	SER
41	GJ	174	LYS
41	GJ	175	VAL
41	GJ	176	SER
41	GJ	177	ASP
41	GJ	180	VAL
41	GJ	187	LEU
41	GJ	192	LEU
41	GJ	199	THR
41	GJ	205	GLU
41	GJ	210	ILE
41	GJ	211	CYS
41	GJ	213	ARG
41	GJ	214	THR
41	GJ	216	LYS
41	GJ	217	LEU
41	GJ	218	THR
41	GJ	221	THR
41	GJ	222	TYR
41	GJ	228	LEU
41	GJ	232	THR
41	GJ	240	LEU
41	GJ	245	GLN
41	GJ	249	ASP
41	GJ	250	LEU
41	GJ	262	ARG
41	GJ	274	THR
41	GJ	276	ARG
41	GJ	279	GLN
41	GJ	282	ARG
41	GJ	284	LEU
41	GJ	295	ASP
41	GJ	297	LYS

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Mol	Chain	Res	Type
41	GJ	303	CYS
41	GJ	304	ASP
41	GJ	306	ARG
41	GJ	310	TYR
41	GJ	313	VAL
41	GJ	316	VAL
41	GJ	320	ARG
41	GJ	321	MET
41	GJ	322	SER
41	GJ	333	VAL
41	GJ	336	LYS
41	GJ	346	PRO
41	GJ	347	ASN
41	GJ	348	ASN
41	GJ	349	VAL
41	GJ	350	LYS
41	GJ	351	THR
41	GJ	354	CYS
41	GJ	359	ARG
41	GJ	362	LYS
41	GJ	364	SER
41	GJ	371	SER
41	GJ	376	GLU
41	GJ	379	LYS
41	GJ	383	GLU
41	GJ	384	GLN
41	GJ	390	ARG
41	GJ	395	LEU
41	GJ	401	GLU
41	GJ	403	MET
41	GJ	404	ASP
41	GJ	415	MET
41	GJ	421	GLU
41	GJ	424	GLN
41	GJ	427	ASP
42	GK	373	ARG
42	GM	1	MET
42	GM	3	GLU
42	GM	4	CYS
42	GM	6	SER
42	GM	7	VAL
42	GM	9	VAL

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Mol	Chain	Res	Type
42	GM	15	GLN
42	GM	22	GLU
42	GM	23	LEU
42	GM	30	ILE
42	GM	31	GLN
42	GM	35	GLN
42	GM	36	MET
42	GM	40	LYS
42	GM	56	THR
42	GM	60	LYS
42	GM	62	VAL
42	GM	68	VAL
42	GM	71	GLU
42	GM	73	THR
42	GM	75	ILE
42	GM	78	VAL
42	GM	80	THR
42	GM	82	THR
42	GM	84	ARG
42	GM	90	GLU
42	GM	101	ASN
42	GM	109	THR
42	GM	119	LEU
42	GM	120	ASP
42	GM	121	ARG
42	GM	124	LYS
42	GM	127	ASP
42	GM	128	GLN
42	GM	130	THR
42	GM	132	LEU
42	GM	133	GLN
42	GM	137	ILE
42	GM	140	SER
42	GM	150	THR
42	GM	157	LEU
42	GM	158	SER
42	GM	163	LYS
42	GM	164	LYS
42	GM	166	LYS
42	GM	169	PHE
42	GM	176	GLN
42	GM	181	VAL

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Mol	Chain	Res	Type
42	GM	182	VAL
42	GM	189	LEU
42	GM	192	HIS
42	GM	193	THR
42	GM	196	GLU
42	GM	197	HIS
42	GM	200	CYS
42	GM	202	PHE
42	GM	203	MET
42	GM	205	ASP
42	GM	209	ILE
42	GM	210	TYR
42	GM	211	ASP
42	GM	213	CYS
42	GM	214	ARG
42	GM	215	ARG
42	GM	217	LEU
42	GM	219	ILE
42	GM	227	LEU
42	GM	230	LEU
42	GM	234	ILE
42	GM	236	SER
42	GM	237	SER
42	GM	241	SER
42	GM	243	ARG
42	GM	248	LEU
42	GM	255	PHE
42	GM	260	VAL
42	GM	264	ARG
42	GM	265	ILE
42	GM	269	LEU
42	GM	271	THR
42	GM	272	TYR
42	GM	276	ILE
42	GM	280	LYS
42	GM	285	GLN
42	GM	290	GLU
42	GM	291	ILE
42	GM	293	ASN
42	GM	295	CYS
42	GM	302	MET
42	GM	305	CYS

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Mol	Chain	Res	Type
42	GM	308	ARG
42	GM	311	LYS
42	GM	313	MET
42	GM	315	CYS
42	GM	322	ASP
42	GM	323	VAL
42	GM	324	VAL
42	GM	326	LYS
42	GM	327	ASP
42	GM	329	ASN
42	GM	332	ILE
42	GM	336	LYS
42	GM	338	LYS
42	GM	339	ARG
42	GM	340	THR
42	GM	342	GLN
42	GM	343	PHE
42	GM	345	ASP
42	GM	347	CYS
42	GM	349	THR
42	GM	352	LYS
42	GM	361	THR
42	GM	363	VAL
42	GM	370	LYS
42	GM	371	VAL
42	GM	372	GLN
42	GM	376	CYS
42	GM	377	MET
42	GM	379	SER
42	GM	381	THR
42	GM	382	THR
42	GM	384	ILE
42	GM	386	GLU
42	GM	390	ARG
42	GM	391	LEU
42	GM	401	LYS
42	GM	402	ARG
42	GM	405	VAL
42	GM	406	HIS
42	GM	414	GLU
42	GM	420	GLU
42	GM	422	ARG

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Mol	Chain	Res	Type
42	GM	423	GLU
42	GM	424	ASP
42	GM	425	MET
42	GM	437	MET
42	GM	438	ASP
41	HB	122	LYS
41	HB	125	GLU
41	HB	127	CYS
41	HB	128	ASP
41	HB	130	LEU
41	HB	131	GLN
41	HB	190	HIS
42	HC	2	ARG
42	HC	3	GLU
42	HC	5	ILE
42	HC	7	VAL
42	HC	9	VAL
42	HC	14	VAL
42	HC	22	GLU
42	HC	26	LEU
42	HC	30	ILE
42	HC	35	GLN
42	HC	36	MET
42	HC	50	ASN
42	HC	51	THR
42	HC	54	SER
42	HC	55	GLU
42	HC	62	VAL
42	HC	64	ARG
42	HC	69	ASP
42	HC	70	LEU
42	HC	71	GLU
42	HC	77	GLU
42	HC	79	ARG
42	HC	92	LEU
42	HC	96	LYS
42	HC	98	ASP
42	HC	108	TYR
42	HC	112	LYS
42	HC	115	ILE
42	HC	116	ASP
42	HC	117	LEU

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Mol	Chain	Res	Type
42	HC	118	VAL
42	HC	119	LEU
42	HC	124	LYS
42	HC	125	LEU
42	HC	129	CYS
42	HC	130	THR
42	HC	132	LEU
42	HC	137	ILE
42	HC	141	PHE
42	HC	145	THR
42	HC	151	SER
42	HC	154	MET
42	HC	155	GLU
42	HC	156	ARG
42	HC	157	LEU
42	HC	163	LYS
42	HC	164	LYS
42	HC	166	LYS
42	HC	181	VAL
42	HC	188	ILE
42	HC	190	THR
42	HC	191	THR
42	HC	195	LEU
42	HC	197	HIS
42	HC	200	CYS
42	HC	203	MET
42	HC	204	VAL
42	HC	210	TYR
42	HC	212	ILE
42	HC	213	CYS
42	HC	215	ARG
42	HC	216	ASN
42	HC	217	LEU
42	HC	218	ASP
42	HC	221	ARG
42	HC	226	ASN
42	HC	229	ARG
42	HC	230	LEU
42	HC	241	SER
42	HC	242	LEU
42	HC	243	ARG
42	HC	248	LEU

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Mol	Chain	Res	Type
42	HC	257	THR
42	HC	259	LEU
42	HC	269	LEU
42	HC	271	THR
42	HC	277	SER
42	HC	280	LYS
42	HC	282	TYR
42	HC	286	LEU
42	HC	287	SER
42	HC	290	GLU
42	HC	295	CYS
42	HC	302	MET
42	HC	304	LYS
42	HC	305	CYS
42	HC	306	ASP
42	HC	308	ARG
42	HC	309	HIS
42	HC	311	LYS
42	HC	313	MET
42	HC	315	CYS
42	HC	318	LEU
42	HC	323	VAL
42	HC	324	VAL
42	HC	326	LYS
42	HC	327	ASP
42	HC	328	VAL
42	HC	334	THR
42	HC	336	LYS
42	HC	341	ILE
42	HC	342	GLN
42	HC	344	VAL
42	HC	358	GLN
42	HC	362	VAL
42	HC	363	VAL
42	HC	368	LEU
42	HC	370	LYS
42	HC	371	VAL
42	HC	372	GLN
42	HC	373	ARG
42	HC	377	MET
42	HC	378	LEU
42	HC	382	THR

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Mol	Chain	Res	Type
42	HC	384	ILE
42	HC	390	ARG
42	HC	391	LEU
42	HC	392	ASP
42	HC	401	LYS
42	HC	402	ARG
42	HC	405	VAL
42	HC	406	HIS
42	HC	407	TRP
42	HC	415	GLU
42	HC	417	GLU
42	HC	420	GLU
42	HC	424	ASP
42	HC	425	MET
42	HC	434	GLU
42	HC	437	MET
41	HD	2	ARG
41	HD	4	ILE
41	HD	7	LEU
41	HD	12	CYS
41	HD	19	LYS
41	HD	25	SER
41	HD	32	PRO
41	HD	33	THR
41	HD	37	HIS
41	HD	46	ARG
41	HD	47	ILE
41	HD	58	LYS
41	HD	60	VAL
41	HD	62	ARG
41	HD	65	LEU
41	HD	73	MET
41	HD	77	ARG
41	HD	84	ILE
41	HD	86	ARG
41	HD	91	VAL
41	HD	103	LYS
41	HD	108	GLU
41	HD	117	LEU
41	HD	118	ASP
41	HD	121	ARG
41	HD	122	LYS

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Mol	Chain	Res	Type
41	HD	129	CYS
41	HD	133	PHE
41	HD	138	SER
41	HD	145	SER
41	HD	147	MET
41	HD	150	LEU
41	HD	153	SER
41	HD	154	LYS
41	HD	156	ARG
41	HD	157	GLU
41	HD	161	ASP
41	HD	162	ARG
41	HD	164	MET
41	HD	166	THR
41	HD	171	PRO
41	HD	172	SER
41	HD	174	LYS
41	HD	176	SER
41	HD	177	ASP
41	HD	178	THR
41	HD	180	VAL
41	HD	189	VAL
41	HD	191	GLN
41	HD	192	LEU
41	HD	196	THR
41	HD	202	ILE
41	HD	210	ILE
41	HD	214	THR
41	HD	215	LEU
41	HD	216	LYS
41	HD	217	LEU
41	HD	221	THR
41	HD	222	TYR
41	HD	224	ASP
41	HD	240	LEU
41	HD	246	LEU
41	HD	247	ASN
41	HD	252	LYS
41	HD	258	VAL
41	HD	262	ARG
41	HD	267	MET
41	HD	270	PHE

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Mol	Chain	Res	Type
41	HD	273	LEU
41	HD	274	THR
41	HD	276	ARG
41	HD	279	GLN
41	HD	280	GLN
41	HD	284	LEU
41	HD	286	VAL
41	HD	289	LEU
41	HD	292	GLN
41	HD	299	MET
41	HD	303	CYS
41	HD	306	ARG
41	HD	312	THR
41	HD	316	VAL
41	HD	320	ARG
41	HD	322	SER
41	HD	324	LYS
41	HD	331	LEU
41	HD	332	ASN
41	HD	336	LYS
41	HD	343	GLU
41	HD	345	ILE
41	HD	347	ASN
41	HD	348	ASN
41	HD	350	LYS
41	HD	351	THR
41	HD	361	LEU
41	HD	362	LYS
41	HD	363	MET
41	HD	364	SER
41	HD	372	THR
41	HD	374	ILE
41	HD	379	LYS
41	HD	380	ARG
41	HD	383	GLU
41	HD	388	MET
41	HD	390	ARG
41	HD	401	GLU
41	HD	403	MET
41	HD	404	ASP
41	HD	406	MET
41	HD	407	GLU

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Mol	Chain	Res	Type
41	HD	410	GLU
41	HD	415	MET
41	HD	422	TYR
41	HD	424	GLN
41	HD	426	GLN
41	HD	427	ASP
42	HE	2	ARG
42	HE	422	ARG
41	HF	247	ASN
42	HG	1	MET
42	HG	2	ARG
42	HG	3	GLU
42	HG	14	VAL
42	HG	20	CYS
42	HG	23	LEU
42	HG	25	CYS
42	HG	26	LEU
42	HG	30	ILE
42	HG	48	SER
42	HG	54	SER
42	HG	56	THR
42	HG	62	VAL
42	HG	66	VAL
42	HG	68	VAL
42	HG	71	GLU
42	HG	72	PRO
42	HG	75	ILE
42	HG	84	ARG
42	HG	90	GLU
42	HG	91	GLN
42	HG	101	ASN
42	HG	105	ARG
42	HG	112	LYS
42	HG	120	ASP
42	HG	130	THR
42	HG	133	GLN
42	HG	137	ILE
42	HG	141	PHE
42	HG	156	ARG
42	HG	157	LEU
42	HG	159	VAL
42	HG	160	ASP

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Mol	Chain	Res	Type
42	HG	163	LYS
42	HG	164	LYS
42	HG	165	SER
42	HG	168	GLU
42	HG	176	GLN
42	HG	177	VAL
42	HG	181	VAL
42	HG	183	GLU
42	HG	187	SER
42	HG	189	LEU
42	HG	194	THR
42	HG	195	LEU
42	HG	200	CYS
42	HG	214	ARG
42	HG	215	ARG
42	HG	217	LEU
42	HG	218	ASP
42	HG	221	ARG
42	HG	225	THR
42	HG	234	ILE
42	HG	238	ILE
42	HG	242	LEU
42	HG	244	PHE
42	HG	248	LEU
42	HG	250	VAL
42	HG	259	LEU
42	HG	264	ARG
42	HG	269	LEU
42	HG	276	ILE
42	HG	280	LYS
42	HG	284	GLU
42	HG	285	GLN
42	HG	286	LEU
42	HG	295	CYS
42	HG	302	MET
42	HG	304	LYS
42	HG	308	ARG
42	HG	311	LYS
42	HG	315	CYS
42	HG	316	CYS
42	HG	320	ARG
42	HG	324	VAL

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Mol	Chain	Res	Type
42	HG	326	LYS
42	HG	327	ASP
42	HG	328	VAL
42	HG	334	THR
42	HG	338	LYS
42	HG	339	ARG
42	HG	345	ASP
42	HG	347	CYS
42	HG	352	LYS
42	HG	353	VAL
42	HG	355	ILE
42	HG	356	ASN
42	HG	362	VAL
42	HG	363	VAL
42	HG	368	LEU
42	HG	370	LYS
42	HG	373	ARG
42	HG	376	CYS
42	HG	379	SER
42	HG	382	THR
42	HG	384	ILE
42	HG	390	ARG
42	HG	391	LEU
42	HG	394	LYS
42	HG	396	ASP
42	HG	401	LYS
42	HG	411	GLU
42	HG	422	ARG
42	HG	423	GLU
42	HG	424	ASP
42	HG	432	TYR
42	HG	439	SER
41	HH	306	ARG
41	HH	335	ASN
41	HH	423	GLN
42	HI	1	MET
42	HI	7	VAL
42	HI	9	VAL
42	HI	20	CYS
42	HI	23	LEU
42	HI	25	CYS
42	HI	26	LEU

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Mol	Chain	Res	Type
42	HI	35	GLN
42	HI	48	SER
42	HI	49	PHE
42	HI	51	THR
42	HI	52	PHE
42	HI	55	GLU
42	HI	60	LYS
42	HI	62	VAL
42	HI	64	ARG
42	HI	69	ASP
42	HI	70	LEU
42	HI	75	ILE
42	HI	77	GLU
42	HI	84	ARG
42	HI	93	ILE
42	HI	94	THR
42	HI	97	GLU
42	HI	102	ASN
42	HI	112	LYS
42	HI	114	LEU
42	HI	117	LEU
42	HI	121	ARG
42	HI	124	LYS
42	HI	125	LEU
42	HI	127	ASP
42	HI	129	CYS
42	HI	132	LEU
42	HI	137	ILE
42	HI	149	PHE
42	HI	150	THR
42	HI	151	SER
42	HI	153	LEU
42	HI	154	MET
42	HI	157	LEU
42	HI	163	LYS
42	HI	164	LYS
42	HI	165	SER
42	HI	166	LYS
42	HI	168	GLU
42	HI	178	SER
42	HI	182	VAL
42	HI	193	THR

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Mol	Chain	Res	Type
42	HI	195	LEU
42	HI	196	GLU
42	HI	200	CYS
42	HI	203	MET
42	HI	204	VAL
42	HI	205	ASP
42	HI	211	ASP
42	HI	214	ARG
42	HI	215	ARG
42	HI	217	LEU
42	HI	218	ASP
42	HI	221	ARG
42	HI	225	THR
42	HI	226	ASN
42	HI	236	SER
42	HI	237	SER
42	HI	241	SER
42	HI	242	LEU
42	HI	245	ASP
42	HI	248	LEU
42	HI	249	ASN
42	HI	250	VAL
42	HI	252	LEU
42	HI	256	GLN
42	HI	260	VAL
42	HI	269	LEU
42	HI	272	TYR
42	HI	275	VAL
42	HI	276	ILE
42	HI	279	GLU
42	HI	284	GLU
42	HI	285	GLN
42	HI	286	LEU
42	HI	290	GLU
42	HI	292	THR
42	HI	301	GLN
42	HI	303	VAL
42	HI	306	ASP
42	HI	308	ARG
42	HI	311	LYS
42	HI	313	MET
42	HI	320	ARG

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Mol	Chain	Res	Type
42	HI	323	VAL
42	HI	324	VAL
42	HI	326	LYS
42	HI	327	ASP
42	HI	334	THR
42	HI	338	LYS
42	HI	339	ARG
42	HI	343	PHE
42	HI	345	ASP
42	HI	347	CYS
42	HI	353	VAL
42	HI	356	ASN
42	HI	361	THR
42	HI	362	VAL
42	HI	363	VAL
42	HI	367	ASP
42	HI	368	LEU
42	HI	370	LYS
42	HI	372	GLN
42	HI	376	CYS
42	HI	379	SER
42	HI	384	ILE
42	HI	386	GLU
42	HI	388	TRP
42	HI	391	LEU
42	HI	394	LYS
42	HI	396	ASP
42	HI	397	LEU
42	HI	398	MET
42	HI	409	VAL
42	HI	414	GLU
42	HI	415	GLU
42	HI	417	GLU
42	HI	422	ARG
42	HI	423	GLU
42	HI	425	MET
42	HI	428	LEU
42	HI	429	GLU
42	HI	434	GLU
42	HI	437	MET
42	HI	438	ASP
42	HI	440	VAL

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Mol	Chain	Res	Type
41	HJ	1	MET
41	HJ	2	ARG
41	HJ	3	GLU
41	HJ	4	ILE
41	HJ	24	ILE
41	HJ	25	SER
41	HJ	26	ASP
41	HJ	31	ASP
41	HJ	39	ASP
41	HJ	41	ASP
41	HJ	44	LEU
41	HJ	47	ILE
41	HJ	48	ASN
41	HJ	53	GLU
41	HJ	55	THR
41	HJ	69	GLU
41	HJ	74	ASP
41	HJ	90	PHE
41	HJ	91	VAL
41	HJ	94	GLN
41	HJ	99	ASN
41	HJ	103	LYS
41	HJ	114	ASP
41	HJ	115	SER
41	HJ	118	ASP
41	HJ	121	ARG
41	HJ	126	SER
41	HJ	130	LEU
41	HJ	139	LEU
41	HJ	143	THR
41	HJ	145	SER
41	HJ	147	MET
41	HJ	151	LEU
41	HJ	152	ILE
41	HJ	156	ARG
41	HJ	157	GLU
41	HJ	159	TYR
41	HJ	161	ASP
41	HJ	162	ARG
41	HJ	164	MET
41	HJ	166	THR
41	HJ	170	VAL

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Mol	Chain	Res	Type
41	HJ	174	LYS
41	HJ	175	VAL
41	HJ	177	ASP
41	HJ	180	VAL
41	HJ	181	GLU
41	HJ	190	HIS
41	HJ	193	VAL
41	HJ	199	THR
41	HJ	202	ILE
41	HJ	203	ASP
41	HJ	205	GLU
41	HJ	209	ASP
41	HJ	210	ILE
41	HJ	213	ARG
41	HJ	216	LYS
41	HJ	218	THR
41	HJ	219	THR
41	HJ	221	THR
41	HJ	222	TYR
41	HJ	224	ASP
41	HJ	228	LEU
41	HJ	232	THR
41	HJ	233	MET
41	HJ	237	THR
41	HJ	240	LEU
41	HJ	246	LEU
41	HJ	251	ARG
41	HJ	252	LYS
41	HJ	257	MET
41	HJ	263	LEU
41	HJ	267	MET
41	HJ	270	PHE
41	HJ	274	THR
41	HJ	275	SER
41	HJ	282	ARG
41	HJ	284	LEU
41	HJ	288	GLU
41	HJ	292	GLN
41	HJ	293	MET
41	HJ	297	LYS
41	HJ	298	ASN
41	HJ	309	ARG

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Mol	Chain	Res	Type
41	HJ	312	THR
41	HJ	316	VAL
41	HJ	318	ARG
41	HJ	320	ARG
41	HJ	321	MET
41	HJ	322	SER
41	HJ	324	LYS
41	HJ	330	MET
41	HJ	331	LEU
41	HJ	332	ASN
41	HJ	334	GLN
41	HJ	335	ASN
41	HJ	336	LYS
41	HJ	337	ASN
41	HJ	338	SER
41	HJ	342	VAL
41	HJ	345	ILE
41	HJ	354	CYS
41	HJ	359	ARG
41	HJ	362	LYS
41	HJ	364	SER
41	HJ	366	THR
41	HJ	367	PHE
41	HJ	380	ARG
41	HJ	388	MET
41	HJ	394	PHE
41	HJ	395	LEU
41	HJ	399	THR
41	HJ	403	MET
41	HJ	405	GLU
41	HJ	406	MET
41	HJ	410	GLU
41	HJ	415	MET
41	HJ	418	LEU
41	HJ	421	GLU
41	HJ	423	GLN
41	HJ	424	GLN
41	HJ	427	ASP
42	HK	96	LYS
42	HK	112	LYS
42	HK	216	ASN
42	HK	326	LYS

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Mol	Chain	Res	Type
41	HL	250	LEU
42	HM	1	MET
42	HM	2	ARG
42	HM	3	GLU
42	HM	4	CYS
42	HM	22	GLU
42	HM	35	GLN
42	HM	49	PHE
42	HM	56	THR
42	HM	60	LYS
42	HM	62	VAL
42	HM	68	VAL
42	HM	71	GLU
42	HM	75	ILE
42	HM	79	ARG
42	HM	82	THR
42	HM	84	ARG
42	HM	86	LEU
42	HM	87	PHE
42	HM	88	HIS
42	HM	93	ILE
42	HM	94	THR
42	HM	96	LYS
42	HM	105	ARG
42	HM	109	THR
42	HM	110	ILE
42	HM	115	ILE
42	HM	117	LEU
42	HM	124	LYS
42	HM	129	CYS
42	HM	132	LEU
42	HM	133	GLN
42	HM	136	LEU
42	HM	140	SER
42	HM	153	LEU
42	HM	163	LYS
42	HM	166	LYS
42	HM	167	LEU
42	HM	176	GLN
42	HM	177	VAL
42	HM	187	SER
42	HM	188	ILE

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Mol	Chain	Res	Type
42	HM	192	HIS
42	HM	193	THR
42	HM	195	LEU
42	HM	196	GLU
42	HM	198	SER
42	HM	200	CYS
42	HM	203	MET
42	HM	205	ASP
42	HM	214	ARG
42	HM	215	ARG
42	HM	218	ASP
42	HM	221	ARG
42	HM	223	THR
42	HM	225	THR
42	HM	230	LEU
42	HM	238	ILE
42	HM	241	SER
42	HM	243	ARG
42	HM	248	LEU
42	HM	249	ASN
42	HM	254	GLU
42	HM	255	PHE
42	HM	271	THR
42	HM	277	SER
42	HM	282	TYR
42	HM	284	GLU
42	HM	285	GLN
42	HM	288	VAL
42	HM	291	ILE
42	HM	297	GLU
42	HM	304	LYS
42	HM	308	ARG
42	HM	311	LYS
42	HM	312	TYR
42	HM	317	LEU
42	HM	318	LEU
42	HM	320	ARG
42	HM	326	LYS
42	HM	328	VAL
42	HM	334	THR
42	HM	335	ILE
42	HM	337	THR

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Mol	Chain	Res	Type
42	HM	338	LYS
42	HM	339	ARG
42	HM	340	THR
42	HM	341	ILE
42	HM	344	VAL
42	HM	347	CYS
42	HM	353	VAL
42	HM	363	VAL
42	HM	367	ASP
42	HM	368	LEU
42	HM	371	VAL
42	HM	375	VAL
42	HM	380	ASN
42	HM	386	GLU
42	HM	390	ARG
42	HM	396	ASP
42	HM	397	LEU
42	HM	401	LYS
42	HM	402	ARG
42	HM	413	MET
42	HM	425	MET
42	HM	430	LYS
42	HM	432	TYR
42	IC	2	ARG
42	IC	124	LYS
42	IC	216	ASN
42	IC	356	ASN
42	IC	370	LYS
42	IE	1	MET
42	IE	2	ARG
42	IE	6	SER
42	IE	7	VAL
42	IE	9	VAL
42	IE	16	ILE
42	IE	23	LEU
42	IE	27	GLU
42	IE	28	HIS
42	IE	30	ILE
42	IE	36	MET
42	IE	52	PHE
42	IE	54	SER
42	IE	62	VAL

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Mol	Chain	Res	Type
42	IE	68	VAL
42	IE	71	GLU
42	IE	73	THR
42	IE	77	GLU
42	IE	78	VAL
42	IE	79	ARG
42	IE	85	GLN
42	IE	90	GLU
42	IE	92	LEU
42	IE	96	LYS
42	IE	97	GLU
42	IE	98	ASP
42	IE	110	ILE
42	IE	112	LYS
42	IE	114	LEU
42	IE	116	ASP
42	IE	119	LEU
42	IE	120	ASP
42	IE	121	ARG
42	IE	123	ARG
42	IE	124	LYS
42	IE	136	LEU
42	IE	140	SER
42	IE	145	THR
42	IE	154	MET
42	IE	155	GLU
42	IE	156	ARG
42	IE	160	ASP
42	IE	163	LYS
42	IE	164	LYS
42	IE	165	SER
42	IE	170	SER
42	IE	177	VAL
42	IE	178	SER
42	IE	179	THR
42	IE	182	VAL
42	IE	186	ASN
42	IE	187	SER
42	IE	190	THR
42	IE	192	HIS
42	IE	193	THR
42	IE	195	LEU

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Mol	Chain	Res	Type
42	IE	196	GLU
42	IE	200	CYS
42	IE	204	VAL
42	IE	205	ASP
42	IE	209	ILE
42	IE	214	ARG
42	IE	219	ILE
42	IE	220	GLU
42	IE	221	ARG
42	IE	224	TYR
42	IE	225	THR
42	IE	237	SER
42	IE	238	ILE
42	IE	241	SER
42	IE	243	ARG
42	IE	251	ASP
42	IE	252	LEU
42	IE	256	GLN
42	IE	258	ASN
42	IE	260	VAL
42	IE	264	ARG
42	IE	275	VAL
42	IE	276	ILE
42	IE	277	SER
42	IE	279	GLU
42	IE	280	LYS
42	IE	284	GLU
42	IE	285	GLN
42	IE	286	LEU
42	IE	295	CYS
42	IE	296	PHE
42	IE	302	MET
42	IE	303	VAL
42	IE	306	ASP
42	IE	308	ARG
42	IE	311	LYS
42	IE	317	LEU
42	IE	318	LEU
42	IE	320	ARG
42	IE	323	VAL
42	IE	326	LYS
42	IE	329	ASN

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Mol	Chain	Res	Type
42	IE	335	ILE
42	IE	339	ARG
42	IE	340	THR
42	IE	342	GLN
42	IE	347	CYS
42	IE	352	LYS
42	IE	355	ILE
42	IE	358	GLN
42	IE	362	VAL
42	IE	363	VAL
42	IE	367	ASP
42	IE	368	LEU
42	IE	370	LYS
42	IE	371	VAL
42	IE	373	ARG
42	IE	380	ASN
42	IE	382	THR
42	IE	384	ILE
42	IE	390	ARG
42	IE	391	LEU
42	IE	392	ASP
42	IE	401	LYS
42	IE	414	GLU
42	IE	417	GLU
42	IE	420	GLU
42	IE	422	ARG
42	IE	423	GLU
42	IE	424	ASP
42	IE	430	LYS
42	IE	433	GLU
42	IE	434	GLU
42	IE	437	MET
42	IE	438	ASP
42	IE	440	VAL
41	IH	348	ASN
41	IJ	324	LYS
42	IK	370	LYS
41	IL	375	GLN
41	IN	139	LEU
41	IN	143	THR
41	IN	154	LYS
41	IN	155	ILE

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Mol	Chain	Res	Type
41	IN	156	ARG
41	IN	158	GLU
41	IN	161	ASP
41	IN	162	ARG
41	IN	163	ILE
41	IN	164	MET
41	IN	166	THR
41	IN	169	VAL
41	IN	170	VAL
41	IN	174	LYS
41	IN	176	SER
41	IN	177	ASP
41	IN	178	THR
41	IN	180	VAL
41	IN	181	GLU
41	IN	183	TYR
41	IN	190	HIS
41	IN	191	GLN
41	IN	192	LEU
41	IN	195	ASN
41	IN	196	THR
41	IN	198	GLU
41	IN	199	THR
41	IN	202	ILE
41	IN	203	ASP
41	IN	208	TYR
41	IN	212	PHE
41	IN	215	LEU
41	IN	218	THR
41	IN	221	THR
41	IN	222	TYR
41	IN	225	LEU
41	IN	228	LEU
41	IN	229	VAL
41	IN	234	SER
41	IN	237	THR
41	IN	241	ARG
41	IN	243	PRO
41	IN	252	LYS
41	IN	256	ASN
41	IN	258	VAL
41	IN	260	PHE

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Mol	Chain	Res	Type
41	IN	261	PRO
41	IN	262	ARG
41	IN	263	LEU
41	IN	264	HIS
41	IN	267	MET
41	IN	270	PHE
41	IN	274	THR
41	IN	278	SER
41	IN	279	GLN
41	IN	282	ARG
41	IN	284	LEU
41	IN	285	THR
41	IN	291	GLN
41	IN	292	GLN
41	IN	297	LYS
41	IN	299	MET
41	IN	304	ASP
41	IN	309	ARG
41	IN	310	TYR
41	IN	311	LEU
41	IN	320	ARG
41	IN	323	MET
41	IN	324	LYS
41	IN	325	GLU
41	IN	326	VAL
41	IN	328	GLU
41	IN	329	GLN
41	IN	330	MET
41	IN	331	LEU
41	IN	333	VAL
41	IN	334	GLN
41	IN	335	ASN
41	IN	336	LYS
41	IN	344	TRP
41	IN	350	LYS
41	IN	353	VAL
41	IN	356	ILE
41	IN	358	PRO
41	IN	359	ARG
41	IN	361	LEU
41	IN	362	LYS
41	IN	363	MET

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Mol	Chain	Res	Type
41	IN	368	ILE
41	IN	374	ILE
41	IN	377	LEU
41	IN	378	PHE
41	IN	379	LYS
41	IN	380	ARG
41	IN	382	SER
41	IN	384	GLN
41	IN	386	THR
41	IN	390	ARG
41	IN	391	ARG
41	IN	392	LYS
41	IN	395	LEU
41	IN	403	MET
41	IN	405	GLU
41	IN	409	THR
41	IN	410	GLU
41	IN	415	MET
41	IN	417	ASP
41	IN	418	LEU
41	IN	419	VAL
41	IN	427	ASP
42	JC	1	MET
41	JD	62	ARG
41	JD	65	LEU
41	JD	68	LEU
41	JD	74	ASP
41	JD	76	VAL
41	JD	77	ARG
41	JD	83	GLN
41	JD	88	ASP
41	JD	89	ASN
41	JD	350	LYS
42	JE	101	ASN
42	JE	256	GLN
42	JE	308	ARG
41	JF	247	ASN
42	JG	112	LYS
42	JG	229	ARG
41	JH	137	HIS
41	JH	204	ASN
41	JJ	204	ASN

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Mol	Chain	Res	Type
42	JK	2	ARG
42	JK	3	GLU
42	JK	5	ILE
42	JK	7	VAL
42	JK	9	VAL
42	JK	11	GLN
42	JK	20	CYS
42	JK	23	LEU
42	JK	26	LEU
42	JK	30	ILE
42	JK	33	ASP
42	JK	36	MET
42	JK	37	PRO
42	JK	39	ASP
42	JK	40	LYS
42	JK	41	THR
42	JK	42	ILE
42	JK	51	THR
42	JK	54	SER
42	JK	68	VAL
42	JK	74	VAL
42	JK	78	VAL
42	JK	79	ARG
42	JK	82	THR
42	JK	86	LEU
42	JK	88	HIS
42	JK	90	GLU
42	JK	91	GLN
42	JK	92	LEU
42	JK	96	LYS
42	JK	97	GLU
42	JK	101	ASN
42	JK	105	ARG
42	JK	109	THR
42	JK	112	LYS
42	JK	113	GLU
42	JK	115	ILE
42	JK	116	ASP
42	JK	119	LEU
42	JK	120	ASP
42	JK	123	ARG
42	JK	124	LYS

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Mol	Chain	Res	Type
42	JK	125	LEU
42	JK	127	ASP
42	JK	130	THR
42	JK	132	LEU
42	JK	137	ILE
42	JK	141	PHE
42	JK	153	LEU
42	JK	156	ARG
42	JK	160	ASP
42	JK	163	LYS
42	JK	164	LYS
42	JK	165	SER
42	JK	166	LYS
42	JK	167	LEU
42	JK	178	SER
42	JK	182	VAL
42	JK	183	GLU
42	JK	184	PRO
42	JK	187	SER
42	JK	189	LEU
42	JK	190	THR
42	JK	195	LEU
42	JK	196	GLU
42	JK	199	ASP
42	JK	200	CYS
42	JK	205	ASP
42	JK	211	ASP
42	JK	214	ARG
42	JK	217	LEU
42	JK	218	ASP
42	JK	220	GLU
42	JK	221	ARG
42	JK	223	THR
42	JK	226	ASN
42	JK	227	LEU
42	JK	230	LEU
42	JK	237	SER
42	JK	238	ILE
42	JK	241	SER
42	JK	242	LEU
42	JK	243	ARG
42	JK	248	LEU

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Mol	Chain	Res	Type
42	JK	250	VAL
42	JK	254	GLU
42	JK	256	GLN
42	JK	260	VAL
42	JK	264	ARG
42	JK	271	THR
42	JK	275	VAL
42	JK	276	ILE
42	JK	277	SER
42	JK	279	GLU
42	JK	280	LYS
42	JK	287	SER
42	JK	291	ILE
42	JK	295	CYS
42	JK	297	GLU
42	JK	300	ASN
42	JK	302	MET
42	JK	303	VAL
42	JK	304	LYS
42	JK	305	CYS
42	JK	320	ARG
42	JK	326	LYS
42	JK	335	ILE
42	JK	336	LYS
42	JK	338	LYS
42	JK	339	ARG
42	JK	343	PHE
42	JK	345	ASP
42	JK	358	GLN
42	JK	362	VAL
42	JK	371	VAL
42	JK	373	ARG
42	JK	375	VAL
42	JK	377	MET
42	JK	378	LEU
42	JK	381	THR
42	JK	382	THR
42	JK	384	ILE
42	JK	390	ARG
42	JK	398	MET
42	JK	401	LYS
42	JK	409	VAL

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Mol	Chain	Res	Type
42	JK	411	GLU
42	JK	413	MET
42	JK	422	ARG
42	JK	424	ASP
42	JK	429	GLU
42	JK	430	LYS
42	JK	434	GLU
42	JK	435	VAL
42	JK	437	MET
42	JK	438	ASP
42	JK	440	VAL
41	JL	4	ILE
41	JL	7	LEU
41	JL	12	CYS
41	JL	19	LYS
41	JL	23	VAL
41	JL	26	ASP
41	JL	31	ASP
41	JL	32	PRO
41	JL	35	THR
41	JL	39	ASP
41	JL	46	ARG
41	JL	47	ILE
41	JL	53	GLU
41	JL	64	VAL
41	JL	72	THR
41	JL	73	MET
41	JL	74	ASP
41	JL	78	SER
41	JL	84	ILE
41	JL	86	ARG
41	JL	88	ASP
41	JL	91	VAL
41	JL	94	GLN
41	JL	103	LYS
41	JL	111	GLU
41	JL	114	ASP
41	JL	118	ASP
41	JL	120	VAL
41	JL	121	ARG
41	JL	122	LYS
41	JL	127	CYS

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Mol	Chain	Res	Type
41	JL	128	ASP
41	JL	130	LEU
41	JL	135	LEU
41	JL	139	LEU
41	JL	147	MET
41	JL	154	LYS
41	JL	156	ARG
41	JL	157	GLU
41	JL	159	TYR
41	JL	162	ARG
41	JL	163	ILE
41	JL	174	LYS
41	JL	176	SER
41	JL	180	VAL
41	JL	188	SER
41	JL	191	GLN
41	JL	195	ASN
41	JL	197	ASP
41	JL	199	THR
41	JL	205	GLU
41	JL	214	THR
41	JL	216	LYS
41	JL	217	LEU
41	JL	219	THR
41	JL	222	TYR
41	JL	224	ASP
41	JL	225	LEU
41	JL	228	LEU
41	JL	238	THR
41	JL	245	GLN
41	JL	251	ARG
41	JL	252	LYS
41	JL	253	LEU
41	JL	255	VAL
41	JL	257	MET
41	JL	258	VAL
41	JL	273	LEU
41	JL	274	THR
41	JL	275	SER
41	JL	278	SER
41	JL	279	GLN
41	JL	281	TYR

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Mol	Chain	Res	Type
41	JL	282	ARG
41	JL	291	GLN
41	JL	293	MET
41	JL	297	LYS
41	JL	306	ARG
41	JL	312	THR
41	JL	318	ARG
41	JL	321	MET
41	JL	322	SER
41	JL	326	VAL
41	JL	327	ASP
41	JL	328	GLU
41	JL	329	GLN
41	JL	334	GLN
41	JL	336	LYS
41	JL	345	ILE
41	JL	347	ASN
41	JL	348	ASN
41	JL	353	VAL
41	JL	355	ASP
41	JL	362	LYS
41	JL	364	SER
41	JL	376	GLU
41	JL	379	LYS
41	JL	380	ARG
41	JL	391	ARG
41	JL	392	LYS
41	JL	395	LEU
41	JL	409	THR
41	JL	410	GLU
41	JL	413	SER
41	JL	415	MET
41	JL	423	GLN
41	JL	425	TYR
41	JL	426	GLN
42	JM	1	MET
42	JM	2	ARG
42	JM	5	ILE
42	JM	7	VAL
42	JM	9	VAL
42	JM	20	CYS
42	JM	23	LEU

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Mol	Chain	Res	Type
42	JM	26	LEU
42	JM	47	ASP
42	JM	54	SER
42	JM	55	GLU
42	JM	68	VAL
42	JM	71	GLU
42	JM	73	THR
42	JM	74	VAL
42	JM	75	ILE
42	JM	77	GLU
42	JM	78	VAL
42	JM	80	THR
42	JM	89	PRO
42	JM	90	GLU
42	JM	91	GLN
42	JM	93	ILE
42	JM	94	THR
42	JM	96	LYS
42	JM	101	ASN
42	JM	109	THR
42	JM	110	ILE
42	JM	112	LYS
42	JM	113	GLU
42	JM	114	LEU
42	JM	116	ASP
42	JM	117	LEU
42	JM	119	LEU
42	JM	120	ASP
42	JM	124	LYS
42	JM	125	LEU
42	JM	128	GLN
42	JM	129	CYS
42	JM	132	LEU
42	JM	133	GLN
42	JM	136	LEU
42	JM	137	ILE
42	JM	147	SER
42	JM	150	THR
42	JM	154	MET
42	JM	156	ARG
42	JM	158	SER
42	JM	163	LYS

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Mol	Chain	Res	Type
42	JM	164	LYS
42	JM	165	SER
42	JM	167	LEU
42	JM	170	SER
42	JM	176	GLN
42	JM	181	VAL
42	JM	182	VAL
42	JM	187	SER
42	JM	189	LEU
42	JM	190	THR
42	JM	195	LEU
42	JM	196	GLU
42	JM	200	CYS
42	JM	204	VAL
42	JM	207	GLU
42	JM	209	ILE
42	JM	211	ASP
42	JM	214	ARG
42	JM	215	ARG
42	JM	218	ASP
42	JM	220	GLU
42	JM	221	ARG
42	JM	224	TYR
42	JM	226	ASN
42	JM	227	LEU
42	JM	242	LEU
42	JM	243	ARG
42	JM	248	LEU
42	JM	256	GLN
42	JM	272	TYR
42	JM	276	ILE
42	JM	277	SER
42	JM	279	GLU
42	JM	280	LYS
42	JM	285	GLN
42	JM	286	LEU
42	JM	290	GLU
42	JM	291	ILE
42	JM	295	CYS
42	JM	302	MET
42	JM	303	VAL
42	JM	304	LYS

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Mol	Chain	Res	Type
42	JM	305	CYS
42	JM	320	ARG
42	JM	322	ASP
42	JM	323	VAL
42	JM	324	VAL
42	JM	327	ASP
42	JM	334	THR
42	JM	336	LYS
42	JM	337	THR
42	JM	338	LYS
42	JM	339	ARG
42	JM	344	VAL
42	JM	352	LYS
42	JM	362	VAL
42	JM	363	VAL
42	JM	367	ASP
42	JM	368	LEU
42	JM	370	LYS
42	JM	373	ARG
42	JM	377	MET
42	JM	378	LEU
42	JM	380	ASN
42	JM	382	THR
42	JM	386	GLU
42	JM	390	ARG
42	JM	398	MET
42	JM	401	LYS
42	JM	417	GLU
42	JM	419	SER
42	JM	422	ARG
42	JM	430	LYS
42	JM	439	SER
42	KC	2	ARG
41	KD	276	ARG
41	KD	306	ARG
42	KG	2	ARG
41	KH	195	ASN
42	KI	308	ARG
42	KK	300	ASN
42	KM	2	ARG
42	KM	3	GLU
42	KM	4	CYS

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Mol	Chain	Res	Type
42	KM	6	SER
42	KM	27	GLU
42	KM	30	ILE
42	KM	31	GLN
42	KM	46	ASP
42	KM	51	THR
42	KM	54	SER
42	KM	66	VAL
42	KM	68	VAL
42	KM	73	THR
42	KM	75	ILE
42	KM	78	VAL
42	KM	82	THR
42	KM	84	ARG
42	KM	94	THR
42	KM	96	LYS
42	KM	97	GLU
42	KM	105	ARG
42	KM	112	LYS
42	KM	113	GLU
42	KM	123	ARG
42	KM	124	LYS
42	KM	133	GLN
42	KM	136	LEU
42	KM	141	PHE
42	KM	155	GLU
42	KM	159	VAL
42	KM	163	LYS
42	KM	164	LYS
42	KM	166	LYS
42	KM	170	SER
42	KM	179	THR
42	KM	181	VAL
42	KM	187	SER
42	KM	190	THR
42	KM	195	LEU
42	KM	199	ASP
42	KM	200	CYS
42	KM	202	PHE
42	KM	204	VAL
42	KM	205	ASP
42	KM	209	ILE

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Mol	Chain	Res	Type
42	KM	214	ARG
42	KM	215	ARG
42	KM	217	LEU
42	KM	218	ASP
42	KM	221	ARG
42	KM	224	TYR
42	KM	230	LEU
42	KM	237	SER
42	KM	242	LEU
42	KM	244	PHE
42	KM	248	LEU
42	KM	249	ASN
42	KM	251	ASP
42	KM	253	THR
42	KM	255	PHE
42	KM	262	TYR
42	KM	269	LEU
42	KM	277	SER
42	KM	280	LYS
42	KM	302	MET
42	KM	303	VAL
42	KM	305	CYS
42	KM	308	ARG
42	KM	320	ARG
42	KM	322	ASP
42	KM	323	VAL
42	KM	324	VAL
42	KM	326	LYS
42	KM	334	THR
42	KM	337	THR
42	KM	338	LYS
42	KM	342	GLN
42	KM	345	ASP
42	KM	347	CYS
42	KM	351	PHE
42	KM	361	THR
42	KM	362	VAL
42	KM	363	VAL
42	KM	367	ASP
42	KM	370	LYS
42	KM	372	GLN
42	KM	375	VAL

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Mol	Chain	Res	Type
42	KM	376	CYS
42	KM	390	ARG
42	KM	398	MET
42	KM	401	LYS
42	KM	402	ARG
42	KM	413	MET
42	KM	414	GLU
42	KM	422	ARG
42	KM	430	LYS
42	KM	432	TYR
41	KN	2	ARG
41	KN	131	GLN
41	KN	306	ARG
42	LC	2	ARG
41	LD	1	MET
41	LD	2	ARG
41	LD	3	GLU
41	LD	4	ILE
41	LD	22	GLU
41	LD	31	ASP
41	LD	39	ASP
41	LD	44	LEU
41	LD	46	ARG
41	LD	48	ASN
41	LD	55	THR
41	LD	60	VAL
41	LD	64	VAL
41	LD	72	THR
41	LD	73	MET
41	LD	74	ASP
41	LD	75	SER
41	LD	77	ARG
41	LD	88	ASP
41	LD	94	GLN
41	LD	101	TRP
41	LD	103	LYS
41	LD	107	THR
41	LD	114	ASP
41	LD	122	LYS
41	LD	128	ASP
41	LD	137	HIS
41	LD	138	SER

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Mol	Chain	Res	Type
41	LD	143	THR
41	LD	154	LYS
41	LD	161	ASP
41	LD	162	ARG
41	LD	165	ASN
41	LD	166	THR
41	LD	168	SER
41	LD	174	LYS
41	LD	175	VAL
41	LD	176	SER
41	LD	178	THR
41	LD	197	ASP
41	LD	198	GLU
41	LD	202	ILE
41	LD	204	ASN
41	LD	213	ARG
41	LD	214	THR
41	LD	216	LYS
41	LD	217	LEU
41	LD	222	TYR
41	LD	228	LEU
41	LD	234	SER
41	LD	238	THR
41	LD	240	LEU
41	LD	246	LEU
41	LD	251	ARG
41	LD	274	THR
41	LD	279	GLN
41	LD	282	ARG
41	LD	289	LEU
41	LD	293	MET
41	LD	299	MET
41	LD	306	ARG
41	LD	309	ARG
41	LD	311	LEU
41	LD	312	THR
41	LD	313	VAL
41	LD	316	VAL
41	LD	318	ARG
41	LD	322	SER
41	LD	324	LYS
41	LD	328	GLU

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Mol	Chain	Res	Type
41	LD	330	MET
41	LD	334	GLN
41	LD	337	ASN
41	LD	343	GLU
41	LD	349	VAL
41	LD	350	LYS
41	LD	351	THR
41	LD	359	ARG
41	LD	362	LYS
41	LD	363	MET
41	LD	364	SER
41	LD	368	ILE
41	LD	374	ILE
41	LD	379	LYS
41	LD	380	ARG
41	LD	383	GLU
41	LD	401	GLU
41	LD	407	GLU
41	LD	415	MET
41	LD	424	GLN
41	LD	427	ASP
42	LE	40	LYS
42	LE	326	LYS
41	LF	298	ASN
41	LF	306	ARG
42	LI	339	ARG
41	LJ	306	ARG
41	LJ	336	LYS
41	LN	297	LYS
42	MC	326	LYS
42	MC	356	ASN
41	MD	1	MET
41	MD	2	ARG
41	MD	3	GLU
41	MD	4	ILE
41	MD	7	LEU
41	MD	8	GLN
41	MD	19	LYS
41	MD	24	ILE
41	MD	25	SER
41	MD	31	ASP
41	MD	35	THR

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Mol	Chain	Res	Type
41	MD	39	ASP
41	MD	41	ASP
41	MD	42	LEU
41	MD	46	ARG
41	MD	47	ILE
41	MD	55	THR
41	MD	66	VAL
41	MD	68	LEU
41	MD	69	GLU
41	MD	70	PRO
41	MD	72	THR
41	MD	73	MET
41	MD	74	ASP
41	MD	75	SER
41	MD	77	ARG
41	MD	83	GLN
41	MD	88	ASP
41	MD	95	SER
41	MD	107	THR
41	MD	108	GLU
41	MD	114	ASP
41	MD	129	CYS
41	MD	131	GLN
41	MD	135	LEU
41	MD	137	HIS
41	MD	147	MET
41	MD	151	LEU
41	MD	152	ILE
41	MD	162	ARG
41	MD	163	ILE
41	MD	168	SER
41	MD	172	SER
41	MD	174	LYS
41	MD	181	GLU
41	MD	186	THR
41	MD	189	VAL
41	MD	196	THR
41	MD	197	ASP
41	MD	199	THR
41	MD	202	ILE
41	MD	203	ASP
41	MD	209	ASP

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Mol	Chain	Res	Type
41	MD	210	ILE
41	MD	212	PHE
41	MD	215	LEU
41	MD	216	LYS
41	MD	221	THR
41	MD	222	TYR
41	MD	229	VAL
41	MD	234	SER
41	MD	236	VAL
41	MD	237	THR
41	MD	246	LEU
41	MD	250	LEU
41	MD	257	MET
41	MD	258	VAL
41	MD	262	ARG
41	MD	263	LEU
41	MD	264	HIS
41	MD	267	MET
41	MD	270	PHE
41	MD	273	LEU
41	MD	274	THR
41	MD	278	SER
41	MD	282	ARG
41	MD	288	GLU
41	MD	289	LEU
41	MD	293	MET
41	MD	297	LYS
41	MD	299	MET
41	MD	303	CYS
41	MD	304	ASP
41	MD	306	ARG
41	MD	312	THR
41	MD	316	VAL
41	MD	320	ARG
41	MD	323	MET
41	MD	324	LYS
41	MD	325	GLU
41	MD	326	VAL
41	MD	327	ASP
41	MD	328	GLU
41	MD	329	GLN
41	MD	331	LEU

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Mol	Chain	Res	Type
41	MD	333	VAL
41	MD	336	LYS
41	MD	337	ASN
41	MD	343	GLU
41	MD	347	ASN
41	MD	354	CYS
41	MD	356	ILE
41	MD	359	ARG
41	MD	362	LYS
41	MD	363	MET
41	MD	372	THR
41	MD	374	ILE
41	MD	377	LEU
41	MD	379	LYS
41	MD	383	GLU
41	MD	391	ARG
41	MD	392	LYS
41	MD	395	LEU
41	MD	396	HIS
41	MD	403	MET
41	MD	406	MET
41	MD	407	GLU
41	MD	410	GLU
41	MD	412	GLU
41	MD	413	SER
42	ME	422	ARG
41	MF	1	MET
41	MF	2	ARG
41	MF	3	GLU
41	MF	8	GLN
41	MF	11	GLN
41	MF	12	CYS
41	MF	19	LYS
41	MF	26	ASP
41	MF	30	ILE
41	MF	31	ASP
41	MF	32	PRO
41	MF	39	ASP
41	MF	40	SER
41	MF	41	ASP
41	MF	42	LEU
41	MF	50	TYR

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Mol	Chain	Res	Type
41	MF	58	LYS
41	MF	60	VAL
41	MF	62	ARG
41	MF	64	VAL
41	MF	65	LEU
41	MF	66	VAL
41	MF	72	THR
41	MF	74	ASP
41	MF	75	SER
41	MF	77	ARG
41	MF	83	GLN
41	MF	84	ILE
41	MF	88	ASP
41	MF	91	VAL
41	MF	94	GLN
41	MF	103	LYS
41	MF	108	GLU
41	MF	113	VAL
41	MF	114	ASP
41	MF	115	SER
41	MF	117	LEU
41	MF	118	ASP
41	MF	125	GLU
41	MF	128	ASP
41	MF	131	GLN
41	MF	138	SER
41	MF	139	LEU
41	MF	143	THR
41	MF	145	SER
41	MF	150	LEU
41	MF	152	ILE
41	MF	156	ARG
41	MF	157	GLU
41	MF	162	ARG
41	MF	164	MET
41	MF	165	ASN
41	MF	166	THR
41	MF	170	VAL
41	MF	172	SER
41	MF	174	LYS
41	MF	180	VAL
41	MF	181	GLU

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Mol	Chain	Res	Type
41	MF	190	HIS
41	MF	191	GLN
41	MF	192	LEU
41	MF	194	GLU
41	MF	195	ASN
41	MF	197	ASP
41	MF	199	THR
41	MF	202	ILE
41	MF	203	ASP
41	MF	207	LEU
41	MF	211	CYS
41	MF	213	ARG
41	MF	215	LEU
41	MF	216	LYS
41	MF	217	LEU
41	MF	219	THR
41	MF	221	THR
41	MF	222	TYR
41	MF	224	ASP
41	MF	229	VAL
41	MF	232	THR
41	MF	233	MET
41	MF	236	VAL
41	MF	240	LEU
41	MF	246	LEU
41	MF	253	LEU
41	MF	262	ARG
41	MF	263	LEU
41	MF	264	HIS
41	MF	270	PHE
41	MF	275	SER
41	MF	278	SER
41	MF	284	LEU
41	MF	287	PRO
41	MF	289	LEU
41	MF	297	LYS
41	MF	299	MET
41	MF	303	CYS
41	MF	304	ASP
41	MF	306	ARG
41	MF	309	ARG
41	MF	312	THR

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Mol	Chain	Res	Type
41	MF	318	ARG
41	MF	320	ARG
41	MF	321	MET
41	MF	324	LYS
41	MF	325	GLU
41	MF	330	MET
41	MF	334	GLN
41	MF	336	LYS
41	MF	338	SER
41	MF	343	GLU
41	MF	346	PRO
41	MF	350	LYS
41	MF	351	THR
41	MF	354	CYS
41	MF	361	LEU
41	MF	362	LYS
41	MF	363	MET
41	MF	364	SER
41	MF	368	ILE
41	MF	374	ILE
41	MF	375	GLN
41	MF	379	LYS
41	MF	380	ARG
41	MF	381	ILE
41	MF	384	GLN
41	MF	388	MET
41	MF	390	ARG
41	MF	391	ARG
41	MF	392	LYS
41	MF	395	LEU
41	MF	403	MET
41	MF	405	GLU
41	MF	406	MET
41	MF	407	GLU
41	MF	412	GLU
41	MF	413	SER
41	MF	414	ASN
41	MF	415	MET
41	MF	418	LEU
41	MF	419	VAL
41	MF	420	SER
41	MF	423	GLN

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Mol	Chain	Res	Type
41	MF	424	GLN
42	MG	1	MET
42	MG	4	CYS
42	MG	30	ILE
42	MG	31	GLN
42	MG	35	GLN
42	MG	50	ASN
42	MG	60	LYS
42	MG	62	VAL
42	MG	70	LEU
42	MG	75	ILE
42	MG	76	ASP
42	MG	105	ARG
42	MG	109	THR
42	MG	112	LYS
42	MG	113	GLU
42	MG	114	LEU
42	MG	116	ASP
42	MG	119	LEU
42	MG	120	ASP
42	MG	121	ARG
42	MG	123	ARG
42	MG	124	LYS
42	MG	130	THR
42	MG	136	LEU
42	MG	140	SER
42	MG	149	PHE
42	MG	156	ARG
42	MG	157	LEU
42	MG	158	SER
42	MG	163	LYS
42	MG	164	LYS
42	MG	167	LEU
42	MG	170	SER
42	MG	178	SER
42	MG	188	ILE
42	MG	189	LEU
42	MG	193	THR
42	MG	195	LEU
42	MG	199	ASP
42	MG	200	CYS
42	MG	209	ILE

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Mol	Chain	Res	Type
42	MG	211	ASP
42	MG	220	GLU
42	MG	223	THR
42	MG	224	TYR
42	MG	226	ASN
42	MG	228	ASN
42	MG	237	SER
42	MG	238	ILE
42	MG	241	SER
42	MG	242	LEU
42	MG	248	LEU
42	MG	250	VAL
42	MG	252	LEU
42	MG	254	GLU
42	MG	257	THR
42	MG	258	ASN
42	MG	259	LEU
42	MG	271	THR
42	MG	272	TYR
42	MG	275	VAL
42	MG	276	ILE
42	MG	280	LYS
42	MG	282	TYR
42	MG	283	HIS
42	MG	284	GLU
42	MG	285	GLN
42	MG	287	SER
42	MG	295	CYS
42	MG	296	PHE
42	MG	297	GLU
42	MG	302	MET
42	MG	311	LYS
42	MG	315	CYS
42	MG	318	LEU
42	MG	323	VAL
42	MG	326	LYS
42	MG	328	VAL
42	MG	334	THR
42	MG	336	LYS
42	MG	338	LYS
42	MG	339	ARG
42	MG	340	THR

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Mol	Chain	Res	Type
42	MG	347	CYS
42	MG	353	VAL
42	MG	362	VAL
42	MG	363	VAL
42	MG	367	ASP
42	MG	368	LEU
42	MG	370	LYS
42	MG	371	VAL
42	MG	373	ARG
42	MG	376	CYS
42	MG	381	THR
42	MG	382	THR
42	MG	384	ILE
42	MG	396	ASP
42	MG	420	GLU
42	MG	428	LEU
42	MG	430	LYS
42	MG	433	GLU
42	MI	2	ARG
41	MJ	191	GLN
42	MK	2	ARG
42	MK	338	LYS
42	MK	373	ARG
41	ML	347	ASN
41	MN	1	MET
41	MN	7	LEU
41	MN	16	ILE
41	MN	19	LYS
41	MN	22	GLU
41	MN	30	ILE
41	MN	31	ASP
41	MN	35	THR
41	MN	40	SER
41	MN	42	LEU
41	MN	47	ILE
41	MN	48	ASN
41	MN	50	TYR
41	MN	52	ASN
41	MN	55	THR
41	MN	58	LYS
41	MN	65	LEU
41	MN	66	VAL

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Mol	Chain	Res	Type
41	MN	69	GLU
41	MN	73	MET
41	MN	78	SER
41	MN	84	ILE
41	MN	86	ARG
41	MN	88	ASP
41	MN	91	VAL
41	MN	95	SER
41	MN	107	THR
41	MN	114	ASP
41	MN	117	LEU
41	MN	121	ARG
41	MN	122	LYS
41	MN	125	GLU
41	MN	128	ASP
41	MN	138	SER
41	MN	147	MET
41	MN	149	THR
41	MN	151	LEU
41	MN	159	TYR
41	MN	161	ASP
41	MN	162	ARG
41	MN	163	ILE
41	MN	164	MET
41	MN	166	THR
41	MN	170	VAL
41	MN	174	LYS
41	MN	175	VAL
41	MN	177	ASP
41	MN	187	LEU
41	MN	191	GLN
41	MN	197	ASP
41	MN	199	THR
41	MN	202	ILE
41	MN	215	LEU
41	MN	216	LYS
41	MN	217	LEU
41	MN	222	TYR
41	MN	224	ASP
41	MN	225	LEU
41	MN	229	VAL
41	MN	234	SER

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Mol	Chain	Res	Type
41	MN	236	VAL
41	MN	238	THR
41	MN	241	ARG
41	MN	245	GLN
41	MN	246	LEU
41	MN	250	LEU
41	MN	251	ARG
41	MN	252	LYS
41	MN	255	VAL
41	MN	258	VAL
41	MN	264	HIS
41	MN	267	MET
41	MN	270	PHE
41	MN	274	THR
41	MN	275	SER
41	MN	276	ARG
41	MN	280	GLN
41	MN	282	ARG
41	MN	285	THR
41	MN	286	VAL
41	MN	288	GLU
41	MN	290	THR
41	MN	292	GLN
41	MN	293	MET
41	MN	295	ASP
41	MN	297	LYS
41	MN	299	MET
41	MN	303	CYS
41	MN	306	ARG
41	MN	309	ARG
41	MN	311	LEU
41	MN	312	THR
41	MN	313	VAL
41	MN	320	ARG
41	MN	321	MET
41	MN	323	MET
41	MN	324	LYS
41	MN	328	GLU
41	MN	330	MET
41	MN	332	ASN
41	MN	336	LYS
41	MN	339	SER

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Mol	Chain	Res	Type
41	MN	342	VAL
41	MN	344	TRP
41	MN	347	ASN
41	MN	350	LYS
41	MN	351	THR
41	MN	353	VAL
41	MN	354	CYS
41	MN	356	ILE
41	MN	359	ARG
41	MN	361	LEU
41	MN	362	LYS
41	MN	363	MET
41	MN	367	PHE
41	MN	368	ILE
41	MN	374	ILE
41	MN	375	GLN
41	MN	377	LEU
41	MN	379	LYS
41	MN	380	ARG
41	MN	390	ARG
41	MN	392	LYS
41	MN	395	LEU
41	MN	396	HIS
41	MN	401	GLU
41	MN	403	MET
41	MN	404	ASP
41	MN	406	MET
41	MN	407	GLU
41	MN	412	GLU
41	MN	413	SER
41	MN	423	GLN
41	MN	424	GLN
42	NA	3	GLU
42	NA	4	CYS
42	NA	7	VAL
42	NA	9	VAL
42	NA	11	GLN
42	NA	22	GLU
42	NA	23	LEU
42	NA	24	TYR
42	NA	25	CYS
42	NA	26	LEU

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Mol	Chain	Res	Type
42	NA	33	ASP
42	NA	46	ASP
42	NA	47	ASP
42	NA	60	LYS
42	NA	66	VAL
42	NA	68	VAL
42	NA	70	LEU
42	NA	71	GLU
42	NA	73	THR
42	NA	74	VAL
42	NA	75	ILE
42	NA	79	ARG
42	NA	82	THR
42	NA	84	ARG
42	NA	91	GLN
42	NA	92	LEU
42	NA	96	LYS
42	NA	97	GLU
42	NA	102	ASN
42	NA	109	THR
42	NA	110	ILE
42	NA	112	LYS
42	NA	113	GLU
42	NA	114	LEU
42	NA	116	ASP
42	NA	117	LEU
42	NA	121	ARG
42	NA	122	ILE
42	NA	124	LYS
42	NA	129	CYS
42	NA	132	LEU
42	NA	139	HIS
42	NA	151	SER
42	NA	152	LEU
42	NA	153	LEU
42	NA	154	MET
42	NA	155	GLU
42	NA	157	LEU
42	NA	158	SER
42	NA	159	VAL
42	NA	163	LYS
42	NA	164	LYS

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Mol	Chain	Res	Type
42	NA	165	SER
42	NA	167	LEU
42	NA	176	GLN
42	NA	188	ILE
42	NA	189	LEU
42	NA	194	THR
42	NA	195	LEU
42	NA	196	GLU
42	NA	200	CYS
42	NA	203	MET
42	NA	204	VAL
42	NA	214	ARG
42	NA	215	ARG
42	NA	217	LEU
42	NA	218	ASP
42	NA	221	ARG
42	NA	224	TYR
42	NA	229	ARG
42	NA	230	LEU
42	NA	231	ILE
42	NA	236	SER
42	NA	241	SER
42	NA	242	LEU
42	NA	243	ARG
42	NA	249	ASN
42	NA	251	ASP
42	NA	252	LEU
42	NA	254	GLU
42	NA	256	GLN
42	NA	260	VAL
42	NA	264	ARG
42	NA	269	LEU
42	NA	275	VAL
42	NA	276	ILE
42	NA	277	SER
42	NA	279	GLU
42	NA	280	LYS
42	NA	283	HIS
42	NA	287	SER
42	NA	288	VAL
42	NA	292	THR
42	NA	295	CYS

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Mol	Chain	Res	Type
42	NA	304	LYS
42	NA	308	ARG
42	NA	311	LYS
42	NA	312	TYR
42	NA	317	LEU
42	NA	322	ASP
42	NA	323	VAL
42	NA	326	LYS
42	NA	328	VAL
42	NA	332	ILE
42	NA	339	ARG
42	NA	341	ILE
42	NA	342	GLN
42	NA	358	GLN
42	NA	361	THR
42	NA	362	VAL
42	NA	367	ASP
42	NA	368	LEU
42	NA	370	LYS
42	NA	371	VAL
42	NA	372	GLN
42	NA	373	ARG
42	NA	376	CYS
42	NA	379	SER
42	NA	382	THR
42	NA	384	ILE
42	NA	386	GLU
42	NA	390	ARG
42	NA	391	LEU
42	NA	394	LYS
42	NA	397	LEU
42	NA	398	MET
42	NA	401	LYS
42	NA	402	ARG
42	NA	405	VAL
42	NA	413	MET
42	NA	414	GLU
42	NA	415	GLU
42	NA	419	SER
42	NA	420	GLU
42	NA	422	ARG
42	NA	425	MET

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Mol	Chain	Res	Type
42	NA	430	LYS
42	NA	434	GLU
42	NA	437	MET
41	NB	1	MET
41	NB	2	ARG
41	NB	7	LEU
41	NB	12	CYS
41	NB	16	ILE
41	NB	19	LYS
41	NB	24	ILE
41	NB	30	ILE
41	NB	35	THR
41	NB	39	ASP
41	NB	41	ASP
41	NB	42	LEU
41	NB	43	GLN
41	NB	53	GLU
41	NB	58	LYS
41	NB	64	VAL
41	NB	66	VAL
41	NB	69	GLU
41	NB	74	ASP
41	NB	77	ARG
41	NB	86	ARG
41	NB	91	VAL
41	NB	101	TRP
41	NB	103	LYS
41	NB	107	THR
41	NB	108	GLU
41	NB	114	ASP
41	NB	116	VAL
41	NB	121	ARG
41	NB	130	LEU
41	NB	136	THR
41	NB	139	LEU
41	NB	143	THR
41	NB	152	ILE
41	NB	154	LYS
41	NB	155	ILE
41	NB	156	ARG
41	NB	157	GLU
41	NB	158	GLU

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Mol	Chain	Res	Type
41	NB	159	TYR
41	NB	162	ARG
41	NB	163	ILE
41	NB	168	SER
41	NB	170	VAL
41	NB	174	LYS
41	NB	175	VAL
41	NB	178	THR
41	NB	179	VAL
41	NB	187	LEU
41	NB	192	LEU
41	NB	194	GLU
41	NB	198	GLU
41	NB	199	THR
41	NB	201	CYS
41	NB	202	ILE
41	NB	204	ASN
41	NB	205	GLU
41	NB	213	ARG
41	NB	216	LYS
41	NB	218	THR
41	NB	219	THR
41	NB	222	TYR
41	NB	224	ASP
41	NB	225	LEU
41	NB	232	THR
41	NB	249	ASP
41	NB	258	VAL
41	NB	262	ARG
41	NB	270	PHE
41	NB	279	GLN
41	NB	280	GLN
41	NB	292	GLN
41	NB	295	ASP
41	NB	300	MET
41	NB	306	ARG
41	NB	309	ARG
41	NB	311	LEU
41	NB	312	THR
41	NB	318	ARG
41	NB	320	ARG
41	NB	321	MET

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Mol	Chain	Res	Type
41	NB	322	SER
41	NB	324	LYS
41	NB	332	ASN
41	NB	334	GLN
41	NB	337	ASN
41	NB	338	SER
41	NB	348	ASN
41	NB	349	VAL
41	NB	354	CYS
41	NB	356	ILE
41	NB	361	LEU
41	NB	362	LYS
41	NB	374	ILE
41	NB	375	GLN
41	NB	379	LYS
41	NB	380	ARG
41	NB	389	PHE
41	NB	390	ARG
41	NB	391	ARG
41	NB	392	LYS
41	NB	395	LEU
41	NB	401	GLU
41	NB	403	MET
41	NB	405	GLU
41	NB	406	MET
41	NB	407	GLU
41	NB	415	MET
41	NB	416	ASN
41	NB	424	GLN
42	NC	1	MET
42	NC	2	ARG
42	NC	4	CYS
42	NC	6	SER
42	NC	7	VAL
42	NC	9	VAL
42	NC	26	LEU
42	NC	30	ILE
42	NC	31	GLN
42	NC	36	MET
42	NC	50	ASN
42	NC	52	PHE
42	NC	60	LYS

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Mol	Chain	Res	Type
42	NC	62	VAL
42	NC	66	VAL
42	NC	68	VAL
42	NC	71	GLU
42	NC	75	ILE
42	NC	76	ASP
42	NC	79	ARG
42	NC	82	THR
42	NC	84	ARG
42	NC	88	HIS
42	NC	93	ILE
42	NC	94	THR
42	NC	96	LYS
42	NC	97	GLU
42	NC	105	ARG
42	NC	109	THR
42	NC	110	ILE
42	NC	112	LYS
42	NC	115	ILE
42	NC	117	LEU
42	NC	119	LEU
42	NC	121	ARG
42	NC	123	ARG
42	NC	129	CYS
42	NC	130	THR
42	NC	136	LEU
42	NC	145	THR
42	NC	152	LEU
42	NC	153	LEU
42	NC	160	ASP
42	NC	163	LYS
42	NC	164	LYS
42	NC	166	LYS
42	NC	178	SER
42	NC	186	ASN
42	NC	192	HIS
42	NC	196	GLU
42	NC	199	ASP
42	NC	200	CYS
42	NC	203	MET
42	NC	207	GLU
42	NC	217	LEU

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Mol	Chain	Res	Type
42	NC	221	ARG
42	NC	224	TYR
42	NC	227	LEU
42	NC	229	ARG
42	NC	230	LEU
42	NC	234	ILE
42	NC	237	SER
42	NC	241	SER
42	NC	243	ARG
42	NC	251	ASP
42	NC	252	LEU
42	NC	254	GLU
42	NC	256	GLN
42	NC	257	THR
42	NC	272	TYR
42	NC	277	SER
42	NC	279	GLU
42	NC	280	LYS
42	NC	293	ASN
42	NC	302	MET
42	NC	303	VAL
42	NC	304	LYS
42	NC	306	ASP
42	NC	320	ARG
42	NC	324	VAL
42	NC	326	LYS
42	NC	338	LYS
42	NC	345	ASP
42	NC	347	CYS
42	NC	351	PHE
42	NC	352	LYS
42	NC	358	GLN
42	NC	362	VAL
42	NC	363	VAL
42	NC	368	LEU
42	NC	370	LYS
42	NC	371	VAL
42	NC	373	ARG
42	NC	375	VAL
42	NC	377	MET
42	NC	378	LEU
42	NC	380	ASN

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Mol	Chain	Res	Type
42	NC	386	GLU
42	NC	390	ARG
42	NC	391	LEU
42	NC	396	ASP
42	NC	397	LEU
42	NC	401	LYS
42	NC	409	VAL
42	NC	415	GLU
42	NC	423	GLU
42	NC	424	ASP
42	NC	425	MET
42	NC	430	LYS
42	NC	433	GLU
41	ND	1	MET
41	ND	2	ARG
41	ND	12	CYS
41	ND	22	GLU
41	ND	24	ILE
41	ND	25	SER
41	ND	39	ASP
41	ND	40	SER
41	ND	41	ASP
41	ND	42	LEU
41	ND	44	LEU
41	ND	46	ARG
41	ND	47	ILE
41	ND	55	THR
41	ND	58	LYS
41	ND	64	VAL
41	ND	73	MET
41	ND	74	ASP
41	ND	77	ARG
41	ND	81	PHE
41	ND	86	ARG
41	ND	88	ASP
41	ND	95	SER
41	ND	108	GLU
41	ND	113	VAL
41	ND	114	ASP
41	ND	116	VAL
41	ND	117	LEU
41	ND	121	ARG

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Mol	Chain	Res	Type
41	ND	122	LYS
41	ND	129	CYS
41	ND	131	GLN
41	ND	135	LEU
41	ND	137	HIS
41	ND	139	LEU
41	ND	147	MET
41	ND	150	LEU
41	ND	151	LEU
41	ND	152	ILE
41	ND	153	SER
41	ND	154	LYS
41	ND	156	ARG
41	ND	158	GLU
41	ND	163	ILE
41	ND	164	MET
41	ND	166	THR
41	ND	170	VAL
41	ND	172	SER
41	ND	174	LYS
41	ND	175	VAL
41	ND	176	SER
41	ND	178	THR
41	ND	179	VAL
41	ND	181	GLU
41	ND	184	ASN
41	ND	186	THR
41	ND	188	SER
41	ND	189	VAL
41	ND	191	GLN
41	ND	194	GLU
41	ND	197	ASP
41	ND	201	CYS
41	ND	204	ASN
41	ND	205	GLU
41	ND	209	ASP
41	ND	210	ILE
41	ND	212	PHE
41	ND	213	ARG
41	ND	220	PRO
41	ND	222	TYR
41	ND	224	ASP

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Mol	Chain	Res	Type
41	ND	225	LEU
41	ND	227	HIS
41	ND	236	VAL
41	ND	240	LEU
41	ND	251	ARG
41	ND	252	LYS
41	ND	253	LEU
41	ND	257	MET
41	ND	262	ARG
41	ND	263	LEU
41	ND	267	MET
41	ND	270	PHE
41	ND	273	LEU
41	ND	276	ARG
41	ND	278	SER
41	ND	279	GLN
41	ND	282	ARG
41	ND	284	LEU
41	ND	286	VAL
41	ND	288	GLU
41	ND	289	LEU
41	ND	293	MET
41	ND	297	LYS
41	ND	303	CYS
41	ND	304	ASP
41	ND	313	VAL
41	ND	318	ARG
41	ND	320	ARG
41	ND	321	MET
41	ND	323	MET
41	ND	325	GLU
41	ND	331	LEU
41	ND	333	VAL
41	ND	334	GLN
41	ND	336	LYS
41	ND	343	GLU
41	ND	345	ILE
41	ND	346	PRO
41	ND	348	ASN
41	ND	349	VAL
41	ND	350	LYS
41	ND	354	CYS

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Mol	Chain	Res	Type
41	ND	356	ILE
41	ND	361	LEU
41	ND	362	LYS
41	ND	364	SER
41	ND	374	ILE
41	ND	376	GLU
41	ND	391	ARG
41	ND	395	LEU
41	ND	396	HIS
41	ND	399	THR
41	ND	404	ASP
41	ND	405	GLU
41	ND	406	MET
41	ND	409	THR
41	ND	413	SER
41	ND	415	MET
41	ND	427	ASP
42	NE	206	ASN
42	NE	402	ARG
41	NF	1	MET
41	NF	2	ARG
41	NF	5	VAL
41	NF	6	HIS
41	NF	7	LEU
41	NF	8	GLN
41	NF	12	CYS
41	NF	19	LYS
41	NF	22	GLU
41	NF	26	ASP
41	NF	31	ASP
41	NF	39	ASP
41	NF	40	SER
41	NF	41	ASP
41	NF	45	GLU
41	NF	46	ARG
41	NF	47	ILE
41	NF	48	ASN
41	NF	58	LYS
41	NF	64	VAL
41	NF	66	VAL
41	NF	67	ASP
41	NF	69	GLU

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Mol	Chain	Res	Type
41	NF	73	MET
41	NF	77	ARG
41	NF	83	GLN
41	NF	84	ILE
41	NF	86	ARG
41	NF	91	VAL
41	NF	111	GLU
41	NF	112	LEU
41	NF	116	VAL
41	NF	121	ARG
41	NF	122	LYS
41	NF	125	GLU
41	NF	128	ASP
41	NF	133	PHE
41	NF	135	LEU
41	NF	136	THR
41	NF	138	SER
41	NF	139	LEU
41	NF	143	THR
41	NF	151	LEU
41	NF	152	ILE
41	NF	155	ILE
41	NF	161	ASP
41	NF	162	ARG
41	NF	164	MET
41	NF	165	ASN
41	NF	170	VAL
41	NF	172	SER
41	NF	174	LYS
41	NF	178	THR
41	NF	179	VAL
41	NF	180	VAL
41	NF	186	THR
41	NF	189	VAL
41	NF	192	LEU
41	NF	201	CYS
41	NF	202	ILE
41	NF	203	ASP
41	NF	204	ASN
41	NF	211	CYS
41	NF	212	PHE
41	NF	213	ARG

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Mol	Chain	Res	Type
41	NF	215	LEU
41	NF	222	TYR
41	NF	224	ASP
41	NF	227	HIS
41	NF	232	THR
41	NF	240	LEU
41	NF	241	ARG
41	NF	253	LEU
41	NF	258	VAL
41	NF	262	ARG
41	NF	263	LEU
41	NF	267	MET
41	NF	270	PHE
41	NF	274	THR
41	NF	276	ARG
41	NF	279	GLN
41	NF	281	TYR
41	NF	284	LEU
41	NF	285	THR
41	NF	289	LEU
41	NF	293	MET
41	NF	297	LYS
41	NF	298	ASN
41	NF	306	ARG
41	NF	309	ARG
41	NF	312	THR
41	NF	318	ARG
41	NF	320	ARG
41	NF	321	MET
41	NF	324	LYS
41	NF	326	VAL
41	NF	329	GLN
41	NF	335	ASN
41	NF	336	LYS
41	NF	337	ASN
41	NF	338	SER
41	NF	342	VAL
41	NF	343	GLU
41	NF	344	TRP
41	NF	348	ASN
41	NF	350	LYS
41	NF	354	CYS

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Mol	Chain	Res	Type
41	NF	359	ARG
41	NF	361	LEU
41	NF	362	LYS
41	NF	363	MET
41	NF	366	THR
41	NF	368	ILE
41	NF	374	ILE
41	NF	379	LYS
41	NF	381	ILE
41	NF	383	GLU
41	NF	389	PHE
41	NF	391	ARG
41	NF	395	LEU
41	NF	399	THR
41	NF	403	MET
41	NF	404	ASP
41	NF	410	GLU
41	NF	412	GLU
41	NF	417	ASP
41	NF	423	GLN
41	NF	427	ASP
42	NG	1	MET
42	NG	2	ARG
42	NG	3	GLU
42	NG	5	ILE
42	NG	7	VAL
42	NG	23	LEU
42	NG	25	CYS
42	NG	27	GLU
42	NG	31	GLN
42	NG	33	ASP
42	NG	52	PHE
42	NG	54	SER
42	NG	60	LYS
42	NG	62	VAL
42	NG	66	VAL
42	NG	68	VAL
42	NG	69	ASP
42	NG	71	GLU
42	NG	74	VAL
42	NG	75	ILE
42	NG	76	ASP

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Mol	Chain	Res	Type
42	NG	78	VAL
42	NG	82	THR
42	NG	84	ARG
42	NG	88	HIS
42	NG	89	PRO
42	NG	91	GLN
42	NG	96	LYS
42	NG	112	LYS
42	NG	113	GLU
42	NG	114	LEU
42	NG	116	ASP
42	NG	117	LEU
42	NG	119	LEU
42	NG	123	ARG
42	NG	124	LYS
42	NG	129	CYS
42	NG	130	THR
42	NG	133	GLN
42	NG	136	LEU
42	NG	137	ILE
42	NG	140	SER
42	NG	141	PHE
42	NG	151	SER
42	NG	153	LEU
42	NG	163	LYS
42	NG	164	LYS
42	NG	165	SER
42	NG	166	LYS
42	NG	167	LEU
42	NG	168	GLU
42	NG	170	SER
42	NG	178	SER
42	NG	187	SER
42	NG	190	THR
42	NG	191	THR
42	NG	192	HIS
42	NG	193	THR
42	NG	194	THR
42	NG	195	LEU
42	NG	196	GLU
42	NG	198	SER
42	NG	199	ASP

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Mol	Chain	Res	Type
42	NG	207	GLU
42	NG	214	ARG
42	NG	215	ARG
42	NG	216	ASN
42	NG	217	LEU
42	NG	221	ARG
42	NG	234	ILE
42	NG	245	ASP
42	NG	250	VAL
42	NG	252	LEU
42	NG	256	GLN
42	NG	260	VAL
42	NG	264	ARG
42	NG	265	ILE
42	NG	271	THR
42	NG	275	VAL
42	NG	280	LYS
42	NG	282	TYR
42	NG	284	GLU
42	NG	286	LEU
42	NG	287	SER
42	NG	291	ILE
42	NG	295	CYS
42	NG	297	GLU
42	NG	302	MET
42	NG	303	VAL
42	NG	304	LYS
42	NG	309	HIS
42	NG	316	CYS
42	NG	320	ARG
42	NG	322	ASP
42	NG	323	VAL
42	NG	327	ASP
42	NG	338	LYS
42	NG	349	THR
42	NG	352	LYS
42	NG	353	VAL
42	NG	362	VAL
42	NG	363	VAL
42	NG	367	ASP
42	NG	368	LEU
42	NG	370	LYS

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Mol	Chain	Res	Type
42	NG	371	VAL
42	NG	373	ARG
42	NG	375	VAL
42	NG	381	THR
42	NG	384	ILE
42	NG	390	ARG
42	NG	391	LEU
42	NG	401	LYS
42	NG	402	ARG
42	NG	405	VAL
42	NG	411	GLU
42	NG	414	GLU
42	NG	417	GLU
42	NG	420	GLU
42	NG	422	ARG
42	NG	423	GLU
42	NG	430	LYS
42	NG	433	GLU
42	NG	440	VAL
41	NH	1	MET
41	NH	2	ARG
41	NH	3	GLU
41	NH	4	ILE
41	NH	5	VAL
41	NH	11	GLN
41	NH	12	CYS
41	NH	19	LYS
41	NH	22	GLU
41	NH	33	THR
41	NH	35	THR
41	NH	39	ASP
41	NH	40	SER
41	NH	44	LEU
41	NH	49	VAL
41	NH	50	TYR
41	NH	55	THR
41	NH	58	LYS
41	NH	62	ARG
41	NH	69	GLU
41	NH	77	ARG
41	NH	83	GLN
41	NH	86	ARG

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Mol	Chain	Res	Type
41	NH	91	VAL
41	NH	107	THR
41	NH	108	GLU
41	NH	114	ASP
41	NH	115	SER
41	NH	117	LEU
41	NH	119	VAL
41	NH	121	ARG
41	NH	125	GLU
41	NH	128	ASP
41	NH	129	CYS
41	NH	130	LEU
41	NH	133	PHE
41	NH	134	GLN
41	NH	149	THR
41	NH	151	LEU
41	NH	152	ILE
41	NH	154	LYS
41	NH	161	ASP
41	NH	162	ARG
41	NH	164	MET
41	NH	165	ASN
41	NH	172	SER
41	NH	176	SER
41	NH	179	VAL
41	NH	180	VAL
41	NH	187	LEU
41	NH	191	GLN
41	NH	192	LEU
41	NH	193	VAL
41	NH	194	GLU
41	NH	195	ASN
41	NH	196	THR
41	NH	199	THR
41	NH	201	CYS
41	NH	202	ILE
41	NH	207	LEU
41	NH	209	ASP
41	NH	217	LEU
41	NH	222	TYR
41	NH	224	ASP
41	NH	227	HIS

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Mol	Chain	Res	Type
41	NH	228	LEU
41	NH	229	VAL
41	NH	237	THR
41	NH	239	CYS
41	NH	240	LEU
41	NH	241	ARG
41	NH	246	LEU
41	NH	250	LEU
41	NH	252	LYS
41	NH	253	LEU
41	NH	255	VAL
41	NH	264	HIS
41	NH	270	PHE
41	NH	275	SER
41	NH	279	GLN
41	NH	282	ARG
41	NH	284	LEU
41	NH	288	GLU
41	NH	290	THR
41	NH	293	MET
41	NH	297	LYS
41	NH	299	MET
41	NH	303	CYS
41	NH	311	LEU
41	NH	318	ARG
41	NH	320	ARG
41	NH	321	MET
41	NH	322	SER
41	NH	324	LYS
41	NH	328	GLU
41	NH	335	ASN
41	NH	336	LYS
41	NH	342	VAL
41	NH	344	TRP
41	NH	351	THR
41	NH	356	ILE
41	NH	361	LEU
41	NH	362	LYS
41	NH	363	MET
41	NH	364	SER
41	NH	372	THR
41	NH	374	ILE

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Mol	Chain	Res	Type
41	NH	375	GLN
41	NH	380	ARG
41	NH	383	GLU
41	NH	386	THR
41	NH	388	MET
41	NH	391	ARG
41	NH	392	LYS
41	NH	403	MET
41	NH	406	MET
41	NH	409	THR
41	NH	410	GLU
41	NH	415	MET
41	NH	417	ASP
41	NH	420	SER
41	NH	424	GLN
41	NH	427	ASP
42	NI	6	SER
42	NI	20	CYS
42	NI	23	LEU
42	NI	30	ILE
42	NI	31	GLN
42	NI	36	MET
42	NI	46	ASP
42	NI	55	GLU
42	NI	56	THR
42	NI	60	LYS
42	NI	66	VAL
42	NI	70	LEU
42	NI	71	GLU
42	NI	75	ILE
42	NI	76	ASP
42	NI	78	VAL
42	NI	82	THR
42	NI	84	ARG
42	NI	92	LEU
42	NI	93	ILE
42	NI	94	THR
42	NI	105	ARG
42	NI	109	THR
42	NI	112	LYS
42	NI	113	GLU
42	NI	115	ILE

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Mol	Chain	Res	Type
42	NI	116	ASP
42	NI	119	LEU
42	NI	124	LYS
42	NI	128	GLN
42	NI	129	CYS
42	NI	132	LEU
42	NI	133	GLN
42	NI	137	ILE
42	NI	152	LEU
42	NI	153	LEU
42	NI	154	MET
42	NI	156	ARG
42	NI	159	VAL
42	NI	163	LYS
42	NI	164	LYS
42	NI	166	LYS
42	NI	167	LEU
42	NI	168	GLU
42	NI	170	SER
42	NI	172	TYR
42	NI	176	GLN
42	NI	177	VAL
42	NI	178	SER
42	NI	179	THR
42	NI	187	SER
42	NI	188	ILE
42	NI	198	SER
42	NI	199	ASP
42	NI	200	CYS
42	NI	203	MET
42	NI	204	VAL
42	NI	205	ASP
42	NI	206	ASN
42	NI	211	ASP
42	NI	214	ARG
42	NI	215	ARG
42	NI	217	LEU
42	NI	218	ASP
42	NI	220	GLU
42	NI	221	ARG
42	NI	223	THR
42	NI	225	THR

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Mol	Chain	Res	Type
42	NI	227	LEU
42	NI	238	ILE
42	NI	241	SER
42	NI	242	LEU
42	NI	248	LEU
42	NI	249	ASN
42	NI	254	GLU
42	NI	256	GLN
42	NI	260	VAL
42	NI	264	ARG
42	NI	265	ILE
42	NI	271	THR
42	NI	275	VAL
42	NI	277	SER
42	NI	279	GLU
42	NI	280	LYS
42	NI	283	HIS
42	NI	284	GLU
42	NI	285	GLN
42	NI	286	LEU
42	NI	297	GLU
42	NI	300	ASN
42	NI	302	MET
42	NI	303	VAL
42	NI	304	LYS
42	NI	318	LEU
42	NI	320	ARG
42	NI	323	VAL
42	NI	324	VAL
42	NI	326	LYS
42	NI	332	ILE
42	NI	336	LYS
42	NI	338	LYS
42	NI	341	ILE
42	NI	346	TRP
42	NI	352	LYS
42	NI	355	ILE
42	NI	358	GLN
42	NI	362	VAL
42	NI	368	LEU
42	NI	370	LYS
42	NI	373	ARG

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Mol	Chain	Res	Type
42	NI	375	VAL
42	NI	378	LEU
42	NI	379	SER
42	NI	380	ASN
42	NI	381	THR
42	NI	390	ARG
42	NI	391	LEU
42	NI	396	ASP
42	NI	399	TYR
42	NI	401	LYS
42	NI	411	GLU
42	NI	422	ARG
42	NI	423	GLU
42	NI	425	MET
42	NI	428	LEU
42	NI	430	LYS
42	NI	433	GLU
42	NI	434	GLU
42	NI	438	ASP
42	NI	440	VAL
41	NJ	252	LYS
41	NJ	253	LEU
41	NJ	255	VAL
41	NJ	258	VAL
41	NJ	276	ARG
42	NK	2	ARG
42	NK	3	GLU
42	NK	6	SER
42	NK	9	VAL
42	NK	14	VAL
42	NK	20	CYS
42	NK	23	LEU
42	NK	25	CYS
42	NK	26	LEU
42	NK	28	HIS
42	NK	30	ILE
42	NK	33	ASP
42	NK	35	GLN
42	NK	51	THR
42	NK	60	LYS
42	NK	62	VAL
42	NK	70	LEU

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Mol	Chain	Res	Type
42	NK	74	VAL
42	NK	75	ILE
42	NK	76	ASP
42	NK	78	VAL
42	NK	79	ARG
42	NK	84	ARG
42	NK	92	LEU
42	NK	93	ILE
42	NK	96	LYS
42	NK	97	GLU
42	NK	98	ASP
42	NK	102	ASN
42	NK	109	THR
42	NK	121	ARG
42	NK	122	ILE
42	NK	128	GLN
42	NK	129	CYS
42	NK	133	GLN
42	NK	153	LEU
42	NK	155	GLU
42	NK	156	ARG
42	NK	158	SER
42	NK	163	LYS
42	NK	166	LYS
42	NK	178	SER
42	NK	179	THR
42	NK	187	SER
42	NK	192	HIS
42	NK	195	LEU
42	NK	196	GLU
42	NK	197	HIS
42	NK	200	CYS
42	NK	203	MET
42	NK	204	VAL
42	NK	215	ARG
42	NK	218	ASP
42	NK	220	GLU
42	NK	221	ARG
42	NK	223	THR
42	NK	224	TYR
42	NK	225	THR
42	NK	230	LEU

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Mol	Chain	Res	Type
42	NK	234	ILE
42	NK	237	SER
42	NK	241	SER
42	NK	242	LEU
42	NK	243	ARG
42	NK	248	LEU
42	NK	251	ASP
42	NK	252	LEU
42	NK	256	GLN
42	NK	257	THR
42	NK	259	LEU
42	NK	264	ARG
42	NK	272	TYR
42	NK	275	VAL
42	NK	276	ILE
42	NK	277	SER
42	NK	280	LYS
42	NK	285	GLN
42	NK	286	LEU
42	NK	288	VAL
42	NK	290	GLU
42	NK	303	VAL
42	NK	304	LYS
42	NK	305	CYS
42	NK	311	LYS
42	NK	318	LEU
42	NK	322	ASP
42	NK	324	VAL
42	NK	336	LYS
42	NK	338	LYS
42	NK	339	ARG
42	NK	340	THR
42	NK	345	ASP
42	NK	353	VAL
42	NK	363	VAL
42	NK	367	ASP
42	NK	368	LEU
42	NK	370	LYS
42	NK	372	GLN
42	NK	375	VAL
42	NK	377	MET
42	NK	388	TRP

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Mol	Chain	Res	Type
42	NK	390	ARG
42	NK	396	ASP
42	NK	397	LEU
42	NK	398	MET
42	NK	401	LYS
42	NK	402	ARG
42	NK	411	GLU
42	NK	419	SER
42	NK	422	ARG
42	NK	423	GLU
42	NK	428	LEU
42	NK	430	LYS
42	NK	431	ASP
42	NK	434	GLU
42	NK	435	VAL
42	NK	437	MET
41	NL	174	LYS
41	NL	291	GLN
42	OA	370	LYS
41	OB	1	MET
41	OB	7	LEU
41	OB	8	GLN
41	OB	12	CYS
41	OB	16	ILE
41	OB	19	LYS
41	OB	26	ASP
41	OB	30	ILE
41	OB	31	ASP
41	OB	40	SER
41	OB	42	LEU
41	OB	44	LEU
41	OB	46	ARG
41	OB	47	ILE
41	OB	58	LYS
41	OB	62	ARG
41	OB	64	VAL
41	OB	66	VAL
41	OB	73	MET
41	OB	75	SER
41	OB	78	SER
41	OB	84	ILE
41	OB	91	VAL

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Mol	Chain	Res	Type
41	OB	108	GLU
41	OB	112	LEU
41	OB	117	LEU
41	OB	118	ASP
41	OB	123	GLU
41	OB	127	CYS
41	OB	128	ASP
41	OB	129	CYS
41	OB	130	LEU
41	OB	135	LEU
41	OB	136	THR
41	OB	139	LEU
41	OB	145	SER
41	OB	147	MET
41	OB	149	THR
41	OB	150	LEU
41	OB	152	ILE
41	OB	154	LYS
41	OB	156	ARG
41	OB	162	ARG
41	OB	163	ILE
41	OB	164	MET
41	OB	165	ASN
41	OB	166	THR
41	OB	168	SER
41	OB	170	VAL
41	OB	172	SER
41	OB	174	LYS
41	OB	178	THR
41	OB	187	LEU
41	OB	191	GLN
41	OB	192	LEU
41	OB	195	ASN
41	OB	196	THR
41	OB	198	GLU
41	OB	199	THR
41	OB	201	CYS
41	OB	202	ILE
41	OB	207	LEU
41	OB	212	PHE
41	OB	214	THR
41	OB	216	LYS

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Mol	Chain	Res	Type
41	OB	217	LEU
41	OB	222	TYR
41	OB	225	LEU
41	OB	227	HIS
41	OB	232	THR
41	OB	233	MET
41	OB	240	LEU
41	OB	249	ASP
41	OB	252	LYS
41	OB	262	ARG
41	OB	270	PHE
41	OB	274	THR
41	OB	282	ARG
41	OB	286	VAL
41	OB	293	MET
41	OB	297	LYS
41	OB	299	MET
41	OB	303	CYS
41	OB	306	ARG
41	OB	312	THR
41	OB	313	VAL
41	OB	316	VAL
41	OB	320	ARG
41	OB	324	LYS
41	OB	325	GLU
41	OB	329	GLN
41	OB	331	LEU
41	OB	334	GLN
41	OB	335	ASN
41	OB	337	ASN
41	OB	338	SER
41	OB	349	VAL
41	OB	351	THR
41	OB	355	ASP
41	OB	359	ARG
41	OB	362	LYS
41	OB	363	MET
41	OB	366	THR
41	OB	368	ILE
41	OB	374	ILE
41	OB	379	LYS
41	OB	380	ARG

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Mol	Chain	Res	Type
41	OB	381	ILE
41	OB	388	MET
41	OB	390	ARG
41	OB	392	LYS
41	OB	395	LEU
41	OB	397	TRP
41	OB	405	GLU
41	OB	407	GLU
41	OB	410	GLU
41	OB	413	SER
41	OB	415	MET
42	OE	226	ASN
42	OE	370	LYS
42	OE	401	LYS
41	OF	37	HIS
41	OF	74	ASP
41	OF	77	ARG
41	OF	84	ILE
41	OF	88	ASP
41	OF	195	ASN
41	OF	334	GLN
42	OG	1	MET
42	OG	2	ARG
42	OG	3	GLU
42	OG	6	SER
42	OG	7	VAL
42	OG	9	VAL
42	OG	14	VAL
42	OG	20	CYS
42	OG	22	GLU
42	OG	25	CYS
42	OG	31	GLN
42	OG	33	ASP
42	OG	35	GLN
42	OG	36	MET
42	OG	46	ASP
42	OG	48	SER
42	OG	60	LYS
42	OG	62	VAL
42	OG	66	VAL
42	OG	68	VAL
42	OG	70	LEU

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Mol	Chain	Res	Type
42	OG	71	GLU
42	OG	74	VAL
42	OG	75	ILE
42	OG	79	ARG
42	OG	82	THR
42	OG	91	GLN
42	OG	94	THR
42	OG	96	LYS
42	OG	98	ASP
42	OG	109	THR
42	OG	110	ILE
42	OG	112	LYS
42	OG	113	GLU
42	OG	114	LEU
42	OG	116	ASP
42	OG	118	VAL
42	OG	119	LEU
42	OG	120	ASP
42	OG	122	ILE
42	OG	123	ARG
42	OG	124	LYS
42	OG	127	ASP
42	OG	129	CYS
42	OG	132	LEU
42	OG	136	LEU
42	OG	145	THR
42	OG	153	LEU
42	OG	163	LYS
42	OG	164	LYS
42	OG	168	GLU
42	OG	170	SER
42	OG	176	GLN
42	OG	181	VAL
42	OG	182	VAL
42	OG	194	THR
42	OG	203	MET
42	OG	204	VAL
42	OG	211	ASP
42	OG	213	CYS
42	OG	215	ARG
42	OG	216	ASN
42	OG	217	LEU

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Mol	Chain	Res	Type
42	OG	218	ASP
42	OG	221	ARG
42	OG	223	THR
42	OG	224	TYR
42	OG	226	ASN
42	OG	227	LEU
42	OG	230	LEU
42	OG	241	SER
42	OG	242	LEU
42	OG	251	ASP
42	OG	252	LEU
42	OG	255	PHE
42	OG	256	GLN
42	OG	260	VAL
42	OG	264	ARG
42	OG	266	HIS
42	OG	272	TYR
42	OG	275	VAL
42	OG	280	LYS
42	OG	283	HIS
42	OG	284	GLU
42	OG	286	LEU
42	OG	287	SER
42	OG	291	ILE
42	OG	302	MET
42	OG	303	VAL
42	OG	304	LYS
42	OG	308	ARG
42	OG	311	LYS
42	OG	317	LEU
42	OG	318	LEU
42	OG	320	ARG
42	OG	322	ASP
42	OG	323	VAL
42	OG	326	LYS
42	OG	327	ASP
42	OG	336	LYS
42	OG	338	LYS
42	OG	341	ILE
42	OG	342	GLN
42	OG	345	ASP
42	OG	352	LYS

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Mol	Chain	Res	Type
42	OG	353	VAL
42	OG	356	ASN
42	OG	363	VAL
42	OG	368	LEU
42	OG	370	LYS
42	OG	377	MET
42	OG	380	ASN
42	OG	386	GLU
42	OG	390	ARG
42	OG	397	LEU
42	OG	398	MET
42	OG	399	TYR
42	OG	401	LYS
42	OG	402	ARG
42	OG	414	GLU
42	OG	428	LEU
42	OG	430	LYS
42	OG	434	GLU
42	OG	437	MET
42	OG	439	SER
42	OG	440	VAL
41	OH	1	MET
41	OH	3	GLU
41	OH	4	ILE
41	OH	5	VAL
41	OH	7	LEU
41	OH	8	GLN
41	OH	19	LYS
41	OH	20	PHE
41	OH	31	ASP
41	OH	33	THR
41	OH	42	LEU
41	OH	43	GLN
41	OH	46	ARG
41	OH	50	TYR
41	OH	53	GLU
41	OH	58	LYS
41	OH	60	VAL
41	OH	62	ARG
41	OH	64	VAL
41	OH	66	VAL
41	OH	68	LEU

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Mol	Chain	Res	Type
41	OH	72	THR
41	OH	77	ARG
41	OH	83	GLN
41	OH	86	ARG
41	OH	88	ASP
41	OH	91	VAL
41	OH	112	LEU
41	OH	117	LEU
41	OH	118	ASP
41	OH	121	ARG
41	OH	122	LYS
41	OH	127	CYS
41	OH	129	CYS
41	OH	134	GLN
41	OH	135	LEU
41	OH	136	THR
41	OH	143	THR
41	OH	147	MET
41	OH	149	THR
41	OH	155	ILE
41	OH	156	ARG
41	OH	161	ASP
41	OH	162	ARG
41	OH	163	ILE
41	OH	164	MET
41	OH	166	THR
41	OH	168	SER
41	OH	169	VAL
41	OH	172	SER
41	OH	174	LYS
41	OH	177	ASP
41	OH	178	THR
41	OH	181	GLU
41	OH	183	TYR
41	OH	187	LEU
41	OH	192	LEU
41	OH	197	ASP
41	OH	199	THR
41	OH	201	CYS
41	OH	202	ILE
41	OH	207	LEU
41	OH	215	LEU

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Mol	Chain	Res	Type
41	OH	216	LYS
41	OH	217	LEU
41	OH	222	TYR
41	OH	224	ASP
41	OH	226	ASN
41	OH	230	SER
41	OH	239	CYS
41	OH	246	LEU
41	OH	250	LEU
41	OH	251	ARG
41	OH	257	MET
41	OH	258	VAL
41	OH	263	LEU
41	OH	284	LEU
41	OH	286	VAL
41	OH	289	LEU
41	OH	297	LYS
41	OH	300	MET
41	OH	303	CYS
41	OH	306	ARG
41	OH	309	ARG
41	OH	311	LEU
41	OH	318	ARG
41	OH	320	ARG
41	OH	321	MET
41	OH	322	SER
41	OH	323	MET
41	OH	324	LYS
41	OH	327	ASP
41	OH	328	GLU
41	OH	329	GLN
41	OH	334	GLN
41	OH	336	LYS
41	OH	338	SER
41	OH	344	TRP
41	OH	345	ILE
41	OH	347	ASN
41	OH	349	VAL
41	OH	350	LYS
41	OH	356	ILE
41	OH	359	ARG
41	OH	362	LYS

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Mol	Chain	Res	Type
41	OH	375	GLN
41	OH	376	GLU
41	OH	377	LEU
41	OH	379	LYS
41	OH	389	PHE
41	OH	390	ARG
41	OH	391	ARG
41	OH	394	PHE
41	OH	395	LEU
41	OH	401	GLU
41	OH	403	MET
41	OH	404	ASP
41	OH	406	MET
41	OH	409	THR
41	OH	412	GLU
41	OH	421	GLU
41	OH	424	GLN
41	OH	427	ASP
42	OI	2	ARG
41	OJ	1	MET
41	OJ	2	ARG
41	OJ	3	GLU
41	OJ	4	ILE
41	OJ	7	LEU
41	OJ	8	GLN
41	OJ	14	ASN
41	OJ	19	LYS
41	OJ	20	PHE
41	OJ	22	GLU
41	OJ	24	ILE
41	OJ	27	GLU
41	OJ	31	ASP
41	OJ	32	PRO
41	OJ	35	THR
41	OJ	39	ASP
41	OJ	41	ASP
41	OJ	43	GLN
41	OJ	45	GLU
41	OJ	47	ILE
41	OJ	48	ASN
41	OJ	50	TYR
41	OJ	60	VAL

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Mol	Chain	Res	Type
41	OJ	62	ARG
41	OJ	64	VAL
41	OJ	66	VAL
41	OJ	68	LEU
41	OJ	73	MET
41	OJ	75	SER
41	OJ	77	ARG
41	OJ	78	SER
41	OJ	84	ILE
41	OJ	86	ARG
41	OJ	89	ASN
41	OJ	91	VAL
41	OJ	94	GLN
41	OJ	101	TRP
41	OJ	103	LYS
41	OJ	108	GLU
41	OJ	114	ASP
41	OJ	117	LEU
41	OJ	118	ASP
41	OJ	121	ARG
41	OJ	122	LYS
41	OJ	127	CYS
41	OJ	129	CYS
41	OJ	139	LEU
41	OJ	147	MET
41	OJ	150	LEU
41	OJ	155	ILE
41	OJ	156	ARG
41	OJ	157	GLU
41	OJ	158	GLU
41	OJ	163	ILE
41	OJ	165	ASN
41	OJ	166	THR
41	OJ	168	SER
41	OJ	169	VAL
41	OJ	176	SER
41	OJ	177	ASP
41	OJ	178	THR
41	OJ	181	GLU
41	OJ	189	VAL
41	OJ	192	LEU
41	OJ	193	VAL

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Mol	Chain	Res	Type
41	OJ	197	ASP
41	OJ	199	THR
41	OJ	202	ILE
41	OJ	205	GLU
41	OJ	207	LEU
41	OJ	208	TYR
41	OJ	209	ASP
41	OJ	212	PHE
41	OJ	213	ARG
41	OJ	214	THR
41	OJ	215	LEU
41	OJ	216	LYS
41	OJ	217	LEU
41	OJ	222	TYR
41	OJ	225	LEU
41	OJ	233	MET
41	OJ	241	ARG
41	OJ	246	LEU
41	OJ	251	ARG
41	OJ	253	LEU
41	OJ	267	MET
41	OJ	276	ARG
41	OJ	280	GLN
41	OJ	286	VAL
41	OJ	290	THR
41	OJ	291	GLN
41	OJ	293	MET
41	OJ	295	ASP
41	OJ	297	LYS
41	OJ	299	MET
41	OJ	306	ARG
41	OJ	310	TYR
41	OJ	311	LEU
41	OJ	313	VAL
41	OJ	316	VAL
41	OJ	320	ARG
41	OJ	322	SER
41	OJ	324	LYS
41	OJ	327	ASP
41	OJ	329	GLN
41	OJ	336	LYS
41	OJ	339	SER

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Mol	Chain	Res	Type
41	OJ	340	TYR
41	OJ	343	GLU
41	OJ	347	ASN
41	OJ	350	LYS
41	OJ	351	THR
41	OJ	353	VAL
41	OJ	359	ARG
41	OJ	361	LEU
41	OJ	362	LYS
41	OJ	363	MET
41	OJ	364	SER
41	OJ	368	ILE
41	OJ	379	LYS
41	OJ	386	THR
41	OJ	392	LYS
41	OJ	395	LEU
41	OJ	401	GLU
41	OJ	406	MET
41	OJ	407	GLU
41	OJ	410	GLU
41	OJ	415	MET
41	OJ	420	SER
41	OJ	421	GLU
41	OJ	427	ASP
42	OK	370	LYS
42	PA	4	CYS
42	PA	9	VAL
42	PA	20	CYS
42	PA	23	LEU
42	PA	25	CYS
42	PA	27	GLU
42	PA	30	ILE
42	PA	31	GLN
42	PA	36	MET
42	PA	46	ASP
42	PA	51	THR
42	PA	53	PHE
42	PA	54	SER
42	PA	55	GLU
42	PA	60	LYS
42	PA	62	VAL
42	PA	64	ARG

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Mol	Chain	Res	Type
42	PA	66	VAL
42	PA	69	ASP
42	PA	70	LEU
42	PA	71	GLU
42	PA	76	ASP
42	PA	77	GLU
42	PA	78	VAL
42	PA	79	ARG
42	PA	82	THR
42	PA	84	ARG
42	PA	85	GLN
42	PA	91	GLN
42	PA	92	LEU
42	PA	93	ILE
42	PA	114	LEU
42	PA	115	ILE
42	PA	116	ASP
42	PA	117	LEU
42	PA	121	ARG
42	PA	123	ARG
42	PA	124	LYS
42	PA	132	LEU
42	PA	137	ILE
42	PA	147	SER
42	PA	149	PHE
42	PA	150	THR
42	PA	154	MET
42	PA	158	SER
42	PA	163	LYS
42	PA	164	LYS
42	PA	165	SER
42	PA	166	LYS
42	PA	167	LEU
42	PA	171	ILE
42	PA	188	ILE
42	PA	189	LEU
42	PA	192	HIS
42	PA	193	THR
42	PA	196	GLU
42	PA	204	VAL
42	PA	210	TYR
42	PA	212	ILE

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Mol	Chain	Res	Type
42	PA	213	CYS
42	PA	215	ARG
42	PA	216	ASN
42	PA	217	LEU
42	PA	219	ILE
42	PA	220	GLU
42	PA	221	ARG
42	PA	224	TYR
42	PA	225	THR
42	PA	227	LEU
42	PA	231	ILE
42	PA	238	ILE
42	PA	242	LEU
42	PA	243	ARG
42	PA	244	PHE
42	PA	254	GLU
42	PA	264	ARG
42	PA	265	ILE
42	PA	275	VAL
42	PA	276	ILE
42	PA	277	SER
42	PA	279	GLU
42	PA	280	LYS
42	PA	284	GLU
42	PA	288	VAL
42	PA	291	ILE
42	PA	300	ASN
42	PA	304	LYS
42	PA	305	CYS
42	PA	308	ARG
42	PA	311	LYS
42	PA	312	TYR
42	PA	313	MET
42	PA	315	CYS
42	PA	318	LEU
42	PA	322	ASP
42	PA	323	VAL
42	PA	326	LYS
42	PA	338	LYS
42	PA	339	ARG
42	PA	342	GLN
42	PA	343	PHE

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Mol	Chain	Res	Type
42	PA	345	ASP
42	PA	347	CYS
42	PA	353	VAL
42	PA	358	GLN
42	PA	362	VAL
42	PA	368	LEU
42	PA	370	LYS
42	PA	373	ARG
42	PA	377	MET
42	PA	380	ASN
42	PA	382	THR
42	PA	386	GLU
42	PA	390	ARG
42	PA	392	ASP
42	PA	430	LYS
42	PA	433	GLU
42	PA	434	GLU
41	PB	1	MET
41	PB	2	ARG
41	PB	4	ILE
41	PB	5	VAL
41	PB	7	LEU
41	PB	8	GLN
41	PB	12	CYS
41	PB	16	ILE
41	PB	26	ASP
41	PB	35	THR
41	PB	39	ASP
41	PB	40	SER
41	PB	44	LEU
41	PB	45	GLU
41	PB	47	ILE
41	PB	55	THR
41	PB	58	LYS
41	PB	62	ARG
41	PB	64	VAL
41	PB	65	LEU
41	PB	66	VAL
41	PB	68	LEU
41	PB	72	THR
41	PB	77	ARG
41	PB	78	SER

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Mol	Chain	Res	Type
41	PB	83	GLN
41	PB	88	ASP
41	PB	89	ASN
41	PB	91	VAL
41	PB	92	PHE
41	PB	106	TYR
41	PB	107	THR
41	PB	111	GLU
41	PB	112	LEU
41	PB	113	VAL
41	PB	116	VAL
41	PB	119	VAL
41	PB	121	ARG
41	PB	123	GLU
41	PB	126	SER
41	PB	129	CYS
41	PB	130	LEU
41	PB	131	GLN
41	PB	135	LEU
41	PB	138	SER
41	PB	139	LEU
41	PB	143	THR
41	PB	145	SER
41	PB	147	MET
41	PB	149	THR
41	PB	154	LYS
41	PB	155	ILE
41	PB	159	TYR
41	PB	163	ILE
41	PB	168	SER
41	PB	172	SER
41	PB	174	LYS
41	PB	176	SER
41	PB	177	ASP
41	PB	187	LEU
41	PB	189	VAL
41	PB	191	GLN
41	PB	192	LEU
41	PB	195	ASN
41	PB	198	GLU
41	PB	202	ILE
41	PB	203	ASP

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Mol	Chain	Res	Type
41	PB	207	LEU
41	PB	209	ASP
41	PB	211	CYS
41	PB	213	ARG
41	PB	215	LEU
41	PB	216	LYS
41	PB	217	LEU
41	PB	219	THR
41	PB	221	THR
41	PB	225	LEU
41	PB	227	HIS
41	PB	234	SER
41	PB	236	VAL
41	PB	240	LEU
41	PB	241	ARG
41	PB	245	GLN
41	PB	246	LEU
41	PB	249	ASP
41	PB	250	LEU
41	PB	251	ARG
41	PB	252	LYS
41	PB	256	ASN
41	PB	258	VAL
41	PB	260	PHE
41	PB	262	ARG
41	PB	264	HIS
41	PB	267	MET
41	PB	270	PHE
41	PB	275	SER
41	PB	279	GLN
41	PB	280	GLN
41	PB	281	TYR
41	PB	288	GLU
41	PB	293	MET
41	PB	297	LYS
41	PB	306	ARG
41	PB	310	TYR
41	PB	311	LEU
41	PB	312	THR
41	PB	318	ARG
41	PB	320	ARG
41	PB	322	SER

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Mol	Chain	Res	Type
41	PB	323	MET
41	PB	324	LYS
41	PB	325	GLU
41	PB	326	VAL
41	PB	331	LEU
41	PB	336	LYS
41	PB	350	LYS
41	PB	351	THR
41	PB	354	CYS
41	PB	362	LYS
41	PB	363	MET
41	PB	372	THR
41	PB	376	GLU
41	PB	381	ILE
41	PB	383	GLU
41	PB	388	MET
41	PB	389	PHE
41	PB	391	ARG
41	PB	392	LYS
41	PB	395	LEU
41	PB	406	MET
41	PB	415	MET
41	PB	416	ASN
41	PB	418	LEU
41	PB	424	GLN
41	PB	426	GLN
41	PB	427	ASP
42	PC	1	MET
42	PC	2	ARG
42	PC	4	CYS
42	PC	9	VAL
42	PC	15	GLN
42	PC	18	ASN
42	PC	20	CYS
42	PC	22	GLU
42	PC	23	LEU
42	PC	25	CYS
42	PC	26	LEU
42	PC	31	GLN
42	PC	36	MET
42	PC	47	ASP
42	PC	60	LYS

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Mol	Chain	Res	Type
42	PC	62	VAL
42	PC	66	VAL
42	PC	67	PHE
42	PC	68	VAL
42	PC	69	ASP
42	PC	71	GLU
42	PC	74	VAL
42	PC	75	ILE
42	PC	76	ASP
42	PC	79	ARG
42	PC	91	GLN
42	PC	92	LEU
42	PC	93	ILE
42	PC	94	THR
42	PC	96	LYS
42	PC	97	GLU
42	PC	109	THR
42	PC	110	ILE
42	PC	112	LYS
42	PC	113	GLU
42	PC	118	VAL
42	PC	119	LEU
42	PC	122	ILE
42	PC	124	LYS
42	PC	125	LEU
42	PC	128	GLN
42	PC	137	ILE
42	PC	139	HIS
42	PC	140	SER
42	PC	141	PHE
42	PC	149	PHE
42	PC	152	LEU
42	PC	154	MET
42	PC	157	LEU
42	PC	158	SER
42	PC	163	LYS
42	PC	164	LYS
42	PC	165	SER
42	PC	167	LEU
42	PC	168	GLU
42	PC	170	SER
42	PC	176	GLN

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Mol	Chain	Res	Type
42	PC	182	VAL
42	PC	183	GLU
42	PC	186	ASN
42	PC	188	ILE
42	PC	190	THR
42	PC	196	GLU
42	PC	199	ASP
42	PC	200	CYS
42	PC	204	VAL
42	PC	205	ASP
42	PC	215	ARG
42	PC	216	ASN
42	PC	218	ASP
42	PC	220	GLU
42	PC	221	ARG
42	PC	222	PRO
42	PC	223	THR
42	PC	224	TYR
42	PC	230	LEU
42	PC	238	ILE
42	PC	242	LEU
42	PC	243	ARG
42	PC	250	VAL
42	PC	252	LEU
42	PC	258	ASN
42	PC	259	LEU
42	PC	260	VAL
42	PC	264	ARG
42	PC	265	ILE
42	PC	269	LEU
42	PC	277	SER
42	PC	280	LYS
42	PC	283	HIS
42	PC	284	GLU
42	PC	291	ILE
42	PC	295	CYS
42	PC	300	ASN
42	PC	302	MET
42	PC	308	ARG
42	PC	311	LYS
42	PC	312	TYR
42	PC	313	MET

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Mol	Chain	Res	Type
42	PC	318	LEU
42	PC	320	ARG
42	PC	322	ASP
42	PC	324	VAL
42	PC	328	VAL
42	PC	336	LYS
42	PC	338	LYS
42	PC	339	ARG
42	PC	341	ILE
42	PC	349	THR
42	PC	351	PHE
42	PC	362	VAL
42	PC	370	LYS
42	PC	375	VAL
42	PC	377	MET
42	PC	380	ASN
42	PC	384	ILE
42	PC	390	ARG
42	PC	391	LEU
42	PC	392	ASP
42	PC	394	LYS
42	PC	396	ASP
42	PC	399	TYR
42	PC	401	LYS
42	PC	402	ARG
42	PC	411	GLU
42	PC	413	MET
42	PC	419	SER
42	PC	424	ASP
42	PC	429	GLU
42	PC	430	LYS
42	PC	437	MET
41	PD	1	MET
41	PD	2	ARG
41	PD	4	ILE
41	PD	7	LEU
41	PD	8	GLN
41	PD	14	ASN
41	PD	16	ILE
41	PD	19	LYS
41	PD	22	GLU
41	PD	26	ASP

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Mol	Chain	Res	Type
41	PD	31	ASP
41	PD	33	THR
41	PD	35	THR
41	PD	39	ASP
41	PD	40	SER
41	PD	44	LEU
41	PD	45	GLU
41	PD	47	ILE
41	PD	48	ASN
41	PD	53	GLU
41	PD	58	LYS
41	PD	62	ARG
41	PD	66	VAL
41	PD	67	ASP
41	PD	68	LEU
41	PD	77	ARG
41	PD	78	SER
41	PD	84	ILE
41	PD	88	ASP
41	PD	91	VAL
41	PD	95	SER
41	PD	103	LYS
41	PD	105	HIS
41	PD	112	LEU
41	PD	114	ASP
41	PD	115	SER
41	PD	117	LEU
41	PD	121	ARG
41	PD	122	LYS
41	PD	125	GLU
41	PD	127	CYS
41	PD	135	LEU
41	PD	136	THR
41	PD	137	HIS
41	PD	139	LEU
41	PD	145	SER
41	PD	147	MET
41	PD	151	LEU
41	PD	154	LYS
41	PD	155	ILE
41	PD	157	GLU
41	PD	161	ASP

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Mol	Chain	Res	Type
41	PD	162	ARG
41	PD	165	ASN
41	PD	168	SER
41	PD	169	VAL
41	PD	172	SER
41	PD	175	VAL
41	PD	180	VAL
41	PD	186	THR
41	PD	187	LEU
41	PD	191	GLN
41	PD	192	LEU
41	PD	193	VAL
41	PD	194	GLU
41	PD	195	ASN
41	PD	201	CYS
41	PD	205	GLU
41	PD	207	LEU
41	PD	211	CYS
41	PD	216	LYS
41	PD	217	LEU
41	PD	224	ASP
41	PD	238	THR
41	PD	241	ARG
41	PD	242	PHE
41	PD	246	LEU
41	PD	249	ASP
41	PD	252	LYS
41	PD	253	LEU
41	PD	262	ARG
41	PD	263	LEU
41	PD	273	LEU
41	PD	274	THR
41	PD	275	SER
41	PD	280	GLN
41	PD	282	ARG
41	PD	284	LEU
41	PD	297	LYS
41	PD	298	ASN
41	PD	299	MET
41	PD	304	ASP
41	PD	305	PRO
41	PD	309	ARG

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Mol	Chain	Res	Type
41	PD	311	LEU
41	PD	312	THR
41	PD	316	VAL
41	PD	320	ARG
41	PD	321	MET
41	PD	324	LYS
41	PD	327	ASP
41	PD	329	GLN
41	PD	330	MET
41	PD	332	ASN
41	PD	335	ASN
41	PD	336	LYS
41	PD	342	VAL
41	PD	347	ASN
41	PD	348	ASN
41	PD	354	CYS
41	PD	355	ASP
41	PD	359	ARG
41	PD	361	LEU
41	PD	362	LYS
41	PD	363	MET
41	PD	375	GLN
41	PD	379	LYS
41	PD	383	GLU
41	PD	389	PHE
41	PD	390	ARG
41	PD	392	LYS
41	PD	395	LEU
41	PD	407	GLU
41	PD	410	GLU
41	PD	415	MET
41	PD	417	ASP
41	PD	419	VAL
41	PD	423	GLN
41	PD	424	GLN
41	PD	426	GLN
41	PD	427	ASP
42	PE	1	MET
42	PE	2	ARG
42	PE	7	VAL
42	PE	9	VAL
42	PE	11	GLN

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Mol	Chain	Res	Type
42	PE	15	GLN
42	PE	22	GLU
42	PE	23	LEU
42	PE	26	LEU
42	PE	27	GLU
42	PE	48	SER
42	PE	52	PHE
42	PE	56	THR
42	PE	68	VAL
42	PE	73	THR
42	PE	74	VAL
42	PE	76	ASP
42	PE	77	GLU
42	PE	79	ARG
42	PE	82	THR
42	PE	87	PHE
42	PE	91	GLN
42	PE	92	LEU
42	PE	93	ILE
42	PE	96	LYS
42	PE	109	THR
42	PE	110	ILE
42	PE	112	LYS
42	PE	117	LEU
42	PE	119	LEU
42	PE	122	ILE
42	PE	123	ARG
42	PE	124	LYS
42	PE	125	LEU
42	PE	132	LEU
42	PE	139	HIS
42	PE	141	PHE
42	PE	154	MET
42	PE	155	GLU
42	PE	156	ARG
42	PE	160	ASP
42	PE	163	LYS
42	PE	164	LYS
42	PE	165	SER
42	PE	169	PHE
42	PE	170	SER
42	PE	171	ILE

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Mol	Chain	Res	Type
42	PE	183	GLU
42	PE	187	SER
42	PE	188	ILE
42	PE	190	THR
42	PE	193	THR
42	PE	194	THR
42	PE	199	ASP
42	PE	204	VAL
42	PE	207	GLU
42	PE	209	ILE
42	PE	211	ASP
42	PE	212	ILE
42	PE	214	ARG
42	PE	215	ARG
42	PE	217	LEU
42	PE	219	ILE
42	PE	224	TYR
42	PE	227	LEU
42	PE	234	ILE
42	PE	236	SER
42	PE	238	ILE
42	PE	239	THR
42	PE	242	LEU
42	PE	245	ASP
42	PE	248	LEU
42	PE	256	GLN
42	PE	259	LEU
42	PE	265	ILE
42	PE	272	TYR
42	PE	276	ILE
42	PE	280	LYS
42	PE	282	TYR
42	PE	283	HIS
42	PE	285	GLN
42	PE	286	LEU
42	PE	290	GLU
42	PE	300	ASN
42	PE	301	GLN
42	PE	303	VAL
42	PE	304	LYS
42	PE	306	ASP
42	PE	311	LYS

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Mol	Chain	Res	Type
42	PE	312	TYR
42	PE	313	MET
42	PE	317	LEU
42	PE	322	ASP
42	PE	326	LYS
42	PE	327	ASP
42	PE	328	VAL
42	PE	337	THR
42	PE	341	ILE
42	PE	342	GLN
42	PE	343	PHE
42	PE	344	VAL
42	PE	349	THR
42	PE	351	PHE
42	PE	353	VAL
42	PE	356	ASN
42	PE	362	VAL
42	PE	367	ASP
42	PE	368	LEU
42	PE	371	VAL
42	PE	373	ARG
42	PE	375	VAL
42	PE	377	MET
42	PE	380	ASN
42	PE	386	GLU
42	PE	391	LEU
42	PE	396	ASP
42	PE	398	MET
42	PE	401	LYS
42	PE	402	ARG
42	PE	415	GLU
42	PE	420	GLU
42	PE	430	LYS
42	PE	433	GLU
42	PE	434	GLU
42	PE	437	MET
42	PE	441	GLU
41	PF	2	ARG
41	PF	8	GLN
41	PF	16	ILE
41	PF	19	LYS
41	PF	20	PHE

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Mol	Chain	Res	Type
41	PF	26	ASP
41	PF	35	THR
41	PF	42	LEU
41	PF	44	LEU
41	PF	46	ARG
41	PF	47	ILE
41	PF	48	ASN
41	PF	50	TYR
41	PF	51	TYR
41	PF	55	THR
41	PF	58	LYS
41	PF	62	ARG
41	PF	65	LEU
41	PF	66	VAL
41	PF	68	LEU
41	PF	73	MET
41	PF	74	ASP
41	PF	75	SER
41	PF	83	GLN
41	PF	84	ILE
41	PF	88	ASP
41	PF	91	VAL
41	PF	92	PHE
41	PF	94	GLN
41	PF	103	LYS
41	PF	111	GLU
41	PF	112	LEU
41	PF	114	ASP
41	PF	116	VAL
41	PF	117	LEU
41	PF	121	ARG
41	PF	123	GLU
41	PF	125	GLU
41	PF	126	SER
41	PF	128	ASP
41	PF	134	GLN
41	PF	135	LEU
41	PF	136	THR
41	PF	138	SER
41	PF	139	LEU
41	PF	147	MET
41	PF	150	LEU

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Mol	Chain	Res	Type
41	PF	152	ILE
41	PF	153	SER
41	PF	154	LYS
41	PF	156	ARG
41	PF	157	GLU
41	PF	164	MET
41	PF	172	SER
41	PF	174	LYS
41	PF	181	GLU
41	PF	187	LEU
41	PF	188	SER
41	PF	193	VAL
41	PF	194	GLU
41	PF	197	ASP
41	PF	199	THR
41	PF	205	GLU
41	PF	212	PHE
41	PF	213	ARG
41	PF	215	LEU
41	PF	216	LYS
41	PF	217	LEU
41	PF	221	THR
41	PF	222	TYR
41	PF	225	LEU
41	PF	226	ASN
41	PF	228	LEU
41	PF	229	VAL
41	PF	233	MET
41	PF	245	GLN
41	PF	246	LEU
41	PF	249	ASP
41	PF	253	LEU
41	PF	255	VAL
41	PF	256	ASN
41	PF	267	MET
41	PF	270	PHE
41	PF	275	SER
41	PF	276	ARG
41	PF	280	GLN
41	PF	282	ARG
41	PF	284	LEU
41	PF	292	GLN

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Mol	Chain	Res	Type
41	PF	299	MET
41	PF	306	ARG
41	PF	309	ARG
41	PF	310	TYR
41	PF	311	LEU
41	PF	312	THR
41	PF	313	VAL
41	PF	316	VAL
41	PF	318	ARG
41	PF	320	ARG
41	PF	322	SER
41	PF	323	MET
41	PF	325	GLU
41	PF	326	VAL
41	PF	329	GLN
41	PF	330	MET
41	PF	331	LEU
41	PF	335	ASN
41	PF	337	ASN
41	PF	359	ARG
41	PF	362	LYS
41	PF	372	THR
41	PF	377	LEU
41	PF	379	LYS
41	PF	381	ILE
41	PF	382	SER
41	PF	391	ARG
41	PF	392	LYS
41	PF	403	MET
41	PF	405	GLU
41	PF	406	MET
41	PF	410	GLU
41	PF	414	ASN
41	PF	421	GLU
41	PF	424	GLN
41	PF	426	GLN
42	PG	1	MET
42	PG	2	ARG
42	PG	4	CYS
42	PG	5	ILE
42	PG	7	VAL
42	PG	9	VAL

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Mol	Chain	Res	Type
42	PG	14	VAL
42	PG	20	CYS
42	PG	22	GLU
42	PG	25	CYS
42	PG	33	ASP
42	PG	35	GLN
42	PG	52	PHE
42	PG	55	GLU
42	PG	56	THR
42	PG	60	LYS
42	PG	62	VAL
42	PG	68	VAL
42	PG	75	ILE
42	PG	77	GLU
42	PG	79	ARG
42	PG	87	PHE
42	PG	90	GLU
42	PG	91	GLN
42	PG	93	ILE
42	PG	94	THR
42	PG	96	LYS
42	PG	102	ASN
42	PG	105	ARG
42	PG	110	ILE
42	PG	112	LYS
42	PG	115	ILE
42	PG	116	ASP
42	PG	117	LEU
42	PG	119	LEU
42	PG	120	ASP
42	PG	121	ARG
42	PG	122	ILE
42	PG	123	ARG
42	PG	125	LEU
42	PG	127	ASP
42	PG	132	LEU
42	PG	133	GLN
42	PG	136	LEU
42	PG	137	ILE
42	PG	138	PHE
42	PG	140	SER
42	PG	151	SER

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Mol	Chain	Res	Type
42	PG	152	LEU
42	PG	153	LEU
42	PG	154	MET
42	PG	163	LYS
42	PG	166	LYS
42	PG	167	LEU
42	PG	169	PHE
42	PG	170	SER
42	PG	182	VAL
42	PG	183	GLU
42	PG	184	PRO
42	PG	190	THR
42	PG	196	GLU
42	PG	197	HIS
42	PG	199	ASP
42	PG	200	CYS
42	PG	202	PHE
42	PG	204	VAL
42	PG	212	ILE
42	PG	213	CYS
42	PG	215	ARG
42	PG	218	ASP
42	PG	219	ILE
42	PG	220	GLU
42	PG	221	ARG
42	PG	224	TYR
42	PG	225	THR
42	PG	226	ASN
42	PG	227	LEU
42	PG	229	ARG
42	PG	234	ILE
42	PG	236	SER
42	PG	238	ILE
42	PG	241	SER
42	PG	243	ARG
42	PG	245	ASP
42	PG	250	VAL
42	PG	253	THR
42	PG	255	PHE
42	PG	256	GLN
42	PG	258	ASN
42	PG	272	TYR

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Mol	Chain	Res	Type
42	PG	276	ILE
42	PG	280	LYS
42	PG	284	GLU
42	PG	286	LEU
42	PG	291	ILE
42	PG	300	ASN
42	PG	303	VAL
42	PG	305	CYS
42	PG	308	ARG
42	PG	312	TYR
42	PG	313	MET
42	PG	317	LEU
42	PG	320	ARG
42	PG	323	VAL
42	PG	326	LYS
42	PG	328	VAL
42	PG	334	THR
42	PG	336	LYS
42	PG	339	ARG
42	PG	342	GLN
42	PG	343	PHE
42	PG	345	ASP
42	PG	349	THR
42	PG	353	VAL
42	PG	356	ASN
42	PG	364	PRO
42	PG	368	LEU
42	PG	371	VAL
42	PG	373	ARG
42	PG	375	VAL
42	PG	377	MET
42	PG	381	THR
42	PG	384	ILE
42	PG	386	GLU
42	PG	388	TRP
42	PG	392	ASP
42	PG	395	PHE
42	PG	397	LEU
42	PG	398	MET
42	PG	401	LYS
42	PG	408	TYR
42	PG	411	GLU

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Mol	Chain	Res	Type
42	PG	415	GLU
42	PG	419	SER
42	PG	423	GLU
42	PG	433	GLU
41	PH	1	MET
41	PH	2	ARG
41	PH	4	ILE
41	PH	6	HIS
41	PH	19	LYS
41	PH	26	ASP
41	PH	27	GLU
41	PH	31	ASP
41	PH	35	THR
41	PH	40	SER
41	PH	42	LEU
41	PH	43	GLN
41	PH	44	LEU
41	PH	46	ARG
41	PH	50	TYR
41	PH	51	TYR
41	PH	53	GLU
41	PH	58	LYS
41	PH	60	VAL
41	PH	62	ARG
41	PH	64	VAL
41	PH	65	LEU
41	PH	68	LEU
41	PH	69	GLU
41	PH	72	THR
41	PH	73	MET
41	PH	74	ASP
41	PH	77	ARG
41	PH	83	GLN
41	PH	84	ILE
41	PH	88	ASP
41	PH	92	PHE
41	PH	100	ASN
41	PH	103	LYS
41	PH	108	GLU
41	PH	111	GLU
41	PH	112	LEU
41	PH	114	ASP

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Mol	Chain	Res	Type
41	PH	115	SER
41	PH	116	VAL
41	PH	117	LEU
41	PH	119	VAL
41	PH	121	ARG
41	PH	122	LYS
41	PH	125	GLU
41	PH	126	SER
41	PH	128	ASP
41	PH	131	GLN
41	PH	135	LEU
41	PH	138	SER
41	PH	147	MET
41	PH	150	LEU
41	PH	152	ILE
41	PH	154	LYS
41	PH	157	GLU
41	PH	158	GLU
41	PH	159	TYR
41	PH	162	ARG
41	PH	163	ILE
41	PH	165	ASN
41	PH	166	THR
41	PH	168	SER
41	PH	170	VAL
41	PH	172	SER
41	PH	174	LYS
41	PH	177	ASP
41	PH	181	GLU
41	PH	182	PRO
41	PH	191	GLN
41	PH	192	LEU
41	PH	194	GLU
41	PH	195	ASN
41	PH	196	THR
41	PH	197	ASP
41	PH	199	THR
41	PH	204	ASN
41	PH	207	LEU
41	PH	213	ARG
41	PH	216	LYS
41	PH	225	LEU

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Mol	Chain	Res	Type
41	PH	228	LEU
41	PH	229	VAL
41	PH	233	MET
41	PH	237	THR
41	PH	241	ARG
41	PH	245	GLN
41	PH	249	ASP
41	PH	251	ARG
41	PH	252	LYS
41	PH	253	LEU
41	PH	255	VAL
41	PH	261	PRO
41	PH	264	HIS
41	PH	266	PHE
41	PH	267	MET
41	PH	276	ARG
41	PH	278	SER
41	PH	284	LEU
41	PH	288	GLU
41	PH	289	LEU
41	PH	293	MET
41	PH	297	LYS
41	PH	299	MET
41	PH	306	ARG
41	PH	307	HIS
41	PH	311	LEU
41	PH	312	THR
41	PH	313	VAL
41	PH	316	VAL
41	PH	324	LYS
41	PH	329	GLN
41	PH	331	LEU
41	PH	333	VAL
41	PH	334	GLN
41	PH	336	LYS
41	PH	337	ASN
41	PH	339	SER
41	PH	342	VAL
41	PH	346	PRO
41	PH	350	LYS
41	PH	353	VAL
41	PH	355	ASP

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Mol	Chain	Res	Type
41	PH	356	ILE
41	PH	359	ARG
41	PH	361	LEU
41	PH	362	LYS
41	PH	363	MET
41	PH	375	GLN
41	PH	377	LEU
41	PH	379	LYS
41	PH	380	ARG
41	PH	381	ILE
41	PH	383	GLU
41	PH	389	PHE
41	PH	390	ARG
41	PH	391	ARG
41	PH	392	LYS
41	PH	395	LEU
41	PH	399	THR
41	PH	404	ASP
41	PH	405	GLU
41	PH	409	THR
41	PH	412	GLU
41	PH	414	ASN
41	PH	424	GLN
42	PI	2	ARG
42	PI	4	CYS
42	PI	7	VAL
42	PI	9	VAL
42	PI	16	ILE
42	PI	24	TYR
42	PI	26	LEU
42	PI	35	GLN
42	PI	36	MET
42	PI	50	ASN
42	PI	51	THR
42	PI	60	LYS
42	PI	62	VAL
42	PI	66	VAL
42	PI	67	PHE
42	PI	68	VAL
42	PI	69	ASP
42	PI	74	VAL
42	PI	76	ASP

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Mol	Chain	Res	Type
42	PI	78	VAL
42	PI	79	ARG
42	PI	80	THR
42	PI	86	LEU
42	PI	87	PHE
42	PI	91	GLN
42	PI	94	THR
42	PI	96	LYS
42	PI	97	GLU
42	PI	105	ARG
42	PI	107	HIS
42	PI	115	ILE
42	PI	116	ASP
42	PI	117	LEU
42	PI	119	LEU
42	PI	122	ILE
42	PI	123	ARG
42	PI	124	LYS
42	PI	128	GLN
42	PI	132	LEU
42	PI	137	ILE
42	PI	139	HIS
42	PI	149	PHE
42	PI	152	LEU
42	PI	153	LEU
42	PI	155	GLU
42	PI	156	ARG
42	PI	157	LEU
42	PI	163	LYS
42	PI	167	LEU
42	PI	169	PHE
42	PI	176	GLN
42	PI	177	VAL
42	PI	181	VAL
42	PI	182	VAL
42	PI	183	GLU
42	PI	184	PRO
42	PI	187	SER
42	PI	188	ILE
42	PI	191	THR
42	PI	193	THR
42	PI	196	GLU

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Mol	Chain	Res	Type
42	PI	197	HIS
42	PI	199	ASP
42	PI	200	CYS
42	PI	212	ILE
42	PI	213	CYS
42	PI	215	ARG
42	PI	219	ILE
42	PI	220	GLU
42	PI	221	ARG
42	PI	223	THR
42	PI	234	ILE
42	PI	238	ILE
42	PI	242	LEU
42	PI	245	ASP
42	PI	250	VAL
42	PI	252	LEU
42	PI	253	THR
42	PI	256	GLN
42	PI	259	LEU
42	PI	260	VAL
42	PI	262	TYR
42	PI	265	ILE
42	PI	271	THR
42	PI	272	TYR
42	PI	276	ILE
42	PI	279	GLU
42	PI	280	LYS
42	PI	284	GLU
42	PI	286	LEU
42	PI	291	ILE
42	PI	301	GLN
42	PI	302	MET
42	PI	304	LYS
42	PI	306	ASP
42	PI	307	PRO
42	PI	308	ARG
42	PI	313	MET
42	PI	316	CYS
42	PI	320	ARG
42	PI	323	VAL
42	PI	325	PRO
42	PI	326	LYS

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Mol	Chain	Res	Type
42	PI	336	LYS
42	PI	338	LYS
42	PI	339	ARG
42	PI	340	THR
42	PI	341	ILE
42	PI	343	PHE
42	PI	347	CYS
42	PI	349	THR
42	PI	351	PHE
42	PI	352	LYS
42	PI	362	VAL
42	PI	363	VAL
42	PI	368	LEU
42	PI	370	LYS
42	PI	371	VAL
42	PI	373	ARG
42	PI	376	CYS
42	PI	377	MET
42	PI	378	LEU
42	PI	395	PHE
42	PI	396	ASP
42	PI	397	LEU
42	PI	398	MET
42	PI	399	TYR
42	PI	401	LYS
42	PI	411	GLU
42	PI	413	MET
42	PI	419	SER
42	PI	420	GLU
42	PI	422	ARG
42	PI	423	GLU
42	PI	425	MET
42	PI	430	LYS
42	PI	433	GLU
42	PI	437	MET
41	PJ	1	MET
41	PJ	2	ARG
41	PJ	7	LEU
41	PJ	15	GLN
41	PJ	19	LYS
41	PJ	20	PHE
41	PJ	25	SER

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Mol	Chain	Res	Type
41	PJ	26	ASP
41	PJ	30	ILE
41	PJ	31	ASP
41	PJ	42	LEU
41	PJ	45	GLU
41	PJ	46	ARG
41	PJ	51	TYR
41	PJ	58	LYS
41	PJ	60	VAL
41	PJ	62	ARG
41	PJ	64	VAL
41	PJ	65	LEU
41	PJ	66	VAL
41	PJ	68	LEU
41	PJ	72	THR
41	PJ	73	MET
41	PJ	76	VAL
41	PJ	78	SER
41	PJ	84	ILE
41	PJ	88	ASP
41	PJ	103	LYS
41	PJ	111	GLU
41	PJ	112	LEU
41	PJ	114	ASP
41	PJ	115	SER
41	PJ	116	VAL
41	PJ	119	VAL
41	PJ	120	VAL
41	PJ	121	ARG
41	PJ	122	LYS
41	PJ	123	GLU
41	PJ	126	SER
41	PJ	128	ASP
41	PJ	129	CYS
41	PJ	131	GLN
41	PJ	133	PHE
41	PJ	135	LEU
41	PJ	138	SER
41	PJ	145	SER
41	PJ	147	MET
41	PJ	151	LEU
41	PJ	154	LYS

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Mol	Chain	Res	Type
41	PJ	157	GLU
41	PJ	158	GLU
41	PJ	161	ASP
41	PJ	162	ARG
41	PJ	163	ILE
41	PJ	164	MET
41	PJ	171	PRO
41	PJ	174	LYS
41	PJ	176	SER
41	PJ	177	ASP
41	PJ	180	VAL
41	PJ	182	PRO
41	PJ	187	LEU
41	PJ	188	SER
41	PJ	191	GLN
41	PJ	193	VAL
41	PJ	194	GLU
41	PJ	195	ASN
41	PJ	197	ASP
41	PJ	199	THR
41	PJ	202	ILE
41	PJ	203	ASP
41	PJ	207	LEU
41	PJ	210	ILE
41	PJ	212	PHE
41	PJ	213	ARG
41	PJ	216	LYS
41	PJ	217	LEU
41	PJ	221	THR
41	PJ	222	TYR
41	PJ	224	ASP
41	PJ	227	HIS
41	PJ	228	LEU
41	PJ	229	VAL
41	PJ	233	MET
41	PJ	241	ARG
41	PJ	250	LEU
41	PJ	252	LYS
41	PJ	253	LEU
41	PJ	255	VAL
41	PJ	256	ASN
41	PJ	258	VAL

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Mol	Chain	Res	Type
41	PJ	267	MET
41	PJ	270	PHE
41	PJ	273	LEU
41	PJ	276	ARG
41	PJ	280	GLN
41	PJ	282	ARG
41	PJ	285	THR
41	PJ	288	GLU
41	PJ	289	LEU
41	PJ	299	MET
41	PJ	303	CYS
41	PJ	306	ARG
41	PJ	309	ARG
41	PJ	311	LEU
41	PJ	312	THR
41	PJ	316	VAL
41	PJ	318	ARG
41	PJ	320	ARG
41	PJ	322	SER
41	PJ	324	LYS
41	PJ	329	GLN
41	PJ	330	MET
41	PJ	331	LEU
41	PJ	336	LYS
41	PJ	346	PRO
41	PJ	348	ASN
41	PJ	349	VAL
41	PJ	350	LYS
41	PJ	353	VAL
41	PJ	357	PRO
41	PJ	359	ARG
41	PJ	362	LYS
41	PJ	371	SER
41	PJ	372	THR
41	PJ	375	GLN
41	PJ	377	LEU
41	PJ	380	ARG
41	PJ	381	ILE
41	PJ	382	SER
41	PJ	383	GLU
41	PJ	388	MET
41	PJ	389	PHE

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Mol	Chain	Res	Type
41	PJ	390	ARG
41	PJ	391	ARG
41	PJ	392	LYS
41	PJ	395	LEU
41	PJ	396	HIS
41	PJ	397	TRP
41	PJ	399	THR
41	PJ	403	MET
41	PJ	405	GLU
41	PJ	406	MET
41	PJ	407	GLU
41	PJ	410	GLU
41	PJ	413	SER
41	PJ	415	MET
41	PJ	421	GLU
41	PJ	423	GLN
41	PJ	424	GLN
41	PJ	426	GLN
42	PK	1	MET
42	PK	4	CYS
42	PK	7	VAL
42	PK	11	GLN
42	PK	16	ILE
42	PK	20	CYS
42	PK	25	CYS
42	PK	26	LEU
42	PK	27	GLU
42	PK	30	ILE
42	PK	52	PHE
42	PK	67	PHE
42	PK	68	VAL
42	PK	70	LEU
42	PK	71	GLU
42	PK	75	ILE
42	PK	76	ASP
42	PK	78	VAL
42	PK	90	GLU
42	PK	91	GLN
42	PK	93	ILE
42	PK	96	LYS
42	PK	110	ILE
42	PK	112	LYS

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Mol	Chain	Res	Type
42	PK	116	ASP
42	PK	119	LEU
42	PK	120	ASP
42	PK	121	ARG
42	PK	122	ILE
42	PK	123	ARG
42	PK	133	GLN
42	PK	137	ILE
42	PK	141	PHE
42	PK	149	PHE
42	PK	163	LYS
42	PK	164	LYS
42	PK	166	LYS
42	PK	167	LEU
42	PK	182	VAL
42	PK	183	GLU
42	PK	187	SER
42	PK	188	ILE
42	PK	190	THR
42	PK	196	GLU
42	PK	199	ASP
42	PK	204	VAL
42	PK	209	ILE
42	PK	211	ASP
42	PK	212	ILE
42	PK	213	CYS
42	PK	215	ARG
42	PK	217	LEU
42	PK	218	ASP
42	PK	220	GLU
42	PK	221	ARG
42	PK	224	TYR
42	PK	231	ILE
42	PK	237	SER
42	PK	238	ILE
42	PK	242	LEU
42	PK	243	ARG
42	PK	248	LEU
42	PK	251	ASP
42	PK	255	PHE
42	PK	259	LEU
42	PK	266	HIS

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Mol	Chain	Res	Type
42	PK	275	VAL
42	PK	276	ILE
42	PK	280	LYS
42	PK	282	TYR
42	PK	283	HIS
42	PK	284	GLU
42	PK	286	LEU
42	PK	290	GLU
42	PK	291	ILE
42	PK	293	ASN
42	PK	303	VAL
42	PK	304	LYS
42	PK	317	LEU
42	PK	318	LEU
42	PK	320	ARG
42	PK	323	VAL
42	PK	326	LYS
42	PK	327	ASP
42	PK	338	LYS
42	PK	347	CYS
42	PK	349	THR
42	PK	352	LYS
42	PK	353	VAL
42	PK	363	VAL
42	PK	367	ASP
42	PK	370	LYS
42	PK	371	VAL
42	PK	373	ARG
42	PK	375	VAL
42	PK	378	LEU
42	PK	380	ASN
42	PK	382	THR
42	PK	384	ILE
42	PK	394	LYS
42	PK	396	ASP
42	PK	397	LEU
42	PK	398	MET
42	PK	399	TYR
42	PK	401	LYS
42	PK	402	ARG
42	PK	405	VAL
42	PK	420	GLU

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Mol	Chain	Res	Type
42	PK	422	ARG
42	PK	423	GLU
42	PK	425	MET
42	PK	430	LYS
42	PK	437	MET
42	PK	438	ASP
42	PK	440	VAL
41	PL	2	ARG
41	PL	7	LEU
41	PL	8	GLN
41	PL	16	ILE
41	PL	19	LYS
41	PL	26	ASP
41	PL	27	GLU
41	PL	39	ASP
41	PL	42	LEU
41	PL	44	LEU
41	PL	45	GLU
41	PL	46	ARG
41	PL	48	ASN
41	PL	49	VAL
41	PL	53	GLU
41	PL	58	LYS
41	PL	60	VAL
41	PL	62	ARG
41	PL	65	LEU
41	PL	66	VAL
41	PL	68	LEU
41	PL	72	THR
41	PL	73	MET
41	PL	75	SER
41	PL	76	VAL
41	PL	83	GLN
41	PL	84	ILE
41	PL	86	ARG
41	PL	88	ASP
41	PL	91	VAL
41	PL	100	ASN
41	PL	103	LYS
41	PL	111	GLU
41	PL	114	ASP
41	PL	115	SER

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Mol	Chain	Res	Type
41	PL	117	LEU
41	PL	119	VAL
41	PL	121	ARG
41	PL	122	LYS
41	PL	126	SER
41	PL	130	LEU
41	PL	135	LEU
41	PL	136	THR
41	PL	143	THR
41	PL	145	SER
41	PL	147	MET
41	PL	150	LEU
41	PL	151	LEU
41	PL	156	ARG
41	PL	158	GLU
41	PL	159	TYR
41	PL	163	ILE
41	PL	164	MET
41	PL	169	VAL
41	PL	174	LYS
41	PL	177	ASP
41	PL	184	ASN
41	PL	188	SER
41	PL	190	HIS
41	PL	192	LEU
41	PL	193	VAL
41	PL	195	ASN
41	PL	196	THR
41	PL	197	ASP
41	PL	201	CYS
41	PL	202	ILE
41	PL	205	GLU
41	PL	209	ASP
41	PL	210	ILE
41	PL	212	PHE
41	PL	214	THR
41	PL	215	LEU
41	PL	216	LYS
41	PL	217	LEU
41	PL	222	TYR
41	PL	228	LEU
41	PL	239	CYS

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Mol	Chain	Res	Type
41	PL	240	LEU
41	PL	245	GLN
41	PL	250	LEU
41	PL	253	LEU
41	PL	258	VAL
41	PL	260	PHE
41	PL	273	LEU
41	PL	274	THR
41	PL	276	ARG
41	PL	278	SER
41	PL	282	ARG
41	PL	284	LEU
41	PL	293	MET
41	PL	300	MET
41	PL	304	ASP
41	PL	306	ARG
41	PL	307	HIS
41	PL	309	ARG
41	PL	311	LEU
41	PL	312	THR
41	PL	316	VAL
41	PL	318	ARG
41	PL	320	ARG
41	PL	322	SER
41	PL	323	MET
41	PL	325	GLU
41	PL	326	VAL
41	PL	328	GLU
41	PL	330	MET
41	PL	331	LEU
41	PL	336	LYS
41	PL	337	ASN
41	PL	340	TYR
41	PL	342	VAL
41	PL	343	GLU
41	PL	345	ILE
41	PL	347	ASN
41	PL	350	LYS
41	PL	351	THR
41	PL	353	VAL
41	PL	359	ARG
41	PL	362	LYS

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Mol	Chain	Res	Type
41	PL	363	MET
41	PL	372	THR
41	PL	375	GLN
41	PL	376	GLU
41	PL	377	LEU
41	PL	389	PHE
41	PL	390	ARG
41	PL	392	LYS
41	PL	396	HIS
41	PL	398	TYR
41	PL	401	GLU
41	PL	403	MET
41	PL	409	THR
41	PL	415	MET
41	PL	418	LEU
41	PL	420	SER
41	PL	421	GLU
41	PL	425	TYR
41	QB	11	GLN
42	QC	300	ASN
42	QE	84	ARG
42	QE	221	ARG
42	QE	226	ASN
41	QF	2	ARG
41	QF	297	LYS
42	QG	206	ASN
41	QH	1	MET
41	QH	4	ILE
41	QH	8	GLN
41	QH	12	CYS
41	QH	21	TRP
41	QH	22	GLU
41	QH	26	ASP
41	QH	31	ASP
41	QH	36	TYR
41	QH	39	ASP
41	QH	41	ASP
41	QH	46	ARG
41	QH	47	ILE
41	QH	48	ASN
41	QH	49	VAL
41	QH	58	LYS

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Mol	Chain	Res	Type
41	QH	62	ARG
41	QH	64	VAL
41	QH	65	LEU
41	QH	66	VAL
41	QH	74	ASP
41	QH	77	ARG
41	QH	86	ARG
41	QH	91	VAL
41	QH	107	THR
41	QH	108	GLU
41	QH	111	GLU
41	QH	112	LEU
41	QH	114	ASP
41	QH	117	LEU
41	QH	122	LYS
41	QH	125	GLU
41	QH	126	SER
41	QH	130	LEU
41	QH	131	GLN
41	QH	135	LEU
41	QH	137	HIS
41	QH	139	LEU
41	QH	145	SER
41	QH	150	LEU
41	QH	151	LEU
41	QH	154	LYS
41	QH	158	GLU
41	QH	162	ARG
41	QH	164	MET
41	QH	166	THR
41	QH	174	LYS
41	QH	175	VAL
41	QH	179	VAL
41	QH	180	VAL
41	QH	181	GLU
41	QH	184	ASN
41	QH	190	HIS
41	QH	191	GLN
41	QH	192	LEU
41	QH	193	VAL
41	QH	194	GLU
41	QH	196	THR

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Mol	Chain	Res	Type
41	QH	197	ASP
41	QH	198	GLU
41	QH	201	CYS
41	QH	207	LEU
41	QH	212	PHE
41	QH	213	ARG
41	QH	215	LEU
41	QH	216	LYS
41	QH	217	LEU
41	QH	219	THR
41	QH	221	THR
41	QH	224	ASP
41	QH	225	LEU
41	QH	228	LEU
41	QH	229	VAL
41	QH	230	SER
41	QH	232	THR
41	QH	236	VAL
41	QH	237	THR
41	QH	239	CYS
41	QH	246	LEU
41	QH	247	ASN
41	QH	249	ASP
41	QH	252	LYS
41	QH	253	LEU
41	QH	258	VAL
41	QH	263	LEU
41	QH	267	MET
41	QH	270	PHE
41	QH	275	SER
41	QH	276	ARG
41	QH	286	VAL
41	QH	290	THR
41	QH	293	MET
41	QH	295	ASP
41	QH	297	LYS
41	QH	300	MET
41	QH	304	ASP
41	QH	306	ARG
41	QH	309	ARG
41	QH	311	LEU
41	QH	316	VAL

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Mol	Chain	Res	Type
41	QH	320	ARG
41	QH	321	MET
41	QH	324	LYS
41	QH	331	LEU
41	QH	334	GLN
41	QH	336	LYS
41	QH	337	ASN
41	QH	344	TRP
41	QH	345	ILE
41	QH	347	ASN
41	QH	350	LYS
41	QH	353	VAL
41	QH	354	CYS
41	QH	355	ASP
41	QH	359	ARG
41	QH	362	LYS
41	QH	363	MET
41	QH	379	LYS
41	QH	381	ILE
41	QH	388	MET
41	QH	390	ARG
41	QH	391	ARG
41	QH	392	LYS
41	QH	399	THR
41	QH	404	ASP
41	QH	405	GLU
41	QH	406	MET
41	QH	420	SER
41	QH	421	GLU
41	QH	423	GLN
42	QI	18	ASN
42	QI	20	CYS
42	QI	26	LEU
42	QI	27	GLU
42	QI	30	ILE
42	QI	36	MET
42	QI	46	ASP
42	QI	47	ASP
42	QI	49	PHE
42	QI	62	VAL
42	QI	64	ARG
42	QI	69	ASP

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Mol	Chain	Res	Type
42	QI	70	LEU
42	QI	74	VAL
42	QI	79	ARG
42	QI	80	THR
42	QI	90	GLU
42	QI	94	THR
42	QI	96	LYS
42	QI	97	GLU
42	QI	105	ARG
42	QI	108	TYR
42	QI	112	LYS
42	QI	113	GLU
42	QI	114	LEU
42	QI	115	ILE
42	QI	116	ASP
42	QI	117	LEU
42	QI	121	ARG
42	QI	123	ARG
42	QI	128	GLN
42	QI	129	CYS
42	QI	130	THR
42	QI	132	LEU
42	QI	137	ILE
42	QI	140	SER
42	QI	152	LEU
42	QI	159	VAL
42	QI	163	LYS
42	QI	164	LYS
42	QI	188	ILE
42	QI	195	LEU
42	QI	196	GLU
42	QI	198	SER
42	QI	199	ASP
42	QI	200	CYS
42	QI	207	GLU
42	QI	209	ILE
42	QI	212	ILE
42	QI	213	CYS
42	QI	214	ARG
42	QI	215	ARG
42	QI	217	LEU
42	QI	220	GLU

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Mol	Chain	Res	Type
42	QI	223	THR
42	QI	224	TYR
42	QI	225	THR
42	QI	231	ILE
42	QI	233	GLN
42	QI	236	SER
42	QI	238	ILE
42	QI	242	LEU
42	QI	243	ARG
42	QI	248	LEU
42	QI	249	ASN
42	QI	250	VAL
42	QI	256	GLN
42	QI	265	ILE
42	QI	275	VAL
42	QI	276	ILE
42	QI	277	SER
42	QI	280	LYS
42	QI	282	TYR
42	QI	283	HIS
42	QI	284	GLU
42	QI	286	LEU
42	QI	288	VAL
42	QI	291	ILE
42	QI	293	ASN
42	QI	297	GLU
42	QI	300	ASN
42	QI	301	GLN
42	QI	303	VAL
42	QI	304	LYS
42	QI	305	CYS
42	QI	308	ARG
42	QI	309	HIS
42	QI	311	LYS
42	QI	316	CYS
42	QI	317	LEU
42	QI	320	ARG
42	QI	322	ASP
42	QI	324	VAL
42	QI	328	VAL
42	QI	332	ILE
42	QI	336	LYS

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Mol	Chain	Res	Type
42	QI	339	ARG
42	QI	342	GLN
42	QI	347	CYS
42	QI	353	VAL
42	QI	357	TYR
42	QI	361	THR
42	QI	363	VAL
42	QI	367	ASP
42	QI	375	VAL
42	QI	376	CYS
42	QI	377	MET
42	QI	384	ILE
42	QI	386	GLU
42	QI	390	ARG
42	QI	392	ASP
42	QI	393	HIS
42	QI	396	ASP
42	QI	401	LYS
42	QI	405	VAL
42	QI	417	GLU
42	QI	420	GLU
42	QI	422	ARG
42	QI	425	MET
42	QI	430	LYS
42	QI	431	ASP
42	QI	433	GLU
42	QI	434	GLU
42	QI	437	MET
41	QJ	1	MET
41	QJ	2	ARG
41	QJ	3	GLU
41	QJ	4	ILE
41	QJ	6	HIS
41	QJ	7	LEU
41	QJ	11	GLN
41	QJ	15	GLN
41	QJ	16	ILE
41	QJ	24	ILE
41	QJ	25	SER
41	QJ	39	ASP
41	QJ	42	LEU
41	QJ	43	GLN

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Mol	Chain	Res	Type
41	QJ	45	GLU
41	QJ	46	ARG
41	QJ	47	ILE
41	QJ	49	VAL
41	QJ	52	ASN
41	QJ	53	GLU
41	QJ	62	ARG
41	QJ	64	VAL
41	QJ	65	LEU
41	QJ	68	LEU
41	QJ	72	THR
41	QJ	74	ASP
41	QJ	77	ARG
41	QJ	83	GLN
41	QJ	84	ILE
41	QJ	86	ARG
41	QJ	88	ASP
41	QJ	90	PHE
41	QJ	95	SER
41	QJ	107	THR
41	QJ	111	GLU
41	QJ	114	ASP
41	QJ	118	ASP
41	QJ	119	VAL
41	QJ	120	VAL
41	QJ	121	ARG
41	QJ	123	GLU
41	QJ	125	GLU
41	QJ	127	CYS
41	QJ	129	CYS
41	QJ	131	GLN
41	QJ	135	LEU
41	QJ	147	MET
41	QJ	150	LEU
41	QJ	154	LYS
41	QJ	157	GLU
41	QJ	159	TYR
41	QJ	160	PRO
41	QJ	162	ARG
41	QJ	163	ILE
41	QJ	164	MET
41	QJ	166	THR

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Mol	Chain	Res	Type
41	QJ	170	VAL
41	QJ	174	LYS
41	QJ	176	SER
41	QJ	177	ASP
41	QJ	179	VAL
41	QJ	180	VAL
41	QJ	184	ASN
41	QJ	194	GLU
41	QJ	196	THR
41	QJ	198	GLU
41	QJ	200	TYR
41	QJ	204	ASN
41	QJ	205	GLU
41	QJ	209	ASP
41	QJ	211	CYS
41	QJ	212	PHE
41	QJ	213	ARG
41	QJ	214	THR
41	QJ	216	LYS
41	QJ	217	LEU
41	QJ	219	THR
41	QJ	222	TYR
41	QJ	234	SER
41	QJ	236	VAL
41	QJ	238	THR
41	QJ	239	CYS
41	QJ	241	ARG
41	QJ	246	LEU
41	QJ	250	LEU
41	QJ	252	LYS
41	QJ	253	LEU
41	QJ	260	PHE
41	QJ	262	ARG
41	QJ	264	HIS
41	QJ	266	PHE
41	QJ	270	PHE
41	QJ	273	LEU
41	QJ	274	THR
41	QJ	280	GLN
41	QJ	282	ARG
41	QJ	288	GLU
41	QJ	289	LEU

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Mol	Chain	Res	Type
41	QJ	292	GLN
41	QJ	293	MET
41	QJ	295	ASP
41	QJ	297	LYS
41	QJ	300	MET
41	QJ	306	ARG
41	QJ	316	VAL
41	QJ	317	PHE
41	QJ	324	LYS
41	QJ	329	GLN
41	QJ	331	LEU
41	QJ	334	GLN
41	QJ	336	LYS
41	QJ	338	SER
41	QJ	348	ASN
41	QJ	349	VAL
41	QJ	350	LYS
41	QJ	351	THR
41	QJ	353	VAL
41	QJ	355	ASP
41	QJ	356	ILE
41	QJ	359	ARG
41	QJ	361	LEU
41	QJ	362	LYS
41	QJ	363	MET
41	QJ	364	SER
41	QJ	368	ILE
41	QJ	371	SER
41	QJ	375	GLN
41	QJ	379	LYS
41	QJ	380	ARG
41	QJ	381	ILE
41	QJ	383	GLU
41	QJ	388	MET
41	QJ	389	PHE
41	QJ	390	ARG
41	QJ	392	LYS
41	QJ	397	TRP
41	QJ	404	ASP
41	QJ	418	LEU
41	QJ	419	VAL
41	QJ	420	SER

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Mol	Chain	Res	Type
41	QJ	424	GLN
41	QJ	426	GLN
42	QK	1	MET
42	QK	2	ARG
42	QK	3	GLU
42	QK	5	ILE
42	QK	7	VAL
42	QK	11	GLN
42	QK	22	GLU
42	QK	27	GLU
42	QK	30	ILE
42	QK	31	GLN
42	QK	36	MET
42	QK	51	THR
42	QK	62	VAL
42	QK	68	VAL
42	QK	69	ASP
42	QK	70	LEU
42	QK	71	GLU
42	QK	75	ILE
42	QK	77	GLU
42	QK	84	ARG
42	QK	88	HIS
42	QK	90	GLU
42	QK	92	LEU
42	QK	94	THR
42	QK	96	LYS
42	QK	109	THR
42	QK	113	GLU
42	QK	116	ASP
42	QK	117	LEU
42	QK	118	VAL
42	QK	119	LEU
42	QK	121	ARG
42	QK	123	ARG
42	QK	124	LYS
42	QK	125	LEU
42	QK	129	CYS
42	QK	130	THR
42	QK	135	PHE
42	QK	136	LEU
42	QK	140	SER

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Mol	Chain	Res	Type
42	QK	141	PHE
42	QK	152	LEU
42	QK	153	LEU
42	QK	156	ARG
42	QK	159	VAL
42	QK	163	LYS
42	QK	164	LYS
42	QK	166	LYS
42	QK	167	LEU
42	QK	168	GLU
42	QK	169	PHE
42	QK	171	ILE
42	QK	172	TYR
42	QK	179	THR
42	QK	184	PRO
42	QK	187	SER
42	QK	191	THR
42	QK	193	THR
42	QK	195	LEU
42	QK	196	GLU
42	QK	202	PHE
42	QK	204	VAL
42	QK	207	GLU
42	QK	209	ILE
42	QK	214	ARG
42	QK	215	ARG
42	QK	218	ASP
42	QK	219	ILE
42	QK	220	GLU
42	QK	230	LEU
42	QK	234	ILE
42	QK	242	LEU
42	QK	248	LEU
42	QK	254	GLU
42	QK	256	GLN
42	QK	262	TYR
42	QK	264	ARG
42	QK	275	VAL
42	QK	277	SER
42	QK	284	GLU
42	QK	301	GLN
42	QK	303	VAL

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Mol	Chain	Res	Type
42	QK	311	LYS
42	QK	323	VAL
42	QK	324	VAL
42	QK	326	LYS
42	QK	339	ARG
42	QK	343	PHE
42	QK	345	ASP
42	QK	347	CYS
42	QK	352	LYS
42	QK	356	ASN
42	QK	362	VAL
42	QK	367	ASP
42	QK	370	LYS
42	QK	375	VAL
42	QK	376	CYS
42	QK	377	MET
42	QK	381	THR
42	QK	384	ILE
42	QK	386	GLU
42	QK	388	TRP
42	QK	390	ARG
42	QK	392	ASP
42	QK	398	MET
42	QK	399	TYR
42	QK	401	LYS
42	QK	402	ARG
42	QK	411	GLU
42	QK	413	MET
42	QK	414	GLU
42	QK	419	SER
42	QK	422	ARG
42	QK	423	GLU
42	QK	424	ASP
42	QK	425	MET
42	QK	429	GLU
42	QK	430	LYS
42	QK	432	TYR
42	QK	437	MET
42	QK	438	ASP
41	QL	2	ARG
41	QL	4	ILE
41	QL	5	VAL

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Mol	Chain	Res	Type
41	QL	7	LEU
41	QL	8	GLN
41	QL	16	ILE
41	QL	19	LYS
41	QL	22	GLU
41	QL	33	THR
41	QL	35	THR
41	QL	42	LEU
41	QL	44	LEU
41	QL	45	GLU
41	QL	46	ARG
41	QL	47	ILE
41	QL	49	VAL
41	QL	55	THR
41	QL	65	LEU
41	QL	68	LEU
41	QL	74	ASP
41	QL	77	ARG
41	QL	78	SER
41	QL	88	ASP
41	QL	94	GLN
41	QL	100	ASN
41	QL	105	HIS
41	QL	106	TYR
41	QL	112	LEU
41	QL	115	SER
41	QL	117	LEU
41	QL	118	ASP
41	QL	119	VAL
41	QL	126	SER
41	QL	127	CYS
41	QL	133	PHE
41	QL	135	LEU
41	QL	139	LEU
41	QL	150	LEU
41	QL	151	LEU
41	QL	155	ILE
41	QL	157	GLU
41	QL	161	ASP
41	QL	162	ARG
41	QL	163	ILE
41	QL	164	MET

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Mol	Chain	Res	Type
41	QL	167	PHE
41	QL	172	SER
41	QL	177	ASP
41	QL	189	VAL
41	QL	190	HIS
41	QL	192	LEU
41	QL	194	GLU
41	QL	199	THR
41	QL	200	TYR
41	QL	205	GLU
41	QL	209	ASP
41	QL	212	PHE
41	QL	213	ARG
41	QL	214	THR
41	QL	216	LYS
41	QL	217	LEU
41	QL	218	THR
41	QL	219	THR
41	QL	224	ASP
41	QL	229	VAL
41	QL	238	THR
41	QL	240	LEU
41	QL	250	LEU
41	QL	251	ARG
41	QL	252	LYS
41	QL	257	MET
41	QL	262	ARG
41	QL	263	LEU
41	QL	266	PHE
41	QL	273	LEU
41	QL	274	THR
41	QL	279	GLN
41	QL	280	GLN
41	QL	282	ARG
41	QL	295	ASP
41	QL	299	MET
41	QL	300	MET
41	QL	303	CYS
41	QL	306	ARG
41	QL	309	ARG
41	QL	311	LEU
41	QL	313	VAL

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Mol	Chain	Res	Type
41	QL	317	PHE
41	QL	318	ARG
41	QL	320	ARG
41	QL	321	MET
41	QL	323	MET
41	QL	324	LYS
41	QL	325	GLU
41	QL	329	GLN
41	QL	332	ASN
41	QL	333	VAL
41	QL	335	ASN
41	QL	336	LYS
41	QL	337	ASN
41	QL	342	VAL
41	QL	345	ILE
41	QL	348	ASN
41	QL	349	VAL
41	QL	350	LYS
41	QL	353	VAL
41	QL	355	ASP
41	QL	361	LEU
41	QL	362	LYS
41	QL	364	SER
41	QL	375	GLN
41	QL	388	MET
41	QL	390	ARG
41	QL	391	ARG
41	QL	392	LYS
41	QL	399	THR
41	QL	401	GLU
41	QL	404	ASP
41	QL	406	MET
41	QL	407	GLU
41	QL	410	GLU
41	QL	415	MET
41	QL	416	ASN
41	QL	420	SER
41	QL	425	TYR
42	RC	221	ARG
42	RC	373	ARG
41	RD	3	GLU
41	RD	4	ILE

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Mol	Chain	Res	Type
41	RD	7	LEU
41	RD	8	GLN
41	RD	11	GLN
41	RD	12	CYS
41	RD	22	GLU
41	RD	28	HIS
41	RD	31	ASP
41	RD	39	ASP
41	RD	42	LEU
41	RD	43	GLN
41	RD	44	LEU
41	RD	45	GLU
41	RD	46	ARG
41	RD	58	LYS
41	RD	66	VAL
41	RD	73	MET
41	RD	74	ASP
41	RD	77	ARG
41	RD	83	GLN
41	RD	84	ILE
41	RD	86	ARG
41	RD	88	ASP
41	RD	90	PHE
41	RD	95	SER
41	RD	103	LYS
41	RD	108	GLU
41	RD	114	ASP
41	RD	118	ASP
41	RD	119	VAL
41	RD	122	LYS
41	RD	123	GLU
41	RD	125	GLU
41	RD	131	GLN
41	RD	135	LEU
41	RD	143	THR
41	RD	147	MET
41	RD	149	THR
41	RD	151	LEU
41	RD	152	ILE
41	RD	154	LYS
41	RD	156	ARG
41	RD	161	ASP

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Mol	Chain	Res	Type
41	RD	162	ARG
41	RD	164	MET
41	RD	168	SER
41	RD	170	VAL
41	RD	174	LYS
41	RD	175	VAL
41	RD	176	SER
41	RD	184	ASN
41	RD	186	THR
41	RD	188	SER
41	RD	189	VAL
41	RD	190	HIS
41	RD	194	GLU
41	RD	201	CYS
41	RD	202	ILE
41	RD	203	ASP
41	RD	209	ASP
41	RD	210	ILE
41	RD	212	PHE
41	RD	213	ARG
41	RD	216	LYS
41	RD	217	LEU
41	RD	218	THR
41	RD	219	THR
41	RD	222	TYR
41	RD	225	LEU
41	RD	227	HIS
41	RD	228	LEU
41	RD	230	SER
41	RD	232	THR
41	RD	233	MET
41	RD	236	VAL
41	RD	240	LEU
41	RD	241	ARG
41	RD	249	ASP
41	RD	257	MET
41	RD	262	ARG
41	RD	263	LEU
41	RD	264	HIS
41	RD	266	PHE
41	RD	270	PHE
41	RD	273	LEU

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Mol	Chain	Res	Type
41	RD	274	THR
41	RD	275	SER
41	RD	280	GLN
41	RD	282	ARG
41	RD	284	LEU
41	RD	285	THR
41	RD	286	VAL
41	RD	293	MET
41	RD	295	ASP
41	RD	299	MET
41	RD	300	MET
41	RD	312	THR
41	RD	313	VAL
41	RD	316	VAL
41	RD	318	ARG
41	RD	320	ARG
41	RD	321	MET
41	RD	324	LYS
41	RD	329	GLN
41	RD	330	MET
41	RD	331	LEU
41	RD	336	LYS
41	RD	343	GLU
41	RD	350	LYS
41	RD	359	ARG
41	RD	362	LYS
41	RD	363	MET
41	RD	367	PHE
41	RD	368	ILE
41	RD	372	THR
41	RD	375	GLN
41	RD	376	GLU
41	RD	378	PHE
41	RD	379	LYS
41	RD	380	ARG
41	RD	382	SER
41	RD	383	GLU
41	RD	388	MET
41	RD	390	ARG
41	RD	392	LYS
41	RD	395	LEU
41	RD	396	HIS

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Mol	Chain	Res	Type
41	RD	403	MET
41	RD	404	ASP
41	RD	405	GLU
41	RD	406	MET
41	RD	407	GLU
41	RD	410	GLU
41	RD	415	MET
41	RD	419	VAL
41	RD	427	ASP
42	RE	84	ARG
41	RF	1	MET
41	RF	2	ARG
41	RF	7	LEU
41	RF	8	GLN
41	RF	11	GLN
41	RF	12	CYS
41	RF	16	ILE
41	RF	19	LYS
41	RF	26	ASP
41	RF	27	GLU
41	RF	30	ILE
41	RF	39	ASP
41	RF	41	ASP
41	RF	42	LEU
41	RF	58	LYS
41	RF	60	VAL
41	RF	62	ARG
41	RF	65	LEU
41	RF	72	THR
41	RF	73	MET
41	RF	74	ASP
41	RF	76	VAL
41	RF	83	GLN
41	RF	84	ILE
41	RF	86	ARG
41	RF	88	ASP
41	RF	100	ASN
41	RF	106	TYR
41	RF	114	ASP
41	RF	118	ASP
41	RF	122	LYS
41	RF	125	GLU

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Mol	Chain	Res	Type
41	RF	128	ASP
41	RF	129	CYS
41	RF	135	LEU
41	RF	137	HIS
41	RF	143	THR
41	RF	147	MET
41	RF	149	THR
41	RF	150	LEU
41	RF	154	LYS
41	RF	156	ARG
41	RF	157	GLU
41	RF	158	GLU
41	RF	163	ILE
41	RF	164	MET
41	RF	167	PHE
41	RF	168	SER
41	RF	170	VAL
41	RF	174	LYS
41	RF	175	VAL
41	RF	177	ASP
41	RF	179	VAL
41	RF	180	VAL
41	RF	184	ASN
41	RF	189	VAL
41	RF	191	GLN
41	RF	194	GLU
41	RF	197	ASP
41	RF	202	ILE
41	RF	204	ASN
41	RF	209	ASP
41	RF	212	PHE
41	RF	213	ARG
41	RF	215	LEU
41	RF	216	LYS
41	RF	217	LEU
41	RF	218	THR
41	RF	219	THR
41	RF	222	TYR
41	RF	224	ASP
41	RF	225	LEU
41	RF	228	LEU
41	RF	229	VAL

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Mol	Chain	Res	Type
41	RF	232	THR
41	RF	238	THR
41	RF	239	CYS
41	RF	247	ASN
41	RF	250	LEU
41	RF	251	ARG
41	RF	252	LYS
41	RF	257	MET
41	RF	262	ARG
41	RF	263	LEU
41	RF	264	HIS
41	RF	267	MET
41	RF	274	THR
41	RF	276	ARG
41	RF	284	LEU
41	RF	288	GLU
41	RF	290	THR
41	RF	295	ASP
41	RF	297	LYS
41	RF	306	ARG
41	RF	309	ARG
41	RF	310	TYR
41	RF	312	THR
41	RF	313	VAL
41	RF	316	VAL
41	RF	320	ARG
41	RF	324	LYS
41	RF	326	VAL
41	RF	330	MET
41	RF	331	LEU
41	RF	332	ASN
41	RF	336	LYS
41	RF	337	ASN
41	RF	339	SER
41	RF	343	GLU
41	RF	344	TRP
41	RF	348	ASN
41	RF	349	VAL
41	RF	350	LYS
41	RF	353	VAL
41	RF	354	CYS
41	RF	355	ASP

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Mol	Chain	Res	Type
41	RF	356	ILE
41	RF	359	ARG
41	RF	361	LEU
41	RF	362	LYS
41	RF	363	MET
41	RF	364	SER
41	RF	367	PHE
41	RF	374	ILE
41	RF	375	GLN
41	RF	376	GLU
41	RF	378	PHE
41	RF	379	LYS
41	RF	380	ARG
41	RF	384	GLN
41	RF	388	MET
41	RF	389	PHE
41	RF	390	ARG
41	RF	395	LEU
41	RF	396	HIS
41	RF	397	TRP
41	RF	398	TYR
41	RF	401	GLU
41	RF	404	ASP
41	RF	405	GLU
41	RF	406	MET
41	RF	407	GLU
41	RF	409	THR
41	RF	410	GLU
41	RF	413	SER
41	RF	415	MET
41	RF	418	LEU
41	RF	421	GLU
41	RF	423	GLN
41	RF	424	GLN
41	RF	425	TYR
41	RF	427	ASP
42	RG	326	LYS
42	RG	373	ARG
41	RH	291	GLN
42	RI	84	ARG
41	RJ	1	MET
41	RJ	2	ARG

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Mol	Chain	Res	Type
41	RJ	3	GLU
41	RJ	6	HIS
41	RJ	7	LEU
41	RJ	15	GLN
41	RJ	19	LYS
41	RJ	22	GLU
41	RJ	23	VAL
41	RJ	31	ASP
41	RJ	33	THR
41	RJ	40	SER
41	RJ	41	ASP
41	RJ	42	LEU
41	RJ	45	GLU
41	RJ	55	THR
41	RJ	60	VAL
41	RJ	66	VAL
41	RJ	72	THR
41	RJ	73	MET
41	RJ	74	ASP
41	RJ	75	SER
41	RJ	77	ARG
41	RJ	84	ILE
41	RJ	88	ASP
41	RJ	90	PHE
41	RJ	99	ASN
41	RJ	100	ASN
41	RJ	103	LYS
41	RJ	107	THR
41	RJ	108	GLU
41	RJ	114	ASP
41	RJ	121	ARG
41	RJ	125	GLU
41	RJ	127	CYS
41	RJ	130	LEU
41	RJ	135	LEU
41	RJ	136	THR
41	RJ	147	MET
41	RJ	152	ILE
41	RJ	154	LYS
41	RJ	156	ARG
41	RJ	162	ARG
41	RJ	164	MET

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Mol	Chain	Res	Type
41	RJ	166	THR
41	RJ	170	VAL
41	RJ	174	LYS
41	RJ	177	ASP
41	RJ	179	VAL
41	RJ	180	VAL
41	RJ	182	PRO
41	RJ	193	VAL
41	RJ	201	CYS
41	RJ	204	ASN
41	RJ	211	CYS
41	RJ	212	PHE
41	RJ	215	LEU
41	RJ	216	LYS
41	RJ	217	LEU
41	RJ	221	THR
41	RJ	222	TYR
41	RJ	227	HIS
41	RJ	228	LEU
41	RJ	233	MET
41	RJ	238	THR
41	RJ	240	LEU
41	RJ	250	LEU
41	RJ	252	LYS
41	RJ	253	LEU
41	RJ	263	LEU
41	RJ	264	HIS
41	RJ	267	MET
41	RJ	270	PHE
41	RJ	273	LEU
41	RJ	274	THR
41	RJ	275	SER
41	RJ	276	ARG
41	RJ	278	SER
41	RJ	282	ARG
41	RJ	284	LEU
41	RJ	291	GLN
41	RJ	292	GLN
41	RJ	297	LYS
41	RJ	299	MET
41	RJ	300	MET
41	RJ	306	ARG

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Mol	Chain	Res	Type
41	RJ	309	ARG
41	RJ	310	TYR
41	RJ	311	LEU
41	RJ	312	THR
41	RJ	313	VAL
41	RJ	321	MET
41	RJ	322	SER
41	RJ	323	MET
41	RJ	329	GLN
41	RJ	330	MET
41	RJ	331	LEU
41	RJ	335	ASN
41	RJ	336	LYS
41	RJ	337	ASN
41	RJ	339	SER
41	RJ	340	TYR
41	RJ	341	PHE
41	RJ	342	VAL
41	RJ	344	TRP
41	RJ	345	ILE
41	RJ	348	ASN
41	RJ	350	LYS
41	RJ	351	THR
41	RJ	353	VAL
41	RJ	355	ASP
41	RJ	361	LEU
41	RJ	362	LYS
41	RJ	364	SER
41	RJ	367	PHE
41	RJ	368	ILE
41	RJ	374	ILE
41	RJ	375	GLN
41	RJ	376	GLU
41	RJ	378	PHE
41	RJ	379	LYS
41	RJ	380	ARG
41	RJ	381	ILE
41	RJ	388	MET
41	RJ	391	ARG
41	RJ	406	MET
41	RJ	410	GLU
41	RJ	419	VAL

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Mol	Chain	Res	Type
41	RJ	424	GLN
42	RK	84	ARG
41	RL	46	ARG
41	RL	204	ASN
42	SC	326	LYS
42	SC	380	ASN
41	SD	347	ASN
42	SE	1	MET
42	SE	2	ARG
42	SE	9	VAL
42	SE	23	LEU
42	SE	31	GLN
42	SE	35	GLN
42	SE	49	PHE
42	SE	52	PHE
42	SE	55	GLU
42	SE	66	VAL
42	SE	68	VAL
42	SE	70	LEU
42	SE	75	ILE
42	SE	82	THR
42	SE	85	GLN
42	SE	91	GLN
42	SE	102	ASN
42	SE	112	LYS
42	SE	114	LEU
42	SE	116	ASP
42	SE	119	LEU
42	SE	122	ILE
42	SE	124	LYS
42	SE	127	ASP
42	SE	129	CYS
42	SE	132	LEU
42	SE	133	GLN
42	SE	136	LEU
42	SE	139	HIS
42	SE	145	THR
42	SE	151	SER
42	SE	155	GLU
42	SE	163	LYS
42	SE	164	LYS
42	SE	168	GLU

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Mol	Chain	Res	Type
42	SE	170	SER
42	SE	178	SER
42	SE	186	ASN
42	SE	188	ILE
42	SE	195	LEU
42	SE	196	GLU
42	SE	197	HIS
42	SE	198	SER
42	SE	199	ASP
42	SE	204	VAL
42	SE	205	ASP
42	SE	206	ASN
42	SE	211	ASP
42	SE	213	CYS
42	SE	214	ARG
42	SE	215	ARG
42	SE	224	TYR
42	SE	225	THR
42	SE	226	ASN
42	SE	229	ARG
42	SE	231	ILE
42	SE	233	GLN
42	SE	243	ARG
42	SE	248	LEU
42	SE	251	ASP
42	SE	255	PHE
42	SE	259	LEU
42	SE	260	VAL
42	SE	275	VAL
42	SE	276	ILE
42	SE	284	GLU
42	SE	286	LEU
42	SE	287	SER
42	SE	290	GLU
42	SE	291	ILE
42	SE	295	CYS
42	SE	311	LYS
42	SE	313	MET
42	SE	317	LEU
42	SE	323	VAL
42	SE	326	LYS
42	SE	327	ASP

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Mol	Chain	Res	Type
42	SE	338	LYS
42	SE	339	ARG
42	SE	341	ILE
42	SE	343	PHE
42	SE	344	VAL
42	SE	356	ASN
42	SE	361	THR
42	SE	362	VAL
42	SE	363	VAL
42	SE	368	LEU
42	SE	370	LYS
42	SE	371	VAL
42	SE	373	ARG
42	SE	377	MET
42	SE	384	ILE
42	SE	390	ARG
42	SE	394	LYS
42	SE	401	LYS
42	SE	409	VAL
42	SE	413	MET
42	SE	415	GLU
42	SE	423	GLU
42	SE	424	ASP
42	SE	425	MET
42	SE	428	LEU
42	SE	430	LYS
42	SE	433	GLU
42	SE	434	GLU
42	SE	437	MET
41	SF	2	ARG
41	SF	8	GLN
41	SF	12	CYS
41	SF	14	ASN
41	SF	19	LYS
41	SF	26	ASP
41	SF	28	HIS
41	SF	30	ILE
41	SF	31	ASP
41	SF	35	THR
41	SF	39	ASP
41	SF	44	LEU
41	SF	45	GLU

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Mol	Chain	Res	Type
41	SF	46	ARG
41	SF	47	ILE
41	SF	55	THR
41	SF	58	LYS
41	SF	60	VAL
41	SF	64	VAL
41	SF	65	LEU
41	SF	69	GLU
41	SF	72	THR
41	SF	74	ASP
41	SF	77	ARG
41	SF	78	SER
41	SF	83	GLN
41	SF	84	ILE
41	SF	86	ARG
41	SF	90	PHE
41	SF	94	GLN
41	SF	117	LEU
41	SF	118	ASP
41	SF	119	VAL
41	SF	121	ARG
41	SF	125	GLU
41	SF	128	ASP
41	SF	130	LEU
41	SF	134	GLN
41	SF	137	HIS
41	SF	139	LEU
41	SF	143	THR
41	SF	150	LEU
41	SF	153	SER
41	SF	154	LYS
41	SF	155	ILE
41	SF	156	ARG
41	SF	161	ASP
41	SF	164	MET
41	SF	167	PHE
41	SF	169	VAL
41	SF	170	VAL
41	SF	174	LYS
41	SF	175	VAL
41	SF	181	GLU
41	SF	187	LEU

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Mol	Chain	Res	Type
41	SF	194	GLU
41	SF	195	ASN
41	SF	198	GLU
41	SF	199	THR
41	SF	205	GLU
41	SF	210	ILE
41	SF	213	ARG
41	SF	225	LEU
41	SF	226	ASN
41	SF	228	LEU
41	SF	229	VAL
41	SF	237	THR
41	SF	240	LEU
41	SF	241	ARG
41	SF	246	LEU
41	SF	251	ARG
41	SF	256	ASN
41	SF	262	ARG
41	SF	267	MET
41	SF	273	LEU
41	SF	274	THR
41	SF	275	SER
41	SF	282	ARG
41	SF	284	LEU
41	SF	288	GLU
41	SF	290	THR
41	SF	291	GLN
41	SF	297	LYS
41	SF	298	ASN
41	SF	300	MET
41	SF	303	CYS
41	SF	312	THR
41	SF	316	VAL
41	SF	323	MET
41	SF	324	LYS
41	SF	332	ASN
41	SF	335	ASN
41	SF	336	LYS
41	SF	338	SER
41	SF	340	TYR
41	SF	343	GLU
41	SF	349	VAL

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Mol	Chain	Res	Type
41	SF	354	CYS
41	SF	355	ASP
41	SF	356	ILE
41	SF	361	LEU
41	SF	364	SER
41	SF	366	THR
41	SF	372	THR
41	SF	375	GLN
41	SF	377	LEU
41	SF	380	ARG
41	SF	384	GLN
41	SF	392	LYS
41	SF	395	LEU
41	SF	396	HIS
41	SF	403	MET
41	SF	404	ASP
41	SF	406	MET
41	SF	407	GLU
41	SF	410	GLU
41	SF	412	GLU
41	SF	415	MET
41	SF	417	ASP
41	SF	421	GLU
41	SF	427	ASP
42	SG	60	LYS
41	SH	336	LYS
42	SI	1	MET
42	SI	4	CYS
42	SI	5	ILE
42	SI	7	VAL
42	SI	26	LEU
42	SI	32	PRO
42	SI	35	GLN
42	SI	36	MET
42	SI	49	PHE
42	SI	54	SER
42	SI	68	VAL
42	SI	70	LEU
42	SI	71	GLU
42	SI	77	GLU
42	SI	79	ARG
42	SI	84	ARG

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Mol	Chain	Res	Type
42	SI	87	PHE
42	SI	92	LEU
42	SI	93	ILE
42	SI	94	THR
42	SI	96	LYS
42	SI	97	GLU
42	SI	105	ARG
42	SI	109	THR
42	SI	110	ILE
42	SI	112	LYS
42	SI	114	LEU
42	SI	115	ILE
42	SI	122	ILE
42	SI	124	LYS
42	SI	125	LEU
42	SI	128	GLN
42	SI	130	THR
42	SI	133	GLN
42	SI	135	PHE
42	SI	137	ILE
42	SI	141	PHE
42	SI	150	THR
42	SI	153	LEU
42	SI	154	MET
42	SI	156	ARG
42	SI	163	LYS
42	SI	164	LYS
42	SI	165	SER
42	SI	167	LEU
42	SI	168	GLU
42	SI	171	ILE
42	SI	178	SER
42	SI	182	VAL
42	SI	186	ASN
42	SI	192	HIS
42	SI	195	LEU
42	SI	199	ASP
42	SI	205	ASP
42	SI	212	ILE
42	SI	214	ARG
42	SI	215	ARG
42	SI	217	LEU

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Mol	Chain	Res	Type
42	SI	218	ASP
42	SI	219	ILE
42	SI	221	ARG
42	SI	223	THR
42	SI	224	TYR
42	SI	225	THR
42	SI	227	LEU
42	SI	229	ARG
42	SI	230	LEU
42	SI	237	SER
42	SI	244	PHE
42	SI	248	LEU
42	SI	249	ASN
42	SI	250	VAL
42	SI	251	ASP
42	SI	252	LEU
42	SI	254	GLU
42	SI	257	THR
42	SI	259	LEU
42	SI	260	VAL
42	SI	264	ARG
42	SI	265	ILE
42	SI	271	THR
42	SI	275	VAL
42	SI	276	ILE
42	SI	277	SER
42	SI	280	LYS
42	SI	283	HIS
42	SI	284	GLU
42	SI	285	GLN
42	SI	286	LEU
42	SI	287	SER
42	SI	302	MET
42	SI	308	ARG
42	SI	315	CYS
42	SI	317	LEU
42	SI	323	VAL
42	SI	324	VAL
42	SI	326	LYS
42	SI	328	VAL
42	SI	332	ILE
42	SI	335	ILE

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Mol	Chain	Res	Type
42	SI	337	THR
42	SI	339	ARG
42	SI	344	VAL
42	SI	345	ASP
42	SI	351	PHE
42	SI	352	LYS
42	SI	356	ASN
42	SI	358	GLN
42	SI	362	VAL
42	SI	367	ASP
42	SI	368	LEU
42	SI	370	LYS
42	SI	373	ARG
42	SI	375	VAL
42	SI	381	THR
42	SI	390	ARG
42	SI	391	LEU
42	SI	396	ASP
42	SI	397	LEU
42	SI	401	LYS
42	SI	402	ARG
42	SI	411	GLU
42	SI	413	MET
42	SI	414	GLU
42	SI	417	GLU
42	SI	420	GLU
42	SI	422	ARG
42	SI	428	LEU
42	SI	430	LYS
42	SI	432	TYR
42	SI	434	GLU
42	SI	437	MET
41	SJ	2	ARG
41	SJ	165	ASN
41	SJ	213	ARG
41	SJ	337	ASN
41	SJ	362	LYS
42	SK	64	ARG
41	SL	1	MET
41	SL	2	ARG
41	SL	3	GLU
41	SL	8	GLN

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Mol	Chain	Res	Type
41	SL	15	GLN
41	SL	16	ILE
41	SL	19	LYS
41	SL	23	VAL
41	SL	24	ILE
41	SL	26	ASP
41	SL	27	GLU
41	SL	31	ASP
41	SL	32	PRO
41	SL	42	LEU
41	SL	49	VAL
41	SL	52	ASN
41	SL	53	GLU
41	SL	55	THR
41	SL	58	LYS
41	SL	64	VAL
41	SL	66	VAL
41	SL	72	THR
41	SL	73	MET
41	SL	74	ASP
41	SL	83	GLN
41	SL	84	ILE
41	SL	86	ARG
41	SL	88	ASP
41	SL	90	PHE
41	SL	95	SER
41	SL	103	LYS
41	SL	112	LEU
41	SL	117	LEU
41	SL	121	ARG
41	SL	122	LYS
41	SL	128	ASP
41	SL	129	CYS
41	SL	130	LEU
41	SL	134	GLN
41	SL	135	LEU
41	SL	152	ILE
41	SL	153	SER
41	SL	154	LYS
41	SL	157	GLU
41	SL	165	ASN
41	SL	170	VAL

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Mol	Chain	Res	Type
41	SL	172	SER
41	SL	174	LYS
41	SL	176	SER
41	SL	178	THR
41	SL	180	VAL
41	SL	186	THR
41	SL	187	LEU
41	SL	191	GLN
41	SL	194	GLU
41	SL	196	THR
41	SL	197	ASP
41	SL	198	GLU
41	SL	202	ILE
41	SL	205	GLU
41	SL	207	LEU
41	SL	212	PHE
41	SL	213	ARG
41	SL	215	LEU
41	SL	225	LEU
41	SL	233	MET
41	SL	237	THR
41	SL	239	CYS
41	SL	240	LEU
41	SL	241	ARG
41	SL	246	LEU
41	SL	247	ASN
41	SL	251	ARG
41	SL	252	LYS
41	SL	253	LEU
41	SL	257	MET
41	SL	258	VAL
41	SL	266	PHE
41	SL	267	MET
41	SL	275	SER
41	SL	276	ARG
41	SL	279	GLN
41	SL	280	GLN
41	SL	284	LEU
41	SL	288	GLU
41	SL	292	GLN
41	SL	293	MET
41	SL	295	ASP

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Mol	Chain	Res	Type
41	SL	297	LYS
41	SL	299	MET
41	SL	300	MET
41	SL	306	ARG
41	SL	310	TYR
41	SL	321	MET
41	SL	322	SER
41	SL	328	GLU
41	SL	331	LEU
41	SL	335	ASN
41	SL	336	LYS
41	SL	347	ASN
41	SL	349	VAL
41	SL	350	LYS
41	SL	351	THR
41	SL	354	CYS
41	SL	355	ASP
41	SL	356	ILE
41	SL	359	ARG
41	SL	361	LEU
41	SL	362	LYS
41	SL	363	MET
41	SL	364	SER
41	SL	368	ILE
41	SL	374	ILE
41	SL	377	LEU
41	SL	379	LYS
41	SL	380	ARG
41	SL	382	SER
41	SL	390	ARG
41	SL	391	ARG
41	SL	392	LYS
41	SL	404	ASP
41	SL	405	GLU
41	SL	406	MET
41	SL	409	THR
41	SL	410	GLU
41	SL	421	GLU
41	SL	426	GLN
42	SM	226	ASN
42	SM	339	ARG
42	TC	156	ARG

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Mol	Chain	Res	Type
41	TD	2	ARG
41	TD	282	ARG
42	TE	285	GLN
41	TH	251	ARG
41	TH	252	LYS
41	TH	253	LEU
41	TH	337	ASN
42	TI	1	MET
42	TI	2	ARG
42	TI	4	CYS
42	TI	9	VAL
42	TI	25	CYS
42	TI	26	LEU
42	TI	28	HIS
42	TI	35	GLN
42	TI	49	PHE
42	TI	55	GLU
42	TI	64	ARG
42	TI	66	VAL
42	TI	74	VAL
42	TI	75	ILE
42	TI	80	THR
42	TI	85	GLN
42	TI	87	PHE
42	TI	88	HIS
42	TI	101	ASN
42	TI	110	ILE
42	TI	112	LYS
42	TI	116	ASP
42	TI	117	LEU
42	TI	118	VAL
42	TI	119	LEU
42	TI	123	ARG
42	TI	124	LYS
42	TI	130	THR
42	TI	132	LEU
42	TI	133	GLN
42	TI	136	LEU
42	TI	137	ILE
42	TI	145	THR
42	TI	149	PHE
42	TI	150	THR

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Mol	Chain	Res	Type
42	TI	155	GLU
42	TI	157	LEU
42	TI	159	VAL
42	TI	161	TYR
42	TI	163	LYS
42	TI	164	LYS
42	TI	165	SER
42	TI	166	LYS
42	TI	182	VAL
42	TI	183	GLU
42	TI	185	TYR
42	TI	187	SER
42	TI	188	ILE
42	TI	189	LEU
42	TI	192	HIS
42	TI	195	LEU
42	TI	196	GLU
42	TI	202	PHE
42	TI	203	MET
42	TI	205	ASP
42	TI	209	ILE
42	TI	211	ASP
42	TI	212	ILE
42	TI	214	ARG
42	TI	219	ILE
42	TI	221	ARG
42	TI	224	TYR
42	TI	228	ASN
42	TI	237	SER
42	TI	241	SER
42	TI	242	LEU
42	TI	243	ARG
42	TI	244	PHE
42	TI	248	LEU
42	TI	249	ASN
42	TI	250	VAL
42	TI	251	ASP
42	TI	255	PHE
42	TI	256	GLN
42	TI	259	LEU
42	TI	260	VAL
42	TI	264	ARG

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Mol	Chain	Res	Type
42	TI	269	LEU
42	TI	271	THR
42	TI	275	VAL
42	TI	279	GLU
42	TI	285	GLN
42	TI	286	LEU
42	TI	291	ILE
42	TI	295	CYS
42	TI	302	MET
42	TI	304	LYS
42	TI	305	CYS
42	TI	306	ASP
42	TI	308	ARG
42	TI	317	LEU
42	TI	323	VAL
42	TI	326	LYS
42	TI	335	ILE
42	TI	339	ARG
42	TI	340	THR
42	TI	343	PHE
42	TI	349	THR
42	TI	351	PHE
42	TI	362	VAL
42	TI	367	ASP
42	TI	370	LYS
42	TI	372	GLN
42	TI	373	ARG
42	TI	375	VAL
42	TI	377	MET
42	TI	378	LEU
42	TI	390	ARG
42	TI	394	LYS
42	TI	401	LYS
42	TI	402	ARG
42	TI	405	VAL
42	TI	417	GLU
42	TI	422	ARG
42	TI	425	MET
42	TI	428	LEU
42	TI	430	LYS
42	TI	431	ASP
42	TI	432	TYR

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Mol	Chain	Res	Type
42	TI	433	GLU
42	TI	434	GLU
42	TI	437	MET
42	TI	439	SER
42	TI	440	VAL
41	TJ	24	ILE
41	TJ	28	HIS
41	TJ	30	ILE
41	TJ	31	ASP
41	TJ	32	PRO
41	TJ	355	ASP
41	TJ	359	ARG
41	TJ	362	LYS
41	TJ	363	MET
42	TK	1	MET
42	TK	3	GLU
42	TK	6	SER
42	TK	7	VAL
42	TK	20	CYS
42	TK	26	LEU
42	TK	30	ILE
42	TK	47	ASP
42	TK	49	PHE
42	TK	50	ASN
42	TK	55	GLU
42	TK	56	THR
42	TK	62	VAL
42	TK	68	VAL
42	TK	75	ILE
42	TK	79	ARG
42	TK	80	THR
42	TK	84	ARG
42	TK	85	GLN
42	TK	86	LEU
42	TK	91	GLN
42	TK	92	LEU
42	TK	96	LYS
42	TK	98	ASP
42	TK	102	ASN
42	TK	105	ARG
42	TK	109	THR
42	TK	114	LEU

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Mol	Chain	Res	Type
42	TK	115	ILE
42	TK	119	LEU
42	TK	124	LYS
42	TK	130	THR
42	TK	132	LEU
42	TK	133	GLN
42	TK	137	ILE
42	TK	141	PHE
42	TK	147	SER
42	TK	150	THR
42	TK	153	LEU
42	TK	154	MET
42	TK	159	VAL
42	TK	160	ASP
42	TK	163	LYS
42	TK	165	SER
42	TK	166	LYS
42	TK	169	PHE
42	TK	183	GLU
42	TK	191	THR
42	TK	198	SER
42	TK	200	CYS
42	TK	203	MET
42	TK	204	VAL
42	TK	214	ARG
42	TK	217	LEU
42	TK	219	ILE
42	TK	220	GLU
42	TK	221	ARG
42	TK	222	PRO
42	TK	223	THR
42	TK	224	TYR
42	TK	225	THR
42	TK	231	ILE
42	TK	242	LEU
42	TK	248	LEU
42	TK	253	THR
42	TK	259	LEU
42	TK	264	ARG
42	TK	265	ILE
42	TK	271	THR
42	TK	275	VAL

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Mol	Chain	Res	Type
42	TK	276	ILE
42	TK	277	SER
42	TK	280	LYS
42	TK	284	GLU
42	TK	286	LEU
42	TK	287	SER
42	TK	291	ILE
42	TK	303	VAL
42	TK	306	ASP
42	TK	308	ARG
42	TK	309	HIS
42	TK	311	LYS
42	TK	313	MET
42	TK	318	LEU
42	TK	320	ARG
42	TK	323	VAL
42	TK	324	VAL
42	TK	326	LYS
42	TK	336	LYS
42	TK	338	LYS
42	TK	339	ARG
42	TK	341	ILE
42	TK	343	PHE
42	TK	347	CYS
42	TK	351	PHE
42	TK	352	LYS
42	TK	362	VAL
42	TK	367	ASP
42	TK	370	LYS
42	TK	371	VAL
42	TK	378	LEU
42	TK	384	ILE
42	TK	386	GLU
42	TK	390	ARG
42	TK	391	LEU
42	TK	393	HIS
42	TK	402	ARG
42	TK	411	GLU
42	TK	422	ARG
42	TK	423	GLU
42	TK	425	MET
42	TK	430	LYS

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Mol	Chain	Res	Type
42	TK	431	ASP
42	TK	432	TYR
42	TK	435	VAL
42	TK	438	ASP
42	TK	440	VAL
42	TM	2	ARG
42	TM	339	ARG
42	UC	1	MET
42	UC	2	ARG
42	UC	3	GLU
42	UC	4	CYS
42	UC	6	SER
42	UC	20	CYS
42	UC	25	CYS
42	UC	26	LEU
42	UC	30	ILE
42	UC	36	MET
42	UC	49	PHE
42	UC	54	SER
42	UC	56	THR
42	UC	60	LYS
42	UC	62	VAL
42	UC	64	ARG
42	UC	68	VAL
42	UC	70	LEU
42	UC	71	GLU
42	UC	75	ILE
42	UC	76	ASP
42	UC	77	GLU
42	UC	79	ARG
42	UC	80	THR
42	UC	82	THR
42	UC	84	ARG
42	UC	85	GLN
42	UC	98	ASP
42	UC	109	THR
42	UC	112	LYS
42	UC	119	LEU
42	UC	121	ARG
42	UC	130	THR
42	UC	140	SER
42	UC	141	PHE

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Mol	Chain	Res	Type
42	UC	145	THR
42	UC	153	LEU
42	UC	154	MET
42	UC	159	VAL
42	UC	163	LYS
42	UC	164	LYS
42	UC	166	LYS
42	UC	170	SER
42	UC	171	ILE
42	UC	176	GLN
42	UC	182	VAL
42	UC	195	LEU
42	UC	204	VAL
42	UC	205	ASP
42	UC	214	ARG
42	UC	218	ASP
42	UC	219	ILE
42	UC	221	ARG
42	UC	224	TYR
42	UC	226	ASN
42	UC	229	ARG
42	UC	230	LEU
42	UC	231	ILE
42	UC	233	GLN
42	UC	234	ILE
42	UC	237	SER
42	UC	238	ILE
42	UC	242	LEU
42	UC	243	ARG
42	UC	245	ASP
42	UC	249	ASN
42	UC	250	VAL
42	UC	254	GLU
42	UC	259	LEU
42	UC	271	THR
42	UC	275	VAL
42	UC	277	SER
42	UC	279	GLU
42	UC	284	GLU
42	UC	291	ILE
42	UC	295	CYS
42	UC	301	GLN

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Mol	Chain	Res	Type
42	UC	303	VAL
42	UC	304	LYS
42	UC	305	CYS
42	UC	315	CYS
42	UC	323	VAL
42	UC	324	VAL
42	UC	326	LYS
42	UC	327	ASP
42	UC	329	ASN
42	UC	336	LYS
42	UC	339	ARG
42	UC	341	ILE
42	UC	352	LYS
42	UC	358	GLN
42	UC	361	THR
42	UC	362	VAL
42	UC	363	VAL
42	UC	368	LEU
42	UC	370	LYS
42	UC	371	VAL
42	UC	372	GLN
42	UC	373	ARG
42	UC	378	LEU
42	UC	382	THR
42	UC	390	ARG
42	UC	393	HIS
42	UC	394	LYS
42	UC	397	LEU
42	UC	401	LYS
42	UC	406	HIS
42	UC	409	VAL
42	UC	411	GLU
42	UC	413	MET
42	UC	418	PHE
42	UC	420	GLU
42	UC	422	ARG
42	UC	424	ASP
42	UC	425	MET
42	UC	430	LYS
42	UC	432	TYR
42	UC	433	GLU
42	UC	437	MET

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Mol	Chain	Res	Type
42	UC	439	SER
42	UC	440	VAL
41	UD	174	LYS
41	UD	202	ILE
41	UD	209	ASP
41	UD	213	ARG
41	UD	215	LEU
41	UD	216	LYS
41	UD	336	LYS
42	UE	2	ARG
41	UF	370	ASN
42	UG	22	GLU
42	UG	25	CYS
42	UG	26	LEU
42	UG	30	ILE
42	UG	35	GLN
42	UG	48	SER
42	UG	51	THR
42	UG	61	HIS
42	UG	69	ASP
42	UG	70	LEU
42	UG	71	GLU
42	UG	74	VAL
42	UG	75	ILE
42	UG	84	ARG
42	UG	85	GLN
42	UG	86	LEU
42	UG	90	GLU
42	UG	92	LEU
42	UG	93	ILE
42	UG	94	THR
42	UG	206	ASN
42	UG	402	ARG
41	UH	2	ARG
41	UH	297	LYS
42	UI	215	ARG
41	UJ	174	LYS
42	UK	113	GLU
42	UK	119	LEU
42	UK	121	ARG
42	UK	122	ILE
42	UK	123	ARG

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Mol	Chain	Res	Type
42	UK	124	LYS
42	UK	327	ASP
42	UK	335	ILE
41	UL	37	HIS
41	UL	176	SER
41	UL	181	GLU
41	UL	189	VAL
41	UL	191	GLN
41	UL	199	THR
41	UL	202	ILE
41	UL	203	ASP
41	UL	204	ASN
41	UL	207	LEU
41	UL	209	ASP
41	UL	210	ILE
41	UL	347	ASN
42	UM	2	ARG
42	UM	163	LYS
42	UM	175	PRO
42	UM	187	SER
42	UM	188	ILE
42	VC	107	HIS
42	VE	356	ASN
41	VF	1	MET
41	VF	7	LEU
41	VF	11	GLN
41	VF	19	LYS
41	VF	20	PHE
41	VF	25	SER
41	VF	26	ASP
41	VF	31	ASP
41	VF	33	THR
41	VF	39	ASP
41	VF	41	ASP
41	VF	47	ILE
41	VF	58	LYS
41	VF	60	VAL
41	VF	64	VAL
42	VG	128	GLN
41	VH	2	ARG
41	VH	202	ILE
42	VI	2	ARG

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Mol	Chain	Res	Type
42	VI	430	LYS
41	VJ	68	LEU
41	VJ	73	MET
41	VJ	77	ARG
41	VJ	88	ASP
41	VJ	165	ASN
41	VJ	298	ASN
42	VK	1	MET
42	VK	2	ARG
42	VK	5	ILE
42	VK	8	HIS
42	VK	9	VAL
42	VK	20	CYS
42	VK	22	GLU
42	VK	26	LEU
42	VK	30	ILE
42	VK	31	GLN
42	VK	32	PRO
42	VK	40	LYS
42	VK	42	ILE
42	VK	46	ASP
42	VK	62	VAL
42	VK	66	VAL
42	VK	68	VAL
42	VK	69	ASP
42	VK	71	GLU
42	VK	73	THR
42	VK	75	ILE
42	VK	79	ARG
42	VK	84	ARG
42	VK	85	GLN
42	VK	108	TYR
42	VK	109	THR
42	VK	110	ILE
42	VK	112	LYS
42	VK	113	GLU
42	VK	114	LEU
42	VK	116	ASP
42	VK	119	LEU
42	VK	121	ARG
42	VK	125	LEU
42	VK	128	GLN

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Mol	Chain	Res	Type
42	VK	129	CYS
42	VK	133	GLN
42	VK	141	PHE
42	VK	145	THR
42	VK	151	SER
42	VK	153	LEU
42	VK	154	MET
42	VK	163	LYS
42	VK	164	LYS
42	VK	176	GLN
42	VK	178	SER
42	VK	187	SER
42	VK	188	ILE
42	VK	195	LEU
42	VK	198	SER
42	VK	200	CYS
42	VK	204	VAL
42	VK	209	ILE
42	VK	214	ARG
42	VK	218	ASP
42	VK	219	ILE
42	VK	220	GLU
42	VK	221	ARG
42	VK	223	THR
42	VK	225	THR
42	VK	227	LEU
42	VK	230	LEU
42	VK	238	ILE
42	VK	241	SER
42	VK	242	LEU
42	VK	245	ASP
42	VK	249	ASN
42	VK	254	GLU
42	VK	260	VAL
42	VK	262	TYR
42	VK	264	ARG
42	VK	271	THR
42	VK	275	VAL
42	VK	277	SER
42	VK	279	GLU
42	VK	280	LYS
42	VK	283	HIS

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Mol	Chain	Res	Type
42	VK	285	GLN
42	VK	290	GLU
42	VK	303	VAL
42	VK	309	HIS
42	VK	313	MET
42	VK	317	LEU
42	VK	323	VAL
42	VK	327	ASP
42	VK	332	ILE
42	VK	335	ILE
42	VK	336	LYS
42	VK	339	ARG
42	VK	353	VAL
42	VK	361	THR
42	VK	362	VAL
42	VK	367	ASP
42	VK	368	LEU
42	VK	371	VAL
42	VK	373	ARG
42	VK	380	ASN
42	VK	390	ARG
42	VK	391	LEU
42	VK	393	HIS
42	VK	396	ASP
42	VK	398	MET
42	VK	401	LYS
42	VK	402	ARG
42	VK	409	VAL
42	VK	411	GLU
42	VK	414	GLU
42	VK	418	PHE
42	VK	420	GLU
42	VK	422	ARG
42	VK	424	ASP
42	VK	430	LYS
42	VK	433	GLU
42	VK	435	VAL
42	VK	437	MET
42	VK	438	ASP
42	VK	440	VAL
42	WE	1	MET
42	WE	3	GLU

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Mol	Chain	Res	Type
42	WE	36	MET
42	WE	52	PHE
42	WE	60	LYS
42	WE	62	VAL
42	WE	68	VAL
42	WE	75	ILE
42	WE	77	GLU
42	WE	84	ARG
42	WE	85	GLN
42	WE	90	GLU
42	WE	94	THR
42	WE	96	LYS
42	WE	97	GLU
42	WE	105	ARG
42	WE	109	THR
42	WE	110	ILE
42	WE	112	LYS
42	WE	113	GLU
42	WE	119	LEU
42	WE	120	ASP
42	WE	124	LYS
42	WE	132	LEU
42	WE	133	GLN
42	WE	136	LEU
42	WE	137	ILE
42	WE	159	VAL
42	WE	163	LYS
42	WE	164	LYS
42	WE	176	GLN
42	WE	178	SER
42	WE	194	THR
42	WE	195	LEU
42	WE	200	CYS
42	WE	203	MET
42	WE	206	ASN
42	WE	211	ASP
42	WE	212	ILE
42	WE	218	ASP
42	WE	219	ILE
42	WE	220	GLU
42	WE	223	THR
42	WE	226	ASN

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Mol	Chain	Res	Type
42	WE	242	LEU
42	WE	243	ARG
42	WE	250	VAL
42	WE	252	LEU
42	WE	253	THR
42	WE	259	LEU
42	WE	262	TYR
42	WE	264	ARG
42	WE	269	LEU
42	WE	276	ILE
42	WE	277	SER
42	WE	293	ASN
42	WE	295	CYS
42	WE	302	MET
42	WE	303	VAL
42	WE	304	LYS
42	WE	305	CYS
42	WE	306	ASP
42	WE	308	ARG
42	WE	311	LYS
42	WE	318	LEU
42	WE	320	ARG
42	WE	323	VAL
42	WE	324	VAL
42	WE	326	LYS
42	WE	332	ILE
42	WE	338	LYS
42	WE	339	ARG
42	WE	342	GLN
42	WE	344	VAL
42	WE	349	THR
42	WE	353	VAL
42	WE	362	VAL
42	WE	363	VAL
42	WE	367	ASP
42	WE	368	LEU
42	WE	371	VAL
42	WE	382	THR
42	WE	386	GLU
42	WE	401	LYS
42	WE	413	MET
42	WE	422	ARG

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Mol	Chain	Res	Type
42	WE	424	ASP
42	WE	428	LEU
42	WE	430	LYS
42	WE	435	VAL
41	WF	1	MET
41	WF	2	ARG
41	WF	4	ILE
41	WF	6	HIS
41	WF	7	LEU
41	WF	12	CYS
41	WF	19	LYS
41	WF	25	SER
41	WF	26	ASP
41	WF	30	ILE
41	WF	35	THR
41	WF	39	ASP
41	WF	40	SER
41	WF	41	ASP
41	WF	46	ARG
41	WF	47	ILE
41	WF	49	VAL
41	WF	58	LYS
41	WF	60	VAL
41	WF	66	VAL
41	WF	68	LEU
41	WF	74	ASP
41	WF	77	ARG
41	WF	84	ILE
41	WF	86	ARG
41	WF	88	ASP
41	WF	94	GLN
41	WF	101	TRP
41	WF	103	LYS
41	WF	107	THR
41	WF	108	GLU
41	WF	112	LEU
41	WF	113	VAL
41	WF	114	ASP
41	WF	115	SER
41	WF	116	VAL
41	WF	117	LEU
41	WF	118	ASP

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Mol	Chain	Res	Type
41	WF	119	VAL
41	WF	121	ARG
41	WF	128	ASP
41	WF	131	GLN
41	WF	135	LEU
41	WF	139	LEU
41	WF	143	THR
41	WF	147	MET
41	WF	150	LEU
41	WF	152	ILE
41	WF	159	TYR
41	WF	162	ARG
41	WF	164	MET
41	WF	168	SER
41	WF	170	VAL
41	WF	172	SER
41	WF	174	LYS
41	WF	175	VAL
41	WF	178	THR
41	WF	181	GLU
41	WF	187	LEU
41	WF	190	HIS
41	WF	196	THR
41	WF	198	GLU
41	WF	199	THR
41	WF	202	ILE
41	WF	203	ASP
41	WF	212	PHE
41	WF	215	LEU
41	WF	216	LYS
41	WF	218	THR
41	WF	222	TYR
41	WF	224	ASP
41	WF	232	THR
41	WF	236	VAL
41	WF	240	LEU
41	WF	241	ARG
41	WF	245	GLN
41	WF	246	LEU
41	WF	247	ASN
41	WF	252	LYS
41	WF	253	LEU

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Mol	Chain	Res	Type
41	WF	257	MET
41	WF	262	ARG
41	WF	274	THR
41	WF	275	SER
41	WF	276	ARG
41	WF	282	ARG
41	WF	284	LEU
41	WF	288	GLU
41	WF	289	LEU
41	WF	293	MET
41	WF	297	LYS
41	WF	299	MET
41	WF	303	CYS
41	WF	306	ARG
41	WF	309	ARG
41	WF	312	THR
41	WF	313	VAL
41	WF	318	ARG
41	WF	320	ARG
41	WF	322	SER
41	WF	325	GLU
41	WF	326	VAL
41	WF	327	ASP
41	WF	328	GLU
41	WF	336	LYS
41	WF	337	ASN
41	WF	344	TRP
41	WF	350	LYS
41	WF	351	THR
41	WF	356	ILE
41	WF	359	ARG
41	WF	361	LEU
41	WF	362	LYS
41	WF	364	SER
41	WF	368	ILE
41	WF	371	SER
41	WF	376	GLU
41	WF	379	LYS
41	WF	383	GLU
41	WF	390	ARG
41	WF	392	LYS
41	WF	396	HIS

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Mol	Chain	Res	Type
41	WF	403	MET
41	WF	406	MET
41	WF	409	THR
41	WF	413	SER
41	WF	424	GLN
42	WG	2	ARG
42	WG	422	ARG
41	WH	1	MET
41	WH	4	ILE
41	WH	7	LEU
41	WH	8	GLN
41	WH	19	LYS
41	WH	25	SER
41	WH	35	THR
41	WH	43	GLN
41	WH	45	GLU
41	WH	46	ARG
41	WH	58	LYS
41	WH	60	VAL
41	WH	67	ASP
41	WH	69	GLU
41	WH	73	MET
41	WH	74	ASP
41	WH	78	SER
41	WH	84	ILE
41	WH	91	VAL
41	WH	94	GLN
41	WH	101	TRP
41	WH	108	GLU
41	WH	111	GLU
41	WH	114	ASP
41	WH	117	LEU
41	WH	118	ASP
41	WH	119	VAL
41	WH	122	LYS
41	WH	128	ASP
41	WH	143	THR
41	WH	147	MET
41	WH	151	LEU
41	WH	157	GLU
41	WH	162	ARG
41	WH	166	THR

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Mol	Chain	Res	Type
41	WH	172	SER
41	WH	177	ASP
41	WH	178	THR
41	WH	179	VAL
41	WH	180	VAL
41	WH	191	GLN
41	WH	192	LEU
41	WH	197	ASP
41	WH	199	THR
41	WH	202	ILE
41	WH	204	ASN
41	WH	208	TYR
41	WH	212	PHE
41	WH	213	ARG
41	WH	215	LEU
41	WH	222	TYR
41	WH	224	ASP
41	WH	227	HIS
41	WH	236	VAL
41	WH	245	GLN
41	WH	262	ARG
41	WH	273	LEU
41	WH	274	THR
41	WH	276	ARG
41	WH	278	SER
41	WH	279	GLN
41	WH	282	ARG
41	WH	284	LEU
41	WH	285	THR
41	WH	288	GLU
41	WH	289	LEU
41	WH	290	THR
41	WH	295	ASP
41	WH	297	LYS
41	WH	300	MET
41	WH	306	ARG
41	WH	309	ARG
41	WH	310	TYR
41	WH	312	THR
41	WH	316	VAL
41	WH	318	ARG
41	WH	321	MET

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Mol	Chain	Res	Type
41	WH	322	SER
41	WH	323	MET
41	WH	324	LYS
41	WH	336	LYS
41	WH	337	ASN
41	WH	346	PRO
41	WH	351	THR
41	WH	353	VAL
41	WH	359	ARG
41	WH	362	LYS
41	WH	364	SER
41	WH	366	THR
41	WH	367	PHE
41	WH	374	ILE
41	WH	380	ARG
41	WH	386	THR
41	WH	392	LYS
41	WH	401	GLU
41	WH	403	MET
41	WH	404	ASP
41	WH	406	MET
41	WH	413	SER
41	WH	418	LEU
41	WH	423	GLN
41	WH	424	GLN
42	WI	1	MET
42	WI	3	GLU
42	WI	6	SER
42	WI	9	VAL
42	WI	22	GLU
42	WI	30	ILE
42	WI	55	GLU
42	WI	66	VAL
42	WI	68	VAL
42	WI	71	GLU
42	WI	74	VAL
42	WI	75	ILE
42	WI	91	GLN
42	WI	93	ILE
42	WI	94	THR
42	WI	110	ILE
42	WI	112	LYS

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Mol	Chain	Res	Type
42	WI	114	LEU
42	WI	119	LEU
42	WI	124	LYS
42	WI	128	GLN
42	WI	129	CYS
42	WI	133	GLN
42	WI	136	LEU
42	WI	141	PHE
42	WI	147	SER
42	WI	156	ARG
42	WI	163	LYS
42	WI	164	LYS
42	WI	170	SER
42	WI	175	PRO
42	WI	182	VAL
42	WI	188	ILE
42	WI	191	THR
42	WI	192	HIS
42	WI	195	LEU
42	WI	200	CYS
42	WI	203	MET
42	WI	204	VAL
42	WI	205	ASP
42	WI	207	GLU
42	WI	210	TYR
42	WI	215	ARG
42	WI	218	ASP
42	WI	219	ILE
42	WI	221	ARG
42	WI	223	THR
42	WI	237	SER
42	WI	244	PHE
42	WI	253	THR
42	WI	259	LEU
42	WI	264	ARG
42	WI	271	THR
42	WI	275	VAL
42	WI	276	ILE
42	WI	277	SER
42	WI	280	LYS
42	WI	285	GLN
42	WI	295	CYS

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Mol	Chain	Res	Type
42	WI	303	VAL
42	WI	305	CYS
42	WI	311	LYS
42	WI	316	CYS
42	WI	320	ARG
42	WI	322	ASP
42	WI	323	VAL
42	WI	327	ASP
42	WI	334	THR
42	WI	338	LYS
42	WI	342	GLN
42	WI	344	VAL
42	WI	349	THR
42	WI	352	LYS
42	WI	353	VAL
42	WI	362	VAL
42	WI	363	VAL
42	WI	368	LEU
42	WI	371	VAL
42	WI	373	ARG
42	WI	378	LEU
42	WI	380	ASN
42	WI	381	THR
42	WI	386	GLU
42	WI	390	ARG
42	WI	396	ASP
42	WI	398	MET
42	WI	401	LYS
42	WI	402	ARG
42	WI	411	GLU
42	WI	422	ARG
42	WI	423	GLU
42	WI	424	ASP
42	WI	425	MET
42	WI	430	LYS
42	WI	437	MET
41	WJ	274	THR
41	WJ	275	SER
41	WJ	278	SER
41	WJ	279	GLN
41	WJ	280	GLN
41	WJ	284	LEU

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Mol	Chain	Res	Type
41	WJ	285	THR
42	WK	2	ARG
41	WL	165	ASN
41	WL	334	GLN
41	WN	2	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1108) such sidechains are listed below:

Mol	Chain	Res	Type
2	1D	149	GLN
2	1F	80	GLN
3	1I	182	GLN
4	1K	104	ASN
7	1T	263	HIS
7	1U	77	HIS
8	1W	107	ASN
8	1X	7	GLN
8	2A	31	ASN
8	2A	107	ASN
8	2A	130	ASN
9	2D	510	HIS
10	2H	81	ASN
11	2K	323	GLN
11	2K	336	GLN
11	2K	425	GLN
11	2L	276	GLN
12	2O	36	HIS
12	2O	206	GLN
12	2P	568	ASN
12	2P	589	HIS
12	2Q	36	HIS
12	2Q	562	HIS
13	2S	146	GLN
13	2S	173	GLN
13	2S	193	GLN
13	2S	237	GLN
13	2S	249	GLN
13	2T	339	GLN
13	2T	400	GLN
13	2T	402	GLN
13	2T	423	ASN
13	2T	459	GLN

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Mol	Chain	Res	Type
14	2W	27	GLN
14	2W	200	GLN
19	3K	35	ASN
19	3K	145	GLN
19	3K	164	HIS
19	3L	89	HIS
19	3L	164	HIS
20	3N	266	GLN
21	3T	211	HIS
21	3T	231	GLN
21	3V	107	ASN
21	3V	211	HIS
22	4B	33	GLN
24	4F	15	GLN
24	4F	61	GLN
25	4J	38	HIS
25	4J	315	GLN
27	4O	215	GLN
27	4O	216	GLN
27	4R	173	GLN
27	4R	198	ASN
27	4R	226	GLN
27	4S	173	GLN
29	4Y	118	HIS
31	5G	14	GLN
31	5H	14	GLN
31	5H	21	GLN
32	5M	306	GLN
32	5M	366	ASN
32	5M	369	GLN
32	5N	281	HIS
32	5N	292	GLN
32	5O	23	GLN
32	5O	30	GLN
32	5O	65	GLN
32	5O	83	GLN
32	5O	95	GLN
32	5O	99	GLN
32	5O	140	HIS
32	5O	160	GLN
32	5O	197	ASN
32	5O	210	ASN

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Mol	Chain	Res	Type
32	5O	381	ASN
33	5R	20	ASN
33	5S	18	GLN
33	5S	40	GLN
33	5S	51	ASN
33	5S	107	ASN
33	5S	152	GLN
33	5S	166	GLN
33	5S	170	GLN
33	5S	193	ASN
33	5T	94	GLN
33	5T	101	GLN
33	5T	138	HIS
33	5T	170	GLN
33	5T	282	GLN
33	5T	382	ASN
33	5V	176	HIS
33	5V	252	ASN
33	5V	282	GLN
33	5V	416	ASN
33	5W	20	ASN
33	5W	40	GLN
33	5W	104	GLN
33	5X	104	GLN
33	5X	107	ASN
34	6A	133	GLN
34	6A	144	GLN
34	6A	262	GLN
34	6A	327	ASN
34	6B	374	GLN
34	6C	230	GLN
34	6C	276	ASN
34	6C	436	GLN
34	6E	417	GLN
34	6F	243	GLN
34	6G	450	HIS
34	6G	464	ASN
34	6K	139	GLN
34	6K	201	HIS
34	6K	243	GLN
34	6K	247	ASN
34	6K	446	GLN

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Mol	Chain	Res	Type
34	6K	470	GLN
34	6L	446	GLN
34	6L	470	GLN
34	6M	307	ASN
35	6P	111	HIS
35	6Q	157	GLN
35	6R	93	GLN
35	6R	97	GLN
35	6R	136	GLN
35	6R	223	ASN
35	6R	262	GLN
35	6S	155	ASN
35	6S	187	GLN
35	6S	200	GLN
35	6S	204	ASN
35	6T	164	HIS
35	6T	335	ASN
35	6U	163	GLN
35	6U	164	HIS
35	6V	157	GLN
35	6V	296	GLN
35	6V	332	GLN
35	6V	335	ASN
35	6V	421	ASN
37	7C	191	GLN
37	7D	41	HIS
37	7E	221	HIS
40	7N	441	ASN
41	AB	191	GLN
42	AC	88	HIS
41	AD	334	GLN
41	AD	348	ASN
41	AF	94	GLN
41	AH	83	GLN
41	AH	137	HIS
41	AH	195	ASN
41	AH	247	ASN
41	AH	256	ASN
41	AH	280	GLN
41	AH	292	GLN
41	AH	298	ASN
41	AH	424	GLN

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Mol	Chain	Res	Type
42	AI	11	GLN
42	AI	15	GLN
42	AI	101	ASN
42	AI	192	HIS
41	AJ	256	ASN
41	AJ	424	GLN
42	AK	283	HIS
42	AK	309	HIS
42	AK	372	GLN
41	AL	14	ASN
41	AL	52	ASN
41	AL	94	GLN
41	AL	131	GLN
41	AL	134	GLN
41	AL	191	GLN
41	AL	247	ASN
41	AL	335	ASN
41	AL	375	GLN
41	AL	423	GLN
41	BB	15	GLN
42	BC	258	ASN
41	BD	99	ASN
41	BD	131	GLN
41	BD	329	GLN
41	BD	334	GLN
41	BD	384	GLN
42	BG	256	GLN
42	BG	285	GLN
42	BG	358	GLN
42	BI	102	ASN
42	BI	256	GLN
42	BI	258	ASN
42	BI	293	ASN
41	BJ	165	ASN
41	BJ	256	ASN
41	BJ	396	HIS
41	BL	11	GLN
41	BL	134	GLN
41	BL	334	GLN
41	CB	414	ASN
42	CC	28	HIS
42	CC	31	GLN

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Mol	Chain	Res	Type
42	CC	35	GLN
42	CC	101	ASN
42	CC	128	GLN
42	CC	176	GLN
42	CC	206	ASN
42	CC	233	GLN
42	CC	283	HIS
42	CC	329	ASN
41	CD	8	GLN
41	CD	256	ASN
41	CD	384	GLN
41	CD	414	ASN
41	CD	416	ASN
41	CD	426	GLN
42	CE	11	GLN
42	CE	50	ASN
42	CE	101	ASN
42	CE	133	GLN
42	CE	285	GLN
41	CF	11	GLN
41	CF	15	GLN
41	CF	94	GLN
41	CF	131	GLN
41	CF	137	HIS
41	CF	280	GLN
41	CF	424	GLN
42	CG	11	GLN
42	CG	88	HIS
42	CG	176	GLN
42	CG	233	GLN
42	CG	256	GLN
42	CG	300	ASN
42	CG	309	HIS
42	CG	356	ASN
41	CH	89	ASN
42	CI	128	GLN
42	CI	256	GLN
42	CI	380	ASN
41	CJ	8	GLN
41	CJ	99	ASN
41	CJ	137	HIS
41	CJ	227	HIS

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Mol	Chain	Res	Type
41	CJ	375	GLN
41	CJ	423	GLN
41	CJ	426	GLN
42	CK	11	GLN
42	CK	15	GLN
42	CK	258	ASN
41	CL	134	GLN
41	CL	256	ASN
42	CM	11	GLN
41	DB	247	ASN
41	DB	334	GLN
41	DB	370	ASN
42	DC	88	HIS
42	DC	258	ASN
41	DD	247	ASN
41	DD	279	GLN
41	DD	334	GLN
41	DD	370	ASN
42	DE	101	ASN
42	DE	258	ASN
42	DE	301	GLN
41	DF	6	HIS
41	DF	190	HIS
41	DF	191	GLN
42	DG	88	HIS
42	DG	258	ASN
42	DG	356	ASN
41	DH	226	ASN
41	DH	396	HIS
42	DI	206	ASN
42	DI	329	ASN
41	DJ	6	HIS
41	DJ	99	ASN
41	DJ	131	GLN
41	DJ	195	ASN
41	DJ	247	ASN
41	DJ	291	GLN
41	DJ	292	GLN
41	DJ	347	ASN
41	DJ	384	GLN
41	DJ	424	GLN
42	DK	18	ASN

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Mol	Chain	Res	Type
42	DK	91	GLN
42	DK	102	ASN
42	DK	176	GLN
42	DK	406	HIS
41	DL	165	ASN
41	DL	298	ASN
41	DL	414	ASN
42	DM	11	GLN
42	DM	15	GLN
42	EC	91	GLN
42	EC	107	HIS
42	EC	358	GLN
41	ED	14	ASN
41	ED	137	HIS
41	ED	426	GLN
42	EE	15	GLN
42	EE	107	HIS
42	EE	133	GLN
41	EF	28	HIS
41	EF	226	ASN
41	EF	334	GLN
42	EG	8	HIS
42	EG	11	GLN
42	EG	15	GLN
42	EG	18	ASN
42	EG	101	ASN
42	EG	186	ASN
42	EG	393	HIS
41	EH	184	ASN
41	EH	204	ASN
41	EH	292	GLN
41	EH	298	ASN
41	EH	384	GLN
42	EI	50	ASN
42	EI	216	ASN
42	EI	228	ASN
41	EJ	256	ASN
41	EJ	280	GLN
42	EK	31	GLN
42	EK	61	HIS
42	EK	91	GLN
42	EK	101	ASN

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Mol	Chain	Res	Type
42	EK	128	GLN
42	EK	216	ASN
42	EK	226	ASN
42	EK	285	GLN
42	EK	300	ASN
41	EL	28	HIS
42	EM	8	HIS
42	EM	91	GLN
42	EM	102	ASN
42	EM	226	ASN
42	EM	285	GLN
42	EM	301	GLN
42	EM	342	GLN
42	FC	101	ASN
42	FC	133	GLN
42	FC	186	ASN
42	FC	329	ASN
41	FD	8	GLN
41	FD	43	GLN
41	FD	134	GLN
41	FD	264	HIS
41	FD	280	GLN
41	FD	370	ASN
41	FD	426	GLN
42	FE	11	GLN
42	FE	101	ASN
42	FE	256	GLN
42	FE	406	HIS
41	FF	291	GLN
41	FF	370	ASN
42	FG	258	ASN
42	FG	283	HIS
41	FH	99	ASN
41	FH	134	GLN
41	FH	280	GLN
41	FH	292	GLN
41	FH	370	ASN
42	FI	8	HIS
42	FI	18	ASN
42	FI	88	HIS
42	FI	91	GLN
42	FI	101	ASN

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Mol	Chain	Res	Type
42	FK	15	GLN
42	FK	18	ASN
42	FK	50	ASN
42	FK	197	HIS
42	FK	329	ASN
42	FK	406	HIS
41	FL	8	GLN
41	FL	43	GLN
41	FL	99	ASN
41	FL	195	ASN
41	FL	280	GLN
41	FL	329	GLN
41	FL	370	ASN
41	FL	375	GLN
41	FL	423	GLN
41	FL	426	GLN
42	FM	15	GLN
42	FM	197	HIS
42	FM	358	GLN
42	FM	380	ASN
42	GC	258	ASN
41	GD	8	GLN
41	GD	11	GLN
41	GD	99	ASN
41	GD	100	ASN
41	GD	105	HIS
41	GD	332	ASN
41	GD	335	ASN
41	GD	414	ASN
41	GF	375	GLN
42	GG	28	HIS
42	GG	101	ASN
42	GG	128	GLN
42	GG	186	ASN
42	GG	283	HIS
41	GH	245	GLN
41	GH	256	ASN
42	GI	88	HIS
42	GI	91	GLN
42	GI	128	GLN
41	GJ	137	HIS
41	GJ	165	ASN

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Mol	Chain	Res	Type
41	GJ	184	ASN
41	GJ	204	ASN
41	GJ	347	ASN
41	GJ	384	GLN
42	GK	88	HIS
42	GM	15	GLN
42	GM	35	GLN
42	GM	88	HIS
42	GM	128	GLN
42	GM	133	GLN
42	GM	176	GLN
42	GM	186	ASN
42	GM	285	GLN
42	GM	293	ASN
42	GM	358	GLN
41	HB	131	GLN
41	HB	298	ASN
42	HC	35	GLN
42	HC	226	ASN
42	HC	406	HIS
41	HD	48	ASN
41	HD	131	GLN
41	HD	165	ASN
41	HD	245	GLN
41	HD	280	GLN
41	HD	337	ASN
41	HD	423	GLN
42	HE	266	HIS
41	HF	247	ASN
42	HG	11	GLN
42	HG	18	ASN
42	HG	91	GLN
42	HG	107	HIS
42	HG	226	ASN
42	HG	233	GLN
42	HG	258	ASN
42	HG	285	GLN
42	HG	309	HIS
42	HG	356	ASN
41	HH	191	GLN
41	HH	227	HIS
41	HH	292	GLN

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Mol	Chain	Res	Type
42	HI	31	GLN
42	HI	88	HIS
42	HI	285	GLN
42	HI	293	ASN
42	HI	301	GLN
41	HJ	99	ASN
41	HJ	100	ASN
41	HJ	131	GLN
41	HJ	191	GLN
41	HJ	280	GLN
41	HJ	298	ASN
41	HJ	334	GLN
41	HJ	337	ASN
41	HJ	414	ASN
41	HJ	424	GLN
42	HK	61	HIS
42	HK	358	GLN
41	HL	256	ASN
42	HM	11	GLN
42	HM	15	GLN
42	HM	28	HIS
42	HM	101	ASN
42	HM	107	HIS
42	HM	206	ASN
42	HM	249	ASN
42	HM	380	ASN
42	IC	8	HIS
42	IC	216	ASN
42	IC	300	ASN
41	ID	15	GLN
41	ID	100	ASN
41	ID	414	ASN
42	IE	101	ASN
42	IE	128	GLN
42	IE	206	ASN
41	IF	6	HIS
41	IF	8	GLN
41	IF	43	GLN
41	IF	99	ASN
41	IF	134	GLN
41	IF	247	ASN
41	IF	264	HIS

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Mol	Chain	Res	Type
41	IF	279	GLN
42	IG	11	GLN
41	IH	348	ASN
42	II	192	HIS
42	II	283	HIS
41	IJ	105	HIS
41	IJ	191	GLN
41	IJ	245	GLN
42	IK	283	HIS
42	IM	28	HIS
41	IN	14	ASN
41	IN	43	GLN
41	IN	195	ASN
41	IN	204	ASN
41	IN	227	HIS
41	IN	279	GLN
41	IN	329	GLN
41	IN	334	GLN
41	IN	384	GLN
41	IN	423	GLN
41	IN	426	GLN
42	JC	88	HIS
41	JD	8	GLN
41	JD	14	ASN
41	JD	134	GLN
42	JE	380	ASN
41	JF	6	HIS
41	JF	99	ASN
41	JF	256	ASN
42	JG	11	GLN
42	JG	88	HIS
42	JG	197	HIS
41	JH	6	HIS
41	JH	134	GLN
41	JH	245	GLN
41	JH	329	GLN
41	JH	375	GLN
42	JI	406	HIS
41	JJ	191	GLN
42	JK	11	GLN
42	JK	31	GLN
42	JK	133	GLN

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Mol	Chain	Res	Type
42	JK	176	GLN
42	JK	216	ASN
42	JK	358	GLN
41	JL	11	GLN
41	JL	15	GLN
41	JL	291	GLN
41	JL	332	ASN
41	JL	426	GLN
42	JM	11	GLN
42	JM	15	GLN
42	JM	28	HIS
42	JM	206	ASN
42	JM	258	ASN
42	JM	285	GLN
42	JM	356	ASN
42	KC	28	HIS
41	KD	416	ASN
42	KE	28	HIS
41	KF	184	ASN
41	KF	190	HIS
41	KF	256	ASN
42	KG	50	ASN
41	KH	131	GLN
41	KH	256	ASN
41	KJ	6	HIS
41	KJ	14	ASN
41	KJ	134	GLN
41	KL	100	ASN
42	KM	15	GLN
42	KM	50	ASN
42	KM	91	GLN
42	KM	101	ASN
42	KM	128	GLN
42	KM	133	GLN
42	KM	256	GLN
42	KM	356	ASN
41	KN	99	ASN
41	KN	292	GLN
41	KN	426	GLN
42	LC	31	GLN
41	LD	8	GLN
41	LD	14	ASN

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Mol	Chain	Res	Type
41	LD	15	GLN
41	LD	256	ASN
41	LD	335	ASN
41	LD	370	ASN
41	LD	426	GLN
42	LE	31	GLN
42	LE	356	ASN
41	LH	11	GLN
42	LI	102	ASN
41	LJ	37	HIS
41	LJ	184	ASN
41	LJ	279	GLN
42	LK	258	ASN
41	LL	137	HIS
42	LM	88	HIS
42	LM	356	ASN
41	LN	256	ASN
41	MD	14	ASN
41	MD	28	HIS
41	MD	83	GLN
41	MD	100	ASN
41	MD	384	GLN
41	MD	414	ASN
42	ME	258	ASN
41	MF	8	GLN
41	MF	15	GLN
41	MF	94	GLN
41	MF	137	HIS
41	MF	256	ASN
41	MF	334	GLN
41	MF	384	GLN
42	MG	18	ASN
42	MG	61	HIS
42	MG	102	ASN
42	MG	256	GLN
42	MG	285	GLN
42	MG	293	ASN
42	MG	309	HIS
42	MI	309	HIS
41	MJ	14	ASN
41	MJ	184	ASN
41	MJ	291	GLN

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Mol	Chain	Res	Type
42	MK	28	HIS
42	MK	61	HIS
41	ML	8	GLN
41	ML	190	HIS
41	ML	347	ASN
42	MM	329	ASN
41	MN	8	GLN
41	MN	99	ASN
41	MN	165	ASN
41	MN	414	ASN
41	MN	416	ASN
41	MN	423	GLN
41	MN	426	GLN
42	NA	8	HIS
42	NA	249	ASN
42	NA	329	ASN
42	NA	372	GLN
41	NB	99	ASN
41	NB	134	GLN
41	NB	247	ASN
41	NB	256	ASN
41	NB	280	GLN
41	NB	334	GLN
41	NB	335	ASN
41	NB	337	ASN
41	NB	348	ASN
41	NB	396	HIS
41	NB	424	GLN
42	NC	15	GLN
42	NC	50	ASN
42	NC	102	ASN
42	NC	256	GLN
42	NC	329	ASN
42	NC	406	HIS
41	ND	43	GLN
41	ND	99	ASN
41	ND	204	ASN
41	ND	298	ASN
42	NE	11	GLN
42	NE	15	GLN
42	NE	258	ASN
41	NF	14	ASN

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Mol	Chain	Res	Type
41	NF	83	GLN
41	NF	204	ASN
41	NF	256	ASN
41	NF	279	GLN
41	NF	335	ASN
42	NG	85	GLN
42	NG	176	GLN
42	NG	206	ASN
42	NG	256	GLN
42	NG	258	ASN
42	NG	356	ASN
41	NH	43	GLN
41	NH	100	ASN
41	NH	134	GLN
41	NH	190	HIS
41	NH	191	GLN
41	NH	245	GLN
41	NH	264	HIS
41	NH	280	GLN
41	NH	347	ASN
41	NH	375	GLN
41	NH	384	GLN
42	NI	15	GLN
42	NI	18	ASN
42	NI	28	HIS
42	NI	35	GLN
42	NI	88	HIS
42	NI	91	GLN
42	NI	266	HIS
42	NI	329	ASN
42	NI	372	GLN
42	NK	35	GLN
42	NK	91	GLN
42	NK	101	ASN
42	NK	128	GLN
42	NK	133	GLN
41	NL	8	GLN
41	NL	195	ASN
41	NL	375	GLN
42	OA	249	ASN
42	OA	258	ASN
42	OA	329	ASN

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Mol	Chain	Res	Type
41	OB	8	GLN
41	OB	15	GLN
41	OB	89	ASN
41	OB	165	ASN
41	OB	204	ASN
41	OB	280	GLN
41	OB	347	ASN
41	OB	396	HIS
42	OC	8	HIS
42	OC	101	ASN
42	OC	301	GLN
42	OC	406	HIS
41	OD	134	GLN
41	OD	256	ASN
42	OE	15	GLN
41	OF	89	ASN
41	OF	134	GLN
41	OF	195	ASN
41	OF	256	ASN
42	OG	197	HIS
42	OG	258	ASN
42	OG	285	GLN
42	OG	300	ASN
41	OH	99	ASN
41	OH	165	ASN
41	OH	329	GLN
41	OH	335	ASN
41	OH	337	ASN
42	OI	266	HIS
41	OJ	89	ASN
41	OJ	256	ASN
41	OJ	280	GLN
41	OJ	292	GLN
41	OJ	329	GLN
41	OJ	334	GLN
41	OJ	416	ASN
42	OK	8	HIS
42	OK	406	HIS
41	OL	329	GLN
42	PA	85	GLN
42	PA	249	ASN
41	PB	11	GLN

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Mol	Chain	Res	Type
41	PB	48	ASN
41	PB	83	GLN
41	PB	100	ASN
41	PB	298	ASN
41	PB	375	GLN
41	PB	414	ASN
41	PB	423	GLN
42	PC	18	ASN
42	PC	35	GLN
42	PC	88	HIS
42	PC	186	ASN
42	PC	258	ASN
42	PC	329	ASN
41	PD	8	GLN
41	PD	14	ASN
41	PD	100	ASN
41	PD	292	GLN
41	PD	329	GLN
41	PD	332	ASN
41	PD	423	GLN
42	PE	15	GLN
42	PE	88	HIS
42	PE	102	ASN
42	PE	216	ASN
42	PE	233	GLN
42	PE	256	GLN
42	PE	285	GLN
42	PE	329	ASN
42	PE	406	HIS
41	PF	195	ASN
41	PF	256	ASN
41	PF	291	GLN
41	PF	337	ASN
41	PF	384	GLN
41	PF	414	ASN
41	PF	416	ASN
42	PG	226	ASN
42	PG	256	GLN
42	PG	266	HIS
42	PG	283	HIS
42	PG	301	GLN
42	PG	309	HIS

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Mol	Chain	Res	Type
42	PG	329	ASN
41	PH	11	GLN
41	PH	28	HIS
41	PH	105	HIS
41	PH	191	GLN
41	PH	204	ASN
41	PH	227	HIS
41	PH	247	ASN
41	PH	292	GLN
41	PH	332	ASN
41	PH	370	ASN
41	PH	384	GLN
41	PH	396	HIS
41	PH	416	ASN
42	PI	11	GLN
42	PI	35	GLN
42	PI	101	ASN
42	PI	128	GLN
42	PI	139	HIS
42	PI	176	GLN
42	PI	197	HIS
42	PI	249	ASN
42	PI	258	ASN
42	PI	301	GLN
42	PI	406	HIS
41	PJ	28	HIS
41	PJ	99	ASN
41	PJ	131	GLN
41	PJ	247	ASN
41	PJ	256	ASN
41	PJ	264	HIS
41	PJ	292	GLN
41	PJ	337	ASN
41	PJ	348	ASN
41	PJ	375	GLN
41	PJ	384	GLN
42	PK	31	GLN
42	PK	91	GLN
42	PK	102	ASN
42	PK	186	ASN
42	PK	300	ASN
42	PK	342	GLN

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Mol	Chain	Res	Type
42	PK	356	ASN
42	PK	393	HIS
41	PL	15	GLN
41	PL	83	GLN
41	PL	195	ASN
41	PL	247	ASN
41	PL	292	GLN
41	PL	384	GLN
41	PL	423	GLN
41	QB	6	HIS
41	QB	131	GLN
41	QB	375	GLN
42	QC	11	GLN
42	QC	226	ASN
42	QC	380	ASN
41	QD	14	ASN
41	QD	165	ASN
41	QD	191	GLN
41	QD	256	ASN
41	QD	348	ASN
41	QF	14	ASN
41	QF	89	ASN
41	QF	134	GLN
41	QF	245	GLN
41	QF	292	GLN
41	QF	334	GLN
41	QF	375	GLN
42	QG	228	ASN
42	QG	329	ASN
42	QG	356	ASN
41	QH	8	GLN
41	QH	11	GLN
41	QH	15	GLN
41	QH	89	ASN
41	QH	191	GLN
41	QH	195	ASN
41	QH	256	ASN
41	QH	298	ASN
41	QH	348	ASN
41	QH	416	ASN
41	QH	424	GLN
42	QI	31	GLN

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Mol	Chain	Res	Type
42	QI	91	GLN
42	QI	128	GLN
42	QI	233	GLN
42	QI	256	GLN
41	QJ	83	GLN
41	QJ	131	GLN
41	QJ	165	ASN
41	QJ	291	GLN
41	QJ	292	GLN
41	QJ	298	ASN
41	QJ	335	ASN
41	QJ	426	GLN
42	QK	15	GLN
42	QK	18	ASN
42	QK	31	GLN
42	QK	186	ASN
42	QK	206	ASN
42	QK	266	HIS
42	QK	329	ASN
41	QL	43	GLN
41	QL	89	ASN
41	QL	280	GLN
41	QL	329	GLN
41	QL	384	GLN
41	QL	416	ASN
41	RB	8	GLN
41	RB	131	GLN
41	RB	423	GLN
42	RC	88	HIS
42	RC	301	GLN
41	RD	8	GLN
41	RD	14	ASN
41	RD	15	GLN
41	RD	105	HIS
41	RD	131	GLN
41	RD	335	ASN
41	RD	337	ASN
41	RD	375	GLN
41	RD	416	ASN
41	RD	423	GLN
42	RE	256	GLN
41	RF	8	GLN

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Mol	Chain	Res	Type
41	RF	15	GLN
41	RF	134	GLN
41	RF	190	HIS
41	RF	191	GLN
41	RF	332	ASN
41	RF	335	ASN
41	RF	370	ASN
41	RF	384	GLN
41	RF	414	ASN
41	RF	424	GLN
41	RF	426	GLN
42	RG	11	GLN
42	RG	61	HIS
42	RG	258	ASN
41	RH	8	GLN
41	RH	11	GLN
41	RH	99	ASN
41	RH	291	GLN
41	RH	292	GLN
42	RI	258	ASN
41	RJ	11	GLN
41	RJ	14	ASN
41	RJ	15	GLN
41	RJ	52	ASN
41	RJ	83	GLN
41	RJ	105	HIS
41	RJ	191	GLN
41	RJ	370	ASN
41	RJ	416	ASN
41	RJ	424	GLN
41	RL	99	ASN
41	RL	292	GLN
42	SC	88	HIS
42	SC	133	GLN
42	SC	258	ASN
41	SD	8	GLN
41	SD	292	GLN
42	SE	15	GLN
42	SE	61	HIS
42	SE	102	ASN
42	SE	256	GLN
41	SF	131	GLN

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Mol	Chain	Res	Type
41	SF	184	ASN
41	SF	195	ASN
41	SF	245	GLN
41	SF	292	GLN
41	SF	335	ASN
42	SG	91	GLN
41	SH	256	ASN
42	SI	35	GLN
42	SI	133	GLN
42	SI	192	HIS
42	SI	256	GLN
42	SI	258	ASN
42	SI	283	HIS
41	SJ	190	HIS
41	SJ	337	ASN
41	SJ	414	ASN
42	SK	300	ASN
41	SL	8	GLN
41	SL	14	ASN
41	SL	83	GLN
41	SL	89	ASN
41	SL	134	GLN
41	SL	165	ASN
41	SL	190	HIS
41	SL	204	ASN
41	SL	247	ASN
41	SL	264	HIS
41	SL	329	GLN
41	SL	335	ASN
41	SL	347	ASN
41	SL	416	ASN
42	SM	101	ASN
42	SM	301	GLN
41	TD	6	HIS
41	TD	256	ASN
42	TE	91	GLN
42	TE	101	ASN
42	TE	309	HIS
41	TF	137	HIS
41	TF	190	HIS
41	TF	191	GLN
41	TF	195	ASN

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Mol	Chain	Res	Type
41	TF	375	GLN
42	TG	91	GLN
42	TG	133	GLN
41	TH	347	ASN
41	TH	396	HIS
42	TI	11	GLN
42	TI	85	GLN
42	TI	91	GLN
42	TI	197	HIS
41	TJ	94	GLN
41	TJ	334	GLN
42	TK	11	GLN
42	TK	35	GLN
42	TK	50	ASN
42	TK	133	GLN
42	TK	285	GLN
42	TK	329	ASN
41	TL	8	GLN
41	TL	11	GLN
41	TL	105	HIS
41	TL	256	ASN
42	TM	8	HIS
42	TM	91	GLN
42	TM	101	ASN
42	UC	31	GLN
42	UC	85	GLN
42	UC	128	GLN
42	UC	176	GLN
42	UC	233	GLN
42	UC	258	ASN
42	UC	300	ASN
42	UC	329	ASN
42	UC	372	GLN
41	UD	347	ASN
42	UE	91	GLN
42	UE	380	ASN
41	UF	256	ASN
42	UG	8	HIS
42	UG	31	GLN
42	UG	61	HIS
42	UG	88	HIS
42	UG	101	ASN

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Mol	Chain	Res	Type
42	UG	258	ASN
41	UH	99	ASN
41	UH	131	GLN
42	UI	139	HIS
41	UJ	131	GLN
42	UK	88	HIS
42	UK	329	ASN
41	UL	131	GLN
41	UL	334	GLN
41	UL	375	GLN
41	UL	416	ASN
41	UL	426	GLN
42	UM	8	HIS
42	UM	133	GLN
41	VD	6	HIS
41	VF	11	GLN
41	VF	15	GLN
41	VF	99	ASN
41	VF	256	ASN
41	VF	334	GLN
42	VG	88	HIS
42	VG	283	HIS
41	VH	94	GLN
41	VH	105	HIS
42	VI	285	GLN
41	VJ	14	ASN
41	VJ	134	GLN
42	VK	85	GLN
42	VK	88	HIS
42	VK	206	ASN
42	VK	249	ASN
42	VK	256	GLN
42	VK	380	ASN
41	VL	48	ASN
41	VL	334	GLN
42	WC	197	HIS
41	WD	247	ASN
42	WE	11	GLN
42	WE	15	GLN
42	WE	133	GLN
42	WE	206	ASN
41	WF	6	HIS

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Mol	Chain	Res	Type
41	WF	94	GLN
41	WF	298	ASN
41	WF	334	GLN
41	WF	335	ASN
42	WG	50	ASN
42	WG	283	HIS
41	WH	6	HIS
41	WH	14	ASN
41	WH	334	GLN
41	WH	347	ASN
42	WI	15	GLN
42	WI	50	ASN
42	WI	133	GLN
42	WI	285	GLN
42	WI	356	ASN
42	WI	358	GLN
41	WJ	137	HIS
41	WJ	256	ASN
42	WK	91	GLN
42	WK	356	ASN
42	WK	380	ASN
41	WL	348	ASN
41	WN	105	HIS
41	WN	191	GLN
41	WN	280	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry

Of 370 ligands modelled in this entry, 106 are monoatomic - leaving 264 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
43	GDP	LD	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.11	2 (6%)
45	GTP	EM	501	-	29,34,34	1.22	1 (3%)	35,54,54	1.31	6 (17%)
43	GDP	JL	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.18	4 (13%)
45	GTP	IK	501	44	29,34,34	1.36	4 (13%)	35,54,54	1.66	6 (17%)
43	GDP	HF	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.14	3 (10%)
45	GTP	AE	501	44	29,34,34	1.19	2 (6%)	35,54,54	1.35	4 (11%)
43	GDP	WL	501	-	25,30,30	0.94	1 (4%)	30,47,47	1.09	2 (6%)
43	GDP	UF	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.13	2 (6%)
45	GTP	UG	501	44	29,34,34	1.19	2 (6%)	35,54,54	1.31	4 (11%)
43	GDP	KL	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.09	2 (6%)
45	GTP	BC	501	44	29,34,34	1.32	3 (10%)	35,54,54	1.29	4 (11%)
45	GTP	NE	501	44	29,34,34	1.14	2 (6%)	35,54,54	1.38	5 (14%)
43	GDP	LN	501	-	25,30,30	0.93	1 (4%)	30,47,47	1.08	1 (3%)
43	GDP	BD	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.10	2 (6%)
43	GDP	SD	501	-	25,30,30	0.93	1 (4%)	30,47,47	1.10	2 (6%)
43	GDP	EH	501	-	25,30,30	1.05	1 (4%)	30,47,47	2.09	5 (16%)
43	GDP	RB	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.17	2 (6%)
43	GDP	NF	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.08	1 (3%)
45	GTP	PE	501	44	29,34,34	1.25	2 (6%)	35,54,54	1.43	6 (17%)
45	GTP	PA	501	-	29,34,34	1.25	1 (3%)	35,54,54	1.41	5 (14%)
43	GDP	BF	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.12	2 (6%)
45	GTP	GE	501	44	29,34,34	1.23	2 (6%)	35,54,54	1.38	5 (14%)
45	GTP	LF	502	44	29,34,34	1.24	3 (10%)	35,54,54	1.39	4 (11%)
45	GTP	TE	501	44	29,34,34	1.27	2 (6%)	35,54,54	1.52	6 (17%)
43	GDP	DJ	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.09	1 (3%)
43	GDP	BB	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.30	6 (20%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
43	GDP	ND	501	-	25,30,30	1.01	1 (4%)	30,47,47	1.03	1 (3%)
43	GDP	OL	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.22	3 (10%)
45	GTP	BE	501	44	29,34,34	1.24	2 (6%)	35,54,54	1.31	4 (11%)
43	GDP	HH	501	-	25,30,30	1.13	2 (8%)	30,47,47	1.76	4 (13%)
43	GDP	PB	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.26	4 (13%)
45	GTP	FE	501	44	29,34,34	1.25	2 (6%)	35,54,54	1.38	5 (14%)
45	GTP	CE	501	44	29,34,34	1.26	1 (3%)	35,54,54	1.26	4 (11%)
43	GDP	HL	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.12	3 (10%)
43	GDP	LJ	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.14	3 (10%)
45	GTP	VC	501	44	29,34,34	1.27	2 (6%)	35,54,54	1.38	5 (14%)
45	GTP	WG	501	44	29,34,34	1.22	2 (6%)	35,54,54	1.35	5 (14%)
45	GTP	JC	501	44	29,34,34	1.20	1 (3%)	35,54,54	1.33	3 (8%)
43	GDP	JD	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.06	2 (6%)
43	GDP	SJ	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.15	1 (3%)
45	GTP	DK	501	-	29,34,34	1.29	4 (13%)	35,54,54	1.53	7 (20%)
43	GDP	LH	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.13	3 (10%)
45	GTP	II	501	-	29,34,34	1.25	2 (6%)	35,54,54	1.29	3 (8%)
45	GTP	LM	501	44	29,34,34	1.27	2 (6%)	35,54,54	1.34	6 (17%)
43	GDP	VD	501	-	25,30,30	0.94	1 (4%)	30,47,47	1.11	2 (6%)
43	GDP	FD	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.13	2 (6%)
43	GDP	CL	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.08	2 (6%)
43	GDP	OJ	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.27	3 (10%)
43	GDP	BJ	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.09	2 (6%)
43	GDP	KN	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.06	2 (6%)
45	GTP	CG	501	-	29,34,34	1.22	1 (3%)	35,54,54	1.27	5 (14%)
43	GDP	JF	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.11	2 (6%)
43	GDP	QJ	501	-	25,30,30	1.00	1 (4%)	30,47,47	1.28	5 (16%)
45	GTP	KG	501	44	29,34,34	1.29	3 (10%)	35,54,54	1.28	4 (11%)
45	GTP	JM	501	44	29,34,34	1.20	2 (6%)	35,54,54	1.26	4 (11%)
45	GTP	GM	501	44	29,34,34	1.19	2 (6%)	35,54,54	1.31	4 (11%)
45	GTP	AC	501	44	29,34,34	1.21	2 (6%)	35,54,54	1.30	5 (14%)
45	GTP	VM	501	44	29,34,34	1.22	1 (3%)	35,54,54	1.42	6 (17%)
43	GDP	AJ	501	-	25,30,30	0.94	1 (4%)	30,47,47	1.18	3 (10%)
43	GDP	TH	501	-	25,30,30	1.02	1 (4%)	30,47,47	1.09	2 (6%)
45	GTP	NI	501	44	29,34,34	1.22	1 (3%)	35,54,54	1.40	6 (17%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
43	GDP	OH	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.05	2 (6%)
45	GTP	QC	501	-	29,34,34	1.28	2 (6%)	35,54,54	1.24	3 (8%)
45	GTP	LE	501	44	29,34,34	1.22	2 (6%)	35,54,54	1.39	5 (14%)
43	GDP	QB	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.12	2 (6%)
45	GTP	MK	501	44	29,34,34	1.26	2 (6%)	35,54,54	1.37	4 (11%)
45	GTP	TK	501	44	29,34,34	1.24	2 (6%)	35,54,54	1.33	6 (17%)
45	GTP	VI	501	44	29,34,34	1.27	2 (6%)	35,54,54	1.31	5 (14%)
45	GTP	AI	501	44	29,34,34	1.25	2 (6%)	35,54,54	1.32	4 (11%)
45	GTP	VK	501	44	29,34,34	1.28	2 (6%)	35,54,54	1.42	5 (14%)
43	GDP	MH	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.11	2 (6%)
45	GTP	PI	501	44	29,34,34	1.23	2 (6%)	35,54,54	1.33	4 (11%)
45	GTP	WM	501	44	29,34,34	1.21	2 (6%)	35,54,54	1.35	6 (17%)
43	GDP	OF	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.14	2 (6%)
43	GDP	RJ	501	-	25,30,30	0.90	1 (4%)	30,47,47	1.39	4 (13%)
45	GTP	UI	501	44	29,34,34	1.11	1 (3%)	35,54,54	1.51	4 (11%)
43	GDP	FL	501	-	25,30,30	0.94	1 (4%)	30,47,47	1.02	1 (3%)
45	GTP	SC	501	44	29,34,34	1.23	2 (6%)	35,54,54	1.30	4 (11%)
43	GDP	AL	501	-	25,30,30	0.94	1 (4%)	30,47,47	1.18	3 (10%)
45	GTP	PG	501	44	29,34,34	1.23	1 (3%)	35,54,54	1.30	3 (8%)
43	GDP	DB	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.11	3 (10%)
45	GTP	EK	501	44	29,34,34	1.23	2 (6%)	35,54,54	1.31	3 (8%)
45	GTP	VE	501	44	29,34,34	1.24	2 (6%)	35,54,54	1.26	4 (11%)
43	GDP	HJ	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.12	3 (10%)
43	GDP	CF	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.24	4 (13%)
45	GTP	IE	501	44	29,34,34	1.25	2 (6%)	35,54,54	1.38	7 (20%)
43	GDP	WF	501	-	25,30,30	0.93	1 (4%)	30,47,47	1.05	2 (6%)
45	GTP	FI	501	44	29,34,34	1.20	2 (6%)	35,54,54	1.28	4 (11%)
45	GTP	WI	501	44	29,34,34	1.21	2 (6%)	35,54,54	1.67	6 (17%)
45	GTP	SE	501	44	29,34,34	1.20	2 (6%)	35,54,54	1.39	5 (14%)
45	GTP	BK	501	44	29,34,34	1.20	3 (10%)	35,54,54	1.50	6 (17%)
45	GTP	MI	501	44	29,34,34	1.22	1 (3%)	35,54,54	1.22	3 (8%)
43	GDP	PD	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.21	4 (13%)
45	GTP	OA	501	44	29,34,34	1.33	5 (17%)	35,54,54	1.29	5 (14%)
43	GDP	FF	501	-	25,30,30	1.29	2 (8%)	30,47,47	1.61	5 (16%)
43	GDP	HD	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.10	2 (6%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
45	GTP	RI	501	-	29,34,34	1.12	2 (6%)	35,54,54	1.74	6 (17%)
43	GDP	ED	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.07	2 (6%)
45	GTP	SG	501	44	29,34,34	1.26	2 (6%)	35,54,54	1.49	6 (17%)
45	GTP	JG	501	44	29,34,34	1.29	3 (10%)	35,54,54	1.34	5 (14%)
45	GTP	KE	501	44	29,34,34	1.27	2 (6%)	35,54,54	1.31	5 (14%)
43	GDP	RF	501	-	25,30,30	0.93	1 (4%)	30,47,47	1.15	2 (6%)
45	GTP	RE	501	-	29,34,34	1.27	2 (6%)	35,54,54	1.43	7 (20%)
45	GTP	EG	501	-	29,34,34	1.31	2 (6%)	35,54,54	1.32	4 (11%)
43	GDP	AF	501	-	25,30,30	0.94	1 (4%)	30,47,47	1.12	2 (6%)
43	GDP	DH	501	-	25,30,30	1.01	1 (4%)	30,47,47	1.31	3 (10%)
43	GDP	KF	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.06	2 (6%)
45	GTP	WE	501	44	29,34,34	1.25	2 (6%)	35,54,54	1.24	4 (11%)
45	GTP	QI	501	-	29,34,34	1.21	2 (6%)	35,54,54	1.27	4 (11%)
43	GDP	VL	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.07	3 (10%)
43	GDP	MJ	501	-	25,30,30	1.01	1 (4%)	30,47,47	1.13	3 (10%)
45	GTP	LK	501	44	29,34,34	1.29	4 (13%)	35,54,54	1.30	6 (17%)
45	GTP	GF	502	44	29,34,34	1.26	2 (6%)	35,54,54	1.35	5 (14%)
45	GTP	HC	501	44	29,34,34	1.25	2 (6%)	35,54,54	1.40	5 (14%)
43	GDP	NB	501	-	25,30,30	0.93	1 (4%)	30,47,47	1.10	2 (6%)
45	GTP	PK	501	-	29,34,34	1.25	2 (6%)	35,54,54	1.30	4 (11%)
45	GTP	DG	501	-	29,34,34	1.24	2 (6%)	35,54,54	1.43	5 (14%)
43	GDP	GD	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.07	2 (6%)
45	GTP	RC	501	-	29,34,34	1.20	2 (6%)	35,54,54	1.24	4 (11%)
45	GTP	AF	502	44	29,34,34	1.25	2 (6%)	35,54,54	1.38	7 (20%)
43	GDP	KJ	501	-	25,30,30	0.94	1 (4%)	30,47,47	1.11	2 (6%)
45	GTP	NC	501	44	29,34,34	1.19	2 (6%)	35,54,54	1.34	4 (11%)
45	GTP	UE	501	44	29,34,34	1.22	2 (6%)	35,54,54	1.36	6 (17%)
43	GDP	NJ	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.12	2 (6%)
43	GDP	JH	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.26	3 (10%)
43	GDP	UD	501	-	25,30,30	0.91	1 (4%)	30,47,47	1.09	2 (6%)
43	GDP	GH	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.14	1 (3%)
45	GTP	AK	501	44	29,34,34	1.23	2 (6%)	35,54,54	1.34	4 (11%)
43	GDP	EL	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.13	3 (10%)
43	GDP	CD	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.07	2 (6%)
43	GDP	TD	501	-	25,30,30	1.00	2 (8%)	30,47,47	1.24	3 (10%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
45	GTP	TM	501	44	29,34,34	1.18	2 (6%)	35,54,54	1.42	7 (20%)
45	GTP	WK	501	44	29,34,34	1.25	2 (6%)	35,54,54	1.34	4 (11%)
43	GDP	IH	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.13	3 (10%)
43	GDP	RH	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.13	1 (3%)
43	GDP	QL	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.12	2 (6%)
45	GTP	LC	501	44	29,34,34	1.24	2 (6%)	35,54,54	1.31	4 (11%)
45	GTP	KM	501	44	29,34,34	1.22	2 (6%)	35,54,54	1.31	4 (11%)
45	GTP	RK	501	-	29,34,34	1.20	2 (6%)	35,54,54	1.39	4 (11%)
45	GTP	EE	501	-	29,34,34	1.25	2 (6%)	35,54,54	1.29	4 (11%)
45	GTP	KI	501	44	29,34,34	1.22	2 (6%)	35,54,54	1.32	5 (14%)
43	GDP	SH	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.08	3 (10%)
45	GTP	VG	501	44	29,34,34	1.29	2 (6%)	35,54,54	1.31	5 (14%)
43	GDP	AH	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.06	2 (6%)
43	GDP	FH	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.03	2 (6%)
45	GTP	HK	501	44	29,34,34	1.31	2 (6%)	35,54,54	1.42	6 (17%)
45	GTP	PC	501	44	29,34,34	1.29	2 (6%)	35,54,54	1.39	6 (17%)
45	GTP	OI	501	44	29,34,34	1.24	2 (6%)	35,54,54	1.37	6 (17%)
43	GDP	NH	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.08	2 (6%)
45	GTP	FC	501	44	29,34,34	1.30	4 (13%)	35,54,54	1.40	4 (11%)
45	GTP	GK	501	44	29,34,34	1.20	2 (6%)	35,54,54	1.33	5 (14%)
43	GDP	MN	501	-	25,30,30	0.92	1 (4%)	30,47,47	1.14	3 (10%)
45	GTP	UM	501	44	29,34,34	1.14	1 (3%)	35,54,54	1.39	4 (11%)
45	GTP	BI	501	44	29,34,34	1.25	2 (6%)	35,54,54	1.38	5 (14%)
43	GDP	EF	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.10	2 (6%)
43	GDP	PL	501	-	25,30,30	1.12	2 (8%)	30,47,47	1.14	3 (10%)
43	GDP	UJ	501	-	25,30,30	1.39	3 (12%)	30,47,47	1.69	6 (20%)
45	GTP	CI	501	44	29,34,34	1.26	2 (6%)	35,54,54	1.51	5 (14%)
45	GTP	QK	501	-	29,34,34	1.24	3 (10%)	35,54,54	1.41	4 (11%)
45	GTP	NK	501	44	29,34,34	1.33	4 (13%)	35,54,54	1.33	4 (11%)
43	GDP	IN	501	-	25,30,30	0.91	0	30,47,47	1.19	4 (13%)
43	GDP	IJ	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.10	2 (6%)
43	GDP	MF	501	-	25,30,30	1.13	2 (8%)	30,47,47	1.25	2 (6%)
45	GTP	QE	501	-	29,34,34	1.11	3 (10%)	35,54,54	1.86	5 (14%)
43	GDP	WD	501	-	25,30,30	0.93	1 (4%)	30,47,47	1.06	2 (6%)
45	GTP	IG	501	44	29,34,34	1.21	2 (6%)	35,54,54	1.32	4 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
43	GDP	DD	501	-	25,30,30	0.93	1 (4%)	30,47,47	1.24	4 (13%)
45	GTP	JK	501	44	29,34,34	1.23	2 (6%)	35,54,54	1.33	4 (11%)
43	GDP	GJ	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.14	3 (10%)
45	GTP	HI	501	44	29,34,34	1.30	3 (10%)	35,54,54	1.34	6 (17%)
45	GTP	JI	501	44	29,34,34	1.23	2 (6%)	35,54,54	1.31	4 (11%)
43	GDP	VH	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.13	2 (6%)
43	GDP	HB	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.12	2 (6%)
45	GTP	IC	501	44	29,34,34	1.26	1 (3%)	35,54,54	1.17	4 (11%)
45	GTP	ME	501	44	29,34,34	1.25	2 (6%)	35,54,54	1.40	5 (14%)
43	GDP	WH	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.10	2 (6%)
45	GTP	OC	501	44	29,34,34	1.19	2 (6%)	35,54,54	1.42	7 (20%)
43	GDP	UL	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.15	2 (6%)
45	GTP	FK	501	44	29,34,34	1.34	4 (13%)	35,54,54	1.37	6 (17%)
43	GDP	JJ	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.16	3 (10%)
45	GTP	MG	501	-	29,34,34	1.23	2 (6%)	35,54,54	1.26	3 (8%)
43	GDP	WJ	501	-	25,30,30	1.00	1 (4%)	30,47,47	1.15	2 (6%)
43	GDP	AB	501	-	25,30,30	0.90	1 (4%)	30,47,47	1.05	2 (6%)
43	GDP	VF	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.11	3 (10%)
43	GDP	QH	501	-	25,30,30	1.02	1 (4%)	30,47,47	1.28	4 (13%)
43	GDP	MD	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.09	2 (6%)
43	GDP	PF	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.14	3 (10%)
43	GDP	WN	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.03	1 (3%)
45	GTP	CC	501	44	29,34,34	1.27	3 (10%)	35,54,54	1.29	4 (11%)
45	GTP	QG	501	-	29,34,34	1.20	2 (6%)	35,54,54	1.40	5 (14%)
43	GDP	IL	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.38	5 (16%)
43	GDP	DF	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.20	2 (6%)
43	GDP	BL	501	-	25,30,30	1.03	2 (8%)	30,47,47	1.17	3 (10%)
43	GDP	VJ	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.08	3 (10%)
45	GTP	OG	501	-	29,34,34	1.24	2 (6%)	35,54,54	1.30	4 (11%)
43	GDP	BH	501	-	25,30,30	0.94	1 (4%)	30,47,47	1.06	2 (6%)
45	GTP	EC	501	-	29,34,34	1.22	2 (6%)	35,54,54	1.32	4 (11%)
45	GTP	HM	501	44	29,34,34	1.29	4 (13%)	35,54,54	1.42	7 (20%)
43	GDP	GL	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.08	2 (6%)
45	GTP	SI	501	44	29,34,34	1.25	2 (6%)	35,54,54	1.26	4 (11%)
43	GDP	CJ	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.10	2 (6%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
43	GDP	LF	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.07	2 (6%)
43	GDP	GF	501	-	25,30,30	0.94	1 (4%)	30,47,47	1.06	2 (6%)
43	GDP	KG	503	-	25,30,30	0.97	1 (4%)	30,47,47	1.17	1 (3%)
43	GDP	PH	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.14	3 (10%)
45	GTP	JE	501	44	29,34,34	1.42	4 (13%)	35,54,54	1.49	5 (14%)
45	GTP	EI	501	-	29,34,34	1.31	1 (3%)	35,54,54	1.28	5 (14%)
43	GDP	NL	501	-	25,30,30	0.94	1 (4%)	30,47,47	1.17	2 (6%)
43	GDP	ML	501	-	25,30,30	0.92	1 (4%)	30,47,47	1.37	4 (13%)
45	GTP	DC	501	-	29,34,34	1.16	1 (3%)	35,54,54	1.33	5 (14%)
43	GDP	IF	501	-	25,30,30	1.01	1 (4%)	30,47,47	1.17	3 (10%)
43	GDP	CB	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
45	GTP	GC	501	44	29,34,34	1.31	3 (10%)	35,54,54	1.77	6 (17%)
45	GTP	HG	501	44	29,34,34	1.23	1 (3%)	35,54,54	1.28	5 (14%)
43	GDP	DL	501	-	25,30,30	0.92	1 (4%)	30,47,47	1.19	3 (10%)
45	GTP	LI	501	44	29,34,34	1.23	2 (6%)	35,54,54	1.34	4 (11%)
45	GTP	TC	501	44	29,34,34	1.23	2 (6%)	35,54,54	1.38	3 (8%)
43	GDP	LL	501	-	25,30,30	0.94	1 (4%)	30,47,47	1.08	2 (6%)
43	GDP	TF	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.10	2 (6%)
43	GDP	TL	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.10	3 (10%)
45	GTP	SM	501	-	29,34,34	1.22	2 (6%)	35,54,54	1.33	5 (14%)
43	GDP	QD	501	-	25,30,30	0.94	1 (4%)	30,47,47	1.09	2 (6%)
43	GDP	QF	501	-	25,30,30	1.00	1 (4%)	30,47,47	1.10	2 (6%)
45	GTP	OE	501	44	29,34,34	1.23	2 (6%)	35,54,54	1.35	3 (8%)
45	GTP	UC	501	-	29,34,34	1.37	3 (10%)	35,54,54	1.41	5 (14%)
45	GTP	CM	501	44	29,34,34	1.18	1 (3%)	35,54,54	1.35	5 (14%)
45	GTP	NA	501	44	29,34,34	1.20	2 (6%)	35,54,54	1.41	6 (17%)
45	GTP	RG	501	-	29,34,34	1.23	2 (6%)	35,54,54	1.57	9 (25%)
45	GTP	DI	501	-	29,34,34	1.19	2 (6%)	35,54,54	1.31	4 (11%)
45	GTP	OK	501	44	29,34,34	1.34	4 (13%)	35,54,54	1.38	5 (14%)
45	GTP	SK	501	44	29,34,34	1.22	1 (3%)	35,54,54	1.42	5 (14%)
43	GDP	OB	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.13	3 (10%)
45	GTP	KC	501	44	29,34,34	1.19	2 (6%)	35,54,54	1.35	5 (14%)
43	GDP	SF	501	-	25,30,30	0.92	1 (4%)	30,47,47	1.12	2 (6%)
45	GTP	MC	501	44	29,34,34	1.26	2 (6%)	35,54,54	1.39	6 (17%)
43	GDP	AD	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.09	2 (6%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
45	GTP	GI	501	44	29,34,34	1.28	2 (6%)	35,54,54	1.53	6 (17%)
43	GDP	KD	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.09	2 (6%)
43	GDP	RD	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.08	2 (6%)
45	GTP	DM	501	44	29,34,34	1.24	3 (10%)	35,54,54	1.34	5 (14%)
45	GTP	HE	501	44	29,34,34	1.26	2 (6%)	35,54,54	1.32	3 (8%)
45	GTP	KK	501	44	29,34,34	1.27	1 (3%)	35,54,54	1.39	5 (14%)
45	GTP	IM	501	44	29,34,34	1.25	1 (3%)	35,54,54	1.35	4 (11%)
43	GDP	RL	501	-	25,30,30	0.94	1 (4%)	30,47,47	1.10	3 (10%)
43	GDP	CH	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.09	2 (6%)
45	GTP	FM	501	44	29,34,34	1.27	2 (6%)	35,54,54	1.33	4 (11%)
45	GTP	TG	501	44	29,34,34	1.20	2 (6%)	35,54,54	1.25	4 (11%)
43	GDP	OD	501	-	25,30,30	1.03	2 (8%)	30,47,47	1.13	2 (6%)
45	GTP	CK	501	44	29,34,34	1.25	2 (6%)	35,54,54	1.42	6 (17%)
43	GDP	ID	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.12	3 (10%)
45	GTP	UK	501	44	29,34,34	1.30	3 (10%)	35,54,54	1.43	5 (14%)
43	GDP	SL	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.24	3 (10%)
45	GTP	FF	502	44	29,34,34	1.20	2 (6%)	35,54,54	1.32	4 (11%)
45	GTP	DE	501	-	29,34,34	1.24	3 (10%)	35,54,54	1.38	4 (11%)
43	GDP	PJ	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.14	3 (10%)
43	GDP	FJ	501	-	25,30,30	0.92	1 (4%)	30,47,47	1.09	1 (3%)
43	GDP	TJ	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.11	2 (6%)
45	GTP	MM	501	44	29,34,34	1.19	2 (6%)	35,54,54	1.36	4 (11%)
45	GTP	BG	501	44	29,34,34	1.22	2 (6%)	35,54,54	1.33	5 (14%)
45	GTP	NG	501	44	29,34,34	1.17	1 (3%)	35,54,54	1.35	5 (14%)
45	GTP	WC	501	44	29,34,34	1.22	2 (6%)	35,54,54	1.26	4 (11%)
43	GDP	EJ	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.18	2 (6%)
43	GDP	UH	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.08	2 (6%)
45	GTP	TI	501	44	29,34,34	1.27	3 (10%)	35,54,54	1.33	4 (11%)

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
43	GDP	LD	501	-	-	4/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
45	GTP	EM	501	-	-	6/18/38/38	0/3/3/3
43	GDP	JL	501	-	-	0/12/32/32	0/3/3/3
45	GTP	IK	501	44	-	4/18/38/38	0/3/3/3
43	GDP	HF	501	-	-	2/12/32/32	0/3/3/3
45	GTP	AE	501	44	-	4/18/38/38	0/3/3/3
43	GDP	WL	501	-	-	2/12/32/32	0/3/3/3
43	GDP	UF	501	-	-	0/12/32/32	0/3/3/3
45	GTP	UG	501	44	-	4/18/38/38	0/3/3/3
43	GDP	KL	501	-	-	0/12/32/32	0/3/3/3
45	GTP	BC	501	44	-	4/18/38/38	0/3/3/3
45	GTP	NE	501	44	-	4/18/38/38	0/3/3/3
43	GDP	LN	501	-	-	3/12/32/32	0/3/3/3
43	GDP	BD	501	-	-	1/12/32/32	0/3/3/3
43	GDP	SD	501	-	-	1/12/32/32	0/3/3/3
43	GDP	EH	501	-	-	1/12/32/32	0/3/3/3
43	GDP	RB	501	-	-	1/12/32/32	0/3/3/3
43	GDP	NF	501	-	-	3/12/32/32	0/3/3/3
45	GTP	PE	501	44	-	5/18/38/38	0/3/3/3
45	GTP	PA	501	-	-	5/18/38/38	0/3/3/3
43	GDP	BF	501	-	-	2/12/32/32	0/3/3/3
45	GTP	GE	501	44	-	4/18/38/38	0/3/3/3
45	GTP	LF	502	44	-	9/18/38/38	0/3/3/3
45	GTP	TE	501	44	-	6/18/38/38	0/3/3/3
43	GDP	DJ	501	-	-	1/12/32/32	0/3/3/3
43	GDP	BB	501	-	-	3/12/32/32	0/3/3/3
43	GDP	ND	501	-	-	1/12/32/32	0/3/3/3
43	GDP	OL	501	-	-	2/12/32/32	0/3/3/3
45	GTP	BE	501	44	-	5/18/38/38	0/3/3/3
43	GDP	HH	501	-	-	6/12/32/32	0/3/3/3
43	GDP	PB	501	-	-	2/12/32/32	0/3/3/3
45	GTP	FE	501	44	-	4/18/38/38	0/3/3/3
45	GTP	CE	501	44	-	3/18/38/38	0/3/3/3
43	GDP	HL	501	-	-	2/12/32/32	0/3/3/3
43	GDP	LJ	501	-	-	6/12/32/32	0/3/3/3
45	GTP	VC	501	44	-	4/18/38/38	0/3/3/3
45	GTP	WG	501	44	-	5/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
45	GTP	JC	501	44	-	1/18/38/38	0/3/3/3
43	GDP	JD	501	-	-	0/12/32/32	0/3/3/3
43	GDP	SJ	501	-	-	3/12/32/32	0/3/3/3
45	GTP	DK	501	-	-	5/18/38/38	0/3/3/3
43	GDP	LH	501	-	-	3/12/32/32	0/3/3/3
45	GTP	II	501	-	-	3/18/38/38	0/3/3/3
45	GTP	LM	501	44	-	6/18/38/38	0/3/3/3
43	GDP	VD	501	-	-	5/12/32/32	0/3/3/3
43	GDP	FD	501	-	-	4/12/32/32	0/3/3/3
43	GDP	CL	501	-	-	2/12/32/32	0/3/3/3
43	GDP	OJ	501	-	-	2/12/32/32	0/3/3/3
43	GDP	BJ	501	-	-	2/12/32/32	0/3/3/3
43	GDP	KN	501	-	-	2/12/32/32	0/3/3/3
45	GTP	CG	501	-	-	5/18/38/38	0/3/3/3
43	GDP	JF	501	-	-	0/12/32/32	0/3/3/3
43	GDP	QJ	501	-	-	1/12/32/32	0/3/3/3
45	GTP	KG	501	44	-	5/18/38/38	0/3/3/3
45	GTP	JM	501	44	-	3/18/38/38	0/3/3/3
45	GTP	GM	501	44	-	5/18/38/38	0/3/3/3
45	GTP	AC	501	44	-	6/18/38/38	0/3/3/3
45	GTP	VM	501	44	-	5/18/38/38	0/3/3/3
43	GDP	AJ	501	-	-	2/12/32/32	0/3/3/3
43	GDP	TH	501	-	-	2/12/32/32	0/3/3/3
45	GTP	NI	501	44	-	7/18/38/38	0/3/3/3
43	GDP	OH	501	-	-	0/12/32/32	0/3/3/3
45	GTP	QC	501	-	-	8/18/38/38	0/3/3/3
45	GTP	LE	501	44	-	6/18/38/38	0/3/3/3
43	GDP	QB	501	-	-	1/12/32/32	0/3/3/3
45	GTP	MK	501	44	-	7/18/38/38	0/3/3/3
45	GTP	TK	501	44	-	3/18/38/38	0/3/3/3
45	GTP	VI	501	44	-	6/18/38/38	0/3/3/3
45	GTP	AI	501	44	-	7/18/38/38	0/3/3/3
45	GTP	VK	501	44	-	5/18/38/38	0/3/3/3
43	GDP	MH	501	-	-	2/12/32/32	0/3/3/3
45	GTP	PI	501	44	-	1/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
45	GTP	WM	501	44	-	6/18/38/38	0/3/3/3
43	GDP	OF	501	-	-	3/12/32/32	0/3/3/3
43	GDP	RJ	501	-	-	2/12/32/32	0/3/3/3
45	GTP	UI	501	44	-	7/18/38/38	0/3/3/3
43	GDP	FL	501	-	-	3/12/32/32	0/3/3/3
45	GTP	SC	501	44	-	4/18/38/38	0/3/3/3
43	GDP	AL	501	-	-	2/12/32/32	0/3/3/3
45	GTP	PG	501	44	-	8/18/38/38	0/3/3/3
43	GDP	DB	501	-	-	6/12/32/32	0/3/3/3
45	GTP	EK	501	44	-	3/18/38/38	0/3/3/3
45	GTP	VE	501	44	-	4/18/38/38	0/3/3/3
43	GDP	HJ	501	-	-	3/12/32/32	0/3/3/3
43	GDP	CF	501	-	-	3/12/32/32	0/3/3/3
45	GTP	IE	501	44	-	5/18/38/38	0/3/3/3
43	GDP	WF	501	-	-	1/12/32/32	0/3/3/3
45	GTP	FI	501	44	-	4/18/38/38	0/3/3/3
45	GTP	WI	501	44	-	2/18/38/38	0/3/3/3
45	GTP	SE	501	44	-	6/18/38/38	0/3/3/3
45	GTP	BK	501	44	-	8/18/38/38	0/3/3/3
45	GTP	MI	501	44	-	7/18/38/38	0/3/3/3
43	GDP	PD	501	-	-	3/12/32/32	0/3/3/3
45	GTP	OA	501	44	-	7/18/38/38	0/3/3/3
43	GDP	FF	501	-	-	3/12/32/32	0/3/3/3
43	GDP	HD	501	-	-	5/12/32/32	0/3/3/3
45	GTP	RI	501	-	-	5/18/38/38	0/3/3/3
43	GDP	ED	501	-	-	1/12/32/32	0/3/3/3
45	GTP	SG	501	44	-	4/18/38/38	0/3/3/3
45	GTP	JG	501	44	-	3/18/38/38	0/3/3/3
45	GTP	KE	501	44	-	6/18/38/38	0/3/3/3
43	GDP	RF	501	-	-	0/12/32/32	0/3/3/3
45	GTP	RE	501	-	-	7/18/38/38	0/3/3/3
45	GTP	EG	501	-	-	4/18/38/38	0/3/3/3
43	GDP	AF	501	-	-	3/12/32/32	0/3/3/3
43	GDP	DH	501	-	-	1/12/32/32	0/3/3/3
43	GDP	KF	501	-	-	3/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
45	GTP	WE	501	44	-	5/18/38/38	0/3/3/3
45	GTP	QI	501	-	-	6/18/38/38	0/3/3/3
43	GDP	VL	501	-	-	2/12/32/32	0/3/3/3
43	GDP	MJ	501	-	-	4/12/32/32	0/3/3/3
45	GTP	LK	501	44	-	9/18/38/38	0/3/3/3
45	GTP	GF	502	44	-	6/18/38/38	0/3/3/3
45	GTP	HC	501	44	-	6/18/38/38	0/3/3/3
43	GDP	NB	501	-	-	4/12/32/32	0/3/3/3
45	GTP	PK	501	-	-	3/18/38/38	0/3/3/3
45	GTP	DG	501	-	-	7/18/38/38	0/3/3/3
43	GDP	GD	501	-	-	3/12/32/32	0/3/3/3
45	GTP	RC	501	-	-	7/18/38/38	0/3/3/3
45	GTP	AF	502	44	-	7/18/38/38	0/3/3/3
43	GDP	KJ	501	-	-	1/12/32/32	0/3/3/3
45	GTP	NC	501	44	-	7/18/38/38	0/3/3/3
45	GTP	UE	501	44	-	4/18/38/38	0/3/3/3
43	GDP	NJ	501	-	-	2/12/32/32	0/3/3/3
43	GDP	JH	501	-	-	1/12/32/32	0/3/3/3
43	GDP	UD	501	-	-	4/12/32/32	0/3/3/3
43	GDP	GH	501	-	-	2/12/32/32	0/3/3/3
45	GTP	AK	501	44	-	7/18/38/38	0/3/3/3
43	GDP	EL	501	-	-	2/12/32/32	0/3/3/3
43	GDP	CD	501	-	-	2/12/32/32	0/3/3/3
43	GDP	TD	501	-	-	1/12/32/32	0/3/3/3
45	GTP	TM	501	44	-	4/18/38/38	0/3/3/3
45	GTP	WK	501	44	-	7/18/38/38	0/3/3/3
43	GDP	IH	501	-	-	3/12/32/32	0/3/3/3
43	GDP	RH	501	-	-	0/12/32/32	0/3/3/3
43	GDP	QL	501	-	-	3/12/32/32	0/3/3/3
45	GTP	LC	501	44	-	4/18/38/38	0/3/3/3
45	GTP	KM	501	44	-	2/18/38/38	0/3/3/3
45	GTP	RK	501	-	-	3/18/38/38	0/3/3/3
45	GTP	EE	501	-	-	4/18/38/38	0/3/3/3
45	GTP	KI	501	44	-	5/18/38/38	0/3/3/3
43	GDP	SH	501	-	-	0/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
45	GTP	VG	501	44	-	3/18/38/38	0/3/3/3
43	GDP	AH	501	-	-	5/12/32/32	0/3/3/3
43	GDP	FH	501	-	-	1/12/32/32	0/3/3/3
45	GTP	HK	501	44	-	7/18/38/38	0/3/3/3
45	GTP	PC	501	44	-	8/18/38/38	0/3/3/3
45	GTP	OI	501	44	-	6/18/38/38	0/3/3/3
43	GDP	NH	501	-	-	1/12/32/32	0/3/3/3
45	GTP	FC	501	44	-	7/18/38/38	0/3/3/3
45	GTP	GK	501	44	-	6/18/38/38	0/3/3/3
43	GDP	MN	501	-	-	4/12/32/32	0/3/3/3
45	GTP	UM	501	44	-	4/18/38/38	0/3/3/3
45	GTP	BI	501	44	-	6/18/38/38	0/3/3/3
43	GDP	EF	501	-	-	3/12/32/32	0/3/3/3
43	GDP	PL	501	-	-	1/12/32/32	0/3/3/3
43	GDP	UJ	501	-	-	4/12/32/32	0/3/3/3
45	GTP	CI	501	44	-	5/18/38/38	0/3/3/3
45	GTP	QK	501	-	-	6/18/38/38	0/3/3/3
45	GTP	NK	501	44	-	6/18/38/38	0/3/3/3
43	GDP	IN	501	-	-	1/12/32/32	0/3/3/3
43	GDP	IJ	501	-	-	1/12/32/32	0/3/3/3
43	GDP	MF	501	-	-	2/12/32/32	0/3/3/3
45	GTP	QE	501	-	-	6/18/38/38	0/3/3/3
43	GDP	WD	501	-	-	1/12/32/32	0/3/3/3
45	GTP	IG	501	44	-	6/18/38/38	0/3/3/3
43	GDP	DD	501	-	-	1/12/32/32	0/3/3/3
45	GTP	JK	501	44	-	9/18/38/38	0/3/3/3
43	GDP	GJ	501	-	-	0/12/32/32	0/3/3/3
45	GTP	HI	501	44	-	4/18/38/38	0/3/3/3
45	GTP	JI	501	44	-	1/18/38/38	0/3/3/3
43	GDP	VH	501	-	-	1/12/32/32	0/3/3/3
43	GDP	HB	501	-	-	4/12/32/32	0/3/3/3
45	GTP	IC	501	44	-	4/18/38/38	0/3/3/3
45	GTP	ME	501	44	-	5/18/38/38	0/3/3/3
43	GDP	WH	501	-	-	5/12/32/32	0/3/3/3
45	GTP	OC	501	44	-	8/18/38/38	0/3/3/3
43	GDP	UL	501	-	-	1/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
45	GTP	FK	501	44	-	7/18/38/38	0/3/3/3
43	GDP	JJ	501	-	-	1/12/32/32	0/3/3/3
45	GTP	MG	501	-	-	4/18/38/38	0/3/3/3
43	GDP	WJ	501	-	-	3/12/32/32	0/3/3/3
43	GDP	AB	501	-	-	3/12/32/32	0/3/3/3
43	GDP	VF	501	-	-	2/12/32/32	0/3/3/3
43	GDP	QH	501	-	-	2/12/32/32	0/3/3/3
43	GDP	MD	501	-	-	1/12/32/32	0/3/3/3
43	GDP	PF	501	-	-	2/12/32/32	0/3/3/3
43	GDP	WN	501	-	-	0/12/32/32	0/3/3/3
45	GTP	CC	501	44	-	7/18/38/38	0/3/3/3
45	GTP	QG	501	-	-	4/18/38/38	0/3/3/3
43	GDP	IL	501	-	-	6/12/32/32	0/3/3/3
43	GDP	DF	501	-	-	2/12/32/32	0/3/3/3
43	GDP	BL	501	-	-	1/12/32/32	0/3/3/3
43	GDP	VJ	501	-	-	1/12/32/32	0/3/3/3
45	GTP	OG	501	-	-	1/18/38/38	0/3/3/3
43	GDP	BH	501	-	-	4/12/32/32	0/3/3/3
45	GTP	EC	501	-	-	7/18/38/38	0/3/3/3
45	GTP	HM	501	44	-	8/18/38/38	0/3/3/3
43	GDP	GL	501	-	-	2/12/32/32	0/3/3/3
45	GTP	SI	501	44	-	6/18/38/38	0/3/3/3
43	GDP	CJ	501	-	-	2/12/32/32	0/3/3/3
43	GDP	LF	501	-	-	1/12/32/32	0/3/3/3
43	GDP	GF	501	-	-	5/12/32/32	0/3/3/3
43	GDP	KG	503	-	-	0/12/32/32	0/3/3/3
43	GDP	PH	501	-	-	2/12/32/32	0/3/3/3
45	GTP	JE	501	44	-	9/18/38/38	0/3/3/3
45	GTP	EI	501	-	-	3/18/38/38	0/3/3/3
43	GDP	NL	501	-	-	3/12/32/32	0/3/3/3
43	GDP	ML	501	-	-	0/12/32/32	0/3/3/3
45	GTP	DC	501	-	-	11/18/38/38	0/3/3/3
43	GDP	IF	501	-	-	1/12/32/32	0/3/3/3
43	GDP	CB	501	-	-	4/12/32/32	0/3/3/3
45	GTP	GC	501	44	-	5/18/38/38	0/3/3/3
45	GTP	HG	501	44	-	2/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
43	GDP	DL	501	-	-	5/12/32/32	0/3/3/3
45	GTP	LI	501	44	-	4/18/38/38	0/3/3/3
45	GTP	TC	501	44	-	3/18/38/38	0/3/3/3
43	GDP	LL	501	-	-	2/12/32/32	0/3/3/3
43	GDP	TF	501	-	-	1/12/32/32	0/3/3/3
43	GDP	TL	501	-	-	2/12/32/32	0/3/3/3
45	GTP	SM	501	-	-	5/18/38/38	0/3/3/3
43	GDP	QD	501	-	-	1/12/32/32	0/3/3/3
43	GDP	QF	501	-	-	2/12/32/32	0/3/3/3
45	GTP	OE	501	44	-	7/18/38/38	0/3/3/3
45	GTP	UC	501	-	-	6/18/38/38	0/3/3/3
45	GTP	CM	501	44	-	4/18/38/38	0/3/3/3
45	GTP	NA	501	44	-	5/18/38/38	0/3/3/3
45	GTP	RG	501	-	-	6/18/38/38	0/3/3/3
45	GTP	DI	501	-	-	4/18/38/38	0/3/3/3
45	GTP	OK	501	44	-	6/18/38/38	0/3/3/3
45	GTP	SK	501	44	-	6/18/38/38	0/3/3/3
43	GDP	OB	501	-	-	3/12/32/32	0/3/3/3
45	GTP	KC	501	44	-	5/18/38/38	0/3/3/3
43	GDP	SF	501	-	-	1/12/32/32	0/3/3/3
45	GTP	MC	501	44	-	6/18/38/38	0/3/3/3
43	GDP	AD	501	-	-	4/12/32/32	0/3/3/3
45	GTP	GI	501	44	-	2/18/38/38	0/3/3/3
43	GDP	KD	501	-	-	3/12/32/32	0/3/3/3
43	GDP	RD	501	-	-	1/12/32/32	0/3/3/3
45	GTP	DM	501	44	-	2/18/38/38	0/3/3/3
45	GTP	HE	501	44	-	4/18/38/38	0/3/3/3
45	GTP	KK	501	44	-	7/18/38/38	0/3/3/3
45	GTP	IM	501	44	-	6/18/38/38	0/3/3/3
43	GDP	RL	501	-	-	1/12/32/32	0/3/3/3
43	GDP	CH	501	-	-	3/12/32/32	0/3/3/3
45	GTP	FM	501	44	-	3/18/38/38	0/3/3/3
45	GTP	TG	501	44	-	2/18/38/38	0/3/3/3
43	GDP	OD	501	-	-	2/12/32/32	0/3/3/3
45	GTP	CK	501	44	-	5/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
43	GDP	ID	501	-	-	2/12/32/32	0/3/3/3
45	GTP	UK	501	44	-	6/18/38/38	0/3/3/3
43	GDP	SL	501	-	-	1/12/32/32	0/3/3/3
45	GTP	FF	502	44	-	6/18/38/38	0/3/3/3
45	GTP	DE	501	-	-	5/18/38/38	0/3/3/3
43	GDP	PJ	501	-	-	2/12/32/32	0/3/3/3
43	GDP	FJ	501	-	-	4/12/32/32	0/3/3/3
43	GDP	TJ	501	-	-	0/12/32/32	0/3/3/3
45	GTP	MM	501	44	-	6/18/38/38	0/3/3/3
45	GTP	BG	501	44	-	6/18/38/38	0/3/3/3
45	GTP	NG	501	44	-	7/18/38/38	0/3/3/3
45	GTP	WC	501	44	-	0/18/38/38	0/3/3/3
43	GDP	EJ	501	-	-	4/12/32/32	0/3/3/3
43	GDP	UH	501	-	-	2/12/32/32	0/3/3/3
45	GTP	TI	501	44	-	6/18/38/38	0/3/3/3

All (422) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
45	EI	501	GTP	C5-C6	-5.10	1.37	1.47
45	GC	501	GTP	C5-C6	-4.61	1.38	1.47
45	IC	501	GTP	C5-C6	-4.56	1.38	1.47
45	QC	501	GTP	C5-C6	-4.55	1.38	1.47
45	VG	501	GTP	C5-C6	-4.54	1.38	1.47
45	EG	501	GTP	C5-C6	-4.51	1.38	1.47
45	HK	501	GTP	C5-C6	-4.50	1.38	1.47
45	EE	501	GTP	C5-C6	-4.49	1.38	1.47
45	AF	502	GTP	C5-C6	-4.46	1.38	1.47
45	UK	501	GTP	C5-C6	-4.45	1.38	1.47
45	QG	501	GTP	C5-C6	-4.45	1.38	1.47
45	MK	501	GTP	C5-C6	-4.43	1.38	1.47
45	HG	501	GTP	C5-C6	-4.42	1.38	1.47
45	VK	501	GTP	C5-C6	-4.42	1.38	1.47
45	BC	501	GTP	C5-C6	-4.41	1.38	1.47
45	VM	501	GTP	C5-C6	-4.41	1.38	1.47
45	GI	501	GTP	C5-C6	-4.40	1.38	1.47
45	TC	501	GTP	C5-C6	-4.39	1.38	1.47
45	FM	501	GTP	C5-C6	-4.39	1.38	1.47
45	FE	501	GTP	C5-C6	-4.39	1.38	1.47
45	FK	501	GTP	C5-C6	-4.39	1.38	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
45	ME	501	GTP	C5-C6	-4.38	1.38	1.47
45	MC	501	GTP	C5-C6	-4.38	1.38	1.47
45	KE	501	GTP	C5-C6	-4.38	1.38	1.47
45	FC	501	GTP	C5-C6	-4.37	1.38	1.47
45	LM	501	GTP	C5-C6	-4.37	1.38	1.47
45	DG	501	GTP	C5-C6	-4.37	1.38	1.47
45	SM	501	GTP	C5-C6	-4.37	1.38	1.47
45	KG	501	GTP	C5-C6	-4.37	1.38	1.47
45	PE	501	GTP	C5-C6	-4.36	1.38	1.47
45	LE	501	GTP	C5-C6	-4.35	1.38	1.47
45	NK	501	GTP	C5-C6	-4.34	1.38	1.47
45	KK	501	GTP	C5-C6	-4.34	1.38	1.47
45	QK	501	GTP	C5-C6	-4.33	1.38	1.47
45	WC	501	GTP	C5-C6	-4.33	1.38	1.47
45	OK	501	GTP	C5-C6	-4.33	1.38	1.47
45	IM	501	GTP	C5-C6	-4.33	1.38	1.47
45	IE	501	GTP	C5-C6	-4.33	1.38	1.47
45	SI	501	GTP	C5-C6	-4.33	1.38	1.47
45	WK	501	GTP	C5-C6	-4.32	1.38	1.47
45	IG	501	GTP	C5-C6	-4.31	1.38	1.47
45	GF	502	GTP	C5-C6	-4.31	1.38	1.47
45	CC	501	GTP	C5-C6	-4.31	1.38	1.47
45	WG	501	GTP	C5-C6	-4.31	1.38	1.47
45	WE	501	GTP	C5-C6	-4.31	1.38	1.47
45	IK	501	GTP	C5-C6	-4.31	1.38	1.47
45	CG	501	GTP	C5-C6	-4.30	1.38	1.47
45	JI	501	GTP	C5-C6	-4.30	1.38	1.47
45	HC	501	GTP	C5-C6	-4.30	1.38	1.47
45	CI	501	GTP	C5-C6	-4.30	1.38	1.47
45	DK	501	GTP	C5-C6	-4.30	1.39	1.47
45	WM	501	GTP	C5-C6	-4.30	1.39	1.47
45	II	501	GTP	C5-C6	-4.29	1.39	1.47
45	MM	501	GTP	C5-C6	-4.29	1.39	1.47
45	JG	501	GTP	C5-C6	-4.29	1.39	1.47
45	EM	501	GTP	C5-C6	-4.29	1.39	1.47
45	PG	501	GTP	C5-C6	-4.29	1.39	1.47
45	BI	501	GTP	C5-C6	-4.28	1.39	1.47
45	HI	501	GTP	C5-C6	-4.28	1.39	1.47
45	KC	501	GTP	C5-C6	-4.28	1.39	1.47
45	PK	501	GTP	C5-C6	-4.28	1.39	1.47
45	VC	501	GTP	C5-C6	-4.28	1.39	1.47
45	NE	501	GTP	C5-C6	-4.28	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
45	TK	501	GTP	C5-C6	-4.28	1.39	1.47
45	FI	501	GTP	C5-C6	-4.28	1.39	1.47
45	FF	502	GTP	C5-C6	-4.28	1.39	1.47
45	NA	501	GTP	C5-C6	-4.27	1.39	1.47
45	DM	501	GTP	C5-C6	-4.26	1.39	1.47
45	LK	501	GTP	C5-C6	-4.26	1.39	1.47
45	VI	501	GTP	C5-C6	-4.26	1.39	1.47
45	OC	501	GTP	C5-C6	-4.26	1.39	1.47
45	KI	501	GTP	C5-C6	-4.26	1.39	1.47
45	AE	501	GTP	C5-C6	-4.25	1.39	1.47
45	KM	501	GTP	C5-C6	-4.24	1.39	1.47
45	TG	501	GTP	C5-C6	-4.24	1.39	1.47
45	HM	501	GTP	C5-C6	-4.24	1.39	1.47
45	PC	501	GTP	C5-C6	-4.24	1.39	1.47
45	SC	501	GTP	C5-C6	-4.24	1.39	1.47
45	CK	501	GTP	C5-C6	-4.24	1.39	1.47
45	OI	501	GTP	C5-C6	-4.24	1.39	1.47
45	RE	501	GTP	C5-C6	-4.24	1.39	1.47
45	VE	501	GTP	C5-C6	-4.24	1.39	1.47
45	EC	501	GTP	C5-C6	-4.23	1.39	1.47
45	QI	501	GTP	C5-C6	-4.23	1.39	1.47
45	AI	501	GTP	C5-C6	-4.23	1.39	1.47
45	RG	501	GTP	C5-C6	-4.23	1.39	1.47
45	GM	501	GTP	C5-C6	-4.22	1.39	1.47
45	AC	501	GTP	C5-C6	-4.22	1.39	1.47
45	BG	501	GTP	C5-C6	-4.21	1.39	1.47
45	UE	501	GTP	C5-C6	-4.21	1.39	1.47
45	BK	501	GTP	C5-C6	-4.20	1.39	1.47
45	UG	501	GTP	C5-C6	-4.20	1.39	1.47
45	WI	501	GTP	C5-C6	-4.20	1.39	1.47
45	JM	501	GTP	C5-C6	-4.20	1.39	1.47
45	LC	501	GTP	C5-C6	-4.20	1.39	1.47
45	UC	501	GTP	C5-C6	-4.20	1.39	1.47
45	PA	501	GTP	C5-C6	-4.20	1.39	1.47
45	PI	501	GTP	C5-C6	-4.20	1.39	1.47
45	BE	501	GTP	C5-C6	-4.19	1.39	1.47
45	GK	501	GTP	C5-C6	-4.19	1.39	1.47
45	TI	501	GTP	C5-C6	-4.19	1.39	1.47
45	JK	501	GTP	C5-C6	-4.18	1.39	1.47
45	CM	501	GTP	C5-C6	-4.18	1.39	1.47
45	RC	501	GTP	C5-C6	-4.18	1.39	1.47
45	LI	501	GTP	C5-C6	-4.17	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
45	MI	501	GTP	C5-C6	-4.17	1.39	1.47
45	NG	501	GTP	C5-C6	-4.17	1.39	1.47
45	AK	501	GTP	C5-C6	-4.17	1.39	1.47
45	SG	501	GTP	C5-C6	-4.17	1.39	1.47
45	OG	501	GTP	C5-C6	-4.17	1.39	1.47
45	CE	501	GTP	C5-C6	-4.17	1.39	1.47
45	OA	501	GTP	C5-C6	-4.16	1.39	1.47
45	NI	501	GTP	C5-C6	-4.16	1.39	1.47
45	HE	501	GTP	C5-C6	-4.15	1.39	1.47
45	SK	501	GTP	C5-C6	-4.13	1.39	1.47
45	GE	501	GTP	C5-C6	-4.13	1.39	1.47
45	OE	501	GTP	C5-C6	-4.13	1.39	1.47
45	TE	501	GTP	C5-C6	-4.11	1.39	1.47
45	TM	501	GTP	C5-C6	-4.11	1.39	1.47
45	DC	501	GTP	C5-C6	-4.11	1.39	1.47
45	RK	501	GTP	C5-C6	-4.10	1.39	1.47
45	SE	501	GTP	C5-C6	-4.09	1.39	1.47
43	UJ	501	GDP	C2-N2	4.08	1.43	1.34
45	NC	501	GTP	C5-C6	-4.06	1.39	1.47
45	JC	501	GTP	C5-C6	-4.05	1.39	1.47
45	DE	501	GTP	C5-C6	-4.05	1.39	1.47
45	RI	501	GTP	C5-C6	-4.04	1.39	1.47
45	UM	501	GTP	C5-C6	-4.04	1.39	1.47
45	DI	501	GTP	C5-C6	-4.04	1.39	1.47
45	EK	501	GTP	C5-C6	-4.04	1.39	1.47
45	LF	502	GTP	C5-C6	-4.02	1.39	1.47
45	MG	501	GTP	C5-C6	-4.02	1.39	1.47
45	JE	501	GTP	C5-C6	-3.98	1.39	1.47
43	HH	501	GDP	C8-N7	3.67	1.40	1.34
43	FF	501	GDP	C6-N1	-3.59	1.32	1.37
45	UI	501	GTP	C5-C6	-3.55	1.40	1.47
43	MF	501	GDP	PA-O3A	3.44	1.63	1.59
45	JE	501	GTP	PB-O3A	3.14	1.62	1.59
45	JE	501	GTP	PA-O3A	3.13	1.62	1.59
43	FF	501	GDP	C2-N3	3.00	1.40	1.33
45	UC	501	GTP	PA-O3A	2.99	1.62	1.59
43	LH	501	GDP	C6-N1	-2.75	1.33	1.37
45	UC	501	GTP	PB-O3A	2.75	1.62	1.59
43	TH	501	GDP	C6-N1	-2.74	1.33	1.37
43	QH	501	GDP	C6-N1	-2.72	1.33	1.37
45	QE	501	GTP	C8-N7	2.72	1.39	1.34
43	ND	501	GDP	C6-N1	-2.68	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
45	QE	501	GTP	C5-C6	-2.65	1.42	1.47
43	MJ	501	GDP	C6-N1	-2.65	1.33	1.37
43	HD	501	GDP	C6-N1	-2.61	1.33	1.37
43	PL	501	GDP	PA-O3A	2.60	1.62	1.59
43	HJ	501	GDP	C6-N1	-2.60	1.33	1.37
43	TJ	501	GDP	C6-N1	-2.58	1.33	1.37
45	OK	501	GTP	PB-O3B	2.58	1.62	1.59
43	SL	501	GDP	C6-N1	-2.58	1.33	1.37
43	QJ	501	GDP	C6-N1	-2.57	1.33	1.37
45	LF	502	GTP	PB-O3B	2.54	1.62	1.59
43	CB	501	GDP	C6-N1	-2.53	1.33	1.37
45	RI	501	GTP	C2-N3	2.53	1.39	1.33
43	WJ	501	GDP	C6-N1	-2.52	1.33	1.37
43	ID	501	GDP	C6-N1	-2.50	1.34	1.37
45	NK	501	GTP	PB-O3B	2.50	1.62	1.59
43	IH	501	GDP	C6-N1	-2.50	1.34	1.37
43	VF	501	GDP	C6-N1	-2.48	1.34	1.37
43	CF	501	GDP	C6-N1	-2.48	1.34	1.37
45	IK	501	GTP	C2-N3	2.48	1.39	1.33
43	DF	501	GDP	C6-N1	-2.48	1.34	1.37
43	NJ	501	GDP	C6-N1	-2.48	1.34	1.37
45	FK	501	GTP	PA-O3A	2.47	1.62	1.59
43	TF	501	GDP	C6-N1	-2.47	1.34	1.37
43	TD	501	GDP	PA-O3A	2.46	1.62	1.59
45	OA	501	GTP	PA-O3A	2.46	1.62	1.59
43	TL	501	GDP	C6-N1	-2.45	1.34	1.37
43	WF	501	GDP	C6-N1	-2.45	1.34	1.37
43	RD	501	GDP	C6-N1	-2.45	1.34	1.37
43	HL	501	GDP	C6-N1	-2.45	1.34	1.37
43	DJ	501	GDP	C6-N1	-2.44	1.34	1.37
45	GC	501	GTP	C2-N3	2.44	1.39	1.33
43	PH	501	GDP	C6-N1	-2.44	1.34	1.37
43	DB	501	GDP	C6-N1	-2.43	1.34	1.37
45	CI	501	GTP	C2-N3	2.43	1.39	1.33
43	OH	501	GDP	C6-N1	-2.43	1.34	1.37
43	LL	501	GDP	C6-N1	-2.43	1.34	1.37
43	NH	501	GDP	C6-N1	-2.43	1.34	1.37
43	JF	501	GDP	C6-N1	-2.43	1.34	1.37
43	BD	501	GDP	C6-N1	-2.43	1.34	1.37
43	UH	501	GDP	C6-N1	-2.43	1.34	1.37
43	CD	501	GDP	C6-N1	-2.42	1.34	1.37
43	UL	501	GDP	C6-N1	-2.42	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
43	QB	501	GDP	C6-N1	-2.42	1.34	1.37
43	MD	501	GDP	C6-N1	-2.42	1.34	1.37
43	CH	501	GDP	C6-N1	-2.42	1.34	1.37
43	UJ	501	GDP	C2-N1	2.41	1.43	1.37
43	IF	501	GDP	C6-N1	-2.41	1.34	1.37
43	PF	501	GDP	C6-N1	-2.41	1.34	1.37
43	LF	501	GDP	C6-N1	-2.41	1.34	1.37
43	PJ	501	GDP	C6-N1	-2.41	1.34	1.37
43	KG	503	GDP	C6-N1	-2.41	1.34	1.37
43	KJ	501	GDP	C6-N1	-2.41	1.34	1.37
43	HF	501	GDP	C6-N1	-2.40	1.34	1.37
43	GJ	501	GDP	C6-N1	-2.40	1.34	1.37
45	FC	501	GTP	C2-N3	2.40	1.39	1.33
43	GD	501	GDP	C6-N1	-2.40	1.34	1.37
43	KL	501	GDP	C6-N1	-2.40	1.34	1.37
43	BL	501	GDP	PA-O3A	2.40	1.62	1.59
43	EJ	501	GDP	C6-N1	-2.39	1.34	1.37
43	GL	501	GDP	C6-N1	-2.39	1.34	1.37
43	OB	501	GDP	C6-N1	-2.39	1.34	1.37
43	NF	501	GDP	C6-N1	-2.38	1.34	1.37
43	UF	501	GDP	C6-N1	-2.38	1.34	1.37
43	PB	501	GDP	C6-N1	-2.38	1.34	1.37
45	IK	501	GTP	PB-O3A	2.38	1.62	1.59
43	CJ	501	GDP	C6-N1	-2.38	1.34	1.37
43	BF	501	GDP	C6-N1	-2.38	1.34	1.37
43	LN	501	GDP	C6-N1	-2.38	1.34	1.37
43	GF	501	GDP	C6-N1	-2.37	1.34	1.37
43	ED	501	GDP	C6-N1	-2.37	1.34	1.37
43	LD	501	GDP	C6-N1	-2.37	1.34	1.37
43	WN	501	GDP	C6-N1	-2.37	1.34	1.37
43	JL	501	GDP	C6-N1	-2.37	1.34	1.37
43	AJ	501	GDP	C6-N1	-2.37	1.34	1.37
43	MH	501	GDP	C6-N1	-2.36	1.34	1.37
43	KD	501	GDP	C6-N1	-2.36	1.34	1.37
43	AH	501	GDP	C6-N1	-2.36	1.34	1.37
43	KF	501	GDP	C6-N1	-2.36	1.34	1.37
43	RF	501	GDP	C6-N1	-2.36	1.34	1.37
43	EF	501	GDP	C6-N1	-2.36	1.34	1.37
43	RH	501	GDP	C6-N1	-2.36	1.34	1.37
43	BH	501	GDP	C6-N1	-2.36	1.34	1.37
43	KN	501	GDP	C6-N1	-2.36	1.34	1.37
43	NB	501	GDP	C6-N1	-2.36	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
43	MF	501	GDP	C6-N1	-2.35	1.34	1.37
43	QF	501	GDP	C6-N1	-2.35	1.34	1.37
43	OL	501	GDP	C6-N1	-2.35	1.34	1.37
43	QL	501	GDP	C6-N1	-2.35	1.34	1.37
45	FK	501	GTP	PB-O3A	2.35	1.62	1.59
43	UD	501	GDP	C6-N1	-2.34	1.34	1.37
43	WL	501	GDP	C6-N1	-2.34	1.34	1.37
43	AL	501	GDP	C6-N1	-2.34	1.34	1.37
43	JD	501	GDP	C6-N1	-2.34	1.34	1.37
43	AD	501	GDP	C6-N1	-2.34	1.34	1.37
43	LJ	501	GDP	C6-N1	-2.34	1.34	1.37
43	AF	501	GDP	C6-N1	-2.34	1.34	1.37
43	IJ	501	GDP	C6-N1	-2.34	1.34	1.37
43	CL	501	GDP	C6-N1	-2.34	1.34	1.37
43	WH	501	GDP	C6-N1	-2.34	1.34	1.37
43	FD	501	GDP	C6-N1	-2.33	1.34	1.37
43	IL	501	GDP	C6-N1	-2.33	1.34	1.37
43	JJ	501	GDP	C6-N1	-2.33	1.34	1.37
43	WD	501	GDP	C6-N1	-2.33	1.34	1.37
43	TD	501	GDP	C6-N1	-2.33	1.34	1.37
43	EL	501	GDP	C6-N1	-2.33	1.34	1.37
43	OD	501	GDP	C6-N1	-2.32	1.34	1.37
43	VJ	501	GDP	C6-N1	-2.32	1.34	1.37
43	VD	501	GDP	C6-N1	-2.31	1.34	1.37
43	HB	501	GDP	C6-N1	-2.31	1.34	1.37
43	RB	501	GDP	C6-N1	-2.31	1.34	1.37
45	IK	501	GTP	PA-O3A	2.31	1.62	1.59
43	BL	501	GDP	C6-N1	-2.30	1.34	1.37
43	BJ	501	GDP	C6-N1	-2.30	1.34	1.37
45	GI	501	GTP	C2-N3	2.30	1.38	1.33
43	SH	501	GDP	C6-N1	-2.30	1.34	1.37
43	VL	501	GDP	C6-N1	-2.30	1.34	1.37
43	PL	501	GDP	C6-N1	-2.30	1.34	1.37
43	OF	501	GDP	C6-N1	-2.30	1.34	1.37
43	DH	501	GDP	C6-N1	-2.29	1.34	1.37
43	DD	501	GDP	C6-N1	-2.29	1.34	1.37
43	PD	501	GDP	C6-N1	-2.29	1.34	1.37
45	DE	501	GTP	C2-N3	2.29	1.38	1.33
45	TK	501	GTP	C2-N3	2.28	1.38	1.33
43	SD	501	GDP	C6-N1	-2.28	1.34	1.37
45	FC	501	GTP	PA-O3A	2.28	1.62	1.59
45	RC	501	GTP	C2-N3	2.28	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
45	SG	501	GTP	C2-N3	2.27	1.38	1.33
45	WE	501	GTP	C2-N3	2.27	1.38	1.33
45	QG	501	GTP	C2-N3	2.27	1.38	1.33
43	ML	501	GDP	C6-N1	-2.27	1.34	1.37
43	FL	501	GDP	C6-N1	-2.26	1.34	1.37
45	UE	501	GTP	C2-N3	2.26	1.38	1.33
45	BC	501	GTP	PB-O3A	2.25	1.61	1.59
43	RL	501	GDP	C6-N1	-2.25	1.34	1.37
45	BC	501	GTP	PA-O3A	2.25	1.61	1.59
45	DK	501	GTP	PB-O3A	2.25	1.61	1.59
45	SE	501	GTP	C2-N3	2.25	1.38	1.33
43	QD	501	GDP	C6-N1	-2.24	1.34	1.37
45	SM	501	GTP	C2-N3	2.24	1.38	1.33
45	HM	501	GTP	PA-O3A	2.24	1.61	1.59
43	HH	501	GDP	C6-N1	-2.24	1.34	1.37
43	NL	501	GDP	C6-N1	-2.24	1.34	1.37
45	OA	501	GTP	PB-O3B	2.23	1.61	1.59
43	SF	501	GDP	C6-N1	-2.23	1.34	1.37
45	OA	501	GTP	PB-O3A	2.23	1.61	1.59
45	WG	501	GTP	C2-N3	2.23	1.38	1.33
45	OA	501	GTP	C2-N3	2.23	1.38	1.33
45	TC	501	GTP	C2-N3	2.22	1.38	1.33
43	FH	501	GDP	C6-N1	-2.22	1.34	1.37
45	GF	502	GTP	PB-O3A	2.21	1.61	1.59
45	HM	501	GTP	PB-O3A	2.21	1.61	1.59
43	FJ	501	GDP	C6-N1	-2.21	1.34	1.37
45	JG	501	GTP	C2-N3	2.20	1.38	1.33
45	TI	501	GTP	C2-N3	2.19	1.38	1.33
45	DG	501	GTP	C2-N3	2.19	1.38	1.33
45	PK	501	GTP	C2-N3	2.18	1.38	1.33
45	TG	501	GTP	C2-N3	2.18	1.38	1.33
45	DK	501	GTP	PA-O3A	2.18	1.61	1.59
43	OD	501	GDP	PA-O3A	2.18	1.61	1.59
43	MN	501	GDP	C6-N1	-2.18	1.34	1.37
45	OK	501	GTP	PB-O3A	2.18	1.61	1.59
45	MK	501	GTP	C2-N3	2.17	1.38	1.33
45	NK	501	GTP	PB-O3A	2.17	1.61	1.59
45	JI	501	GTP	C2-N3	2.17	1.38	1.33
43	GH	501	GDP	C6-N1	-2.17	1.34	1.37
45	EK	501	GTP	C2-N3	2.17	1.38	1.33
45	NA	501	GTP	C2-N3	2.17	1.38	1.33
45	HC	501	GTP	C2-N3	2.16	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
45	SC	501	GTP	C2-N3	2.16	1.38	1.33
45	QI	501	GTP	C2-N3	2.16	1.38	1.33
43	DL	501	GDP	C6-N1	-2.16	1.34	1.37
45	LE	501	GTP	C2-N3	2.16	1.38	1.33
45	WI	501	GTP	C2-N3	2.15	1.38	1.33
45	AC	501	GTP	C2-N3	2.15	1.38	1.33
45	EG	501	GTP	C2-N3	2.15	1.38	1.33
45	HK	501	GTP	C2-N3	2.15	1.38	1.33
45	SI	501	GTP	C2-N3	2.15	1.38	1.33
45	KC	501	GTP	C2-N3	2.15	1.38	1.33
45	DE	501	GTP	PB-O3B	2.14	1.61	1.59
45	HI	501	GTP	PA-O3A	2.14	1.61	1.59
45	TI	501	GTP	PA-O3A	2.14	1.61	1.59
45	KG	501	GTP	C2-N3	2.14	1.38	1.33
45	TE	501	GTP	PA-O3A	2.14	1.61	1.59
45	EE	501	GTP	C2-N3	2.14	1.38	1.33
45	LC	501	GTP	C2-N3	2.14	1.38	1.33
45	WC	501	GTP	C2-N3	2.14	1.38	1.33
45	FF	502	GTP	C2-N3	2.14	1.38	1.33
45	OK	501	GTP	C2-N3	2.14	1.38	1.33
45	CC	501	GTP	PB-O3A	2.14	1.61	1.59
45	BI	501	GTP	C2-N3	2.14	1.38	1.33
45	VG	501	GTP	C2-N3	2.14	1.38	1.33
45	FK	501	GTP	C2-N3	2.14	1.38	1.33
45	DM	501	GTP	C2-N3	2.13	1.38	1.33
45	WK	501	GTP	C2-N3	2.13	1.38	1.33
45	LK	501	GTP	C2-N3	2.13	1.38	1.33
45	JK	501	GTP	C2-N3	2.13	1.38	1.33
45	BK	501	GTP	PB-O3B	2.13	1.61	1.59
45	OI	501	GTP	C2-N3	2.13	1.38	1.33
45	JG	501	GTP	PB-O3A	2.12	1.61	1.59
45	OE	501	GTP	C2-N3	2.12	1.38	1.33
45	AK	501	GTP	C2-N3	2.12	1.38	1.33
45	LM	501	GTP	C2-N3	2.12	1.38	1.33
45	BK	501	GTP	C2-N3	2.12	1.38	1.33
45	HM	501	GTP	C2-N3	2.12	1.38	1.33
43	VH	501	GDP	C6-N1	-2.11	1.34	1.37
45	RK	501	GTP	C2-N3	2.11	1.38	1.33
45	UK	501	GTP	C2-N3	2.11	1.38	1.33
45	GK	501	GTP	C2-N3	2.11	1.38	1.33
45	AI	501	GTP	C2-N3	2.11	1.38	1.33
45	AE	501	GTP	C2-N3	2.11	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
45	NE	501	GTP	C2-N3	2.11	1.38	1.33
45	WM	501	GTP	C2-N3	2.11	1.38	1.33
45	OG	501	GTP	C2-N3	2.11	1.38	1.33
43	JH	501	GDP	C6-N1	-2.11	1.34	1.37
45	IE	501	GTP	C2-N3	2.11	1.38	1.33
45	HI	501	GTP	PB-O3A	2.11	1.61	1.59
45	FM	501	GTP	C2-N3	2.10	1.38	1.33
45	GC	501	GTP	C5-C4	-2.10	1.37	1.43
43	SJ	501	GDP	C6-N1	-2.10	1.34	1.37
45	DK	501	GTP	C2-N3	2.10	1.38	1.33
45	RE	501	GTP	C2-N3	2.10	1.38	1.33
45	LK	501	GTP	PB-O3A	2.10	1.61	1.59
45	ME	501	GTP	C2-N3	2.09	1.38	1.33
45	KE	501	GTP	C2-N3	2.09	1.38	1.33
45	KI	501	GTP	C2-N3	2.09	1.38	1.33
45	PI	501	GTP	C2-N3	2.09	1.38	1.33
45	BG	501	GTP	C2-N3	2.09	1.38	1.33
45	UK	501	GTP	PB-O3A	2.08	1.61	1.59
43	RJ	501	GDP	C6-N1	-2.08	1.34	1.37
45	GE	501	GTP	C2-N3	2.08	1.38	1.33
43	BB	501	GDP	C6-N1	-2.08	1.34	1.37
43	OJ	501	GDP	C6-N1	-2.08	1.34	1.37
45	KG	501	GTP	PB-O3A	2.07	1.61	1.59
45	PC	501	GTP	PB-O3B	2.07	1.61	1.59
45	BE	501	GTP	C2-N3	2.07	1.38	1.33
45	LF	502	GTP	C2-N3	2.07	1.38	1.33
45	UG	501	GTP	C2-N3	2.07	1.38	1.33
45	VK	501	GTP	C2-N3	2.07	1.38	1.33
45	LI	501	GTP	C2-N3	2.07	1.38	1.33
43	EH	501	GDP	C6-N1	-2.07	1.34	1.37
45	OC	501	GTP	C2-N3	2.07	1.38	1.33
45	EC	501	GTP	C2-N3	2.07	1.38	1.33
45	MM	501	GTP	C2-N3	2.07	1.38	1.33
45	NC	501	GTP	C2-N3	2.06	1.38	1.33
43	AB	501	GDP	C6-N1	-2.06	1.34	1.37
45	CK	501	GTP	C2-N3	2.06	1.38	1.33
43	UJ	501	GDP	C6-N1	-2.06	1.34	1.37
45	II	501	GTP	C2-N3	2.06	1.38	1.33
45	JE	501	GTP	C2-N3	2.05	1.38	1.33
45	VI	501	GTP	C2-N3	2.05	1.38	1.33
45	FC	501	GTP	PB-O3A	2.05	1.61	1.59
45	QK	501	GTP	PB-O3B	2.05	1.61	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
45	HE	501	GTP	C2-N3	2.05	1.38	1.33
45	PE	501	GTP	C2-N3	2.05	1.38	1.33
45	RG	501	GTP	C2-N3	2.05	1.38	1.33
45	NK	501	GTP	C2-N3	2.04	1.38	1.33
45	AF	502	GTP	C2-N3	2.04	1.38	1.33
45	VC	501	GTP	C2-N3	2.04	1.38	1.33
45	VE	501	GTP	C2-N3	2.04	1.38	1.33
45	FI	501	GTP	C2-N3	2.04	1.38	1.33
45	GM	501	GTP	C2-N3	2.04	1.38	1.33
45	TM	501	GTP	C2-N3	2.04	1.38	1.33
45	QE	501	GTP	C2-N3	2.04	1.38	1.33
45	JM	501	GTP	C2-N3	2.04	1.38	1.33
45	CC	501	GTP	C2-N3	2.03	1.38	1.33
45	LK	501	GTP	PA-O3A	2.03	1.61	1.59
45	QK	501	GTP	C2-N3	2.03	1.38	1.33
45	MG	501	GTP	C2-N3	2.02	1.38	1.33
45	QC	501	GTP	C2-N3	2.02	1.38	1.33
45	MC	501	GTP	C2-N3	2.02	1.38	1.33
45	KM	501	GTP	C2-N3	2.01	1.38	1.33
45	FE	501	GTP	C2-N3	2.01	1.38	1.33
45	DM	501	GTP	PB-O3A	2.01	1.61	1.59
45	DI	501	GTP	C2-N3	2.01	1.38	1.33
45	IG	501	GTP	C2-N3	2.00	1.38	1.33

All (967) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	EH	501	GDP	O6-C6-N1	7.46	129.48	120.62
45	QE	501	GTP	O4'-C1'-N9	6.84	117.81	108.75
43	EH	501	GDP	O6-C6-C5	-6.51	111.42	124.32
43	HH	501	GDP	O4'-C1'-N9	6.49	117.35	108.75
45	RI	501	GTP	C4'-O4'-C1'	5.48	114.94	109.92
43	UJ	501	GDP	N2-C2-N1	5.28	127.91	116.76
43	FF	501	GDP	N2-C2-N3	5.23	129.87	119.67
45	WI	501	GTP	O2A-PA-O3A	-5.15	93.34	107.27
45	UI	501	GTP	O4'-C1'-N9	4.66	114.93	108.75
45	GC	501	GTP	C2-N1-C6	-4.65	116.61	125.11
45	IK	501	GTP	C2-N1-C6	-4.53	116.82	125.11
45	CI	501	GTP	C2-N1-C6	-4.51	116.86	125.11
43	HH	501	GDP	C8-N7-C5	4.41	110.06	102.55
45	RI	501	GTP	C8-N7-C5	4.22	109.73	102.55
45	EG	501	GTP	C8-N7-C5	4.11	109.55	102.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
45	GC	501	GTP	O6-C6-C5	-4.06	116.27	124.32
45	GC	501	GTP	C5-C6-N1	4.03	121.77	114.07
45	LF	502	GTP	C8-N7-C5	3.99	109.34	102.55
45	UI	501	GTP	C8-N7-C5	3.97	109.31	102.55
45	CI	501	GTP	C5-C6-N1	3.96	121.63	114.07
45	TE	501	GTP	C8-N7-C5	3.94	109.26	102.55
45	IK	501	GTP	C5-C6-N1	3.92	121.56	114.07
45	NC	501	GTP	C8-N7-C5	3.90	109.19	102.55
45	QK	501	GTP	C8-N7-C5	3.89	109.18	102.55
43	RJ	501	GDP	O4'-C1'-N9	3.80	113.79	108.75
45	UM	501	GTP	C8-N7-C5	3.80	109.02	102.55
45	KM	501	GTP	C8-N7-C5	3.78	108.99	102.55
45	MG	501	GTP	C8-N7-C5	3.77	108.97	102.55
43	KG	503	GDP	C8-N7-C5	3.77	108.96	102.55
45	NI	501	GTP	C8-N7-C5	3.75	108.93	102.55
45	BK	501	GTP	O2G-PG-O3B	3.74	117.19	104.64
45	DE	501	GTP	C8-N7-C5	3.73	108.91	102.55
45	UC	501	GTP	C8-N7-C5	3.73	108.89	102.55
43	TD	501	GDP	O2B-PB-O3A	3.73	117.13	104.64
45	QG	501	GTP	C8-N7-C5	3.72	108.88	102.55
45	JC	501	GTP	C8-N7-C5	3.71	108.87	102.55
45	GE	501	GTP	C8-N7-C5	3.70	108.86	102.55
45	GI	501	GTP	C4'-O4'-C1'	3.70	113.31	109.92
45	JK	501	GTP	C8-N7-C5	3.70	108.84	102.55
45	AK	501	GTP	C8-N7-C5	3.70	108.84	102.55
45	OE	501	GTP	C8-N7-C5	3.70	108.84	102.55
45	SG	501	GTP	C8-N7-C5	3.70	108.84	102.55
45	VC	501	GTP	C8-N7-C5	3.69	108.83	102.55
45	BE	501	GTP	C8-N7-C5	3.68	108.81	102.55
45	LK	501	GTP	C8-N7-C5	3.68	108.81	102.55
45	IG	501	GTP	C8-N7-C5	3.67	108.79	102.55
45	DI	501	GTP	C8-N7-C5	3.66	108.78	102.55
45	GC	501	GTP	C8-N7-C5	3.66	108.77	102.55
45	BK	501	GTP	C8-N7-C5	3.65	108.77	102.55
45	AI	501	GTP	C8-N7-C5	3.65	108.76	102.55
45	AC	501	GTP	C8-N7-C5	3.65	108.76	102.55
45	EK	501	GTP	C8-N7-C5	3.65	108.76	102.55
45	WI	501	GTP	C8-N7-C5	3.65	108.75	102.55
45	MC	501	GTP	C8-N7-C5	3.64	108.75	102.55
45	JI	501	GTP	C8-N7-C5	3.64	108.74	102.55
45	SI	501	GTP	C8-N7-C5	3.64	108.74	102.55
45	GK	501	GTP	C8-N7-C5	3.63	108.74	102.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
45	TG	501	GTP	C8-N7-C5	3.63	108.74	102.55
45	TI	501	GTP	C8-N7-C5	3.63	108.73	102.55
45	BI	501	GTP	C8-N7-C5	3.63	108.73	102.55
45	LC	501	GTP	C8-N7-C5	3.62	108.72	102.55
45	GM	501	GTP	C8-N7-C5	3.62	108.72	102.55
45	VK	501	GTP	C8-N7-C5	3.62	108.71	102.55
45	TM	501	GTP	C8-N7-C5	3.62	108.71	102.55
45	WG	501	GTP	C8-N7-C5	3.62	108.71	102.55
45	ME	501	GTP	C8-N7-C5	3.61	108.70	102.55
45	OG	501	GTP	C8-N7-C5	3.61	108.70	102.55
45	VI	501	GTP	C8-N7-C5	3.61	108.70	102.55
45	JM	501	GTP	C8-N7-C5	3.61	108.70	102.55
45	LM	501	GTP	C8-N7-C5	3.61	108.70	102.55
45	EC	501	GTP	C8-N7-C5	3.61	108.70	102.55
45	LI	501	GTP	C8-N7-C5	3.61	108.70	102.55
45	KI	501	GTP	C8-N7-C5	3.61	108.69	102.55
45	OA	501	GTP	C8-N7-C5	3.61	108.69	102.55
45	OK	501	GTP	C8-N7-C5	3.61	108.69	102.55
45	RE	501	GTP	C8-N7-C5	3.61	108.69	102.55
45	CI	501	GTP	C8-N7-C5	3.60	108.69	102.55
45	II	501	GTP	C8-N7-C5	3.60	108.68	102.55
45	TC	501	GTP	C8-N7-C5	3.60	108.68	102.55
45	WM	501	GTP	C8-N7-C5	3.60	108.68	102.55
45	AE	501	GTP	C8-N7-C5	3.60	108.68	102.55
45	QI	501	GTP	C8-N7-C5	3.60	108.68	102.55
45	RG	501	GTP	C8-N7-C5	3.60	108.67	102.55
45	DK	501	GTP	C8-N7-C5	3.59	108.66	102.55
45	IM	501	GTP	C8-N7-C5	3.59	108.66	102.55
45	HM	501	GTP	C8-N7-C5	3.59	108.66	102.55
45	MI	501	GTP	C8-N7-C5	3.59	108.66	102.55
45	UE	501	GTP	C8-N7-C5	3.59	108.66	102.55
45	PI	501	GTP	C8-N7-C5	3.59	108.66	102.55
45	PA	501	GTP	C8-N7-C5	3.59	108.65	102.55
45	SC	501	GTP	C8-N7-C5	3.58	108.65	102.55
45	VE	501	GTP	C8-N7-C5	3.58	108.65	102.55
45	UG	501	GTP	C8-N7-C5	3.58	108.65	102.55
45	DC	501	GTP	C8-N7-C5	3.58	108.64	102.55
45	OI	501	GTP	C8-N7-C5	3.58	108.64	102.55
45	JG	501	GTP	C8-N7-C5	3.58	108.64	102.55
45	UM	501	GTP	C4'-O4'-C1'	3.58	113.20	109.92
45	SK	501	GTP	C8-N7-C5	3.58	108.64	102.55
45	IK	501	GTP	C8-N7-C5	3.57	108.63	102.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
45	KC	501	GTP	C8-N7-C5	3.57	108.63	102.55
45	RK	501	GTP	C8-N7-C5	3.57	108.63	102.55
45	SM	501	GTP	C8-N7-C5	3.57	108.63	102.55
45	AF	502	GTP	C8-N7-C5	3.57	108.63	102.55
43	ML	501	GDP	O4'-C1'-N9	3.57	113.48	108.75
45	HI	501	GTP	C8-N7-C5	3.57	108.63	102.55
45	BG	501	GTP	C8-N7-C5	3.57	108.62	102.55
45	RC	501	GTP	C8-N7-C5	3.57	108.62	102.55
45	NG	501	GTP	C8-N7-C5	3.56	108.61	102.55
45	FI	501	GTP	C8-N7-C5	3.56	108.61	102.55
45	HE	501	GTP	C8-N7-C5	3.56	108.61	102.55
45	SE	501	GTP	C8-N7-C5	3.55	108.60	102.55
45	BC	501	GTP	C8-N7-C5	3.55	108.60	102.55
45	WC	501	GTP	C8-N7-C5	3.55	108.60	102.55
45	CK	501	GTP	C8-N7-C5	3.55	108.58	102.55
45	HC	501	GTP	C8-N7-C5	3.54	108.58	102.55
45	IE	501	GTP	C8-N7-C5	3.54	108.58	102.55
45	CM	501	GTP	C8-N7-C5	3.54	108.58	102.55
45	WE	501	GTP	C8-N7-C5	3.54	108.58	102.55
45	NE	501	GTP	C8-N7-C5	3.54	108.57	102.55
45	DM	501	GTP	C8-N7-C5	3.53	108.57	102.55
45	FE	501	GTP	C8-N7-C5	3.53	108.56	102.55
45	LE	501	GTP	C8-N7-C5	3.53	108.56	102.55
45	CC	501	GTP	C8-N7-C5	3.53	108.55	102.55
45	NA	501	GTP	C8-N7-C5	3.53	108.55	102.55
45	MK	501	GTP	C8-N7-C5	3.52	108.55	102.55
45	UK	501	GTP	C8-N7-C5	3.52	108.54	102.55
45	OC	501	GTP	C8-N7-C5	3.52	108.53	102.55
45	EE	501	GTP	C8-N7-C5	3.51	108.53	102.55
45	FC	501	GTP	C8-N7-C5	3.51	108.53	102.55
45	KG	501	GTP	C8-N7-C5	3.51	108.52	102.55
45	PK	501	GTP	C8-N7-C5	3.51	108.52	102.55
45	KK	501	GTP	C8-N7-C5	3.51	108.52	102.55
45	CG	501	GTP	C8-N7-C5	3.50	108.51	102.55
45	FK	501	GTP	C8-N7-C5	3.50	108.51	102.55
45	PC	501	GTP	C8-N7-C5	3.49	108.50	102.55
45	IC	501	GTP	C8-N7-C5	3.49	108.49	102.55
45	DG	501	GTP	C8-N7-C5	3.48	108.47	102.55
45	FM	501	GTP	C8-N7-C5	3.48	108.47	102.55
45	KE	501	GTP	C8-N7-C5	3.47	108.46	102.55
45	MM	501	GTP	C8-N7-C5	3.47	108.45	102.55
45	VG	501	GTP	C8-N7-C5	3.47	108.45	102.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
45	PG	501	GTP	C8-N7-C5	3.46	108.44	102.55
45	NK	501	GTP	C8-N7-C5	3.45	108.42	102.55
45	QE	501	GTP	C2-N1-C6	-3.45	118.80	125.11
45	EM	501	GTP	C8-N7-C5	3.44	108.41	102.55
45	FF	502	GTP	C8-N7-C5	3.44	108.41	102.55
45	WK	501	GTP	C8-N7-C5	3.44	108.40	102.55
43	JH	501	GDP	O4'-C1'-N9	3.44	113.31	108.75
45	PE	501	GTP	C8-N7-C5	3.43	108.39	102.55
45	GF	502	GTP	C5-C6-N1	3.43	120.62	114.07
45	QE	501	GTP	C4'-O4'-C1'	-3.42	106.79	109.92
45	TK	501	GTP	C8-N7-C5	3.42	108.37	102.55
45	HK	501	GTP	C8-N7-C5	3.42	108.37	102.55
45	QC	501	GTP	C8-N7-C5	3.42	108.37	102.55
45	UK	501	GTP	C2-N1-C6	-3.40	118.88	125.11
45	UK	501	GTP	C5-C6-N1	3.40	120.56	114.07
45	JE	501	GTP	O4'-C1'-N9	3.40	113.25	108.75
45	QK	501	GTP	C2-N1-C6	-3.40	118.89	125.11
43	QJ	501	GDP	O4'-C1'-N9	3.38	113.23	108.75
45	VM	501	GTP	C8-N7-C5	3.37	108.28	102.55
45	QE	501	GTP	C5-C6-N1	3.36	120.48	114.07
45	RI	501	GTP	C2-N1-C6	-3.36	118.97	125.11
45	IK	501	GTP	C4'-O4'-C1'	3.35	112.99	109.92
45	SG	501	GTP	C5-C6-N1	3.34	120.45	114.07
45	MK	501	GTP	C5-C6-N1	3.32	120.40	114.07
45	SG	501	GTP	C2-N1-C6	-3.31	119.05	125.11
45	TE	501	GTP	C5-C6-N1	3.30	120.38	114.07
45	DE	501	GTP	C2-N1-C6	-3.30	119.07	125.11
43	DH	501	GDP	C8-N7-C5	3.30	108.16	102.55
45	CE	501	GTP	C5-C6-N1	3.30	120.36	114.07
45	GI	501	GTP	C8-N7-C5	3.29	108.15	102.55
43	FF	501	GDP	N2-C2-N1	-3.28	109.84	116.76
45	CI	501	GTP	O6-C6-C5	-3.26	117.86	124.32
45	EG	501	GTP	C2-N1-C6	-3.25	119.17	125.11
45	OA	501	GTP	C2-N1-C6	-3.22	119.21	125.11
45	WK	501	GTP	C2-N1-C6	-3.21	119.23	125.11
43	QH	501	GDP	C4'-O4'-C1'	3.21	112.86	109.92
45	TC	501	GTP	C5-C6-N1	3.20	120.18	114.07
45	PE	501	GTP	C4'-O4'-C1'	3.20	112.85	109.92
45	TM	501	GTP	C2-N1-C6	-3.19	119.27	125.11
43	MJ	501	GDP	C8-N7-C5	3.19	107.97	102.55
45	HG	501	GTP	C8-N7-C5	3.17	107.95	102.55
45	DE	501	GTP	C5-C6-N1	3.17	120.11	114.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
45	EC	501	GTP	C5-C6-N1	3.16	120.10	114.07
45	CM	501	GTP	C2-N1-C6	-3.16	119.33	125.11
45	AE	501	GTP	C2-N1-C6	-3.15	119.34	125.11
45	NG	501	GTP	C2-N1-C6	-3.15	119.35	125.11
45	GK	501	GTP	C5-C6-N1	3.15	120.07	114.07
45	JE	501	GTP	C5-C6-N1	3.15	120.07	114.07
43	VH	501	GDP	C8-N7-C5	3.14	107.90	102.55
45	NC	501	GTP	C5-C6-N1	3.14	120.06	114.07
45	NA	501	GTP	C2-N1-C6	-3.14	119.37	125.11
45	HE	501	GTP	C5-C6-N1	3.14	120.06	114.07
45	CC	501	GTP	C5-C6-N1	3.13	120.04	114.07
45	WI	501	GTP	C5-C6-N1	3.13	120.04	114.07
45	CG	501	GTP	C2-N1-C6	-3.13	119.39	125.11
45	ME	501	GTP	C5-C6-N1	3.13	120.03	114.07
45	LF	502	GTP	C5-C6-N1	3.12	120.02	114.07
45	AK	501	GTP	C5-C6-N1	3.12	120.02	114.07
45	WG	501	GTP	C2-N1-C6	-3.11	119.41	125.11
43	JH	501	GDP	C8-N7-C5	3.11	107.84	102.55
43	CB	501	GDP	C8-N7-C5	3.11	107.84	102.55
45	TK	501	GTP	C5-C6-N1	3.11	120.00	114.07
45	NA	501	GTP	C5-C6-N1	3.10	119.99	114.07
45	WI	501	GTP	C2-N1-C6	-3.10	119.43	125.11
45	VC	501	GTP	C2-N1-C6	-3.10	119.44	125.11
45	FF	502	GTP	C2-N1-C6	-3.10	119.44	125.11
45	GC	501	GTP	O4'-C1'-N9	3.10	112.85	108.75
43	SL	501	GDP	O6-C6-C5	-3.10	118.18	124.32
45	DG	501	GTP	C4'-O4'-C1'	3.09	112.76	109.92
45	DC	501	GTP	C2-N1-C6	-3.09	119.45	125.11
45	QG	501	GTP	C5-C6-N1	3.09	119.97	114.07
45	AE	501	GTP	C5-C6-N1	3.09	119.96	114.07
45	NK	501	GTP	C5-C6-N1	3.09	119.96	114.07
45	RC	501	GTP	C2-N1-C6	-3.08	119.46	125.11
45	SM	501	GTP	C2-N1-C6	-3.08	119.47	125.11
45	FC	501	GTP	C5-C6-N1	3.08	119.94	114.07
45	GI	501	GTP	C2-N1-C6	-3.08	119.48	125.11
45	WC	501	GTP	C5-C6-N1	3.08	119.94	114.07
45	MK	501	GTP	C2-N1-C6	-3.08	119.48	125.11
45	DG	501	GTP	C5-C6-N1	3.07	119.93	114.07
45	VG	501	GTP	C2-N1-C6	-3.07	119.49	125.11
43	OJ	501	GDP	O4'-C1'-N9	3.07	112.81	108.75
45	OA	501	GTP	C5-C6-N1	3.07	119.92	114.07
45	UE	501	GTP	C5-C6-N1	3.07	119.92	114.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
45	SE	501	GTP	C5-C6-N1	3.07	119.92	114.07
45	TM	501	GTP	C5-C6-N1	3.06	119.92	114.07
45	AI	501	GTP	C5-C6-N1	3.06	119.91	114.07
45	CK	501	GTP	C5-C6-N1	3.06	119.91	114.07
45	PK	501	GTP	C2-N1-C6	-3.06	119.51	125.11
45	BG	501	GTP	C2-N1-C6	-3.06	119.51	125.11
45	NK	501	GTP	C2-N1-C6	-3.06	119.51	125.11
45	DK	501	GTP	C5-C6-N1	3.05	119.90	114.07
45	HC	501	GTP	C5-C6-N1	3.05	119.90	114.07
45	OK	501	GTP	C5-C6-N1	3.05	119.90	114.07
45	AK	501	GTP	C2-N1-C6	-3.05	119.53	125.11
45	UI	501	GTP	C4'-O4'-C1'	-3.05	107.13	109.92
45	VG	501	GTP	C5-C6-N1	3.05	119.89	114.07
45	CC	501	GTP	C2-N1-C6	-3.05	119.53	125.11
45	EK	501	GTP	C2-N1-C6	-3.05	119.53	125.11
45	GK	501	GTP	C2-N1-C6	-3.05	119.53	125.11
45	TC	501	GTP	C2-N1-C6	-3.05	119.53	125.11
45	WG	501	GTP	C5-C6-N1	3.05	119.89	114.07
45	DK	501	GTP	C2-N1-C6	-3.04	119.55	125.11
45	KE	501	GTP	C2-N1-C6	-3.04	119.55	125.11
45	PI	501	GTP	C5-C6-N1	3.04	119.87	114.07
45	UM	501	GTP	C2-N1-C6	-3.04	119.55	125.11
45	OC	501	GTP	C4'-O4'-C1'	3.04	112.71	109.92
45	EC	501	GTP	C2-N1-C6	-3.04	119.55	125.11
45	UC	501	GTP	C2-N1-C6	-3.04	119.55	125.11
45	LM	501	GTP	C5-C6-N1	3.03	119.86	114.07
45	OK	501	GTP	C2-N1-C6	-3.03	119.56	125.11
45	WE	501	GTP	C5-C6-N1	3.03	119.86	114.07
45	QG	501	GTP	C2-N1-C6	-3.03	119.56	125.11
45	AI	501	GTP	C2-N1-C6	-3.03	119.56	125.11
45	BI	501	GTP	C2-N1-C6	-3.03	119.56	125.11
45	SM	501	GTP	C5-C6-N1	3.03	119.85	114.07
45	JG	501	GTP	C5-C6-N1	3.03	119.85	114.07
45	LC	501	GTP	C5-C6-N1	3.03	119.84	114.07
45	JG	501	GTP	C2-N1-C6	-3.03	119.57	125.11
45	WC	501	GTP	C2-N1-C6	-3.03	119.57	125.11
45	VK	501	GTP	C5-C6-N1	3.02	119.84	114.07
43	IL	501	GDP	O3B-PB-O3A	3.02	114.77	104.64
45	WE	501	GTP	C2-N1-C6	-3.02	119.58	125.11
45	SG	501	GTP	C4'-O4'-C1'	3.02	112.69	109.92
45	GI	501	GTP	C5-C6-N1	3.02	119.83	114.07
45	HC	501	GTP	C2-N1-C6	-3.02	119.58	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
45	HE	501	GTP	C2-N1-C6	-3.02	119.58	125.11
45	IG	501	GTP	C2-N1-C6	-3.02	119.58	125.11
45	PA	501	GTP	C2-N1-C6	-3.02	119.59	125.11
45	UC	501	GTP	C5-C6-N1	3.02	119.83	114.07
45	HK	501	GTP	C5-C6-N1	3.02	119.82	114.07
45	SE	501	GTP	C2-N1-C6	-3.01	119.59	125.11
45	LC	501	GTP	C2-N1-C6	-3.01	119.60	125.11
45	IK	501	GTP	O6-C6-C5	-3.01	118.36	124.32
45	FF	502	GTP	C5-C6-N1	3.01	119.81	114.07
45	VC	501	GTP	C5-C6-N1	3.01	119.81	114.07
45	FE	501	GTP	C5-C6-N1	3.00	119.80	114.07
45	LF	502	GTP	C2-N1-C6	-3.00	119.61	125.11
45	PG	501	GTP	C5-C6-N1	3.00	119.80	114.07
45	EE	501	GTP	C5-C6-N1	3.00	119.80	114.07
45	BG	501	GTP	C5-C6-N1	3.00	119.80	114.07
45	SC	501	GTP	C2-N1-C6	-3.00	119.62	125.11
43	ML	501	GDP	C8-N7-C5	3.00	107.66	102.55
45	LE	501	GTP	C2-N1-C6	-3.00	119.62	125.11
45	JC	501	GTP	C5-C6-N1	3.00	119.79	114.07
45	NE	501	GTP	C2-N1-C6	-3.00	119.62	125.11
43	HH	501	GDP	O6-C6-N1	-2.99	117.07	120.62
45	HK	501	GTP	C2-N1-C6	-2.99	119.63	125.11
45	JK	501	GTP	C5-C6-N1	2.99	119.78	114.07
45	BI	501	GTP	C5-C6-N1	2.99	119.77	114.07
45	HI	501	GTP	C5-C6-N1	2.99	119.77	114.07
43	BH	501	GDP	C8-N7-C5	2.99	107.64	102.55
43	UJ	501	GDP	N2-C2-N3	-2.99	113.85	119.67
45	LM	501	GTP	C2-N1-C6	-2.99	119.64	125.11
43	UL	501	GDP	C8-N7-C5	2.99	107.63	102.55
45	LK	501	GTP	C5-C6-N1	2.99	119.77	114.07
45	VK	501	GTP	C2-N1-C6	-2.99	119.64	125.11
45	RC	501	GTP	C5-C6-N1	2.98	119.77	114.07
45	SE	501	GTP	C4'-O4'-C1'	2.98	112.66	109.92
45	DG	501	GTP	C2-N1-C6	-2.98	119.65	125.11
43	RJ	501	GDP	C8-N7-C5	2.98	107.63	102.55
43	UD	501	GDP	C8-N7-C5	2.98	107.63	102.55
45	CK	501	GTP	C2-N1-C6	-2.98	119.65	125.11
43	FL	501	GDP	C8-N7-C5	2.98	107.62	102.55
45	OG	501	GTP	C5-C6-N1	2.98	119.75	114.07
45	DM	501	GTP	C2-N1-C6	-2.98	119.66	125.11
43	PD	501	GDP	C8-N7-C5	2.98	107.62	102.55
45	OC	501	GTP	C5-C6-N1	2.98	119.75	114.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
45	EI	501	GTP	C8-N7-C5	2.98	107.62	102.55
45	QI	501	GTP	C2-N1-C6	-2.98	119.66	125.11
45	FK	501	GTP	C2-N1-C6	-2.97	119.67	125.11
45	AC	501	GTP	C5-C6-N1	2.97	119.75	114.07
45	PE	501	GTP	C2-N1-C6	-2.97	119.67	125.11
43	MH	501	GDP	C8-N7-C5	2.97	107.61	102.55
45	JK	501	GTP	C2-N1-C6	-2.97	119.67	125.11
45	TG	501	GTP	C5-C6-N1	2.97	119.74	114.07
45	LE	501	GTP	C5-C6-N1	2.97	119.74	114.07
45	FK	501	GTP	C5-C6-N1	2.97	119.74	114.07
45	GM	501	GTP	C5-C6-N1	2.97	119.74	114.07
45	VE	501	GTP	C5-C6-N1	2.97	119.74	114.07
45	RI	501	GTP	C5-C6-N1	2.97	119.73	114.07
45	RG	501	GTP	C4'-O4'-C1'	2.97	112.64	109.92
45	BK	501	GTP	C5-C6-N1	2.96	119.73	114.07
45	MG	501	GTP	C5-C6-N1	2.96	119.73	114.07
45	LI	501	GTP	C5-C6-N1	2.96	119.72	114.07
45	GM	501	GTP	C2-N1-C6	-2.96	119.69	125.11
45	NE	501	GTP	C5-C6-N1	2.96	119.72	114.07
43	BL	501	GDP	C8-N7-C5	2.96	107.59	102.55
45	VE	501	GTP	C2-N1-C6	-2.96	119.69	125.11
45	KM	501	GTP	C2-N1-C6	-2.96	119.69	125.11
43	UJ	501	GDP	N1-C2-N3	-2.96	117.90	123.32
43	JL	501	GDP	C8-N7-C5	2.96	107.59	102.55
45	KE	501	GTP	C5-C6-N1	2.96	119.71	114.07
43	RD	501	GDP	C8-N7-C5	2.95	107.58	102.55
45	AC	501	GTP	C2-N1-C6	-2.95	119.70	125.11
45	KI	501	GTP	C5-C6-N1	2.95	119.71	114.07
45	DM	501	GTP	C5-C6-N1	2.95	119.71	114.07
45	HI	501	GTP	C2-N1-C6	-2.95	119.70	125.11
45	DC	501	GTP	C5-C6-N1	2.95	119.70	114.07
45	KC	501	GTP	C2-N1-C6	-2.95	119.71	125.11
45	WK	501	GTP	C5-C6-N1	2.95	119.70	114.07
45	LI	501	GTP	C2-N1-C6	-2.95	119.71	125.11
45	JI	501	GTP	C5-C6-N1	2.95	119.70	114.07
43	EL	501	GDP	C8-N7-C5	2.95	107.57	102.55
45	TG	501	GTP	C2-N1-C6	-2.95	119.71	125.11
45	LK	501	GTP	C2-N1-C6	-2.95	119.72	125.11
45	PI	501	GTP	C2-N1-C6	-2.95	119.72	125.11
45	QI	501	GTP	C5-C6-N1	2.94	119.69	114.07
45	ME	501	GTP	C2-N1-C6	-2.94	119.72	125.11
45	BK	501	GTP	C2-N1-C6	-2.94	119.72	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
45	RK	501	GTP	C2-N1-C6	-2.94	119.72	125.11
45	EE	501	GTP	C2-N1-C6	-2.94	119.73	125.11
45	SC	501	GTP	C5-C6-N1	2.94	119.68	114.07
45	UG	501	GTP	C2-N1-C6	-2.94	119.73	125.11
45	SI	501	GTP	C5-C6-N1	2.94	119.68	114.07
43	CL	501	GDP	C8-N7-C5	2.94	107.55	102.55
45	IM	501	GTP	C5-C6-N1	2.93	119.67	114.07
45	HM	501	GTP	C2-N1-C6	-2.93	119.74	125.11
43	SL	501	GDP	C5-C6-N1	2.93	119.67	114.07
43	UH	501	GDP	C8-N7-C5	2.93	107.54	102.55
43	NJ	501	GDP	C8-N7-C5	2.93	107.54	102.55
45	PA	501	GTP	C5-C6-N1	2.93	119.66	114.07
43	BD	501	GDP	C8-N7-C5	2.93	107.54	102.55
45	IG	501	GTP	C5-C6-N1	2.93	119.66	114.07
45	MC	501	GTP	C2-N1-C6	-2.93	119.75	125.11
43	OJ	501	GDP	C8-N7-C5	2.93	107.54	102.55
45	SI	501	GTP	C2-N1-C6	-2.93	119.75	125.11
43	IN	501	GDP	C8-N7-C5	2.93	107.53	102.55
45	CM	501	GTP	C5-C6-N1	2.93	119.66	114.07
45	KG	501	GTP	C2-N1-C6	-2.93	119.75	125.11
45	KM	501	GTP	C5-C6-N1	2.93	119.66	114.07
43	DH	501	GDP	C4'-O4'-C1'	-2.93	107.25	109.92
45	BE	501	GTP	C2-N1-C6	-2.93	119.75	125.11
45	EI	501	GTP	O6-C6-C5	-2.92	118.52	124.32
45	BE	501	GTP	C5-C6-N1	2.92	119.65	114.07
45	FE	501	GTP	C2-N1-C6	-2.92	119.76	125.11
43	BF	501	GDP	C8-N7-C5	2.92	107.53	102.55
43	DB	501	GDP	C8-N7-C5	2.92	107.52	102.55
43	LL	501	GDP	C8-N7-C5	2.92	107.52	102.55
45	KC	501	GTP	C5-C6-N1	2.92	119.64	114.07
45	NI	501	GTP	C5-C6-N1	2.92	119.64	114.07
43	CF	501	GDP	C8-N7-C5	2.92	107.52	102.55
45	JM	501	GTP	C5-C6-N1	2.92	119.64	114.07
45	IE	501	GTP	C2-N1-C6	-2.92	119.77	125.11
43	JJ	501	GDP	C8-N7-C5	2.92	107.52	102.55
45	II	501	GTP	C5-C6-N1	2.92	119.64	114.07
43	PB	501	GDP	C8-N7-C5	2.92	107.52	102.55
43	GH	501	GDP	C8-N7-C5	2.92	107.52	102.55
45	GE	501	GTP	C5-C6-N1	2.92	119.64	114.07
45	SK	501	GTP	C5-C6-N1	2.91	119.63	114.07
45	DI	501	GTP	C2-N1-C6	-2.91	119.78	125.11
43	GL	501	GDP	C8-N7-C5	2.91	107.51	102.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	VJ	501	GDP	C8-N7-C5	2.91	107.50	102.55
43	NB	501	GDP	C8-N7-C5	2.91	107.50	102.55
45	CG	501	GTP	C5-C6-N1	2.91	119.62	114.07
45	KI	501	GTP	C2-N1-C6	-2.91	119.79	125.11
45	OG	501	GTP	C2-N1-C6	-2.91	119.79	125.11
45	PC	501	GTP	C2-N1-C6	-2.91	119.79	125.11
45	AF	502	GTP	C2-N1-C6	-2.91	119.79	125.11
45	OC	501	GTP	C2-N1-C6	-2.91	119.79	125.11
45	MC	501	GTP	C5-C6-N1	2.91	119.61	114.07
45	KG	501	GTP	C5-C6-N1	2.90	119.61	114.07
43	HB	501	GDP	C8-N7-C5	2.90	107.49	102.55
43	OD	501	GDP	C8-N7-C5	2.90	107.49	102.55
45	AF	502	GTP	C5-C6-N1	2.90	119.61	114.07
45	TE	501	GTP	C2-N1-C6	-2.90	119.80	125.11
45	RG	501	GTP	C5-C6-N1	2.90	119.61	114.07
43	GD	501	GDP	C8-N7-C5	2.90	107.49	102.55
43	UF	501	GDP	C8-N7-C5	2.90	107.49	102.55
43	AF	501	GDP	C8-N7-C5	2.90	107.49	102.55
43	GF	501	GDP	C8-N7-C5	2.90	107.49	102.55
43	AD	501	GDP	C8-N7-C5	2.90	107.49	102.55
43	CJ	501	GDP	C8-N7-C5	2.90	107.49	102.55
45	IE	501	GTP	C5-C6-N1	2.90	119.60	114.07
45	OE	501	GTP	C5-C6-N1	2.90	119.60	114.07
45	UG	501	GTP	C5-C6-N1	2.90	119.60	114.07
45	NG	501	GTP	C5-C6-N1	2.90	119.60	114.07
45	HM	501	GTP	C5-C6-N1	2.90	119.60	114.07
43	JD	501	GDP	C8-N7-C5	2.90	107.48	102.55
45	FM	501	GTP	C2-N1-C6	-2.90	119.81	125.11
45	WI	501	GTP	O2B-PB-O3B	2.90	115.10	107.27
43	PH	501	GDP	C8-N7-C5	2.90	107.48	102.55
43	WD	501	GDP	C8-N7-C5	2.89	107.48	102.55
45	GF	502	GTP	C2-N1-C6	-2.89	119.81	125.11
45	JM	501	GTP	C2-N1-C6	-2.89	119.81	125.11
43	NH	501	GDP	C8-N7-C5	2.89	107.47	102.55
45	OI	501	GTP	C5-C6-N1	2.89	119.59	114.07
45	MM	501	GTP	C2-N1-C6	-2.89	119.82	125.11
45	OI	501	GTP	C2-N1-C6	-2.89	119.82	125.11
43	WH	501	GDP	C8-N7-C5	2.89	107.47	102.55
43	VD	501	GDP	C8-N7-C5	2.89	107.46	102.55
45	KK	501	GTP	C5-C6-N1	2.89	119.58	114.07
45	LE	501	GTP	C4'-O4'-C1'	2.88	112.57	109.92
43	DD	501	GDP	C8-N7-C5	2.88	107.46	102.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	VF	501	GDP	C8-N7-C5	2.88	107.46	102.55
43	KL	501	GDP	C8-N7-C5	2.88	107.46	102.55
45	OE	501	GTP	C2-N1-C6	-2.88	119.84	125.11
43	PF	501	GDP	C8-N7-C5	2.88	107.45	102.55
43	SH	501	GDP	C8-N7-C5	2.88	107.45	102.55
45	VI	501	GTP	C2-N1-C6	-2.88	119.84	125.11
45	MG	501	GTP	C2-N1-C6	-2.88	119.84	125.11
45	MI	501	GTP	C2-N1-C6	-2.88	119.84	125.11
43	JF	501	GDP	C8-N7-C5	2.88	107.45	102.55
43	OH	501	GDP	C8-N7-C5	2.88	107.45	102.55
43	OL	501	GDP	C4'-O4'-C1'	2.88	112.56	109.92
45	JI	501	GTP	C2-N1-C6	-2.88	119.84	125.11
43	IJ	501	GDP	C8-N7-C5	2.88	107.44	102.55
43	IF	501	GDP	C8-N7-C5	2.87	107.44	102.55
43	WF	501	GDP	C8-N7-C5	2.87	107.44	102.55
45	GE	501	GTP	C2-N1-C6	-2.87	119.85	125.11
43	CH	501	GDP	C8-N7-C5	2.87	107.44	102.55
43	GJ	501	GDP	C8-N7-C5	2.87	107.44	102.55
43	NL	501	GDP	C8-N7-C5	2.87	107.44	102.55
43	DL	501	GDP	C8-N7-C5	2.87	107.43	102.55
45	TI	501	GTP	C2-N1-C6	-2.87	119.86	125.11
45	IM	501	GTP	C2-N1-C6	-2.87	119.86	125.11
45	MM	501	GTP	C5-C6-N1	2.87	119.54	114.07
43	RH	501	GDP	C8-N7-C5	2.87	107.43	102.55
45	FM	501	GTP	C5-C6-N1	2.87	119.54	114.07
45	RE	501	GTP	C2-N1-C6	-2.86	119.87	125.11
45	PK	501	GTP	C5-C6-N1	2.86	119.53	114.07
43	BJ	501	GDP	C8-N7-C5	2.86	107.42	102.55
45	TK	501	GTP	C2-N1-C6	-2.86	119.87	125.11
45	NI	501	GTP	C2-N1-C6	-2.86	119.87	125.11
43	IL	501	GDP	C8-N7-C5	2.86	107.42	102.55
43	VL	501	GDP	C8-N7-C5	2.86	107.42	102.55
43	LN	501	GDP	C8-N7-C5	2.86	107.42	102.55
45	JC	501	GTP	C2-N1-C6	-2.86	119.88	125.11
43	AH	501	GDP	C8-N7-C5	2.86	107.41	102.55
45	VI	501	GTP	C5-C6-N1	2.85	119.52	114.07
43	LF	501	GDP	C8-N7-C5	2.85	107.41	102.55
45	RE	501	GTP	C5-C6-N1	2.85	119.51	114.07
43	KN	501	GDP	C8-N7-C5	2.85	107.41	102.55
43	PJ	501	GDP	C8-N7-C5	2.85	107.40	102.55
43	KJ	501	GDP	C8-N7-C5	2.85	107.40	102.55
43	LD	501	GDP	C8-N7-C5	2.85	107.40	102.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	OF	501	GDP	C8-N7-C5	2.85	107.40	102.55
45	FC	501	GTP	C2-N1-C6	-2.85	119.89	125.11
45	WM	501	GTP	C5-C6-N1	2.85	119.50	114.07
45	TI	501	GTP	C5-C6-N1	2.84	119.50	114.07
45	JE	501	GTP	C8-N7-C5	2.84	107.39	102.55
45	WM	501	GTP	C2-N1-C6	-2.84	119.91	125.11
45	SK	501	GTP	C2-N1-C6	-2.84	119.91	125.11
43	FJ	501	GDP	C8-N7-C5	2.84	107.39	102.55
45	EM	501	GTP	C2-N1-C6	-2.84	119.91	125.11
43	HJ	501	GDP	C8-N7-C5	2.84	107.38	102.55
43	FD	501	GDP	C8-N7-C5	2.84	107.38	102.55
43	WJ	501	GDP	C8-N7-C5	2.84	107.38	102.55
43	HL	501	GDP	C8-N7-C5	2.83	107.38	102.55
45	EK	501	GTP	C5-C6-N1	2.83	119.48	114.07
43	MF	501	GDP	C8-N7-C5	2.83	107.37	102.55
43	MN	501	GDP	C8-N7-C5	2.83	107.37	102.55
43	PB	501	GDP	O4'-C1'-N9	2.83	112.50	108.75
45	FI	501	GTP	C2-N1-C6	-2.83	119.93	125.11
43	QD	501	GDP	C8-N7-C5	2.83	107.37	102.55
43	DF	501	GDP	C8-N7-C5	2.83	107.37	102.55
45	NC	501	GTP	C2-N1-C6	-2.83	119.93	125.11
43	PL	501	GDP	C8-N7-C5	2.83	107.36	102.55
43	OB	501	GDP	C8-N7-C5	2.83	107.36	102.55
45	JE	501	GTP	C2-N1-C6	-2.82	119.94	125.11
43	KF	501	GDP	C8-N7-C5	2.82	107.35	102.55
43	HD	501	GDP	C8-N7-C5	2.82	107.35	102.55
43	MD	501	GDP	C8-N7-C5	2.82	107.35	102.55
45	TE	501	GTP	O4'-C1'-N9	2.82	112.48	108.75
43	OL	501	GDP	C8-N7-C5	2.82	107.34	102.55
43	DH	501	GDP	O4'-C1'-N9	2.82	112.48	108.75
45	RK	501	GTP	C5-C6-N1	2.81	119.44	114.07
43	KD	501	GDP	C8-N7-C5	2.81	107.34	102.55
43	WL	501	GDP	C8-N7-C5	2.81	107.34	102.55
43	LJ	501	GDP	C8-N7-C5	2.81	107.33	102.55
45	EM	501	GTP	C5-C6-N1	2.81	119.43	114.07
43	HF	501	GDP	C8-N7-C5	2.81	107.33	102.55
43	DJ	501	GDP	C8-N7-C5	2.81	107.33	102.55
43	NF	501	GDP	C8-N7-C5	2.81	107.33	102.55
43	WN	501	GDP	C8-N7-C5	2.81	107.33	102.55
45	FI	501	GTP	C5-C6-N1	2.81	119.42	114.07
43	FF	501	GDP	C8-N7-C5	2.81	107.33	102.55
45	MI	501	GTP	C5-C6-N1	2.80	119.42	114.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	EF	501	GDP	C8-N7-C5	2.80	107.32	102.55
45	VM	501	GTP	C5-C6-N1	2.80	119.42	114.07
43	SD	501	GDP	C8-N7-C5	2.80	107.32	102.55
43	IL	501	GDP	O4'-C1'-N9	2.80	112.46	108.75
43	LH	501	GDP	C8-N7-C5	2.80	107.32	102.55
43	QJ	501	GDP	C8-N7-C5	2.80	107.32	102.55
43	CD	501	GDP	C8-N7-C5	2.80	107.32	102.55
43	EJ	501	GDP	C8-N7-C5	2.80	107.31	102.55
43	FH	501	GDP	C8-N7-C5	2.80	107.31	102.55
43	AJ	501	GDP	C8-N7-C5	2.80	107.31	102.55
43	ID	501	GDP	C8-N7-C5	2.80	107.31	102.55
43	AL	501	GDP	C8-N7-C5	2.80	107.31	102.55
45	EG	501	GTP	C5-C6-N1	2.79	119.40	114.07
43	SJ	501	GDP	C8-N7-C5	2.79	107.31	102.55
45	II	501	GTP	C2-N1-C6	-2.79	120.00	125.11
45	GC	501	GTP	C4'-O4'-C1'	-2.79	107.37	109.92
45	RG	501	GTP	C2-N1-C6	-2.79	120.01	125.11
43	QB	501	GDP	C8-N7-C5	2.78	107.29	102.55
45	FC	501	GTP	C4'-O4'-C1'	2.78	112.47	109.92
43	TD	501	GDP	C8-N7-C5	2.78	107.28	102.55
43	QF	501	GDP	C8-N7-C5	2.78	107.28	102.55
45	DI	501	GTP	C5-C6-N1	2.78	119.37	114.07
45	PC	501	GTP	C5-C6-N1	2.78	119.37	114.07
43	ED	501	GDP	C8-N7-C5	2.77	107.27	102.55
43	QL	501	GDP	C8-N7-C5	2.77	107.27	102.55
43	BB	501	GDP	C8-N7-C5	2.77	107.27	102.55
45	FK	501	GTP	C4'-O4'-C1'	2.77	112.46	109.92
43	TJ	501	GDP	C8-N7-C5	2.77	107.26	102.55
45	TK	501	GTP	O6-C6-C5	-2.76	118.84	124.32
43	TF	501	GDP	C8-N7-C5	2.76	107.25	102.55
45	KK	501	GTP	C4'-O4'-C1'	2.76	112.45	109.92
45	VM	501	GTP	C4'-O4'-C1'	2.76	112.45	109.92
45	BC	501	GTP	C5-C6-N1	2.75	119.33	114.07
45	PG	501	GTP	C2-N1-C6	-2.75	120.07	125.11
45	GI	501	GTP	O6-C6-C5	-2.75	118.87	124.32
45	UM	501	GTP	C5-C6-N1	2.75	119.31	114.07
45	CE	501	GTP	C2-N1-C6	-2.75	120.08	125.11
45	UE	501	GTP	C2-N1-C6	-2.75	120.08	125.11
45	NA	501	GTP	O2A-PA-O3A	2.74	114.69	107.27
43	ML	501	GDP	C4'-O4'-C1'	-2.73	107.42	109.92
45	KK	501	GTP	C2-N1-C6	-2.72	120.12	125.11
45	PE	501	GTP	C5-C6-N1	2.72	119.26	114.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	TL	501	GDP	C8-N7-C5	2.72	107.18	102.55
45	HG	501	GTP	C5-C6-N1	2.72	119.26	114.07
43	RB	501	GDP	C8-N7-C5	2.71	107.17	102.55
43	RL	501	GDP	C8-N7-C5	2.71	107.17	102.55
45	OK	501	GTP	O3G-PG-O3B	2.71	113.72	104.64
45	DK	501	GTP	O4'-C1'-N9	-2.71	105.16	108.75
43	IL	501	GDP	C4'-O4'-C1'	-2.70	107.45	109.92
43	SL	501	GDP	C8-N7-C5	2.69	107.14	102.55
43	IH	501	GDP	C8-N7-C5	2.69	107.13	102.55
45	HM	501	GTP	O2B-PB-O3A	2.68	114.52	107.27
43	RF	501	GDP	C8-N7-C5	2.67	107.09	102.55
45	BC	501	GTP	C2-N1-C6	-2.67	120.22	125.11
45	QE	501	GTP	C8-N7-C5	2.66	107.08	102.55
45	DK	501	GTP	C4'-O4'-C1'	2.66	112.36	109.92
45	HI	501	GTP	O2A-PA-O3A	2.66	114.45	107.27
45	HG	501	GTP	C2-N1-C6	-2.65	120.26	125.11
45	PA	501	GTP	C4'-O4'-C1'	2.64	112.34	109.92
43	SF	501	GDP	C8-N7-C5	2.64	107.04	102.55
43	IN	501	GDP	C2-N1-C6	-2.64	120.28	125.11
45	DK	501	GTP	O2A-PA-O3A	2.64	114.40	107.27
45	RK	501	GTP	C4'-O4'-C1'	2.63	112.34	109.92
43	IN	501	GDP	C5-C6-N1	2.63	119.08	114.07
45	GF	502	GTP	O6-C6-C5	-2.62	119.12	124.32
45	IE	501	GTP	O3G-PG-O3B	2.62	113.43	104.64
45	QC	501	GTP	C5-C6-N1	2.62	119.07	114.07
45	RE	501	GTP	C4'-O4'-C1'	2.62	112.32	109.92
45	GE	501	GTP	O2B-PB-O3B	2.62	114.35	107.27
45	ME	501	GTP	O4'-C1'-N9	2.62	112.22	108.75
45	VM	501	GTP	C2-N1-C6	-2.60	120.35	125.11
43	BB	501	GDP	O6-C6-C5	-2.60	119.17	124.32
43	JH	501	GDP	C4'-O4'-C1'	-2.59	107.55	109.92
43	TH	501	GDP	C8-N7-C5	2.58	106.95	102.55
45	EI	501	GTP	N1-C2-N3	-2.58	118.60	123.32
45	RG	501	GTP	O2B-PB-O3A	2.57	114.22	107.27
45	GF	502	GTP	O2B-PB-O3A	2.57	114.22	107.27
45	NA	501	GTP	O2B-PB-O3A	2.57	114.21	107.27
43	IF	501	GDP	O2A-PA-O3A	2.56	114.19	107.27
45	EE	501	GTP	O6-C6-C5	-2.56	119.25	124.32
45	TM	501	GTP	O2B-PB-O3A	2.56	114.18	107.27
43	EL	501	GDP	C2'-C3'-C4'	2.55	107.54	102.61
45	OI	501	GTP	C4'-O4'-C1'	2.55	112.26	109.92
45	OK	501	GTP	O6-C6-C5	-2.54	119.28	124.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	QH	501	GDP	C8-N7-C5	2.54	106.87	102.55
43	AL	501	GDP	C4'-O4'-C1'	2.54	112.25	109.92
43	AJ	501	GDP	C4'-O4'-C1'	2.53	112.25	109.92
45	QK	501	GTP	C5-C6-N1	2.53	118.90	114.07
45	QK	501	GTP	O2B-PB-O3B	2.52	114.08	107.27
45	HM	501	GTP	O2A-PA-O3A	2.52	114.08	107.27
45	KC	501	GTP	C4'-O4'-C1'	2.52	112.23	109.92
45	NI	501	GTP	C4'-O4'-C1'	2.51	112.23	109.92
43	CF	501	GDP	C4'-O4'-C1'	-2.50	107.63	109.92
43	ND	501	GDP	C8-N7-C5	2.50	106.81	102.55
43	CF	501	GDP	O4'-C1'-N9	2.50	112.06	108.75
45	IC	501	GTP	C5-C6-N1	2.49	118.82	114.07
45	JG	501	GTP	C4'-O4'-C1'	2.48	112.20	109.92
45	SK	501	GTP	C4'-O4'-C1'	2.48	112.20	109.92
45	BC	501	GTP	O2B-PB-O3A	2.48	113.98	107.27
45	BK	501	GTP	C4'-O4'-C1'	2.48	112.19	109.92
45	HC	501	GTP	C4'-O4'-C1'	2.47	112.19	109.92
45	UE	501	GTP	C4'-O4'-C1'	2.47	112.19	109.92
45	PI	501	GTP	O4'-C1'-N9	2.47	112.02	108.75
45	HK	501	GTP	O4'-C1'-N9	-2.47	105.48	108.75
45	VG	501	GTP	O6-C6-C5	-2.46	119.43	124.32
43	EH	501	GDP	C2-N1-C6	-2.45	120.62	125.11
45	SG	501	GTP	O6-C6-N1	-2.45	117.71	120.62
45	IE	501	GTP	C4'-O4'-C1'	2.45	112.17	109.92
43	HH	501	GDP	C5-C6-N1	2.45	118.74	114.07
45	NK	501	GTP	O6-C6-C5	-2.44	119.48	124.32
45	VK	501	GTP	C4'-O4'-C1'	2.44	112.16	109.92
45	BG	501	GTP	C4'-O4'-C1'	2.43	112.15	109.92
43	IN	501	GDP	O6-C6-C5	-2.43	119.50	124.32
43	PD	501	GDP	O4'-C1'-N9	2.43	111.97	108.75
45	UI	501	GTP	O6-C6-N1	-2.43	117.74	120.62
45	HK	501	GTP	O6-C6-C5	-2.42	119.53	124.32
43	QH	501	GDP	C5-C6-N1	2.41	118.67	114.07
45	SG	501	GTP	O4'-C1'-N9	-2.41	105.55	108.75
43	UJ	501	GDP	C8-N7-C5	2.40	106.64	102.55
45	WG	501	GTP	C4'-O4'-C1'	2.40	112.12	109.92
45	PC	501	GTP	C4'-O4'-C1'	2.39	112.11	109.92
43	QJ	501	GDP	C5'-C4'-C3'	-2.38	106.64	115.21
45	GK	501	GTP	C4'-O4'-C1'	2.38	112.10	109.92
45	MM	501	GTP	C4'-O4'-C1'	2.37	112.10	109.92
45	HI	501	GTP	O4'-C1'-N9	2.37	111.89	108.75
43	TJ	501	GDP	C5-C6-N1	2.37	118.59	114.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
45	UC	501	GTP	O2A-PA-O3A	2.36	113.65	107.27
45	AF	502	GTP	O2A-PA-O3A	2.35	113.63	107.27
45	AF	502	GTP	O3G-PG-O3B	2.35	112.52	104.64
43	IH	501	GDP	C4'-O4'-C1'	2.34	112.07	109.92
45	OA	501	GTP	O2A-PA-O3A	2.34	113.60	107.27
45	RG	501	GTP	C2'-C3'-C4'	2.34	107.13	102.61
45	TE	501	GTP	O3G-PG-O3B	2.34	112.48	104.64
45	FF	502	GTP	O6-C6-C5	-2.34	119.68	124.32
43	DD	501	GDP	O4'-C1'-N9	2.34	111.85	108.75
45	DG	501	GTP	O6-C6-C5	-2.33	119.69	124.32
43	PB	501	GDP	C4'-O4'-C1'	-2.33	107.80	109.92
45	WM	501	GTP	C4'-O4'-C1'	2.32	112.05	109.92
45	UK	501	GTP	C4'-O4'-C1'	2.32	112.05	109.92
45	HG	501	GTP	O6-C6-C5	-2.32	119.73	124.32
45	MC	501	GTP	C4'-O4'-C1'	2.31	112.05	109.92
43	AB	501	GDP	C5-C6-N1	2.31	118.48	114.07
45	ME	501	GTP	O6-C6-C5	-2.31	119.74	124.32
45	EC	501	GTP	O6-C6-C5	-2.31	119.75	124.32
45	LF	502	GTP	O3G-PG-O3B	2.31	112.37	104.64
45	HK	501	GTP	C4'-O4'-C1'	2.30	112.03	109.92
43	LH	501	GDP	C5-C6-N1	2.30	118.46	114.07
45	EG	501	GTP	O6-C6-C5	-2.30	119.76	124.32
45	MK	501	GTP	O6-C6-C5	-2.29	119.78	124.32
43	EH	501	GDP	C8-N7-C5	2.29	106.45	102.55
43	RJ	501	GDP	C4'-O4'-C1'	-2.29	107.83	109.92
43	BB	501	GDP	C5-C6-N1	2.29	118.44	114.07
43	VH	501	GDP	O4'-C1'-N9	2.28	111.77	108.75
45	HM	501	GTP	C4'-O4'-C1'	2.28	112.01	109.92
45	AE	501	GTP	O6-C6-C5	-2.28	119.80	124.32
45	LM	501	GTP	O6-C6-C5	-2.28	119.81	124.32
45	RG	501	GTP	O3G-PG-O3B	2.27	112.26	104.64
45	FE	501	GTP	O6-C6-C5	-2.27	119.82	124.32
45	LK	501	GTP	O6-C6-C5	-2.27	119.83	124.32
43	LJ	501	GDP	C2'-C3'-C4'	2.27	106.99	102.61
43	AB	501	GDP	C8-N7-C5	2.26	106.41	102.55
45	FK	501	GTP	O2B-PB-O3A	2.26	113.39	107.27
45	RI	501	GTP	O4'-C1'-N9	2.26	111.74	108.75
43	QH	501	GDP	O6-C6-C5	-2.26	119.84	124.32
45	RI	501	GTP	O3G-PG-O3B	2.26	112.21	104.64
43	MN	501	GDP	O6-C6-C5	-2.26	119.84	124.32
43	NL	501	GDP	C5-C6-N1	2.25	118.37	114.07
45	KE	501	GTP	O6-C6-C5	-2.25	119.86	124.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
45	WI	501	GTP	O3G-PG-O3B	2.25	112.17	104.64
45	BI	501	GTP	O4'-C1'-N9	2.24	111.71	108.75
45	QC	501	GTP	C2-N1-C6	-2.24	121.02	125.11
45	WK	501	GTP	O6-C6-C5	-2.23	119.89	124.32
43	BB	501	GDP	C4'-O4'-C1'	2.23	111.97	109.92
43	TL	501	GDP	C5-C6-N1	2.23	118.33	114.07
45	CE	501	GTP	C8-N7-C5	2.23	106.35	102.55
43	QJ	501	GDP	C2'-C3'-C4'	2.23	106.92	102.61
45	NI	501	GTP	O2G-PG-O3B	2.23	112.12	104.64
43	FF	501	GDP	C4'-O4'-C1'	2.23	111.97	109.92
45	KE	501	GTP	C4'-O4'-C1'	2.23	111.96	109.92
45	DK	501	GTP	O6-C6-C5	-2.22	119.91	124.32
45	CK	501	GTP	C4'-O4'-C1'	2.22	111.96	109.92
45	AF	502	GTP	O6-C6-C5	-2.22	119.92	124.32
43	LD	501	GDP	C5-C6-N1	2.22	118.30	114.07
45	FK	501	GTP	O6-C6-C5	-2.22	119.93	124.32
45	WC	501	GTP	O6-C6-C5	-2.21	119.94	124.32
45	VC	501	GTP	O3G-PG-O3B	2.21	112.05	104.64
45	QG	501	GTP	C4'-O4'-C1'	2.21	111.95	109.92
45	BI	501	GTP	O6-C6-C5	-2.21	119.94	124.32
45	QG	501	GTP	O6-C6-C5	-2.21	119.95	124.32
45	CM	501	GTP	N2-C2-N1	2.21	121.42	116.76
45	TE	501	GTP	O2B-PB-O3A	2.20	113.23	107.27
43	UJ	501	GDP	C5-C6-N1	2.20	118.27	114.07
45	NE	501	GTP	O6-C6-C5	-2.20	119.96	124.32
45	BK	501	GTP	O6-C6-C5	-2.20	119.97	124.32
45	EI	501	GTP	C5-C6-N1	2.19	118.25	114.07
45	VG	501	GTP	O3G-PG-O3B	2.19	111.99	104.64
43	PL	501	GDP	O2A-PA-O3A	2.19	113.20	107.27
45	LE	501	GTP	O6-C6-C5	-2.19	119.97	124.32
45	VK	501	GTP	O6-C6-C5	-2.19	119.97	124.32
45	FM	501	GTP	O6-C6-C5	-2.19	119.98	124.32
45	EI	501	GTP	O6-C6-N1	2.19	123.22	120.62
45	JE	501	GTP	O3G-PG-O3B	2.19	111.97	104.64
45	PE	501	GTP	O6-C6-C5	-2.19	119.99	124.32
43	HJ	501	GDP	C2'-C3'-C4'	2.19	106.83	102.61
43	DL	501	GDP	C5-C6-N1	2.18	118.24	114.07
45	VC	501	GTP	O6-C6-C5	-2.18	119.99	124.32
43	EH	501	GDP	C5-C6-N1	2.18	118.23	114.07
45	KG	501	GTP	O6-C6-C5	-2.18	120.00	124.32
43	MJ	501	GDP	C5-C6-N1	2.18	118.22	114.07
45	CI	501	GTP	O2B-PB-O3A	2.18	113.15	107.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
45	BG	501	GTP	O6-C6-C5	-2.17	120.01	124.32
43	JL	501	GDP	C5-C6-N1	2.17	118.20	114.07
45	AC	501	GTP	O6-C6-C5	-2.17	120.03	124.32
45	LM	501	GTP	O2A-PA-O3A	2.16	113.12	107.27
43	BH	501	GDP	C5-C6-N1	2.16	118.20	114.07
43	JJ	501	GDP	C2'-C3'-C4'	2.16	106.79	102.61
45	IE	501	GTP	O6-C6-C5	-2.16	120.04	124.32
43	MN	501	GDP	C5-C6-N1	2.16	118.19	114.07
43	PF	501	GDP	C5-C6-N1	2.15	118.18	114.07
45	TK	501	GTP	O3G-PG-O3B	2.15	111.86	104.64
45	PC	501	GTP	O4'-C1'-N9	-2.15	105.89	108.75
43	WJ	501	GDP	C5-C6-N1	2.15	118.17	114.07
43	NJ	501	GDP	C5-C6-N1	2.15	118.17	114.07
45	OC	501	GTP	O6-C6-C5	-2.15	120.06	124.32
43	LH	501	GDP	C2'-C3'-C4'	2.15	106.76	102.61
45	VM	501	GTP	O2A-PA-O3A	2.15	113.08	107.27
45	HC	501	GTP	O6-C6-C5	-2.15	120.06	124.32
45	HM	501	GTP	O6-C6-C5	-2.15	120.07	124.32
45	JI	501	GTP	O6-C6-C5	-2.14	120.07	124.32
45	AI	501	GTP	O6-C6-C5	-2.14	120.07	124.32
45	JG	501	GTP	O6-C6-C5	-2.14	120.07	124.32
43	ID	501	GDP	C5-C6-N1	2.14	118.16	114.07
45	SC	501	GTP	O6-C6-C5	-2.14	120.08	124.32
43	PJ	501	GDP	C5-C6-N1	2.14	118.15	114.07
45	UK	501	GTP	O6-C6-C5	-2.14	120.08	124.32
43	BF	501	GDP	C5-C6-N1	2.14	118.15	114.07
45	HG	501	GTP	N2-C2-N1	2.14	121.28	116.76
45	MC	501	GTP	O2B-PB-O3A	2.14	113.05	107.27
43	WL	501	GDP	C5-C6-N1	2.14	118.15	114.07
45	GM	501	GTP	O6-C6-C5	-2.14	120.08	124.32
43	HF	501	GDP	C5-C6-N1	2.14	118.14	114.07
43	PH	501	GDP	C5-C6-N1	2.13	118.14	114.07
45	NE	501	GTP	O3G-PG-O3B	2.13	111.79	104.64
43	OH	501	GDP	C2'-C3'-C4'	2.13	106.73	102.61
43	UF	501	GDP	C5-C6-N1	2.13	118.14	114.07
43	PB	501	GDP	C5-C6-N1	2.13	118.14	114.07
45	FI	501	GTP	O6-C6-C5	-2.13	120.09	124.32
45	SI	501	GTP	O6-C6-C5	-2.13	120.09	124.32
43	JL	501	GDP	O3B-PB-O3A	2.13	111.78	104.64
45	RG	501	GTP	O6-C6-C5	-2.13	120.10	124.32
45	TG	501	GTP	O6-C6-C5	-2.13	120.10	124.32
43	WD	501	GDP	C5-C6-N1	2.13	118.13	114.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
45	WM	501	GTP	O6-C6-C5	-2.13	120.10	124.32
45	IK	501	GTP	O2B-PB-O3A	2.13	113.03	107.27
45	AK	501	GTP	O6-C6-C5	-2.13	120.10	124.32
43	BL	501	GDP	O2A-PA-O3A	2.13	113.02	107.27
43	SH	501	GDP	C5-C6-N1	2.13	118.13	114.07
43	FF	501	GDP	O6-C6-C5	-2.12	120.11	124.32
43	QF	501	GDP	C5-C6-N1	2.12	118.12	114.07
43	FH	501	GDP	C5-C6-N1	2.12	118.12	114.07
45	DM	501	GTP	O6-C6-C5	-2.12	120.12	124.32
43	EJ	501	GDP	C4'-O4'-C1'	2.12	111.87	109.92
45	EM	501	GTP	O6-C6-C5	-2.12	120.12	124.32
43	DD	501	GDP	C4'-O4'-C1'	-2.12	107.98	109.92
43	DB	501	GDP	O4'-C1'-N9	2.12	111.55	108.75
45	OI	501	GTP	O6-C6-C5	-2.12	120.12	124.32
45	LI	501	GTP	O6-C6-C5	-2.12	120.12	124.32
43	NH	501	GDP	C5-C6-N1	2.12	118.11	114.07
43	PJ	501	GDP	O4'-C1'-N9	2.12	111.55	108.75
43	GL	501	GDP	C5-C6-N1	2.12	118.11	114.07
43	TF	501	GDP	C5-C6-N1	2.12	118.11	114.07
43	KJ	501	GDP	C5-C6-N1	2.12	118.11	114.07
43	HL	501	GDP	C5-C6-N1	2.11	118.10	114.07
45	IM	501	GTP	O6-C6-C5	-2.11	120.13	124.32
43	LF	501	GDP	C5-C6-N1	2.11	118.10	114.07
43	BD	501	GDP	C5-C6-N1	2.11	118.10	114.07
43	PD	501	GDP	C5-C6-N1	2.11	118.10	114.07
45	KK	501	GTP	O2A-PA-O3A	2.11	112.98	107.27
43	TL	501	GDP	O6-C6-C5	-2.11	120.14	124.32
43	OJ	501	GDP	C5-C6-N1	2.11	118.09	114.07
45	NA	501	GTP	O6-C6-C5	-2.11	120.14	124.32
43	GJ	501	GDP	C5-C6-N1	2.11	118.09	114.07
45	PK	501	GTP	O6-C6-C5	-2.11	120.14	124.32
43	UL	501	GDP	C5-C6-N1	2.11	118.09	114.07
43	DF	501	GDP	C4'-O4'-C1'	2.11	111.85	109.92
45	WE	501	GTP	O6-C6-C5	-2.11	120.15	124.32
45	RC	501	GTP	O6-C6-C5	-2.10	120.15	124.32
43	CB	501	GDP	C5-C6-N1	2.10	118.08	114.07
43	DD	501	GDP	C5-C6-N1	2.10	118.08	114.07
45	SK	501	GTP	O6-C6-C5	-2.10	120.15	124.32
43	PF	501	GDP	O4'-C1'-N9	2.10	111.53	108.75
45	CE	501	GTP	O6-C6-C5	-2.10	120.16	124.32
45	WG	501	GTP	O6-C6-C5	-2.10	120.16	124.32
43	CL	501	GDP	C5-C6-N1	2.10	118.08	114.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	OB	501	GDP	C2'-C3'-C4'	2.10	106.67	102.61
43	OF	501	GDP	C5-C6-N1	2.10	118.08	114.07
43	CF	501	GDP	C5-C6-N1	2.10	118.08	114.07
43	CJ	501	GDP	C5-C6-N1	2.10	118.08	114.07
45	MC	501	GTP	O6-C6-C5	-2.10	120.16	124.32
43	ID	501	GDP	C2'-C3'-C4'	2.10	106.66	102.61
45	RE	501	GTP	O2B-PB-O3A	2.10	112.94	107.27
45	KC	501	GTP	O6-C6-C5	-2.10	120.16	124.32
43	QJ	501	GDP	C5-C6-N1	2.10	118.07	114.07
45	RE	501	GTP	O6-C6-C5	-2.09	120.17	124.32
45	OA	501	GTP	O6-C6-C5	-2.09	120.17	124.32
43	PH	501	GDP	O4'-C1'-N9	2.09	111.52	108.75
45	LM	501	GTP	O2B-PB-O3A	2.09	112.92	107.27
45	KI	501	GTP	O6-C6-C5	-2.09	120.18	124.32
45	EM	501	GTP	O4'-C1'-N9	2.09	111.52	108.75
45	EM	501	GTP	O3G-PG-O3B	2.09	111.64	104.64
43	UH	501	GDP	C5-C6-N1	2.09	118.05	114.07
45	QI	501	GTP	O6-C6-C5	-2.09	120.18	124.32
45	BE	501	GTP	O6-C6-C5	-2.09	120.18	124.32
43	LJ	501	GDP	C5-C6-N1	2.09	118.05	114.07
43	MD	501	GDP	C5-C6-N1	2.09	118.05	114.07
43	ML	501	GDP	C5-C6-N1	2.08	118.05	114.07
43	JF	501	GDP	C5-C6-N1	2.08	118.05	114.07
45	GI	501	GTP	O4'-C1'-N9	-2.08	105.98	108.75
45	PA	501	GTP	O6-C6-C5	-2.08	120.19	124.32
43	KN	501	GDP	C5-C6-N1	2.08	118.04	114.07
45	AC	501	GTP	C4'-O4'-C1'	2.08	111.83	109.92
43	RB	501	GDP	O6-C6-C5	-2.08	120.20	124.32
43	UD	501	GDP	C5-C6-N1	2.08	118.03	114.07
43	OD	501	GDP	C5-C6-N1	2.08	118.03	114.07
45	VM	501	GTP	N1-C2-N3	-2.08	119.51	123.32
43	KF	501	GDP	C5-C6-N1	2.08	118.03	114.07
43	RJ	501	GDP	C5-C6-N1	2.08	118.03	114.07
45	TI	501	GTP	O4'-C1'-N9	-2.08	105.99	108.75
45	UG	501	GTP	O6-C6-C5	-2.08	120.20	124.32
43	HB	501	GDP	C5-C6-N1	2.07	118.03	114.07
43	RF	501	GDP	C5-C6-N1	2.07	118.03	114.07
45	GF	502	GTP	O4'-C1'-N9	2.07	111.50	108.75
43	EL	501	GDP	C5-C6-N1	2.07	118.03	114.07
43	GJ	501	GDP	C4'-O4'-C1'	2.07	111.82	109.92
43	CH	501	GDP	C5-C6-N1	2.07	118.03	114.07
45	CG	501	GTP	O3G-PG-O3B	2.07	111.59	104.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	IL	501	GDP	C5-C6-N1	2.07	118.02	114.07
45	DC	501	GTP	N2-C2-N1	2.07	121.14	116.76
43	AD	501	GDP	C5-C6-N1	2.07	118.02	114.07
43	VJ	501	GDP	C5-C6-N1	2.07	118.02	114.07
43	JD	501	GDP	C5-C6-N1	2.07	118.02	114.07
45	IC	501	GTP	C2-N1-C6	-2.07	121.32	125.11
45	CG	501	GTP	O6-C6-C5	-2.07	120.22	124.32
43	VD	501	GDP	C5-C6-N1	2.07	118.01	114.07
43	OL	501	GDP	C5-C6-N1	2.07	118.01	114.07
45	OC	501	GTP	C2'-C3'-C4'	2.07	106.60	102.61
43	WH	501	GDP	C5-C6-N1	2.07	118.01	114.07
45	WM	501	GTP	C2'-C3'-C4'	2.06	106.60	102.61
43	MH	501	GDP	C5-C6-N1	2.06	118.01	114.07
45	CK	501	GTP	O6-C6-C5	-2.06	120.23	124.32
43	VF	501	GDP	C5-C6-N1	2.06	118.00	114.07
43	AH	501	GDP	C5-C6-N1	2.06	118.00	114.07
43	HJ	501	GDP	C5-C6-N1	2.06	118.00	114.07
43	SH	501	GDP	O2A-PA-O3A	2.06	112.84	107.27
43	DB	501	GDP	C5-C6-N1	2.06	118.00	114.07
45	FE	501	GTP	C4'-O4'-C1'	2.06	111.81	109.92
43	AF	501	GDP	C5-C6-N1	2.06	118.00	114.07
45	CC	501	GTP	O6-C6-C5	-2.06	120.24	124.32
45	DI	501	GTP	O2B-PB-O3A	2.06	112.84	107.27
45	NC	501	GTP	C4'-O4'-C1'	2.06	111.81	109.92
43	KD	501	GDP	C5-C6-N1	2.06	118.00	114.07
45	VE	501	GTP	O6-C6-C5	-2.06	120.24	124.32
45	SM	501	GTP	C5'-C4'-C3'	-2.06	107.80	115.21
45	RE	501	GTP	O2A-PA-O3A	2.06	112.83	107.27
43	DL	501	GDP	O6-C6-C5	-2.06	120.25	124.32
43	FD	501	GDP	C5-C6-N1	2.06	117.99	114.07
43	BL	501	GDP	C5-C6-N1	2.05	117.98	114.07
43	IJ	501	GDP	C5-C6-N1	2.05	117.98	114.07
45	TK	501	GTP	N1-C2-N3	-2.05	119.56	123.32
45	NG	501	GTP	O3G-PG-O3B	2.05	111.51	104.64
43	SF	501	GDP	C5-C6-N1	2.05	117.98	114.07
45	OG	501	GTP	O6-C6-C5	-2.05	120.26	124.32
43	JJ	501	GDP	C5-C6-N1	2.05	117.98	114.07
45	CM	501	GTP	O6-C6-C5	-2.05	120.26	124.32
45	LK	501	GTP	O2B-PB-O3A	2.05	112.81	107.27
43	VL	501	GDP	C2'-C3'-C4'	2.05	106.56	102.61
43	PD	501	GDP	C2'-C3'-C4'	2.05	106.56	102.61
43	ED	501	GDP	C5-C6-N1	2.05	117.97	114.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	QD	501	GDP	C5-C6-N1	2.05	117.97	114.07
45	UE	501	GTP	O6-C6-C5	-2.04	120.27	124.32
43	GD	501	GDP	C5-C6-N1	2.04	117.97	114.07
43	HL	501	GDP	C4'-O4'-C1'	2.04	111.80	109.92
45	GK	501	GTP	O6-C6-C5	-2.04	120.27	124.32
43	MJ	501	GDP	C2'-C3'-C4'	2.04	106.56	102.61
43	AL	501	GDP	C5-C6-N1	2.04	117.97	114.07
45	DM	501	GTP	O2B-PB-O3A	2.04	112.79	107.27
45	DC	501	GTP	O6-C6-C5	-2.04	120.27	124.32
43	KL	501	GDP	C5-C6-N1	2.04	117.96	114.07
43	JL	501	GDP	O2A-PA-O3A	2.04	112.79	107.27
45	AF	502	GTP	C4'-O4'-C1'	2.04	111.79	109.92
45	JK	501	GTP	O6-C6-C5	-2.04	120.28	124.32
45	PC	501	GTP	O6-C6-C5	-2.04	120.28	124.32
45	PE	501	GTP	O2G-PG-O3B	2.04	111.47	104.64
43	LL	501	GDP	C5-C6-N1	2.04	117.96	114.07
45	TM	501	GTP	O2A-PA-O3A	2.04	112.78	107.27
43	QB	501	GDP	C5-C6-N1	2.04	117.95	114.07
45	UE	501	GTP	N1-C2-N3	-2.03	119.59	123.32
45	LC	501	GTP	O6-C6-C5	-2.03	120.29	124.32
45	UC	501	GTP	O2G-PG-O3B	2.03	111.45	104.64
43	BJ	501	GDP	C5-C6-N1	2.03	117.94	114.07
45	OC	501	GTP	O2G-PG-O3B	2.03	111.44	104.64
45	TM	501	GTP	O6-C6-C5	-2.03	120.30	124.32
45	LK	501	GTP	O2A-PA-O3A	2.03	112.76	107.27
43	SD	501	GDP	C5-C6-N1	2.03	117.94	114.07
45	IG	501	GTP	O6-C6-C5	-2.03	120.30	124.32
43	HD	501	GDP	C5-C6-N1	2.03	117.94	114.07
43	CD	501	GDP	C5-C6-N1	2.03	117.94	114.07
43	NB	501	GDP	C5-C6-N1	2.03	117.93	114.07
45	GE	501	GTP	O6-C6-C5	-2.03	120.31	124.32
45	IC	501	GTP	N1-C2-N3	-2.02	119.61	123.32
45	HI	501	GTP	O6-C6-C5	-2.02	120.31	124.32
43	PL	501	GDP	C2'-C3'-C4'	2.02	106.52	102.61
43	VL	501	GDP	C5-C6-N1	2.02	117.93	114.07
43	RL	501	GDP	O6-C6-C5	-2.02	120.31	124.32
45	NG	501	GTP	O6-C6-C5	-2.02	120.31	124.32
43	IH	501	GDP	C5-C6-N1	2.02	117.93	114.07
43	AJ	501	GDP	C5-C6-N1	2.02	117.93	114.07
43	UJ	501	GDP	C4'-O4'-C1'	2.02	111.78	109.92
43	RL	501	GDP	C5-C6-N1	2.02	117.92	114.07
43	VJ	501	GDP	C2'-C3'-C4'	2.02	106.51	102.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
45	DE	501	GTP	O3G-PG-O3B	2.02	111.41	104.64
45	VI	501	GTP	O6-C6-C5	-2.02	120.32	124.32
43	WF	501	GDP	C5-C6-N1	2.02	117.92	114.07
45	JM	501	GTP	O6-C6-C5	-2.02	120.32	124.32
43	TD	501	GDP	C5-C6-N1	2.02	117.92	114.07
43	OB	501	GDP	C5-C6-N1	2.02	117.92	114.07
45	KI	501	GTP	O2A-PA-O3A	2.02	112.72	107.27
43	EF	501	GDP	C5-C6-N1	2.01	117.91	114.07
45	SE	501	GTP	O6-C6-C5	-2.01	120.33	124.32
45	NI	501	GTP	O6-C6-C5	-2.01	120.33	124.32
45	VI	501	GTP	O2B-PB-O3A	2.01	112.71	107.27
45	IE	501	GTP	O2A-PA-O3A	2.01	112.71	107.27
45	SM	501	GTP	O6-C6-C5	-2.01	120.33	124.32
45	KM	501	GTP	O6-C6-C5	-2.01	120.33	124.32
43	QL	501	GDP	C5-C6-N1	2.01	117.90	114.07
43	IF	501	GDP	C5-C6-N1	2.01	117.90	114.07
43	RD	501	GDP	C5-C6-N1	2.01	117.90	114.07
45	TM	501	GTP	O4'-C1'-N9	2.01	111.41	108.75
45	OI	501	GTP	O2A-PA-O3A	2.01	112.70	107.27
43	MF	501	GDP	C5-C6-N1	2.01	117.90	114.07
45	RG	501	GTP	O5'-C5'-C4'	2.01	115.82	108.99
43	HF	501	GDP	C2'-C3'-C4'	2.00	106.48	102.61
43	BB	501	GDP	O4'-C1'-N9	-2.00	106.09	108.75
45	CK	501	GTP	O3G-PG-O3B	2.00	111.35	104.64
43	TH	501	GDP	C5-C6-N1	2.00	117.89	114.07
43	VF	501	GDP	C2'-C3'-C4'	2.00	106.48	102.61
43	BB	501	GDP	C2-N1-C6	-2.00	121.45	125.11
43	GF	501	GDP	C5-C6-N1	2.00	117.89	114.07

There are no chirality outliers.

All (974) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
43	AB	501	GDP	C5'-O5'-PA-O1A
43	AB	501	GDP	O4'-C4'-C5'-O5'
43	AB	501	GDP	C3'-C4'-C5'-O5'
43	AF	501	GDP	O4'-C4'-C5'-O5'
43	AF	501	GDP	C3'-C4'-C5'-O5'
43	AH	501	GDP	PA-O3A-PB-O2B
43	AH	501	GDP	PA-O3A-PB-O3B
43	BB	501	GDP	C5'-O5'-PA-O3A
43	BD	501	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
43	BF	501	GDP	C5'-O5'-PA-O3A
43	BH	501	GDP	C5'-O5'-PA-O3A
43	BH	501	GDP	C5'-O5'-PA-O1A
43	BH	501	GDP	O4'-C4'-C5'-O5'
43	BJ	501	GDP	C5'-O5'-PA-O3A
43	BJ	501	GDP	C5'-O5'-PA-O1A
43	CB	501	GDP	C5'-O5'-PA-O3A
43	CB	501	GDP	C5'-O5'-PA-O1A
43	CB	501	GDP	O4'-C4'-C5'-O5'
43	CD	501	GDP	PA-O3A-PB-O3B
43	CF	501	GDP	C5'-O5'-PA-O3A
43	CF	501	GDP	C5'-O5'-PA-O2A
43	CH	501	GDP	C5'-O5'-PA-O3A
43	CH	501	GDP	C5'-O5'-PA-O2A
43	CJ	501	GDP	C5'-O5'-PA-O3A
43	DB	501	GDP	PA-O3A-PB-O3B
43	DB	501	GDP	C5'-O5'-PA-O3A
43	DB	501	GDP	C5'-O5'-PA-O2A
43	DD	501	GDP	C5'-O5'-PA-O1A
43	DF	501	GDP	O4'-C4'-C5'-O5'
43	DF	501	GDP	C3'-C4'-C5'-O5'
43	DH	501	GDP	C5'-O5'-PA-O3A
43	DJ	501	GDP	C5'-O5'-PA-O1A
43	DL	501	GDP	PA-O3A-PB-O3B
43	EF	501	GDP	C5'-O5'-PA-O3A
43	EF	501	GDP	C5'-O5'-PA-O2A
43	EJ	501	GDP	C5'-O5'-PA-O3A
43	EJ	501	GDP	C5'-O5'-PA-O1A
43	EL	501	GDP	PA-O3A-PB-O3B
43	FD	501	GDP	C5'-O5'-PA-O3A
43	FD	501	GDP	C5'-O5'-PA-O1A
43	FF	501	GDP	C5'-O5'-PA-O3A
43	FF	501	GDP	C5'-O5'-PA-O1A
43	FF	501	GDP	C5'-O5'-PA-O2A
43	FJ	501	GDP	C5'-O5'-PA-O3A
43	FJ	501	GDP	O4'-C4'-C5'-O5'
43	FL	501	GDP	C5'-O5'-PA-O3A
43	FL	501	GDP	C5'-O5'-PA-O1A
43	FL	501	GDP	C5'-O5'-PA-O2A
43	GF	501	GDP	C5'-O5'-PA-O3A
43	GF	501	GDP	C5'-O5'-PA-O1A
43	GF	501	GDP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
43	HB	501	GDP	PA-O3A-PB-O3B
43	HD	501	GDP	PA-O3A-PB-O2B
43	HD	501	GDP	PA-O3A-PB-O3B
43	HF	501	GDP	C5'-O5'-PA-O1A
43	HH	501	GDP	C5'-O5'-PA-O3A
43	HH	501	GDP	C5'-O5'-PA-O1A
43	HH	501	GDP	C5'-O5'-PA-O2A
43	HJ	501	GDP	C5'-O5'-PA-O3A
43	ID	501	GDP	C5'-O5'-PA-O3A
43	IH	501	GDP	C5'-O5'-PA-O3A
43	IH	501	GDP	C5'-O5'-PA-O1A
43	IH	501	GDP	C5'-O5'-PA-O2A
43	IJ	501	GDP	C5'-O5'-PA-O1A
43	IL	501	GDP	C5'-O5'-PA-O3A
43	IL	501	GDP	C5'-O5'-PA-O1A
43	IL	501	GDP	C5'-O5'-PA-O2A
43	KD	501	GDP	C5'-O5'-PA-O1A
43	KF	501	GDP	PA-O3A-PB-O2B
43	KF	501	GDP	PA-O3A-PB-O3B
43	KN	501	GDP	C5'-O5'-PA-O1A
43	LD	501	GDP	PA-O3A-PB-O3B
43	LF	501	GDP	C5'-O5'-PA-O1A
43	LH	501	GDP	C5'-O5'-PA-O3A
43	LH	501	GDP	C5'-O5'-PA-O2A
43	LJ	501	GDP	PA-O3A-PB-O2B
43	LJ	501	GDP	PA-O3A-PB-O3B
43	LJ	501	GDP	C5'-O5'-PA-O1A
43	LL	501	GDP	C5'-O5'-PA-O3A
43	LN	501	GDP	C5'-O5'-PA-O3A
43	LN	501	GDP	C5'-O5'-PA-O1A
43	LN	501	GDP	C5'-O5'-PA-O2A
43	MF	501	GDP	C5'-O5'-PA-O3A
43	MH	501	GDP	C5'-O5'-PA-O1A
43	MJ	501	GDP	C5'-O5'-PA-O3A
43	MJ	501	GDP	C5'-O5'-PA-O1A
43	MN	501	GDP	C5'-O5'-PA-O3A
43	MN	501	GDP	C5'-O5'-PA-O1A
43	NB	501	GDP	C5'-O5'-PA-O3A
43	NJ	501	GDP	C5'-O5'-PA-O3A
43	NJ	501	GDP	C5'-O5'-PA-O1A
43	NL	501	GDP	C5'-O5'-PA-O3A
43	NL	501	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
43	OB	501	GDP	C5'-O5'-PA-O3A
43	OB	501	GDP	C5'-O5'-PA-O2A
43	OD	501	GDP	PA-O3A-PB-O3B
43	OF	501	GDP	C5'-O5'-PA-O3A
43	OF	501	GDP	C5'-O5'-PA-O1A
43	OJ	501	GDP	PA-O3A-PB-O3B
43	OL	501	GDP	C5'-O5'-PA-O3A
43	PB	501	GDP	PA-O3A-PB-O2B
43	PB	501	GDP	PA-O3A-PB-O3B
43	PD	501	GDP	C5'-O5'-PA-O3A
43	PF	501	GDP	C5'-O5'-PA-O3A
43	PF	501	GDP	C5'-O5'-PA-O1A
43	PH	501	GDP	C5'-O5'-PA-O3A
43	PH	501	GDP	C5'-O5'-PA-O1A
43	PJ	501	GDP	C5'-O5'-PA-O3A
43	PJ	501	GDP	C5'-O5'-PA-O1A
43	PL	501	GDP	C5'-O5'-PA-O1A
43	QD	501	GDP	C5'-O5'-PA-O1A
43	QF	501	GDP	C5'-O5'-PA-O3A
43	QF	501	GDP	C5'-O5'-PA-O1A
43	QH	501	GDP	PA-O3A-PB-O2B
43	QH	501	GDP	PA-O3A-PB-O3B
43	QL	501	GDP	C5'-O5'-PA-O1A
43	RB	501	GDP	C5'-O5'-PA-O1A
43	RL	501	GDP	C5'-O5'-PA-O1A
43	SD	501	GDP	C5'-O5'-PA-O1A
43	SJ	501	GDP	C5'-O5'-PA-O1A
43	SL	501	GDP	C5'-O5'-PA-O1A
43	TF	501	GDP	C5'-O5'-PA-O1A
43	TH	501	GDP	C5'-O5'-PA-O3A
43	TH	501	GDP	C5'-O5'-PA-O1A
43	TL	501	GDP	C5'-O5'-PA-O1A
43	UD	501	GDP	C5'-O5'-PA-O3A
43	UD	501	GDP	C5'-O5'-PA-O2A
43	UH	501	GDP	C5'-O5'-PA-O3A
43	UH	501	GDP	C5'-O5'-PA-O1A
43	UJ	501	GDP	PA-O3A-PB-O3B
43	UJ	501	GDP	C5'-O5'-PA-O1A
43	VD	501	GDP	PA-O3A-PB-O2B
43	VD	501	GDP	PA-O3A-PB-O3B
43	VD	501	GDP	C5'-O5'-PA-O1A
43	VF	501	GDP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
43	VF	501	GDP	C5'-O5'-PA-O1A
43	VH	501	GDP	C5'-O5'-PA-O1A
43	VJ	501	GDP	C5'-O5'-PA-O1A
43	VL	501	GDP	C5'-O5'-PA-O3A
43	VL	501	GDP	C5'-O5'-PA-O1A
43	WH	501	GDP	PA-O3A-PB-O2B
43	WH	501	GDP	PA-O3A-PB-O3B
45	AC	501	GTP	C5'-O5'-PA-O3A
45	AC	501	GTP	C5'-O5'-PA-O1A
45	AC	501	GTP	C5'-O5'-PA-O2A
45	AE	501	GTP	C5'-O5'-PA-O3A
45	AE	501	GTP	C5'-O5'-PA-O2A
45	AE	501	GTP	C4'-C5'-O5'-PA
45	AF	502	GTP	C5'-O5'-PA-O3A
45	AF	502	GTP	C5'-O5'-PA-O1A
45	AF	502	GTP	C5'-O5'-PA-O2A
45	AI	501	GTP	C5'-O5'-PA-O1A
45	AK	501	GTP	O4'-C4'-C5'-O5'
45	BC	501	GTP	C5'-O5'-PA-O1A
45	BG	501	GTP	O4'-C4'-C5'-O5'
45	BI	501	GTP	C5'-O5'-PA-O3A
45	BI	501	GTP	C5'-O5'-PA-O1A
45	BI	501	GTP	C5'-O5'-PA-O2A
45	BK	501	GTP	C5'-O5'-PA-O3A
45	BK	501	GTP	C5'-O5'-PA-O1A
45	BK	501	GTP	C5'-O5'-PA-O2A
45	CC	501	GTP	C5'-O5'-PA-O1A
45	CG	501	GTP	C5'-O5'-PA-O3A
45	CG	501	GTP	C5'-O5'-PA-O2A
45	CI	501	GTP	C5'-O5'-PA-O1A
45	CK	501	GTP	C5'-O5'-PA-O3A
45	CK	501	GTP	C5'-O5'-PA-O2A
45	CK	501	GTP	O4'-C4'-C5'-O5'
45	CM	501	GTP	C5'-O5'-PA-O3A
45	CM	501	GTP	C5'-O5'-PA-O2A
45	CM	501	GTP	C4'-C5'-O5'-PA
45	DC	501	GTP	C5'-O5'-PA-O3A
45	DC	501	GTP	C5'-O5'-PA-O2A
45	DC	501	GTP	O4'-C4'-C5'-O5'
45	DE	501	GTP	PB-O3A-PA-O5'
45	DE	501	GTP	C5'-O5'-PA-O3A
45	DG	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
45	DG	501	GTP	C5'-O5'-PA-O2A
45	DG	501	GTP	C4'-C5'-O5'-PA
45	DI	501	GTP	PB-O3B-PG-O2G
45	DI	501	GTP	PB-O3B-PG-O3G
45	DI	501	GTP	C5'-O5'-PA-O3A
45	DI	501	GTP	C5'-O5'-PA-O1A
45	EE	501	GTP	C5'-O5'-PA-O3A
45	EG	501	GTP	O4'-C4'-C5'-O5'
45	EK	501	GTP	C5'-O5'-PA-O1A
45	EM	501	GTP	PB-O3B-PG-O3G
45	FC	501	GTP	C5'-O5'-PA-O3A
45	FC	501	GTP	C5'-O5'-PA-O1A
45	FC	501	GTP	C5'-O5'-PA-O2A
45	FE	501	GTP	C5'-O5'-PA-O3A
45	FE	501	GTP	C5'-O5'-PA-O1A
45	FE	501	GTP	C5'-O5'-PA-O2A
45	FF	502	GTP	PB-O3A-PA-O5'
45	FF	502	GTP	C5'-O5'-PA-O3A
45	FF	502	GTP	C5'-O5'-PA-O1A
45	FI	501	GTP	C5'-O5'-PA-O3A
45	FI	501	GTP	C5'-O5'-PA-O2A
45	FK	501	GTP	C5'-O5'-PA-O3A
45	FK	501	GTP	C5'-O5'-PA-O1A
45	FK	501	GTP	O4'-C4'-C5'-O5'
45	FM	501	GTP	C5'-O5'-PA-O1A
45	FM	501	GTP	O4'-C4'-C5'-O5'
45	FM	501	GTP	C3'-C4'-C5'-O5'
45	GC	501	GTP	C5'-O5'-PA-O1A
45	GC	501	GTP	C5'-O5'-PA-O2A
45	GE	501	GTP	C5'-O5'-PA-O3A
45	GF	502	GTP	C5'-O5'-PA-O3A
45	GF	502	GTP	C5'-O5'-PA-O1A
45	GF	502	GTP	C5'-O5'-PA-O2A
45	GK	501	GTP	C5'-O5'-PA-O3A
45	GK	501	GTP	C5'-O5'-PA-O1A
45	GK	501	GTP	C5'-O5'-PA-O2A
45	GM	501	GTP	C5'-O5'-PA-O3A
45	GM	501	GTP	C5'-O5'-PA-O2A
45	GM	501	GTP	C4'-C5'-O5'-PA
45	HC	501	GTP	C5'-O5'-PA-O2A
45	HE	501	GTP	C5'-O5'-PA-O3A
45	HE	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
45	HE	501	GTP	C5'-O5'-PA-O2A
45	HG	501	GTP	O4'-C4'-C5'-O5'
45	HK	501	GTP	C5'-O5'-PA-O3A
45	HK	501	GTP	C5'-O5'-PA-O1A
45	HK	501	GTP	C5'-O5'-PA-O2A
45	HM	501	GTP	C5'-O5'-PA-O3A
45	HM	501	GTP	C5'-O5'-PA-O1A
45	IC	501	GTP	C5'-O5'-PA-O3A
45	IE	501	GTP	PB-O3B-PG-O3G
45	IE	501	GTP	O4'-C4'-C5'-O5'
45	IE	501	GTP	C3'-C4'-C5'-O5'
45	IG	501	GTP	C5'-O5'-PA-O3A
45	IG	501	GTP	C5'-O5'-PA-O1A
45	IG	501	GTP	C5'-O5'-PA-O2A
45	JE	501	GTP	C5'-O5'-PA-O3A
45	JE	501	GTP	C5'-O5'-PA-O1A
45	JE	501	GTP	C5'-O5'-PA-O2A
45	JG	501	GTP	C5'-O5'-PA-O3A
45	JK	501	GTP	C5'-O5'-PA-O3A
45	JK	501	GTP	C5'-O5'-PA-O1A
45	JK	501	GTP	C5'-O5'-PA-O2A
45	JM	501	GTP	C5'-O5'-PA-O1A
45	KC	501	GTP	O4'-C4'-C5'-O5'
45	KC	501	GTP	C3'-C4'-C5'-O5'
45	KE	501	GTP	PB-O3B-PG-O2G
45	KE	501	GTP	C5'-O5'-PA-O3A
45	KG	501	GTP	C5'-O5'-PA-O3A
45	KG	501	GTP	C5'-O5'-PA-O1A
45	KI	501	GTP	C5'-O5'-PA-O3A
45	KI	501	GTP	C5'-O5'-PA-O2A
45	KK	501	GTP	PB-O3B-PG-O3G
45	KK	501	GTP	C5'-O5'-PA-O3A
45	KK	501	GTP	C5'-O5'-PA-O2A
45	KK	501	GTP	C4'-C5'-O5'-PA
45	LE	501	GTP	C5'-O5'-PA-O3A
45	LE	501	GTP	C5'-O5'-PA-O1A
45	LE	501	GTP	C5'-O5'-PA-O2A
45	LF	502	GTP	PB-O3A-PA-O5'
45	LF	502	GTP	C5'-O5'-PA-O3A
45	LF	502	GTP	C5'-O5'-PA-O2A
45	LF	502	GTP	O4'-C4'-C5'-O5'
45	LK	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
45	LM	501	GTP	C5'-O5'-PA-O3A
45	LM	501	GTP	C5'-O5'-PA-O2A
45	MC	501	GTP	C5'-O5'-PA-O3A
45	MC	501	GTP	C5'-O5'-PA-O1A
45	MC	501	GTP	C5'-O5'-PA-O2A
45	ME	501	GTP	C5'-O5'-PA-O3A
45	ME	501	GTP	C5'-O5'-PA-O2A
45	MG	501	GTP	C5'-O5'-PA-O3A
45	MG	501	GTP	C5'-O5'-PA-O1A
45	MG	501	GTP	C5'-O5'-PA-O2A
45	MI	501	GTP	C5'-O5'-PA-O3A
45	MI	501	GTP	C5'-O5'-PA-O1A
45	MI	501	GTP	C5'-O5'-PA-O2A
45	MI	501	GTP	O4'-C4'-C5'-O5'
45	MI	501	GTP	C3'-C4'-C5'-O5'
45	MK	501	GTP	C5'-O5'-PA-O3A
45	MK	501	GTP	C5'-O5'-PA-O1A
45	MK	501	GTP	C5'-O5'-PA-O2A
45	NC	501	GTP	C5'-O5'-PA-O3A
45	NC	501	GTP	C5'-O5'-PA-O1A
45	NC	501	GTP	C5'-O5'-PA-O2A
45	NC	501	GTP	O4'-C4'-C5'-O5'
45	NE	501	GTP	C5'-O5'-PA-O3A
45	NE	501	GTP	C5'-O5'-PA-O2A
45	NE	501	GTP	C4'-C5'-O5'-PA
45	NG	501	GTP	C5'-O5'-PA-O3A
45	NG	501	GTP	C5'-O5'-PA-O1A
45	NG	501	GTP	C5'-O5'-PA-O2A
45	NI	501	GTP	C5'-O5'-PA-O3A
45	NI	501	GTP	C5'-O5'-PA-O1A
45	NI	501	GTP	C5'-O5'-PA-O2A
45	OC	501	GTP	C5'-O5'-PA-O3A
45	OC	501	GTP	C5'-O5'-PA-O1A
45	OC	501	GTP	C5'-O5'-PA-O2A
45	OC	501	GTP	O4'-C4'-C5'-O5'
45	OE	501	GTP	C5'-O5'-PA-O1A
45	OI	501	GTP	C5'-O5'-PA-O3A
45	OI	501	GTP	C5'-O5'-PA-O1A
45	OI	501	GTP	C5'-O5'-PA-O2A
45	OK	501	GTP	C5'-O5'-PA-O3A
45	OK	501	GTP	C5'-O5'-PA-O2A
45	PA	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
45	PG	501	GTP	PB-O3B-PG-O3G
45	PG	501	GTP	C5'-O5'-PA-O3A
45	PG	501	GTP	C5'-O5'-PA-O1A
45	PG	501	GTP	C5'-O5'-PA-O2A
45	PK	501	GTP	C5'-O5'-PA-O3A
45	PK	501	GTP	C5'-O5'-PA-O1A
45	QC	501	GTP	C5'-O5'-PA-O2A
45	QE	501	GTP	C5'-O5'-PA-O3A
45	QE	501	GTP	C5'-O5'-PA-O1A
45	QG	501	GTP	C5'-O5'-PA-O2A
45	QI	501	GTP	C5'-O5'-PA-O3A
45	QK	501	GTP	C5'-O5'-PA-O3A
45	QK	501	GTP	C5'-O5'-PA-O1A
45	RC	501	GTP	O4'-C4'-C5'-O5'
45	RE	501	GTP	C5'-O5'-PA-O3A
45	RE	501	GTP	C5'-O5'-PA-O1A
45	RE	501	GTP	O4'-C4'-C5'-O5'
45	RG	501	GTP	C5'-O5'-PA-O1A
45	RG	501	GTP	C5'-O5'-PA-O2A
45	RG	501	GTP	C3'-C4'-C5'-O5'
45	RI	501	GTP	PB-O3B-PG-O3G
45	RI	501	GTP	C5'-O5'-PA-O3A
45	RI	501	GTP	C5'-O5'-PA-O2A
45	RK	501	GTP	PB-O3B-PG-O2G
45	SC	501	GTP	O4'-C4'-C5'-O5'
45	SE	501	GTP	C5'-O5'-PA-O3A
45	SE	501	GTP	C5'-O5'-PA-O1A
45	SI	501	GTP	C5'-O5'-PA-O3A
45	SI	501	GTP	C5'-O5'-PA-O1A
45	SK	501	GTP	C5'-O5'-PA-O3A
45	SK	501	GTP	C5'-O5'-PA-O2A
45	SK	501	GTP	O4'-C4'-C5'-O5'
45	SM	501	GTP	C5'-O5'-PA-O3A
45	SM	501	GTP	C5'-O5'-PA-O2A
45	TE	501	GTP	O4'-C4'-C5'-O5'
45	TI	501	GTP	C5'-O5'-PA-O3A
45	TI	501	GTP	C5'-O5'-PA-O2A
45	TK	501	GTP	O4'-C4'-C5'-O5'
45	TM	501	GTP	O4'-C4'-C5'-O5'
45	UI	501	GTP	C5'-O5'-PA-O3A
45	UI	501	GTP	C5'-O5'-PA-O1A
45	UI	501	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
45	UK	501	GTP	O4'-C4'-C5'-O5'
45	UM	501	GTP	C5'-O5'-PA-O3A
45	UM	501	GTP	C5'-O5'-PA-O2A
45	VC	501	GTP	O4'-C4'-C5'-O5'
45	VC	501	GTP	C3'-C4'-C5'-O5'
45	VG	501	GTP	C5'-O5'-PA-O1A
45	VI	501	GTP	C5'-O5'-PA-O3A
45	VI	501	GTP	C5'-O5'-PA-O1A
45	VI	501	GTP	C5'-O5'-PA-O2A
45	VK	501	GTP	C5'-O5'-PA-O3A
45	VK	501	GTP	C5'-O5'-PA-O1A
45	VK	501	GTP	C5'-O5'-PA-O2A
45	VM	501	GTP	C5'-O5'-PA-O3A
45	VM	501	GTP	C5'-O5'-PA-O2A
45	VM	501	GTP	C4'-C5'-O5'-PA
45	WG	501	GTP	C5'-O5'-PA-O3A
45	WG	501	GTP	C5'-O5'-PA-O2A
45	WI	501	GTP	C5'-O5'-PA-O3A
45	WI	501	GTP	C5'-O5'-PA-O1A
45	WK	501	GTP	C5'-O5'-PA-O1A
45	WM	501	GTP	C5'-O5'-PA-O3A
45	WM	501	GTP	C5'-O5'-PA-O2A
45	WM	501	GTP	C4'-C5'-O5'-PA
43	AD	501	GDP	O4'-C4'-C5'-O5'
43	AD	501	GDP	C3'-C4'-C5'-O5'
43	BH	501	GDP	C3'-C4'-C5'-O5'
43	CB	501	GDP	C3'-C4'-C5'-O5'
43	EJ	501	GDP	O4'-C4'-C5'-O5'
43	EJ	501	GDP	C3'-C4'-C5'-O5'
43	FD	501	GDP	C3'-C4'-C5'-O5'
43	FJ	501	GDP	C3'-C4'-C5'-O5'
43	GF	501	GDP	C3'-C4'-C5'-O5'
43	HD	501	GDP	C3'-C4'-C5'-O5'
43	IL	501	GDP	C3'-C4'-C5'-O5'
43	LD	501	GDP	C3'-C4'-C5'-O5'
43	MN	501	GDP	O4'-C4'-C5'-O5'
43	MN	501	GDP	C3'-C4'-C5'-O5'
43	NF	501	GDP	O4'-C4'-C5'-O5'
43	NF	501	GDP	C3'-C4'-C5'-O5'
43	QL	501	GDP	C3'-C4'-C5'-O5'
43	WJ	501	GDP	C3'-C4'-C5'-O5'
45	AK	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
45	BC	501	GTP	O4'-C4'-C5'-O5'
45	BC	501	GTP	C3'-C4'-C5'-O5'
45	BG	501	GTP	C3'-C4'-C5'-O5'
45	BK	501	GTP	C3'-C4'-C5'-O5'
45	CE	501	GTP	C3'-C4'-C5'-O5'
45	CK	501	GTP	C3'-C4'-C5'-O5'
45	DC	501	GTP	C3'-C4'-C5'-O5'
45	EG	501	GTP	C3'-C4'-C5'-O5'
45	FK	501	GTP	C3'-C4'-C5'-O5'
45	GC	501	GTP	C3'-C4'-C5'-O5'
45	GE	501	GTP	O4'-C4'-C5'-O5'
45	GE	501	GTP	C3'-C4'-C5'-O5'
45	HK	501	GTP	C3'-C4'-C5'-O5'
45	IK	501	GTP	O4'-C4'-C5'-O5'
45	IK	501	GTP	C3'-C4'-C5'-O5'
45	JE	501	GTP	C3'-C4'-C5'-O5'
45	LE	501	GTP	C3'-C4'-C5'-O5'
45	LF	502	GTP	C3'-C4'-C5'-O5'
45	MK	501	GTP	C3'-C4'-C5'-O5'
45	NA	501	GTP	O4'-C4'-C5'-O5'
45	NC	501	GTP	C3'-C4'-C5'-O5'
45	OC	501	GTP	C3'-C4'-C5'-O5'
45	OE	501	GTP	C3'-C4'-C5'-O5'
45	PE	501	GTP	C3'-C4'-C5'-O5'
45	QC	501	GTP	O4'-C4'-C5'-O5'
45	QC	501	GTP	C3'-C4'-C5'-O5'
45	QI	501	GTP	C3'-C4'-C5'-O5'
45	RC	501	GTP	C3'-C4'-C5'-O5'
45	RE	501	GTP	C3'-C4'-C5'-O5'
45	SC	501	GTP	C3'-C4'-C5'-O5'
45	SE	501	GTP	C3'-C4'-C5'-O5'
45	SK	501	GTP	C3'-C4'-C5'-O5'
45	TE	501	GTP	C3'-C4'-C5'-O5'
45	TM	501	GTP	C3'-C4'-C5'-O5'
45	UC	501	GTP	O4'-C4'-C5'-O5'
45	UE	501	GTP	C3'-C4'-C5'-O5'
45	WE	501	GTP	O4'-C4'-C5'-O5'
45	AC	501	GTP	C4'-C5'-O5'-PA
45	DC	501	GTP	C4'-C5'-O5'-PA
45	FC	501	GTP	C4'-C5'-O5'-PA
45	OI	501	GTP	C4'-C5'-O5'-PA
43	DB	501	GDP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
43	FD	501	GDP	O4'-C4'-C5'-O5'
43	GH	501	GDP	O4'-C4'-C5'-O5'
43	LD	501	GDP	O4'-C4'-C5'-O5'
43	LJ	501	GDP	O4'-C4'-C5'-O5'
43	LJ	501	GDP	C3'-C4'-C5'-O5'
43	QL	501	GDP	O4'-C4'-C5'-O5'
43	WJ	501	GDP	O4'-C4'-C5'-O5'
45	BE	501	GTP	O4'-C4'-C5'-O5'
45	BE	501	GTP	C3'-C4'-C5'-O5'
45	BK	501	GTP	O4'-C4'-C5'-O5'
45	CE	501	GTP	O4'-C4'-C5'-O5'
45	DG	501	GTP	C3'-C4'-C5'-O5'
45	EC	501	GTP	O4'-C4'-C5'-O5'
45	GC	501	GTP	O4'-C4'-C5'-O5'
45	GI	501	GTP	O4'-C4'-C5'-O5'
45	HG	501	GTP	C3'-C4'-C5'-O5'
45	HK	501	GTP	O4'-C4'-C5'-O5'
45	LI	501	GTP	O4'-C4'-C5'-O5'
45	LI	501	GTP	C3'-C4'-C5'-O5'
45	NA	501	GTP	C3'-C4'-C5'-O5'
45	OI	501	GTP	C3'-C4'-C5'-O5'
45	PA	501	GTP	C3'-C4'-C5'-O5'
45	PC	501	GTP	O4'-C4'-C5'-O5'
45	PE	501	GTP	O4'-C4'-C5'-O5'
45	RG	501	GTP	O4'-C4'-C5'-O5'
45	SE	501	GTP	O4'-C4'-C5'-O5'
45	SG	501	GTP	O4'-C4'-C5'-O5'
45	SG	501	GTP	C3'-C4'-C5'-O5'
45	UC	501	GTP	C3'-C4'-C5'-O5'
45	VK	501	GTP	C3'-C4'-C5'-O5'
45	VM	501	GTP	C3'-C4'-C5'-O5'
45	WE	501	GTP	C3'-C4'-C5'-O5'
45	QI	501	GTP	C4'-C5'-O5'-PA
45	UE	501	GTP	C4'-C5'-O5'-PA
45	EC	501	GTP	C3'-C4'-C5'-O5'
45	TC	501	GTP	O4'-C4'-C5'-O5'
45	TK	501	GTP	C3'-C4'-C5'-O5'
45	UK	501	GTP	C3'-C4'-C5'-O5'
45	PA	501	GTP	C4'-C5'-O5'-PA
43	AH	501	GDP	C3'-C4'-C5'-O5'
43	AJ	501	GDP	O4'-C4'-C5'-O5'
43	AJ	501	GDP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
43	AL	501	GDP	O4'-C4'-C5'-O5'
43	AL	501	GDP	C3'-C4'-C5'-O5'
43	CL	501	GDP	C3'-C4'-C5'-O5'
43	HH	501	GDP	C3'-C4'-C5'-O5'
43	VD	501	GDP	C3'-C4'-C5'-O5'
45	FC	501	GTP	C3'-C4'-C5'-O5'
45	GI	501	GTP	C3'-C4'-C5'-O5'
45	LE	501	GTP	O4'-C4'-C5'-O5'
45	MC	501	GTP	C3'-C4'-C5'-O5'
45	MM	501	GTP	C3'-C4'-C5'-O5'
45	OA	501	GTP	O4'-C4'-C5'-O5'
45	OA	501	GTP	C3'-C4'-C5'-O5'
45	VK	501	GTP	O4'-C4'-C5'-O5'
45	MK	501	GTP	C4'-C5'-O5'-PA
43	GH	501	GDP	C3'-C4'-C5'-O5'
43	VD	501	GDP	O4'-C4'-C5'-O5'
45	DG	501	GTP	O4'-C4'-C5'-O5'
45	GM	501	GTP	C3'-C4'-C5'-O5'
45	HI	501	GTP	C3'-C4'-C5'-O5'
45	JE	501	GTP	O4'-C4'-C5'-O5'
45	LC	501	GTP	O4'-C4'-C5'-O5'
45	MM	501	GTP	O4'-C4'-C5'-O5'
45	OE	501	GTP	O4'-C4'-C5'-O5'
45	OI	501	GTP	O4'-C4'-C5'-O5'
45	UE	501	GTP	O4'-C4'-C5'-O5'
45	VM	501	GTP	O4'-C4'-C5'-O5'
45	WM	501	GTP	C3'-C4'-C5'-O5'
45	AF	502	GTP	C4'-C5'-O5'-PA
45	CE	501	GTP	C4'-C5'-O5'-PA
45	NI	501	GTP	C4'-C5'-O5'-PA
45	RI	501	GTP	C4'-C5'-O5'-PA
45	UM	501	GTP	C4'-C5'-O5'-PA
45	WG	501	GTP	C4'-C5'-O5'-PA
43	AH	501	GDP	O4'-C4'-C5'-O5'
43	CL	501	GDP	O4'-C4'-C5'-O5'
43	HD	501	GDP	O4'-C4'-C5'-O5'
43	IL	501	GDP	O4'-C4'-C5'-O5'
43	WH	501	GDP	C3'-C4'-C5'-O5'
45	MC	501	GTP	O4'-C4'-C5'-O5'
45	MK	501	GTP	O4'-C4'-C5'-O5'
45	PA	501	GTP	O4'-C4'-C5'-O5'
45	QI	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
45	RK	501	GTP	O4'-C4'-C5'-O5'
45	TI	501	GTP	O4'-C4'-C5'-O5'
45	TI	501	GTP	C3'-C4'-C5'-O5'
43	HB	501	GDP	PA-O3A-PB-O1B
43	DL	501	GDP	C3'-C4'-C5'-O5'
45	LC	501	GTP	C3'-C4'-C5'-O5'
45	PC	501	GTP	C3'-C4'-C5'-O5'
45	IG	501	GTP	PA-O3A-PB-O1B
45	LC	501	GTP	PB-O3A-PA-O1A
45	QE	501	GTP	PB-O3A-PA-O1A
45	UG	501	GTP	PA-O3A-PB-O1B
45	UI	501	GTP	PA-O3A-PB-O1B
45	FK	501	GTP	C4'-C5'-O5'-PA
45	GK	501	GTP	C4'-C5'-O5'-PA
45	MM	501	GTP	C4'-C5'-O5'-PA
45	RC	501	GTP	C4'-C5'-O5'-PA
43	HH	501	GDP	O4'-C4'-C5'-O5'
45	AI	501	GTP	C3'-C4'-C5'-O5'
45	RK	501	GTP	C3'-C4'-C5'-O5'
45	JK	501	GTP	PA-O3A-PB-O3B
45	BI	501	GTP	C4'-C5'-O5'-PA
45	JI	501	GTP	C4'-C5'-O5'-PA
45	MI	501	GTP	C4'-C5'-O5'-PA
45	OE	501	GTP	C4'-C5'-O5'-PA
45	TC	501	GTP	C4'-C5'-O5'-PA
45	UI	501	GTP	C4'-C5'-O5'-PA
45	HI	501	GTP	O4'-C4'-C5'-O5'
45	EE	501	GTP	PB-O3A-PA-O5'
45	JE	501	GTP	PB-O3A-PA-O5'
45	OG	501	GTP	PB-O3A-PA-O5'
45	PE	501	GTP	PB-O3A-PA-O5'
45	SK	501	GTP	PB-O3A-PA-O5'
45	SM	501	GTP	PB-O3A-PA-O5'
45	TI	501	GTP	PB-O3A-PA-O5'
45	UI	501	GTP	PB-O3A-PA-O5'
45	VG	501	GTP	PB-O3A-PA-O5'
45	IG	501	GTP	C4'-C5'-O5'-PA
45	PE	501	GTP	C4'-C5'-O5'-PA
43	DB	501	GDP	C3'-C4'-C5'-O5'
43	MH	501	GDP	C3'-C4'-C5'-O5'
45	EI	501	GTP	C3'-C4'-C5'-O5'
45	LF	502	GTP	PB-O3B-PG-O1G

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Mol	Chain	Res	Type	Atoms
43	CD	501	GDP	PA-O3A-PB-O2B
43	DL	501	GDP	PA-O3A-PB-O2B
43	UJ	501	GDP	PA-O3A-PB-O2B
45	CG	501	GTP	PB-O3B-PG-O2G
45	GF	502	GTP	PB-O3B-PG-O2G
45	JM	501	GTP	PB-O3B-PG-O3G
45	KM	501	GTP	PB-O3B-PG-O3G
45	LM	501	GTP	PB-O3B-PG-O3G
45	OA	501	GTP	PB-O3B-PG-O2G
43	HB	501	GDP	C3'-C4'-C5'-O5'
43	NB	501	GDP	C3'-C4'-C5'-O5'
45	TC	501	GTP	C3'-C4'-C5'-O5'
45	UG	501	GTP	C3'-C4'-C5'-O5'
45	WM	501	GTP	O4'-C4'-C5'-O5'
45	DM	501	GTP	C4'-C5'-O5'-PA
45	KE	501	GTP	C4'-C5'-O5'-PA
43	MJ	501	GDP	PB-O3A-PA-O1A
45	BE	501	GTP	PB-O3A-PA-O2A
45	DC	501	GTP	PA-O3A-PB-O2B
45	DG	501	GTP	PA-O3A-PB-O2B
45	FC	501	GTP	PA-O3A-PB-O2B
45	FF	502	GTP	PG-O3B-PB-O1B
45	GF	502	GTP	PA-O3A-PB-O2B
45	HM	501	GTP	PA-O3A-PB-O2B
45	IM	501	GTP	PG-O3B-PB-O1B
45	JK	501	GTP	PG-O3B-PB-O1B
45	LK	501	GTP	PB-O3A-PA-O1A
45	LM	501	GTP	PB-O3A-PA-O2A
45	MK	501	GTP	PA-O3A-PB-O2B
45	NI	501	GTP	PA-O3A-PB-O2B
45	OC	501	GTP	PA-O3A-PB-O2B
45	OK	501	GTP	PB-O3A-PA-O1A
45	SC	501	GTP	PA-O3A-PB-O2B
45	SI	501	GTP	PA-O3A-PB-O2B
45	TG	501	GTP	PA-O3A-PB-O1B
43	GD	501	GDP	C3'-C4'-C5'-O5'
43	SF	501	GDP	C3'-C4'-C5'-O5'
43	UD	501	GDP	C3'-C4'-C5'-O5'
45	PG	501	GTP	C3'-C4'-C5'-O5'
45	HM	501	GTP	C4'-C5'-O5'-PA
45	LE	501	GTP	C4'-C5'-O5'-PA
45	OK	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
45	SK	501	GTP	C4'-C5'-O5'-PA
45	TI	501	GTP	C4'-C5'-O5'-PA
45	UK	501	GTP	C4'-C5'-O5'-PA
43	DL	501	GDP	O4'-C4'-C5'-O5'
43	WH	501	GDP	O4'-C4'-C5'-O5'
45	CM	501	GTP	C3'-C4'-C5'-O5'
45	KG	501	GTP	PA-O3A-PB-O3B
43	AD	501	GDP	C5'-O5'-PA-O1A
43	AF	501	GDP	C5'-O5'-PA-O1A
43	AH	501	GDP	C5'-O5'-PA-O1A
43	BB	501	GDP	C5'-O5'-PA-O1A
43	BB	501	GDP	C5'-O5'-PA-O2A
43	BF	501	GDP	C5'-O5'-PA-O1A
43	BL	501	GDP	C5'-O5'-PA-O1A
43	CF	501	GDP	C5'-O5'-PA-O1A
43	CH	501	GDP	C5'-O5'-PA-O1A
43	CJ	501	GDP	C5'-O5'-PA-O1A
43	ED	501	GDP	C5'-O5'-PA-O1A
43	EF	501	GDP	C5'-O5'-PA-O1A
43	EH	501	GDP	C5'-O5'-PA-O1A
43	FH	501	GDP	C5'-O5'-PA-O1A
43	FJ	501	GDP	C5'-O5'-PA-O1A
43	GD	501	GDP	C5'-O5'-PA-O1A
43	GL	501	GDP	C5'-O5'-PA-O1A
43	HJ	501	GDP	C5'-O5'-PA-O1A
43	HL	501	GDP	C5'-O5'-PA-O2A
43	ID	501	GDP	C5'-O5'-PA-O1A
43	IN	501	GDP	C5'-O5'-PA-O1A
43	JJ	501	GDP	C5'-O5'-PA-O3A
43	KD	501	GDP	C5'-O5'-PA-O3A
43	KJ	501	GDP	C5'-O5'-PA-O1A
43	LH	501	GDP	C5'-O5'-PA-O1A
43	LL	501	GDP	C5'-O5'-PA-O1A
43	NB	501	GDP	C5'-O5'-PA-O1A
43	ND	501	GDP	C5'-O5'-PA-O1A
43	NF	501	GDP	C5'-O5'-PA-O1A
43	NH	501	GDP	C5'-O5'-PA-O1A
43	OB	501	GDP	C5'-O5'-PA-O1A
43	OL	501	GDP	C5'-O5'-PA-O1A
43	PD	501	GDP	C5'-O5'-PA-O1A
43	QB	501	GDP	C5'-O5'-PA-O1A
43	RJ	501	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
43	TD	501	GDP	C5'-O5'-PA-O1A
43	TL	501	GDP	C5'-O5'-PA-O3A
43	UL	501	GDP	C5'-O5'-PA-O1A
43	WD	501	GDP	C5'-O5'-PA-O1A
43	WJ	501	GDP	C5'-O5'-PA-O1A
43	WL	501	GDP	C5'-O5'-PA-O3A
45	BG	501	GTP	C5'-O5'-PA-O3A
45	BG	501	GTP	C5'-O5'-PA-O1A
45	CC	501	GTP	C5'-O5'-PA-O3A
45	CC	501	GTP	C5'-O5'-PA-O2A
45	CI	501	GTP	C5'-O5'-PA-O3A
45	CI	501	GTP	C5'-O5'-PA-O2A
45	CK	501	GTP	C5'-O5'-PA-O1A
45	DC	501	GTP	C5'-O5'-PA-O1A
45	DE	501	GTP	C5'-O5'-PA-O1A
45	DM	501	GTP	C5'-O5'-PA-O1A
45	EC	501	GTP	C5'-O5'-PA-O3A
45	EC	501	GTP	C5'-O5'-PA-O1A
45	EC	501	GTP	C5'-O5'-PA-O2A
45	EE	501	GTP	C5'-O5'-PA-O1A
45	EI	501	GTP	C5'-O5'-PA-O1A
45	EM	501	GTP	C5'-O5'-PA-O1A
45	GC	501	GTP	C5'-O5'-PA-O3A
45	GE	501	GTP	C5'-O5'-PA-O1A
45	HC	501	GTP	C5'-O5'-PA-O3A
45	HC	501	GTP	C5'-O5'-PA-O1A
45	HM	501	GTP	C5'-O5'-PA-O2A
45	IC	501	GTP	C5'-O5'-PA-O1A
45	JG	501	GTP	C5'-O5'-PA-O1A
45	KE	501	GTP	C5'-O5'-PA-O1A
45	LK	501	GTP	C5'-O5'-PA-O3A
45	LK	501	GTP	C5'-O5'-PA-O2A
45	MM	501	GTP	C5'-O5'-PA-O3A
45	OE	501	GTP	C5'-O5'-PA-O3A
45	OE	501	GTP	C5'-O5'-PA-O2A
45	OK	501	GTP	C5'-O5'-PA-O1A
45	PC	501	GTP	C5'-O5'-PA-O3A
45	PC	501	GTP	C5'-O5'-PA-O1A
45	PC	501	GTP	C5'-O5'-PA-O2A
45	QC	501	GTP	C5'-O5'-PA-O3A
45	QC	501	GTP	C5'-O5'-PA-O1A
45	QE	501	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
45	QG	501	GTP	C5'-O5'-PA-O3A
45	QG	501	GTP	C5'-O5'-PA-O1A
45	QI	501	GTP	C5'-O5'-PA-O2A
45	QK	501	GTP	C5'-O5'-PA-O2A
45	RC	501	GTP	C5'-O5'-PA-O3A
45	RC	501	GTP	C5'-O5'-PA-O1A
45	RE	501	GTP	C5'-O5'-PA-O2A
45	RG	501	GTP	C5'-O5'-PA-O3A
45	SE	501	GTP	C5'-O5'-PA-O2A
45	SG	501	GTP	C5'-O5'-PA-O2A
45	SI	501	GTP	C5'-O5'-PA-O2A
45	UE	501	GTP	C5'-O5'-PA-O3A
45	WE	501	GTP	C5'-O5'-PA-O1A
45	WK	501	GTP	C5'-O5'-PA-O3A
45	BG	501	GTP	C4'-C5'-O5'-PA
45	CG	501	GTP	C4'-C5'-O5'-PA
45	EC	501	GTP	C4'-C5'-O5'-PA
45	HE	501	GTP	C4'-C5'-O5'-PA
45	IE	501	GTP	C4'-C5'-O5'-PA
45	IK	501	GTP	C4'-C5'-O5'-PA
45	IM	501	GTP	C4'-C5'-O5'-PA
45	JG	501	GTP	C4'-C5'-O5'-PA
45	JK	501	GTP	C4'-C5'-O5'-PA
45	JM	501	GTP	C4'-C5'-O5'-PA
45	KC	501	GTP	C4'-C5'-O5'-PA
45	KI	501	GTP	C4'-C5'-O5'-PA
45	LM	501	GTP	C4'-C5'-O5'-PA
45	ME	501	GTP	C4'-C5'-O5'-PA
45	NC	501	GTP	C4'-C5'-O5'-PA
45	NG	501	GTP	C4'-C5'-O5'-PA
45	OC	501	GTP	C4'-C5'-O5'-PA
45	QE	501	GTP	C4'-C5'-O5'-PA
45	SE	501	GTP	C4'-C5'-O5'-PA
45	SI	501	GTP	C4'-C5'-O5'-PA
45	TG	501	GTP	C4'-C5'-O5'-PA
45	TM	501	GTP	C4'-C5'-O5'-PA
45	UG	501	GTP	C4'-C5'-O5'-PA
45	VI	501	GTP	C4'-C5'-O5'-PA
43	MD	501	GDP	PA-O3A-PB-O1B
45	IE	501	GTP	PB-O3B-PG-O1G
43	HJ	501	GDP	C3'-C4'-C5'-O5'
45	GM	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
45	CC	501	GTP	C4'-C5'-O5'-PA
45	BK	501	GTP	PA-O3A-PB-O2B
45	CC	501	GTP	PB-O3A-PA-O2A
45	CI	501	GTP	PA-O3A-PB-O2B
45	DK	501	GTP	PB-O3A-PA-O1A
45	DK	501	GTP	PB-O3A-PA-O2A
45	FK	501	GTP	PA-O3A-PB-O2B
45	GK	501	GTP	PA-O3A-PB-O2B
45	IM	501	GTP	PA-O3A-PB-O2B
45	ME	501	GTP	PB-O3A-PA-O1A
45	NA	501	GTP	PB-O3A-PA-O2A
45	NC	501	GTP	PA-O3A-PB-O2B
45	NG	501	GTP	PA-O3A-PB-O2B
45	OE	501	GTP	PA-O3A-PB-O2B
45	PC	501	GTP	PG-O3B-PB-O1B
45	PK	501	GTP	PA-O3A-PB-O1B
45	SM	501	GTP	PG-O3B-PB-O1B
45	TE	501	GTP	PA-O3A-PB-O2B
45	TM	501	GTP	PA-O3A-PB-O2B
45	WE	501	GTP	PA-O3A-PB-O1B
45	WK	501	GTP	PG-O3B-PB-O1B
45	DE	501	GTP	C3'-C4'-C5'-O5'
45	AI	501	GTP	C4'-C5'-O5'-PA
45	II	501	GTP	C4'-C5'-O5'-PA
45	KG	501	GTP	C4'-C5'-O5'-PA
45	TE	501	GTP	C4'-C5'-O5'-PA
43	IL	501	GDP	C4'-C5'-O5'-PA
43	PD	501	GDP	C4'-C5'-O5'-PA
45	HI	501	GTP	C4'-C5'-O5'-PA
45	HK	501	GTP	C4'-C5'-O5'-PA
45	LI	501	GTP	C4'-C5'-O5'-PA
45	OA	501	GTP	C4'-C5'-O5'-PA
45	TK	501	GTP	C4'-C5'-O5'-PA
45	VC	501	GTP	C4'-C5'-O5'-PA
43	IF	501	GDP	PA-O3A-PB-O1B
45	DC	501	GTP	PB-O3B-PG-O1G
43	SJ	501	GDP	C3'-C4'-C5'-O5'
45	AC	501	GTP	C3'-C4'-C5'-O5'
45	EI	501	GTP	O4'-C4'-C5'-O5'
45	NE	501	GTP	C3'-C4'-C5'-O5'
45	SI	501	GTP	C3'-C4'-C5'-O5'
45	DE	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
45	EK	501	GTP	C4'-C5'-O5'-PA
45	MC	501	GTP	C4'-C5'-O5'-PA
45	QK	501	GTP	C4'-C5'-O5'-PA
45	WK	501	GTP	C4'-C5'-O5'-PA
43	NL	501	GDP	C3'-C4'-C5'-O5'
43	QJ	501	GDP	C3'-C4'-C5'-O5'
45	AI	501	GTP	O4'-C4'-C5'-O5'
45	AF	502	GTP	PA-O3A-PB-O2B
45	AK	501	GTP	PG-O3B-PB-O1B
45	BC	501	GTP	PA-O3A-PB-O1B
45	BI	501	GTP	PG-O3B-PB-O2B
45	DK	501	GTP	PA-O3A-PB-O1B
45	EG	501	GTP	PB-O3A-PA-O2A
45	EM	501	GTP	PB-O3A-PA-O1A
45	HI	501	GTP	PA-O3A-PB-O2B
45	HM	501	GTP	PB-O3A-PA-O2A
45	IC	501	GTP	PB-O3A-PA-O1A
45	IK	501	GTP	PA-O3A-PB-O1B
45	JE	501	GTP	PA-O3A-PB-O1B
45	KE	501	GTP	PB-O3A-PA-O1A
45	LK	501	GTP	PA-O3A-PB-O2B
45	ME	501	GTP	PB-O3A-PA-O2A
45	MM	501	GTP	PA-O3A-PB-O2B
45	OA	501	GTP	PA-O3A-PB-O2B
45	PC	501	GTP	PB-O3A-PA-O1A
45	PE	501	GTP	PB-O3A-PA-O1A
45	QC	501	GTP	PB-O3A-PA-O1A
43	RD	501	GDP	C4'-C5'-O5'-PA
45	BK	501	GTP	C4'-C5'-O5'-PA
45	EE	501	GTP	C4'-C5'-O5'-PA
45	FI	501	GTP	C4'-C5'-O5'-PA
45	HC	501	GTP	C4'-C5'-O5'-PA
45	PI	501	GTP	C4'-C5'-O5'-PA
45	QC	501	GTP	C4'-C5'-O5'-PA
45	UC	501	GTP	C4'-C5'-O5'-PA
45	VG	501	GTP	C4'-C5'-O5'-PA
45	WE	501	GTP	C4'-C5'-O5'-PA
43	KD	501	GDP	C3'-C4'-C5'-O5'
45	FE	501	GTP	C3'-C4'-C5'-O5'
45	KK	501	GTP	C3'-C4'-C5'-O5'
45	VE	501	GTP	C3'-C4'-C5'-O5'
45	WG	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
43	HH	501	GDP	C4'-C5'-O5'-PA
45	BE	501	GTP	C4'-C5'-O5'-PA
45	LK	501	GTP	C4'-C5'-O5'-PA
45	NA	501	GTP	C4'-C5'-O5'-PA
45	SG	501	GTP	C4'-C5'-O5'-PA
43	NB	501	GDP	O4'-C4'-C5'-O5'
43	UJ	501	GDP	C3'-C4'-C5'-O5'
45	EM	501	GTP	C3'-C4'-C5'-O5'
43	DL	501	GDP	PA-O3A-PB-O1B
43	EL	501	GDP	PA-O3A-PB-O1B
43	OD	501	GDP	PA-O3A-PB-O1B
45	EM	501	GTP	PB-O3B-PG-O1G
45	NK	501	GTP	PB-O3B-PG-O1G
45	PG	501	GTP	PB-O3B-PG-O1G
43	AD	501	GDP	PA-O3A-PB-O2B
43	HF	501	GDP	PA-O3A-PB-O2B
43	HL	501	GDP	PA-O3A-PB-O2B
43	LD	501	GDP	PA-O3A-PB-O2B
43	MF	501	GDP	PA-O3A-PB-O2B
43	OJ	501	GDP	PA-O3A-PB-O2B
43	SJ	501	GDP	PA-O3A-PB-O2B
43	WF	501	GDP	PA-O3A-PB-O2B
45	DC	501	GTP	PB-O3B-PG-O2G
45	DC	501	GTP	PB-O3B-PG-O3G
45	KK	501	GTP	PB-O3B-PG-O2G
45	KM	501	GTP	PB-O3B-PG-O2G
45	LF	502	GTP	PB-O3B-PG-O2G
45	LF	502	GTP	PB-O3B-PG-O3G
45	LM	501	GTP	PB-O3B-PG-O2G
45	NK	501	GTP	PB-O3B-PG-O3G
45	PG	501	GTP	PB-O3B-PG-O2G
45	RI	501	GTP	PB-O3B-PG-O2G
45	VE	501	GTP	PB-O3B-PG-O2G
43	RJ	501	GDP	C4'-C5'-O5'-PA
43	HB	501	GDP	O4'-C4'-C5'-O5'
45	PG	501	GTP	O4'-C4'-C5'-O5'
45	AI	501	GTP	PA-O3A-PB-O3B
45	WK	501	GTP	PA-O3A-PB-O3B
43	GL	501	GDP	C3'-C4'-C5'-O5'
43	KN	501	GDP	C3'-C4'-C5'-O5'
43	UD	501	GDP	O4'-C4'-C5'-O5'
45	AE	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
45	AF	502	GTP	C3'-C4'-C5'-O5'
45	DK	501	GTP	O4'-C4'-C5'-O5'
45	FF	502	GTP	O4'-C4'-C5'-O5'
45	II	501	GTP	C3'-C4'-C5'-O5'
45	IM	501	GTP	C3'-C4'-C5'-O5'
45	SM	501	GTP	O4'-C4'-C5'-O5'
43	MJ	501	GDP	PB-O3A-PA-O2A
45	AC	501	GTP	PA-O3A-PB-O2B
45	AF	502	GTP	PA-O3A-PB-O1B
45	AI	501	GTP	PG-O3B-PB-O2B
45	AI	501	GTP	PA-O3A-PB-O1B
45	AK	501	GTP	PB-O3A-PA-O1A
45	AK	501	GTP	PB-O3A-PA-O2A
45	BI	501	GTP	PG-O3B-PB-O1B
45	CC	501	GTP	PB-O3A-PA-O1A
45	CG	501	GTP	PA-O3A-PB-O2B
45	CI	501	GTP	PA-O3A-PB-O1B
45	DC	501	GTP	PA-O3A-PB-O1B
45	DG	501	GTP	PA-O3A-PB-O1B
45	EG	501	GTP	PG-O3B-PB-O2B
45	FI	501	GTP	PG-O3B-PB-O2B
45	GF	502	GTP	PA-O3A-PB-O1B
45	HC	501	GTP	PB-O3A-PA-O1A
45	HC	501	GTP	PB-O3A-PA-O2A
45	HM	501	GTP	PG-O3B-PB-O2B
45	IG	501	GTP	PA-O3A-PB-O2B
45	II	501	GTP	PB-O3A-PA-O2A
45	JC	501	GTP	PB-O3A-PA-O2A
45	JE	501	GTP	PB-O3A-PA-O2A
45	JK	501	GTP	PA-O3A-PB-O1B
45	KC	501	GTP	PA-O3A-PB-O1B
45	KC	501	GTP	PA-O3A-PB-O2B
45	KG	501	GTP	PA-O3A-PB-O1B
45	KI	501	GTP	PB-O3A-PA-O2A
45	KK	501	GTP	PA-O3A-PB-O2B
45	LI	501	GTP	PG-O3B-PB-O2B
45	LK	501	GTP	PA-O3A-PB-O1B
45	MI	501	GTP	PA-O3A-PB-O2B
45	MM	501	GTP	PA-O3A-PB-O1B
45	NA	501	GTP	PB-O3A-PA-O1A
45	NG	501	GTP	PA-O3A-PB-O1B
45	NI	501	GTP	PA-O3A-PB-O1B

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Mol	Chain	Res	Type	Atoms
45	NK	501	GTP	PG-O3B-PB-O1B
45	NK	501	GTP	PB-O3A-PA-O1A
45	OC	501	GTP	PA-O3A-PB-O1B
45	QE	501	GTP	PB-O3A-PA-O2A
45	QK	501	GTP	PG-O3B-PB-O1B
45	QK	501	GTP	PG-O3B-PB-O2B
45	RC	501	GTP	PA-O3A-PB-O2B
45	RE	501	GTP	PB-O3A-PA-O2A
45	RG	501	GTP	PG-O3B-PB-O1B
45	SC	501	GTP	PA-O3A-PB-O1B
45	UC	501	GTP	PG-O3B-PB-O2B
45	UC	501	GTP	PB-O3A-PA-O1A
45	UG	501	GTP	PA-O3A-PB-O2B
45	UI	501	GTP	PA-O3A-PB-O2B
45	UK	501	GTP	PG-O3B-PB-O2B
45	UK	501	GTP	PA-O3A-PB-O1B
45	UK	501	GTP	PA-O3A-PB-O2B
45	VI	501	GTP	PG-O3B-PB-O1B
45	WG	501	GTP	PA-O3A-PB-O2B
45	WK	501	GTP	PA-O3A-PB-O2B
45	CC	501	GTP	C3'-C4'-C5'-O5'
45	VE	501	GTP	C4'-C5'-O5'-PA
43	DB	501	GDP	PA-O3A-PB-O1B
43	HD	501	GDP	PA-O3A-PB-O1B
43	KF	501	GDP	PA-O3A-PB-O1B
43	LJ	501	GDP	PA-O3A-PB-O1B
43	WH	501	GDP	PA-O3A-PB-O1B
43	GD	501	GDP	O4'-C4'-C5'-O5'
43	WL	501	GDP	C3'-C4'-C5'-O5'
45	NI	501	GTP	C3'-C4'-C5'-O5'
45	VE	501	GTP	O4'-C4'-C5'-O5'
45	AK	501	GTP	C4'-C5'-O5'-PA
45	LF	502	GTP	C4'-C5'-O5'-PA
45	FC	501	GTP	O4'-C4'-C5'-O5'
43	GF	501	GDP	PB-O3A-PA-O1A
45	AK	501	GTP	PG-O3B-PB-O2B
45	BE	501	GTP	PG-O3B-PB-O2B
45	BG	501	GTP	PA-O3A-PB-O1B
45	BK	501	GTP	PA-O3A-PB-O1B
45	DK	501	GTP	PG-O3B-PB-O2B
45	EC	501	GTP	PB-O3A-PA-O2A
45	EK	501	GTP	PB-O3A-PA-O2A

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Mol	Chain	Res	Type	Atoms
45	EM	501	GTP	PB-O3A-PA-O2A
45	FF	502	GTP	PG-O3B-PB-O2B
45	FK	501	GTP	PB-O3A-PA-O2A
45	GK	501	GTP	PA-O3A-PB-O1B
45	HK	501	GTP	PB-O3A-PA-O2A
45	IC	501	GTP	PG-O3B-PB-O2B
45	IM	501	GTP	PG-O3B-PB-O2B
45	IM	501	GTP	PA-O3A-PB-O1B
45	JE	501	GTP	PB-O3A-PA-O1A
45	JK	501	GTP	PG-O3B-PB-O2B
45	JK	501	GTP	PA-O3A-PB-O2B
45	KE	501	GTP	PB-O3A-PA-O2A
45	KI	501	GTP	PB-O3A-PA-O1A
45	LC	501	GTP	PB-O3A-PA-O2A
45	LK	501	GTP	PG-O3B-PB-O2B
45	MG	501	GTP	PG-O3B-PB-O2B
45	NK	501	GTP	PG-O3B-PB-O2B
45	NK	501	GTP	PB-O3A-PA-O2A
45	OA	501	GTP	PG-O3B-PB-O2B
45	OA	501	GTP	PA-O3A-PB-O1B
45	OK	501	GTP	PB-O3A-PA-O2A
45	PA	501	GTP	PG-O3B-PB-O2B
45	PC	501	GTP	PB-O3A-PA-O2A
45	QC	501	GTP	PB-O3A-PA-O2A
45	QI	501	GTP	PB-O3A-PA-O2A
45	RC	501	GTP	PA-O3A-PB-O1B
45	RE	501	GTP	PB-O3A-PA-O1A
45	TE	501	GTP	PA-O3A-PB-O1B
45	TE	501	GTP	PB-O3A-PA-O2A
45	UC	501	GTP	PB-O3A-PA-O2A
45	UM	501	GTP	PG-O3B-PB-O2B
45	VC	501	GTP	PA-O3A-PB-O2B
45	VI	501	GTP	PG-O3B-PB-O2B
45	WK	501	GTP	PG-O3B-PB-O2B
45	WM	501	GTP	PA-O3A-PB-O2B
43	JH	501	GDP	C3'-C4'-C5'-O5'
43	OF	501	GDP	C3'-C4'-C5'-O5'
45	HM	501	GTP	C3'-C4'-C5'-O5'
45	LK	501	GTP	C3'-C4'-C5'-O5'
45	NG	501	GTP	C3'-C4'-C5'-O5'
45	QG	501	GTP	O4'-C4'-C5'-O5'

There are no ring outliers.

178 monomers are involved in 336 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
43	LD	501	GDP	1	0
43	JL	501	GDP	1	0
45	IK	501	GTP	1	0
45	AE	501	GTP	2	0
45	BC	501	GTP	1	0
45	NE	501	GTP	1	0
43	LN	501	GDP	2	0
43	EH	501	GDP	3	0
43	RB	501	GDP	2	0
45	PE	501	GTP	3	0
45	PA	501	GTP	3	0
43	BF	501	GDP	1	0
45	GE	501	GTP	3	0
45	LF	502	GTP	1	0
45	TE	501	GTP	3	0
43	DJ	501	GDP	1	0
43	HH	501	GDP	4	0
43	PB	501	GDP	1	0
45	FE	501	GTP	1	0
45	CE	501	GTP	4	0
45	VC	501	GTP	1	0
45	WG	501	GTP	1	0
43	JD	501	GDP	1	0
43	SJ	501	GDP	1	0
45	DK	501	GTP	1	0
43	LH	501	GDP	1	0
43	VD	501	GDP	1	0
43	FD	501	GDP	3	0
43	OJ	501	GDP	1	0
43	BJ	501	GDP	1	0
43	KN	501	GDP	1	0
45	CG	501	GTP	4	0
43	JF	501	GDP	2	0
43	QJ	501	GDP	2	0
45	KG	501	GTP	1	0
45	JM	501	GTP	3	0
45	GM	501	GTP	3	0
45	AC	501	GTP	2	0
45	VM	501	GTP	4	0
43	AJ	501	GDP	1	0
43	TH	501	GDP	1	0
45	NI	501	GTP	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
43	OH	501	GDP	1	0
45	QC	501	GTP	1	0
45	LE	501	GTP	3	0
43	QB	501	GDP	3	0
45	VI	501	GTP	1	0
45	AI	501	GTP	1	0
43	MH	501	GDP	1	0
45	PI	501	GTP	3	0
45	WM	501	GTP	2	0
43	RJ	501	GDP	2	0
45	UI	501	GTP	1	0
45	PG	501	GTP	4	0
45	EK	501	GTP	2	0
45	VE	501	GTP	1	0
43	CF	501	GDP	3	0
45	IE	501	GTP	2	0
43	WF	501	GDP	2	0
45	FI	501	GTP	2	0
45	SE	501	GTP	3	0
45	BK	501	GTP	2	0
45	MI	501	GTP	2	0
45	OA	501	GTP	2	0
43	FF	501	GDP	2	0
43	HD	501	GDP	2	0
45	RI	501	GTP	2	0
43	ED	501	GDP	2	0
45	JG	501	GTP	1	0
45	KE	501	GTP	1	0
43	RF	501	GDP	1	0
45	EG	501	GTP	6	0
43	AF	501	GDP	1	0
43	DH	501	GDP	3	0
45	WE	501	GTP	2	0
45	QI	501	GTP	1	0
43	VL	501	GDP	1	0
45	HC	501	GTP	3	0
45	PK	501	GTP	5	0
45	AF	502	GTP	3	0
45	NC	501	GTP	3	0
45	UE	501	GTP	1	0
43	NJ	501	GDP	1	0
43	JH	501	GDP	3	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
43	TD	501	GDP	1	0
45	TM	501	GTP	2	0
45	WK	501	GTP	3	0
43	IH	501	GDP	2	0
43	QL	501	GDP	2	0
45	RK	501	GTP	2	0
45	EE	501	GTP	1	0
43	FH	501	GDP	3	0
45	HK	501	GTP	2	0
45	PC	501	GTP	1	0
45	OI	501	GTP	2	0
45	FC	501	GTP	2	0
45	GK	501	GTP	2	0
43	MN	501	GDP	1	0
45	UM	501	GTP	1	0
45	BI	501	GTP	1	0
43	EF	501	GDP	2	0
43	PL	501	GDP	1	0
43	UJ	501	GDP	3	0
45	CI	501	GTP	4	0
45	QK	501	GTP	2	0
45	NK	501	GTP	2	0
43	IJ	501	GDP	2	0
43	WD	501	GDP	2	0
43	DD	501	GDP	2	0
45	JK	501	GTP	3	0
43	GJ	501	GDP	1	0
45	HI	501	GTP	1	0
45	JI	501	GTP	1	0
43	VH	501	GDP	1	0
43	HB	501	GDP	1	0
45	ME	501	GTP	1	0
45	OC	501	GTP	1	0
43	UL	501	GDP	1	0
45	FK	501	GTP	5	0
43	WJ	501	GDP	1	0
43	QH	501	GDP	1	0
43	MD	501	GDP	2	0
43	WN	501	GDP	2	0
45	QG	501	GTP	2	0
43	IL	501	GDP	2	0
43	DF	501	GDP	1	0

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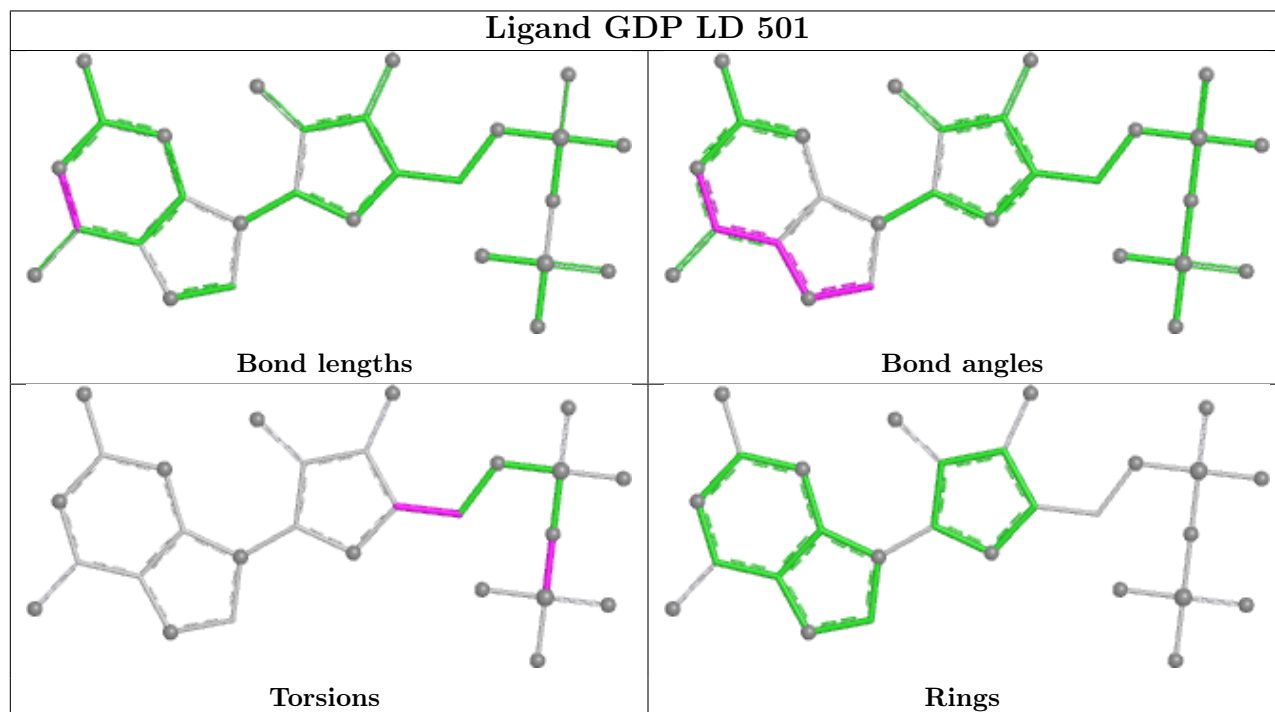
Mol	Chain	Res	Type	Clashes	Symm-Clashes
45	EC	501	GTP	1	0
43	GL	501	GDP	2	0
45	SI	501	GTP	2	0
43	CJ	501	GDP	1	0
43	LF	501	GDP	1	0
43	GF	501	GDP	3	0
43	KG	503	GDP	1	0
43	PH	501	GDP	2	0
45	JE	501	GTP	2	0
45	EI	501	GTP	2	0
43	NL	501	GDP	1	0
43	ML	501	GDP	2	0
45	DC	501	GTP	4	0
43	IF	501	GDP	3	0
43	CB	501	GDP	2	0
45	GC	501	GTP	3	0
45	HG	501	GTP	2	0
43	DL	501	GDP	1	0
45	LI	501	GTP	1	0
43	LL	501	GDP	2	0
45	SM	501	GTP	3	0
43	QF	501	GDP	1	0
45	OE	501	GTP	2	0
45	UC	501	GTP	4	0
45	CM	501	GTP	4	0
45	NA	501	GTP	2	0
45	RG	501	GTP	3	0
45	DI	501	GTP	2	0
45	OK	501	GTP	1	0
45	KC	501	GTP	1	0
43	SF	501	GDP	2	0
45	MC	501	GTP	1	0
43	KD	501	GDP	1	0
43	RD	501	GDP	1	0
45	HE	501	GTP	1	0
45	KK	501	GTP	1	0
45	FM	501	GTP	1	0
45	TG	501	GTP	2	0
43	OD	501	GDP	1	0
45	CK	501	GTP	2	0
43	ID	501	GDP	3	0
45	UK	501	GTP	1	0

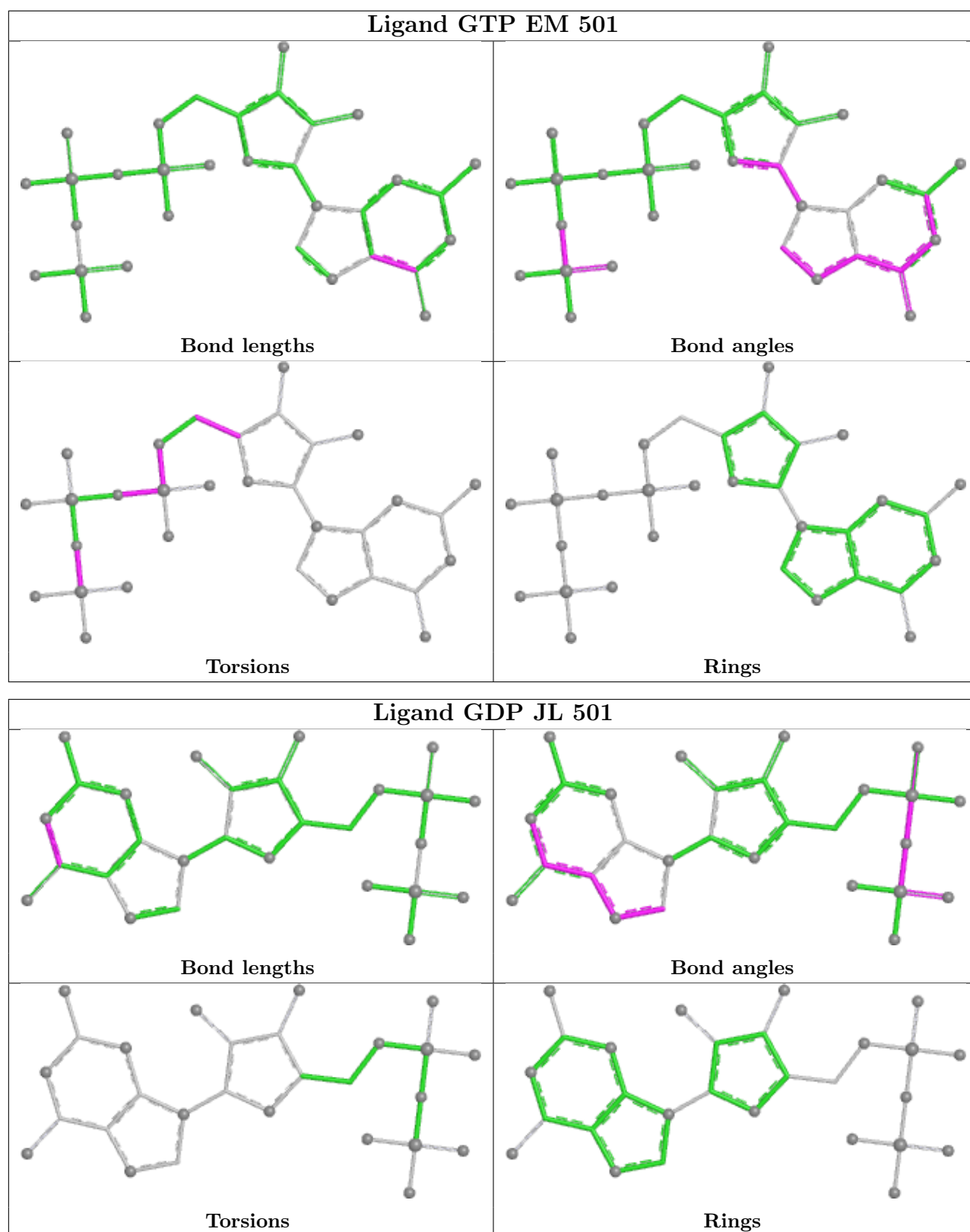
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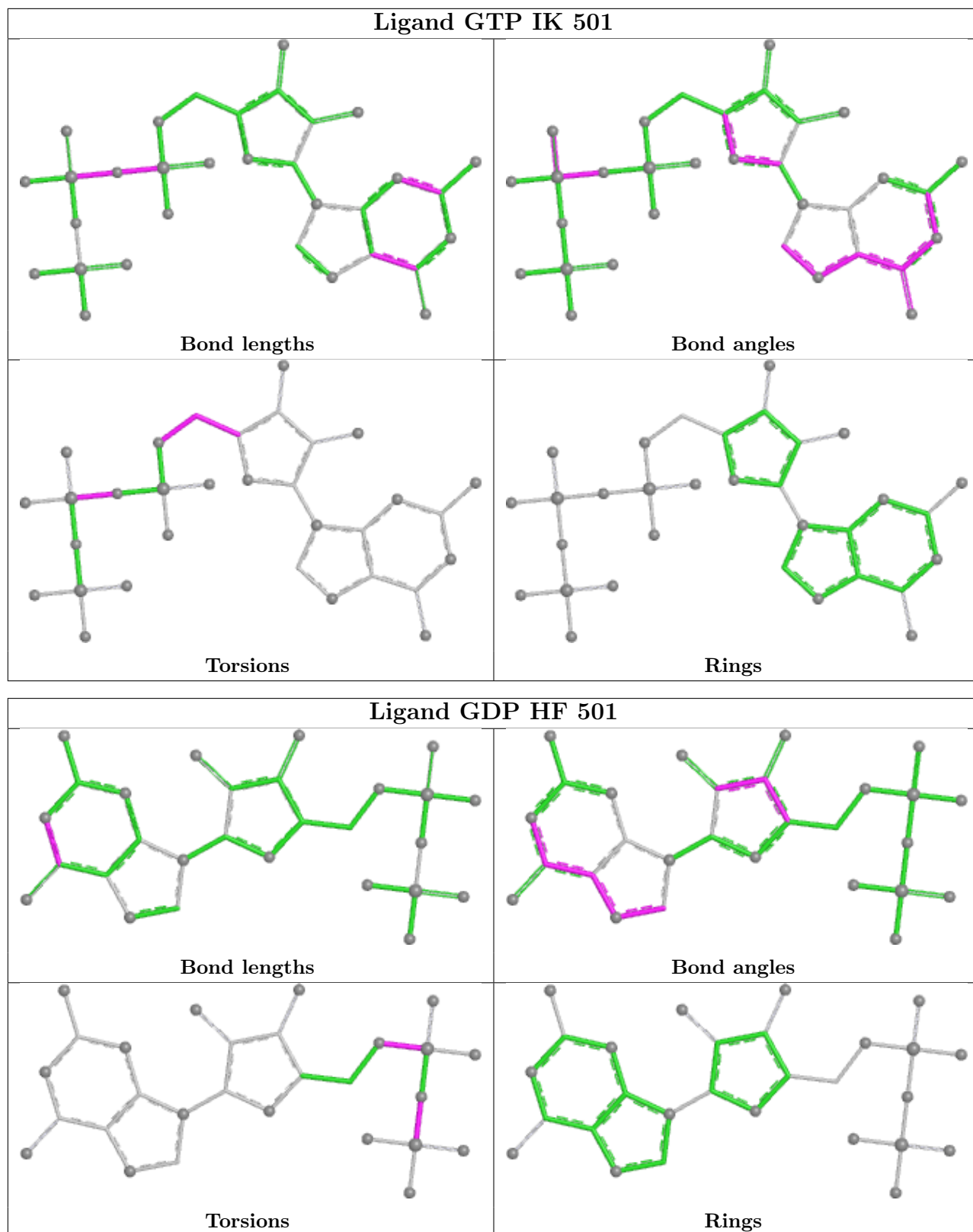
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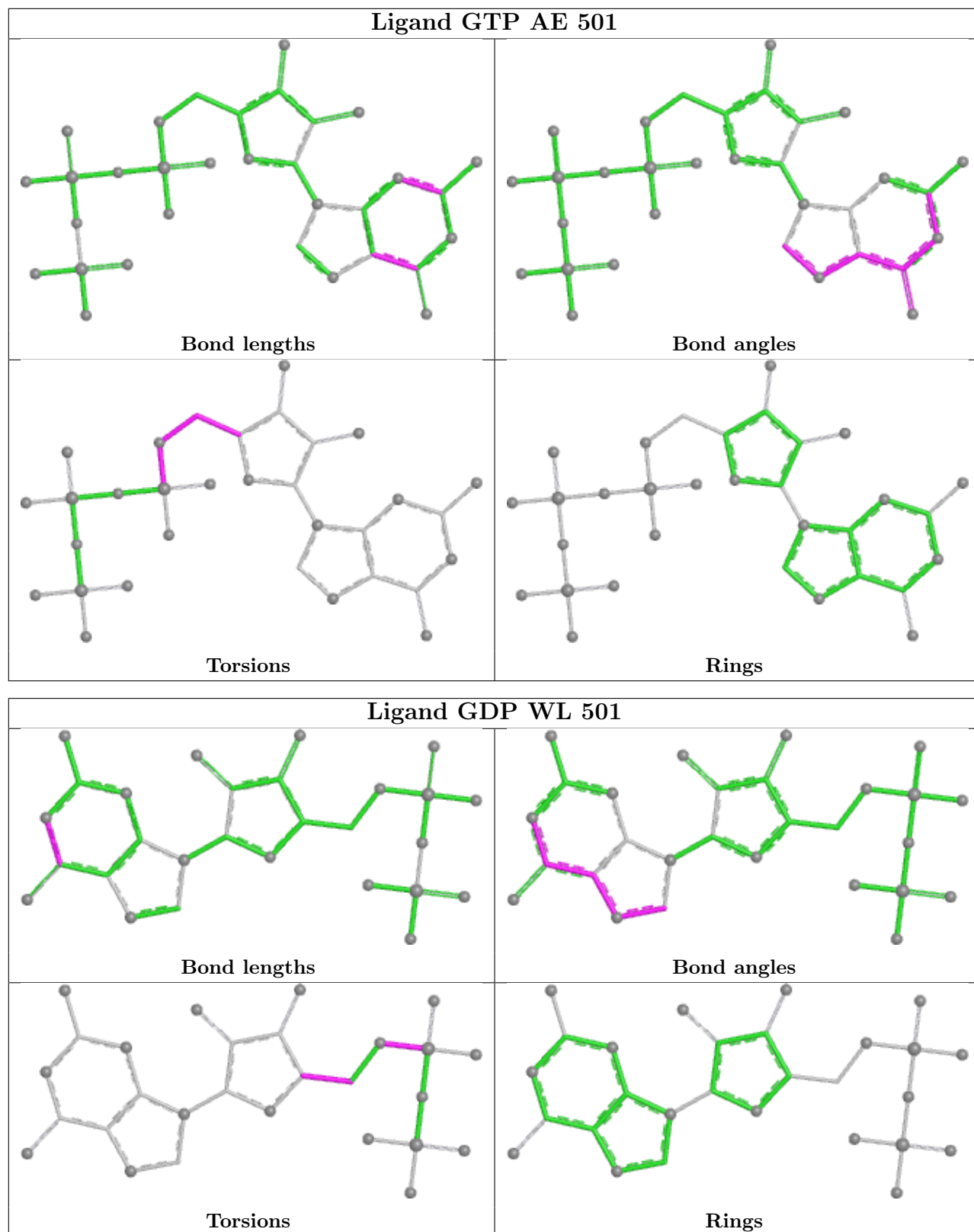
Mol	Chain	Res	Type	Clashes	Symm-Clashes
43	SL	501	GDP	3	0
45	FF	502	GTP	1	0
45	DE	501	GTP	2	0
43	PJ	501	GDP	2	0
43	TJ	501	GDP	1	0
45	MM	501	GTP	4	0
45	BG	501	GTP	2	0
45	WC	501	GTP	2	0
43	EJ	501	GDP	1	0
45	TI	501	GTP	1	0

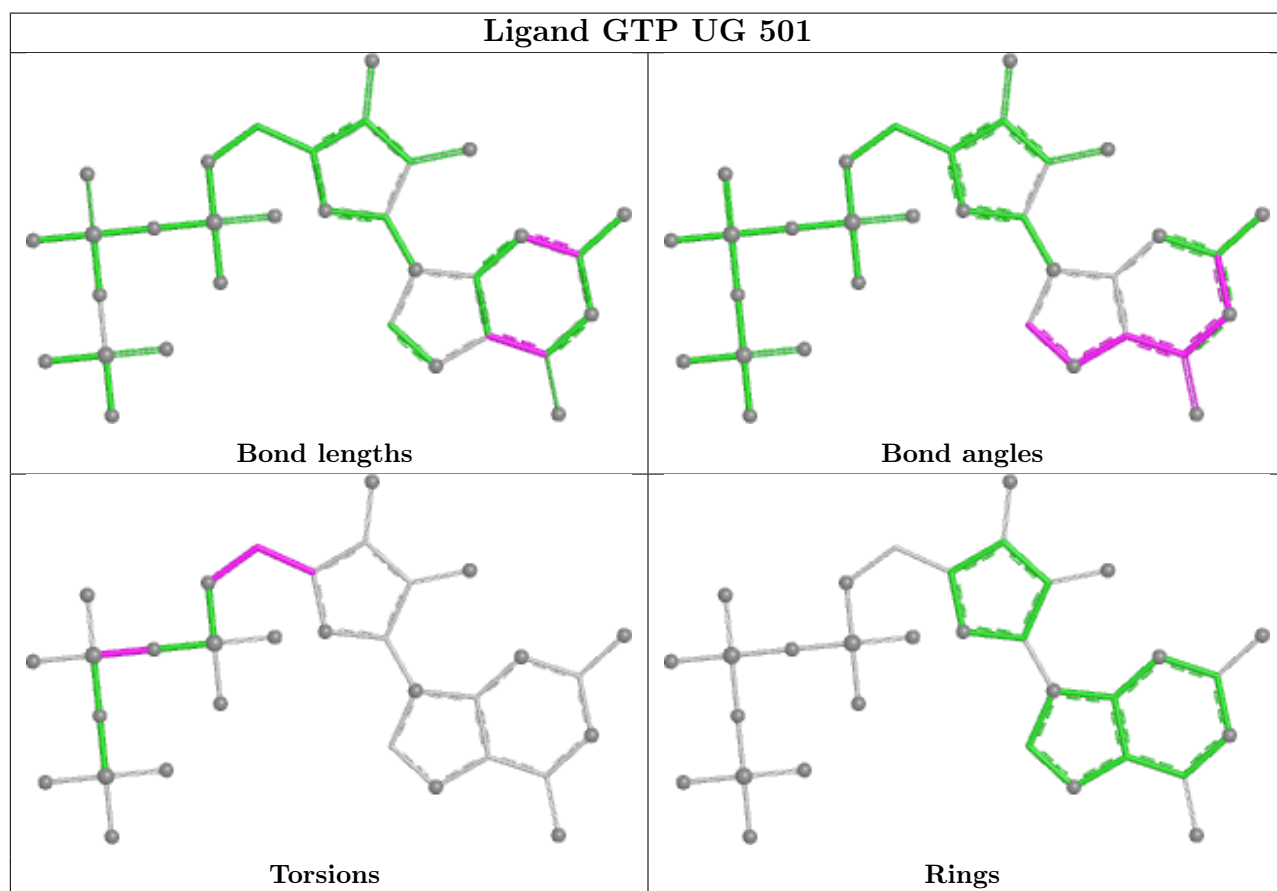
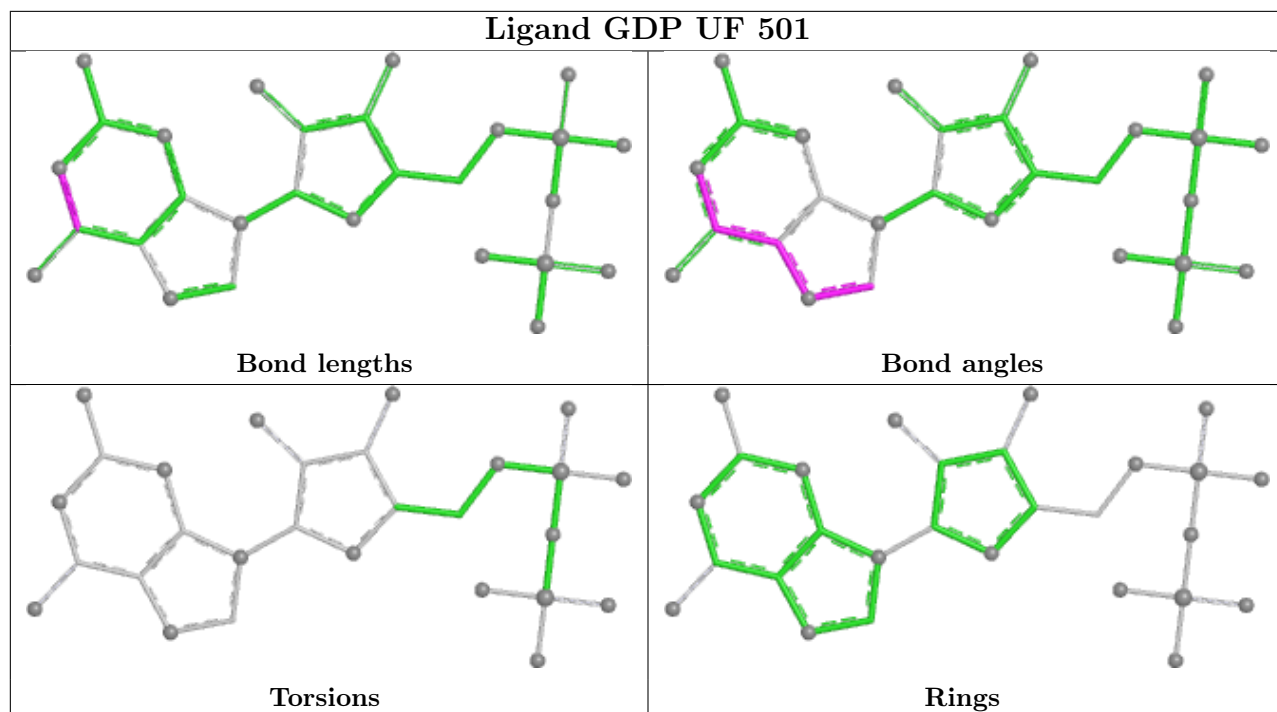
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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

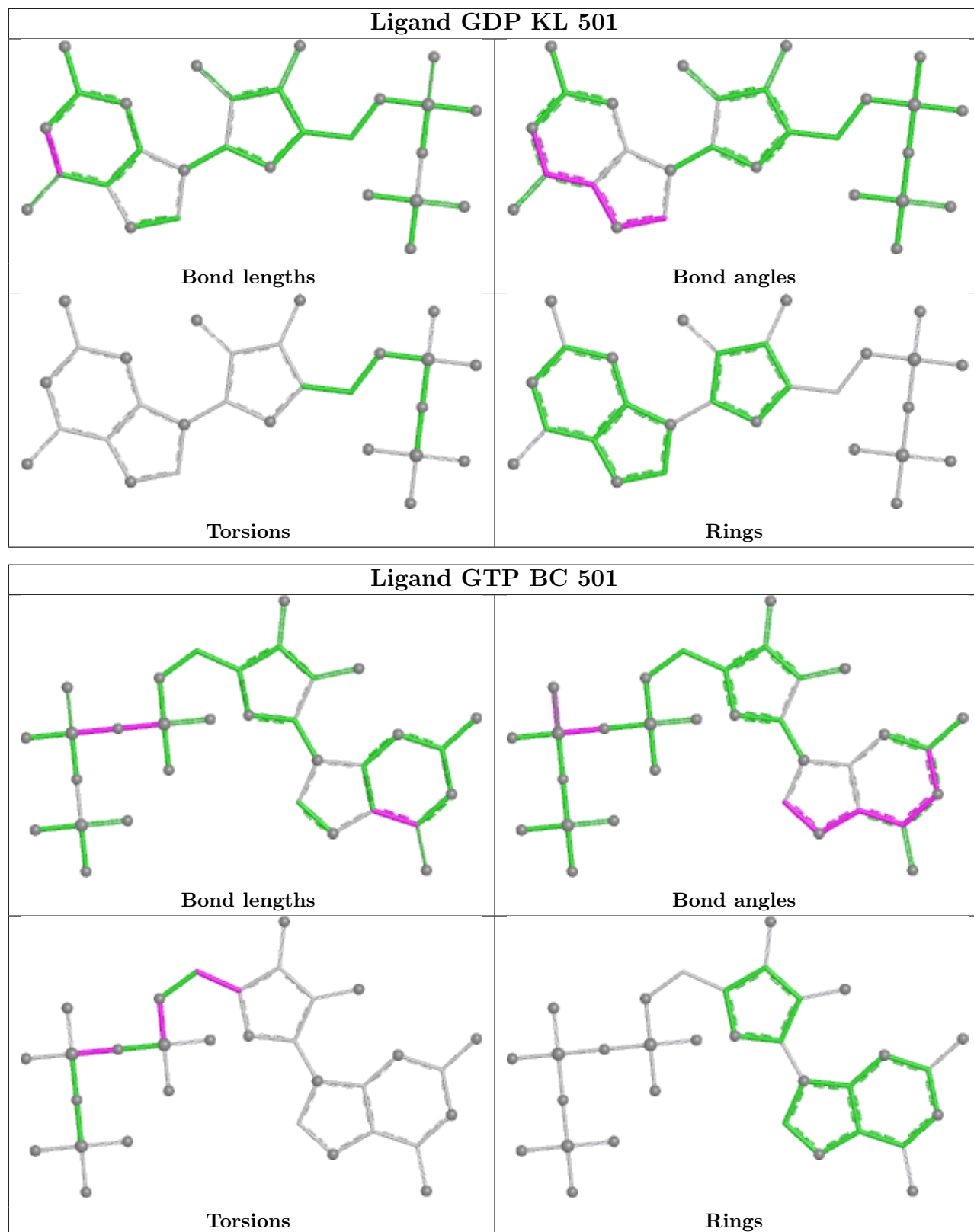


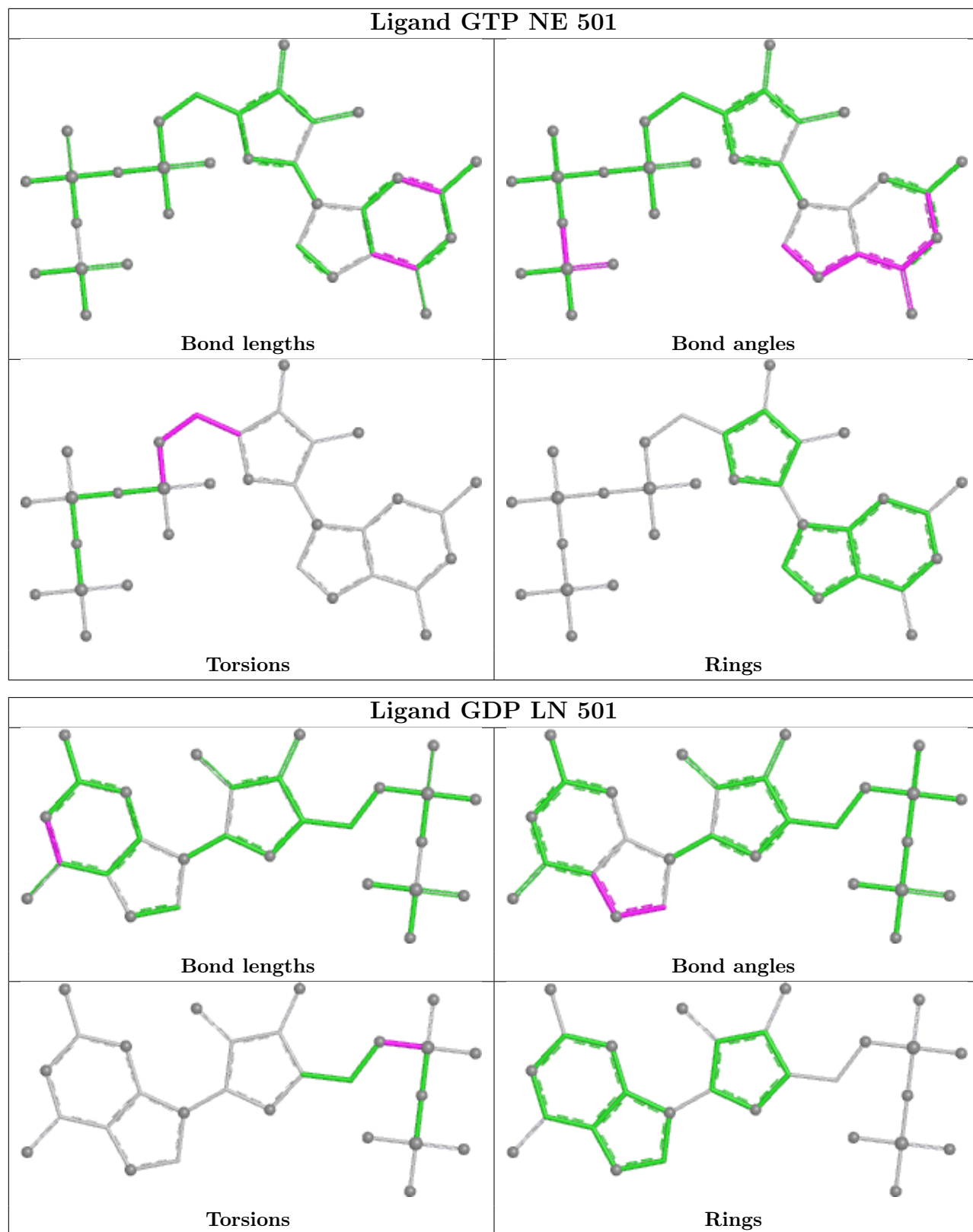


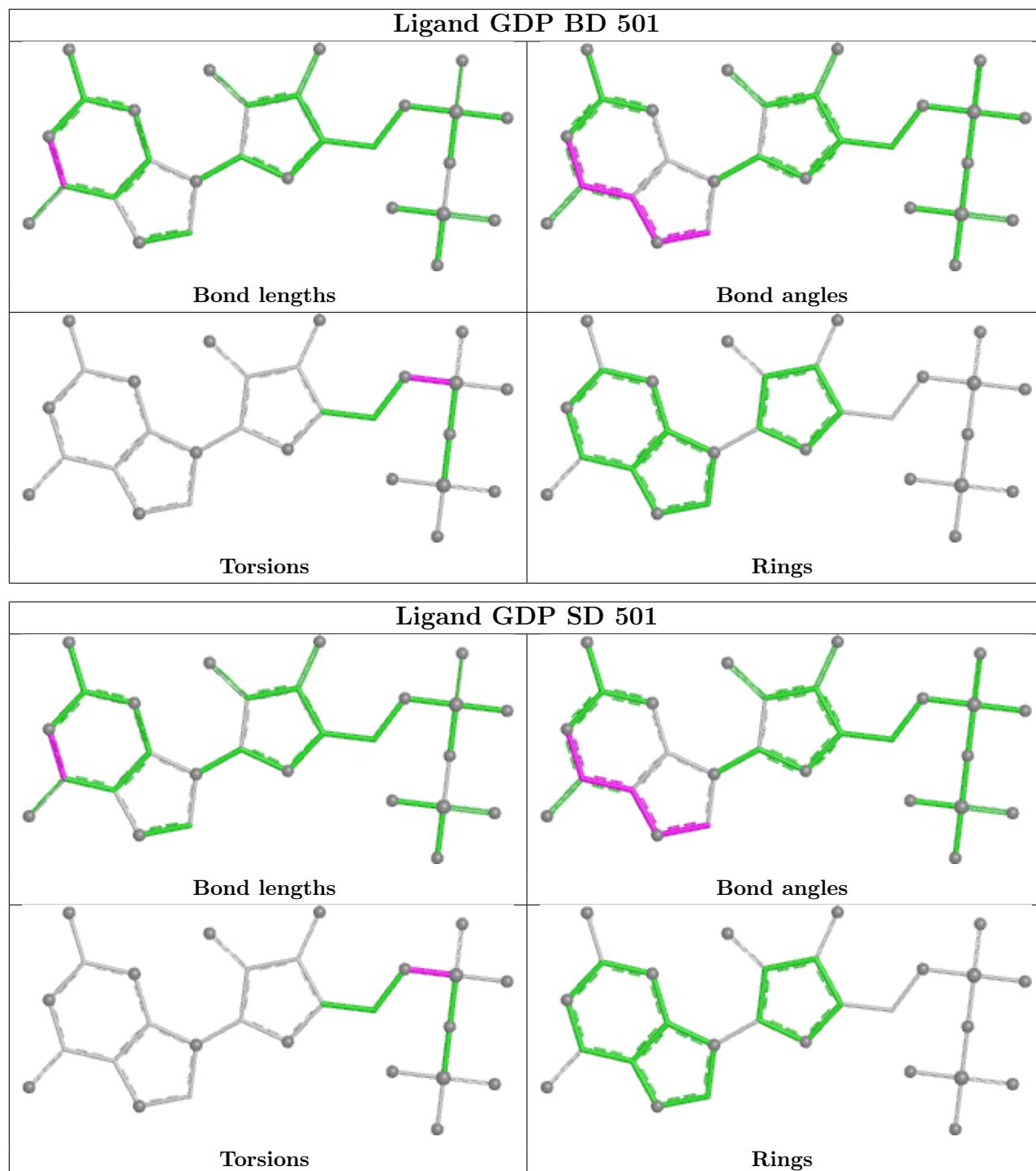


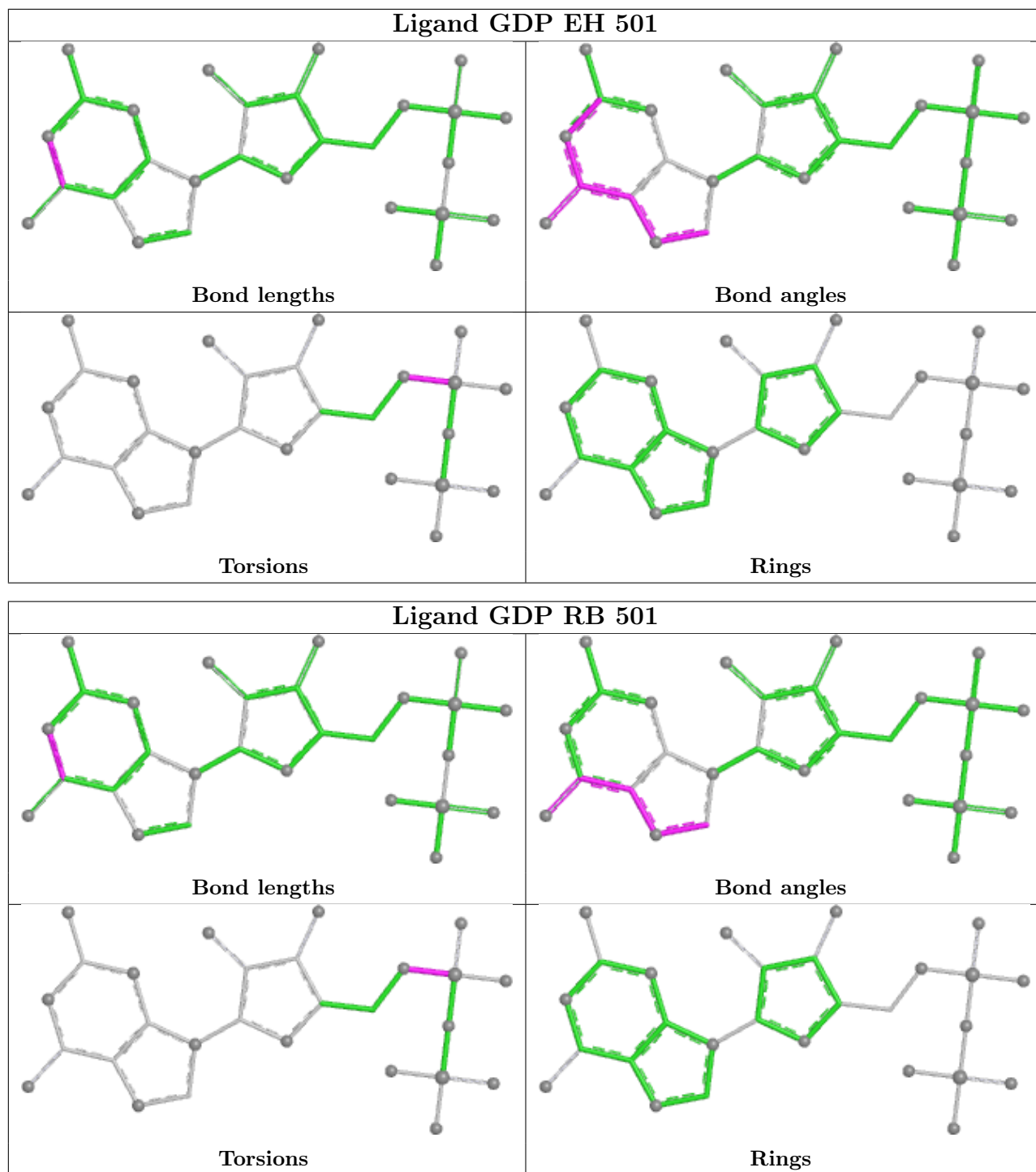


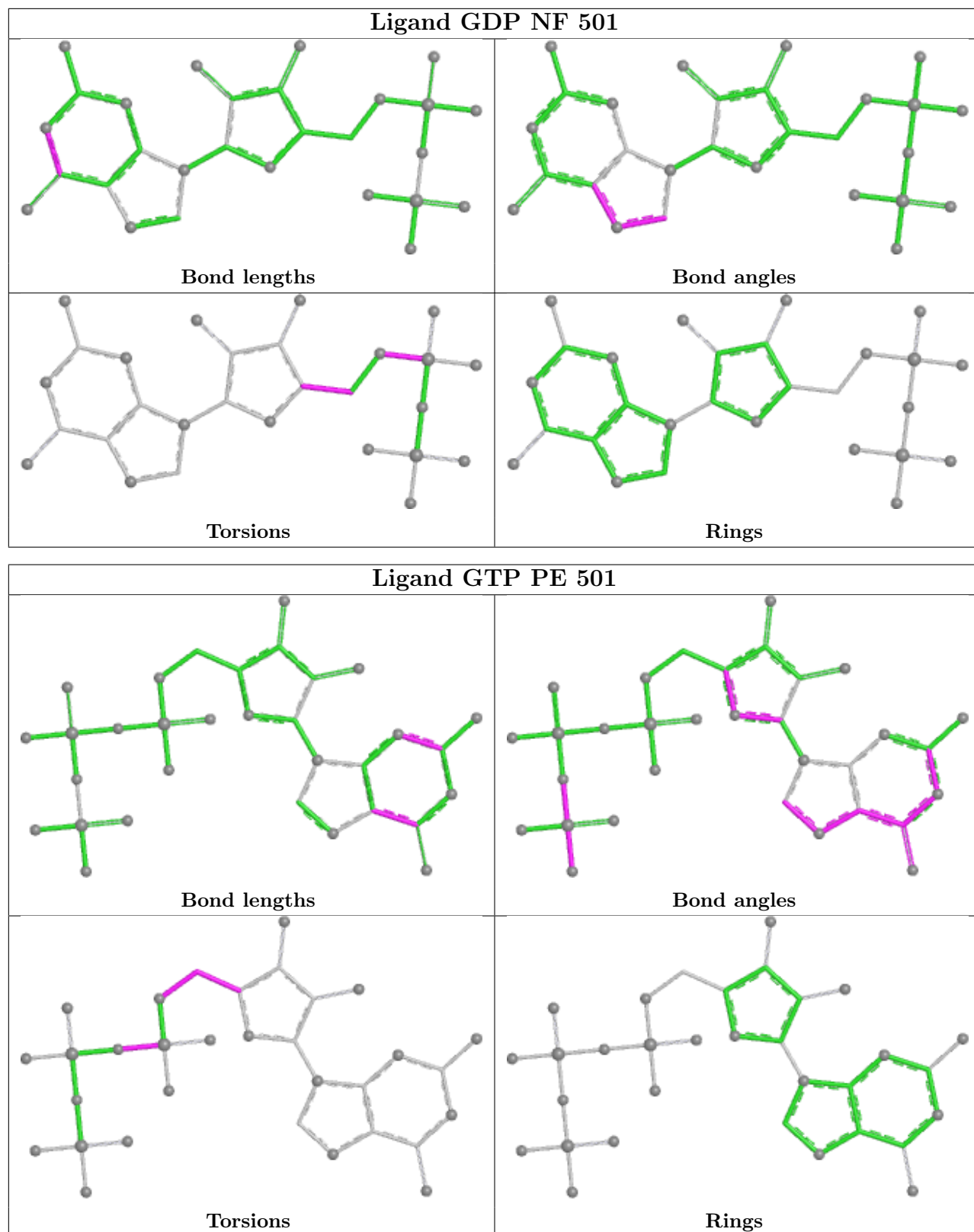


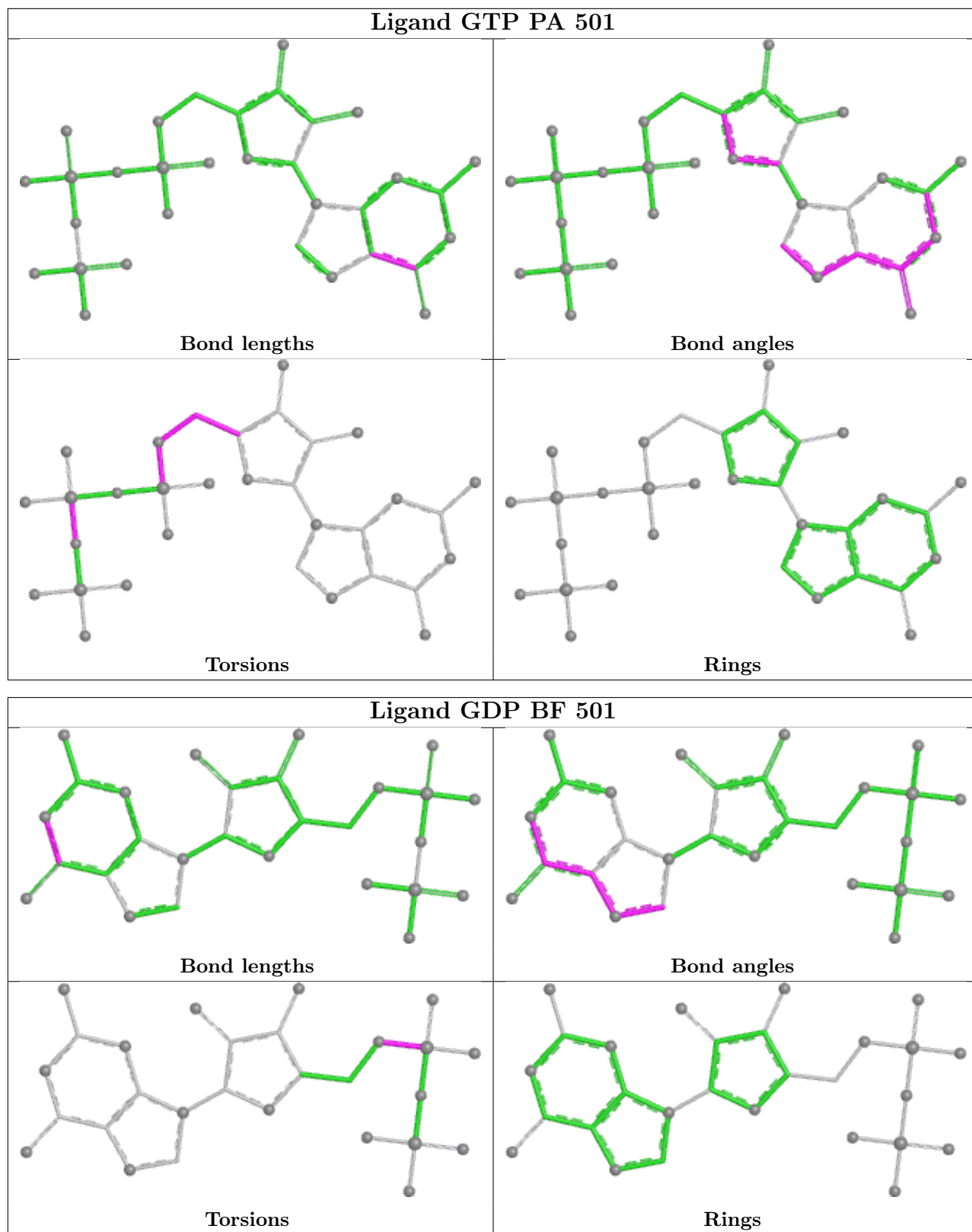


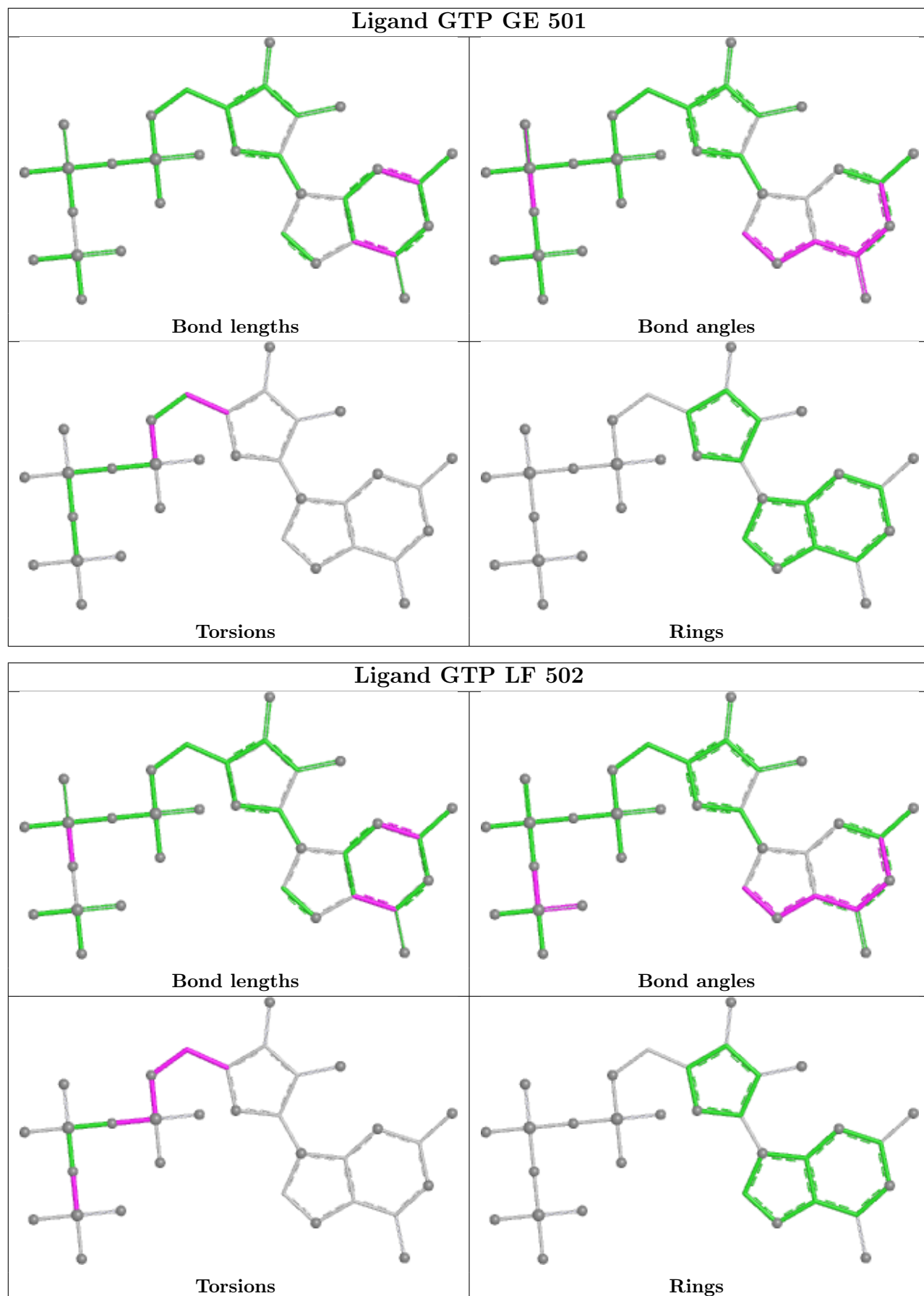


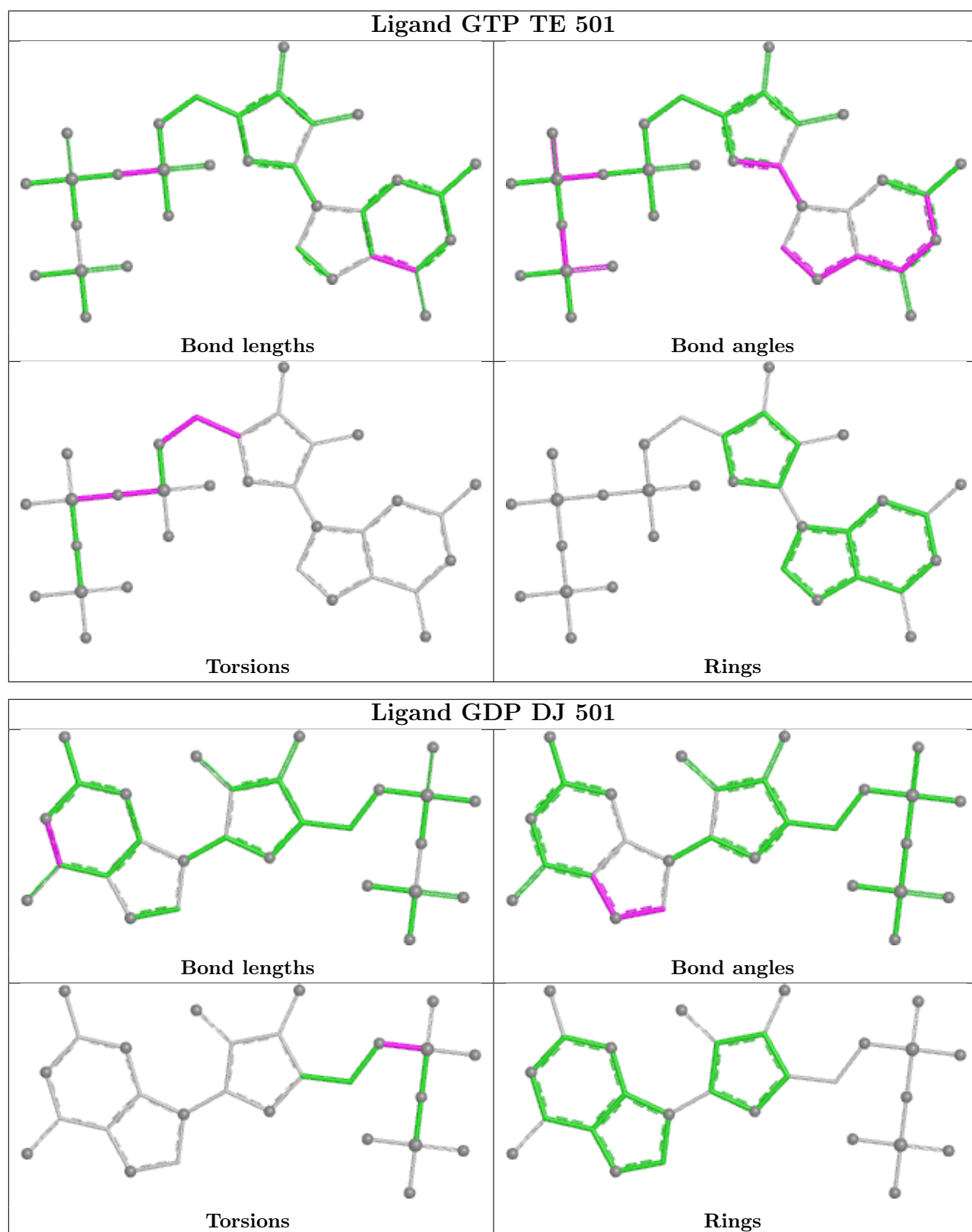


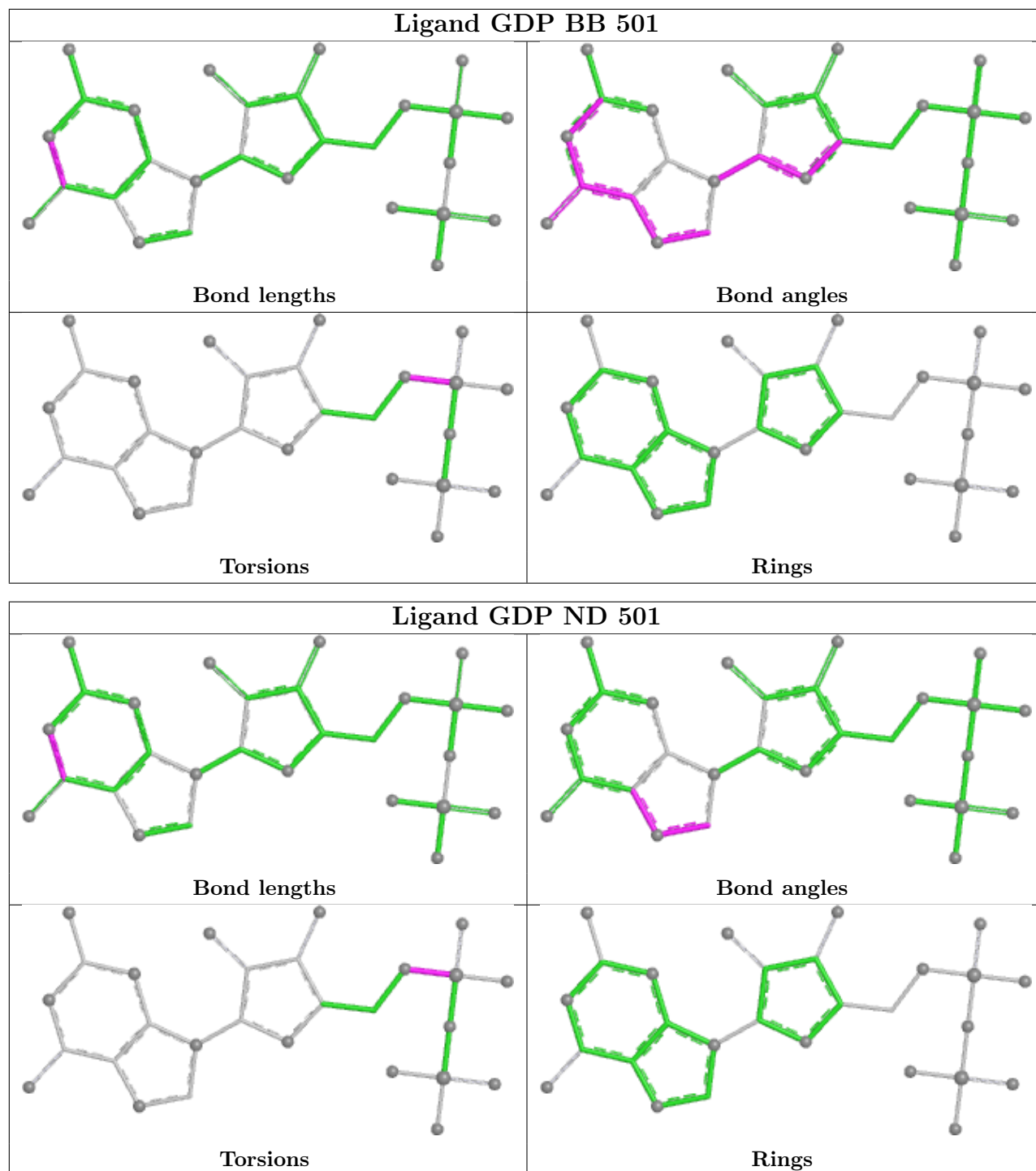


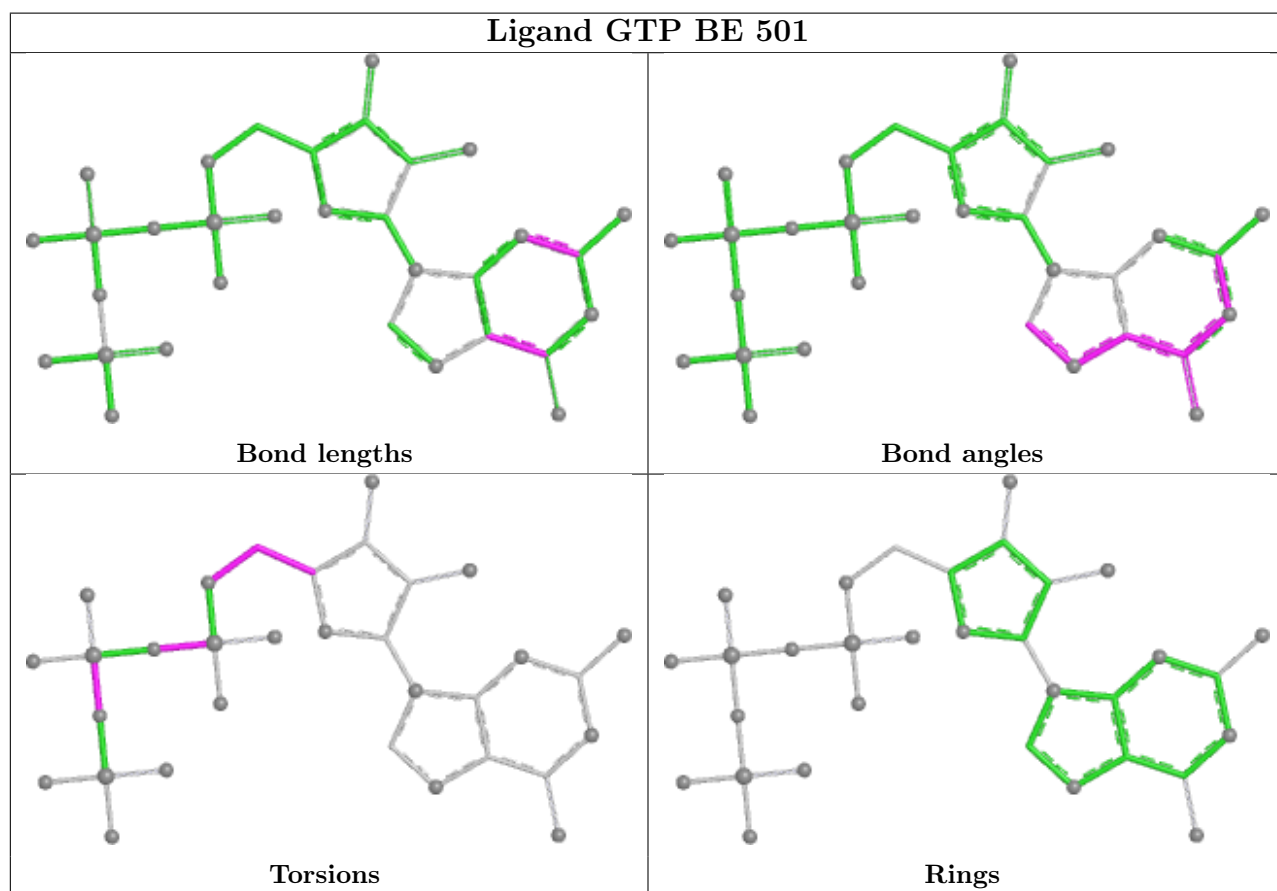
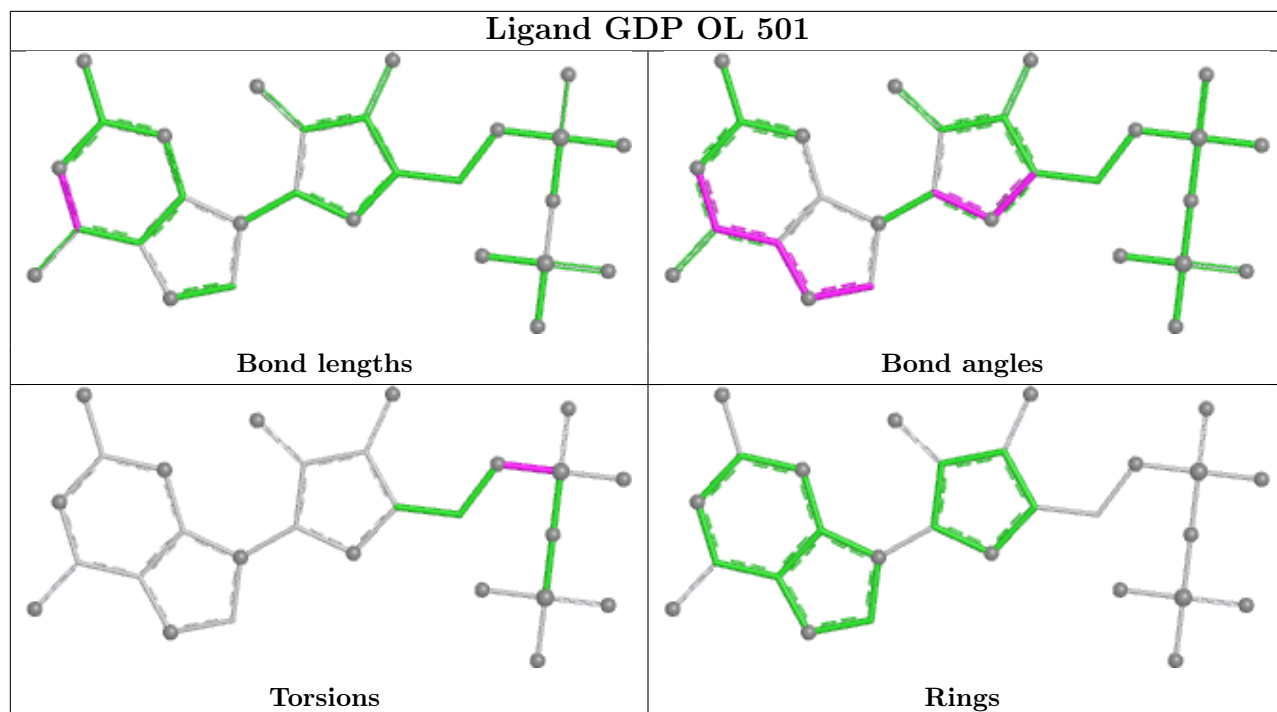


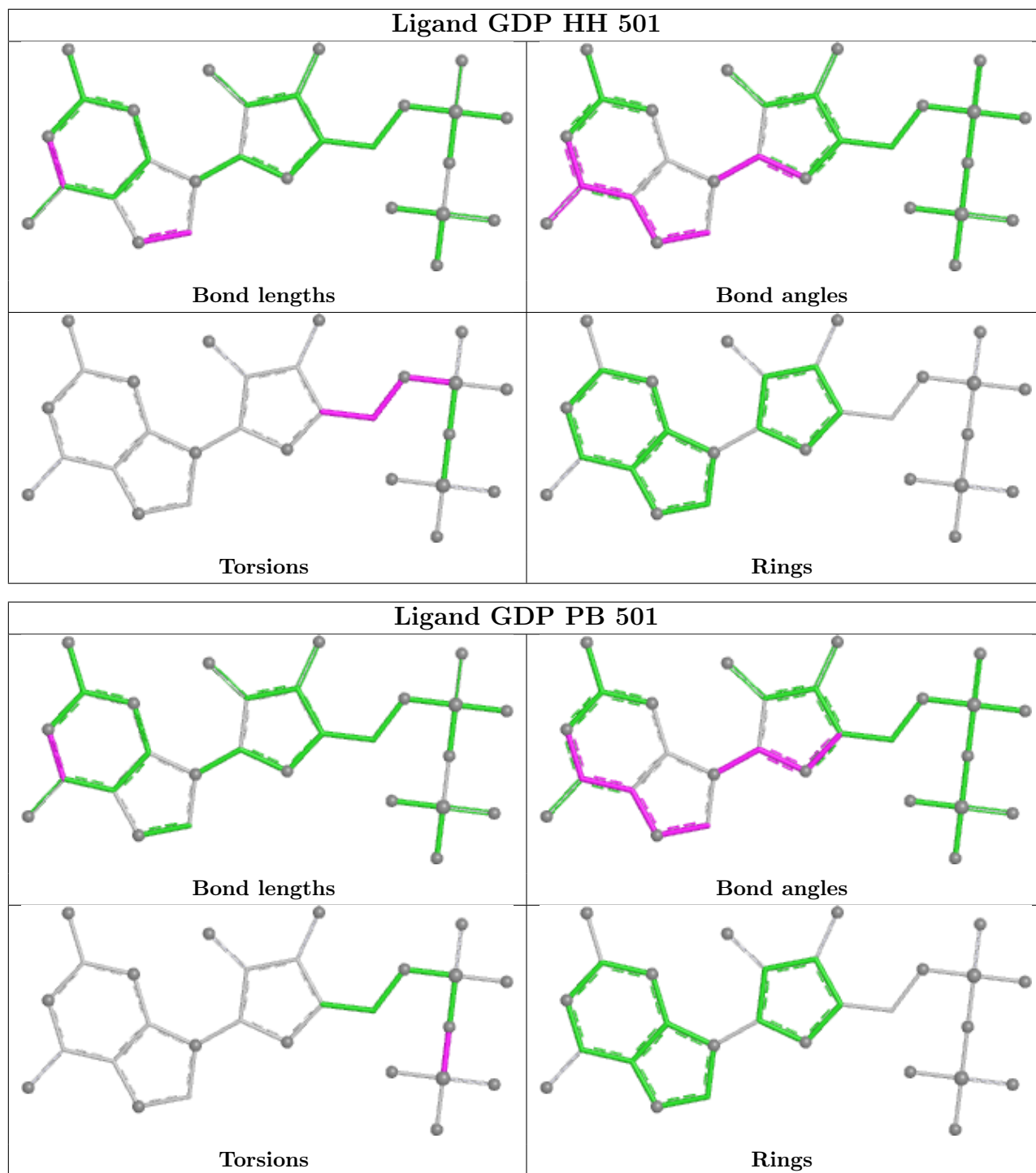


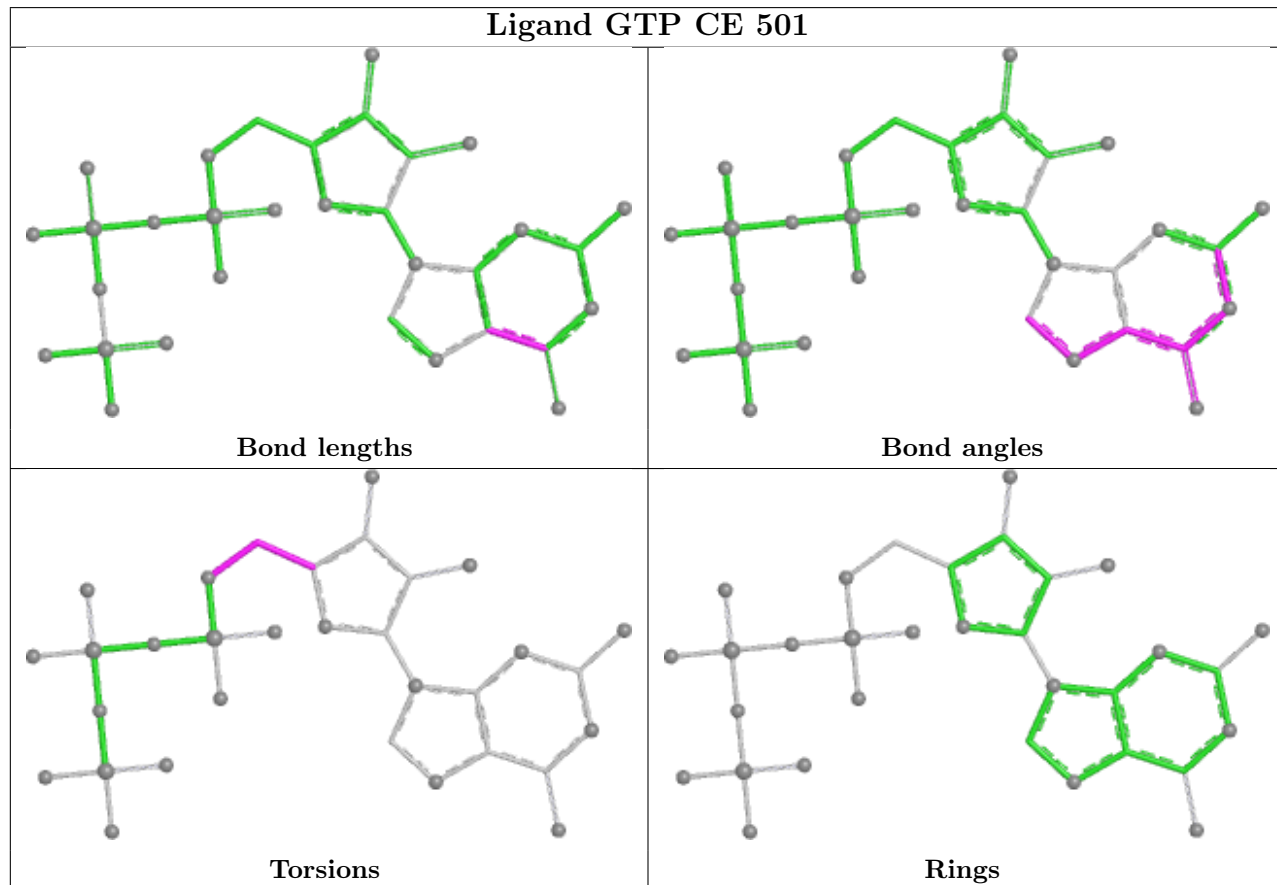
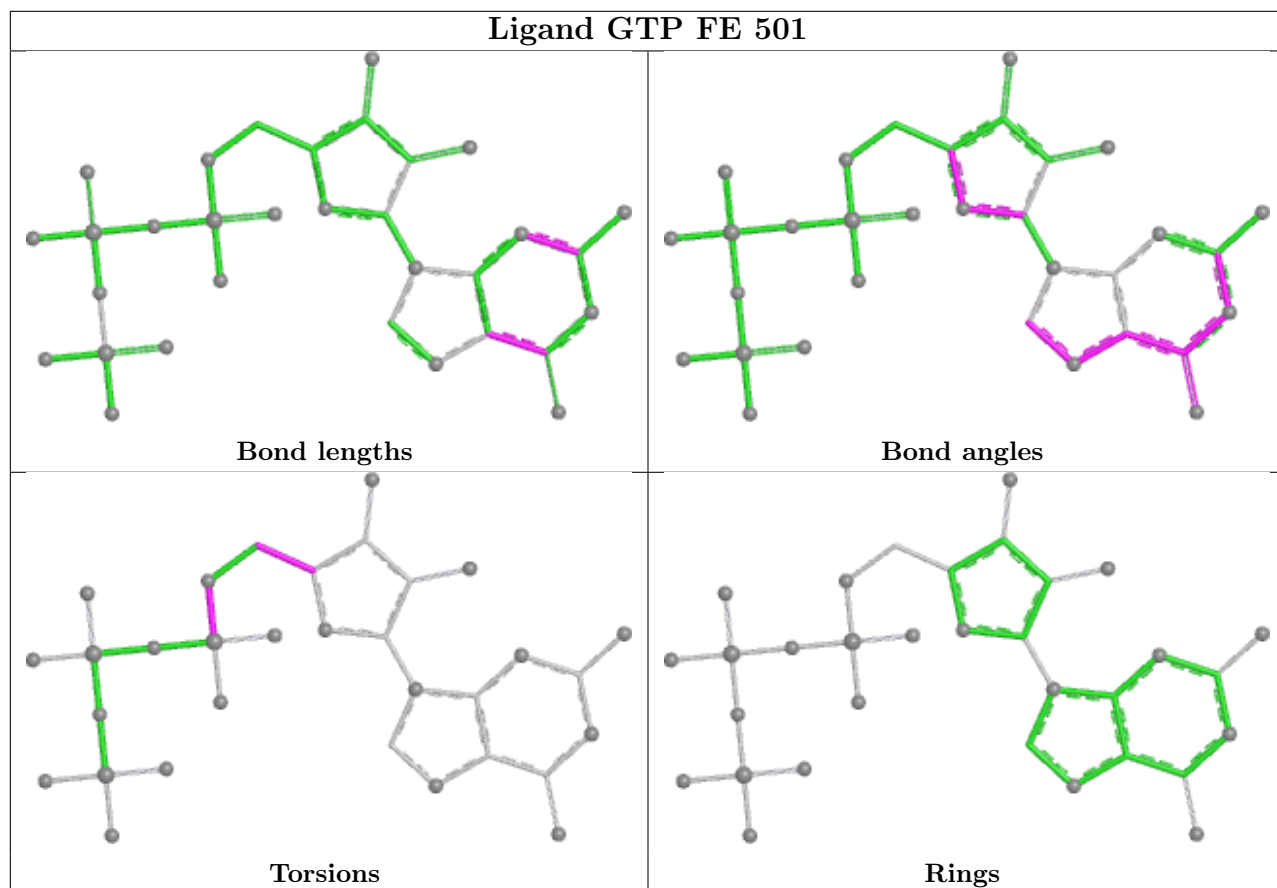


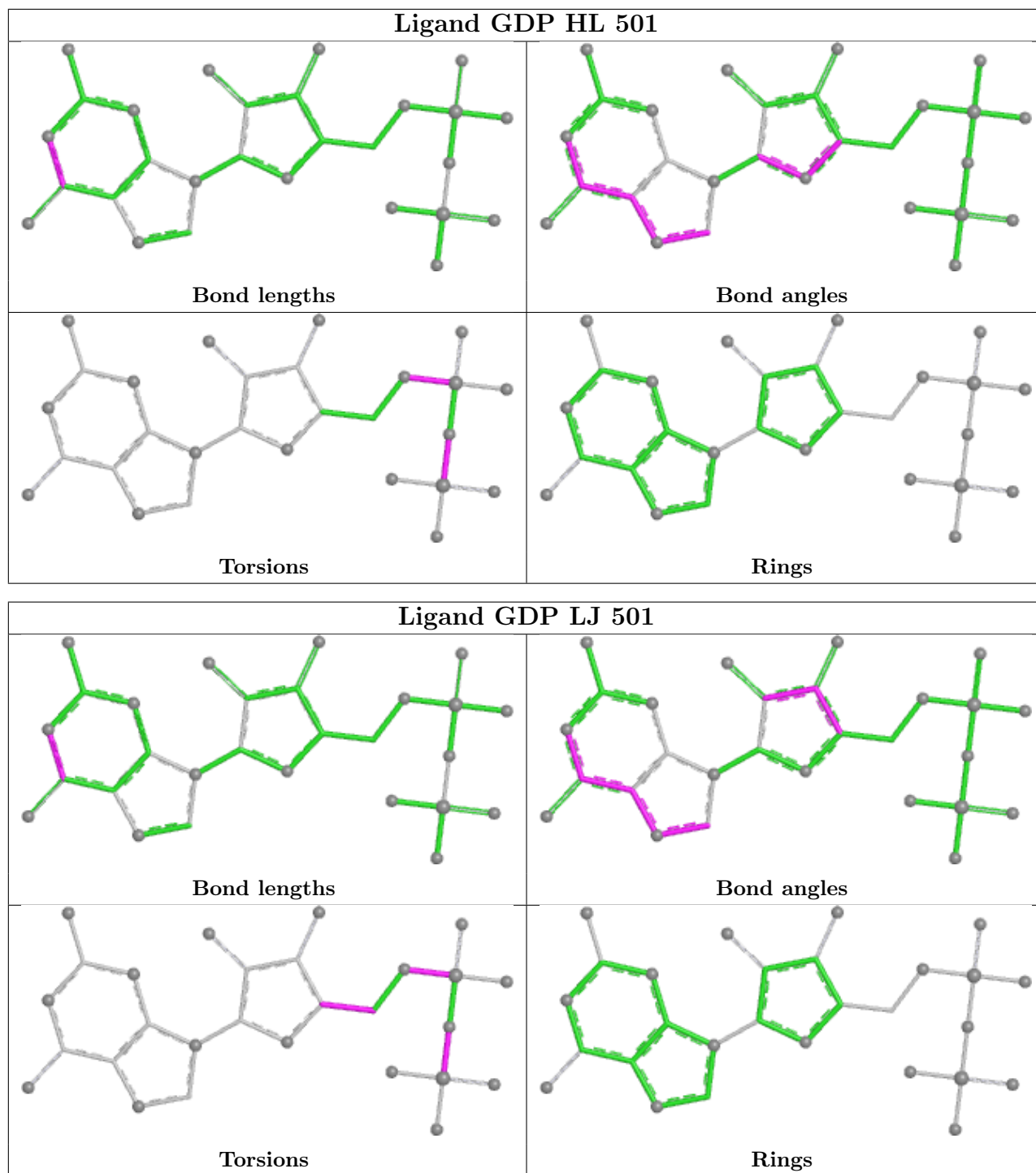


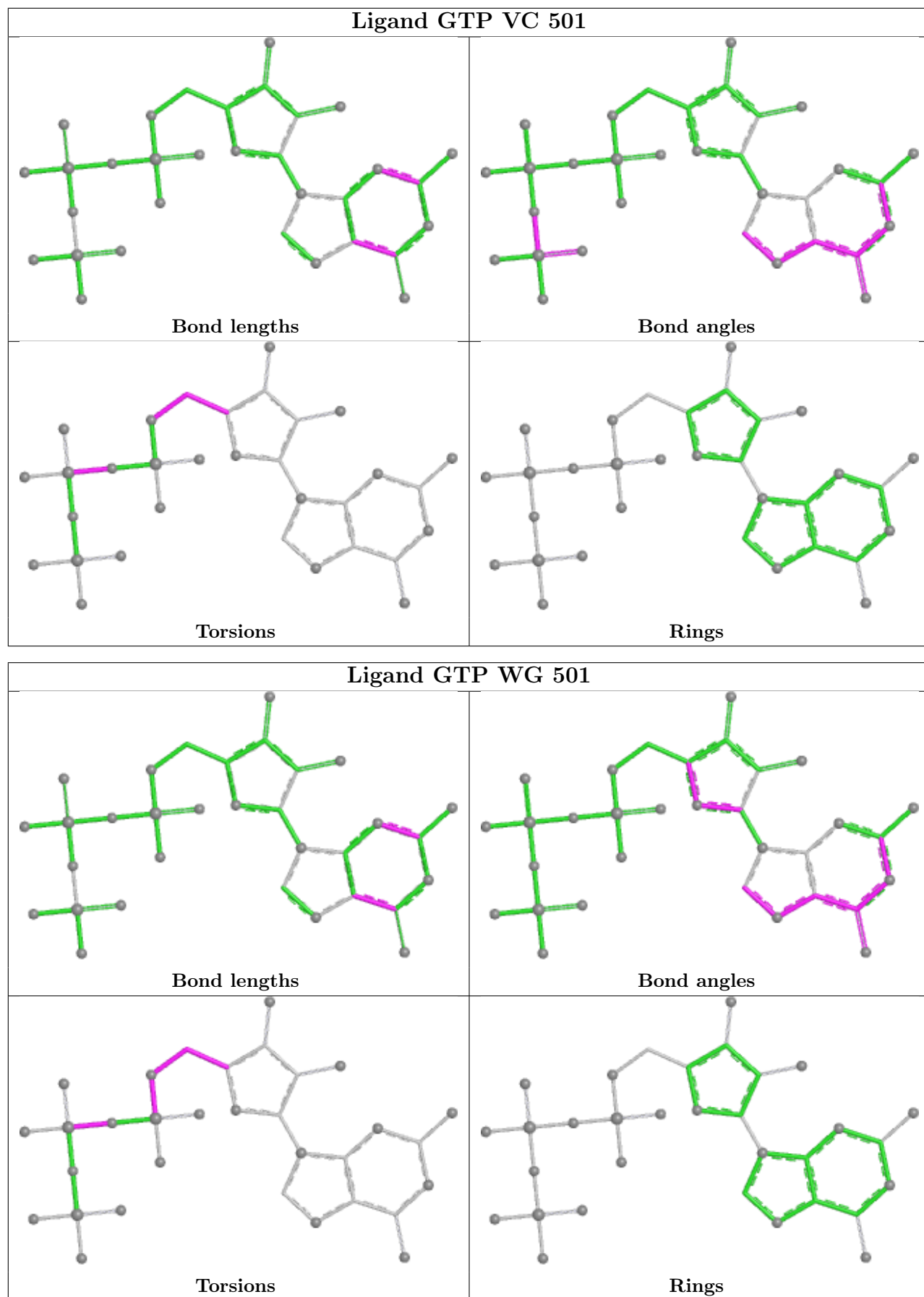


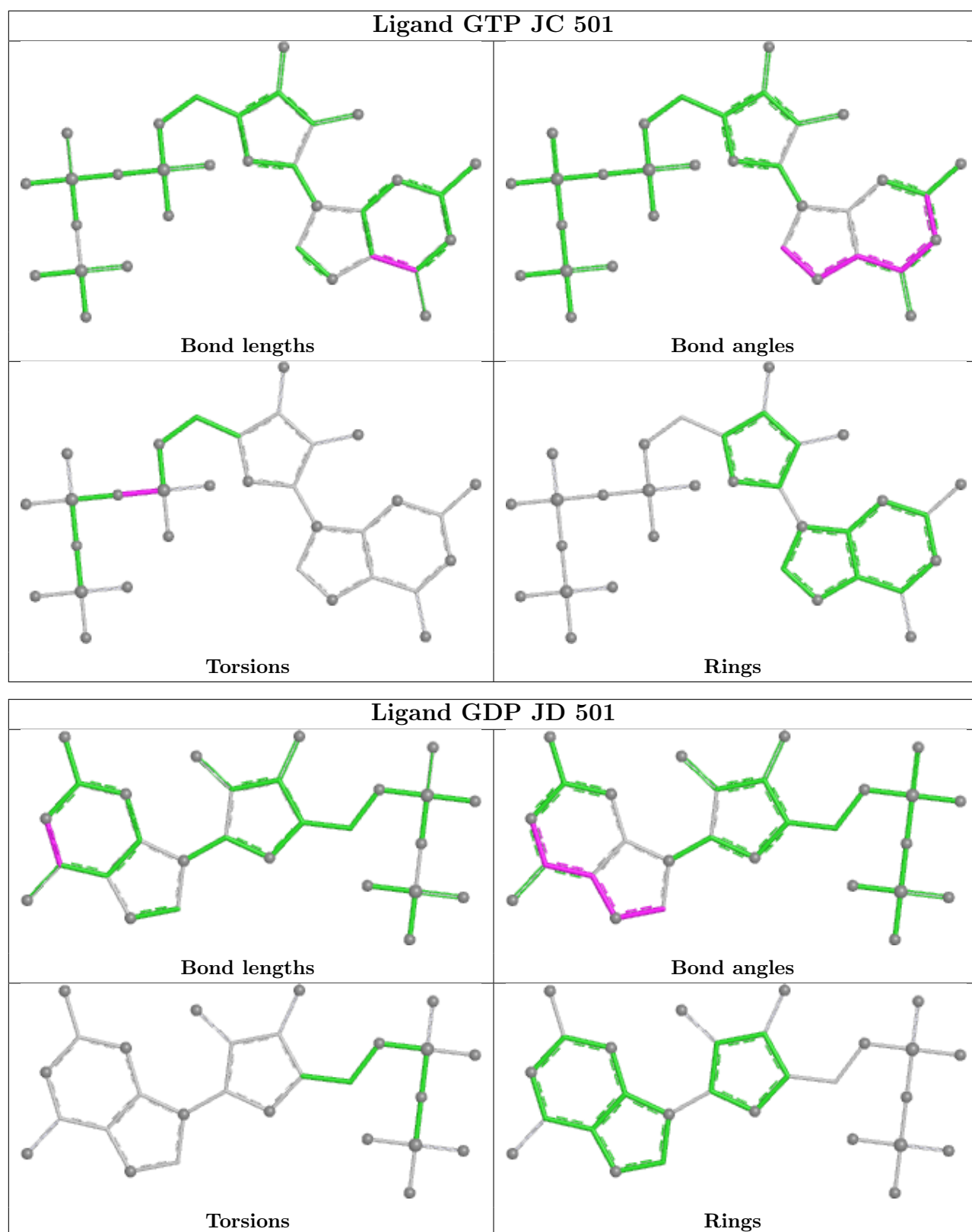


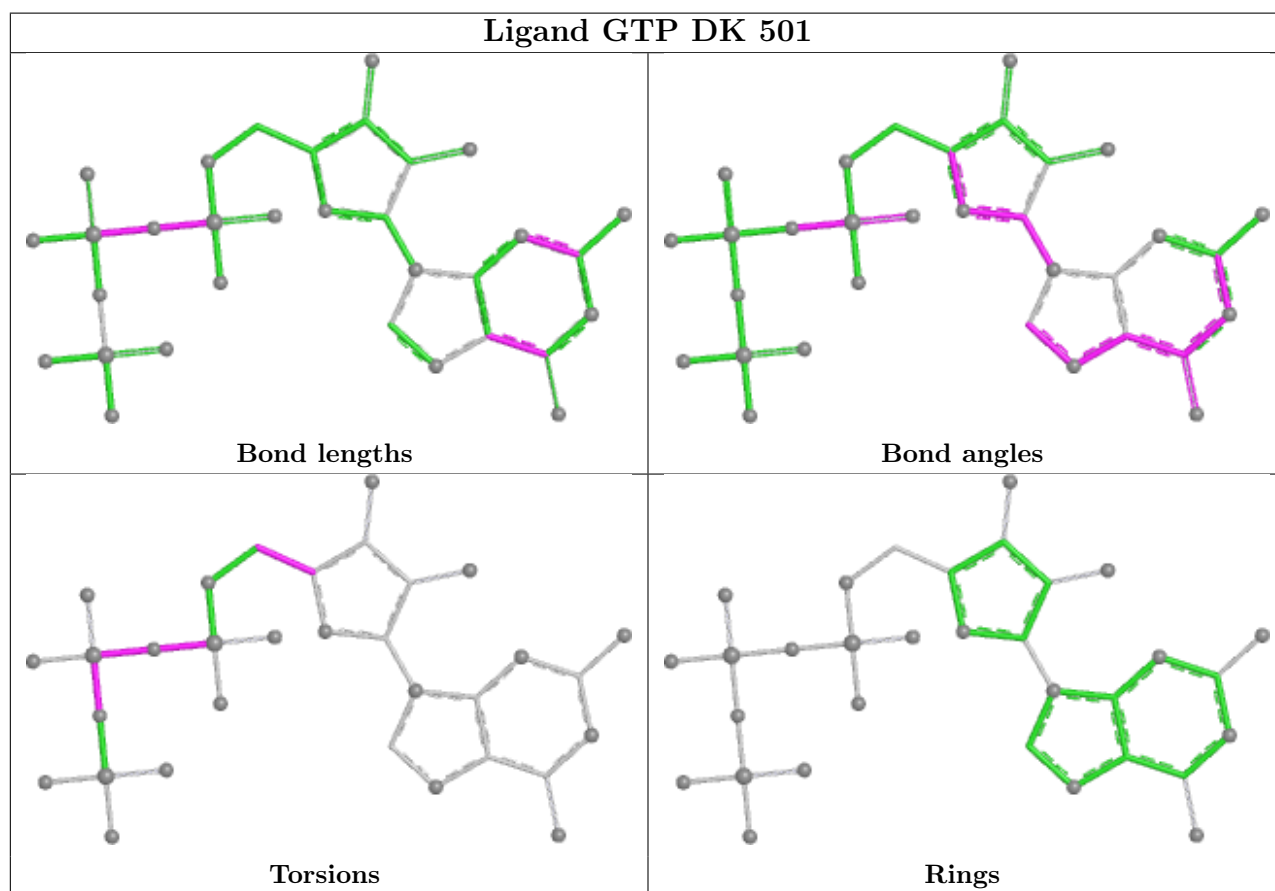
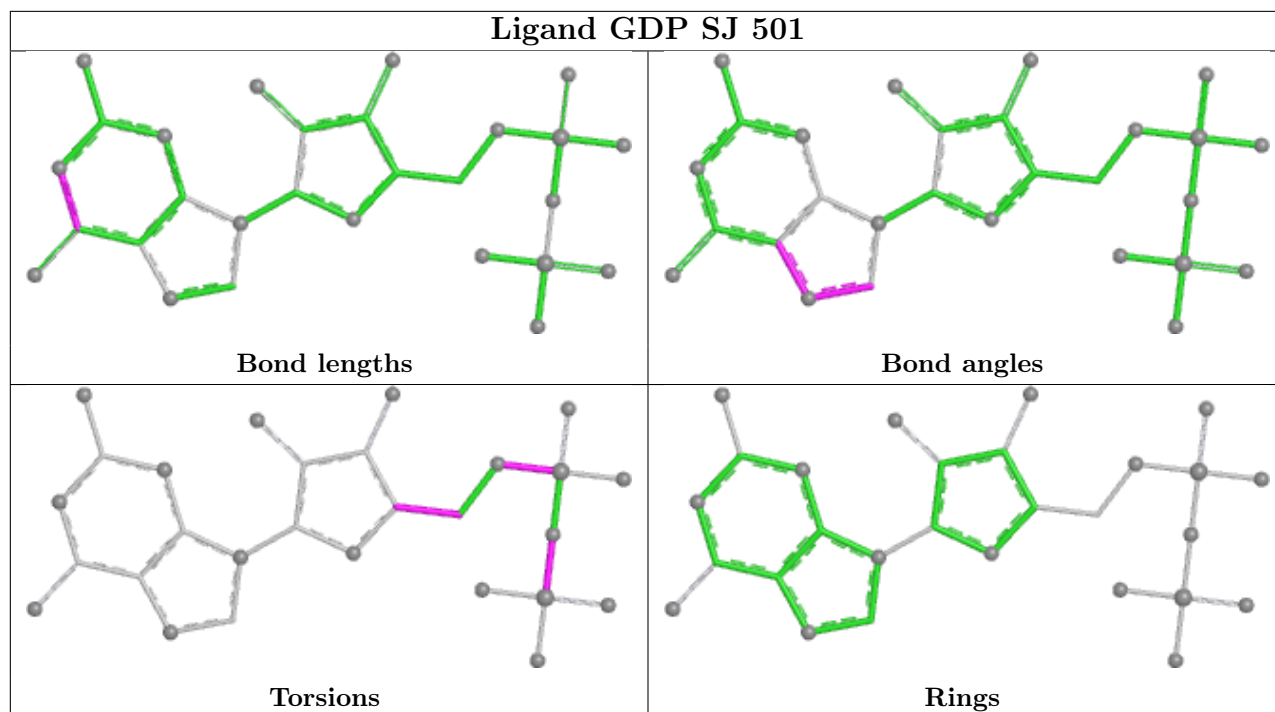


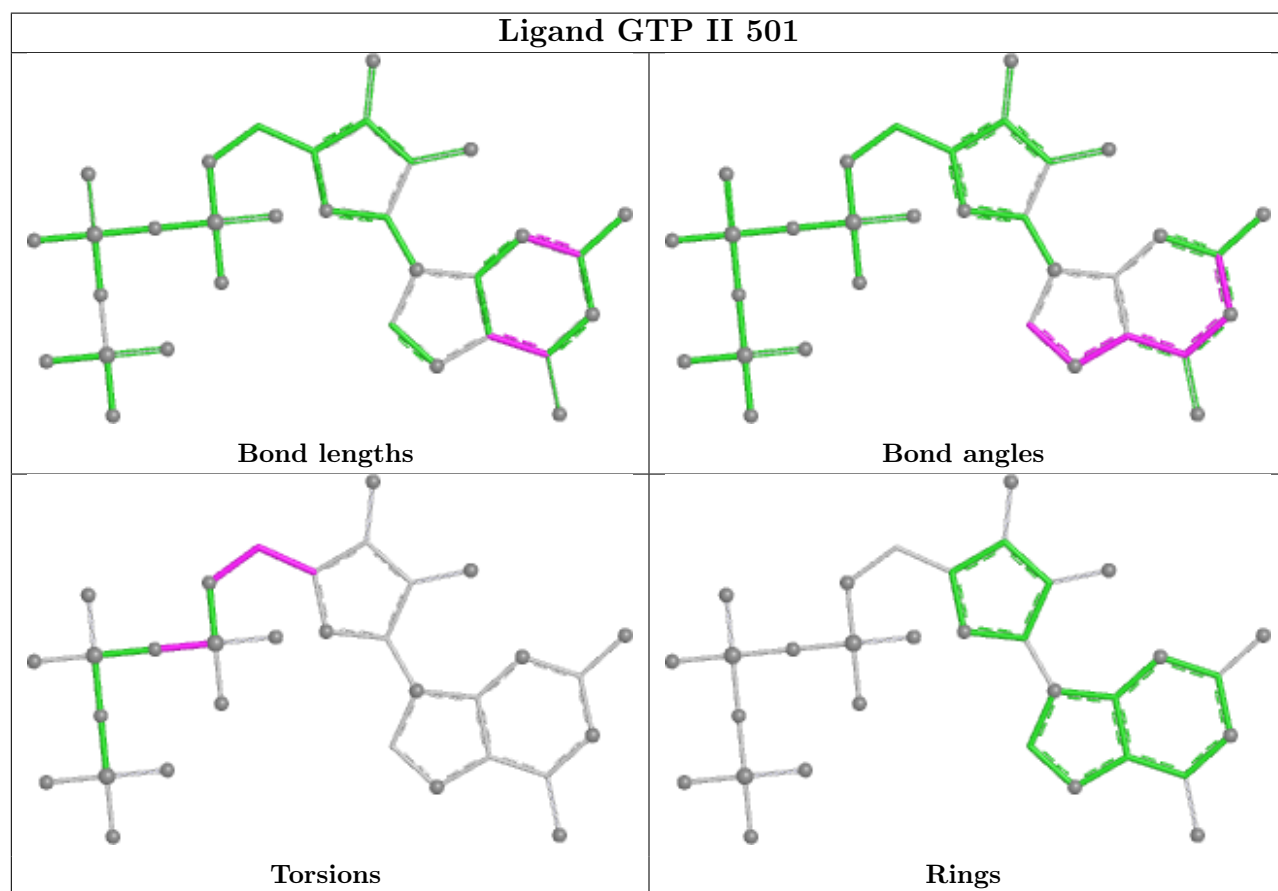
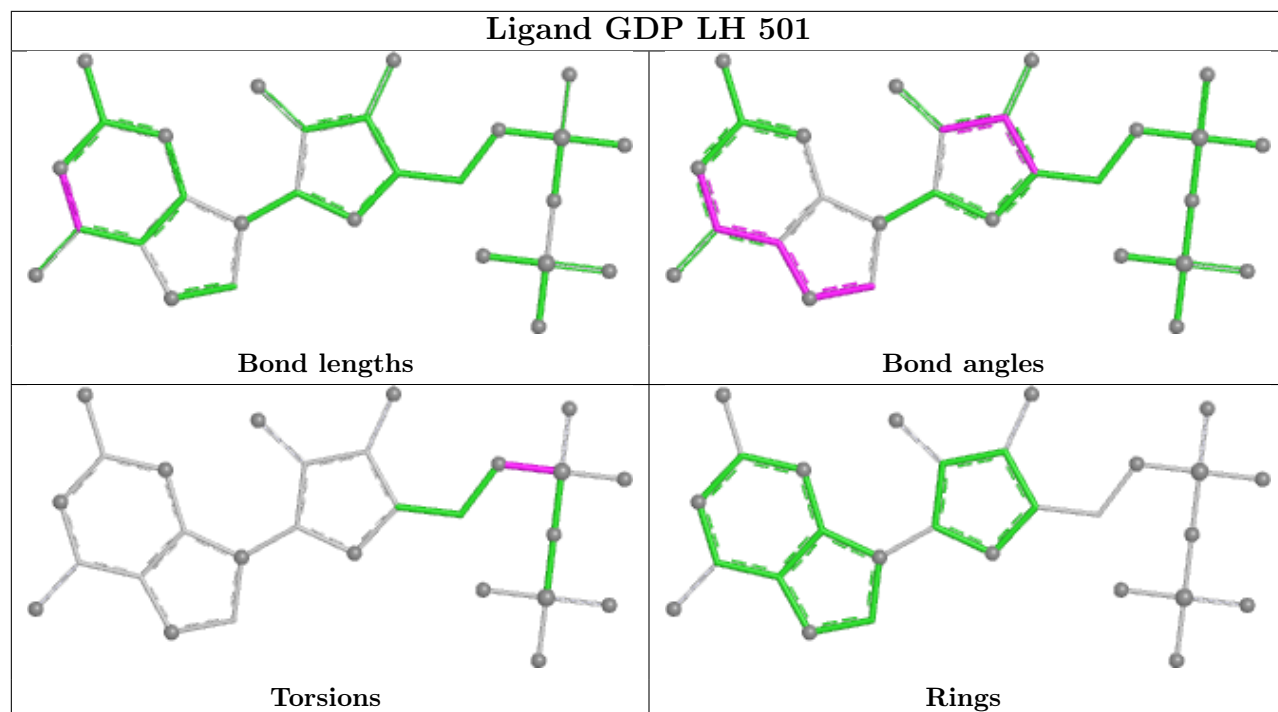


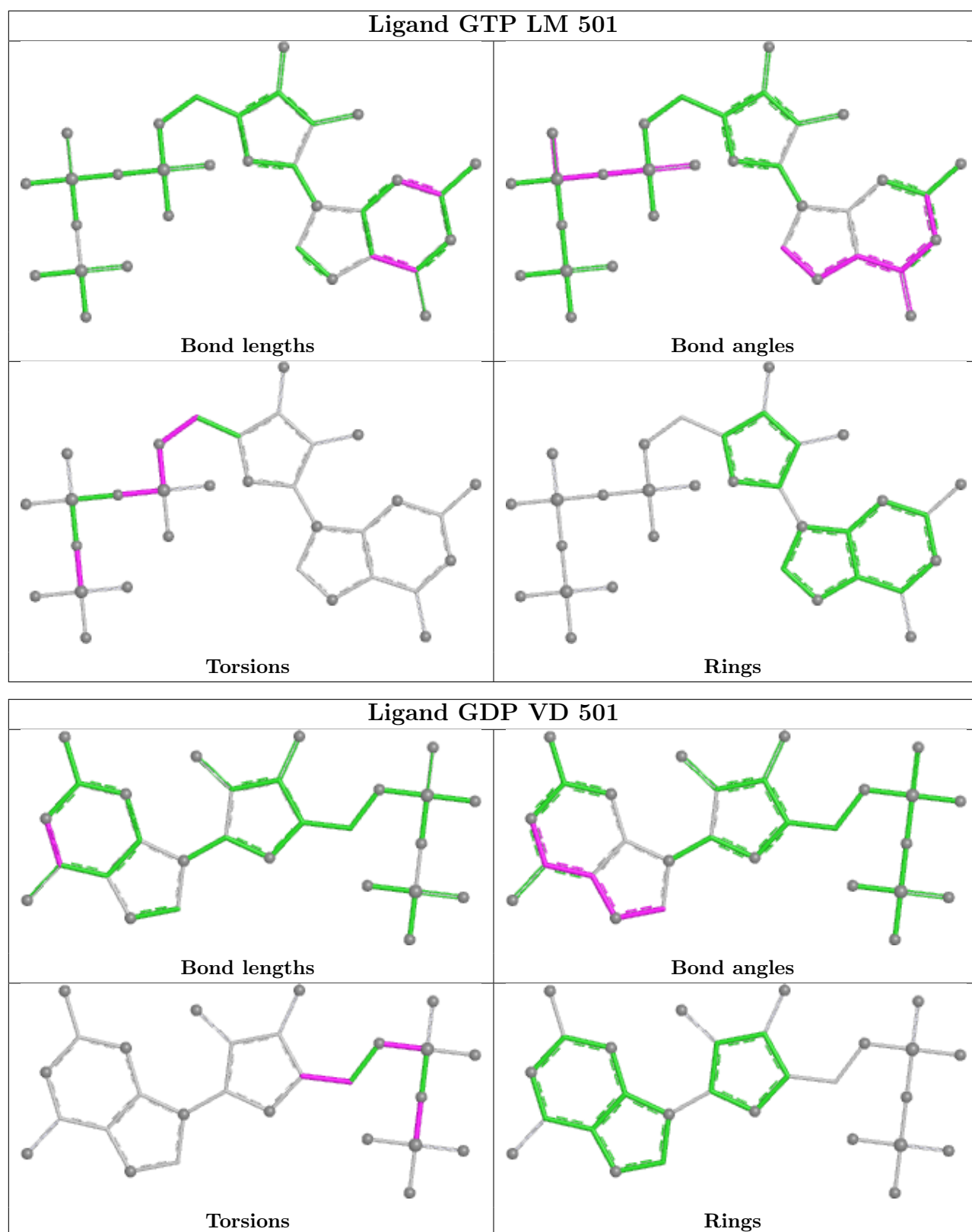


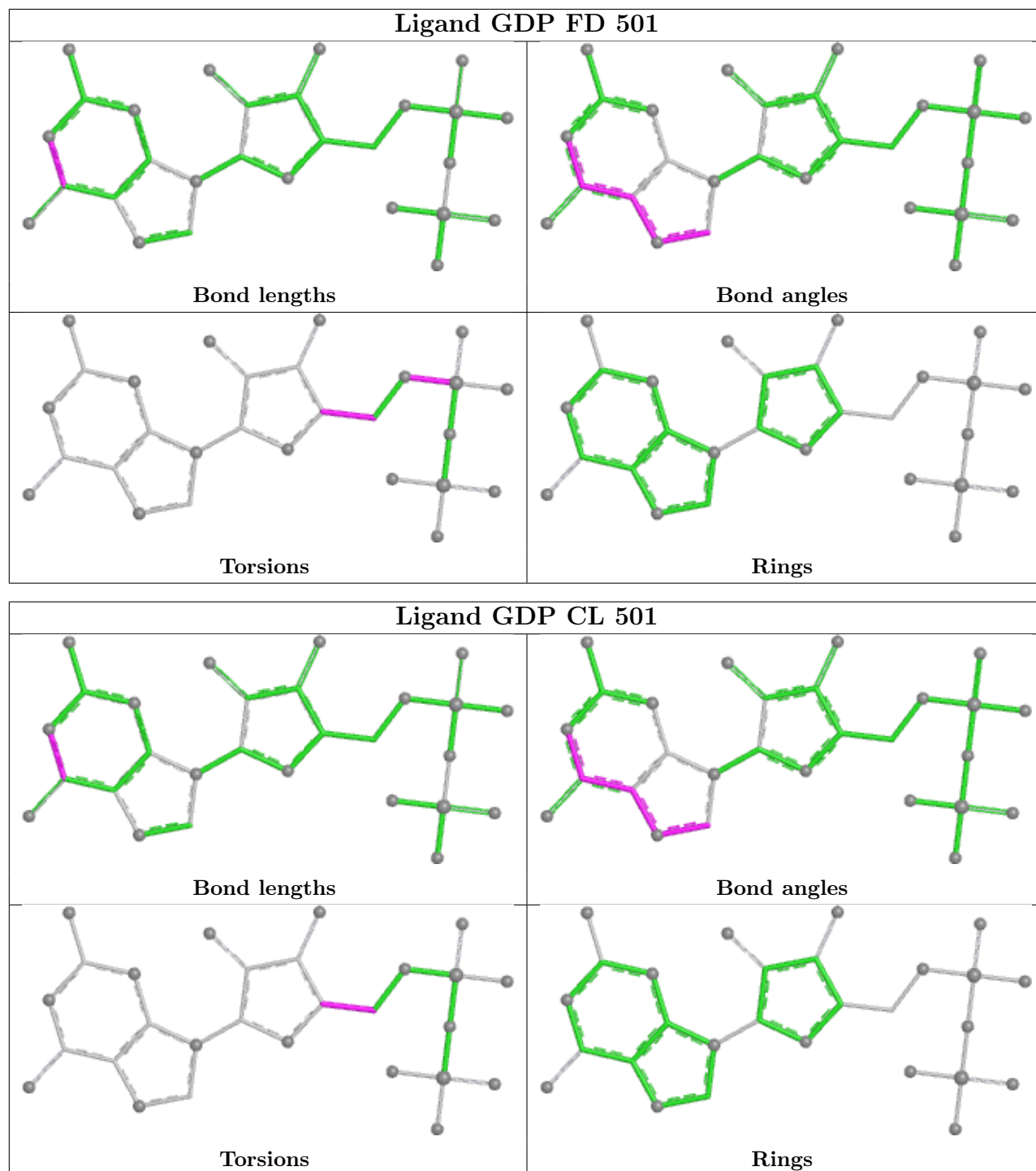


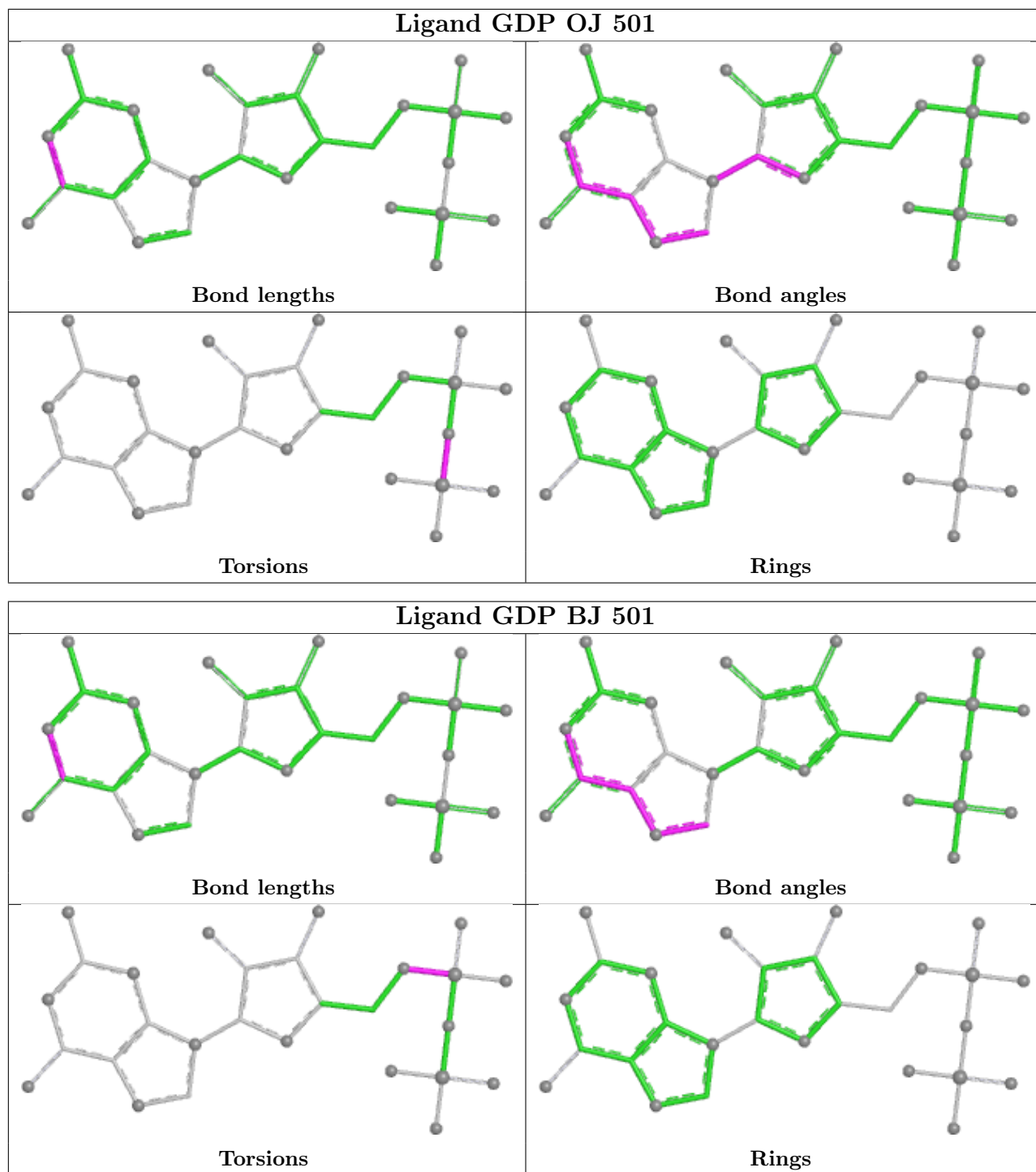


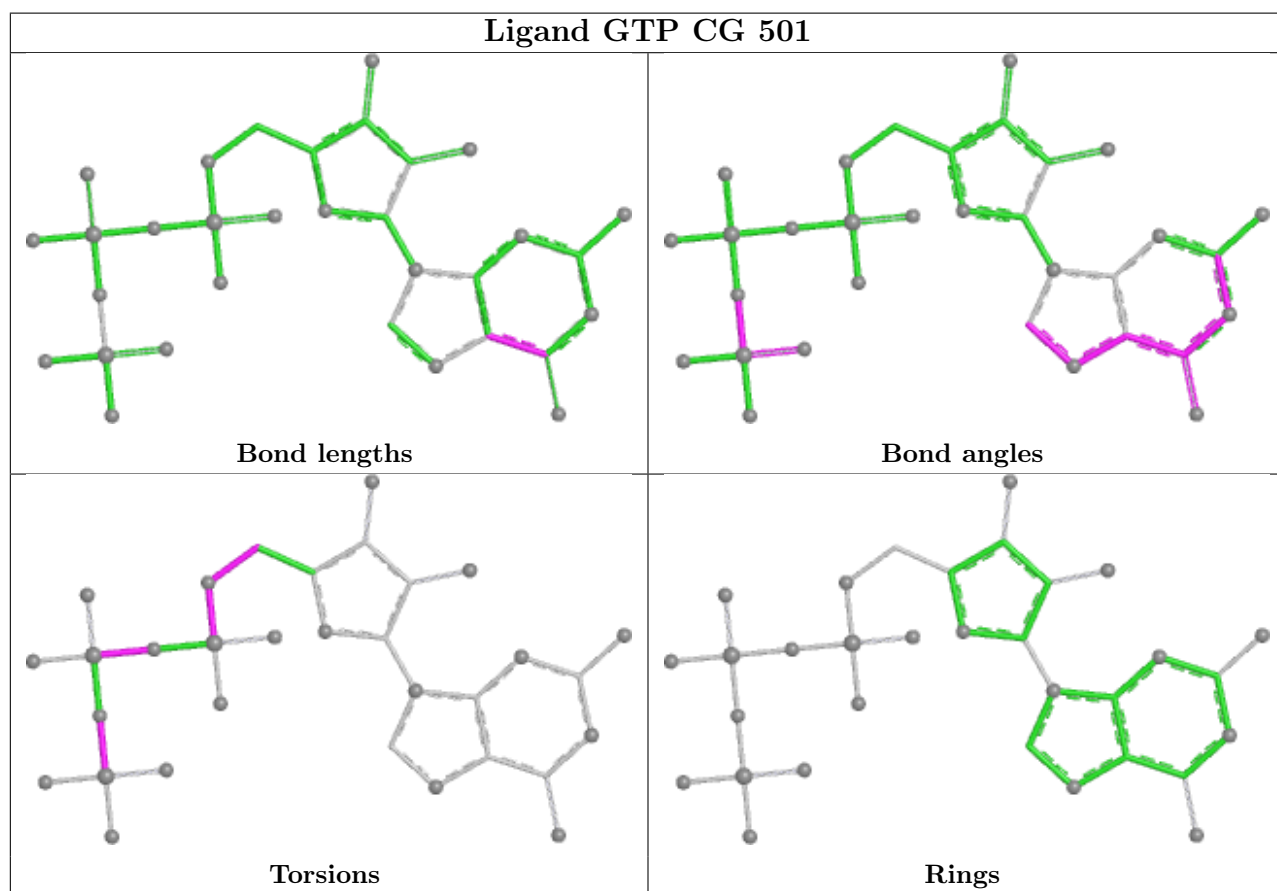
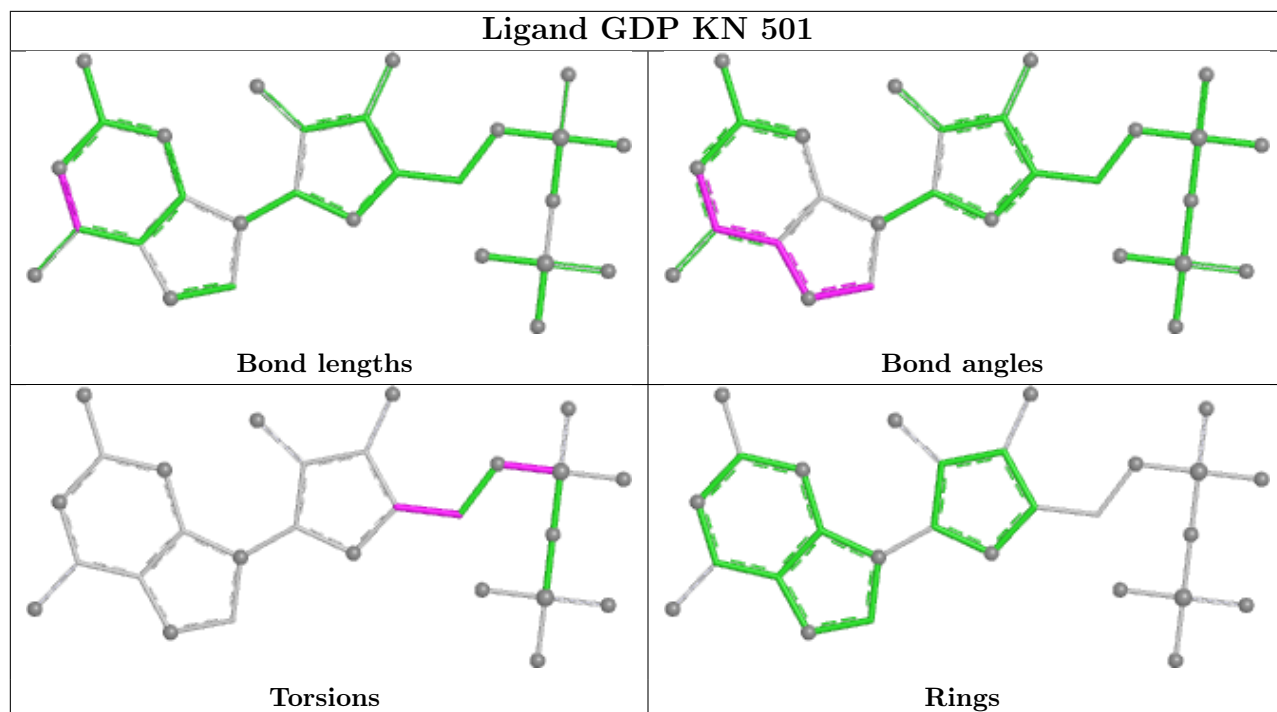


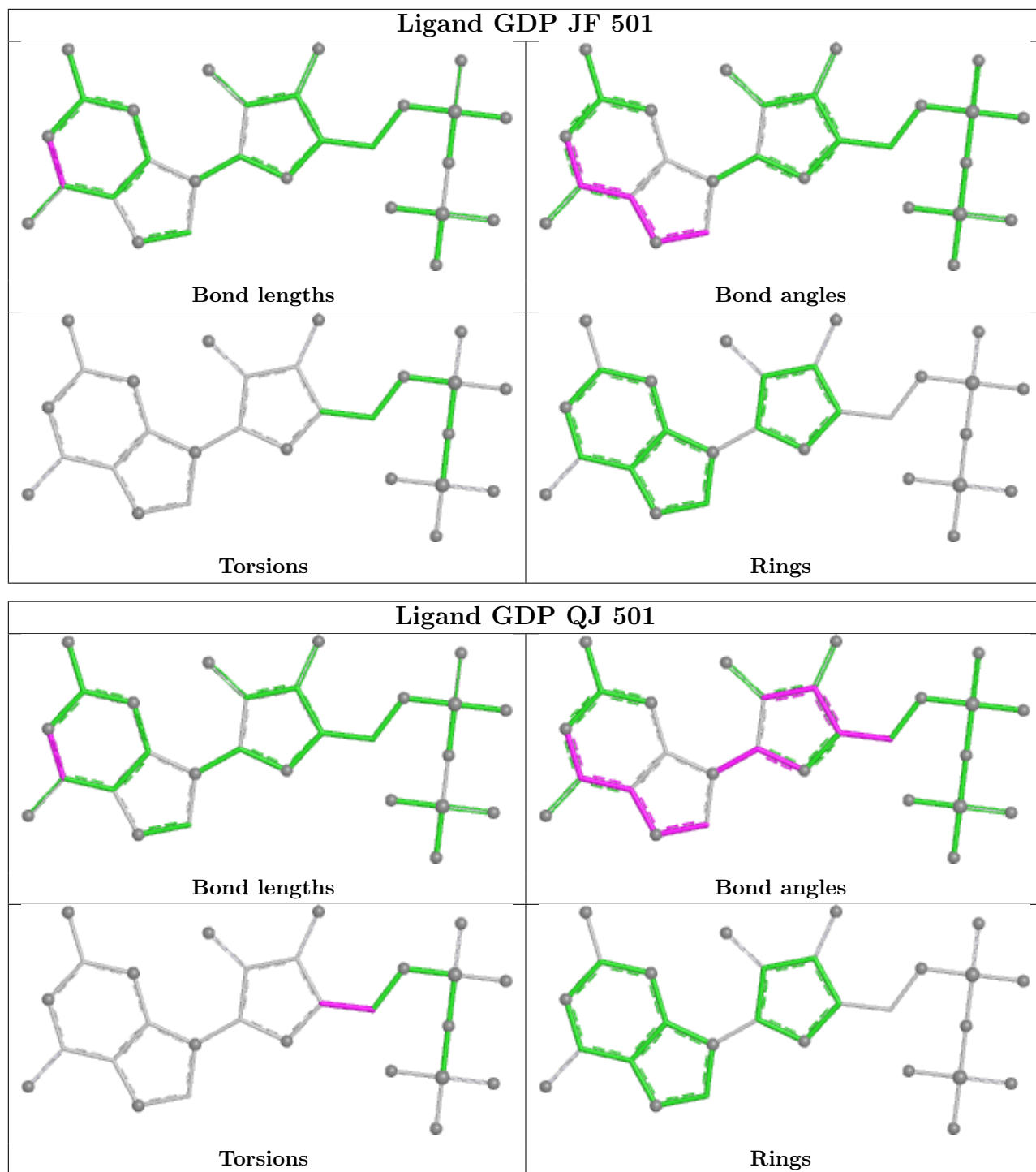


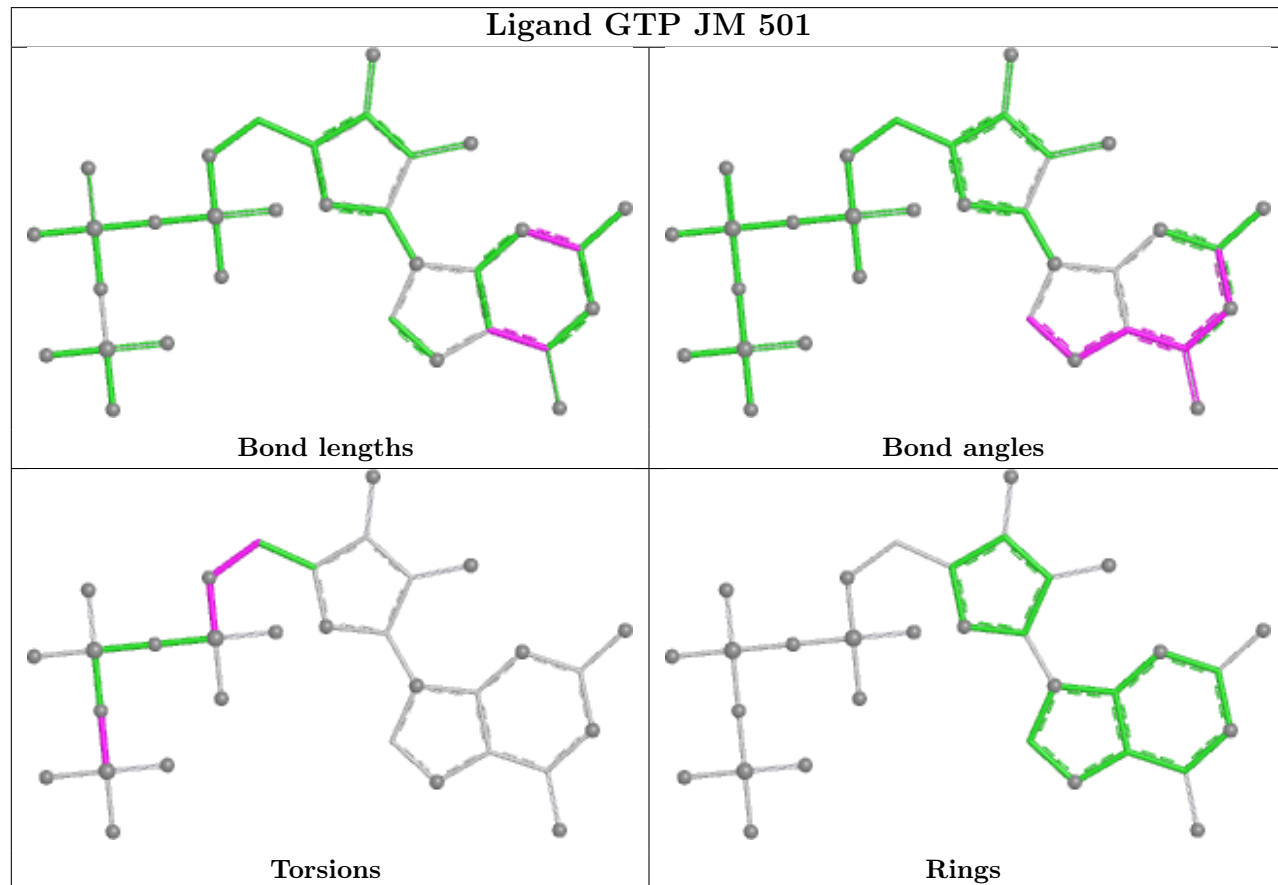
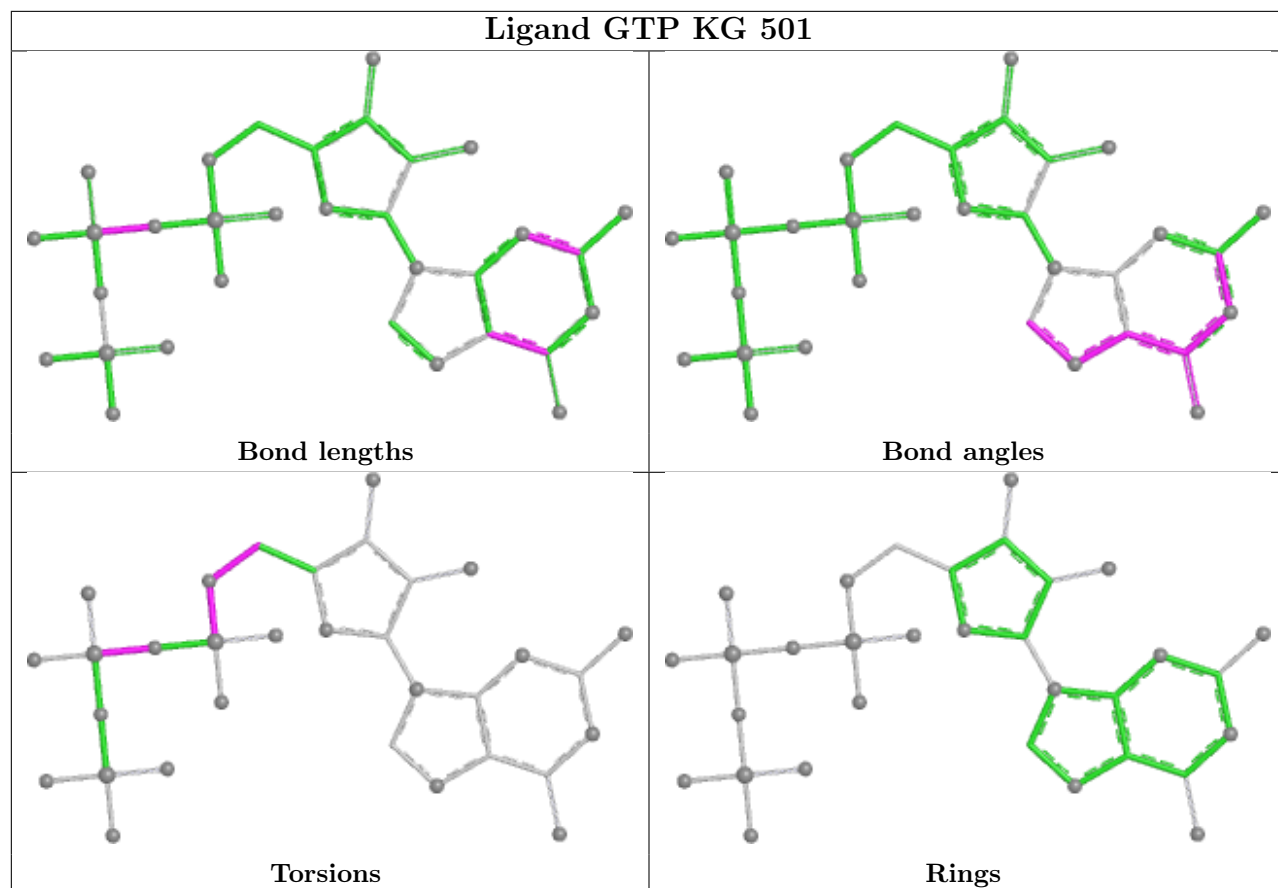


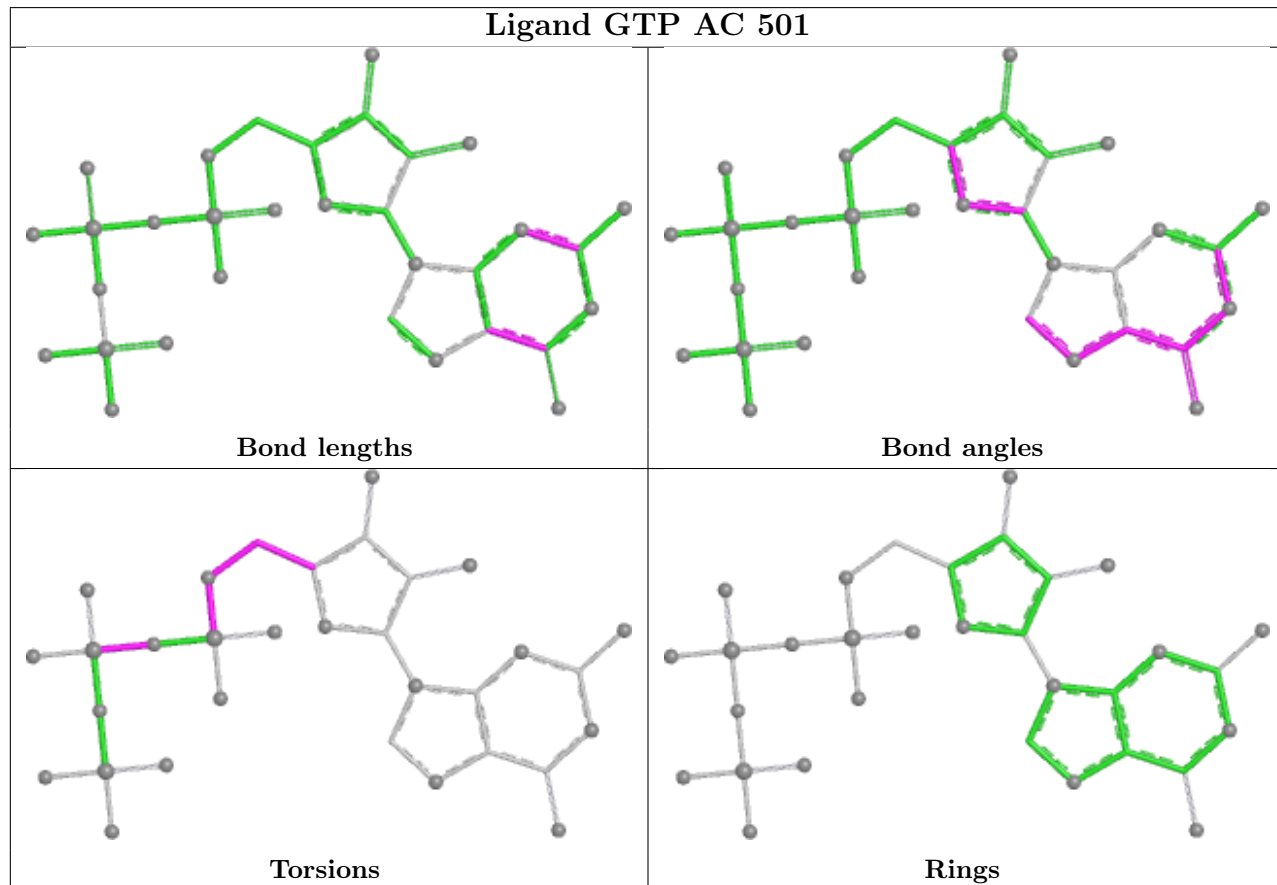
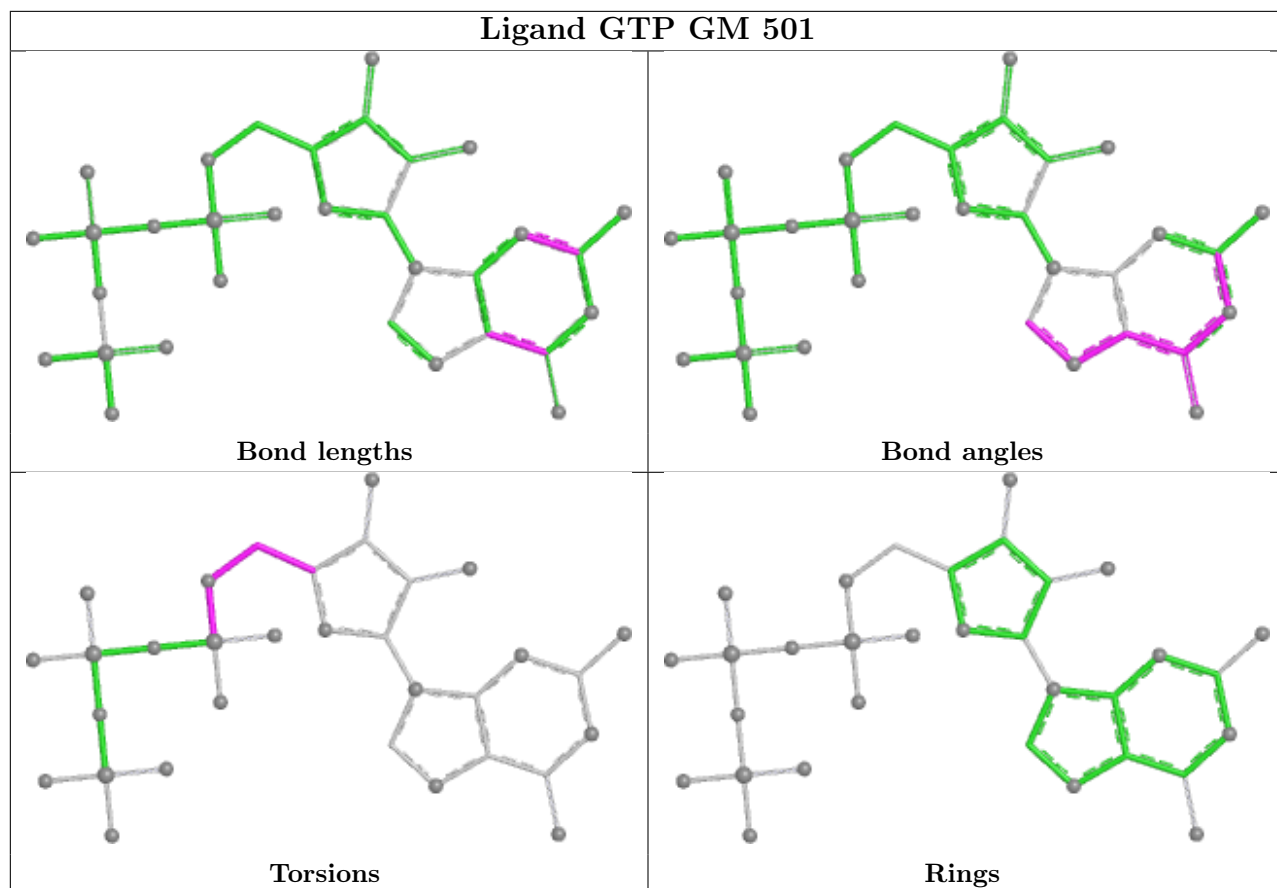


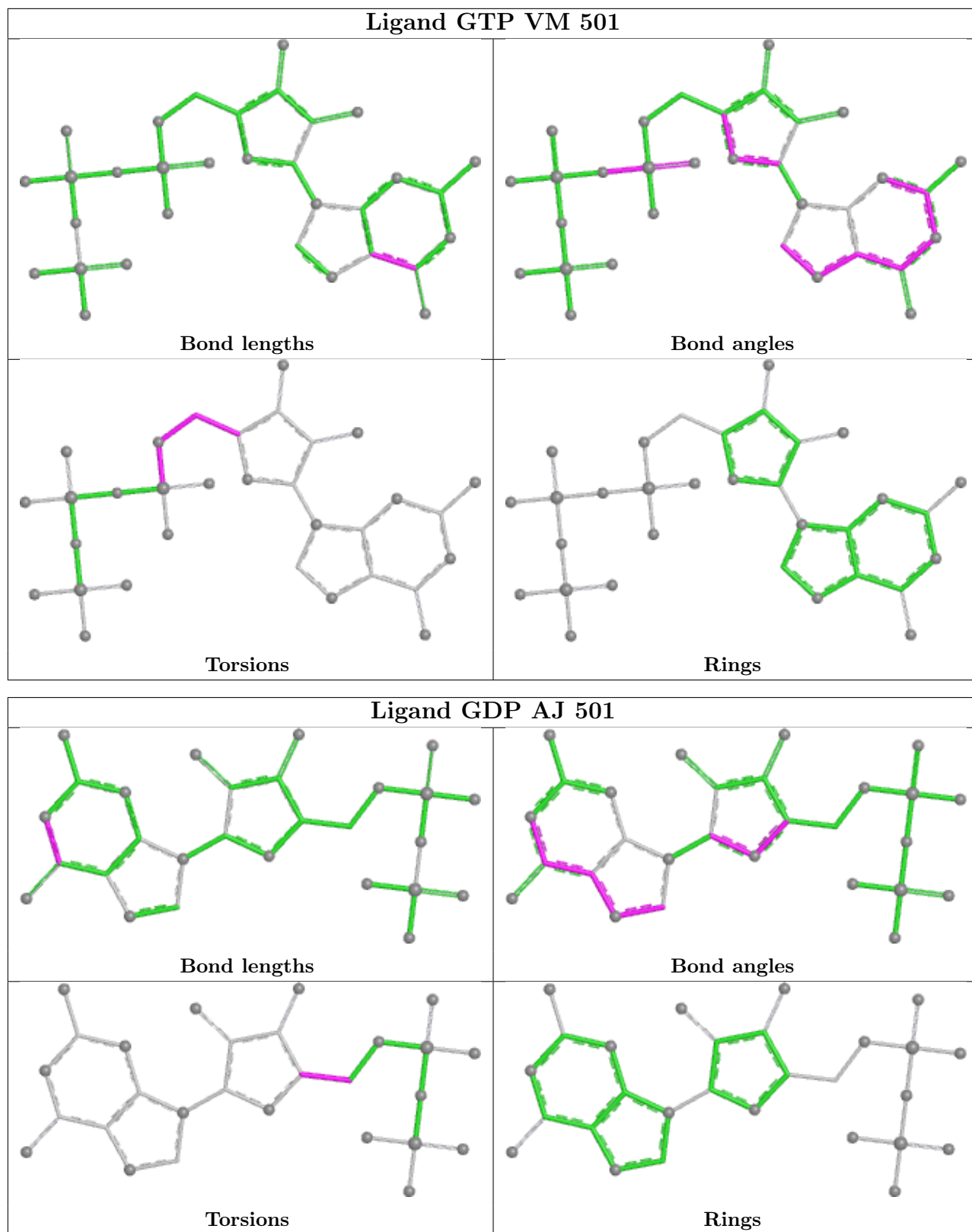


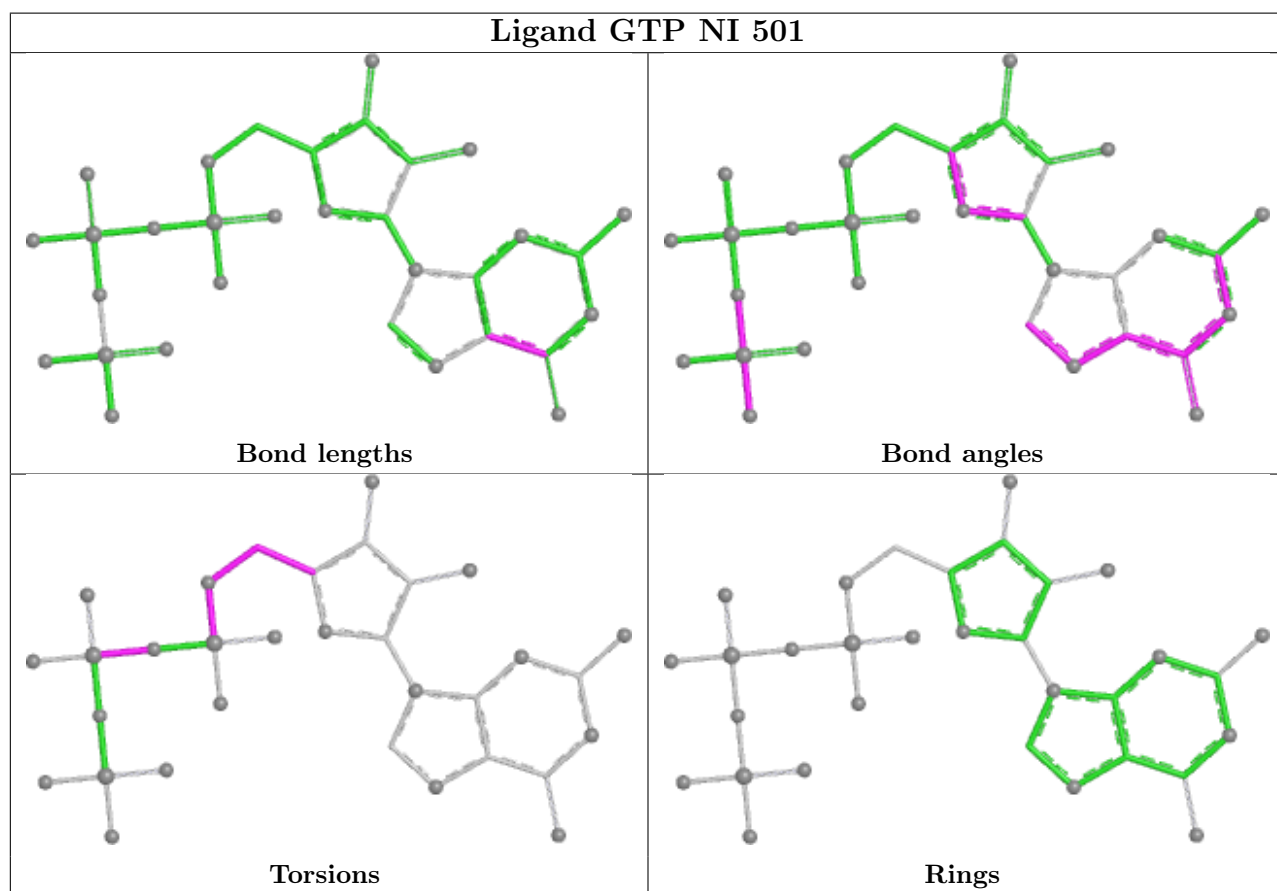
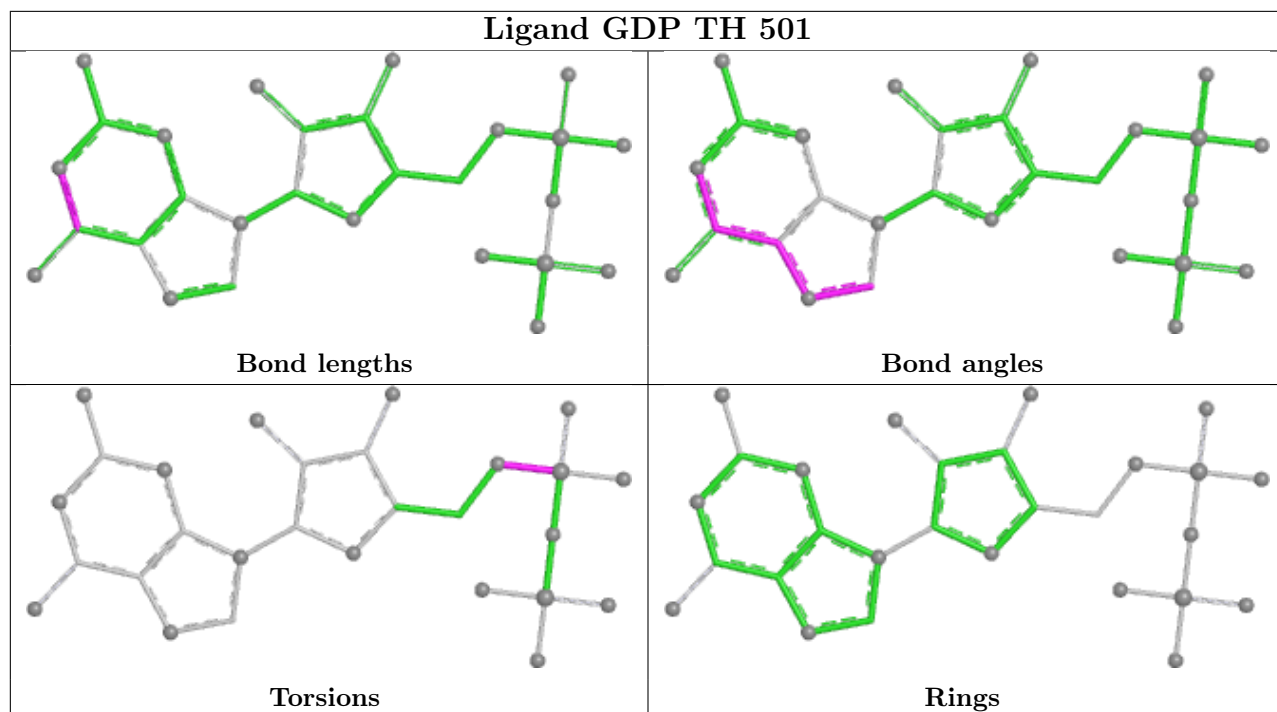


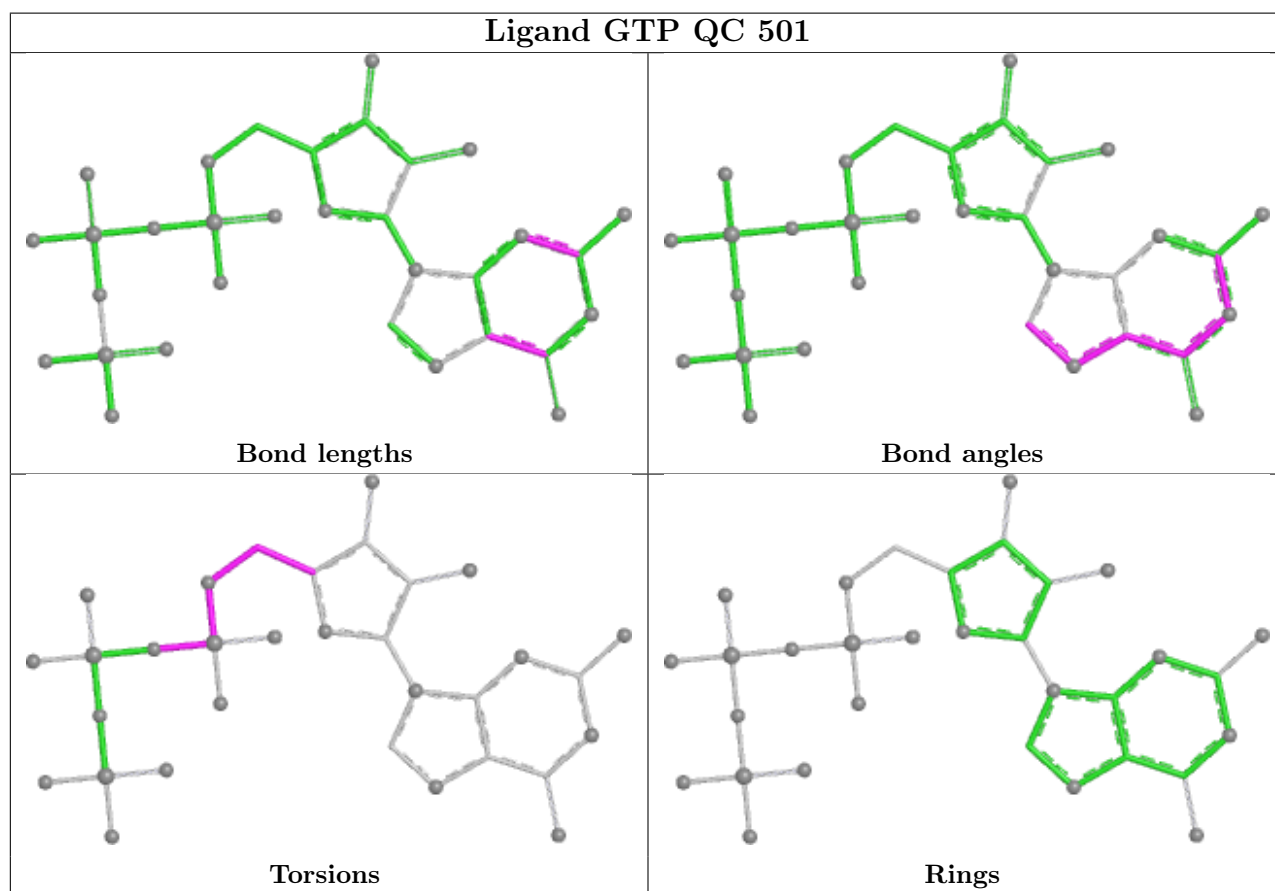
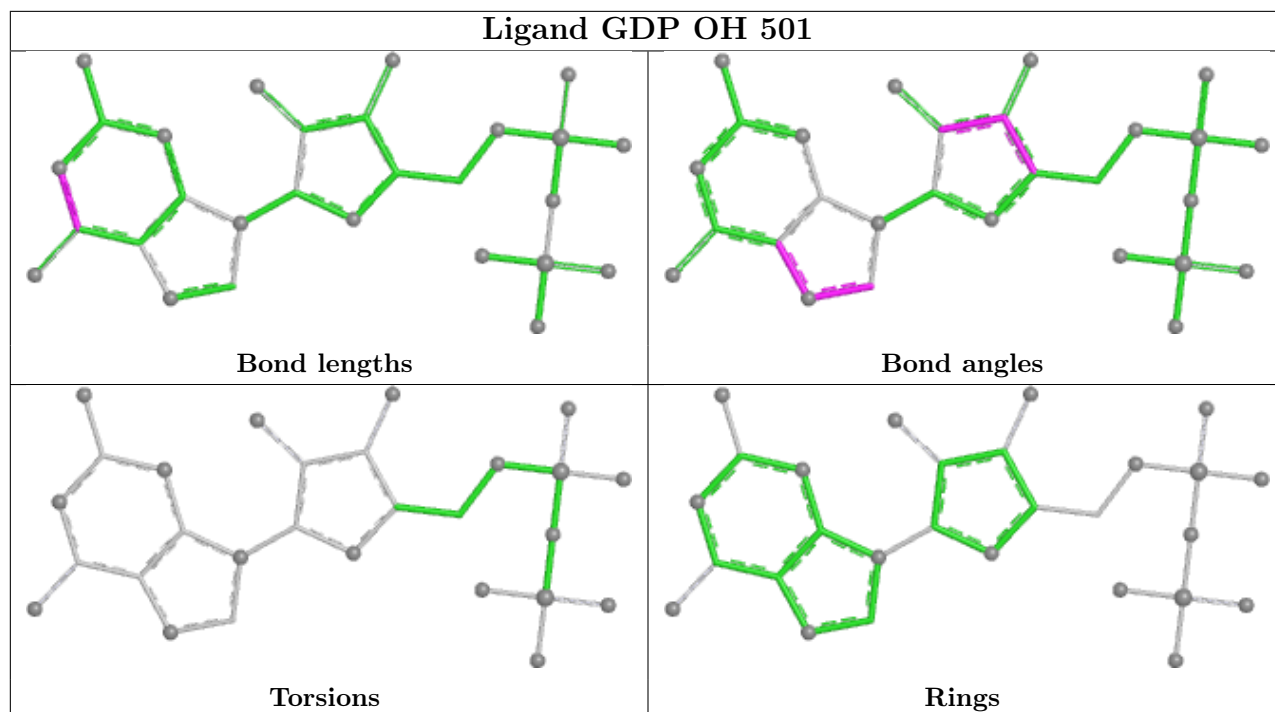


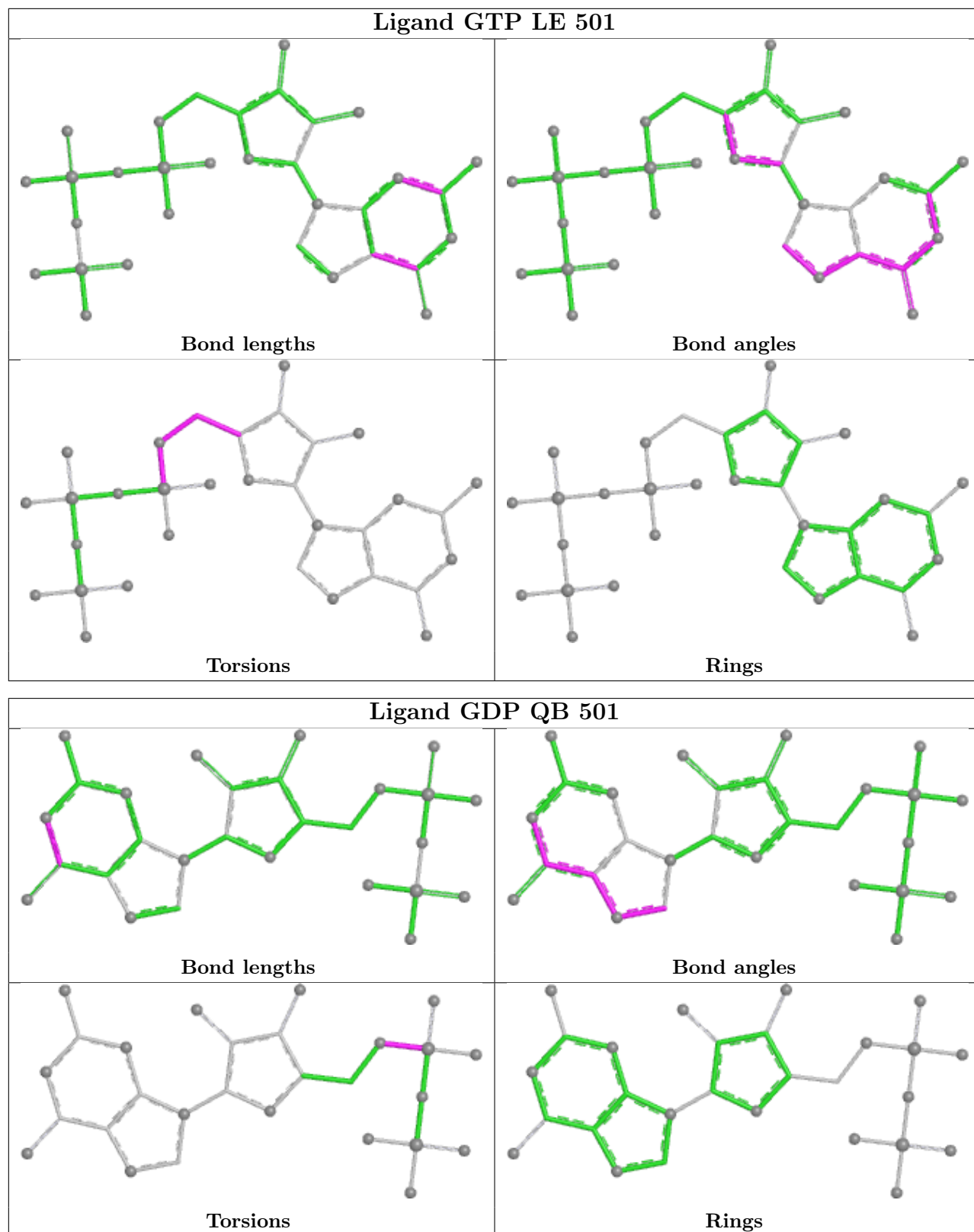


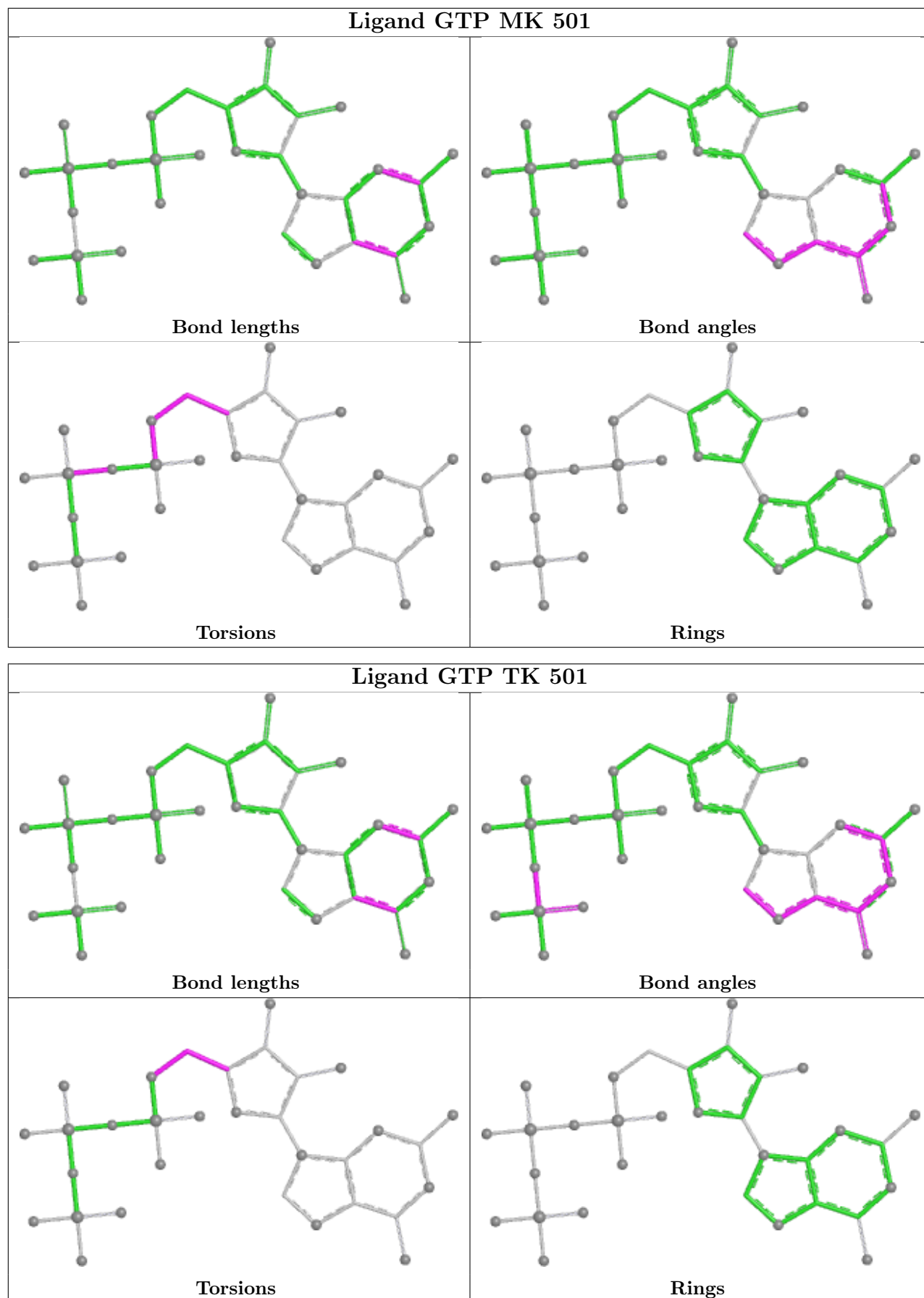


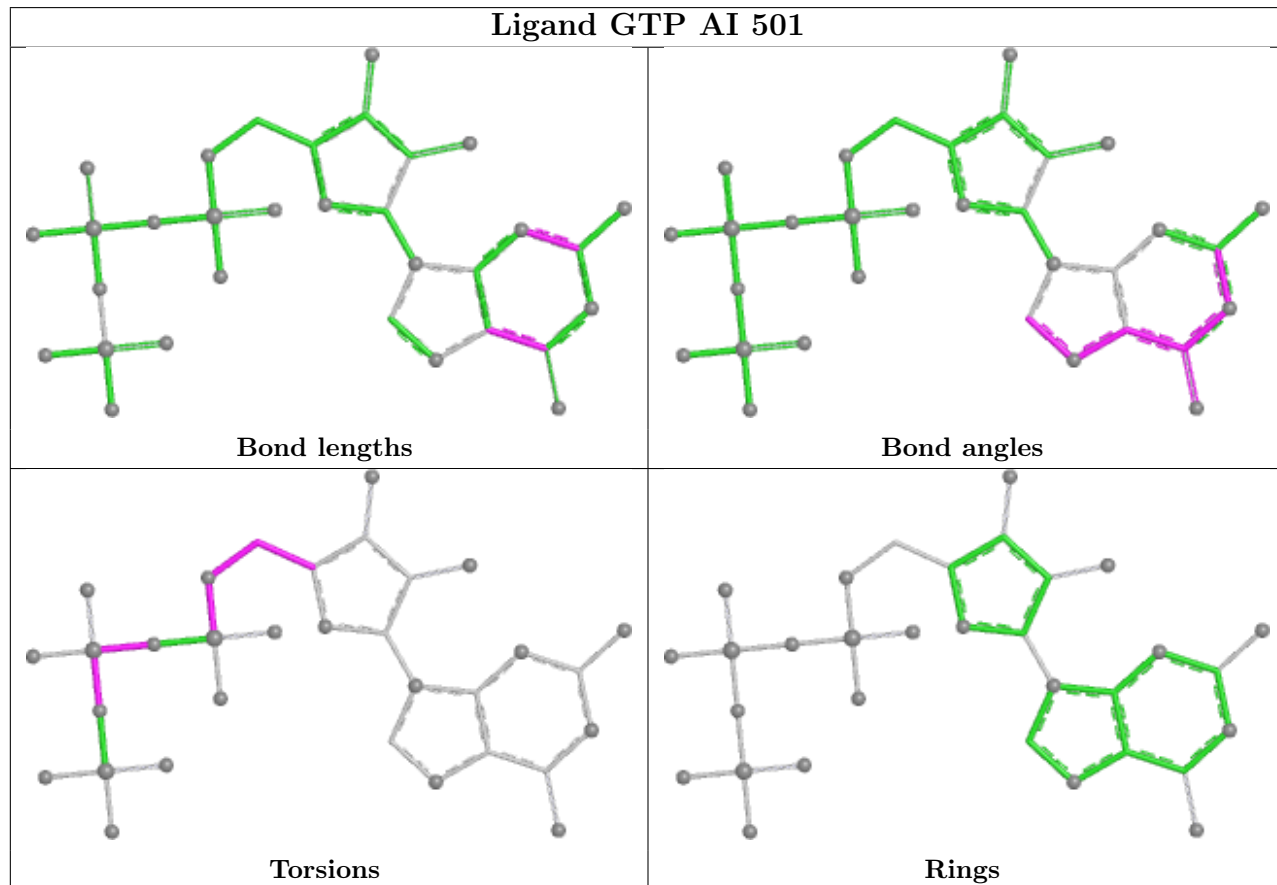
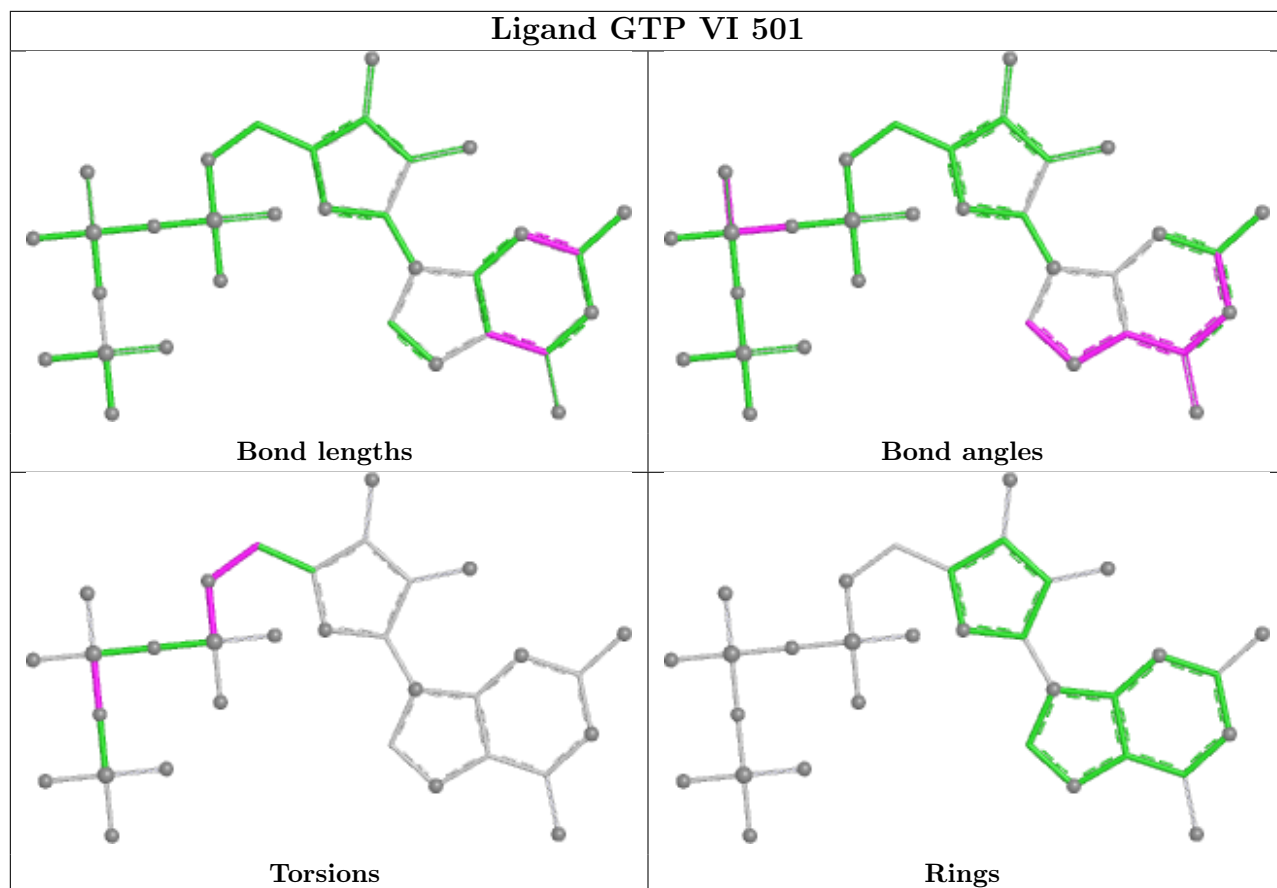


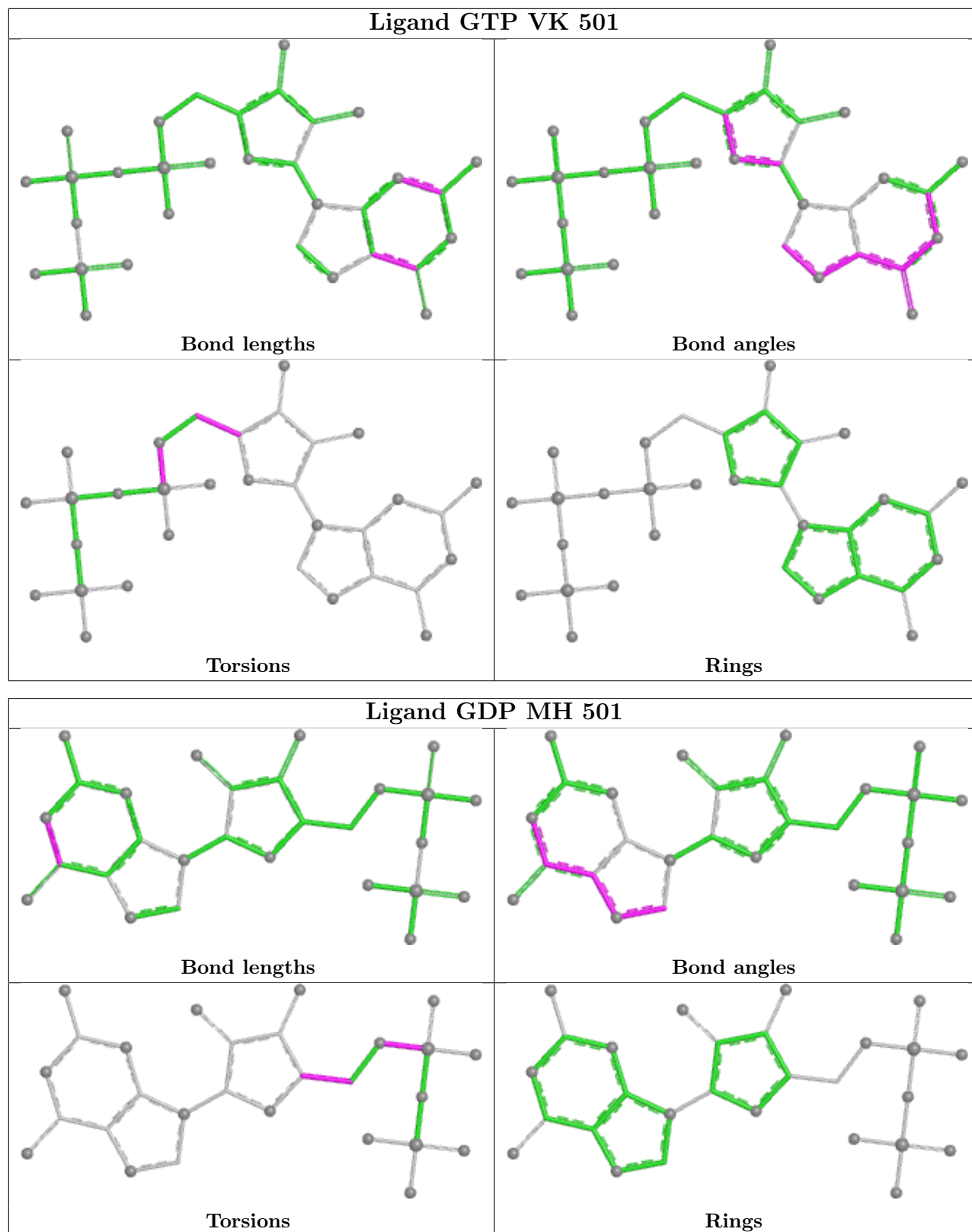


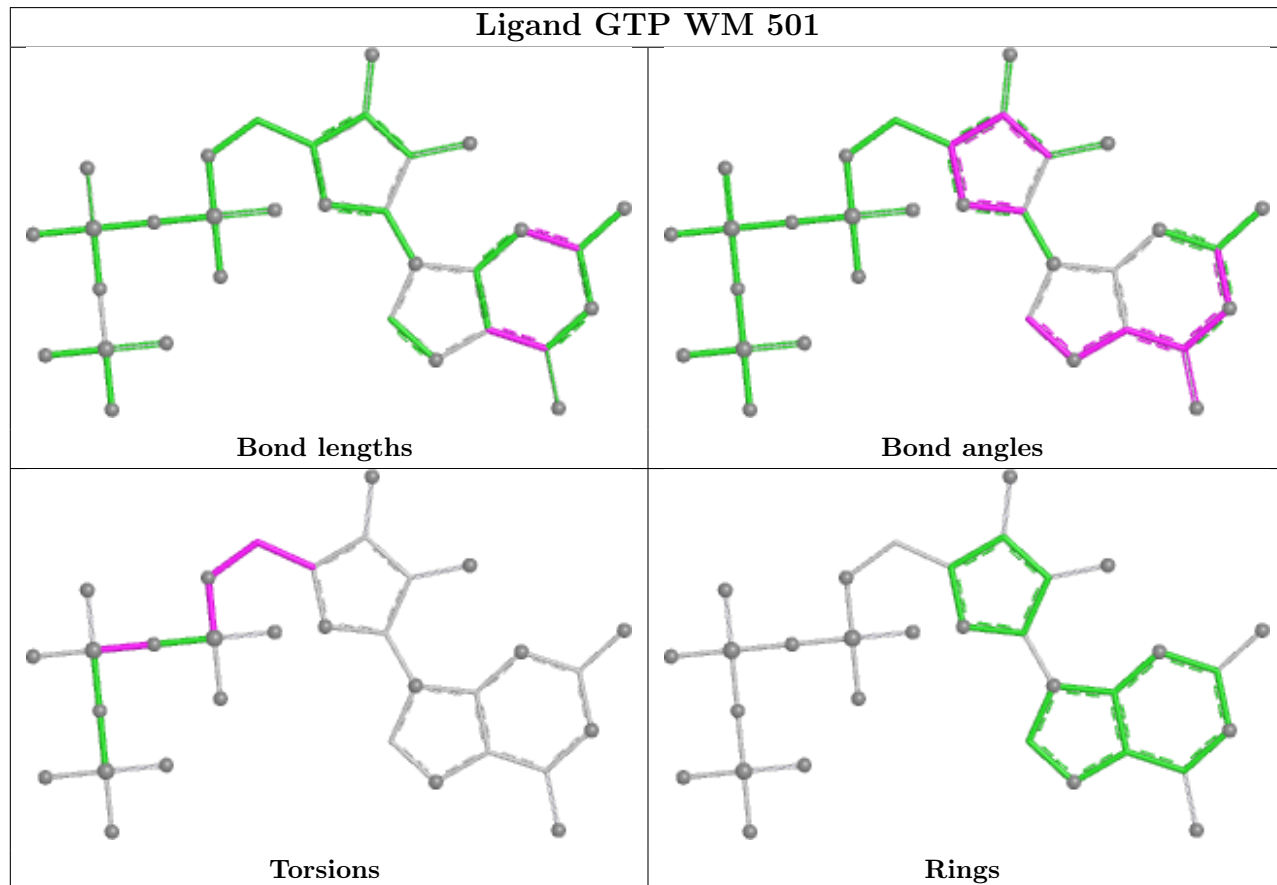
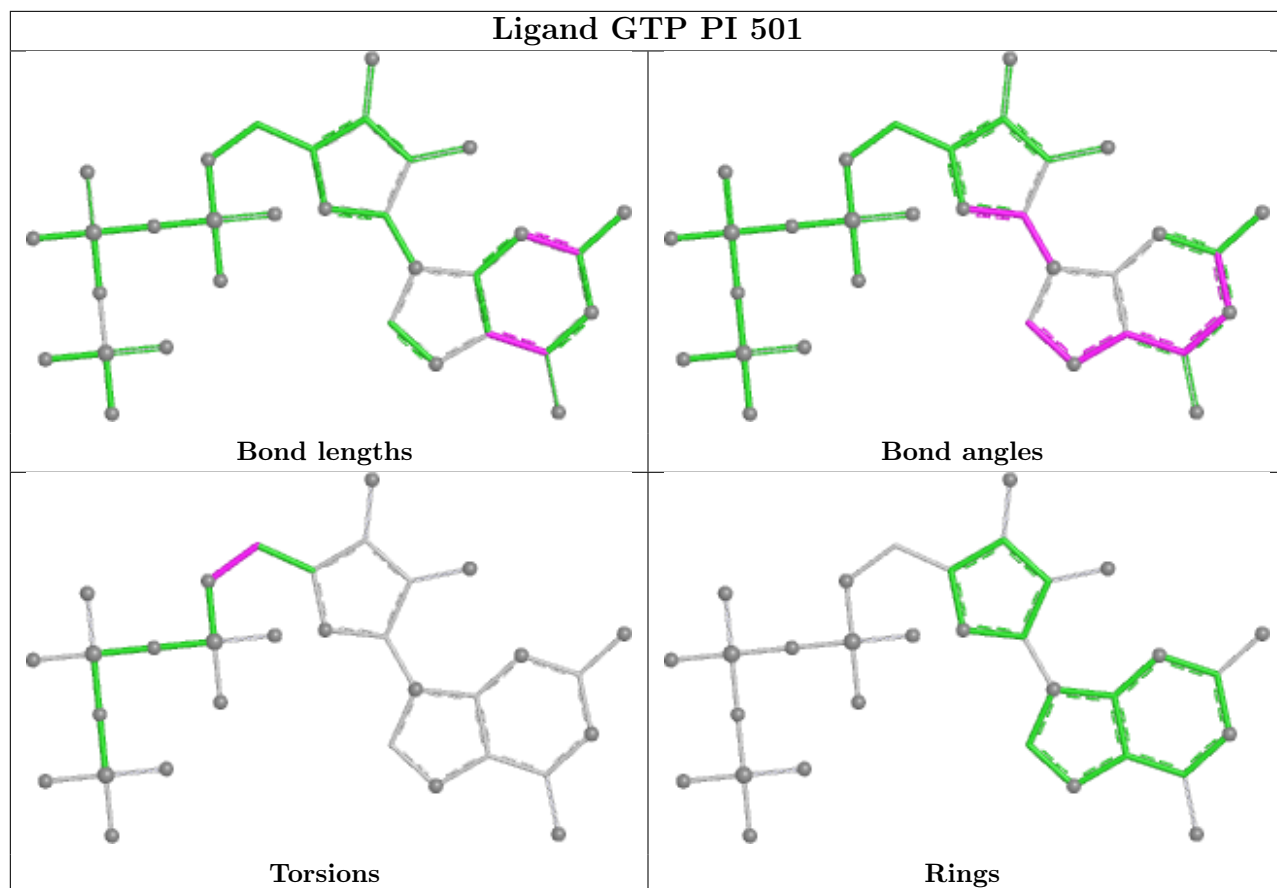


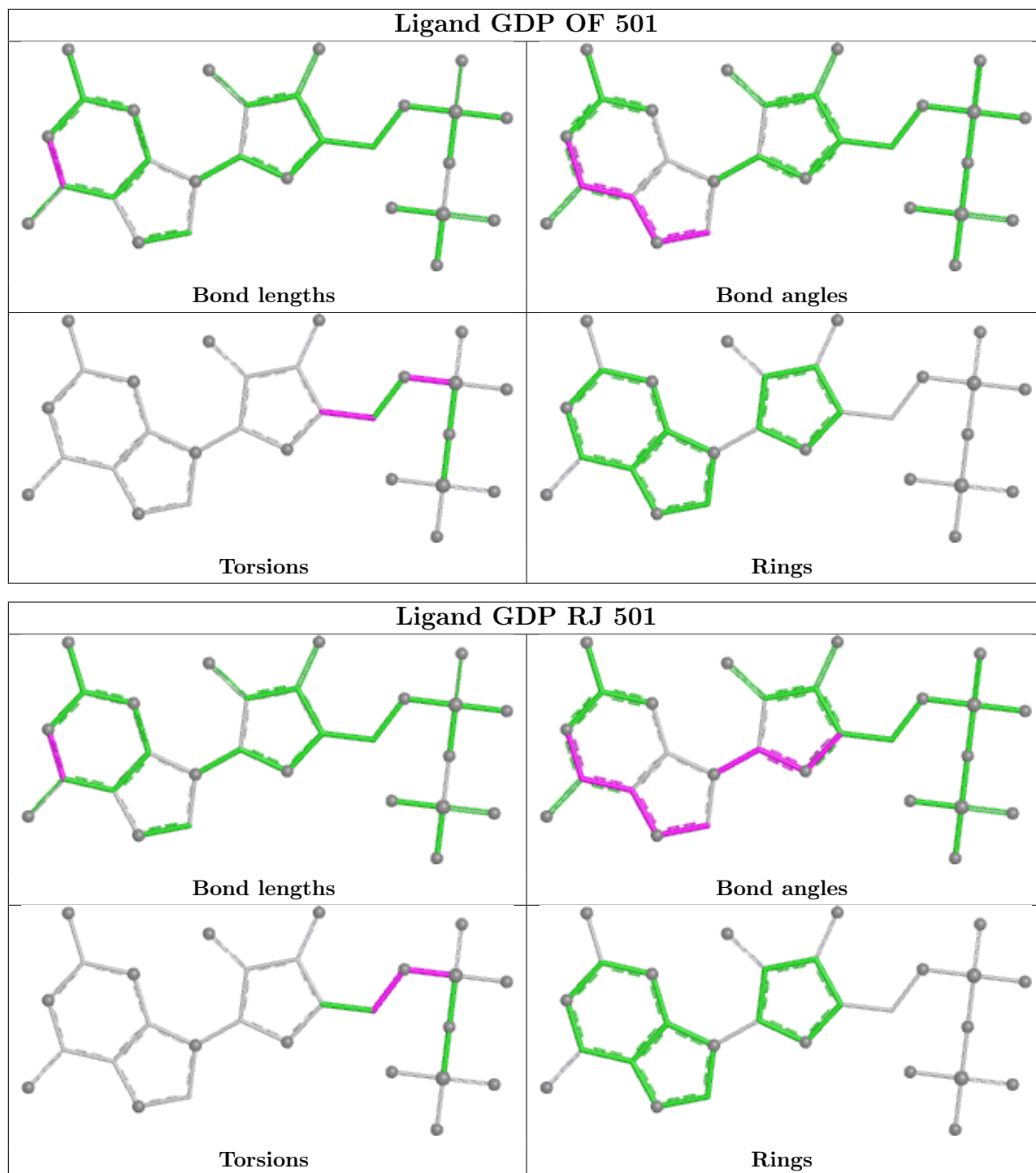


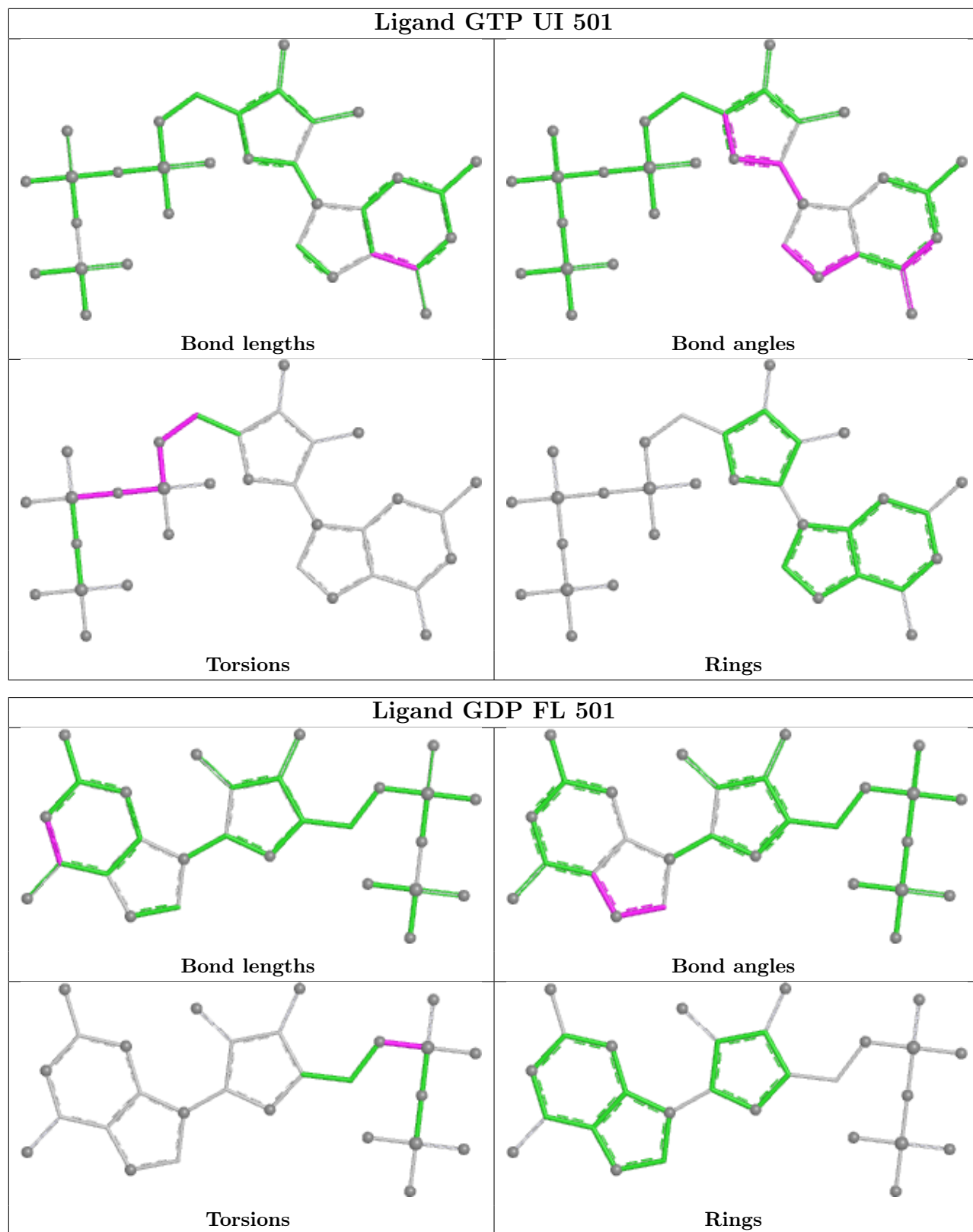


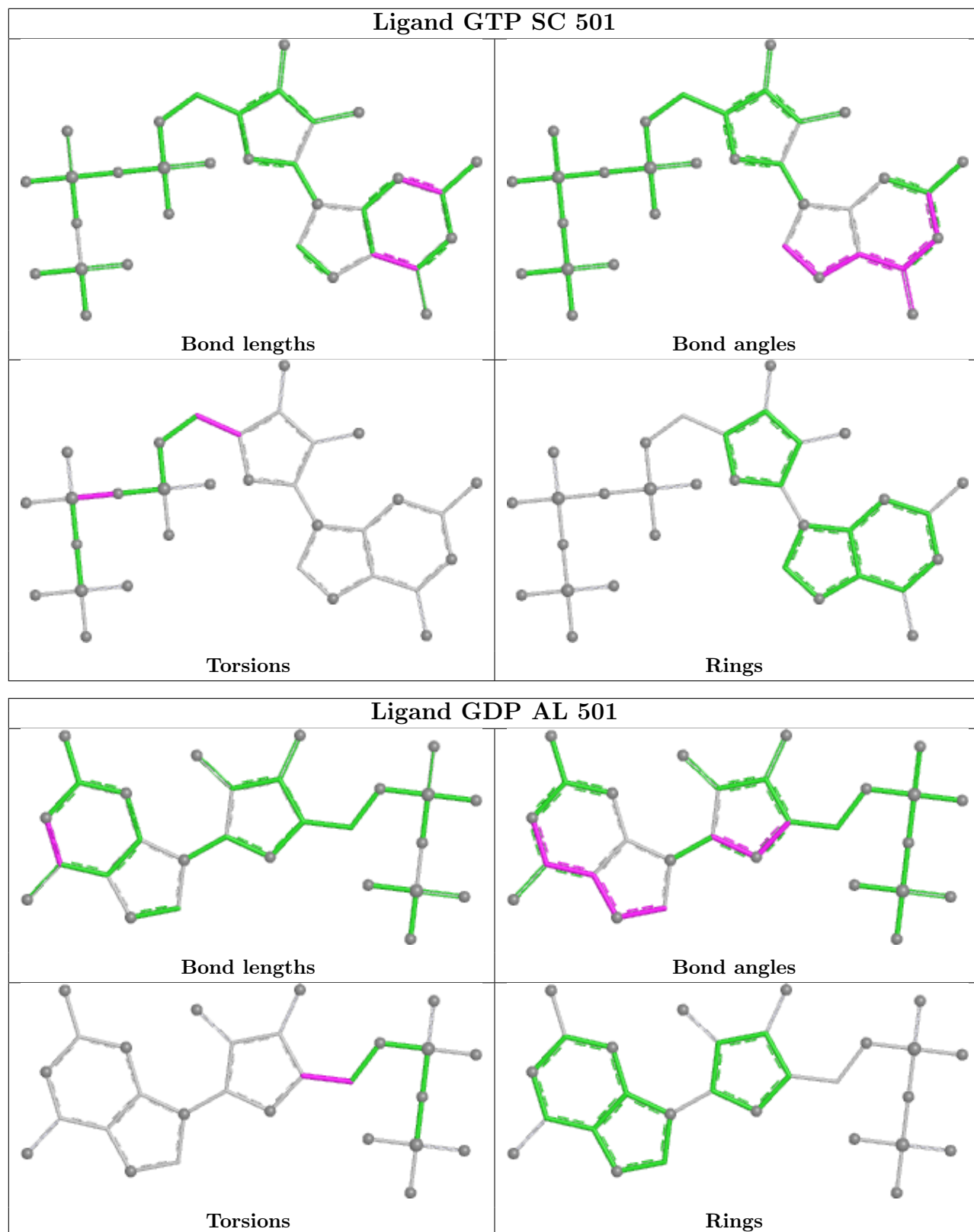


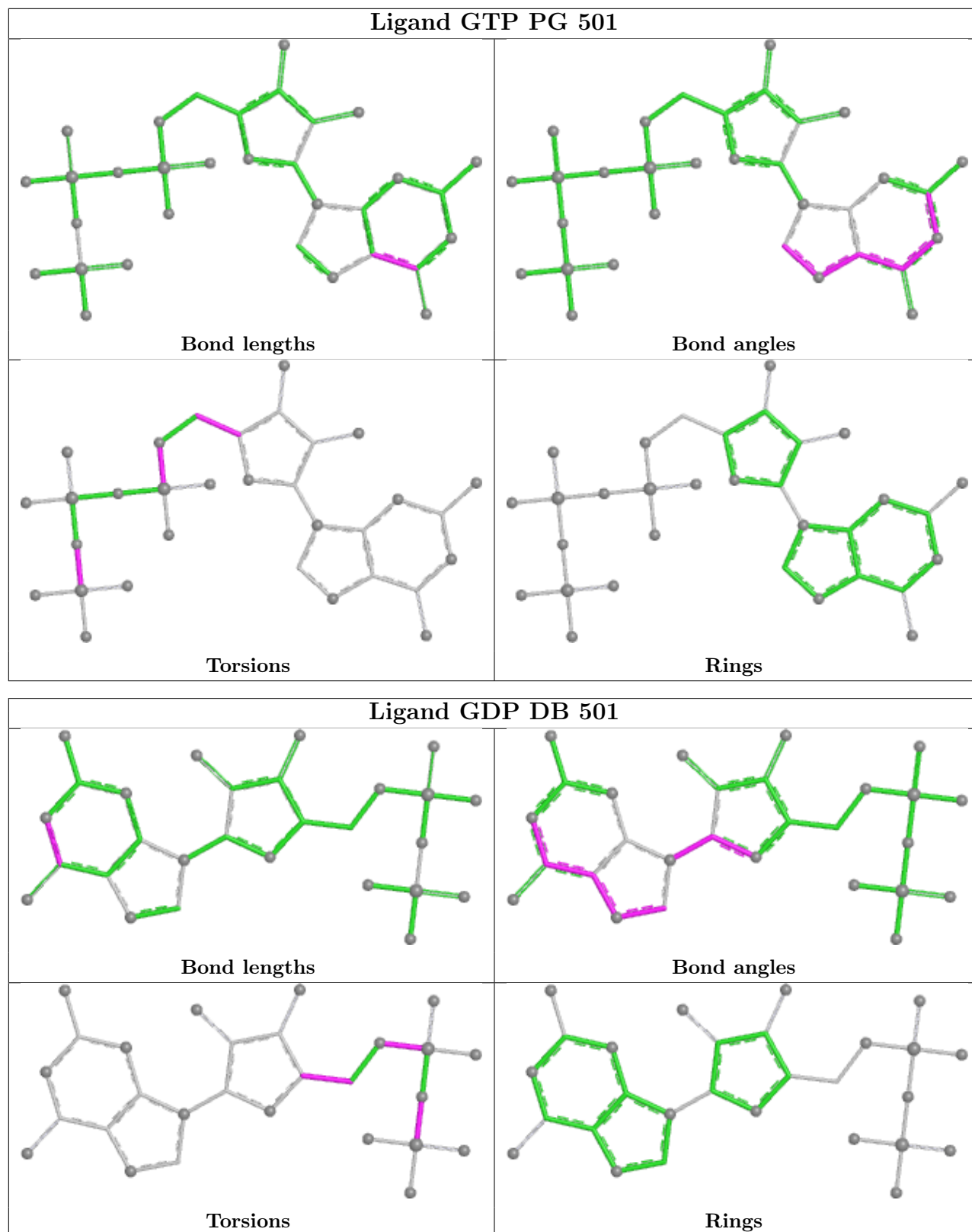


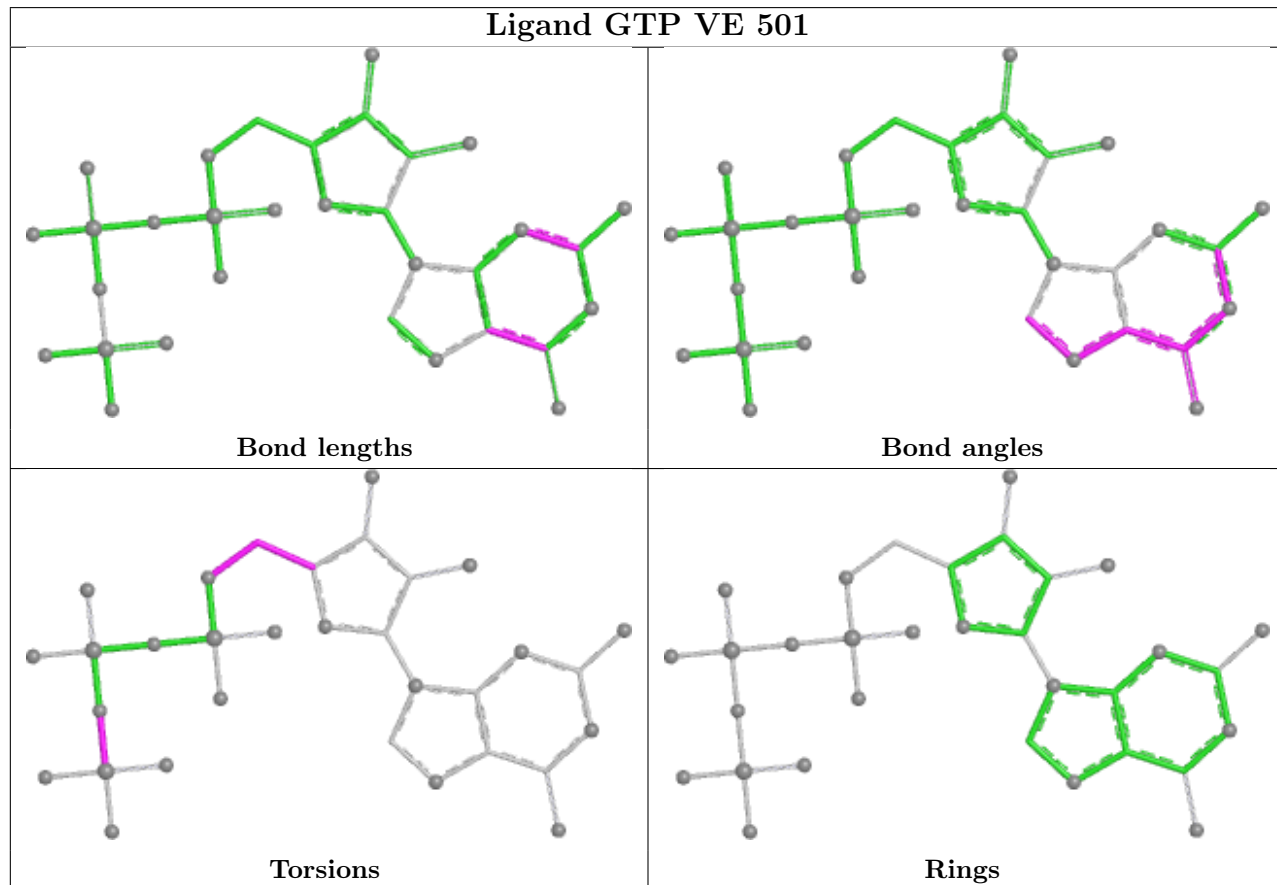
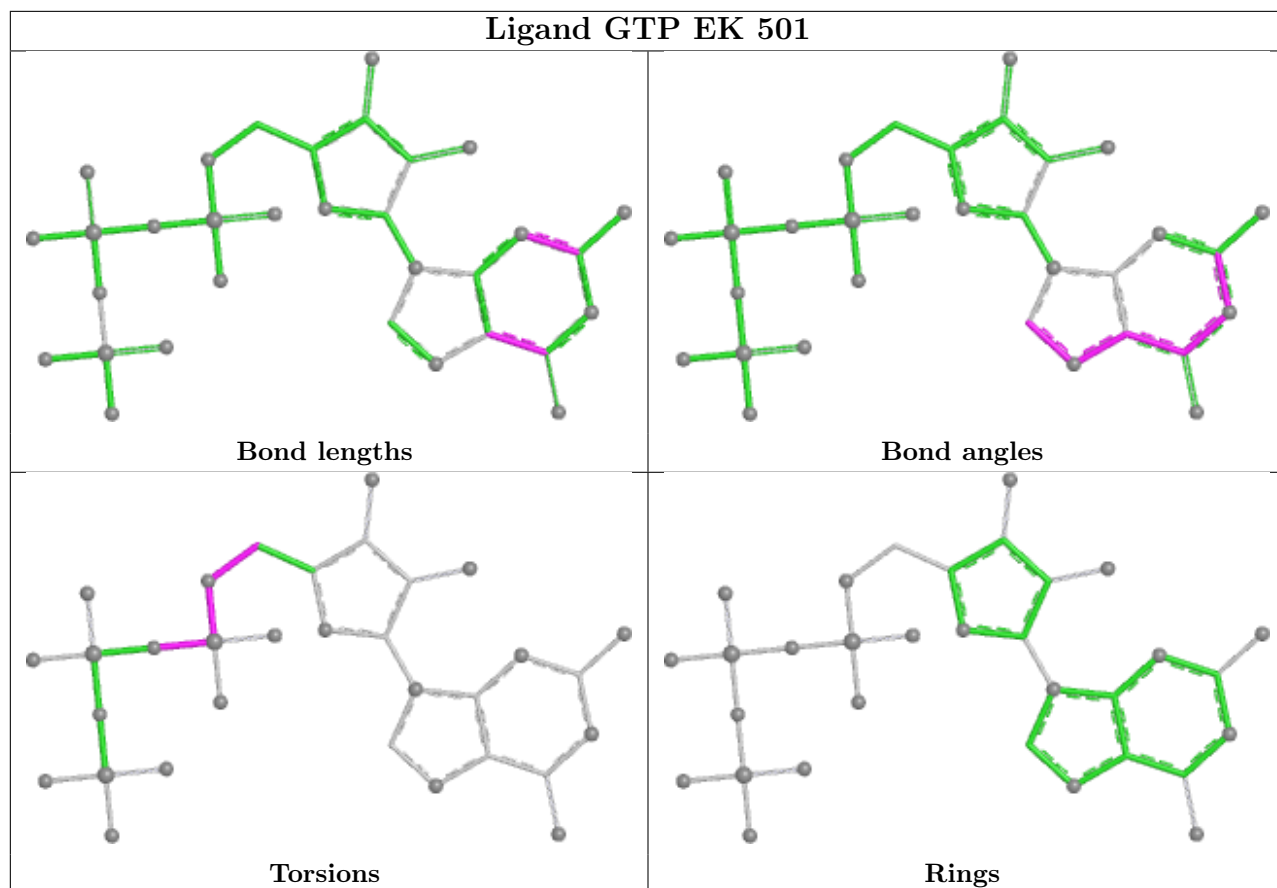


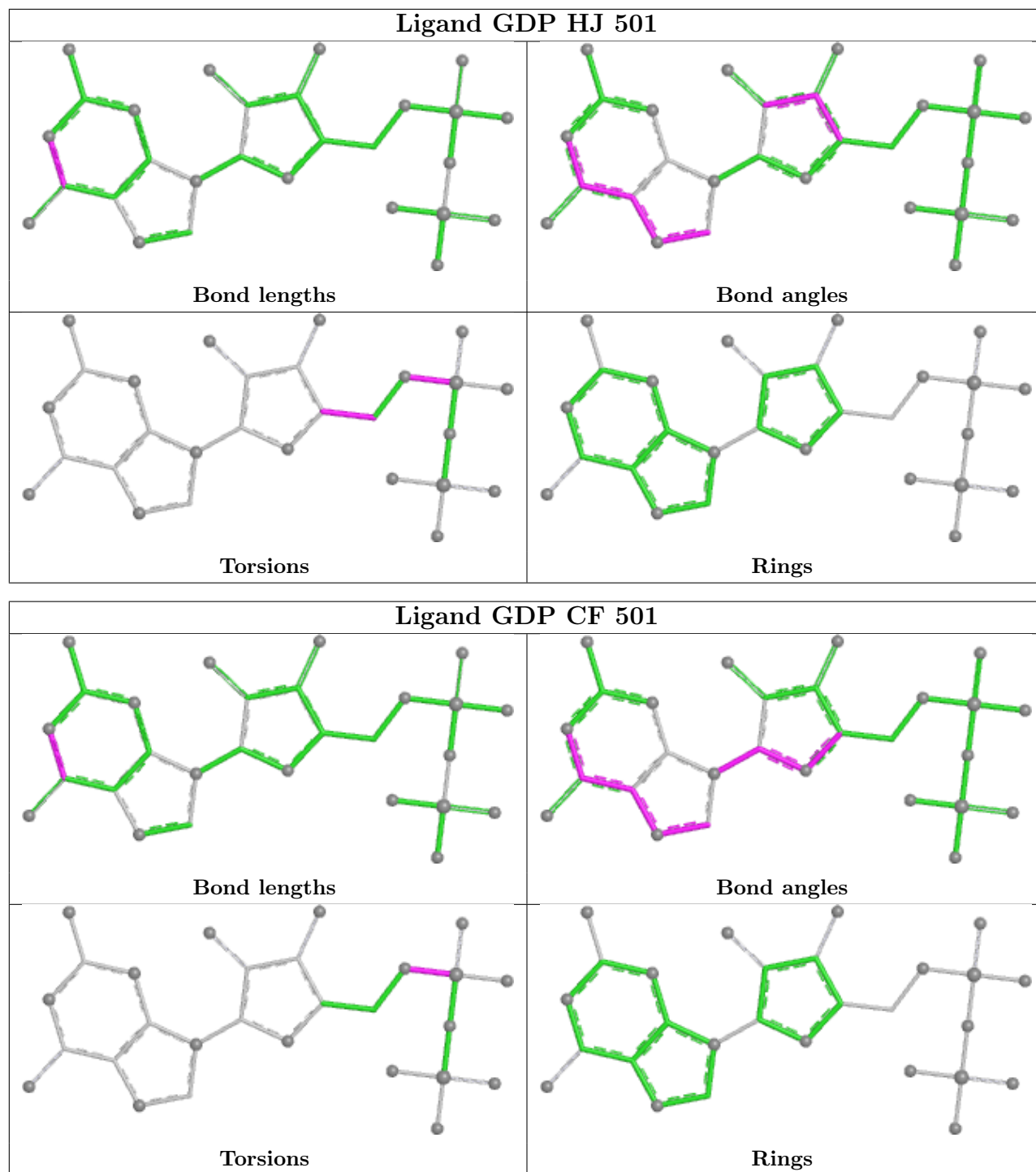


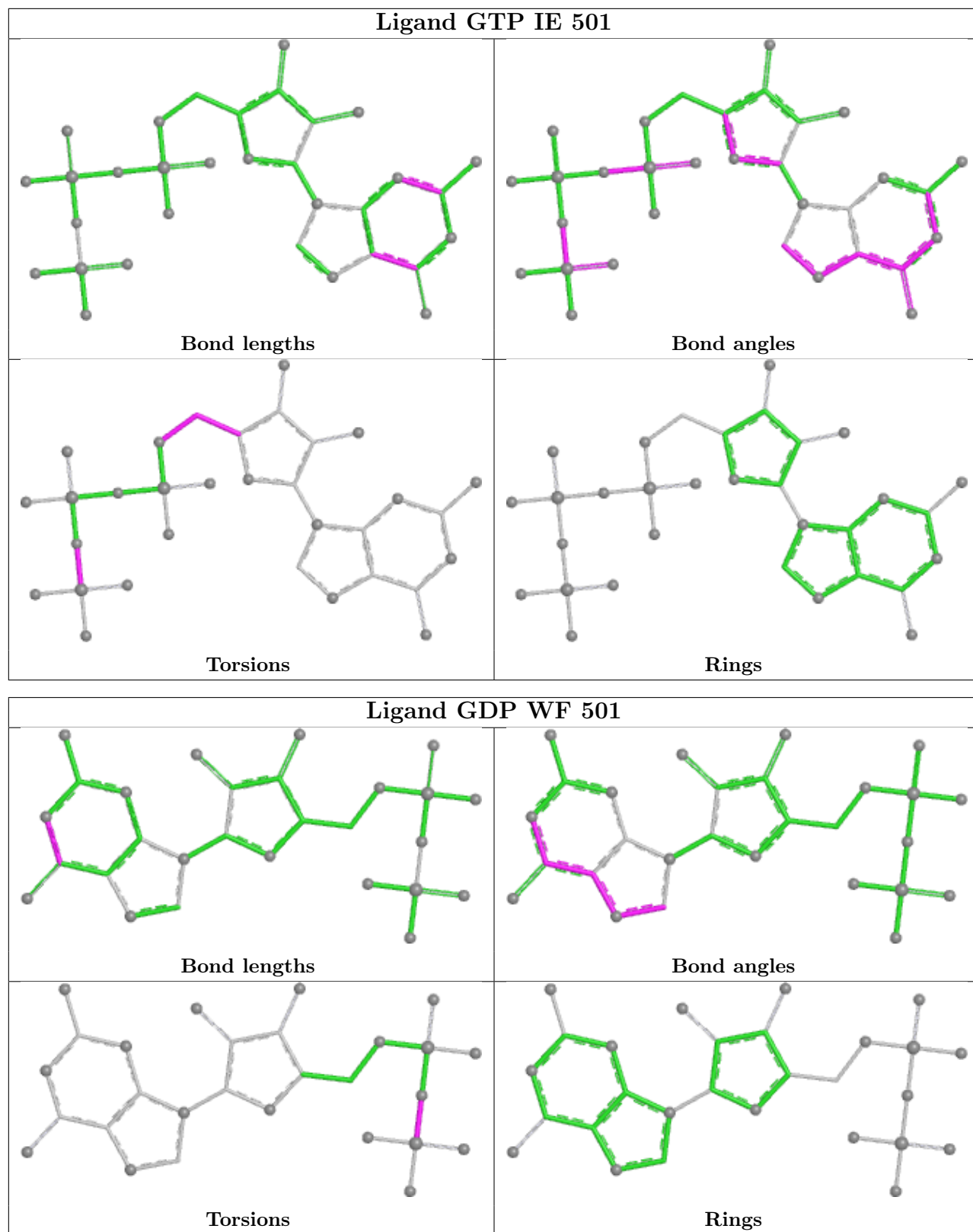


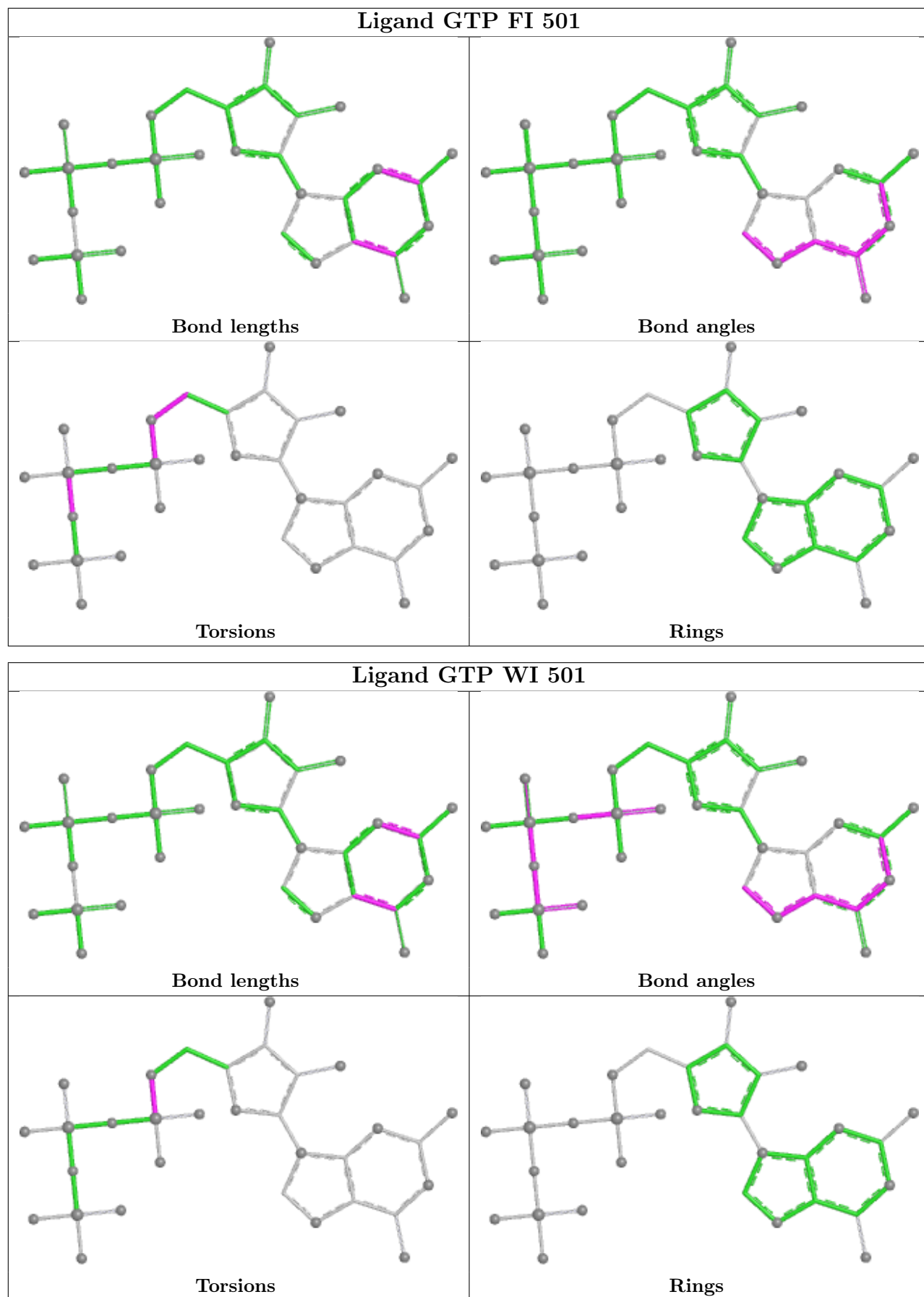


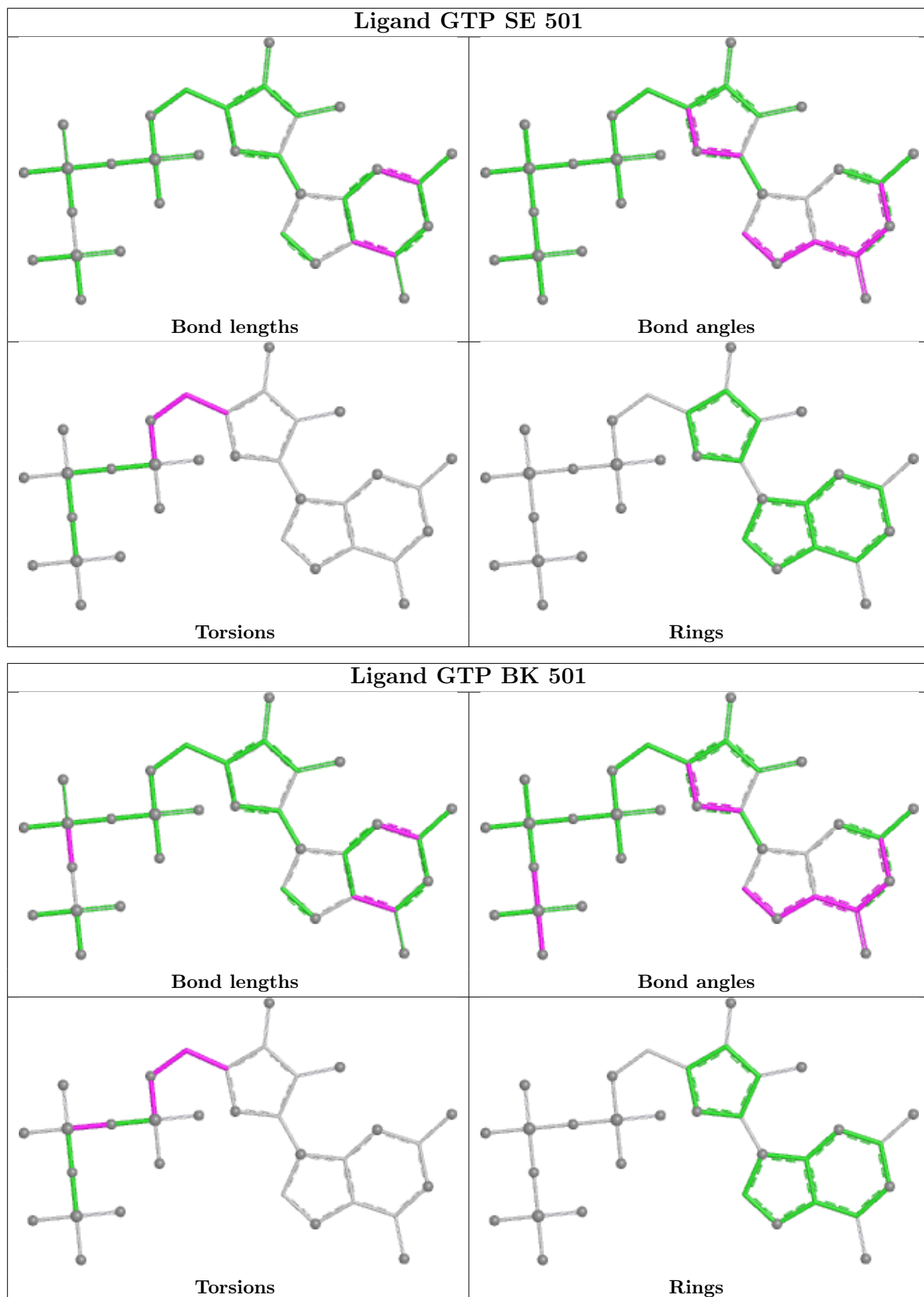


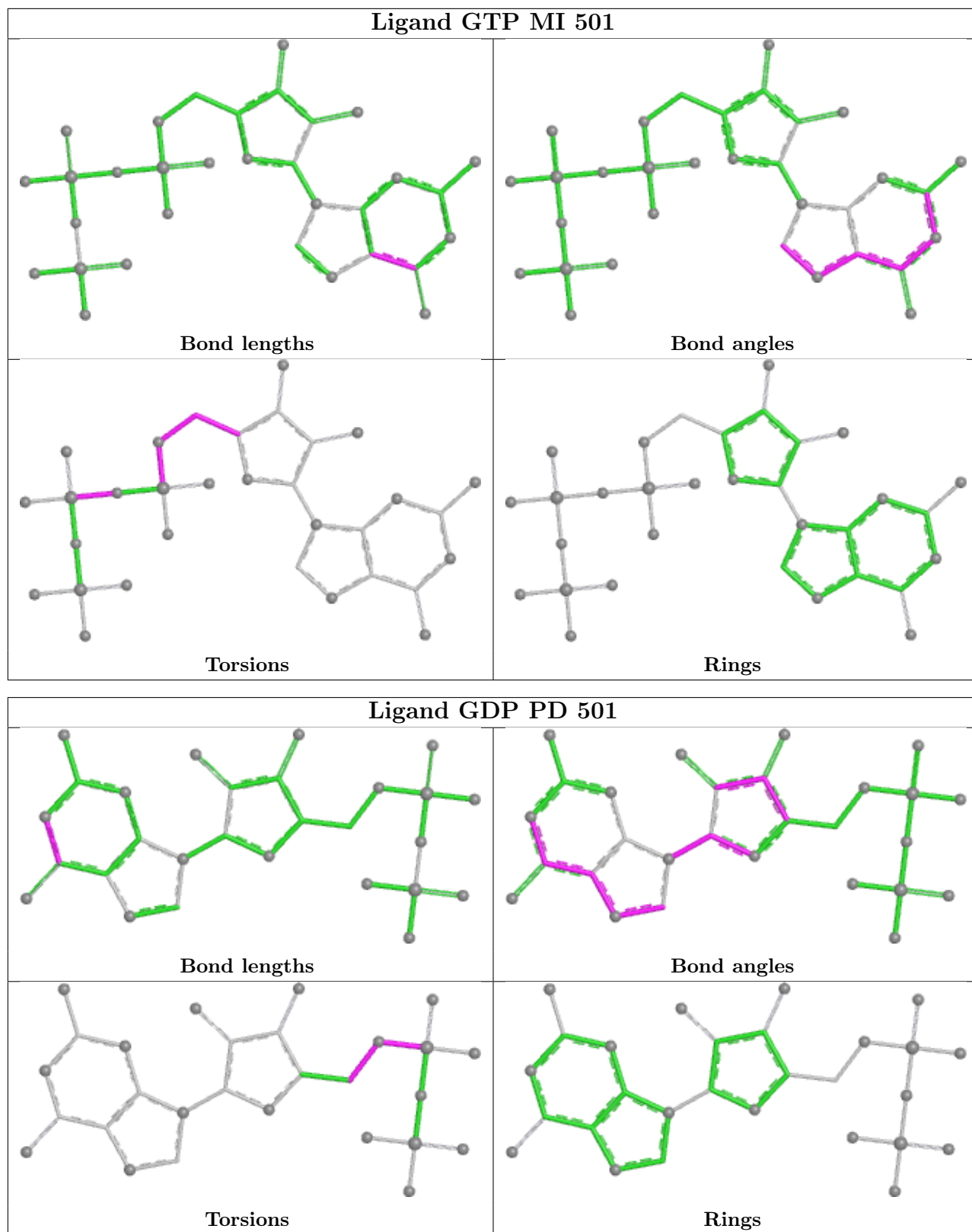


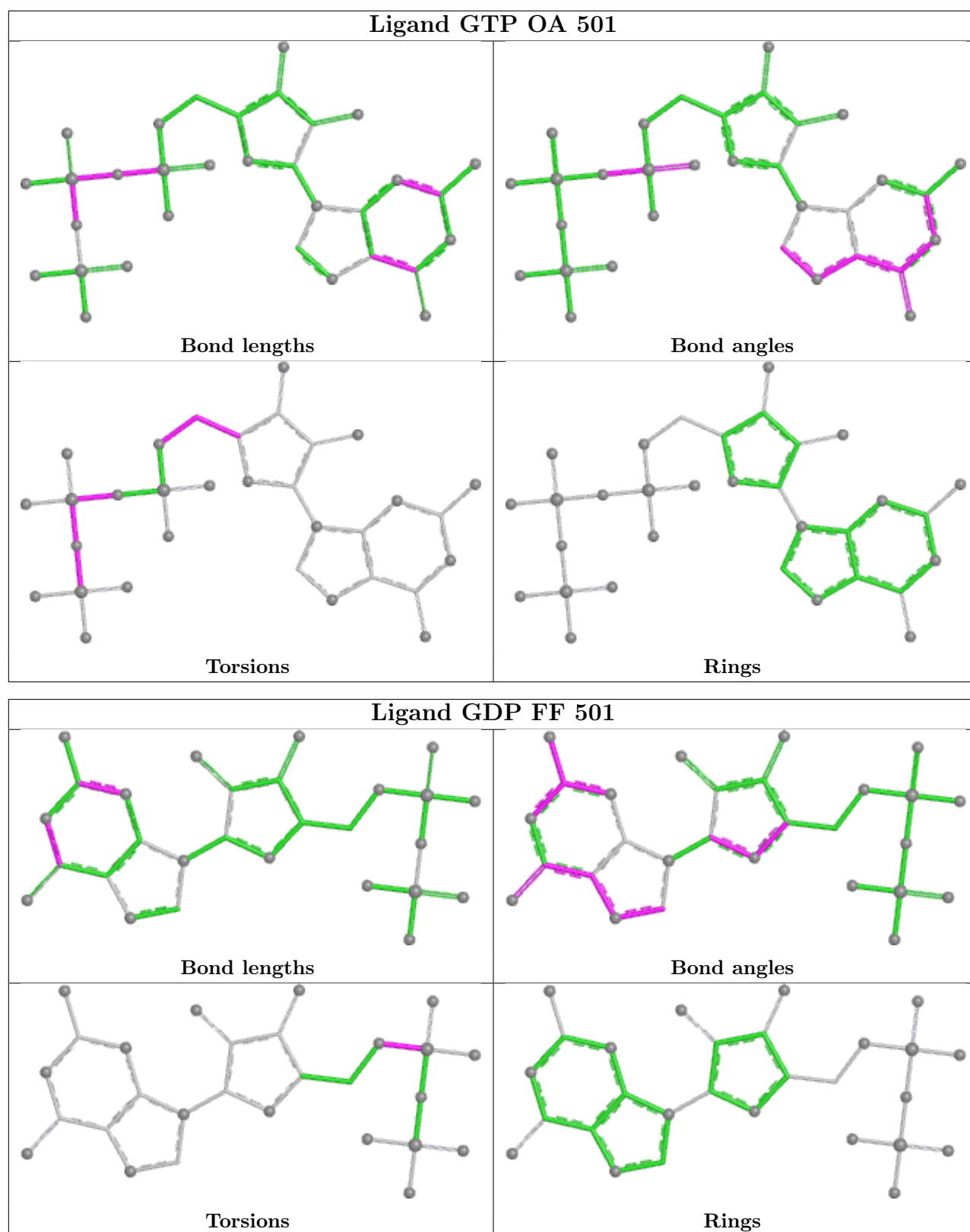


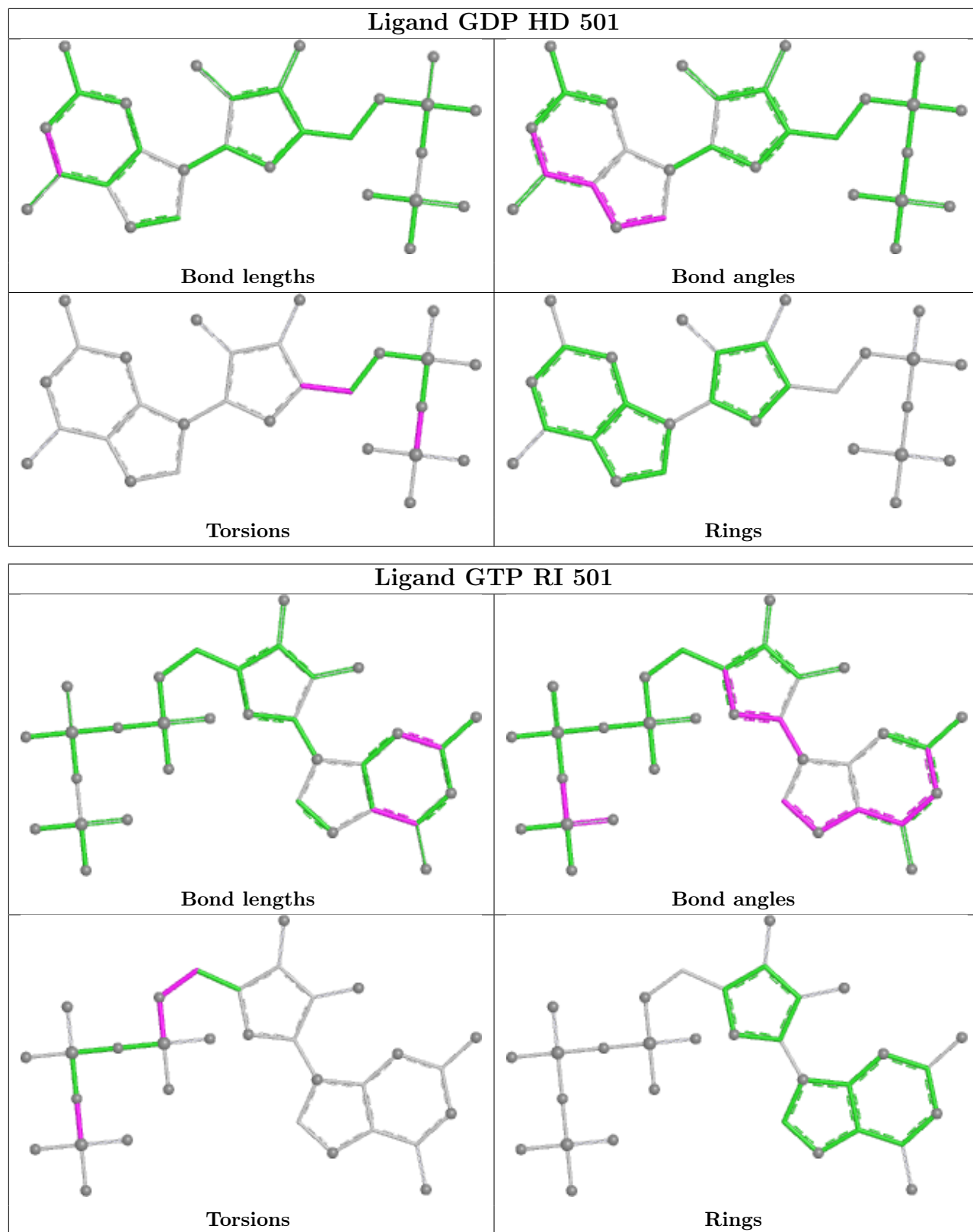


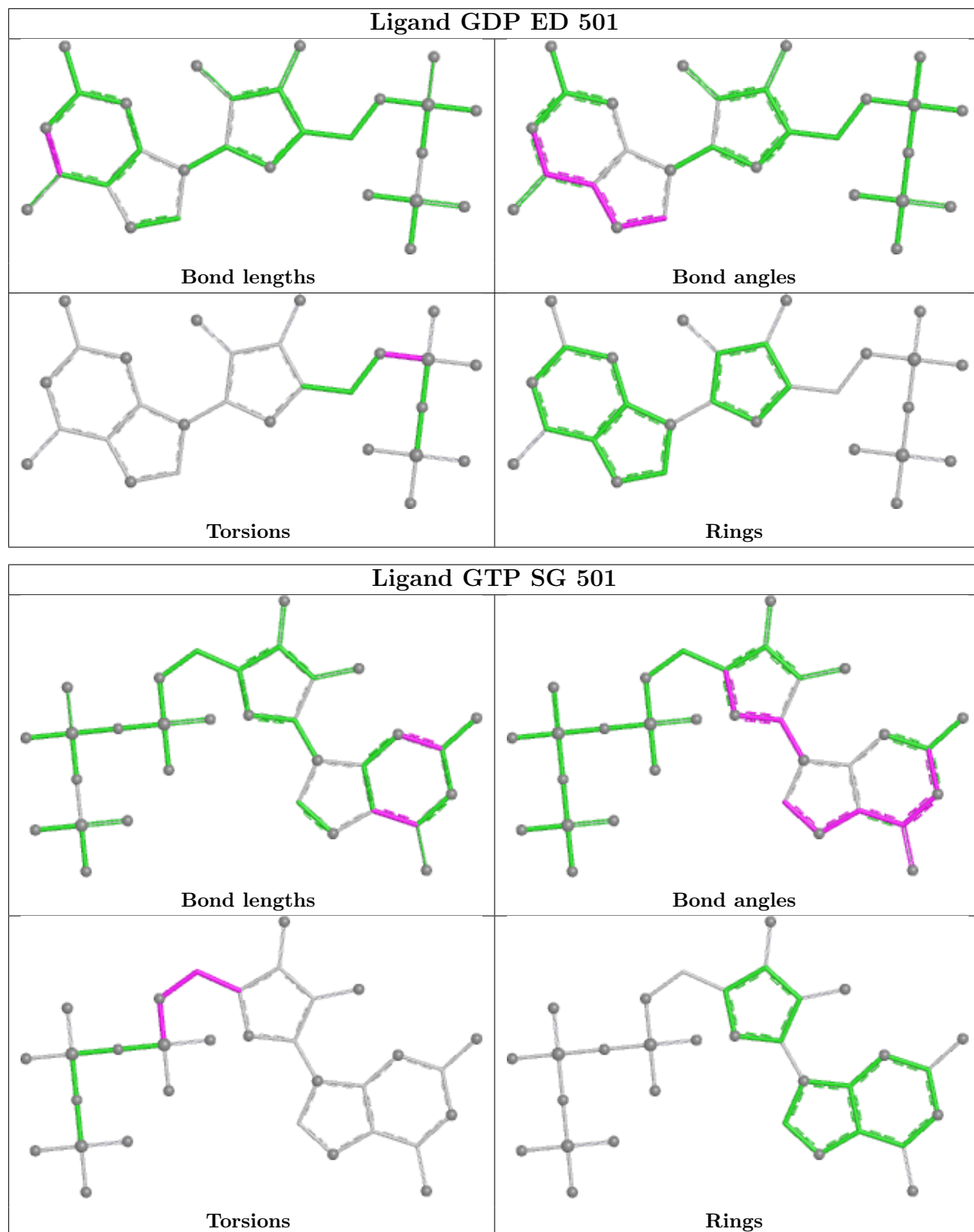


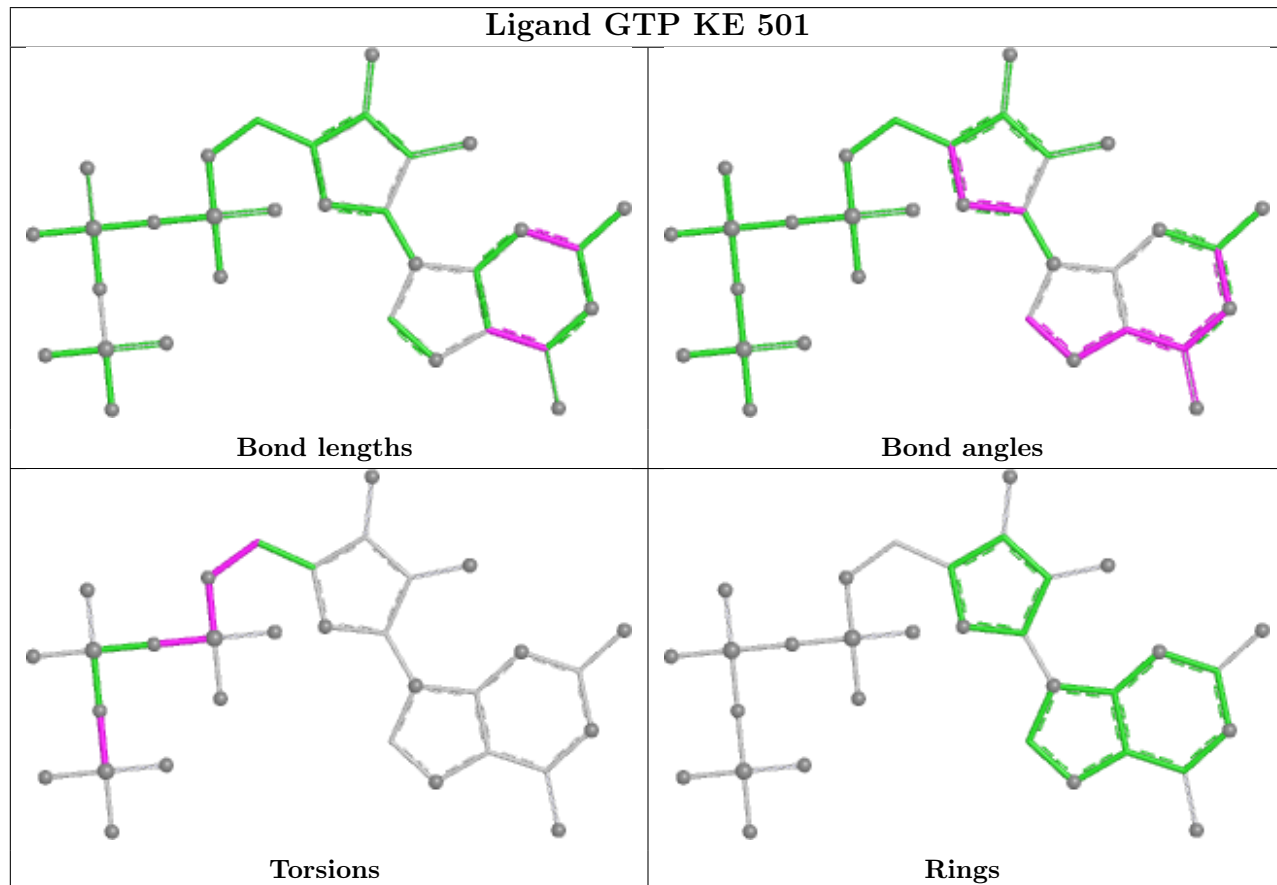
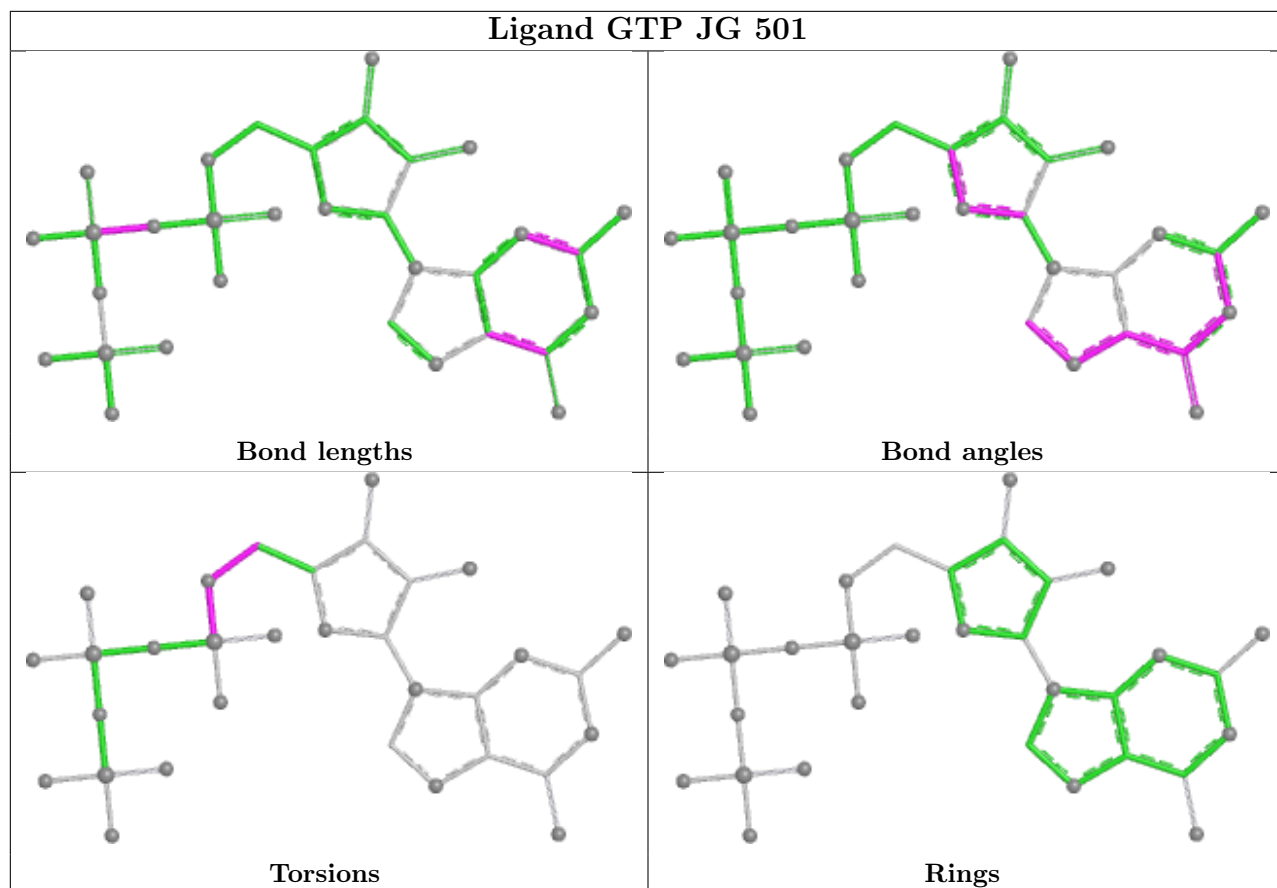


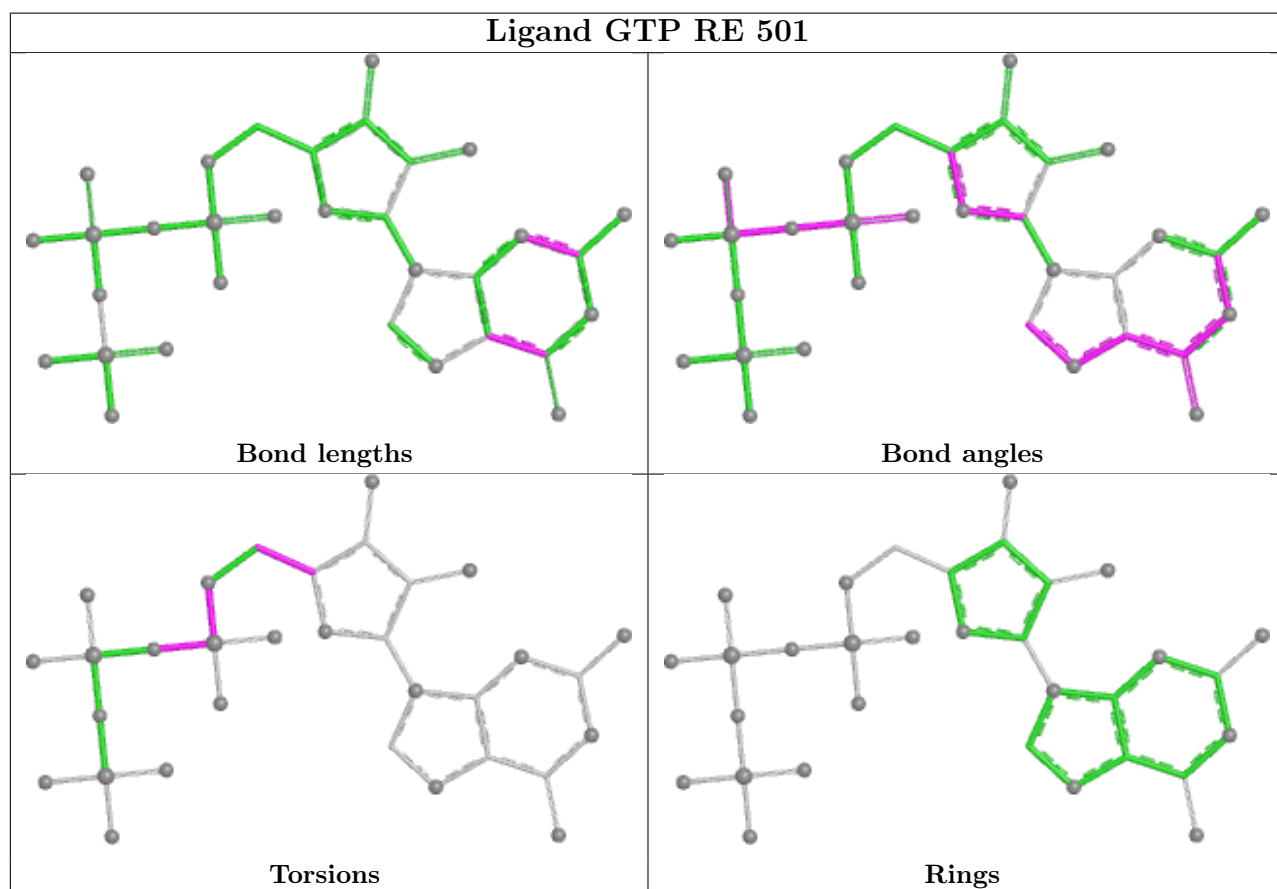
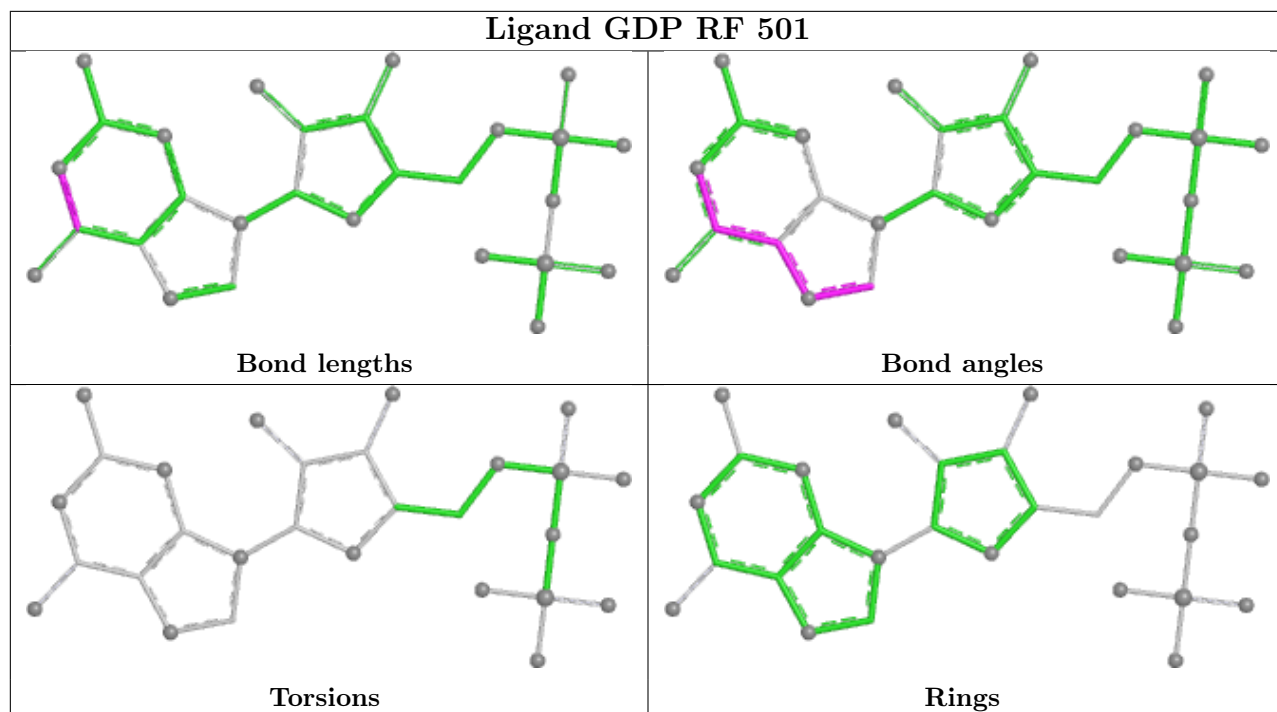


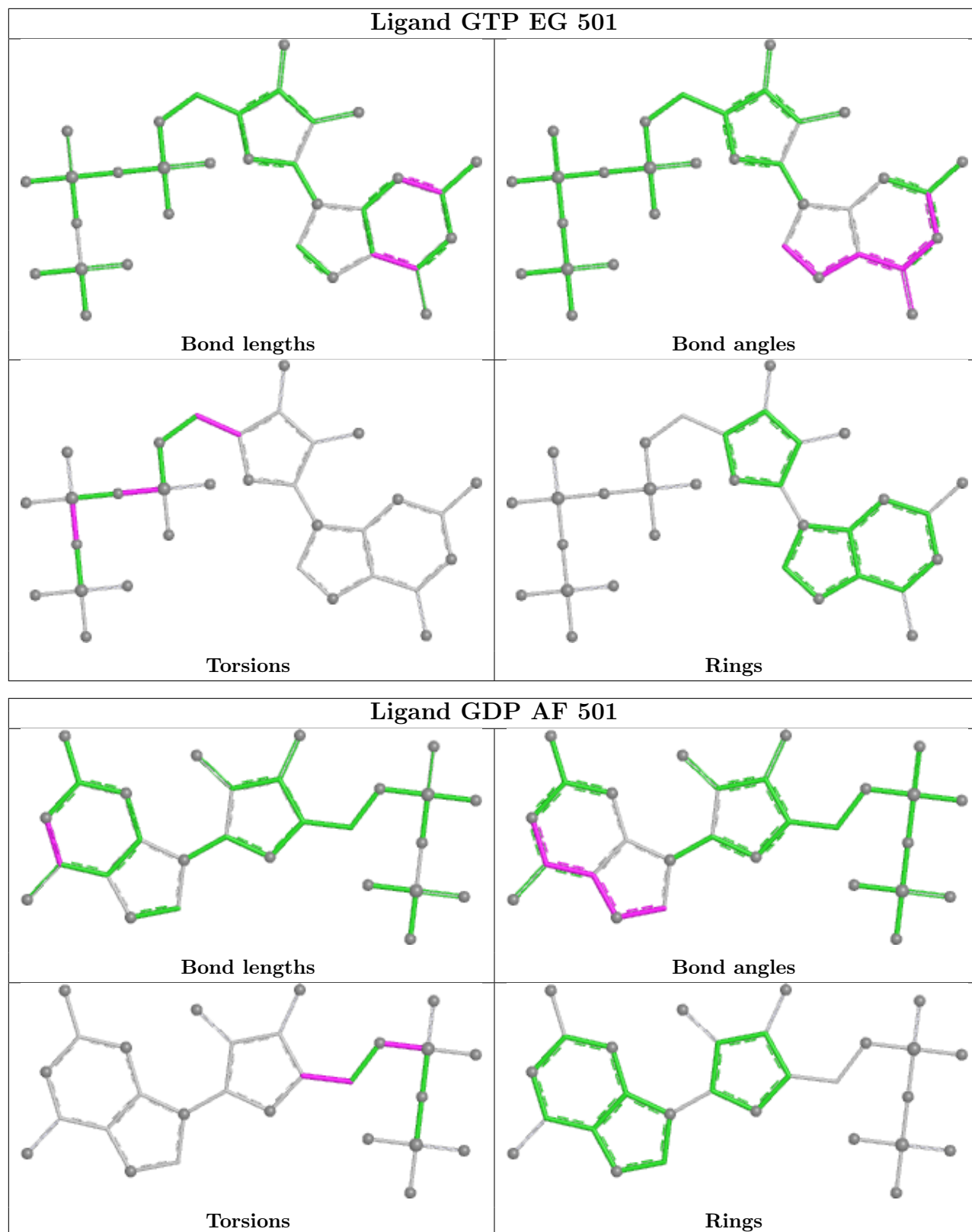


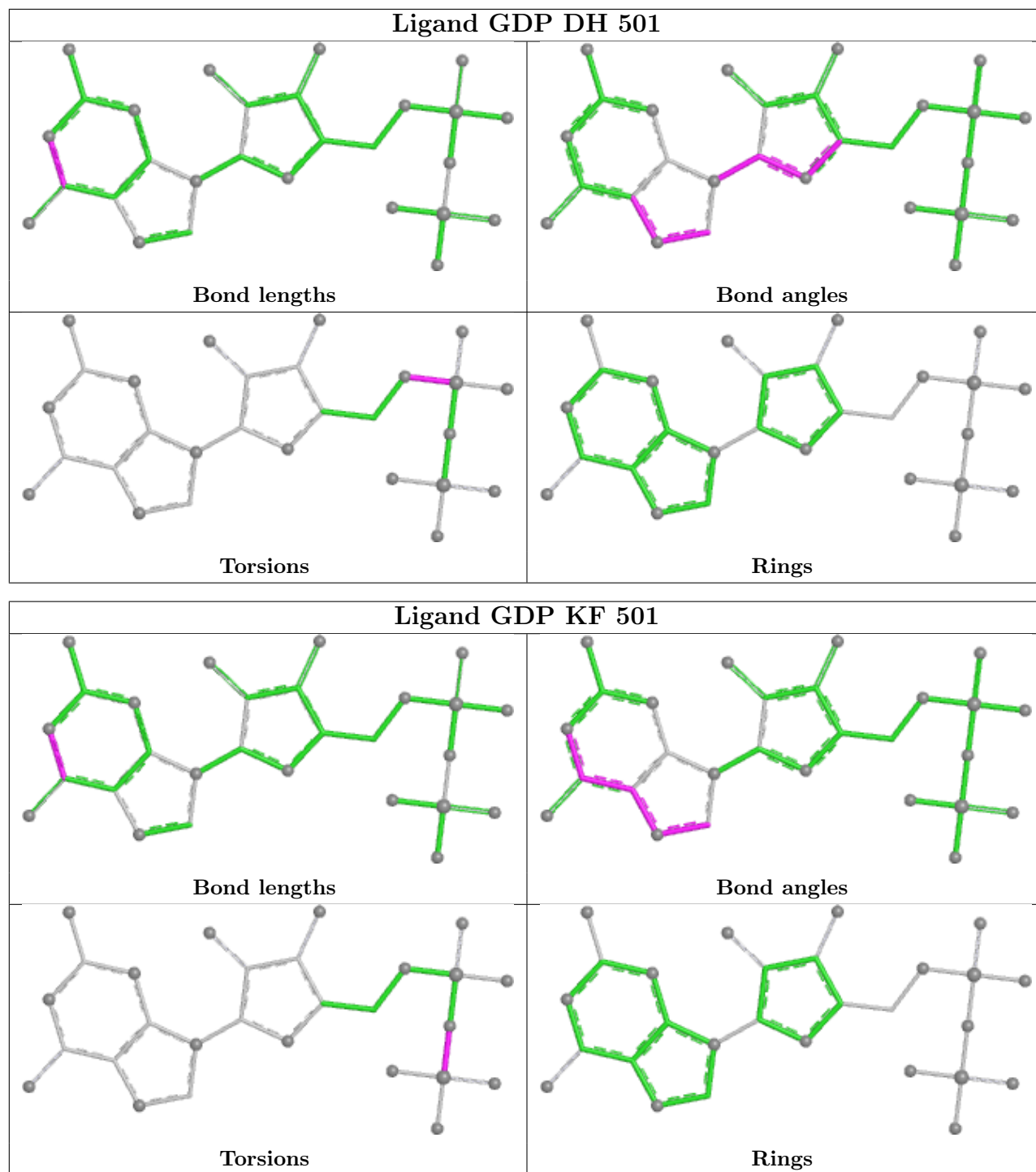


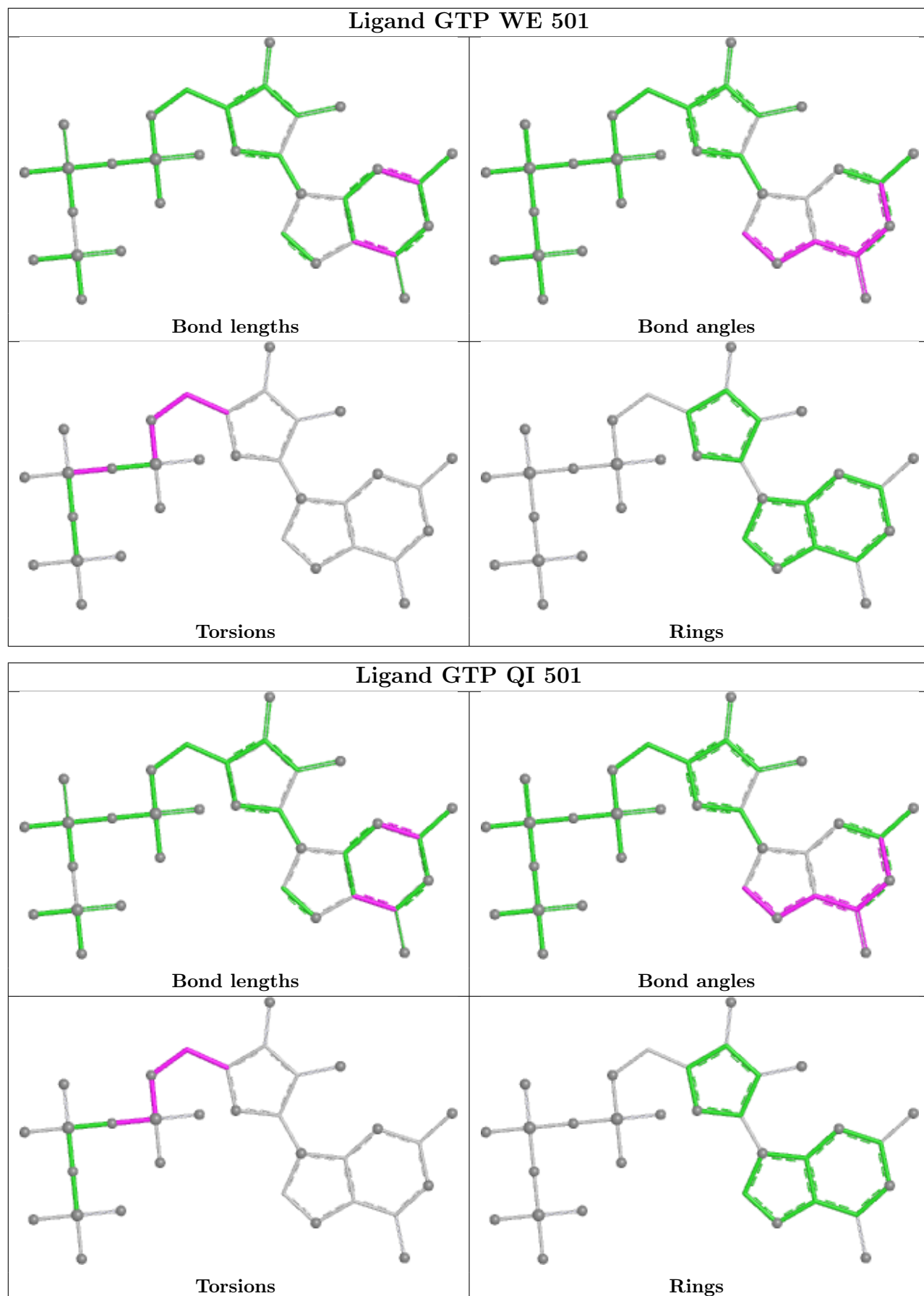


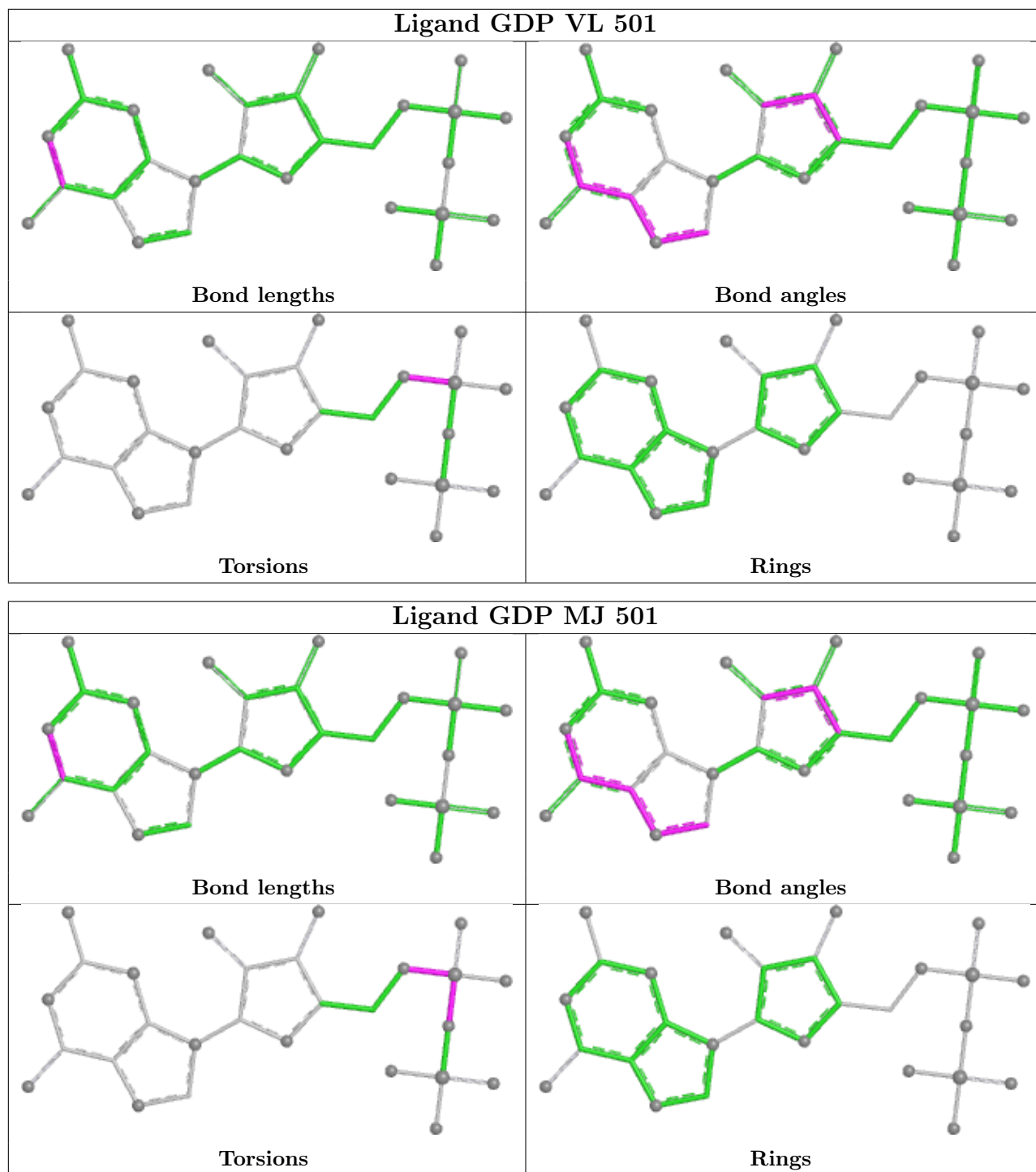


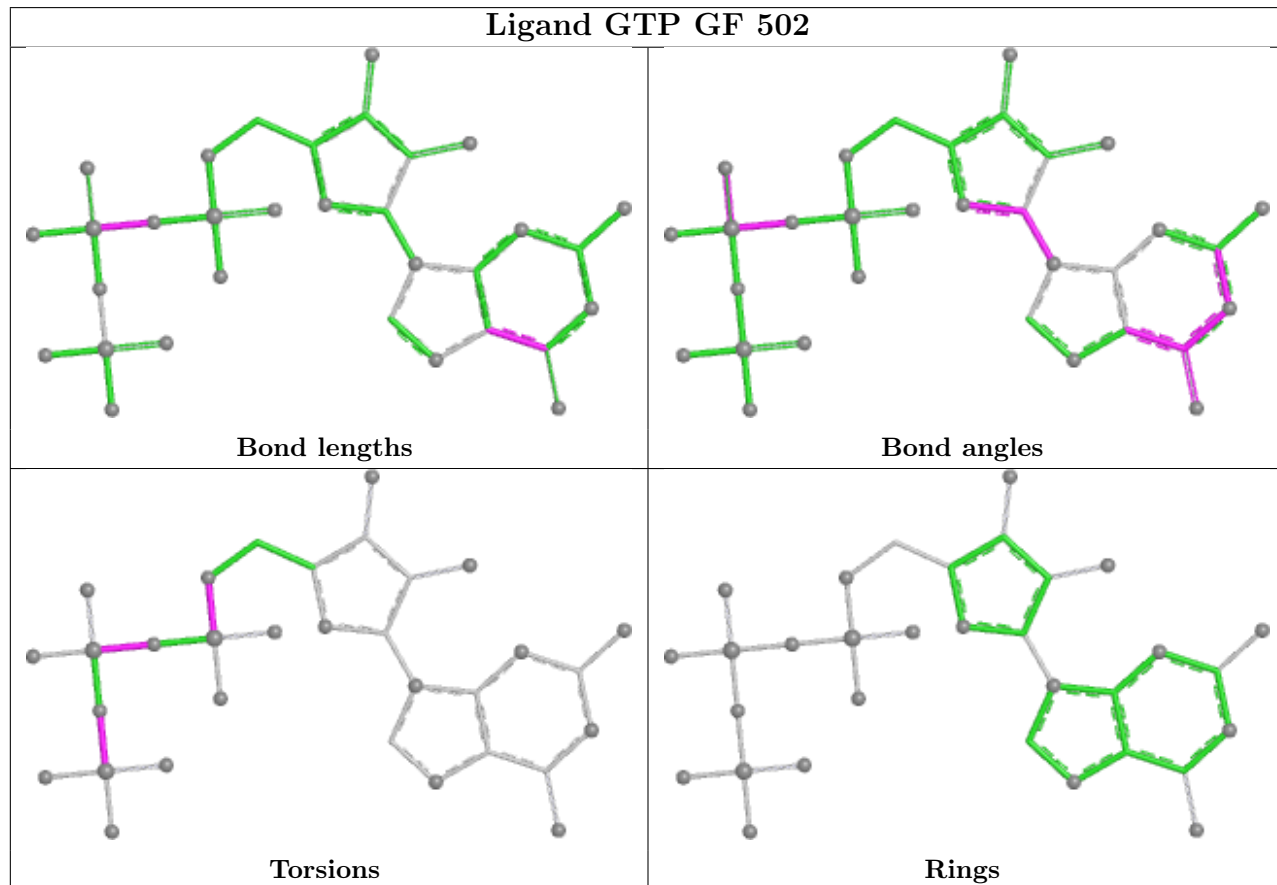
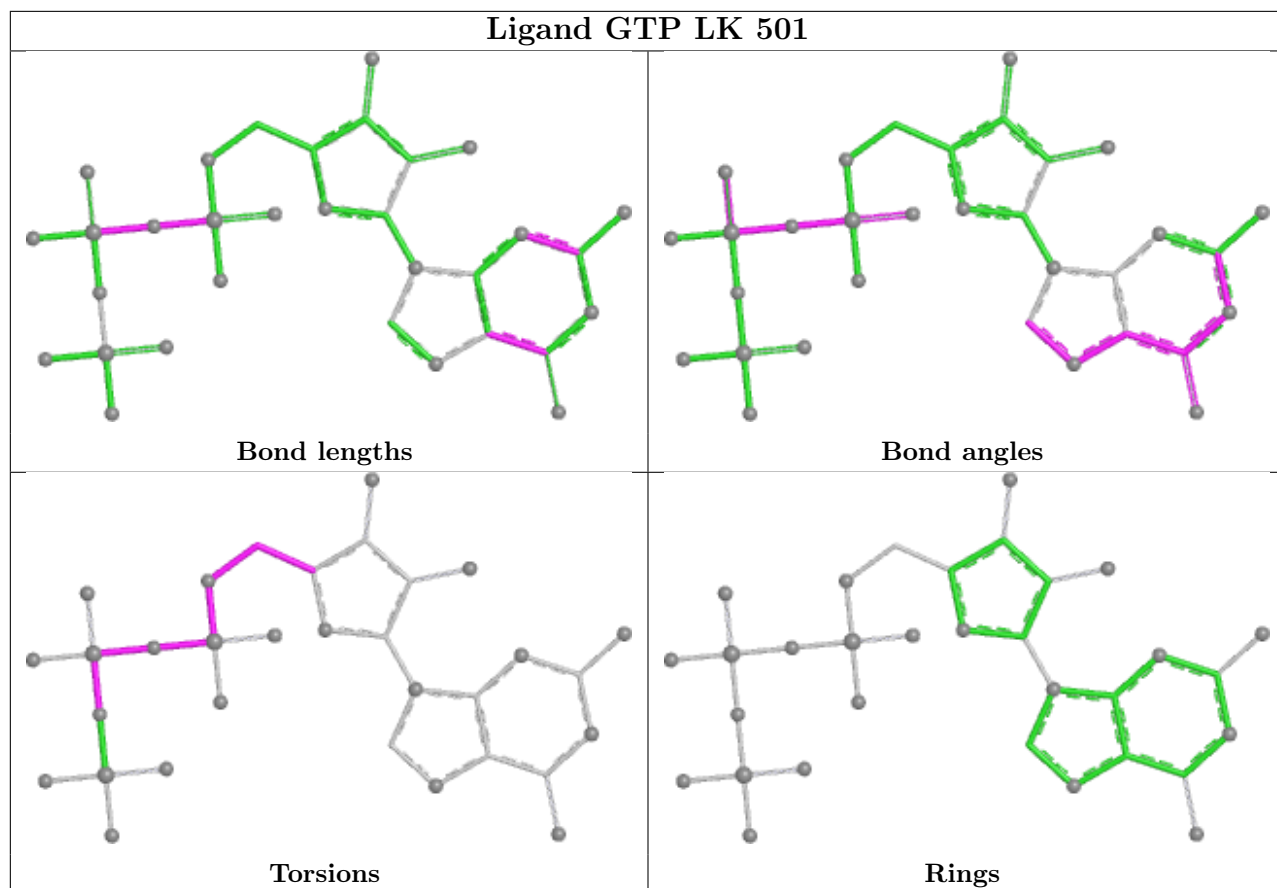


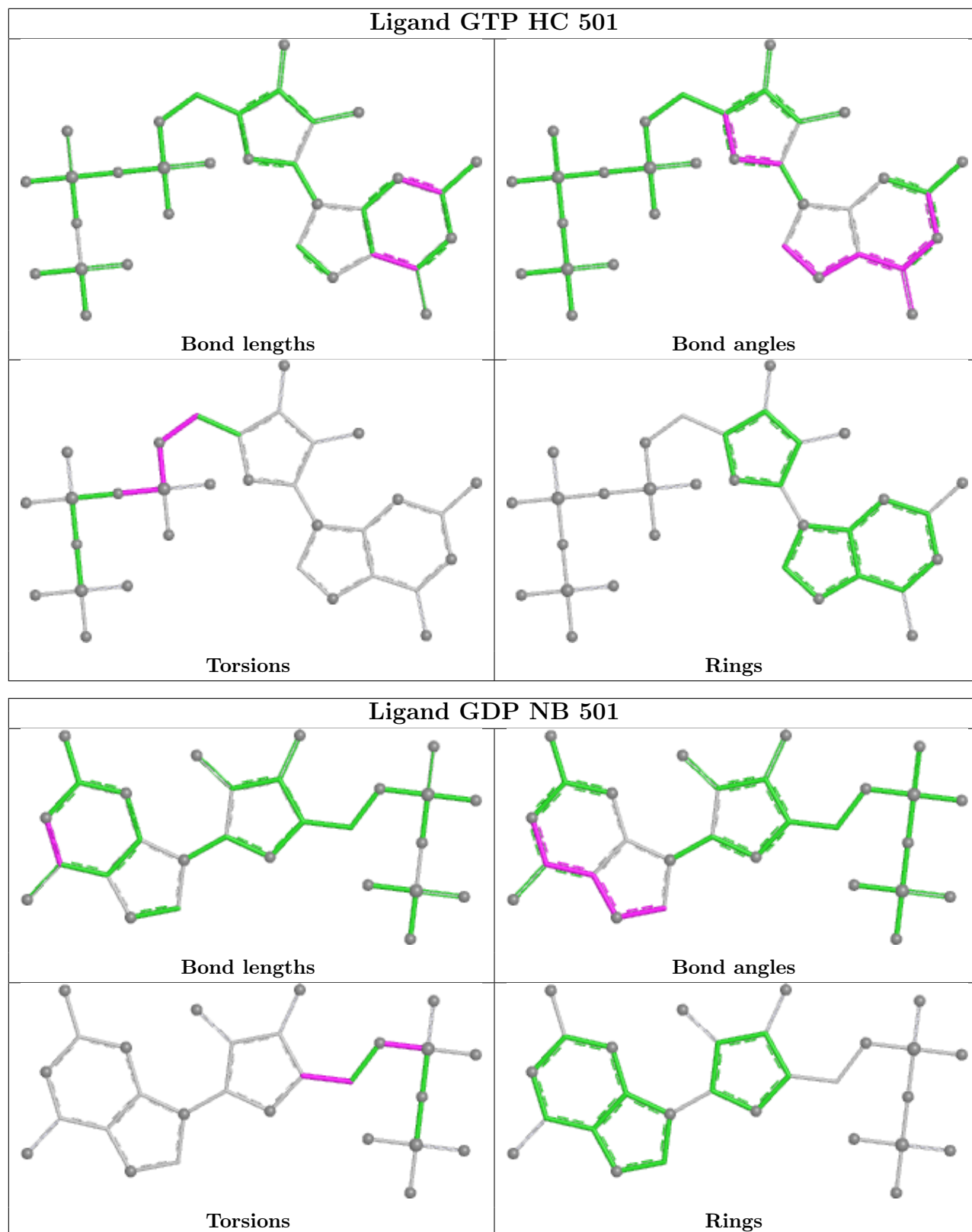


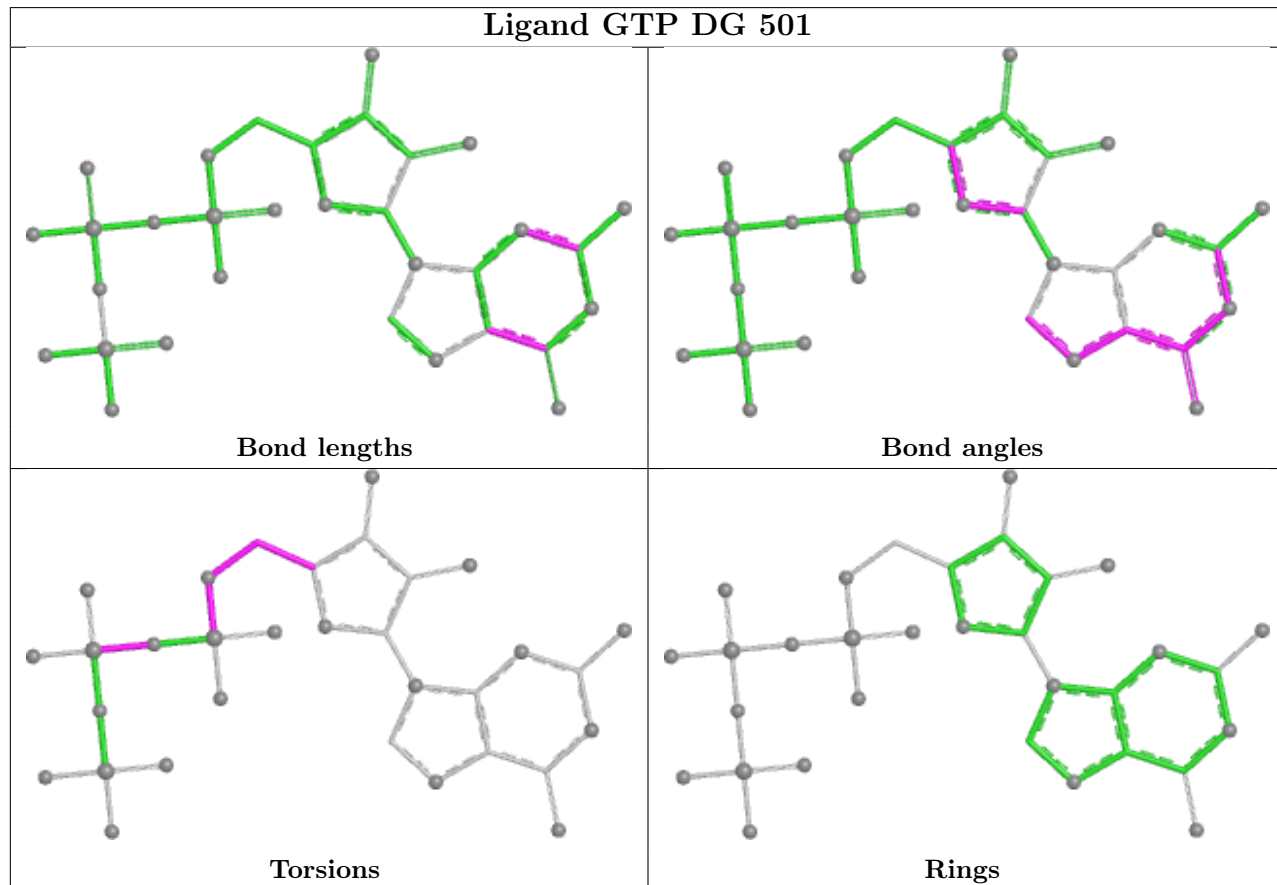
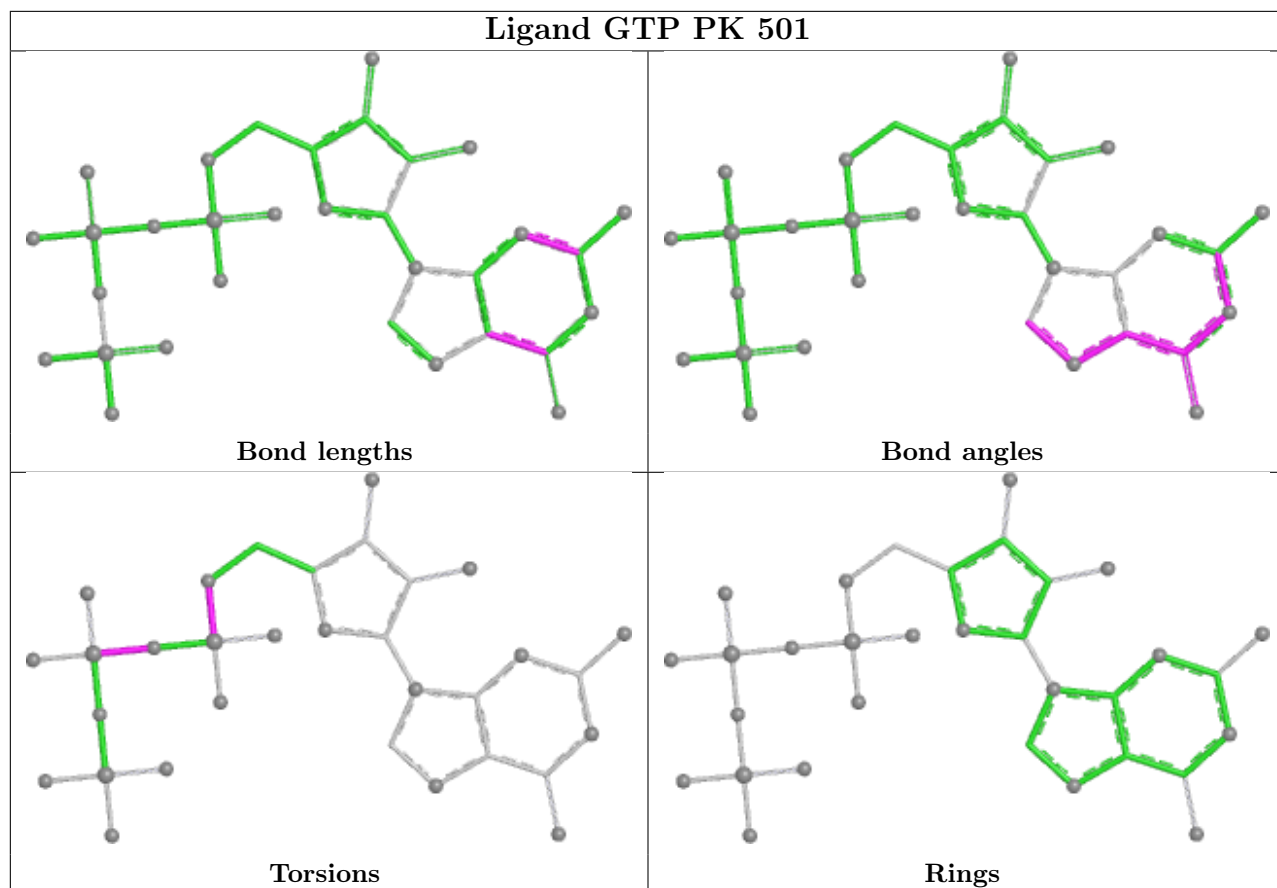


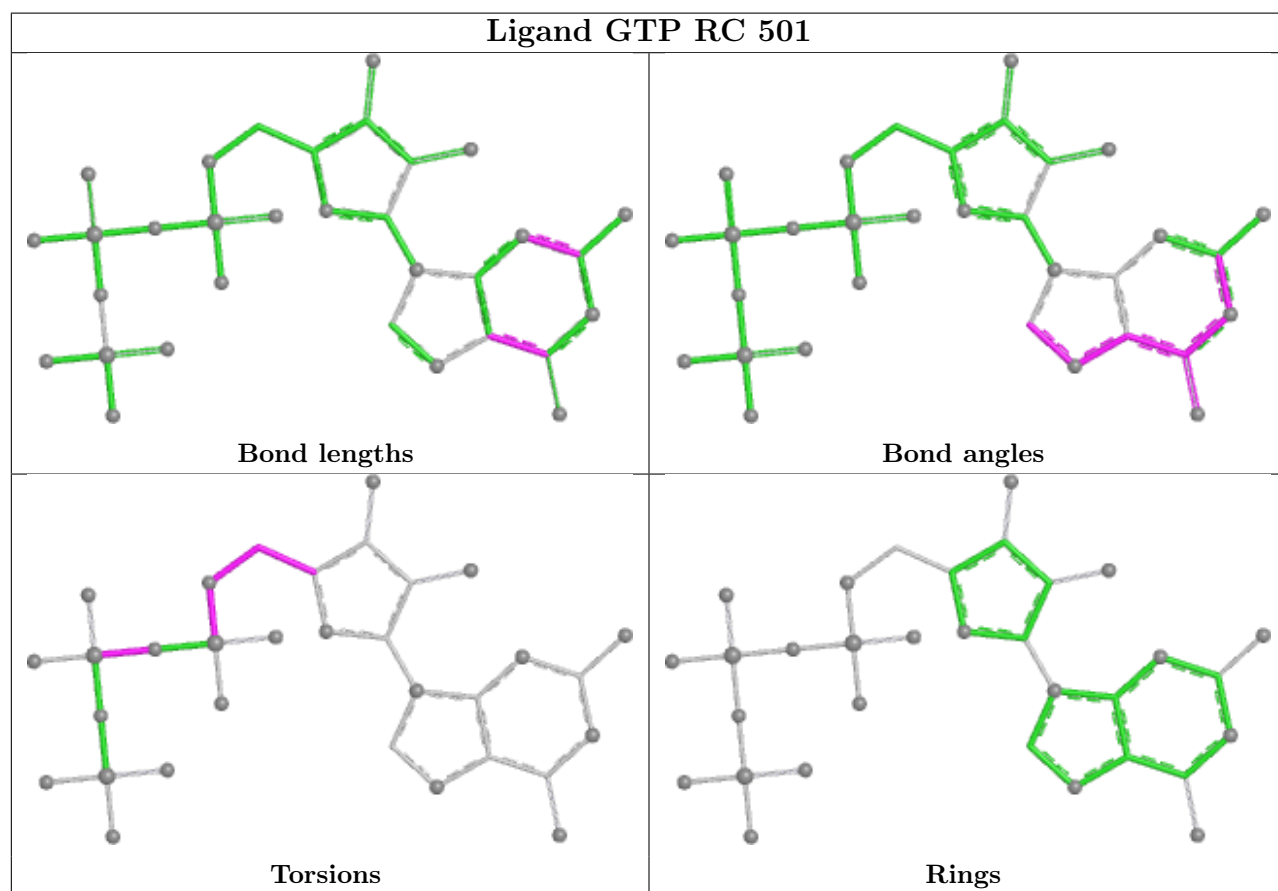
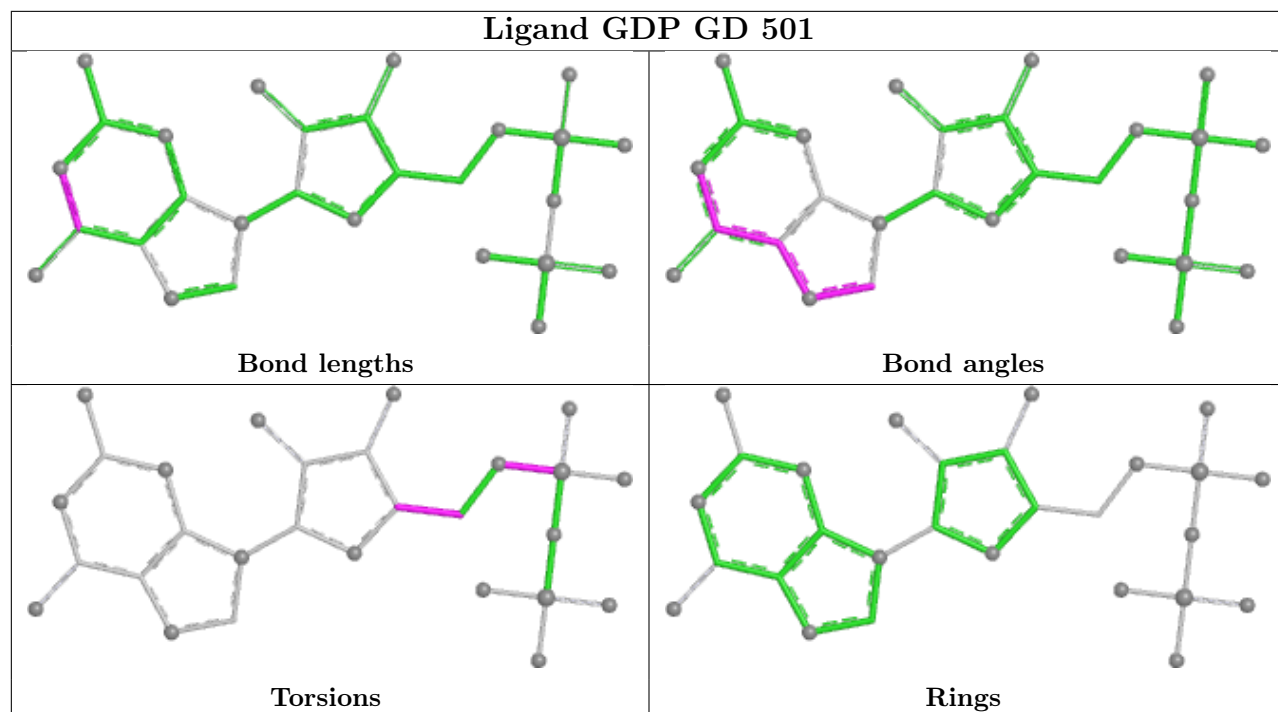


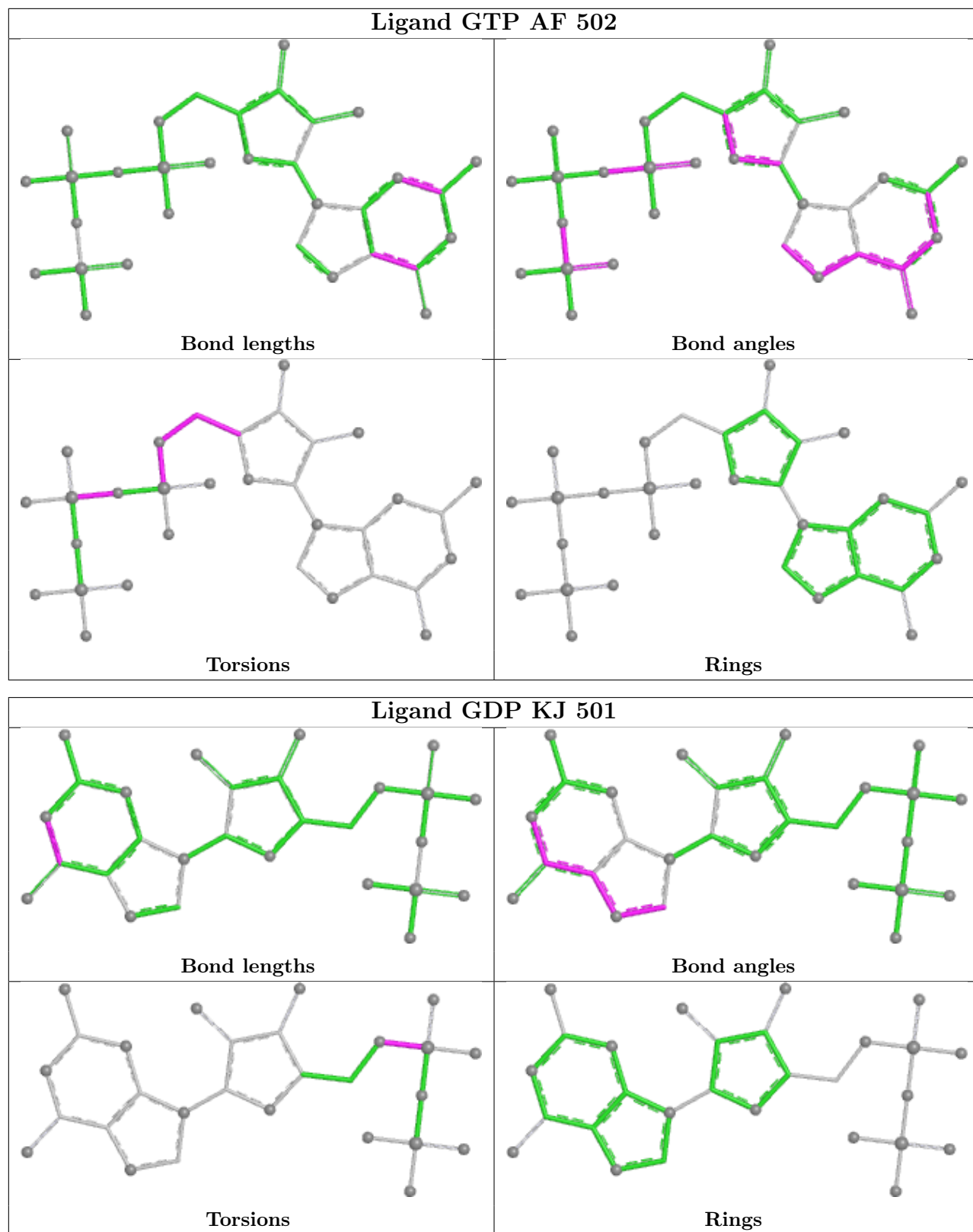


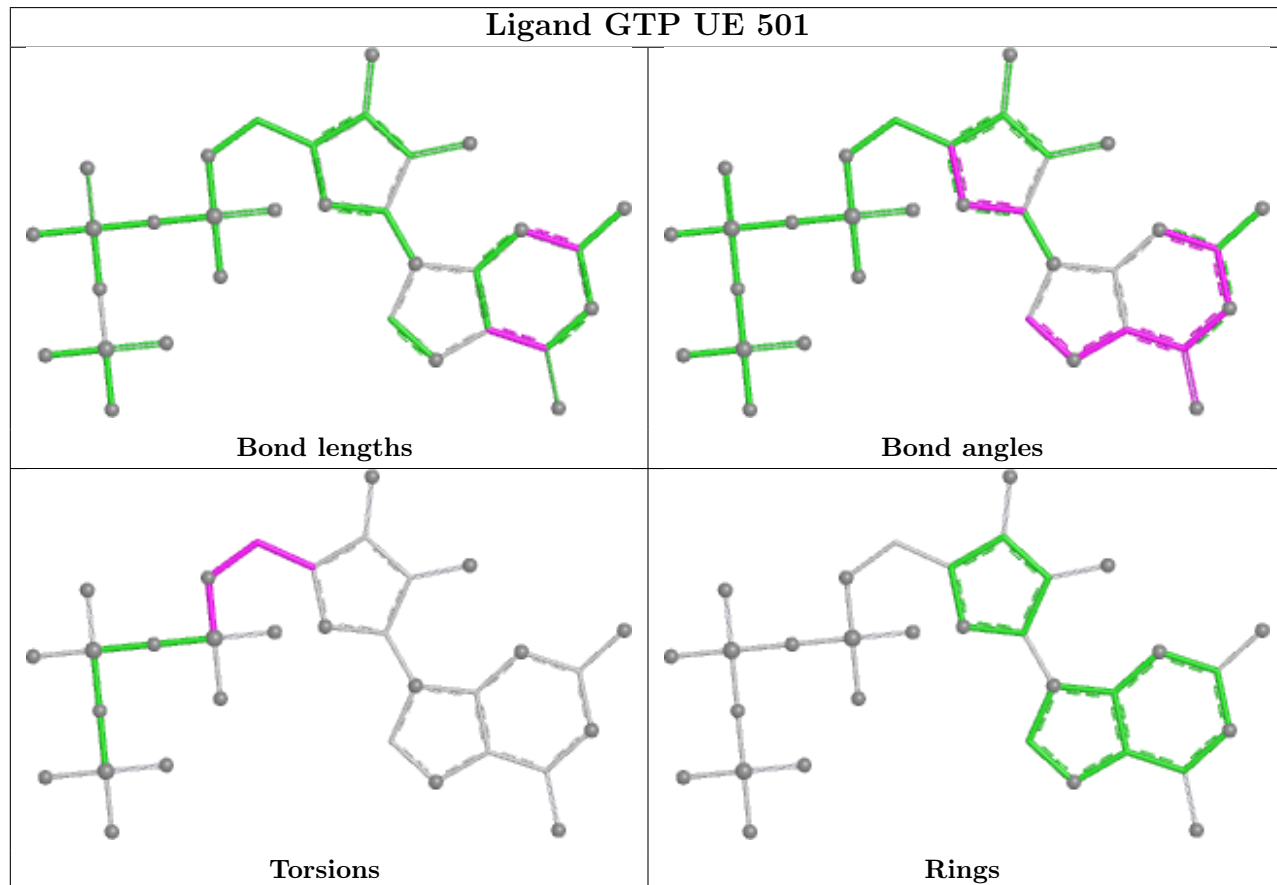
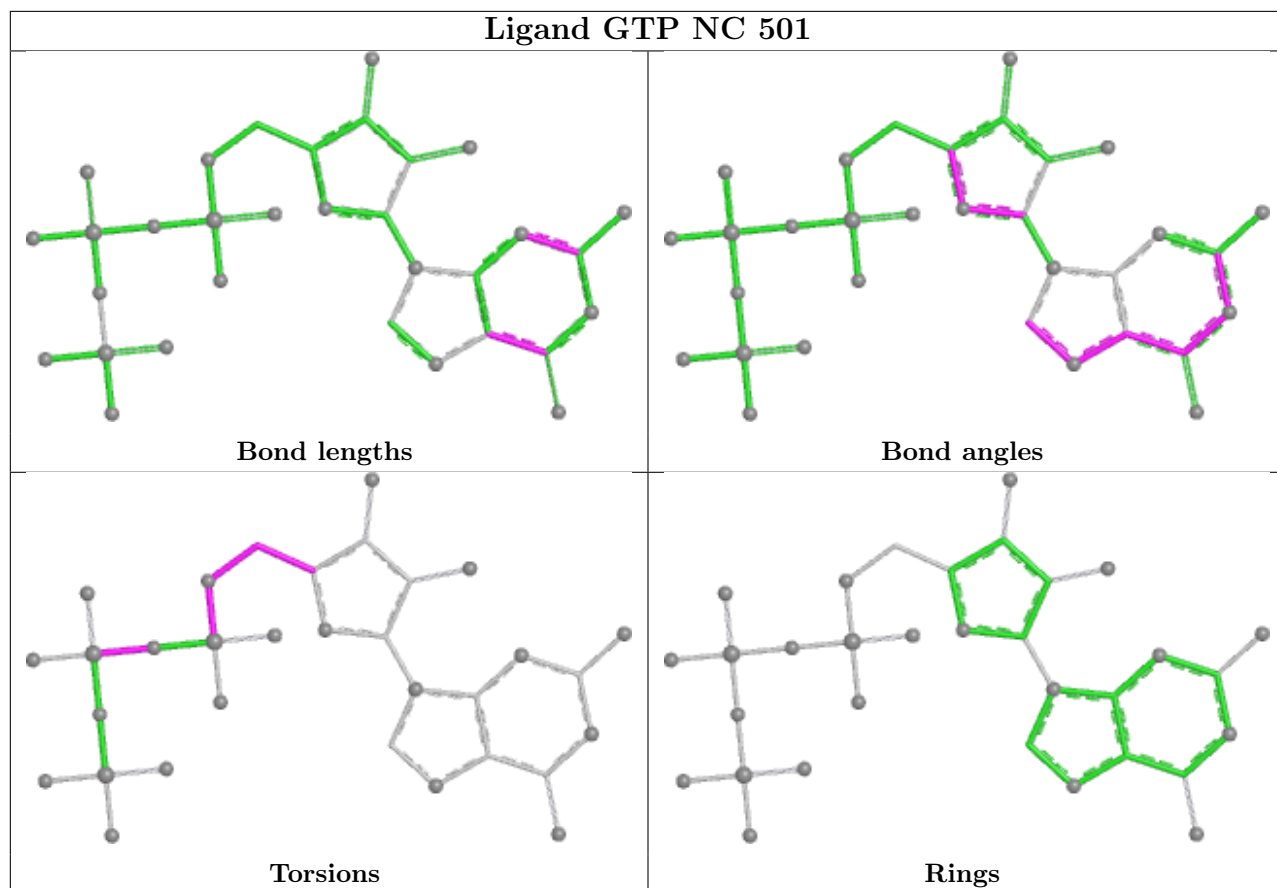


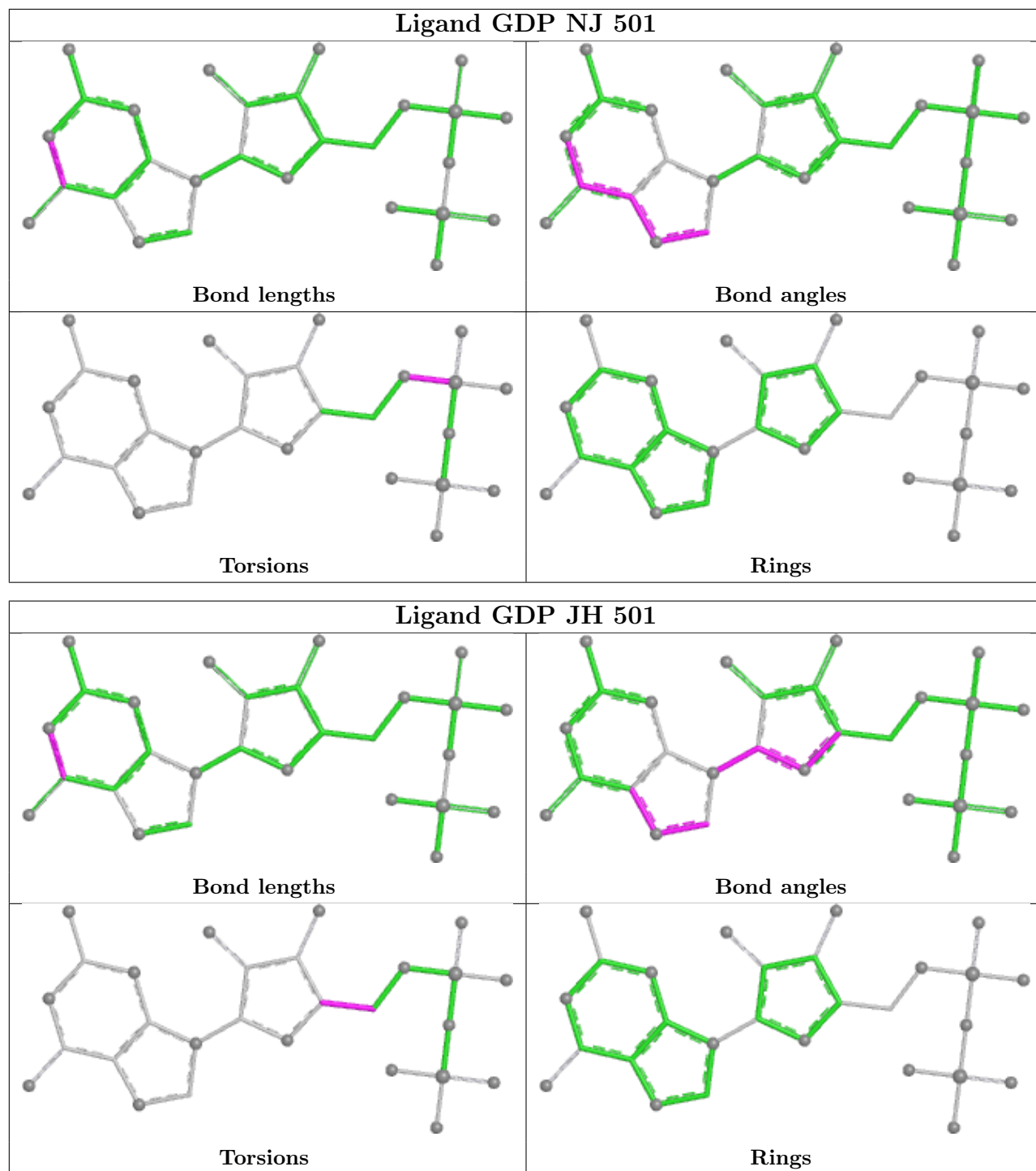


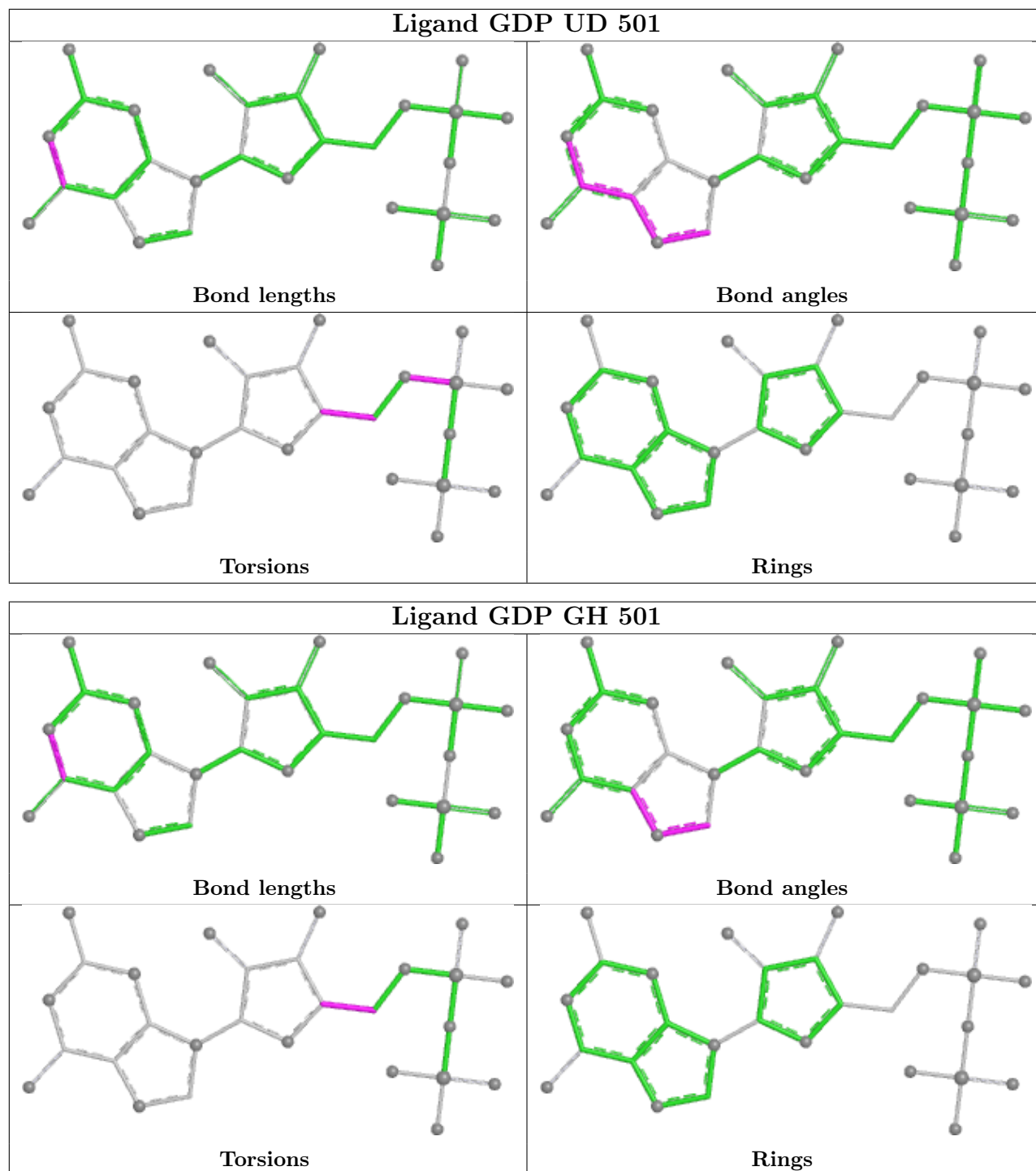


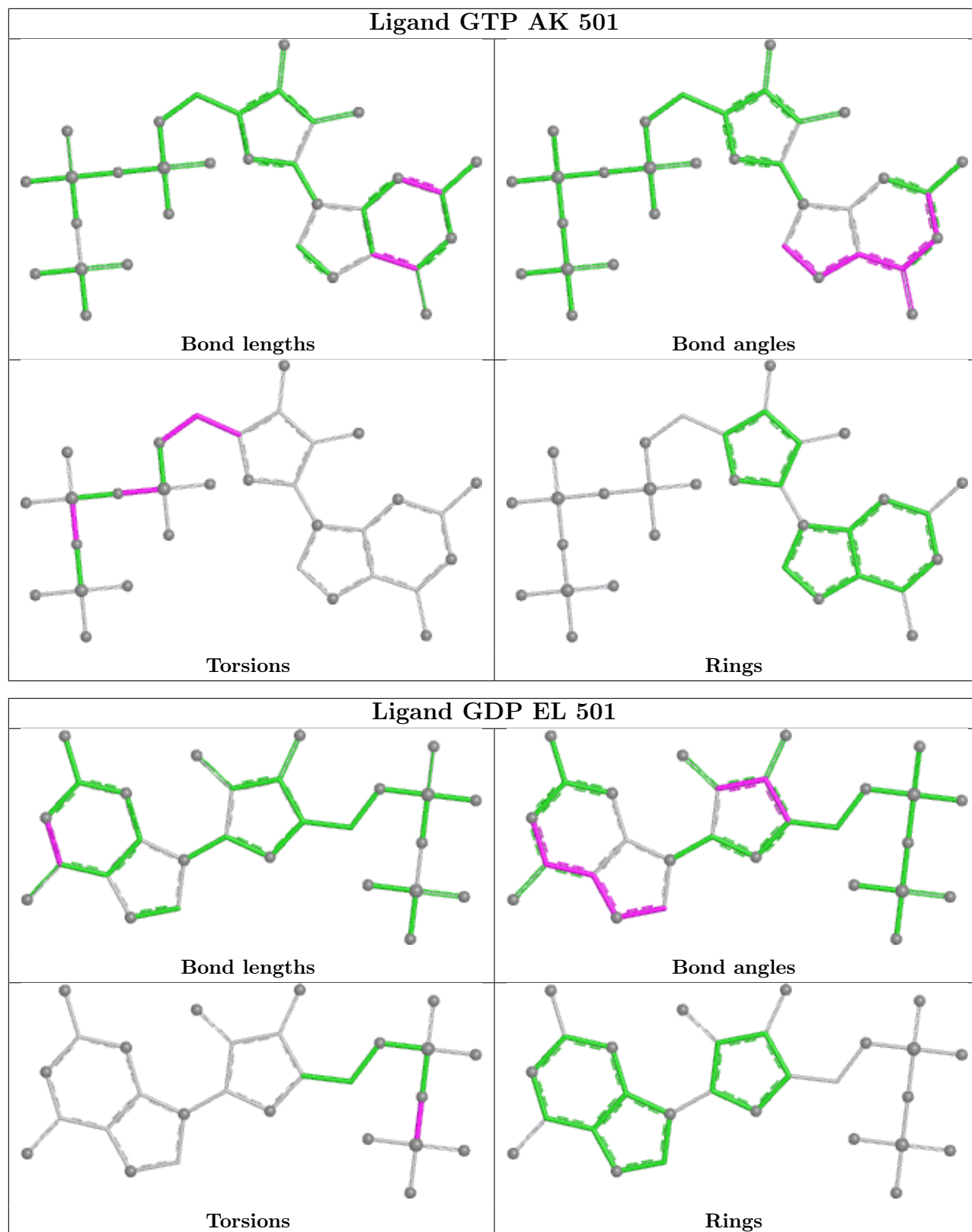


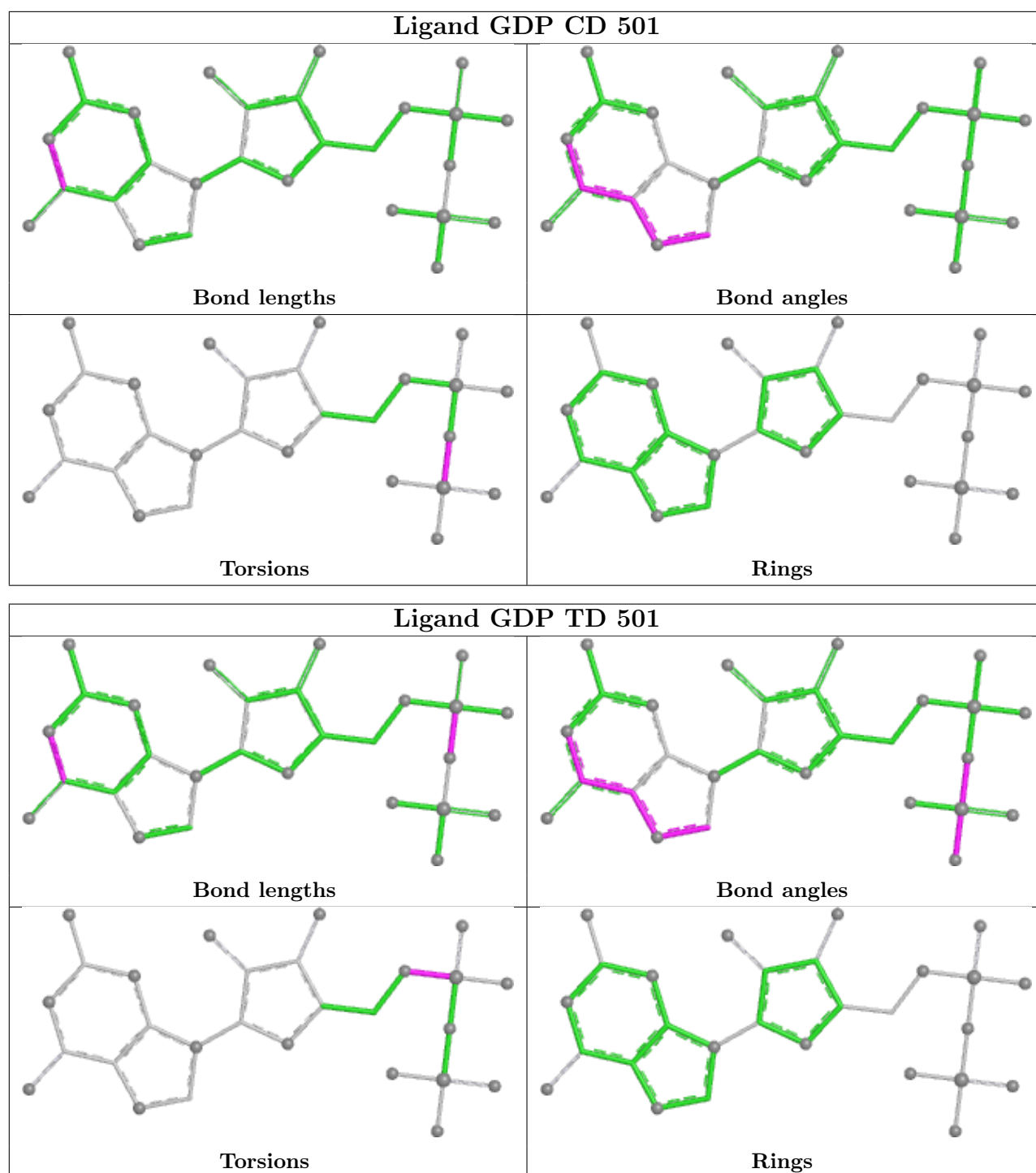


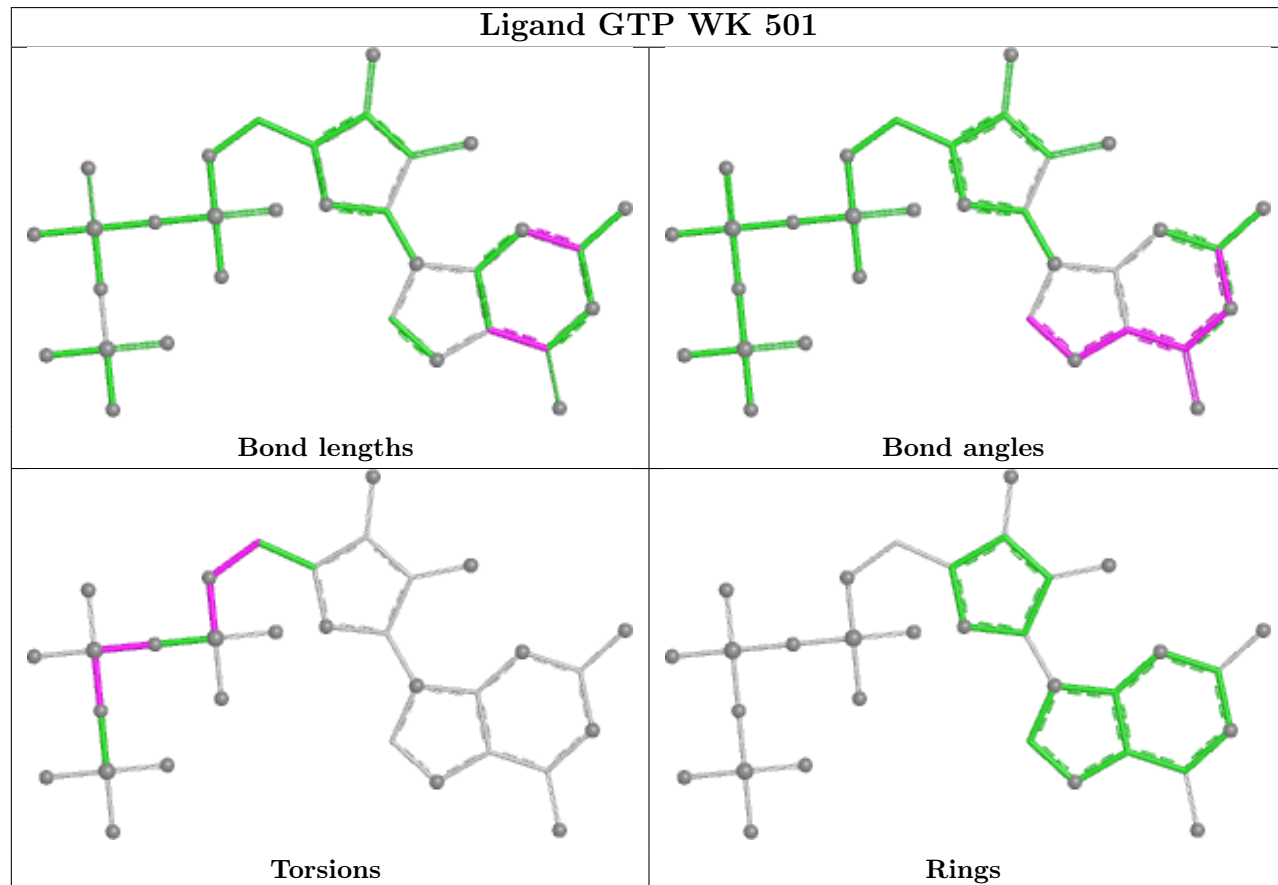
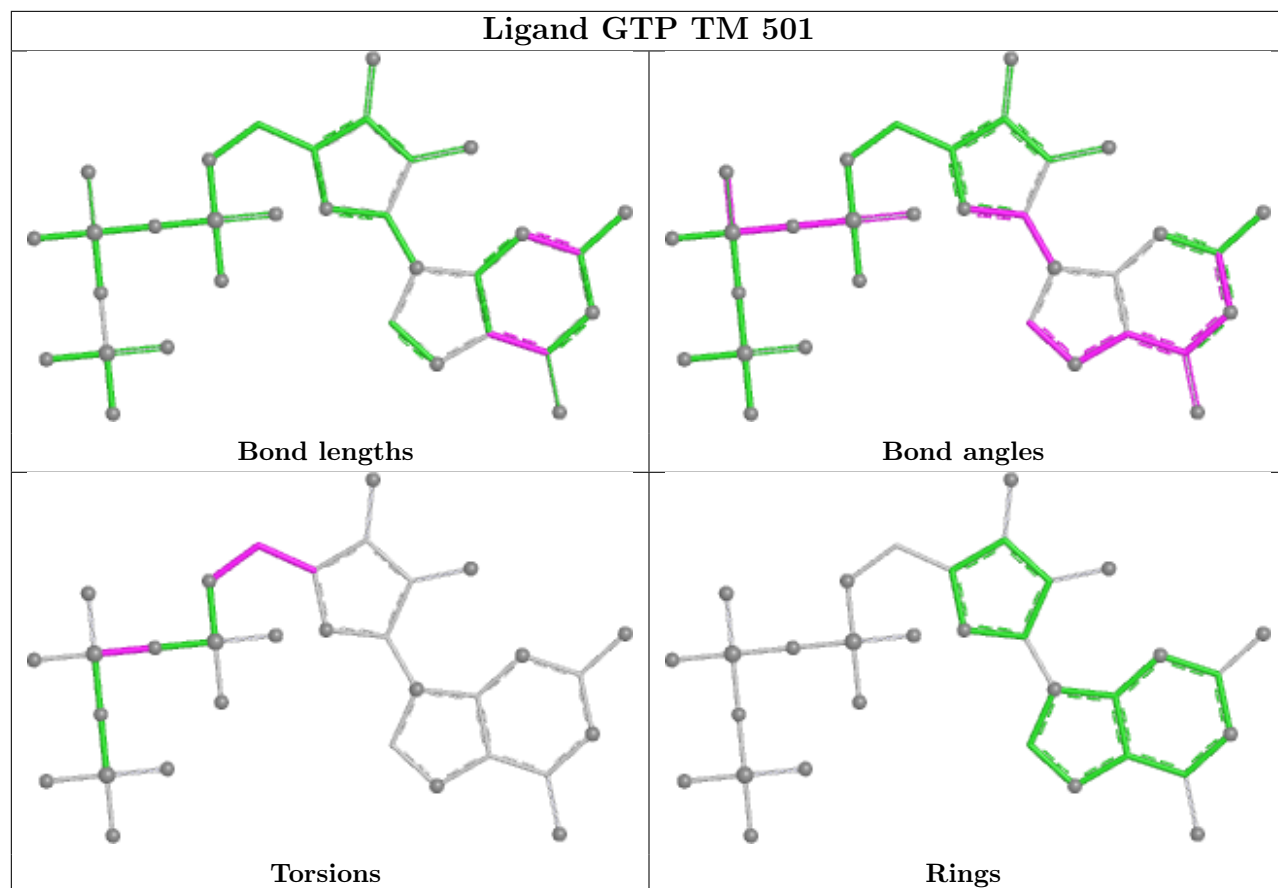


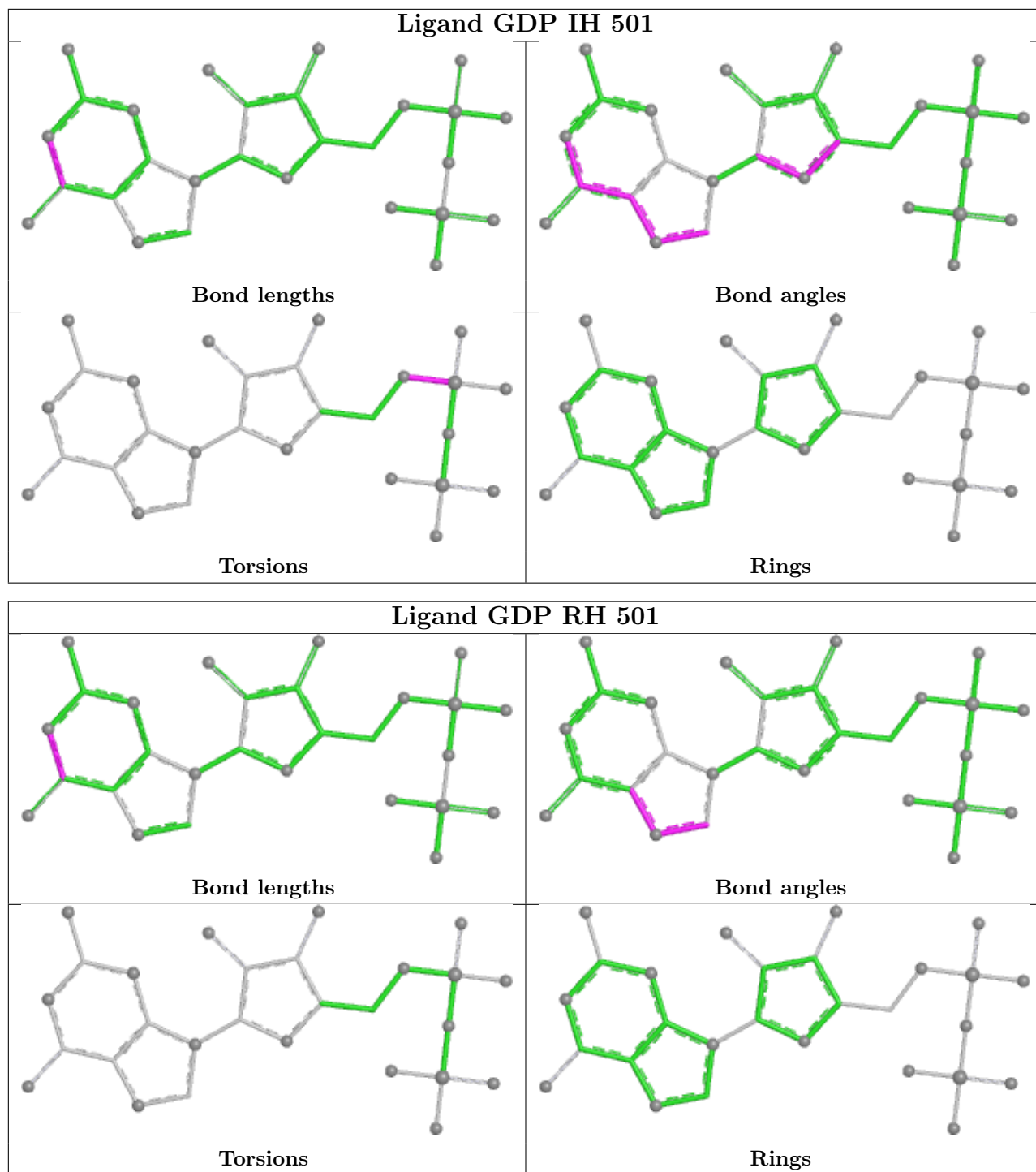


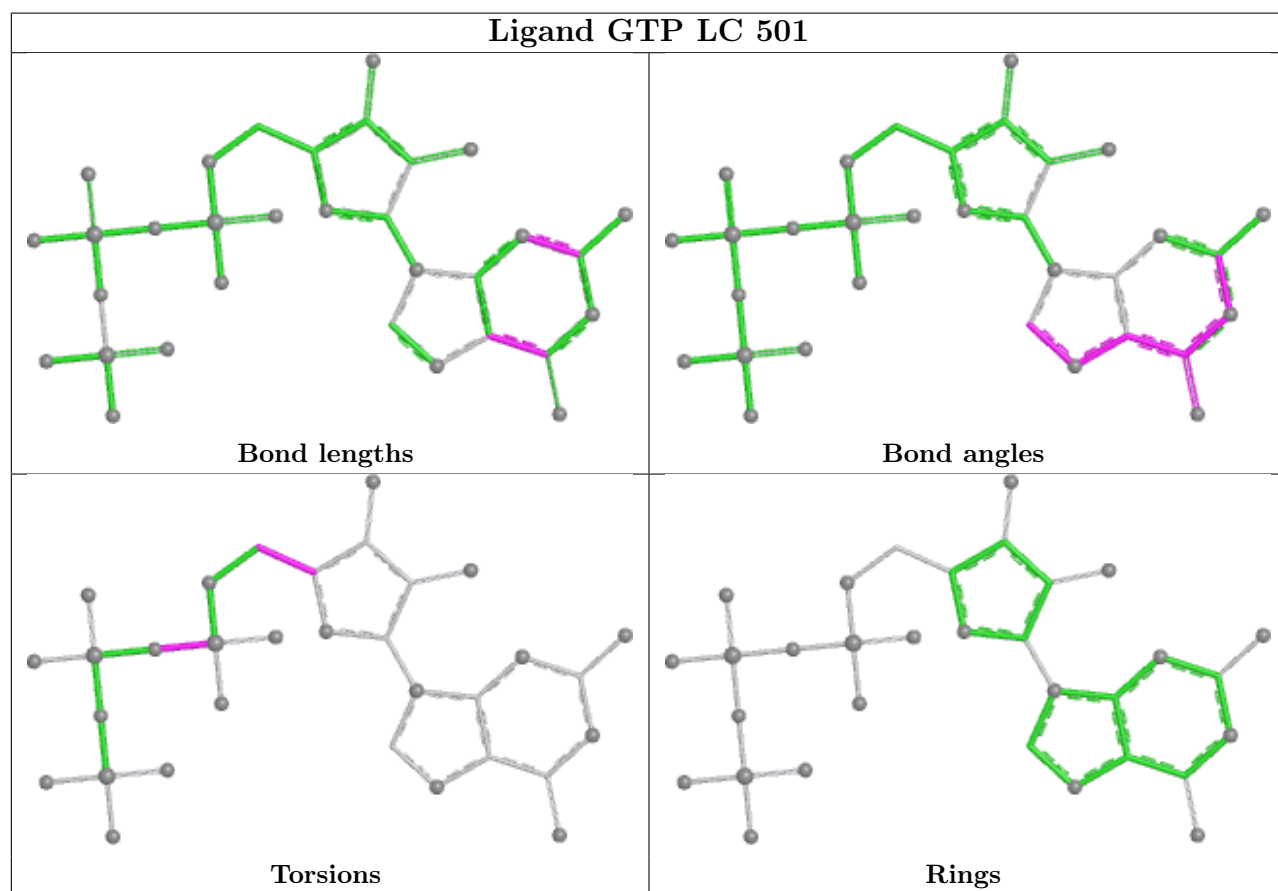
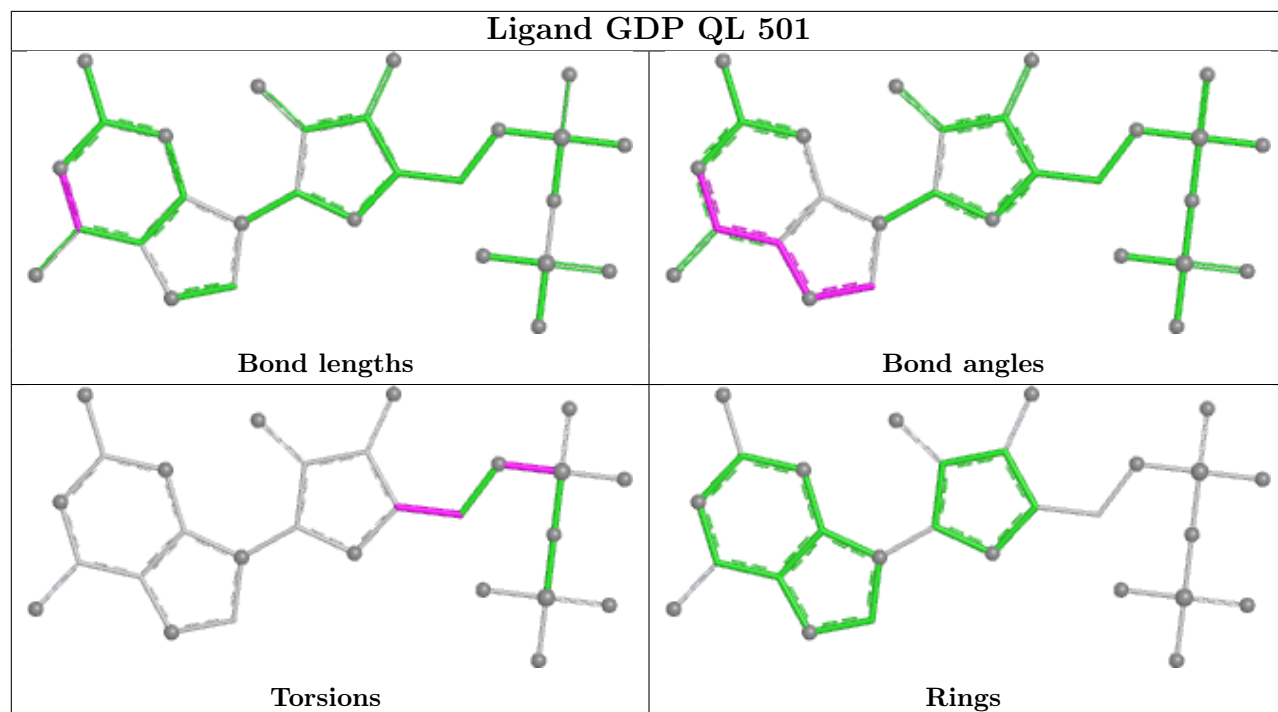


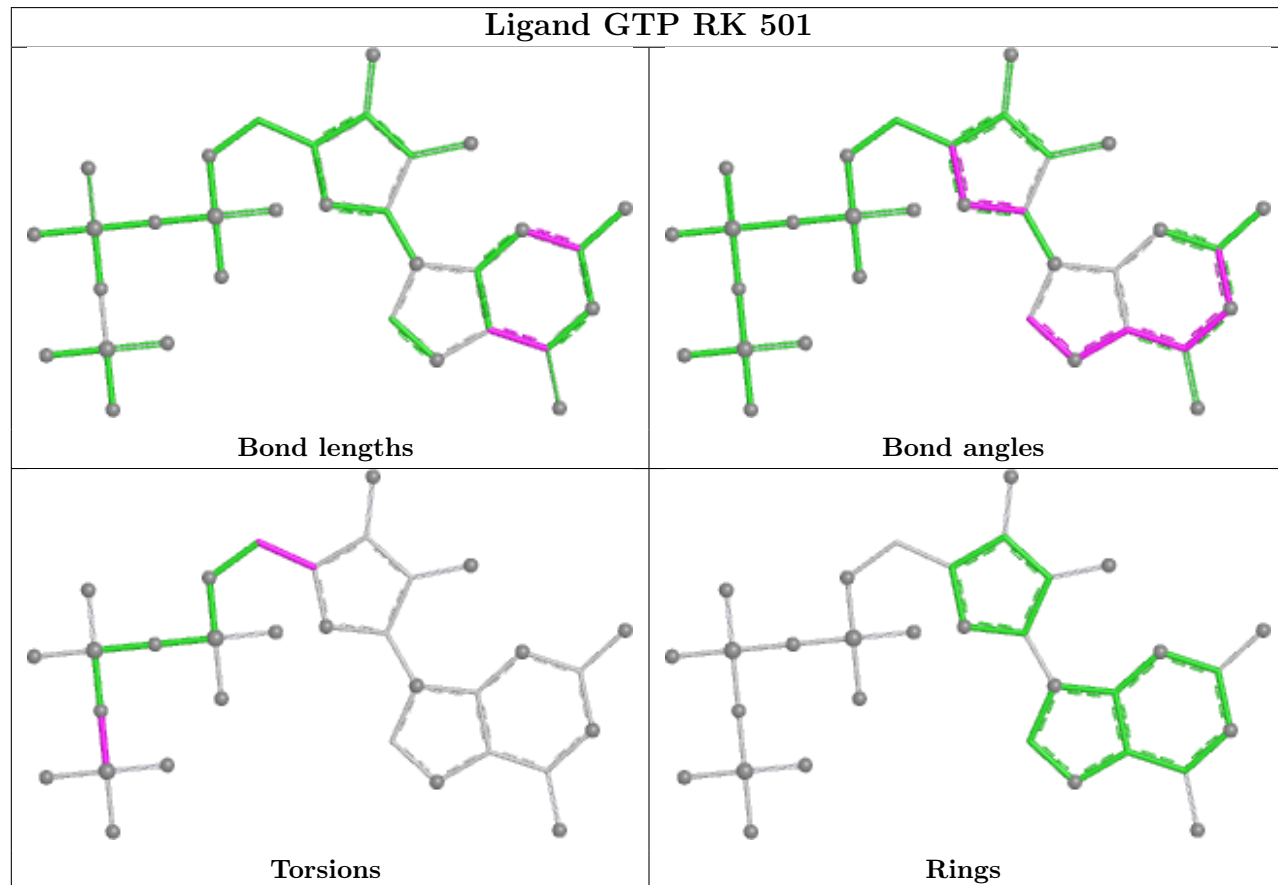
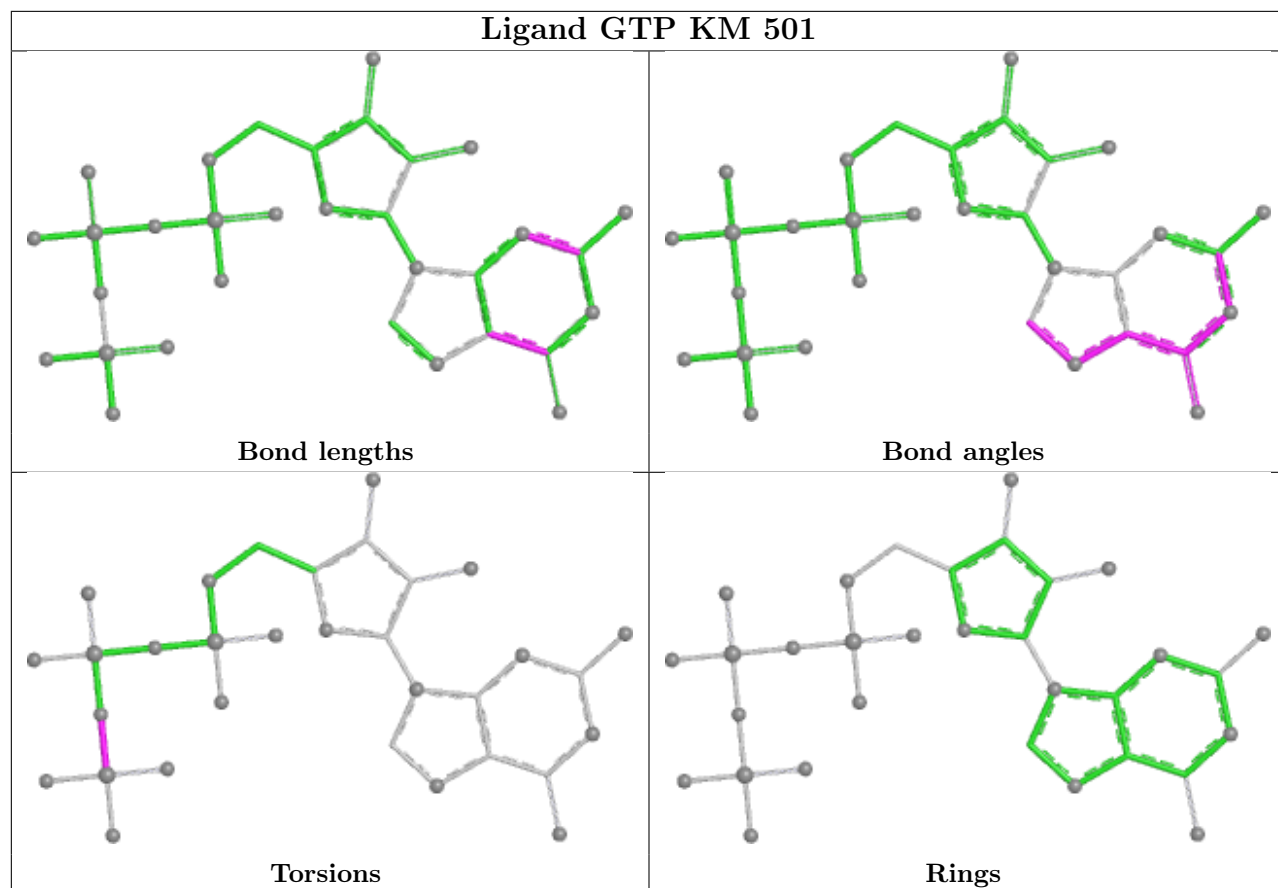


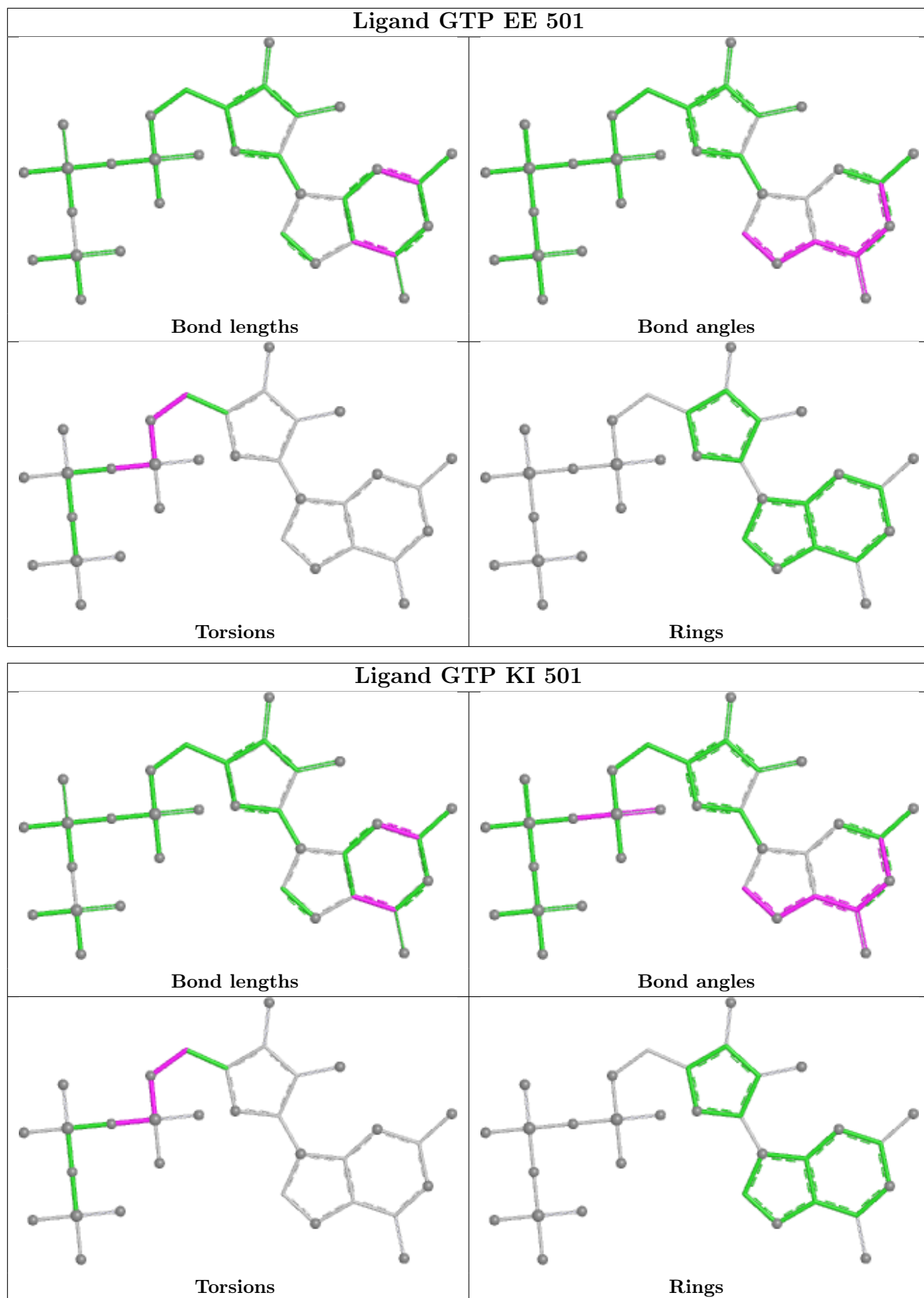


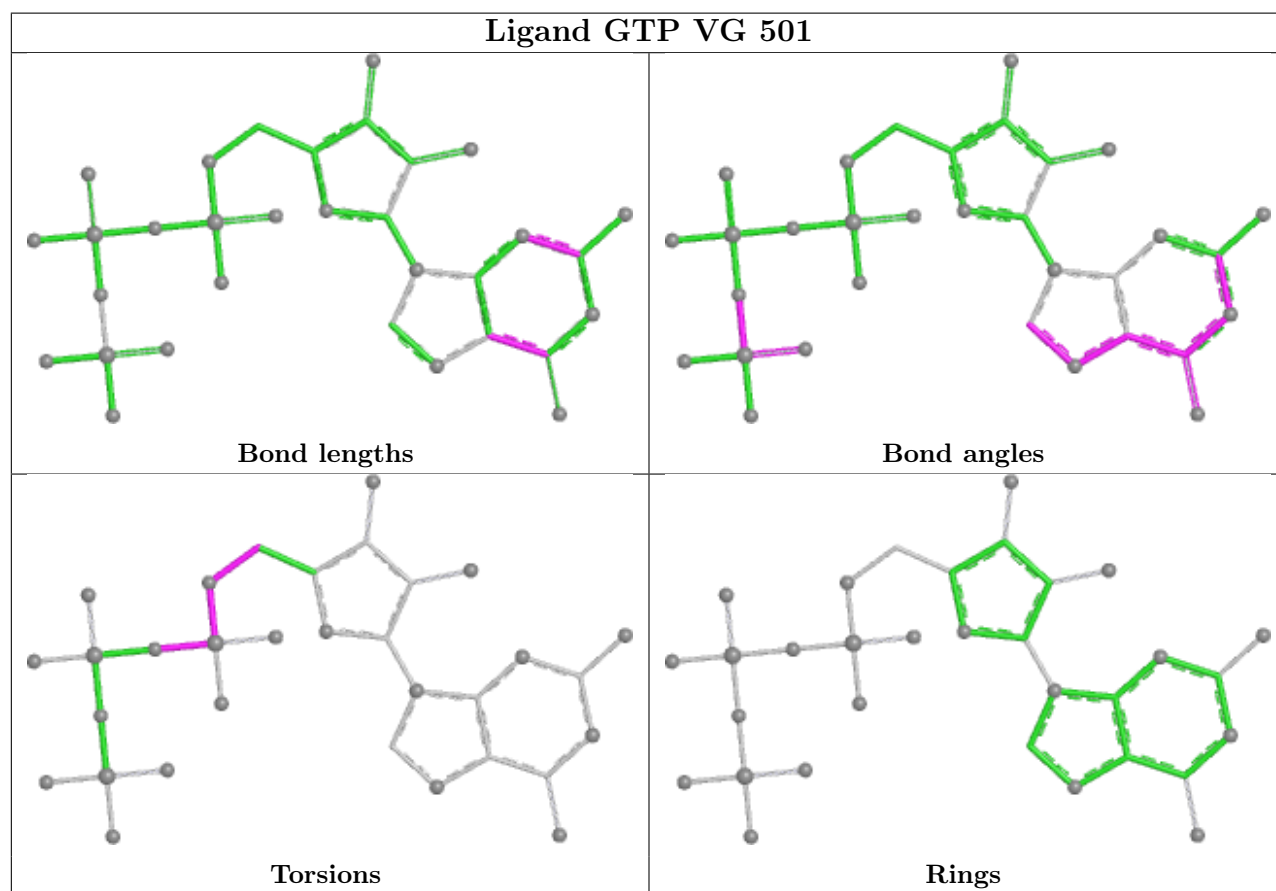
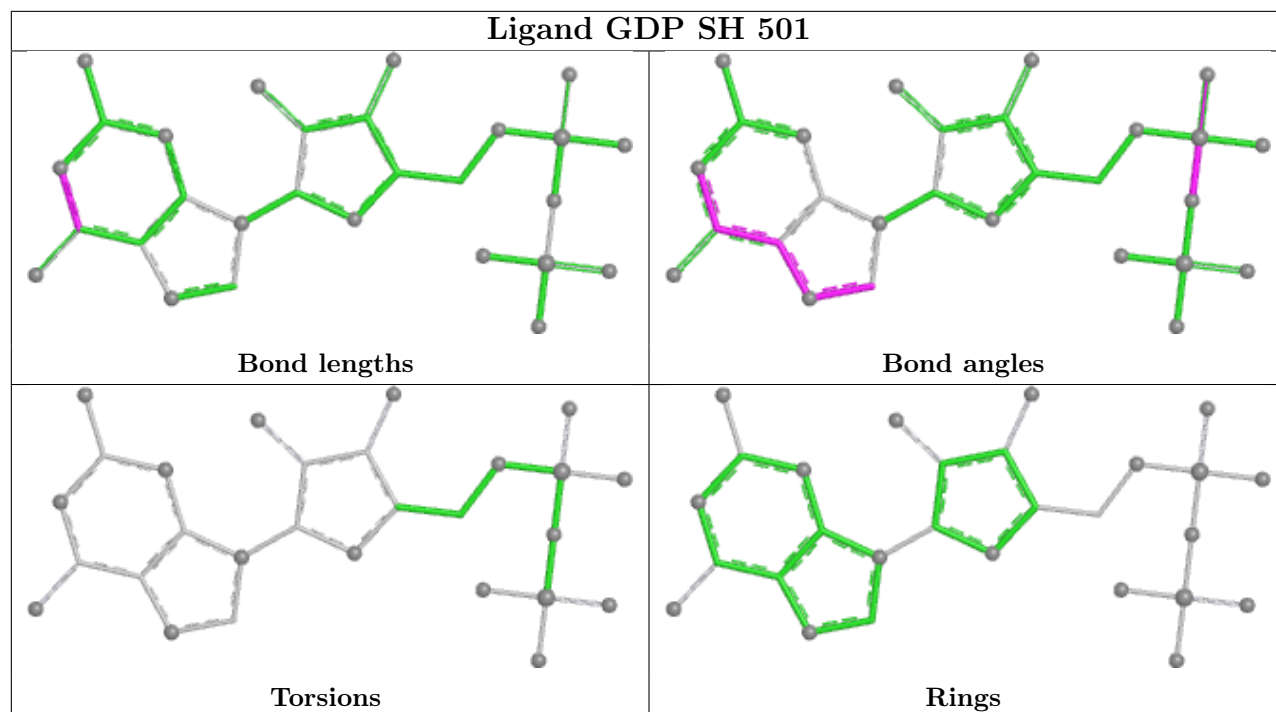


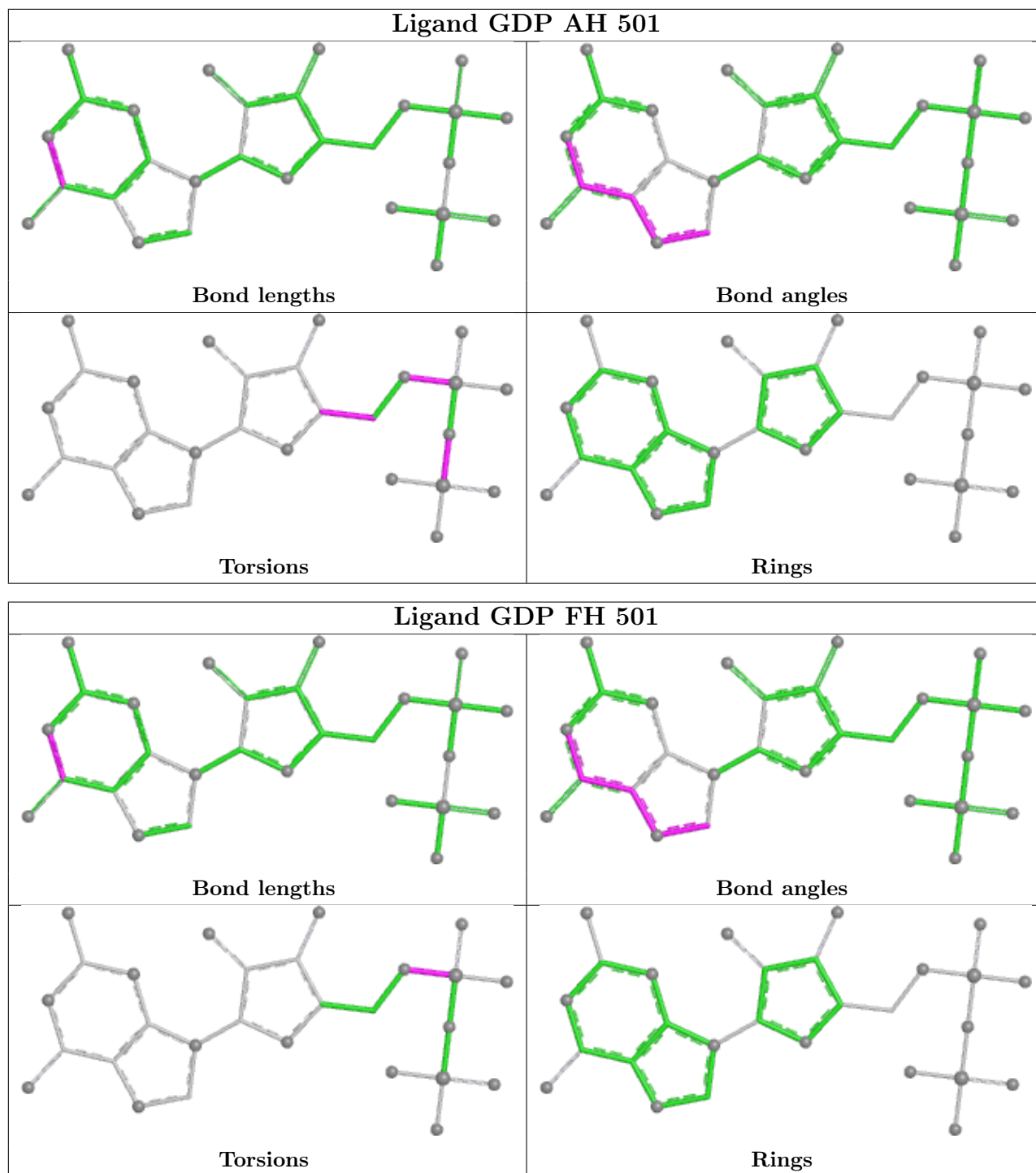


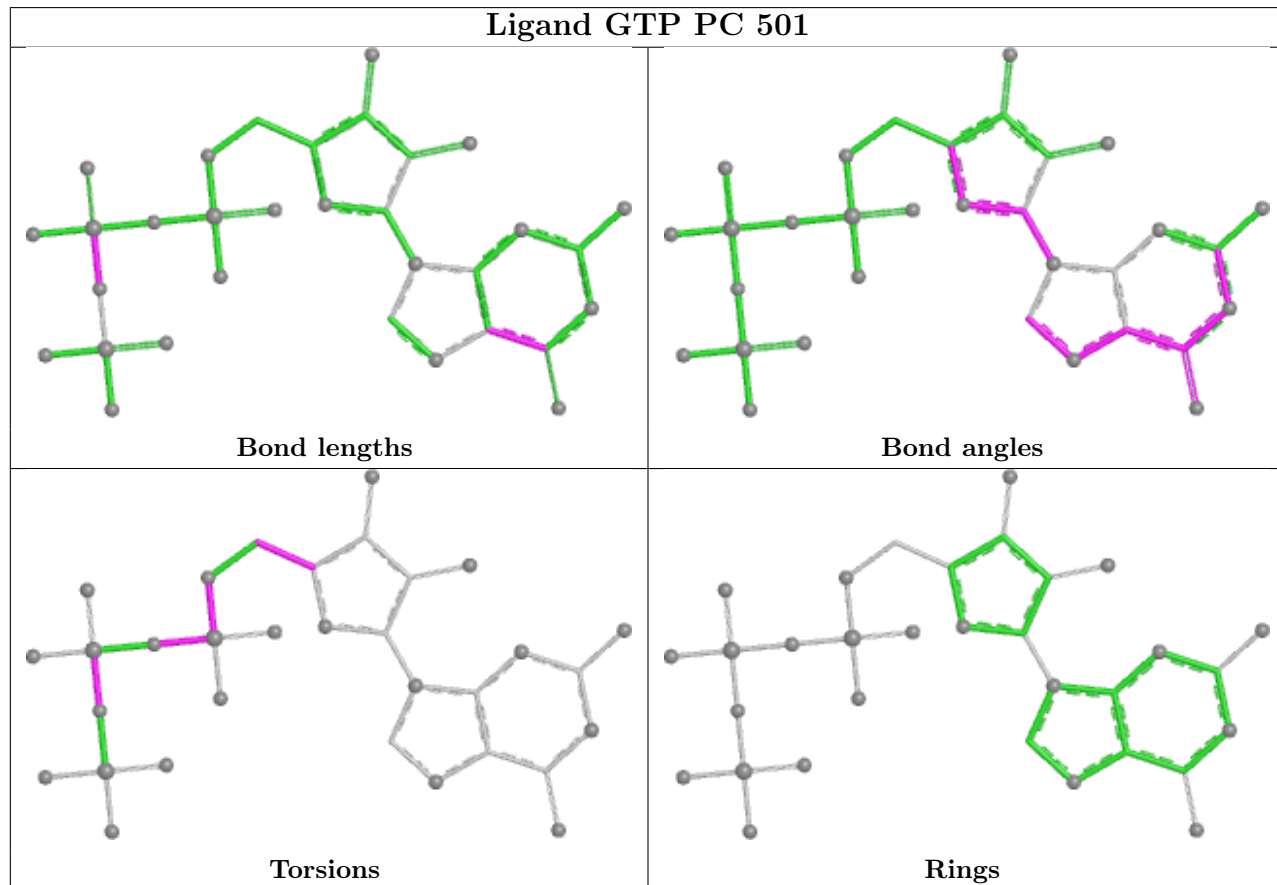
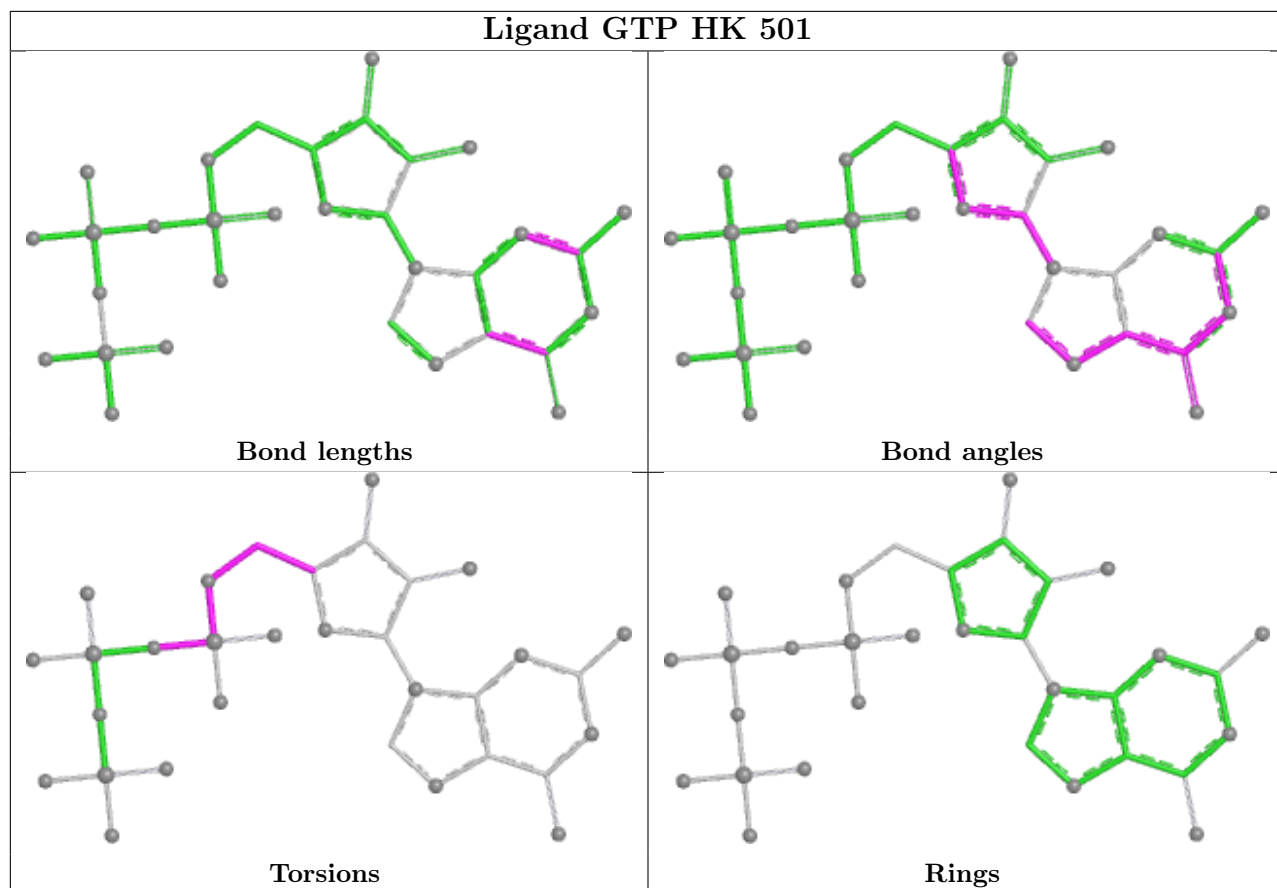


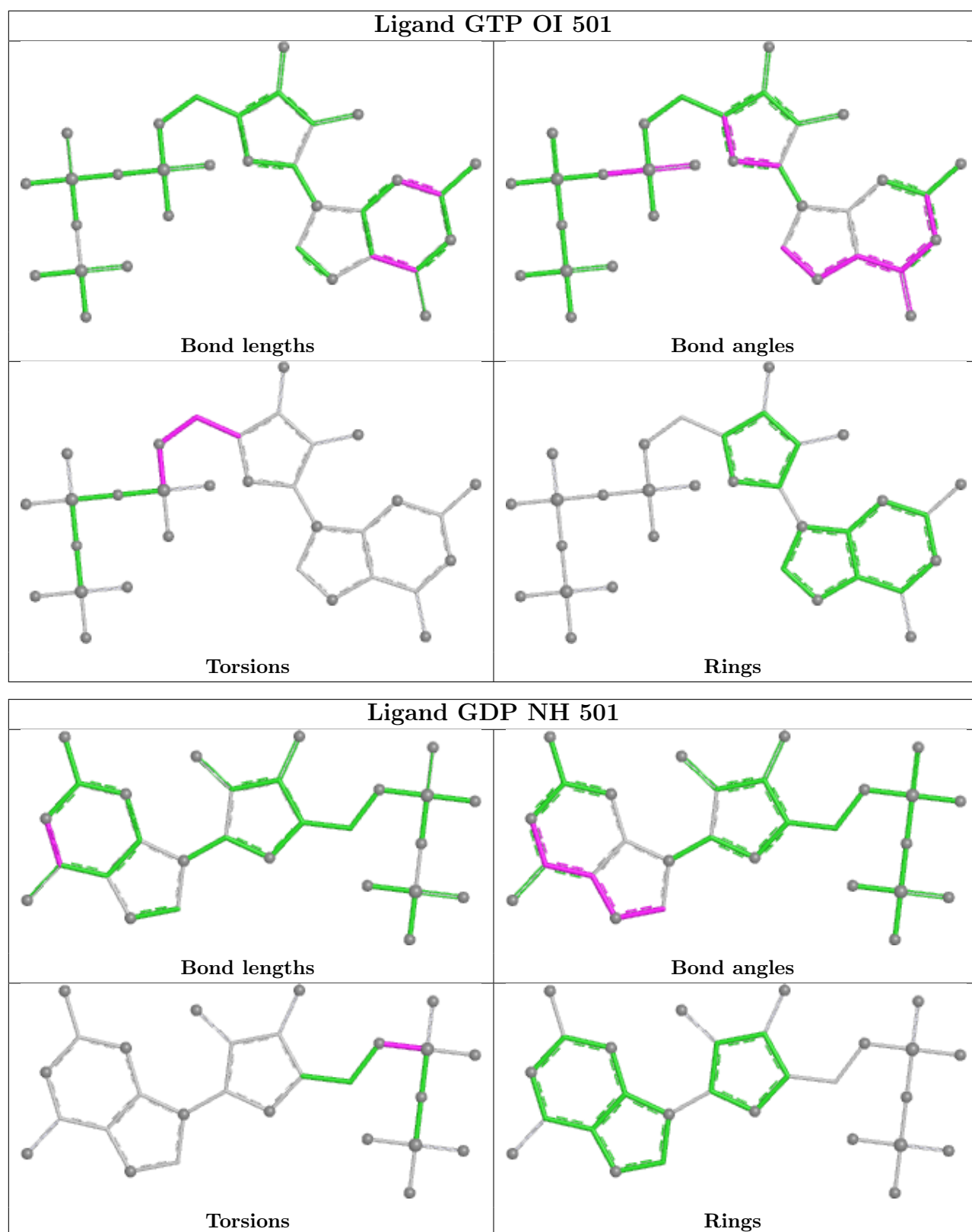


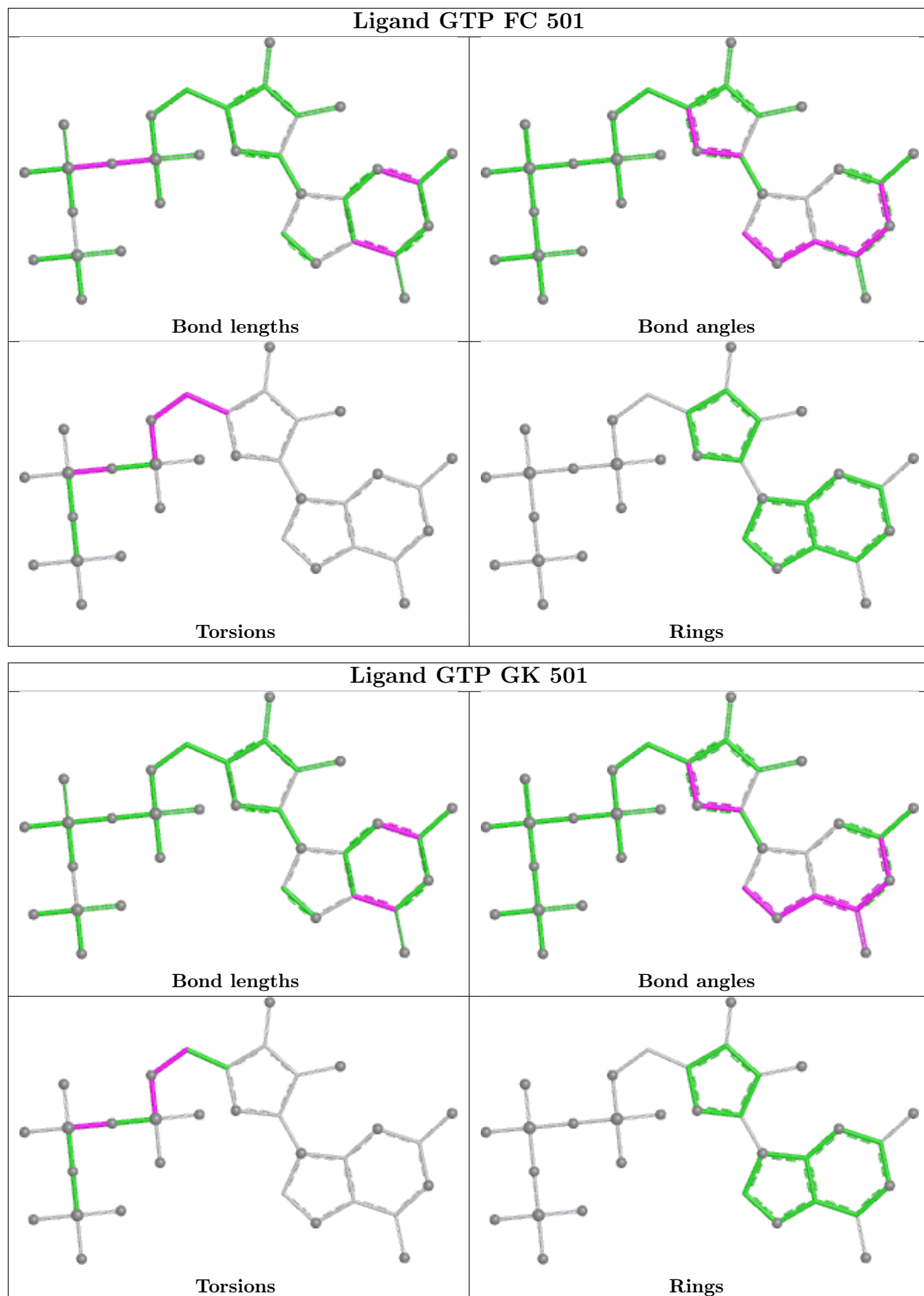


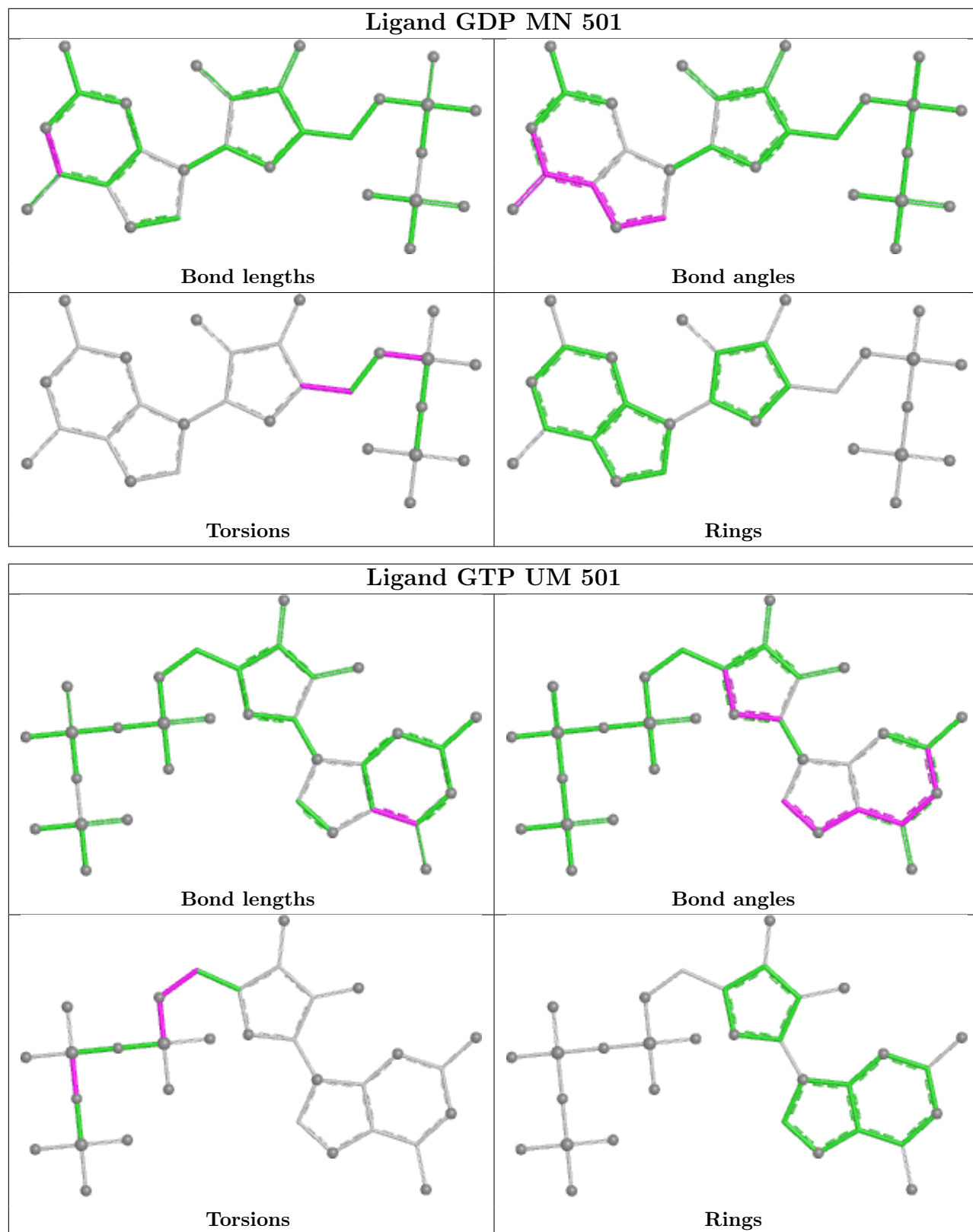


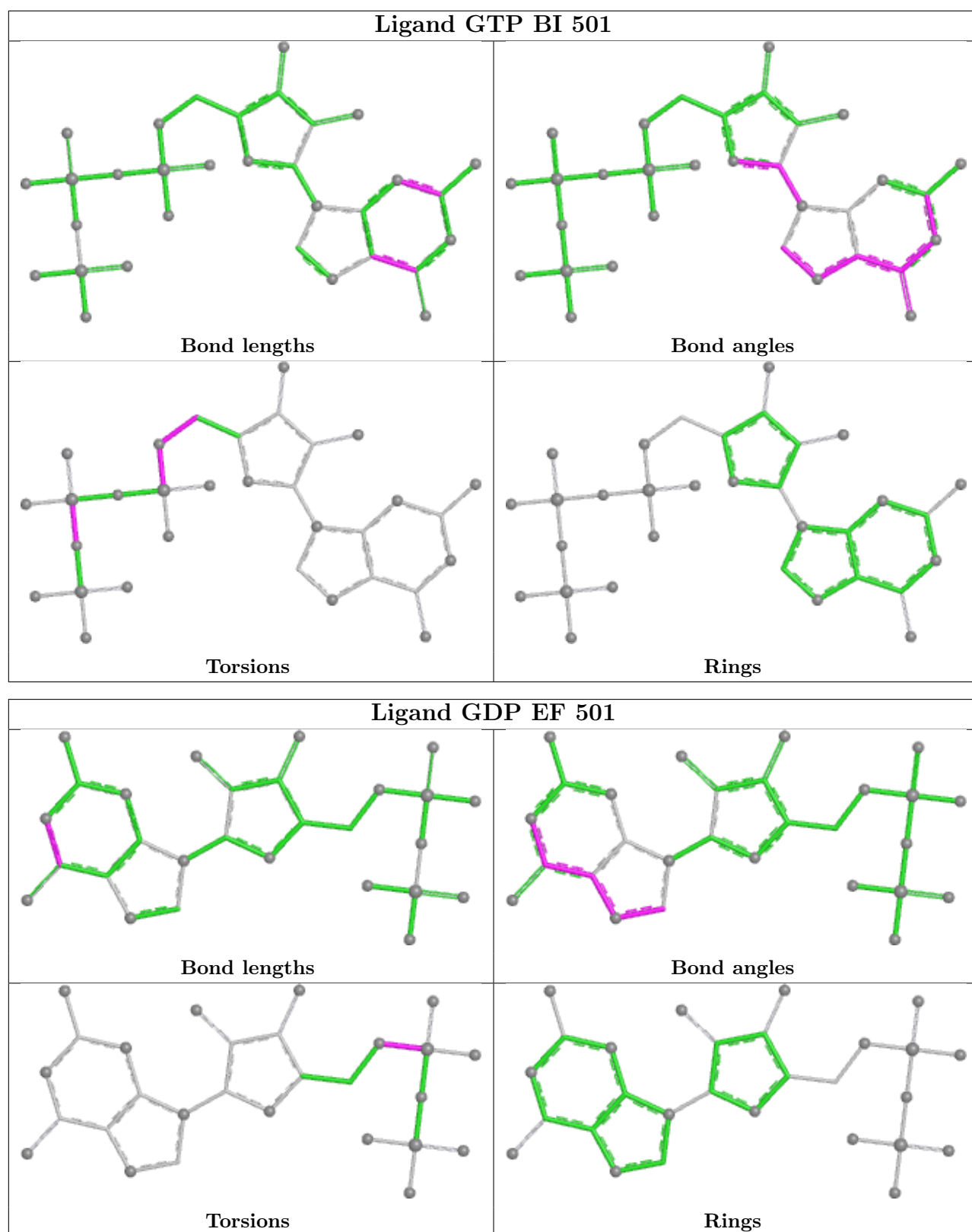


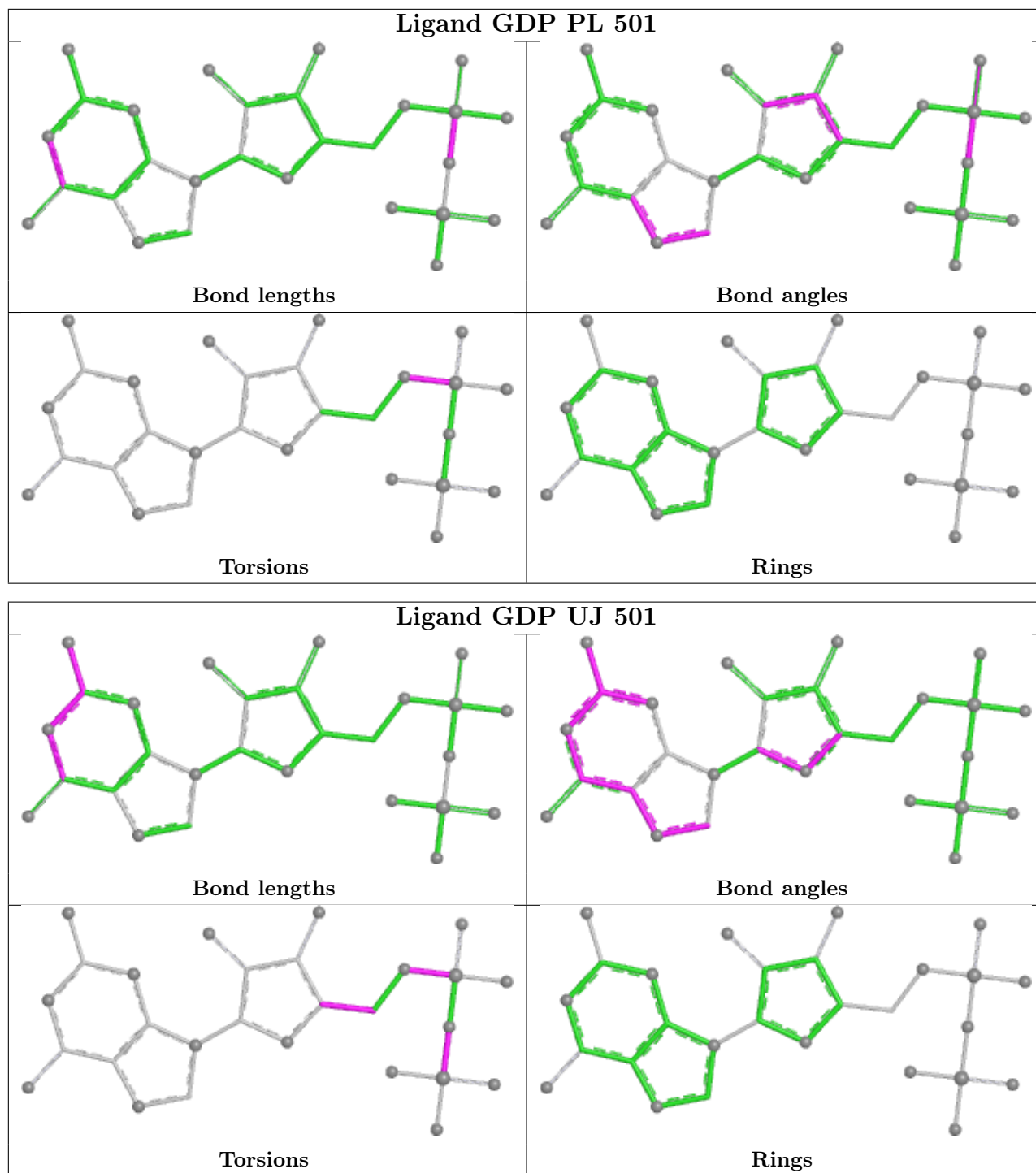


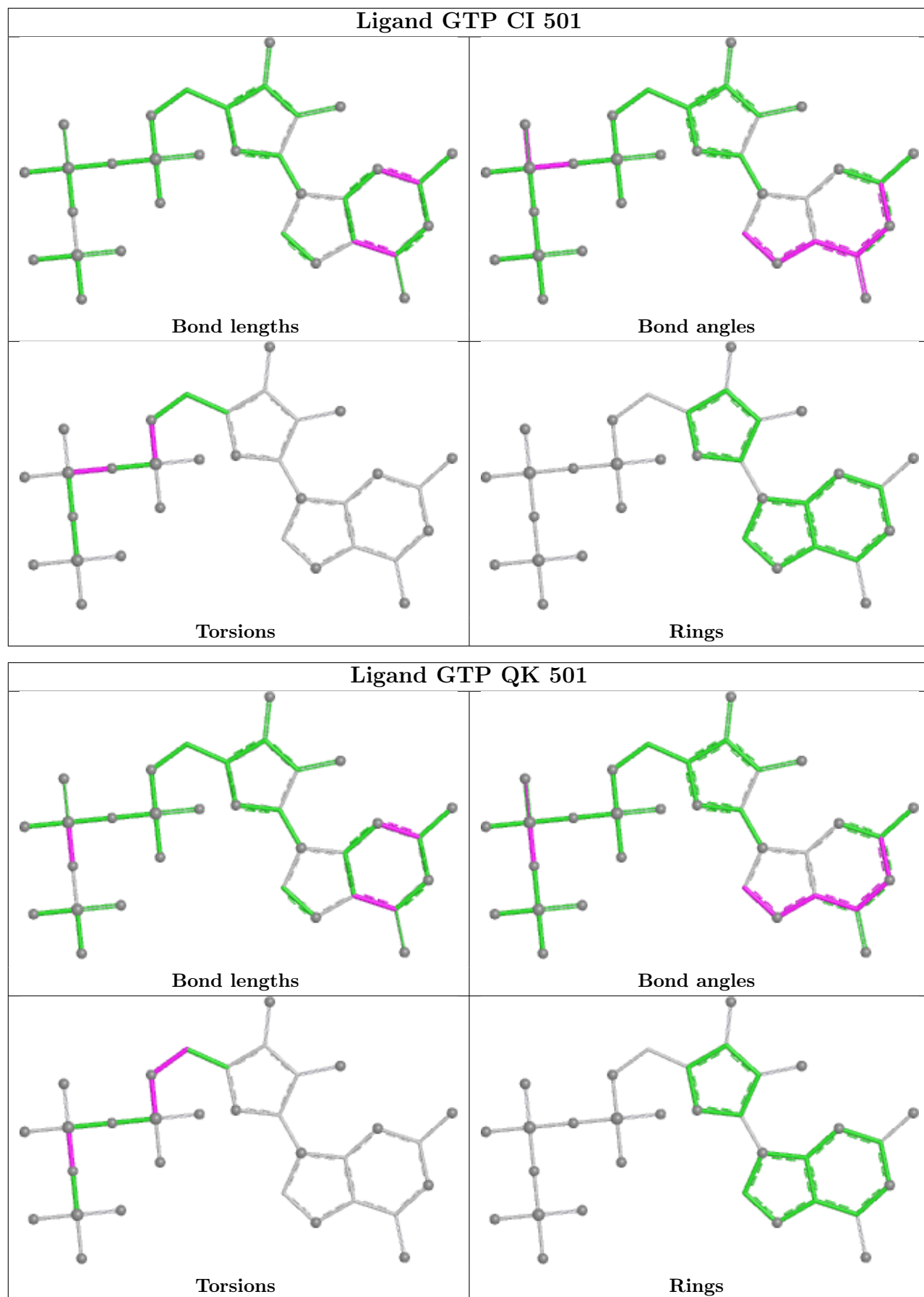


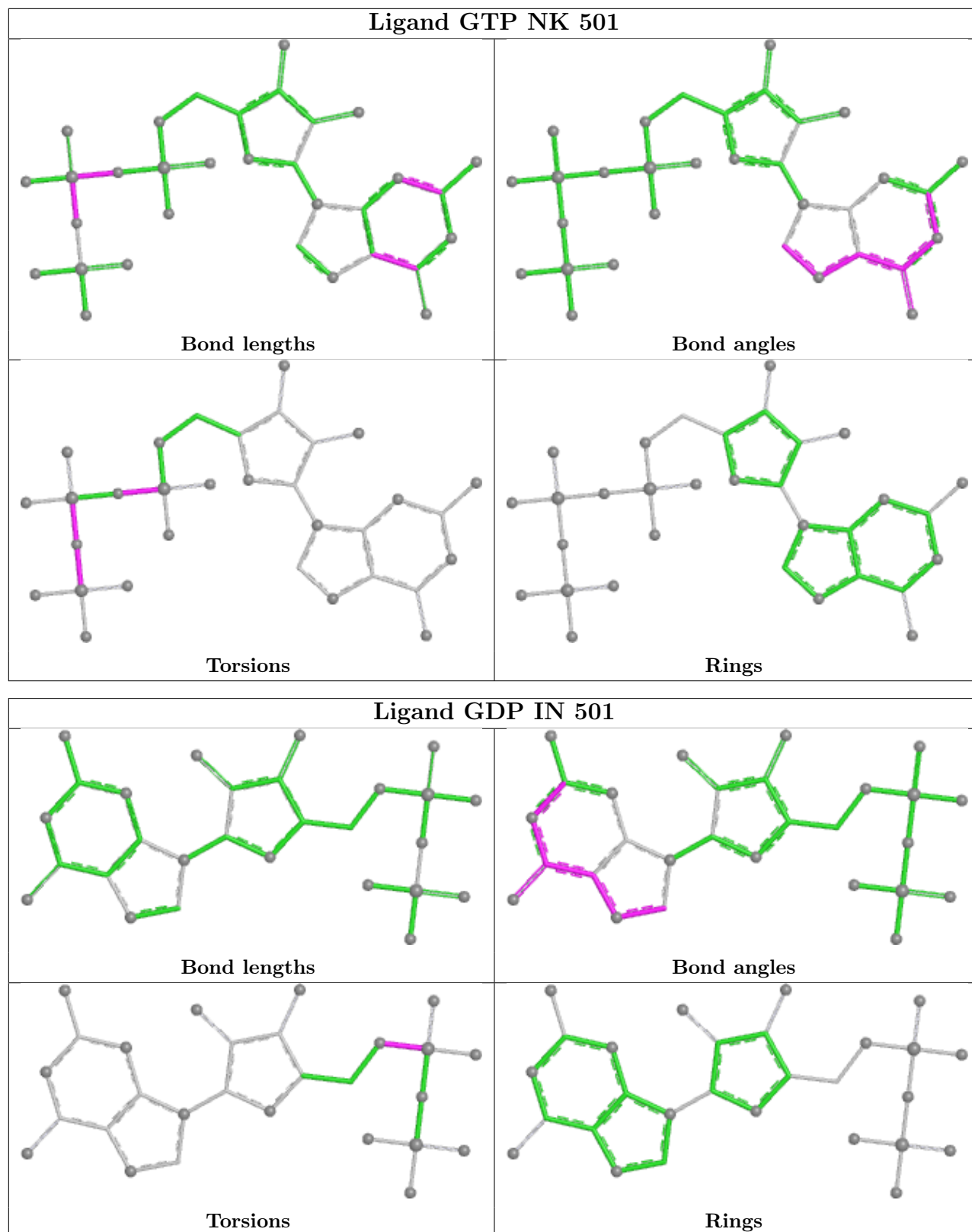


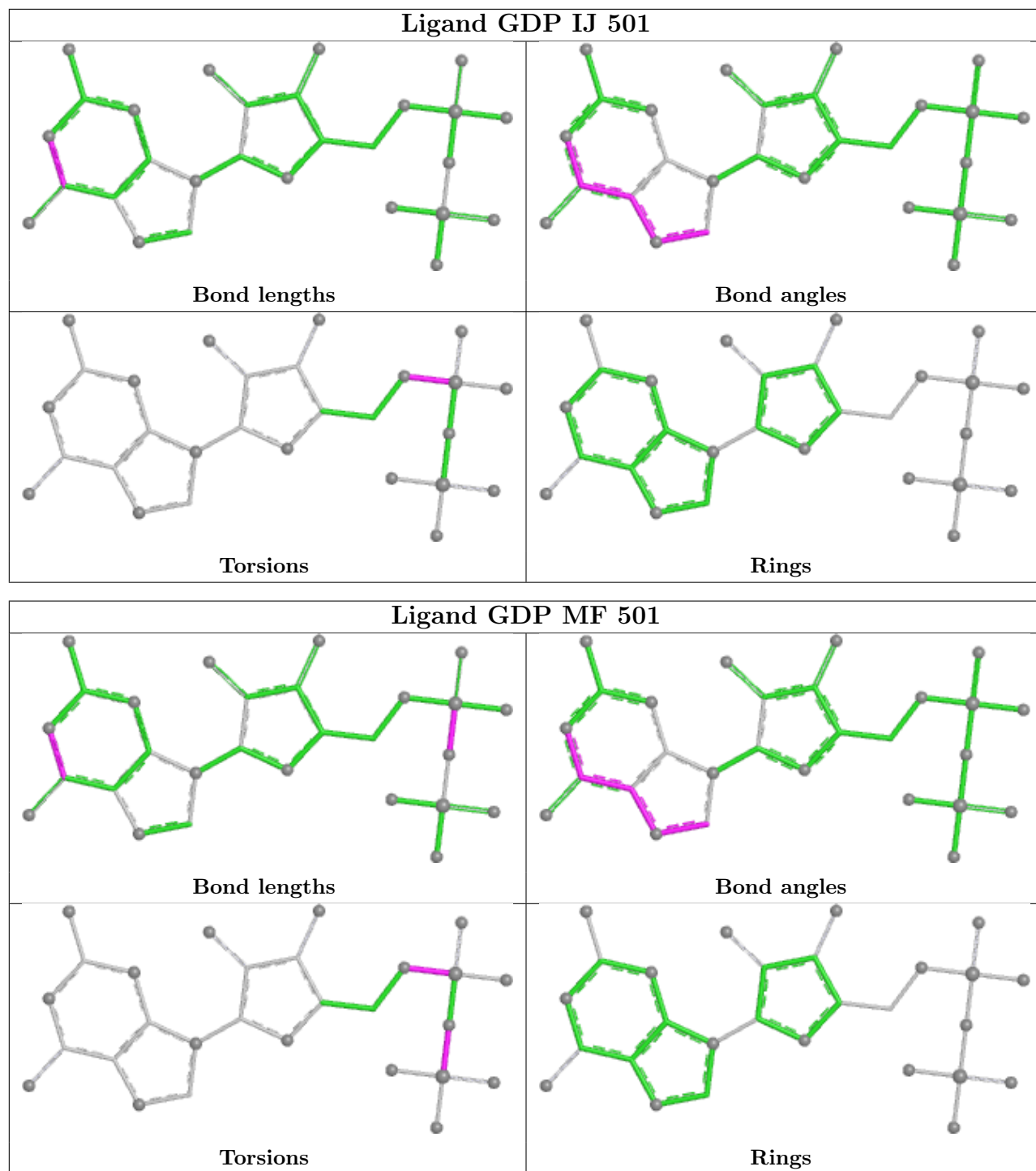


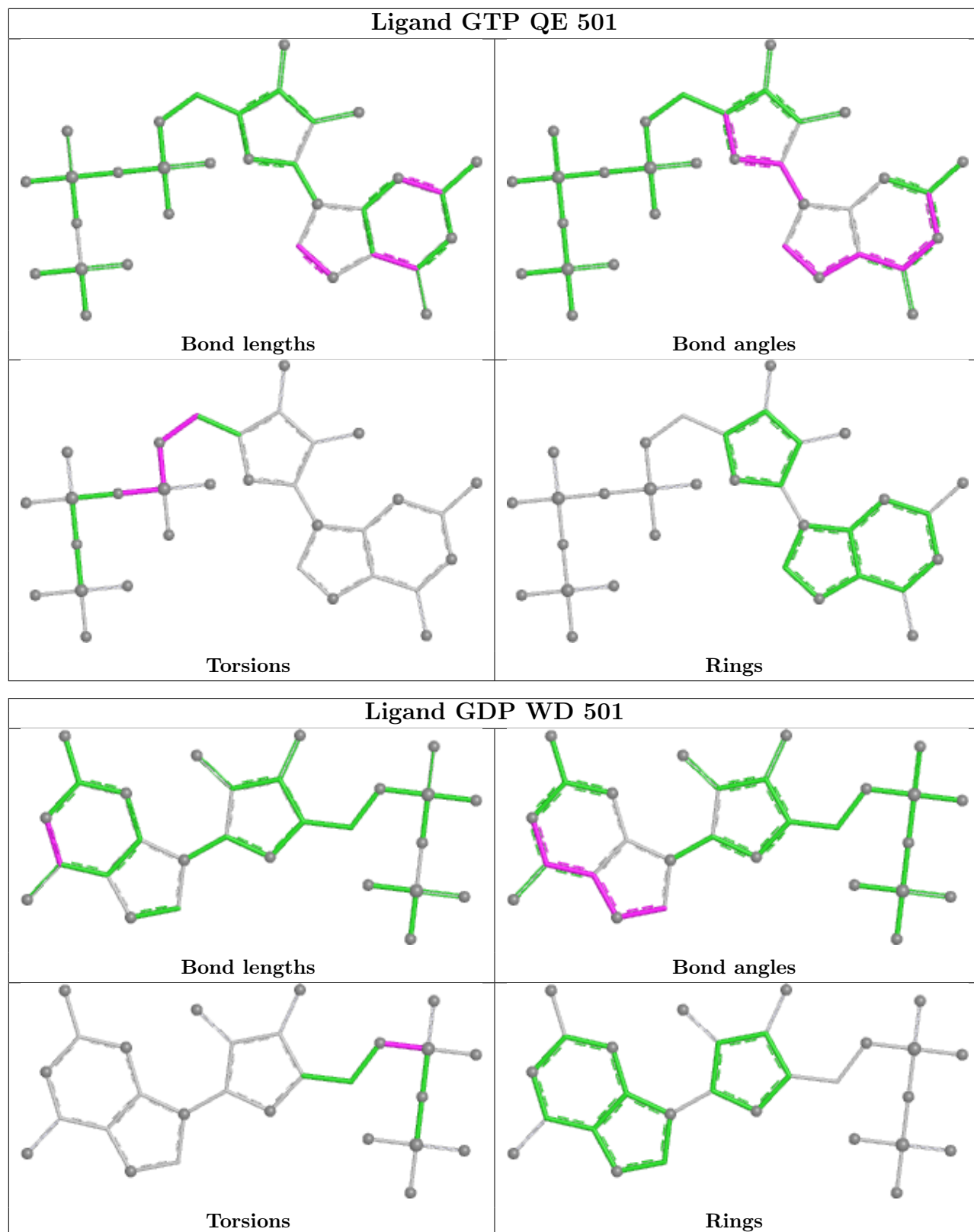


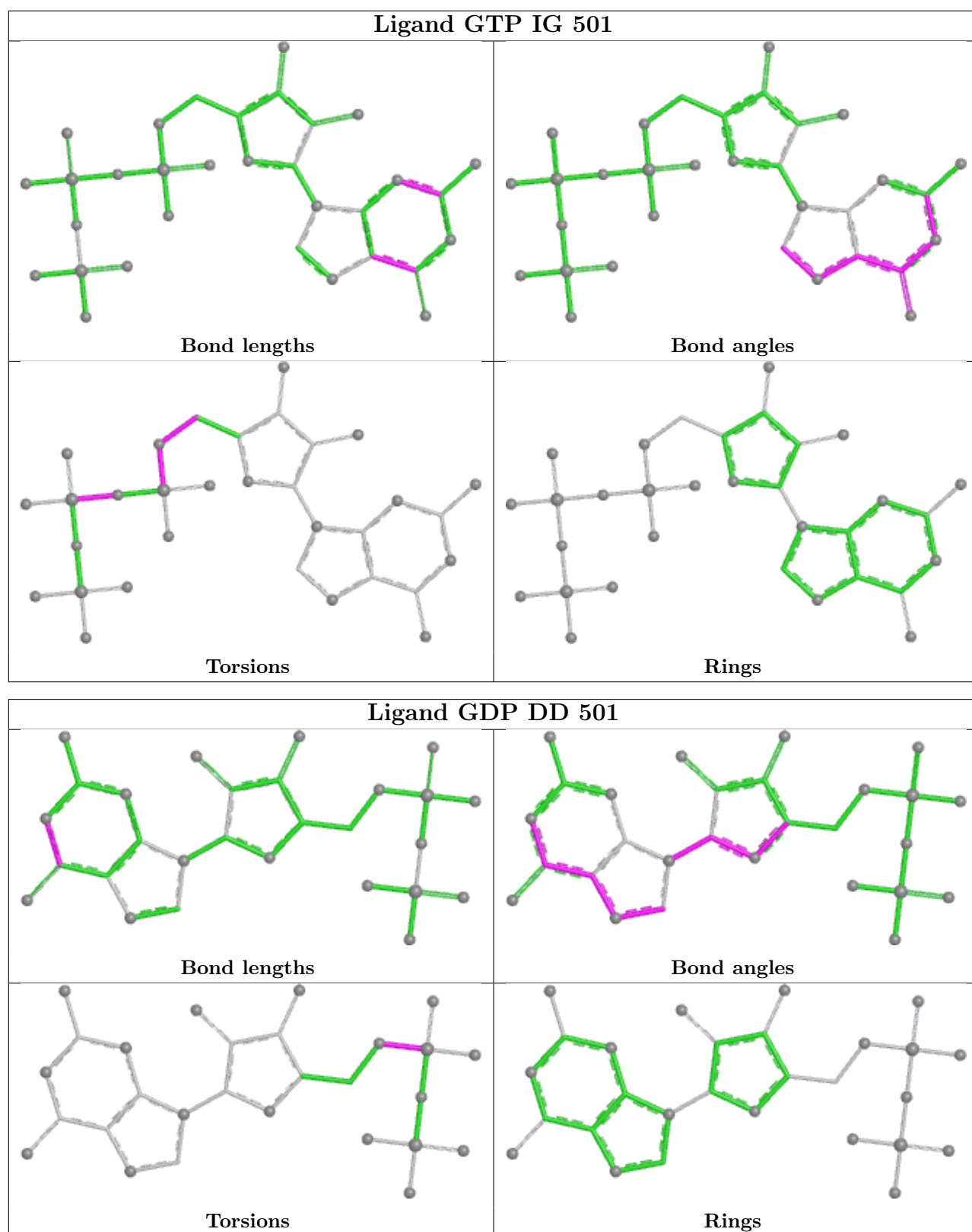


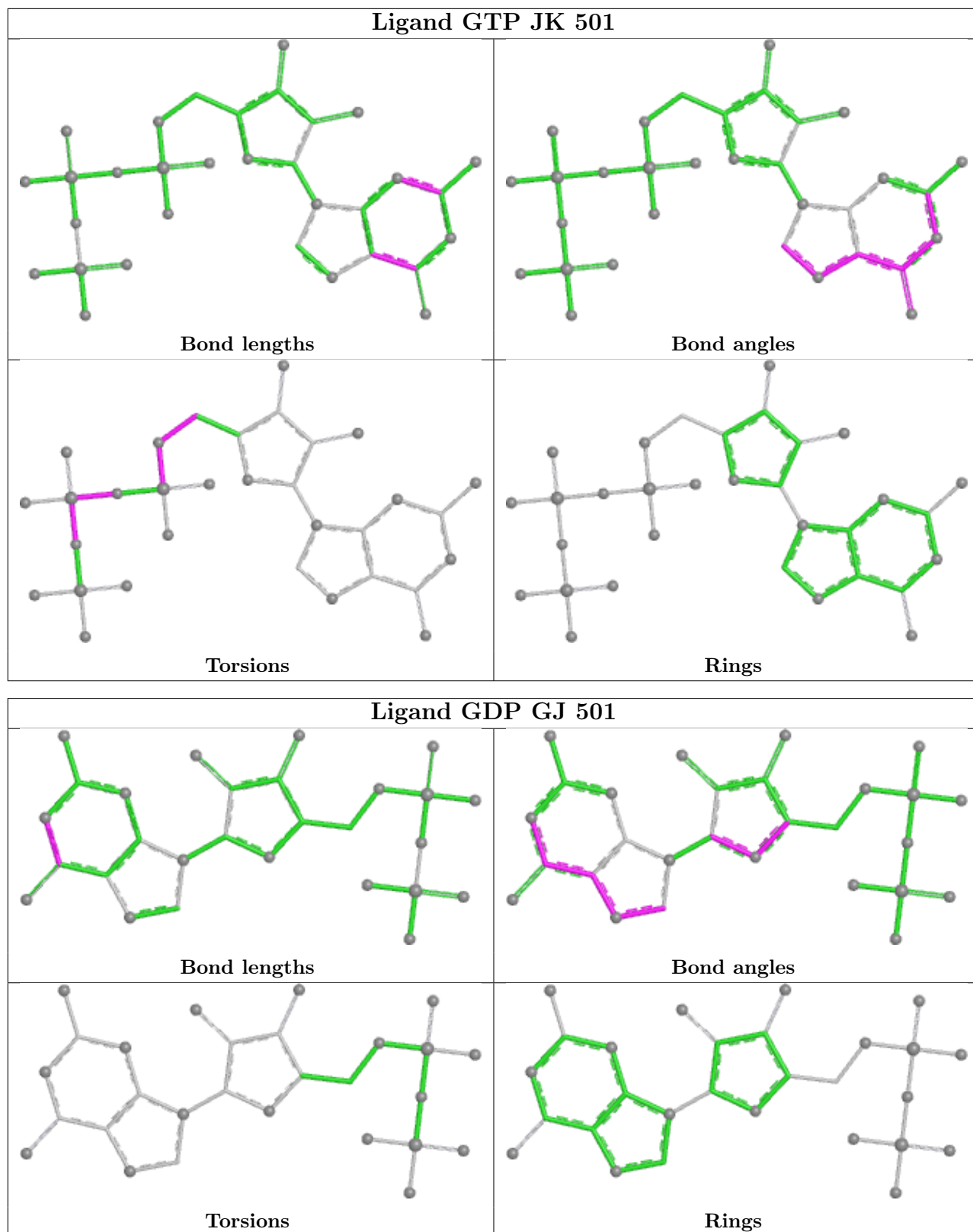


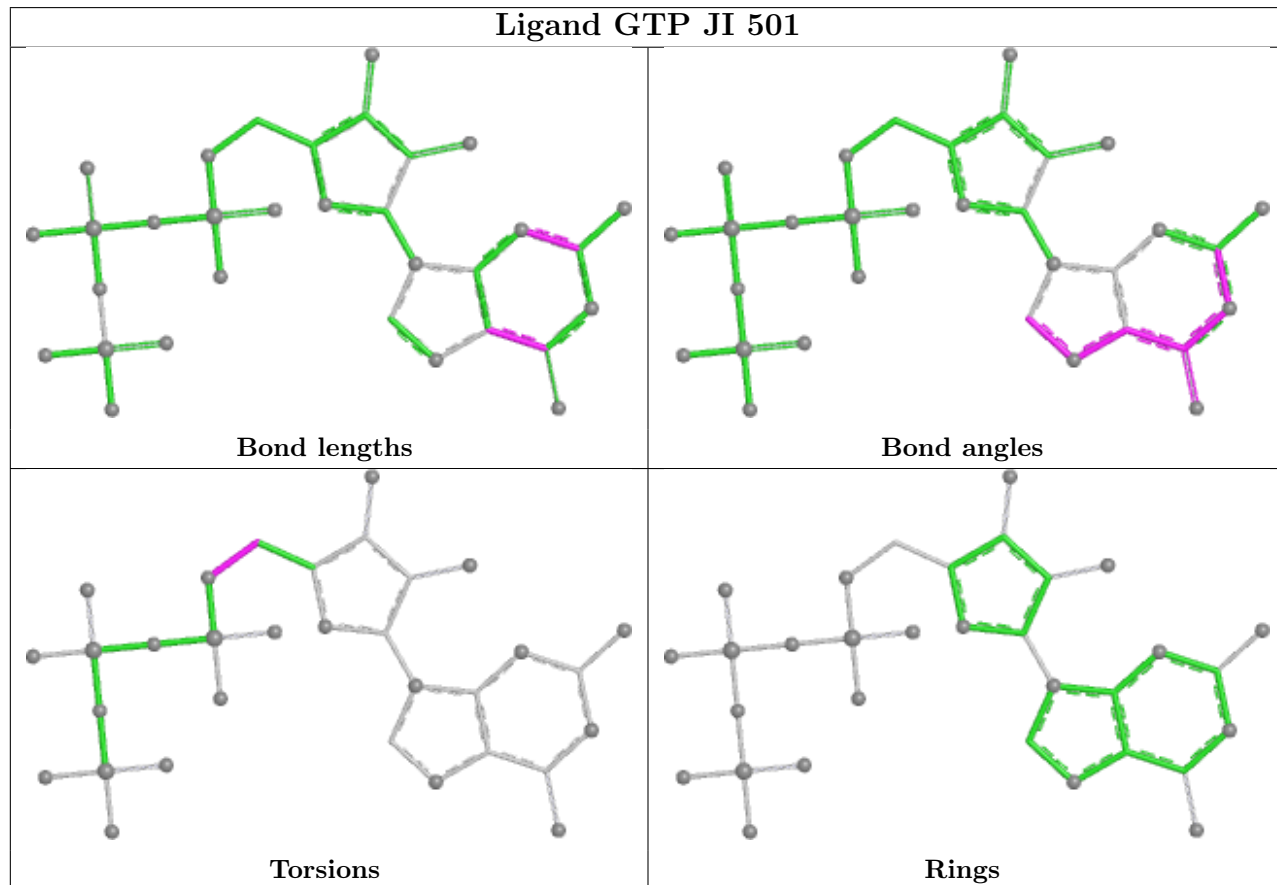
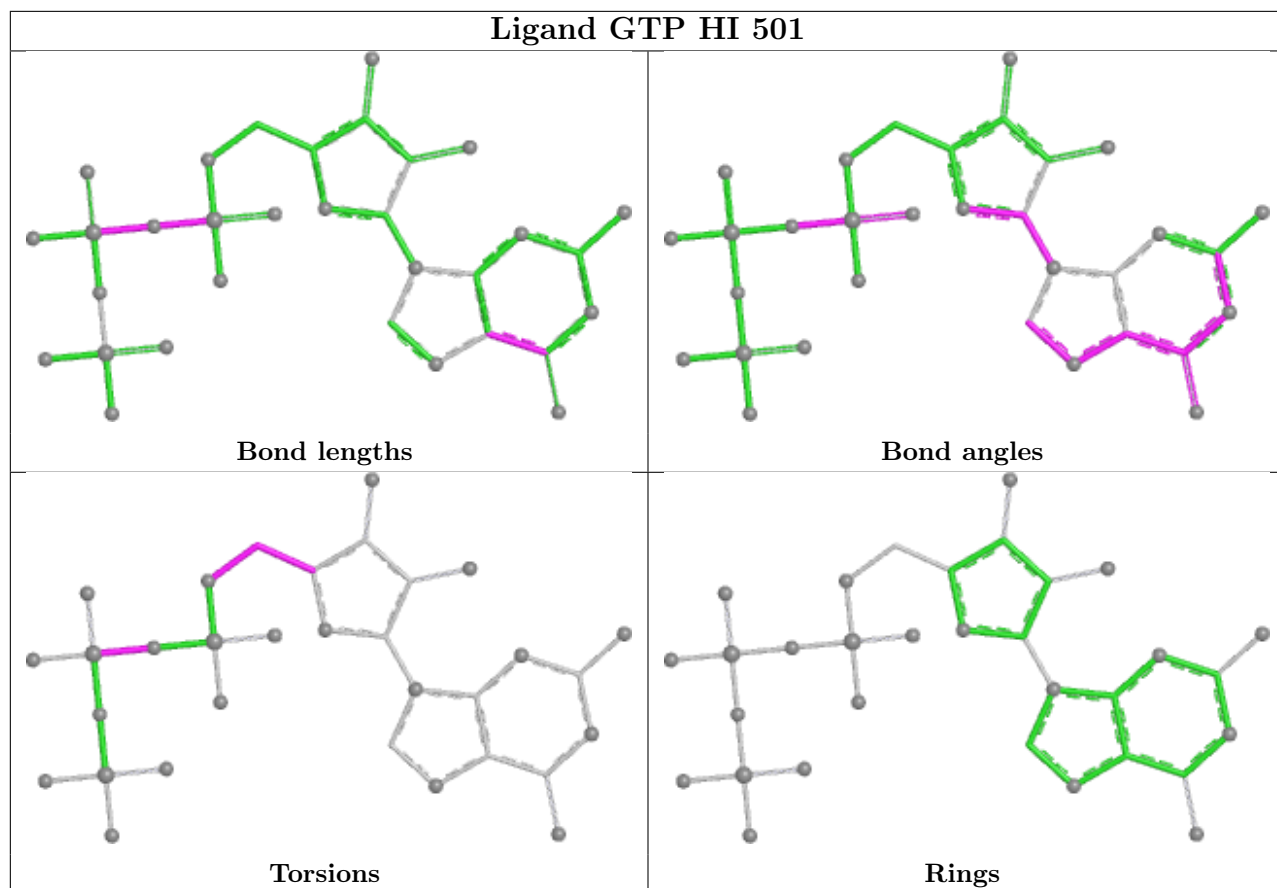


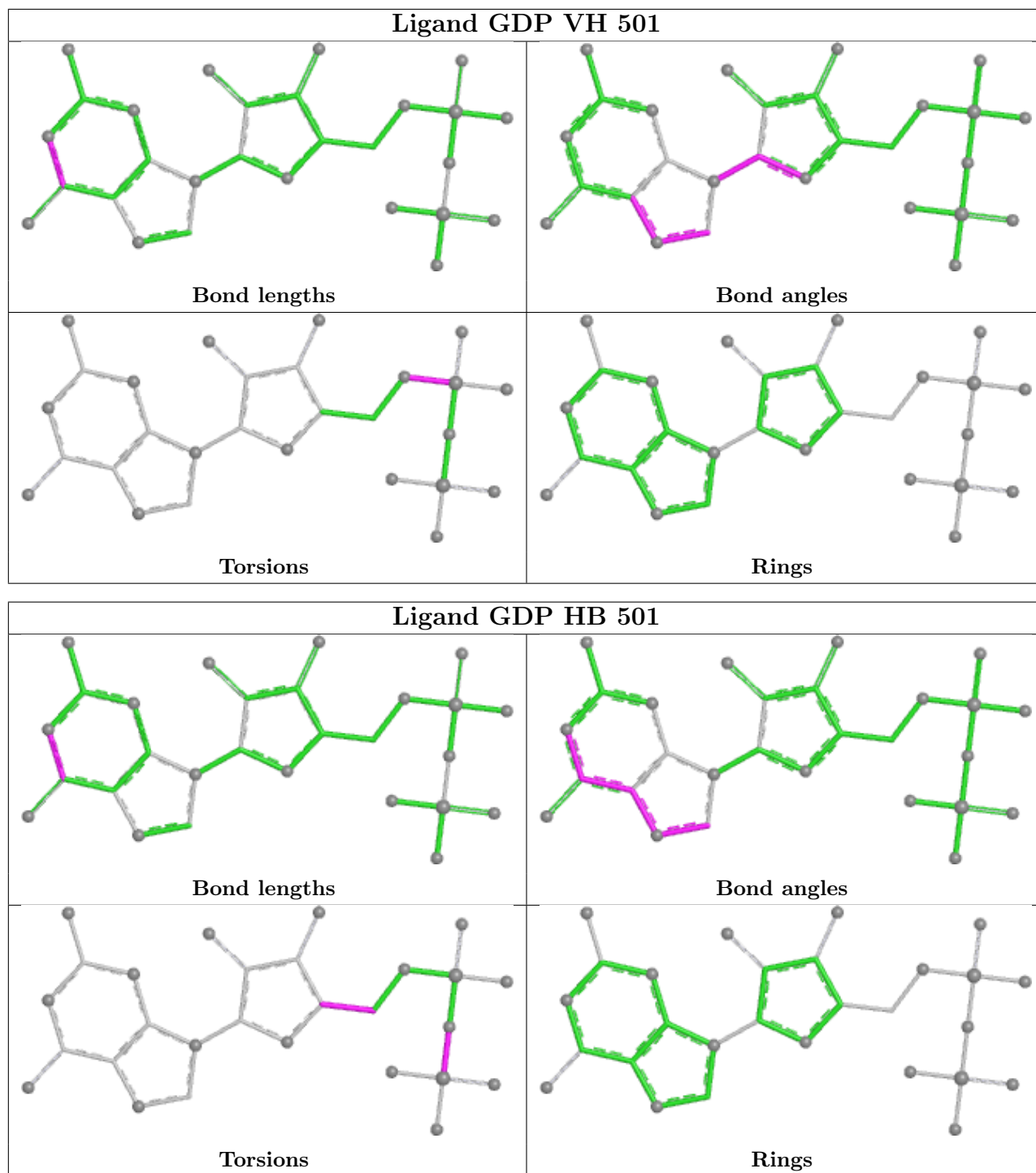


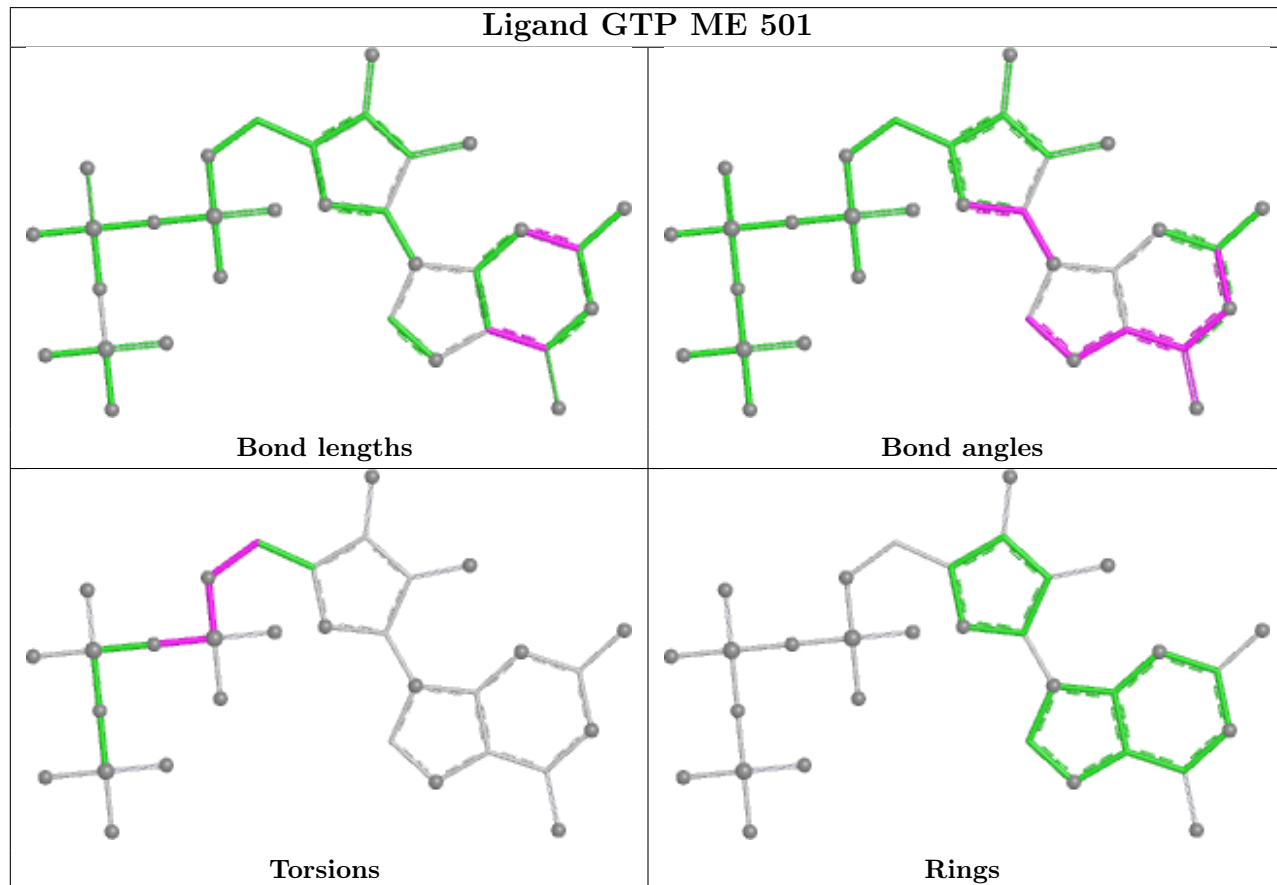
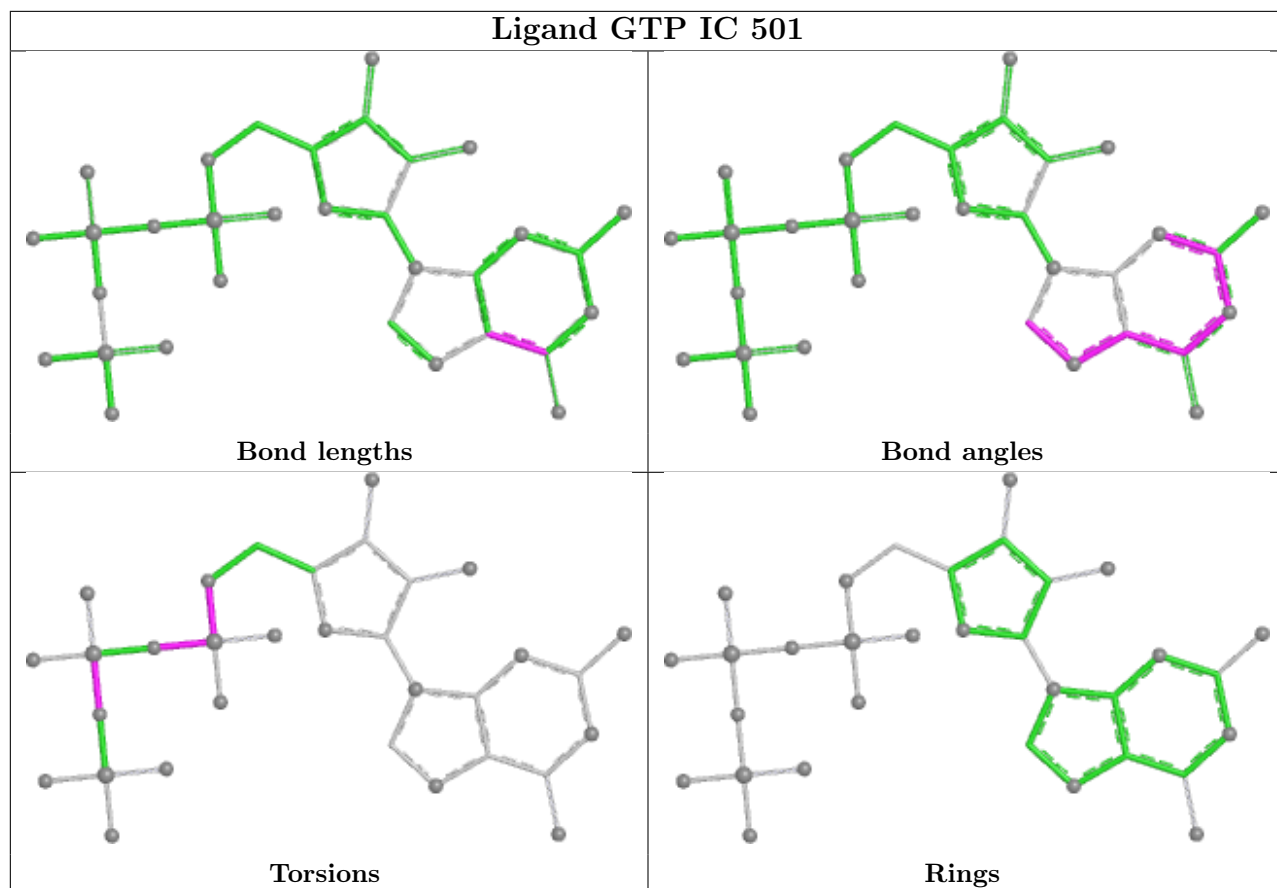


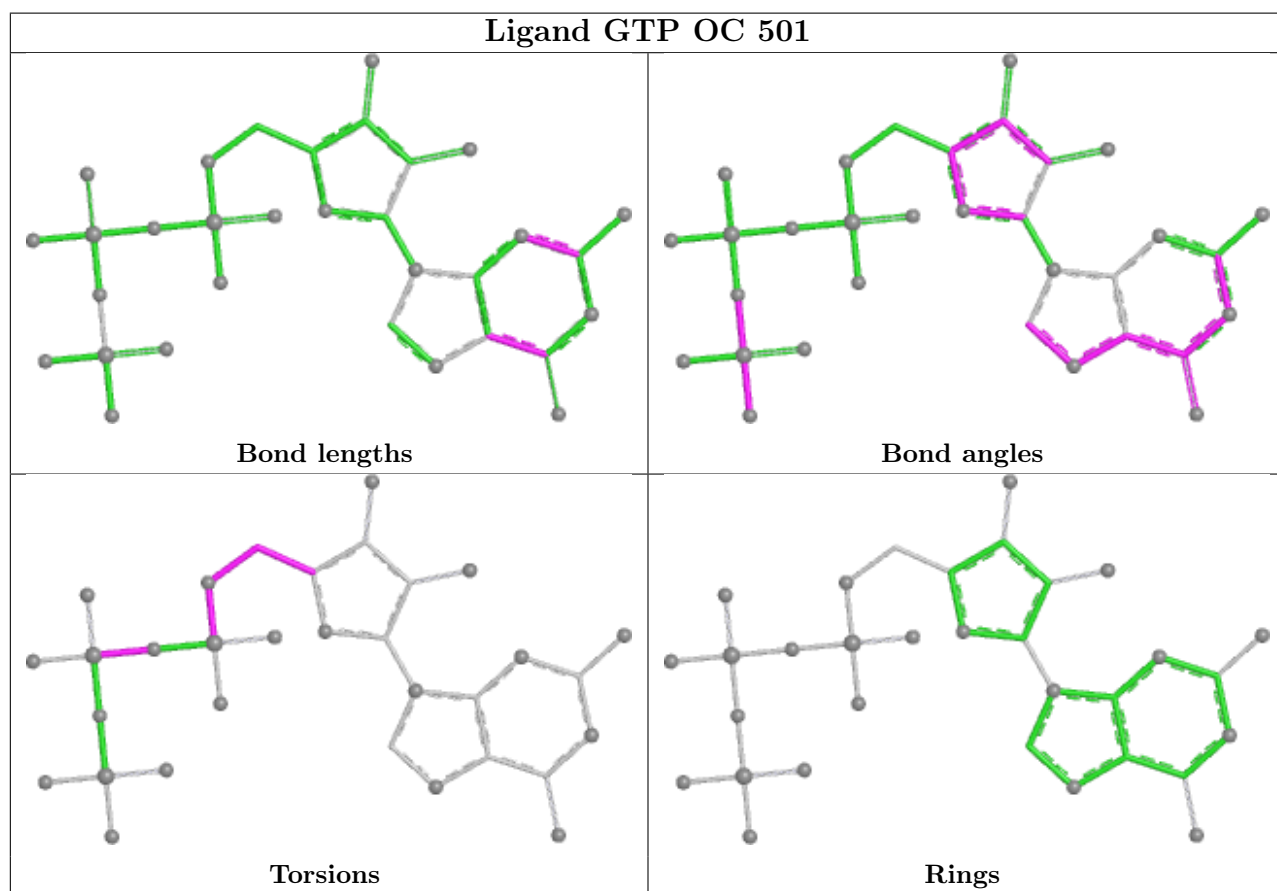
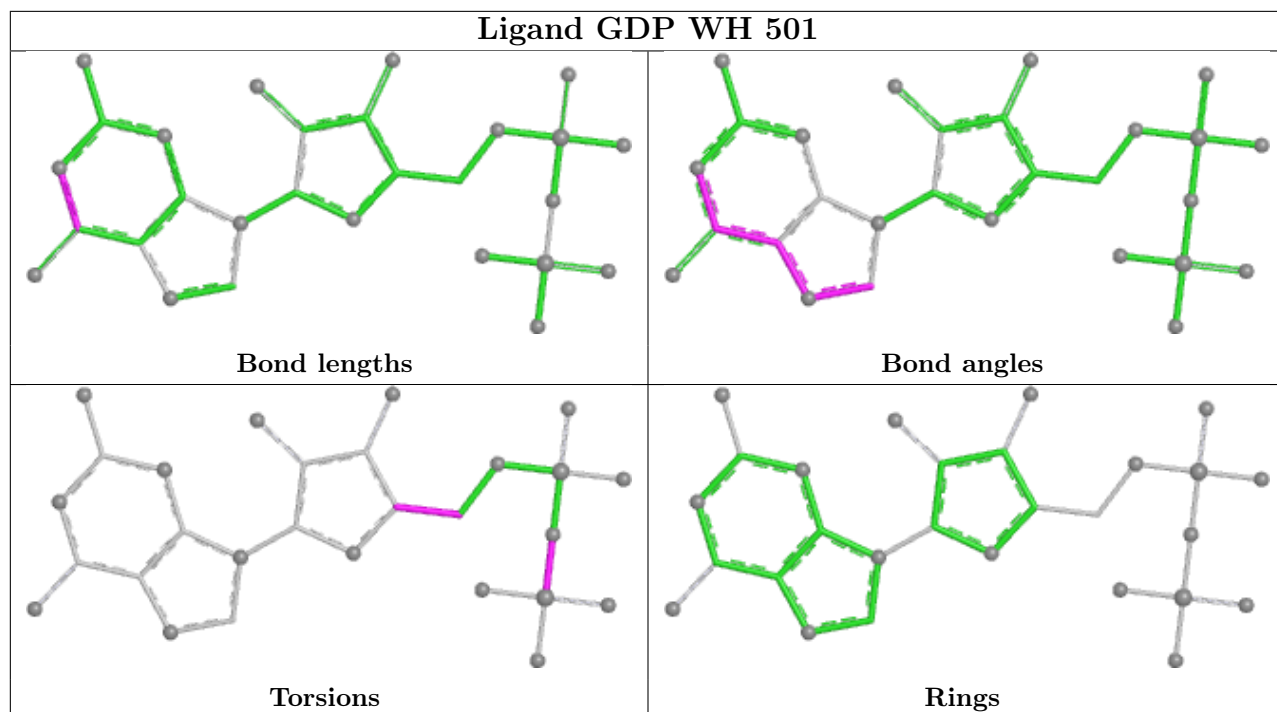


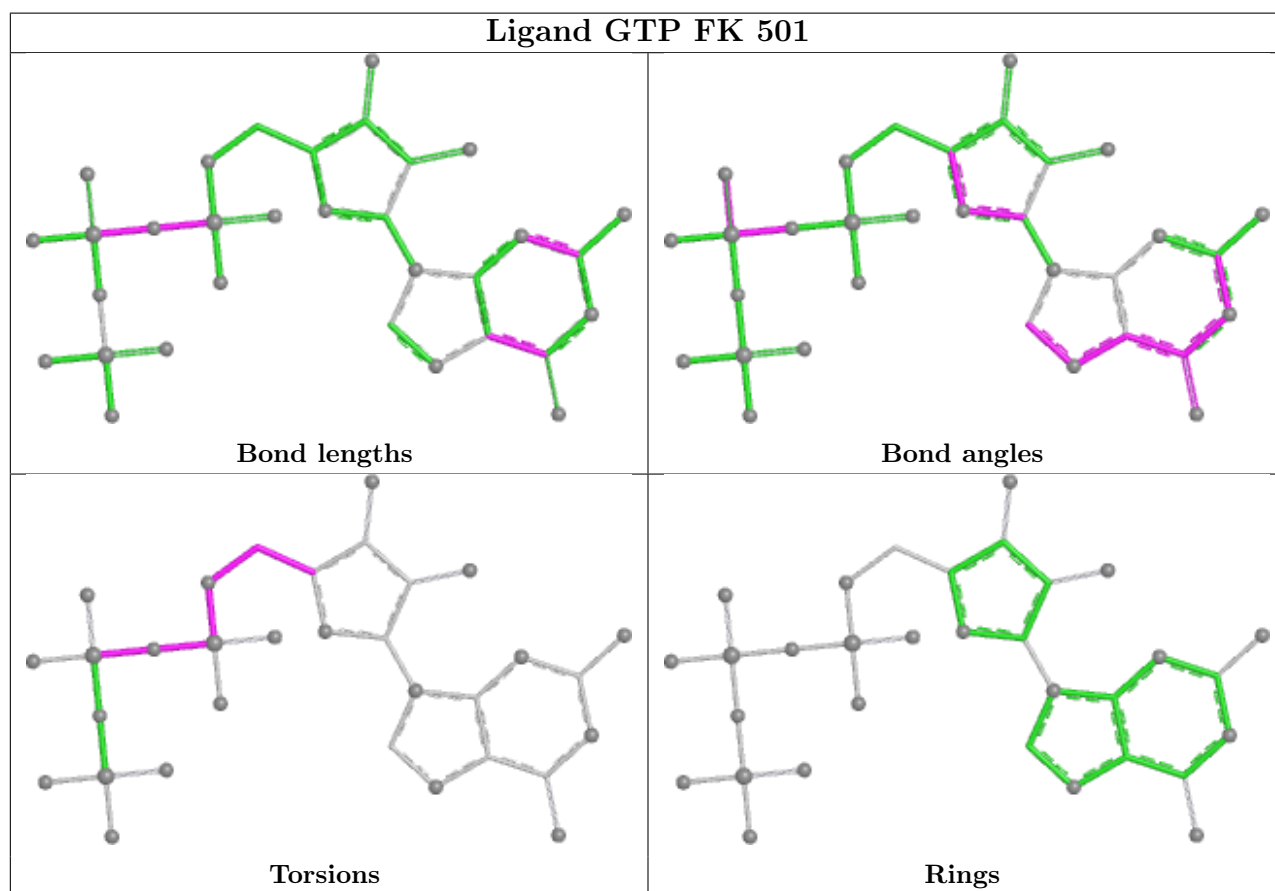
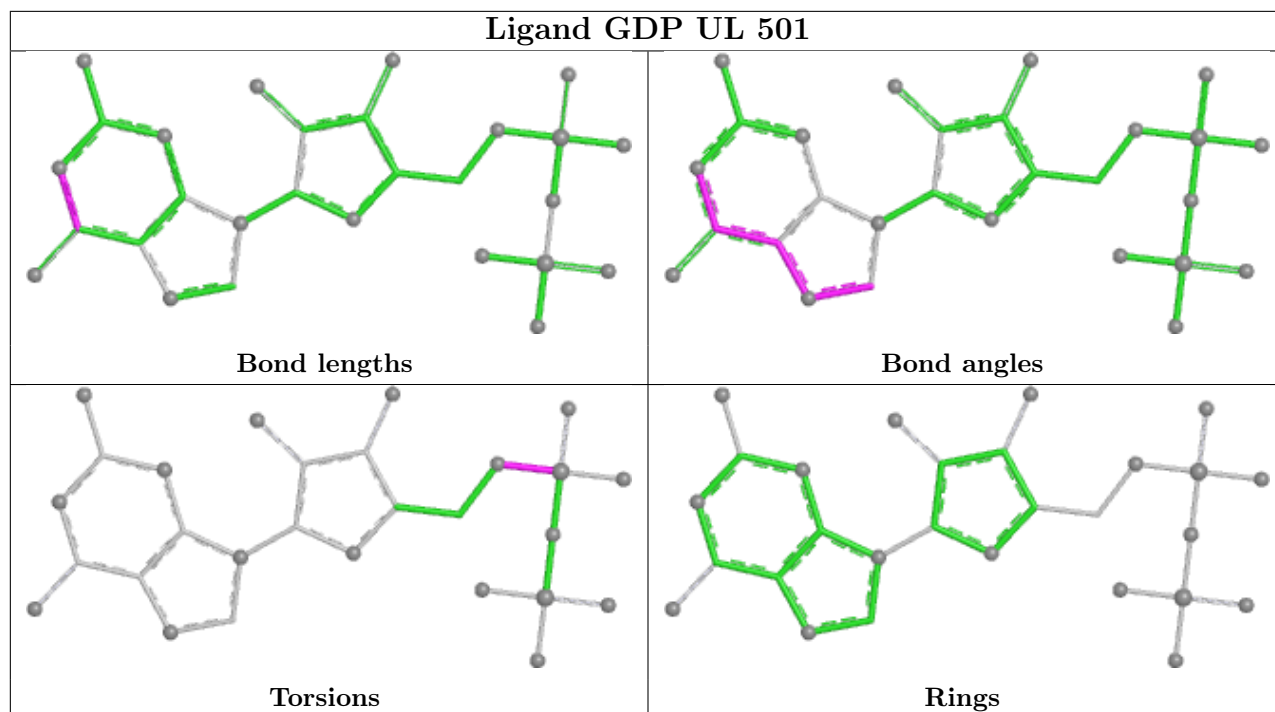


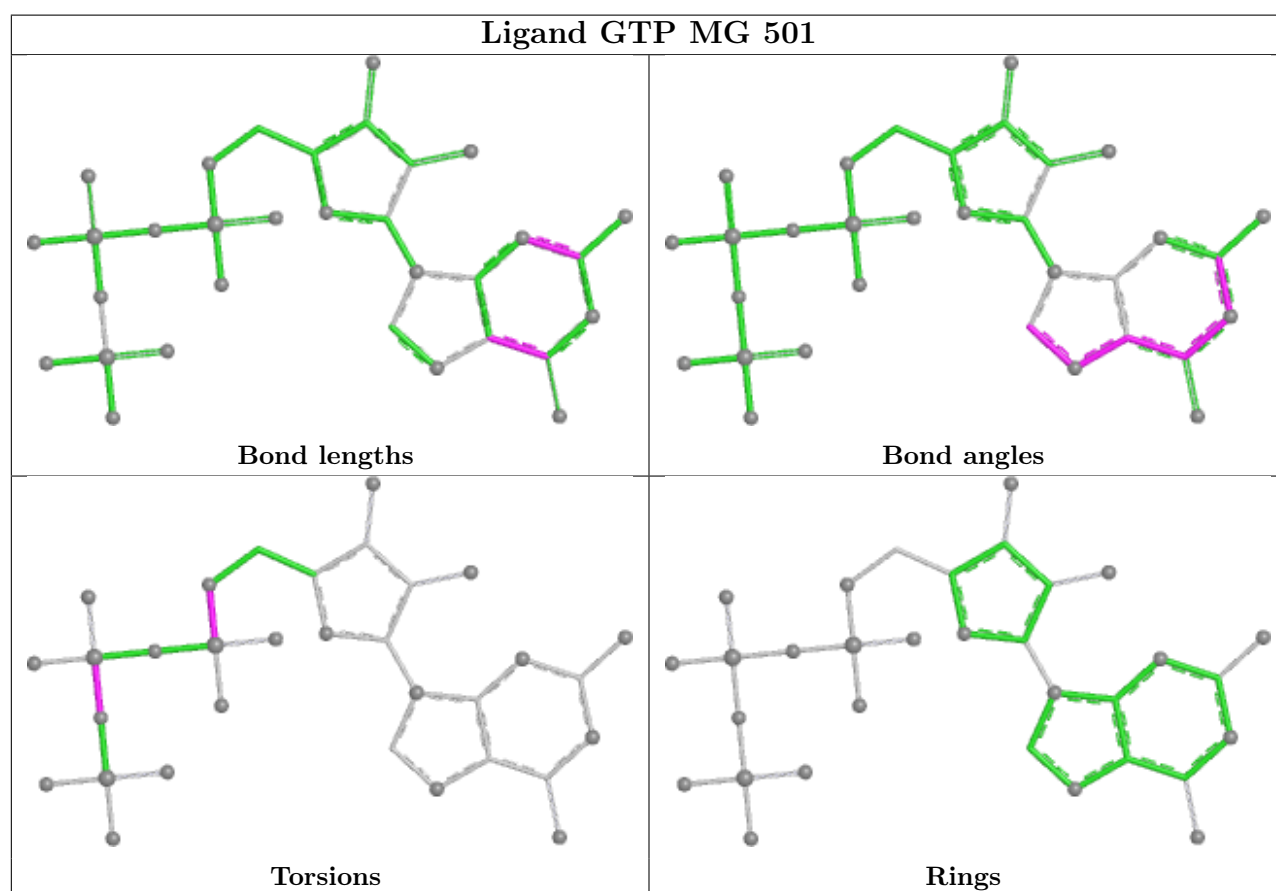
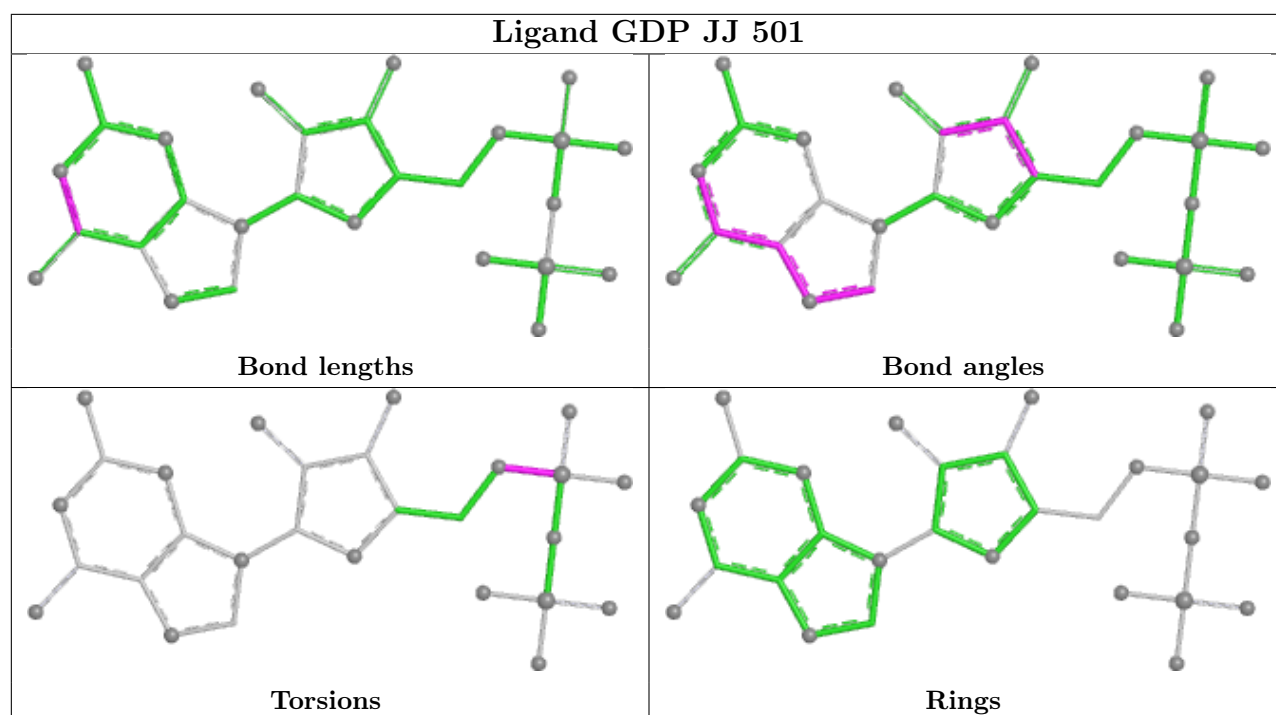


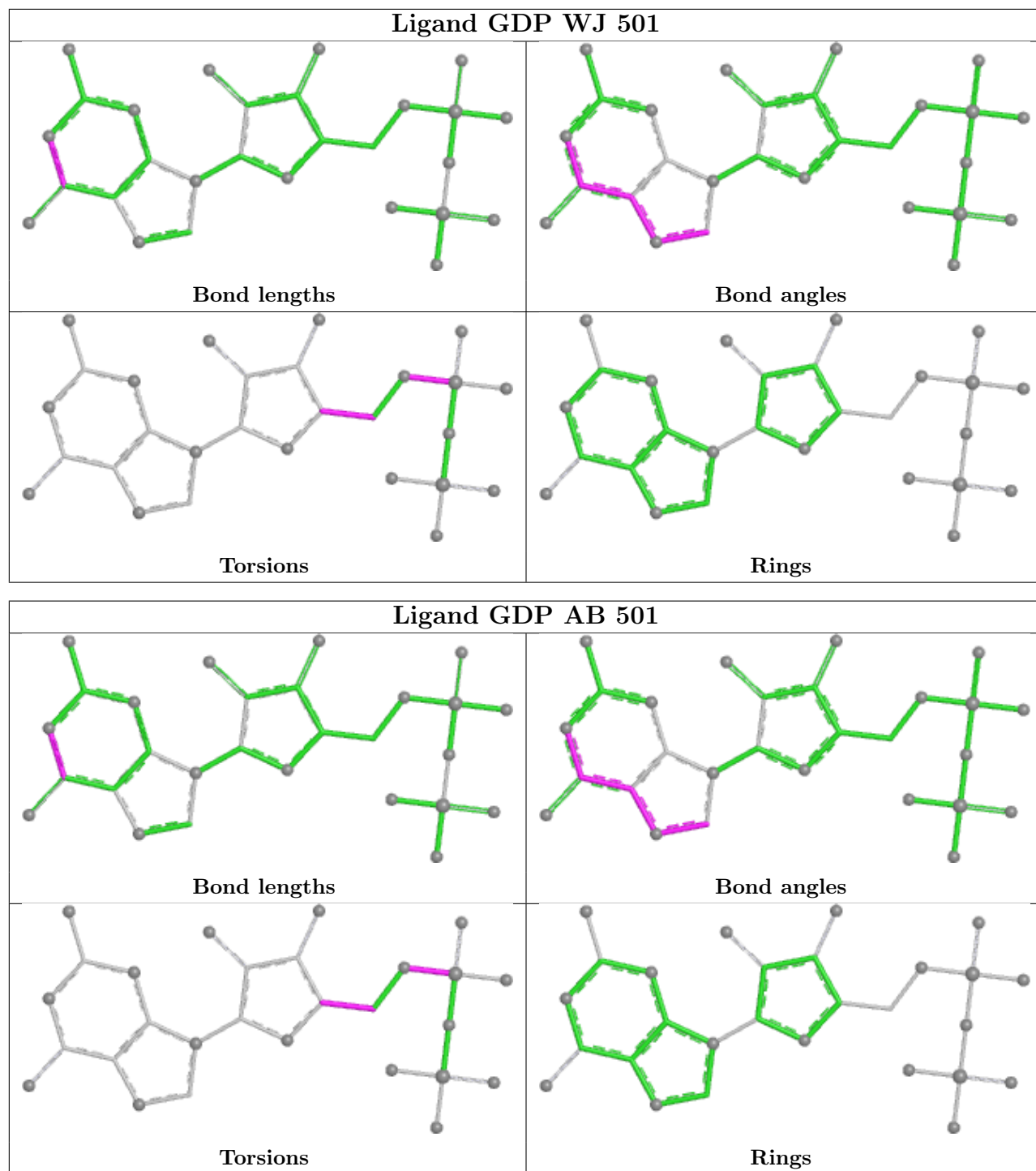


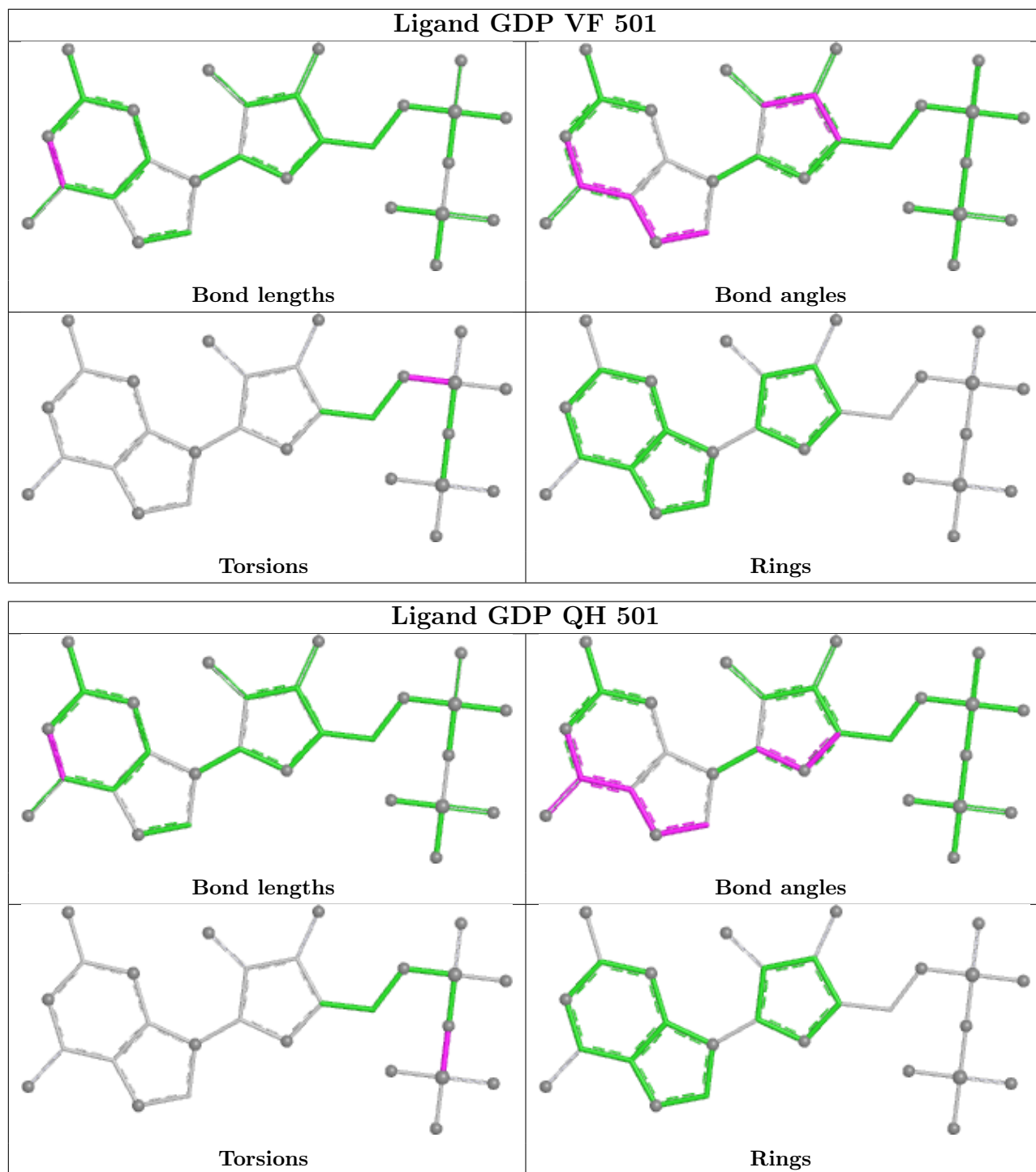


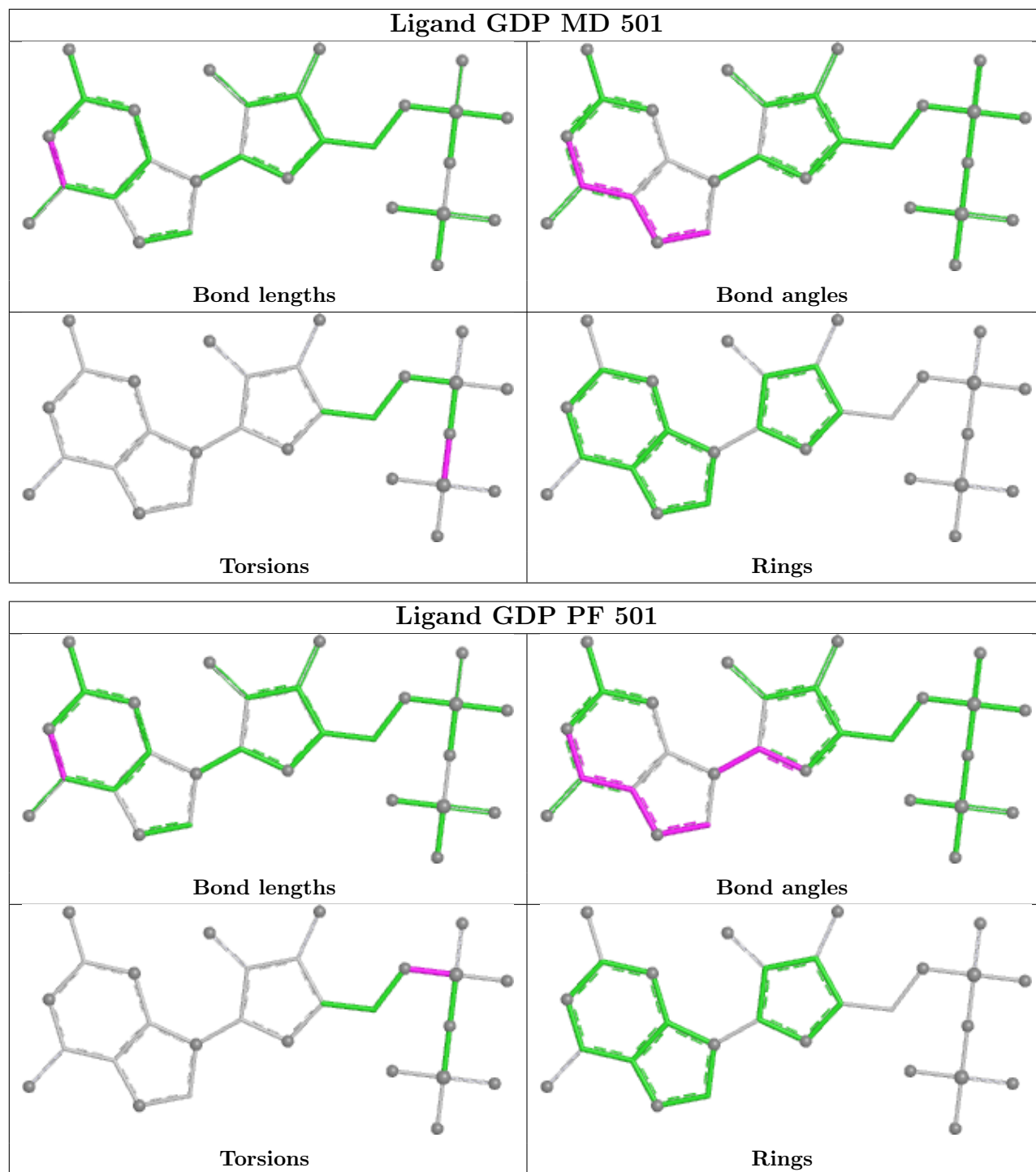


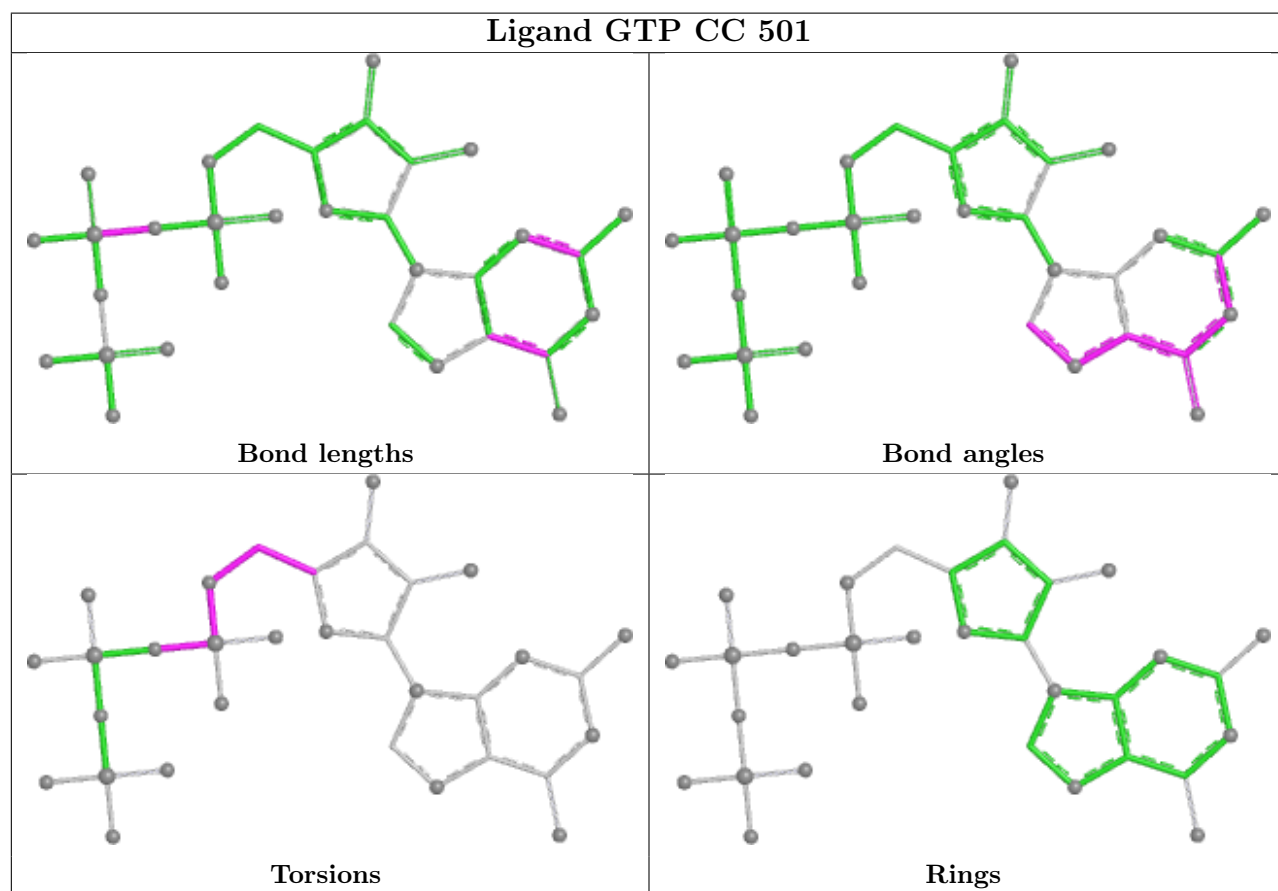
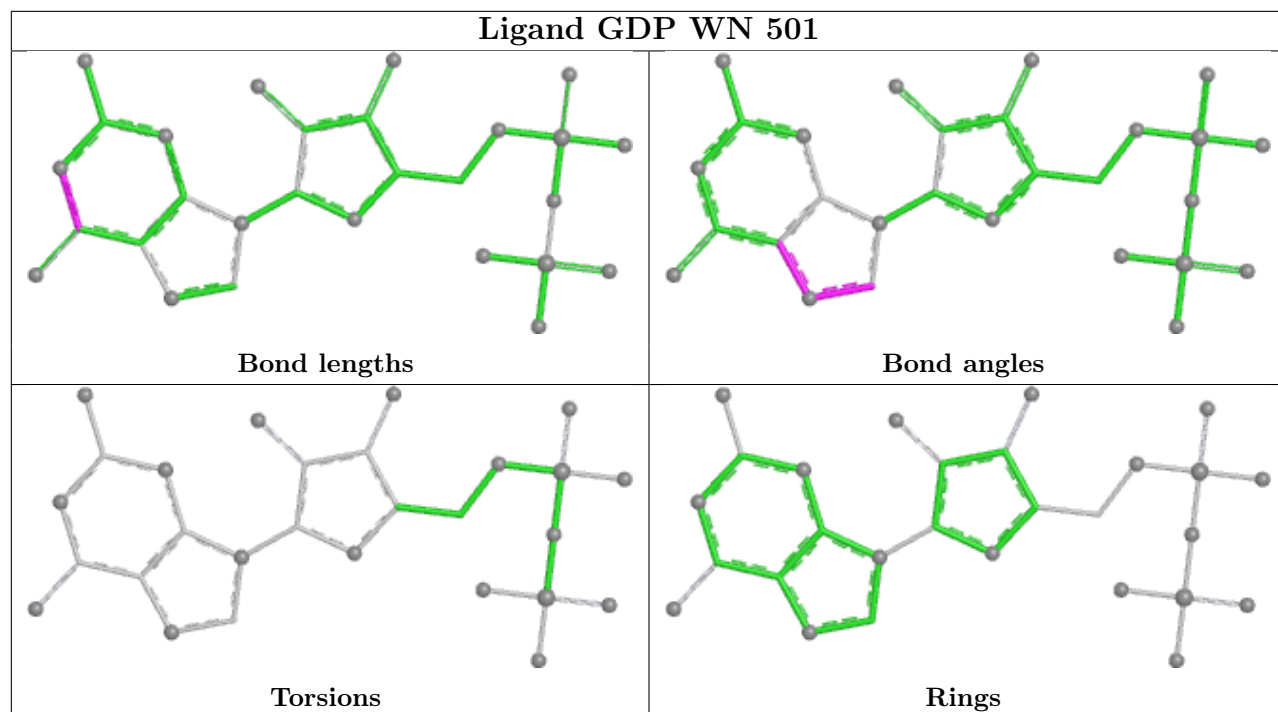


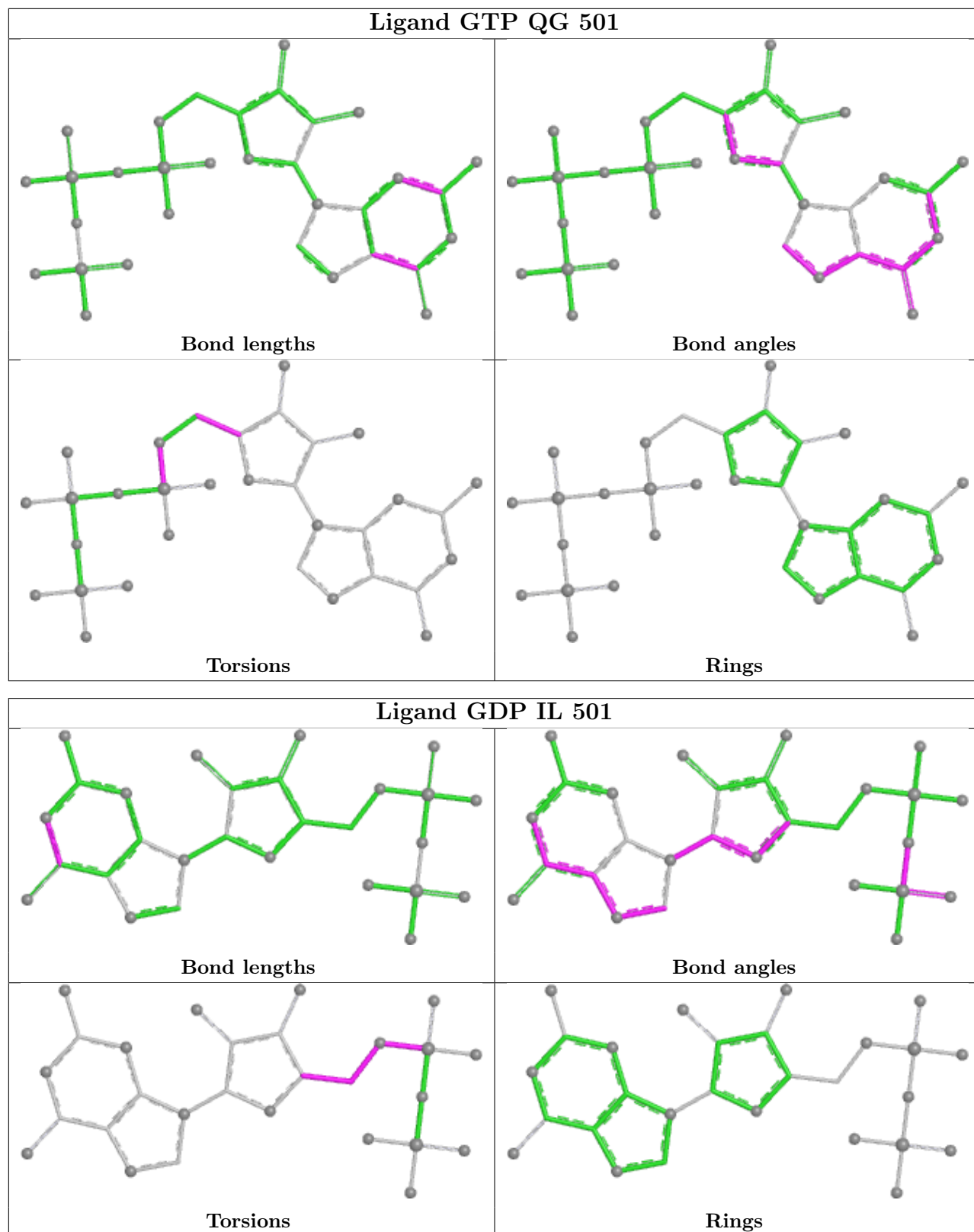


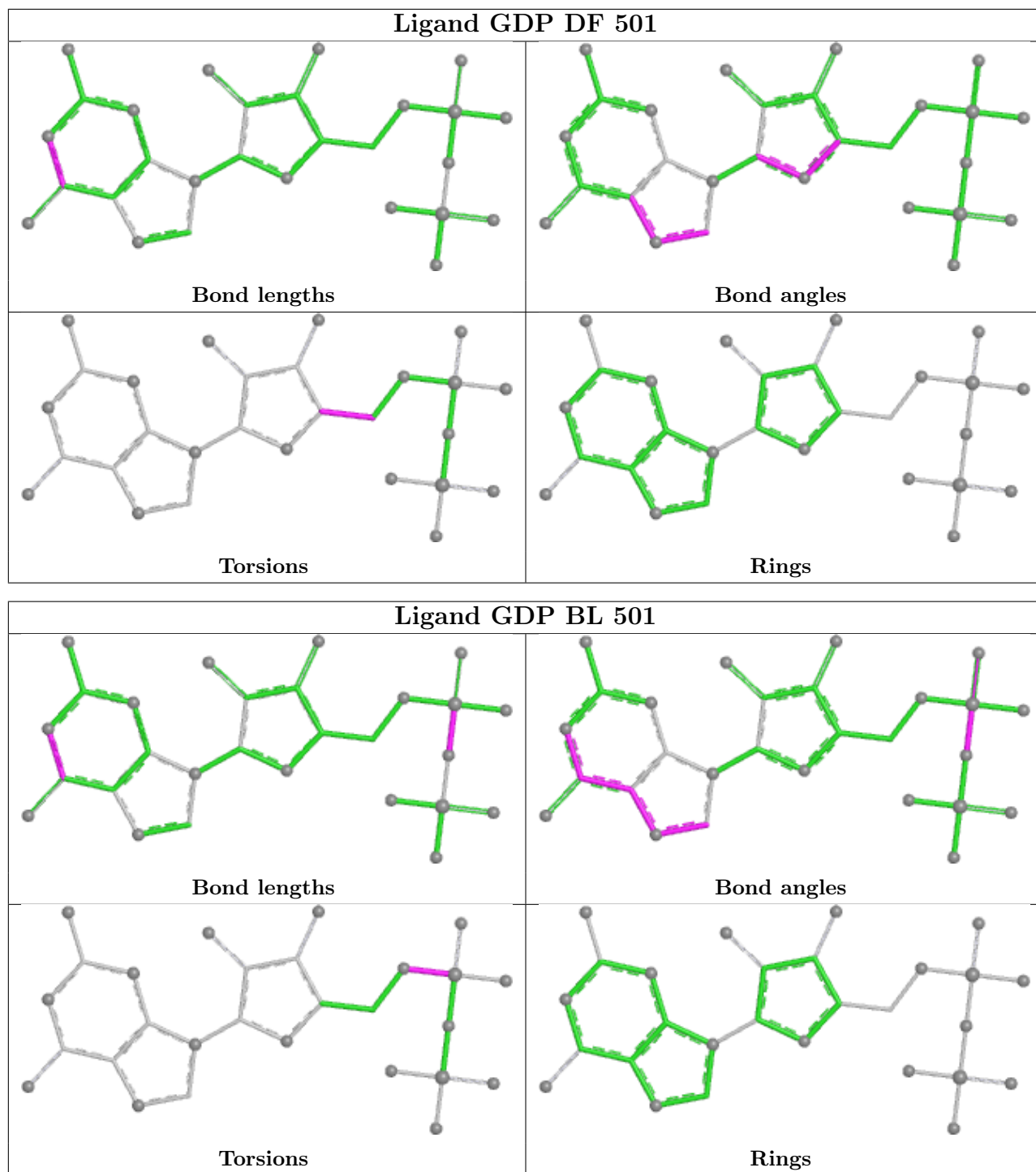


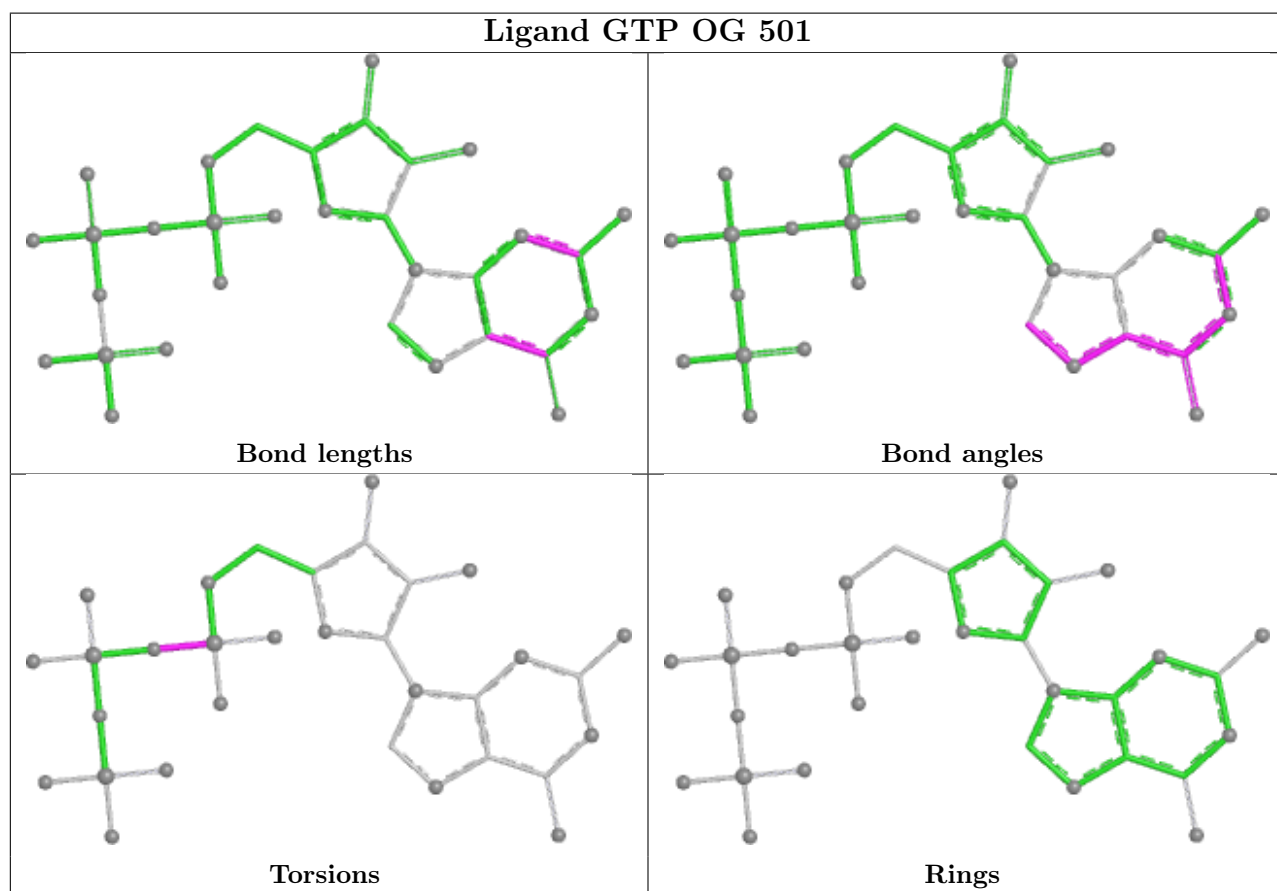
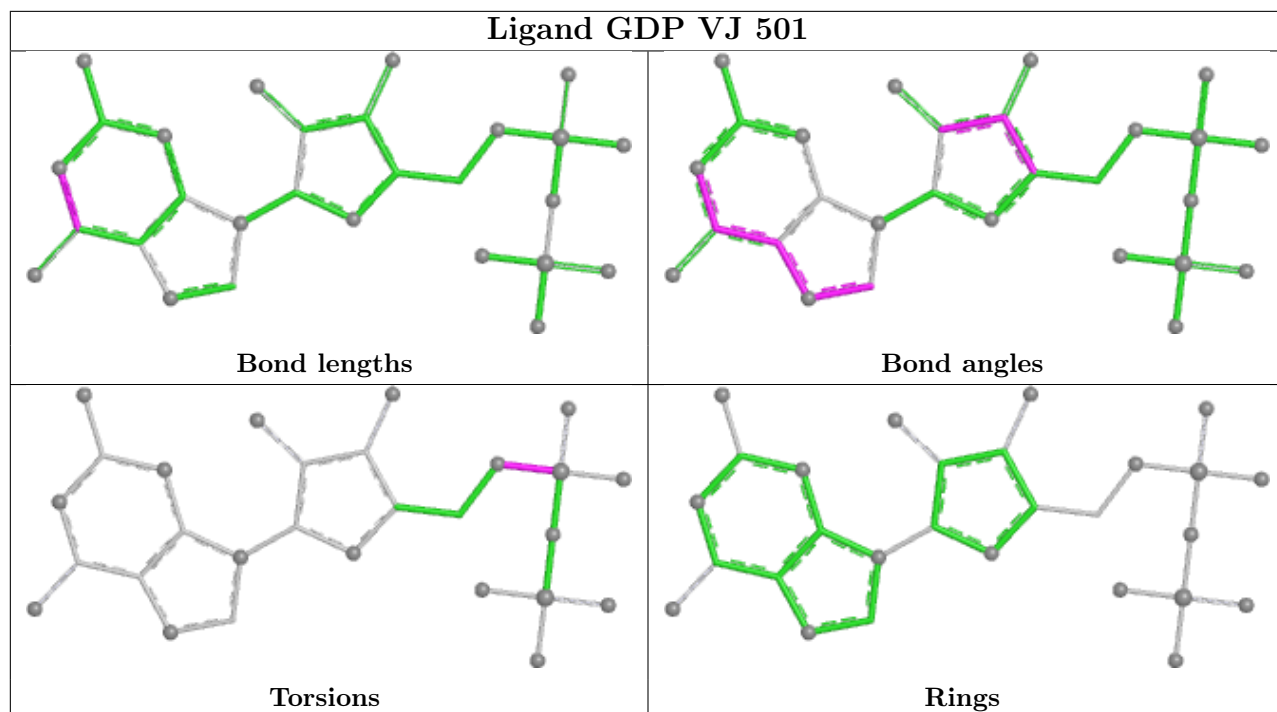


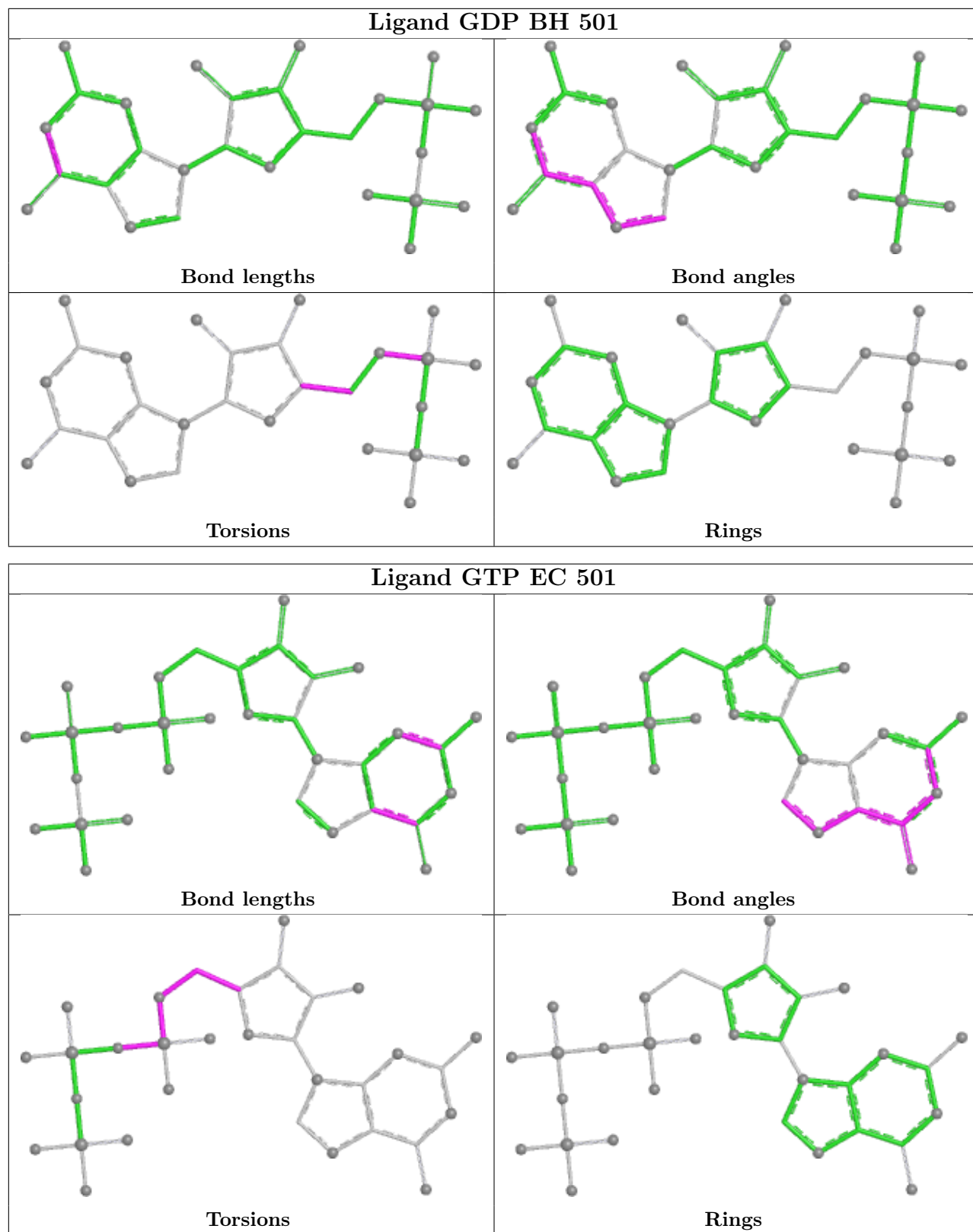


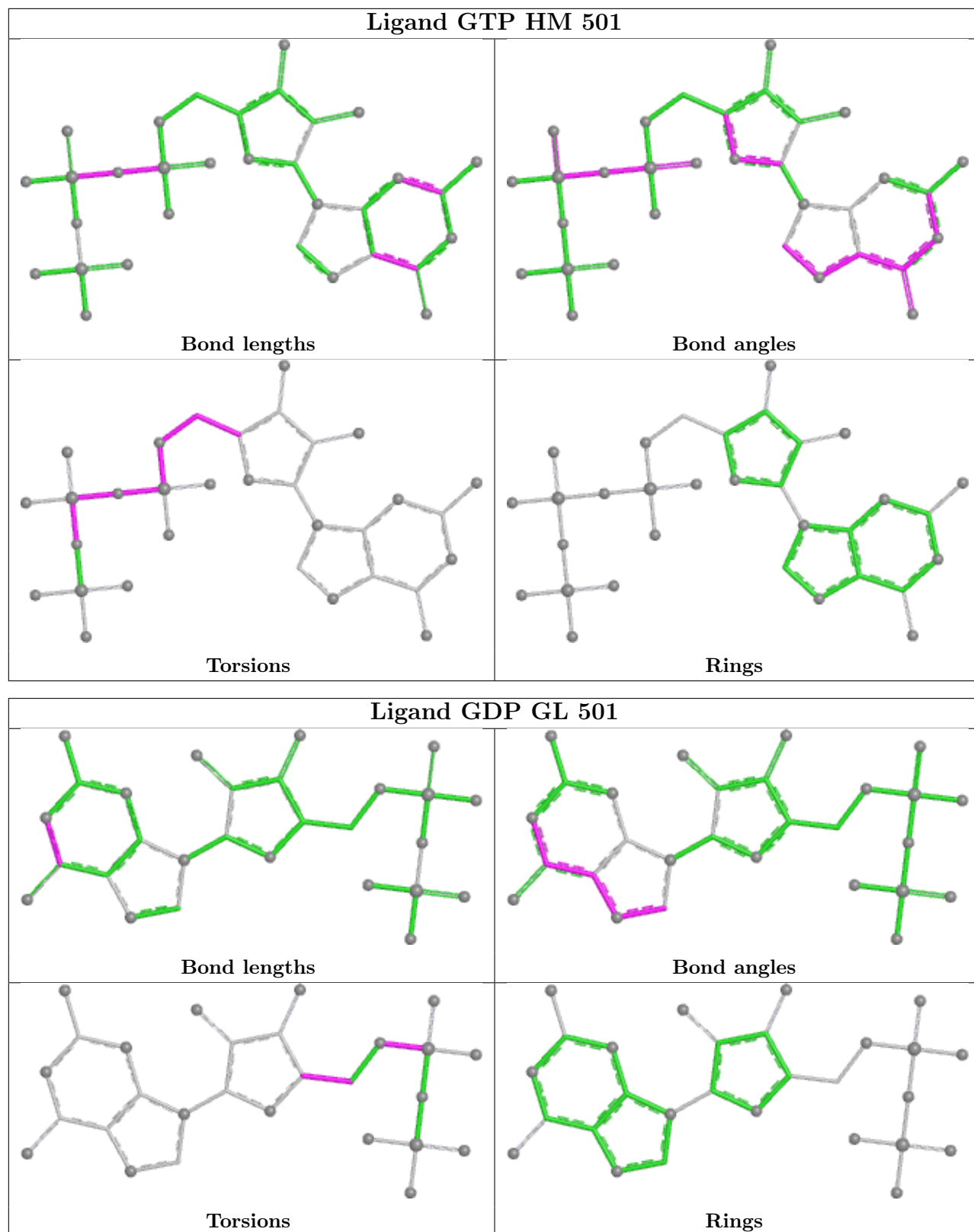


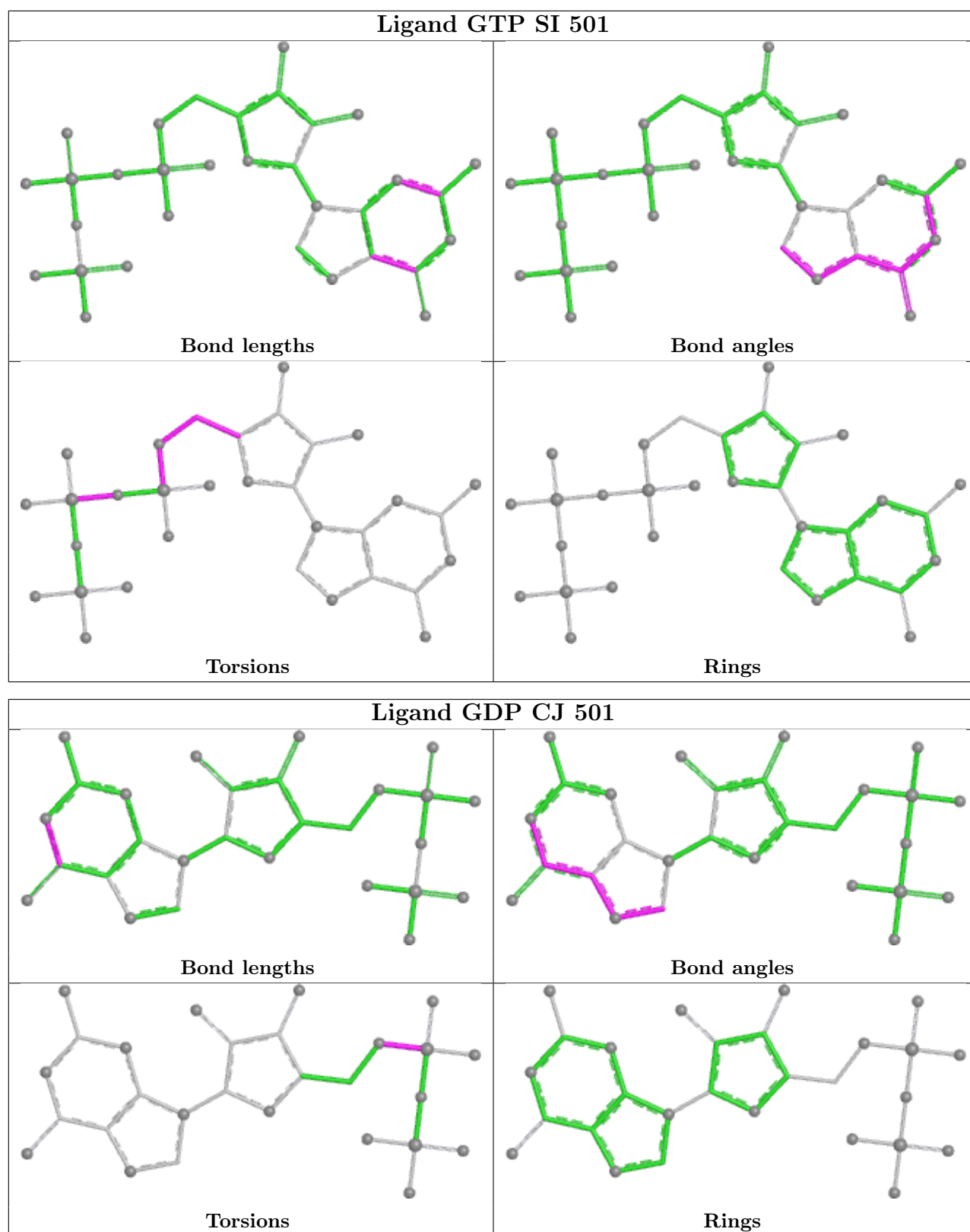


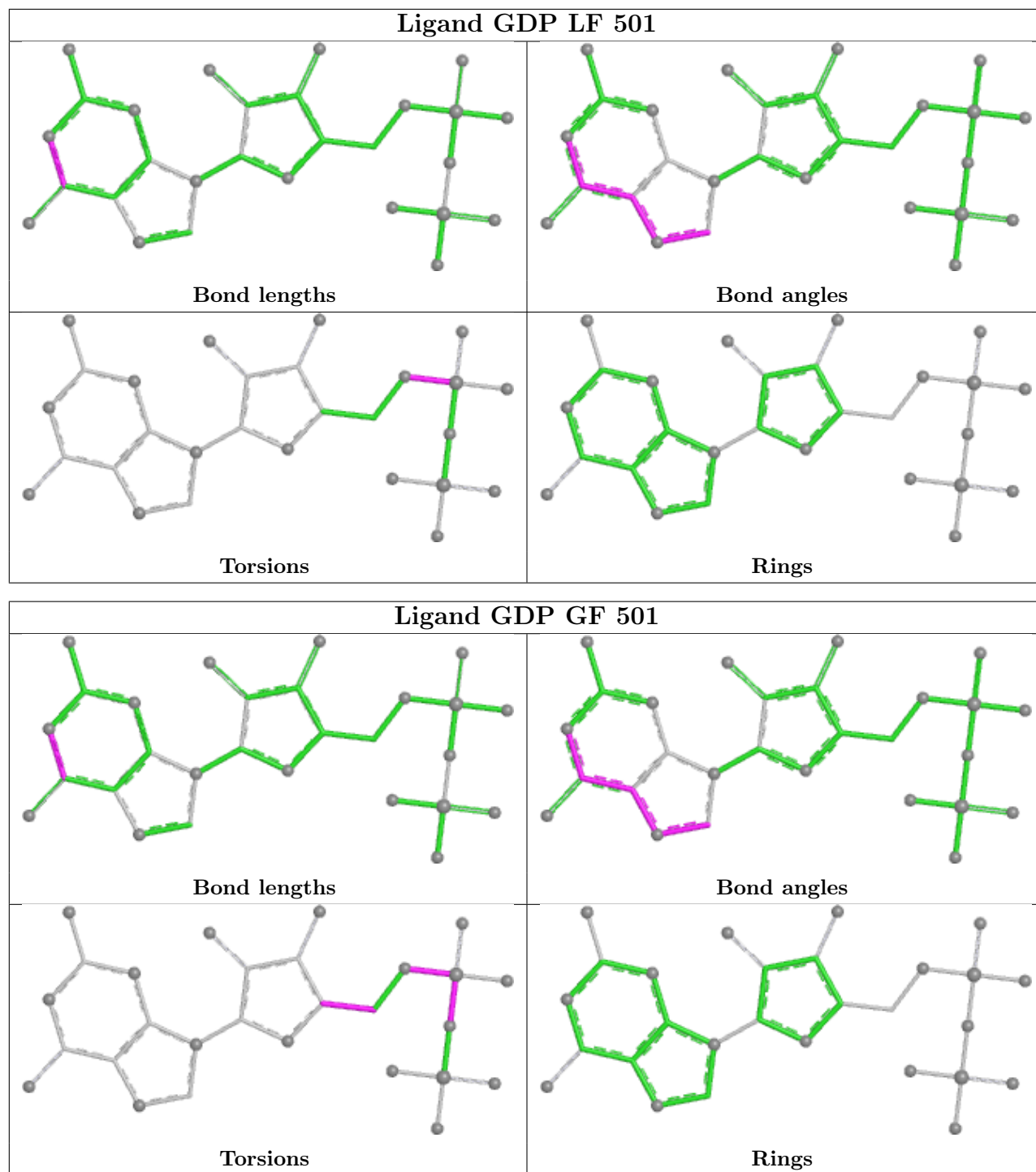


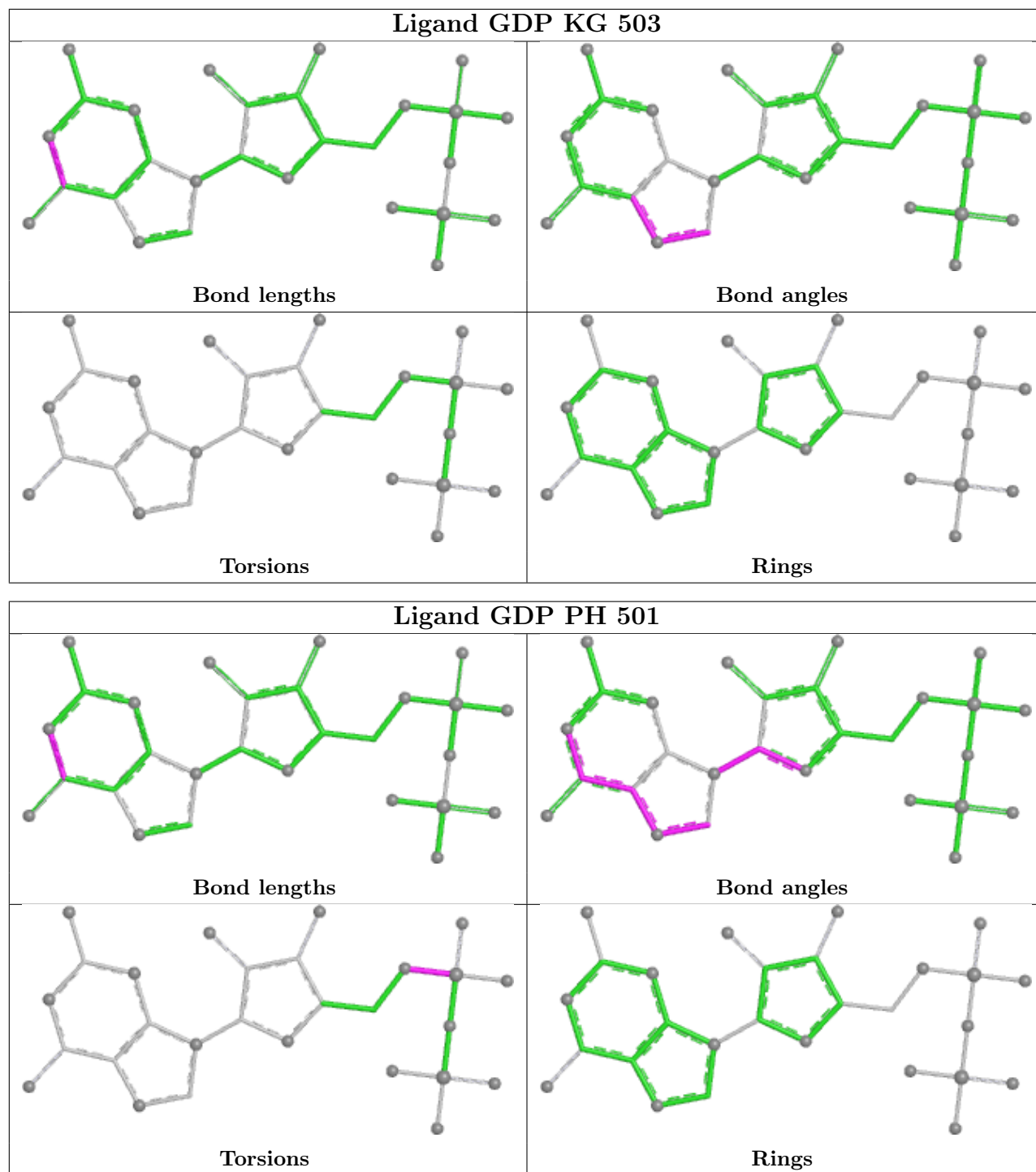


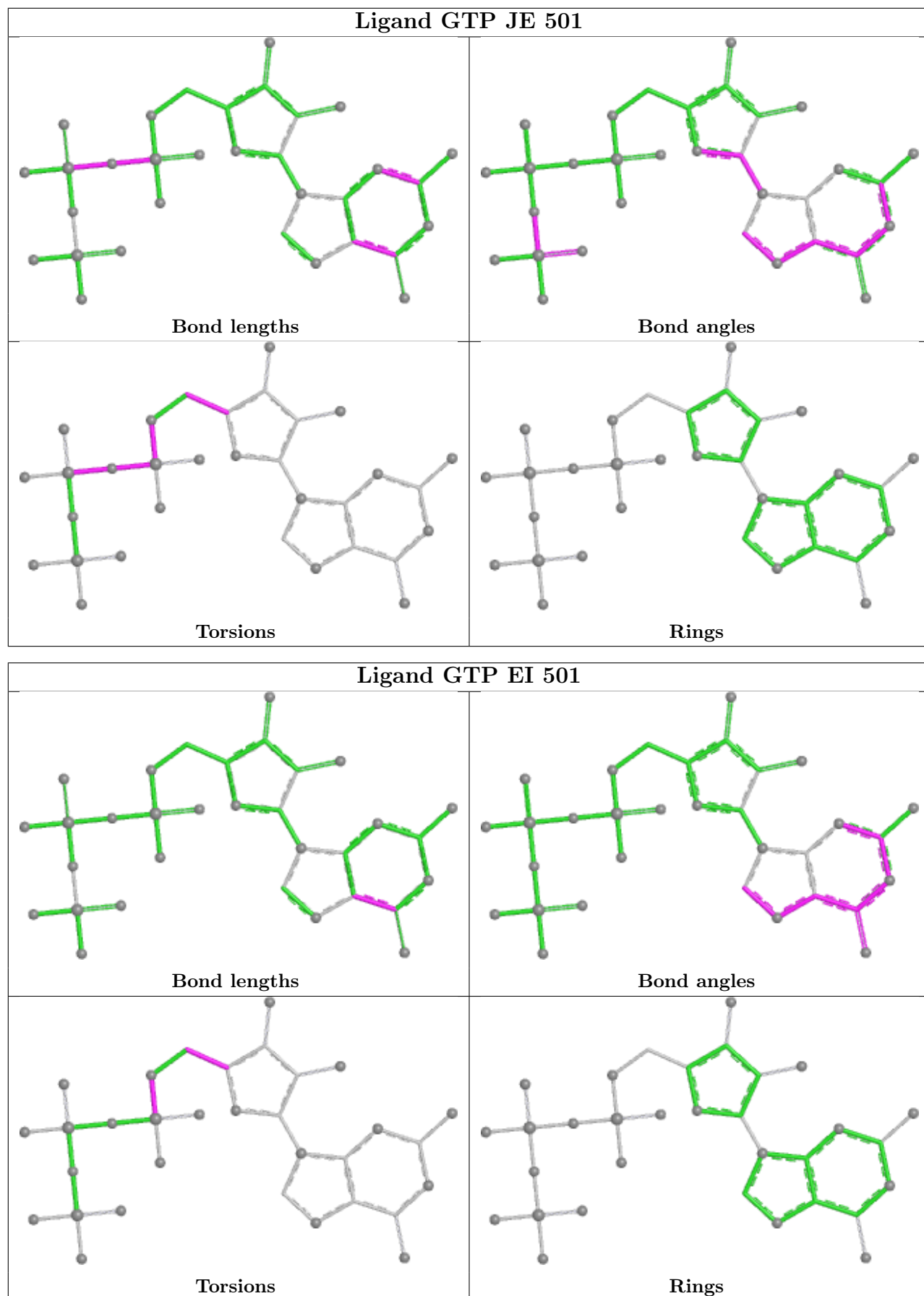


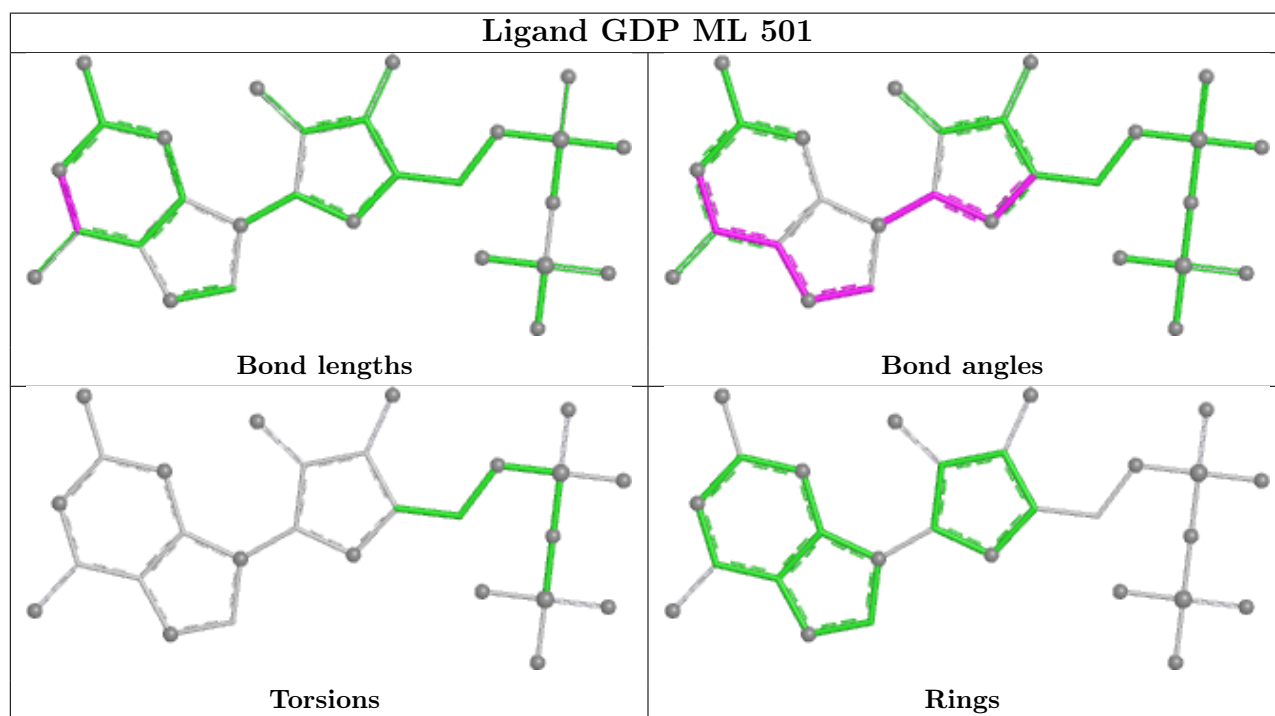
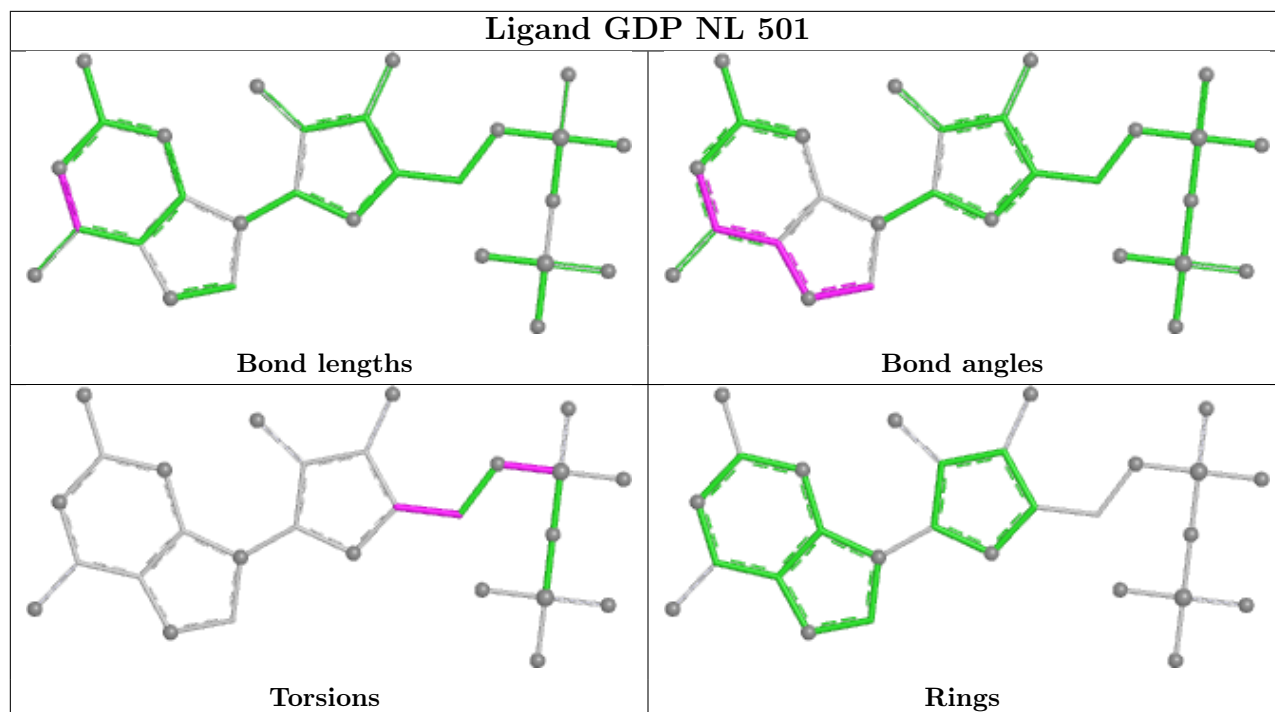


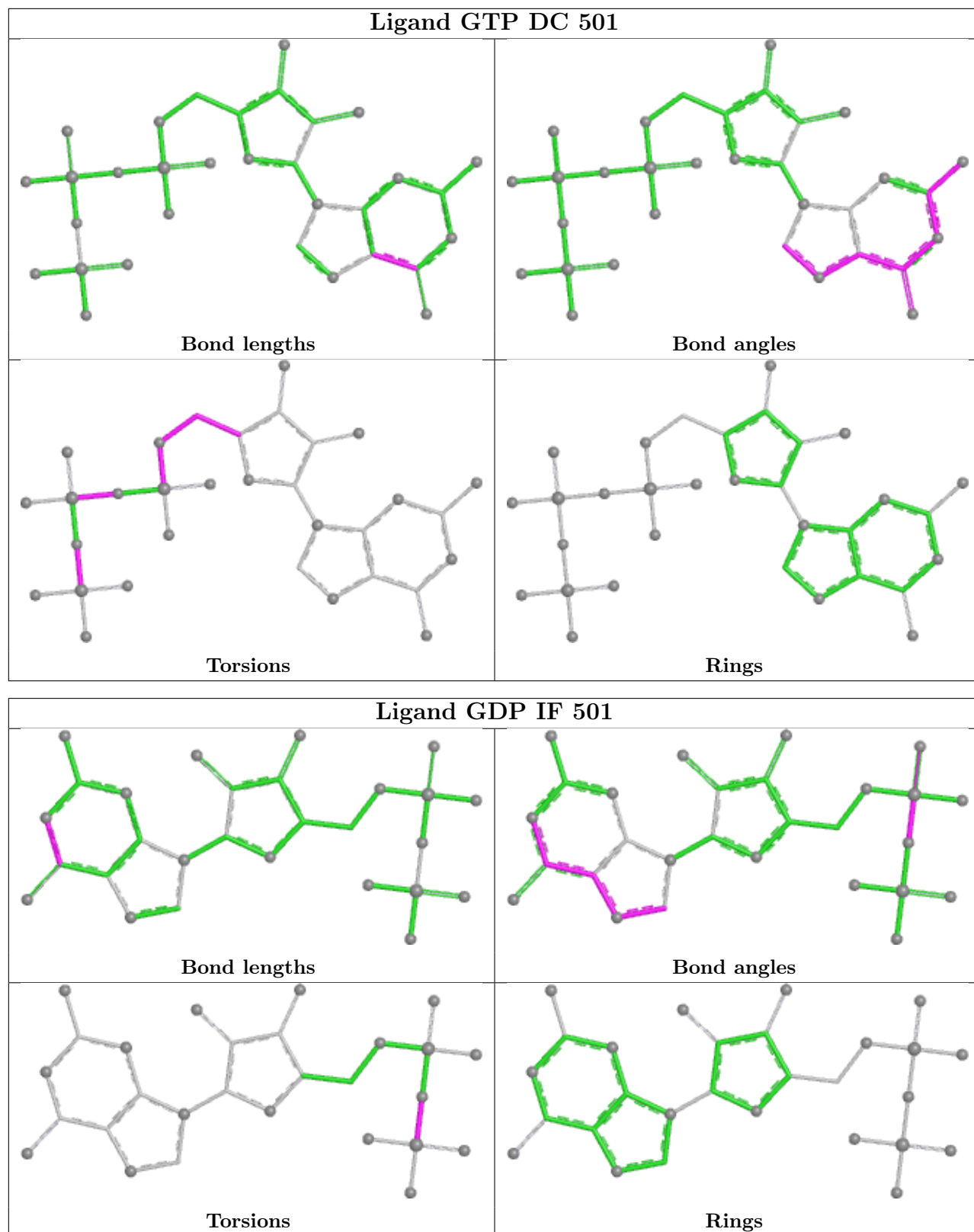


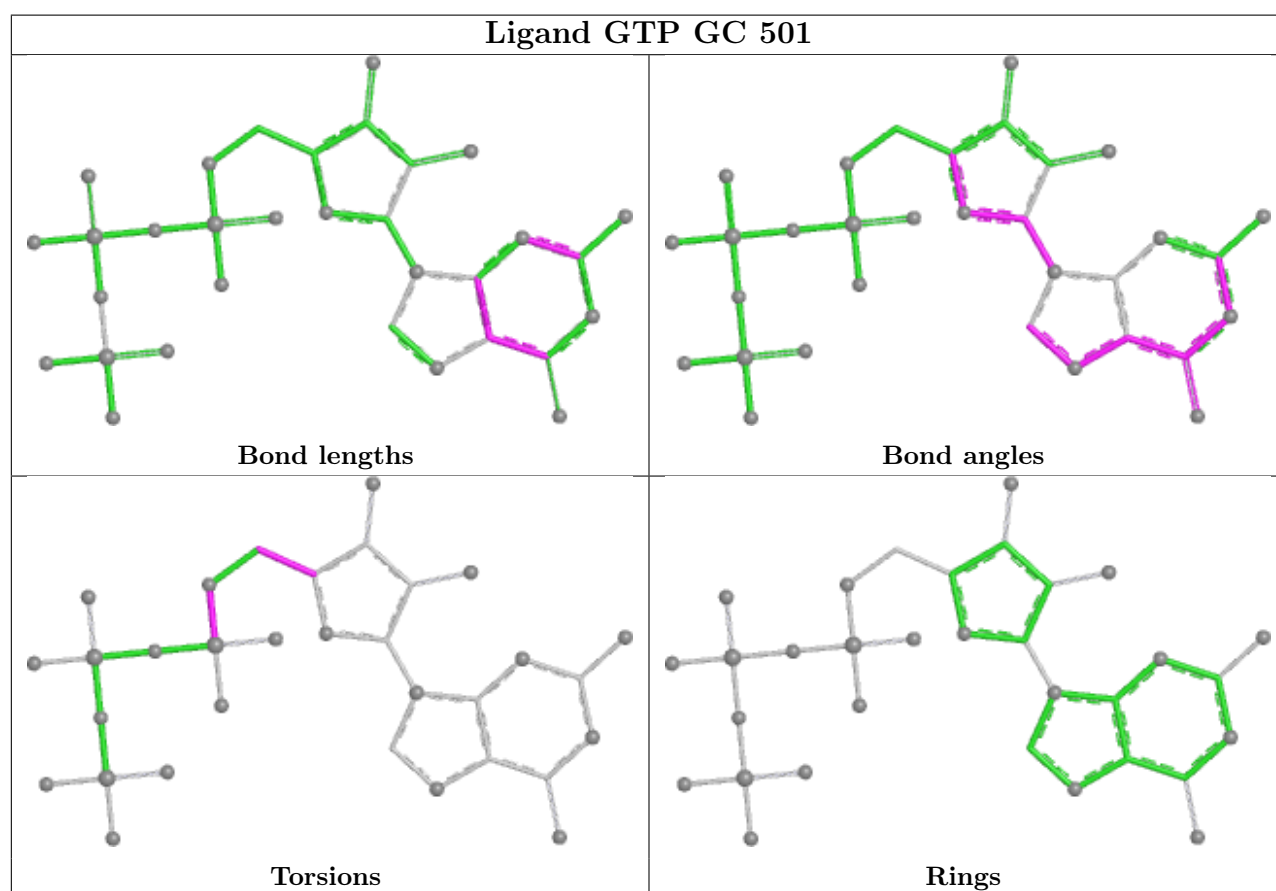
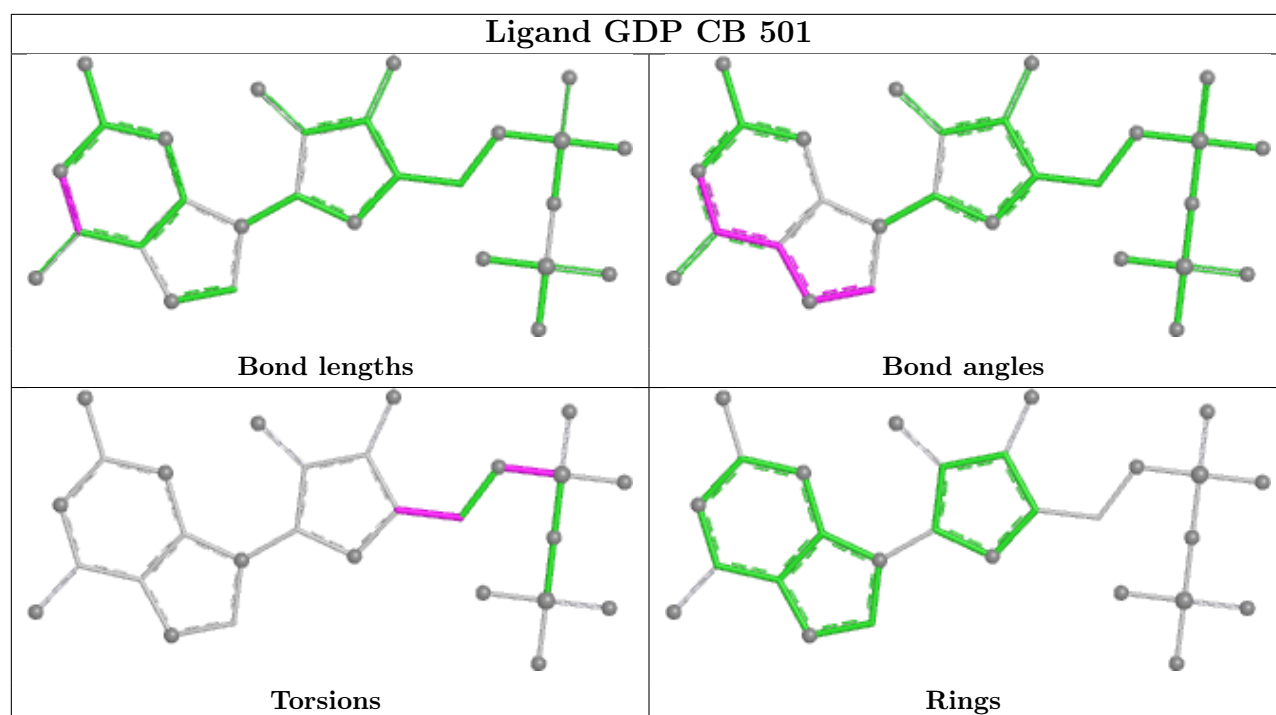


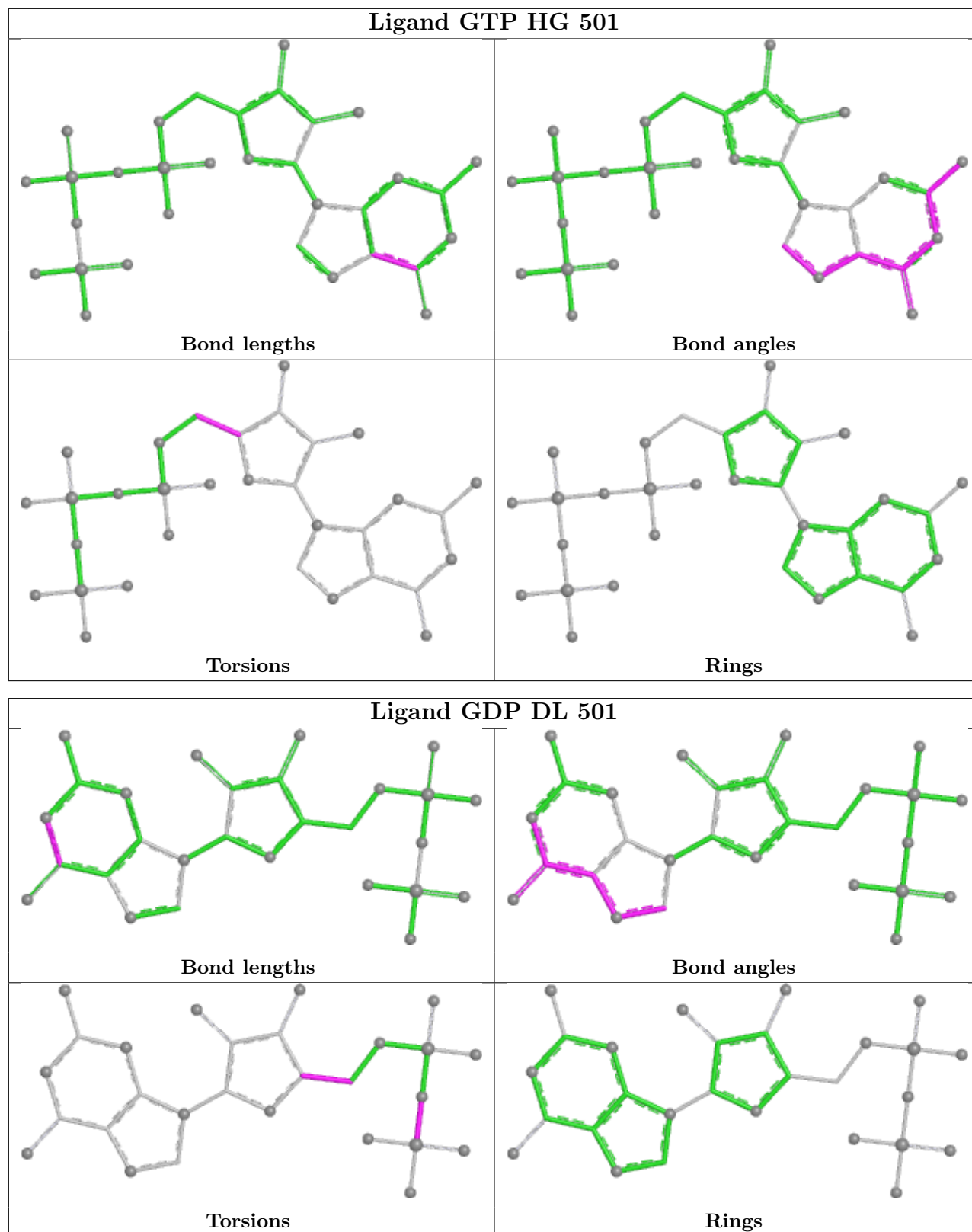


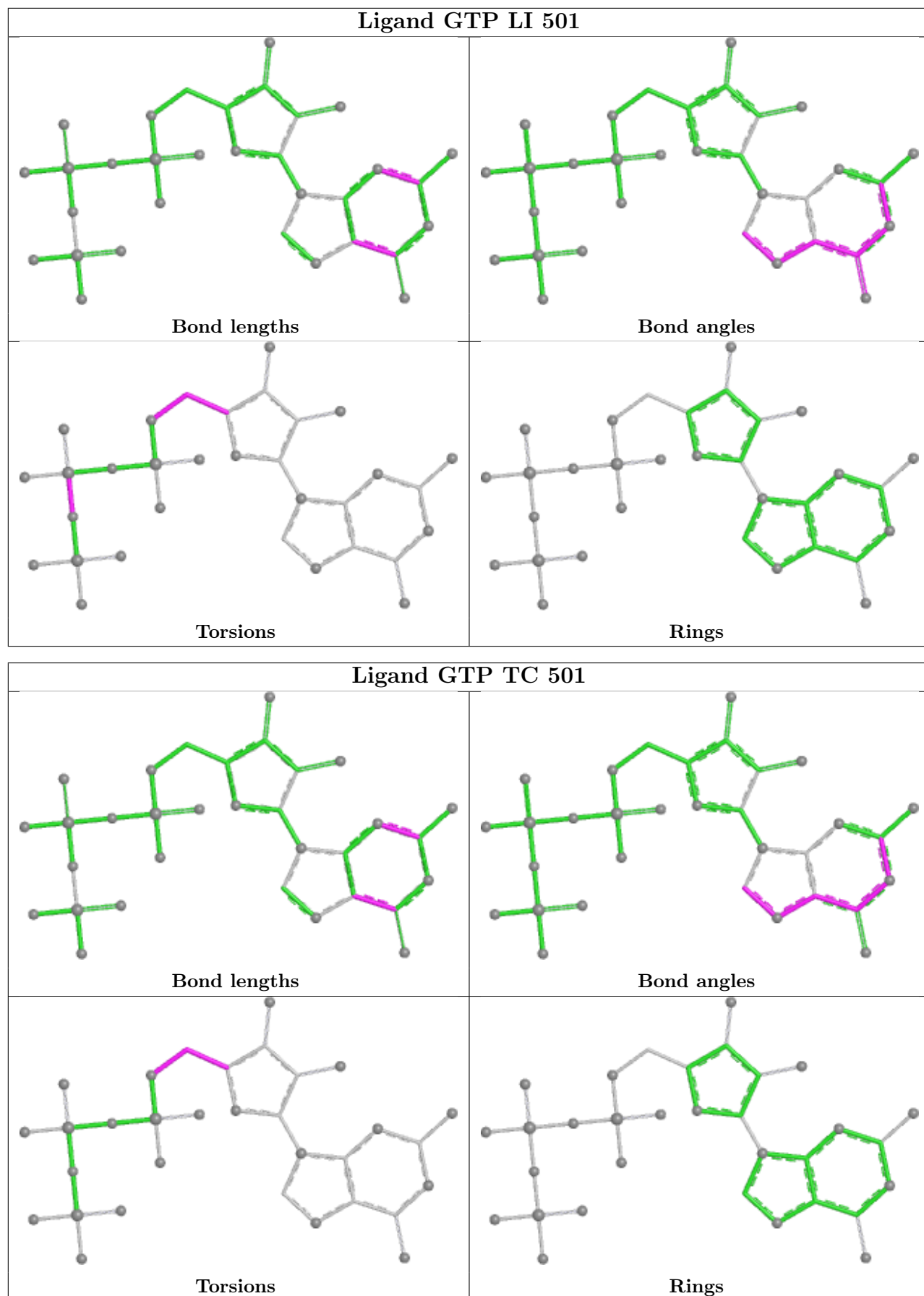


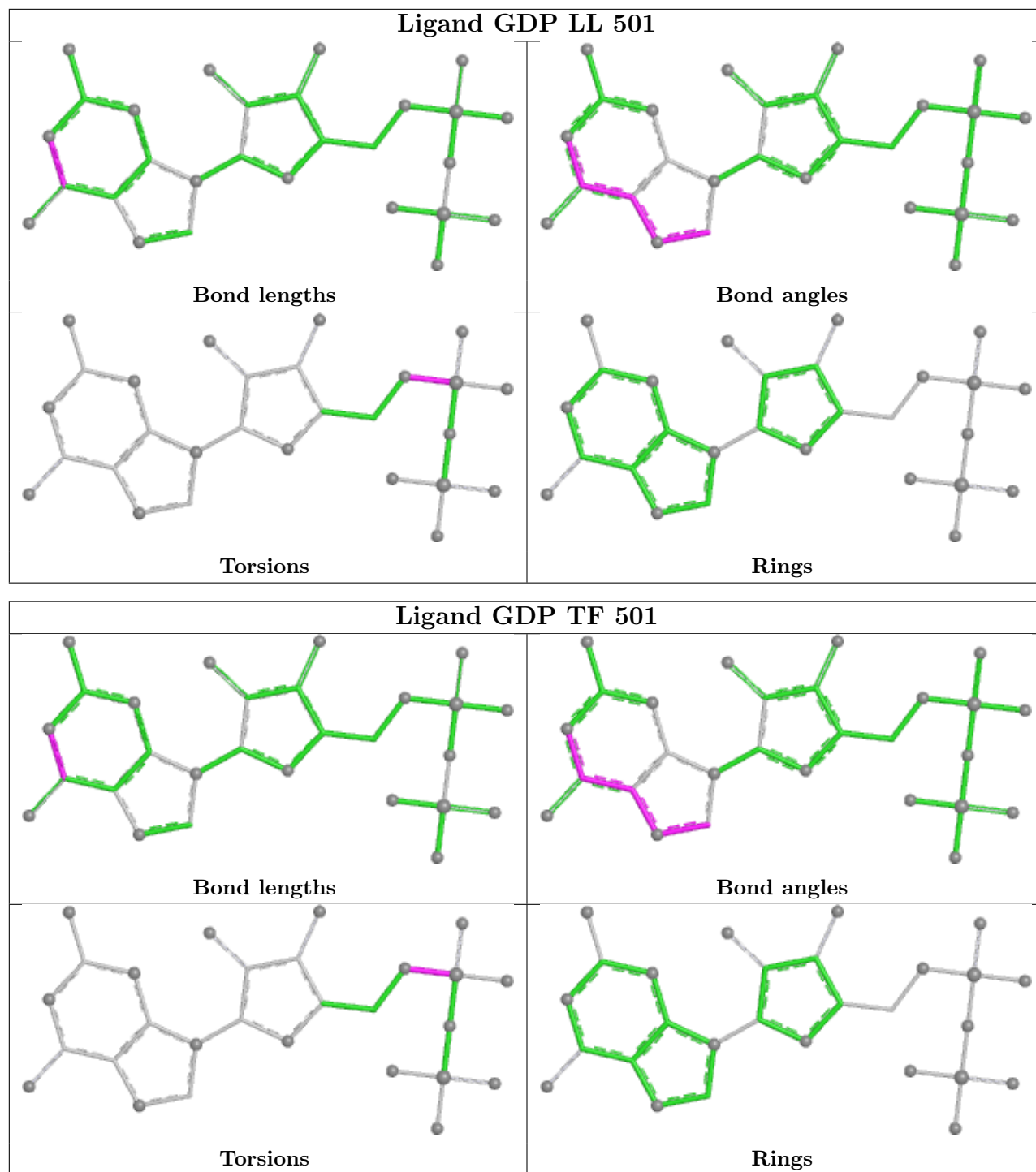


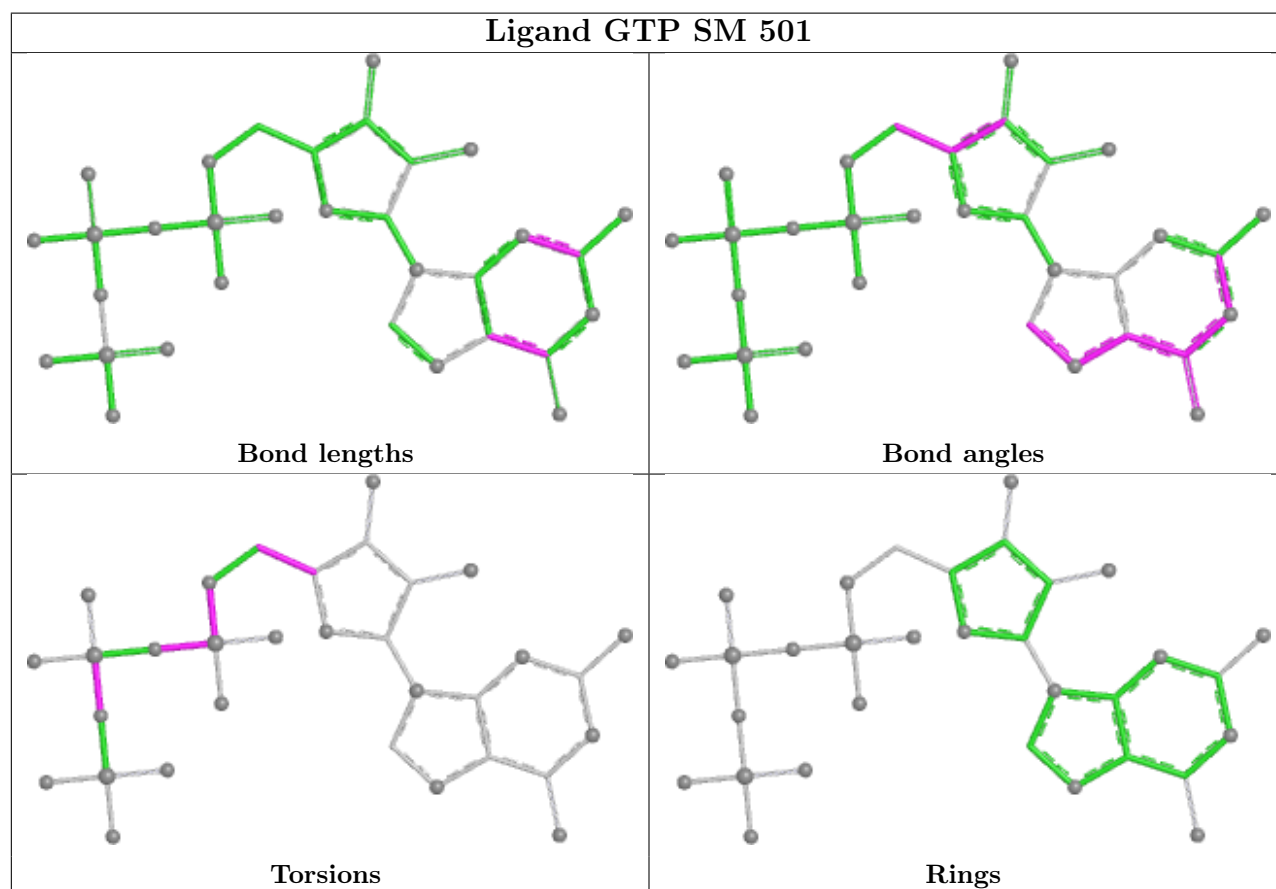
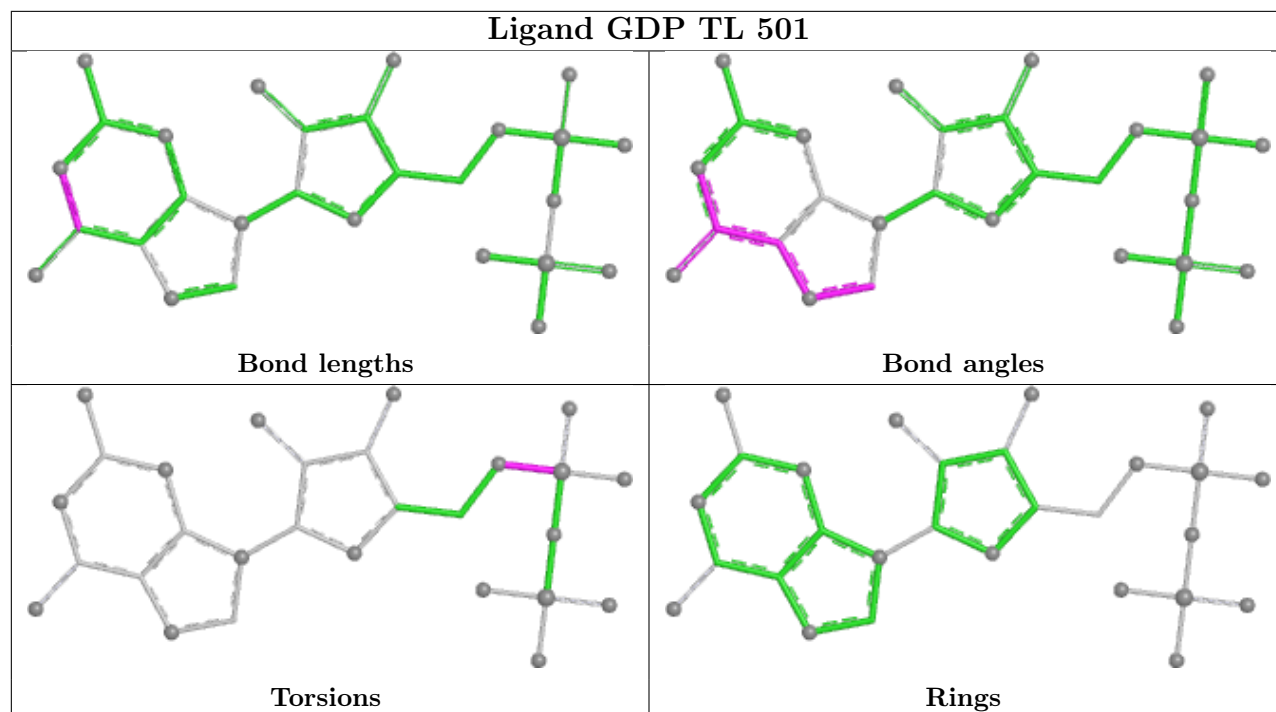


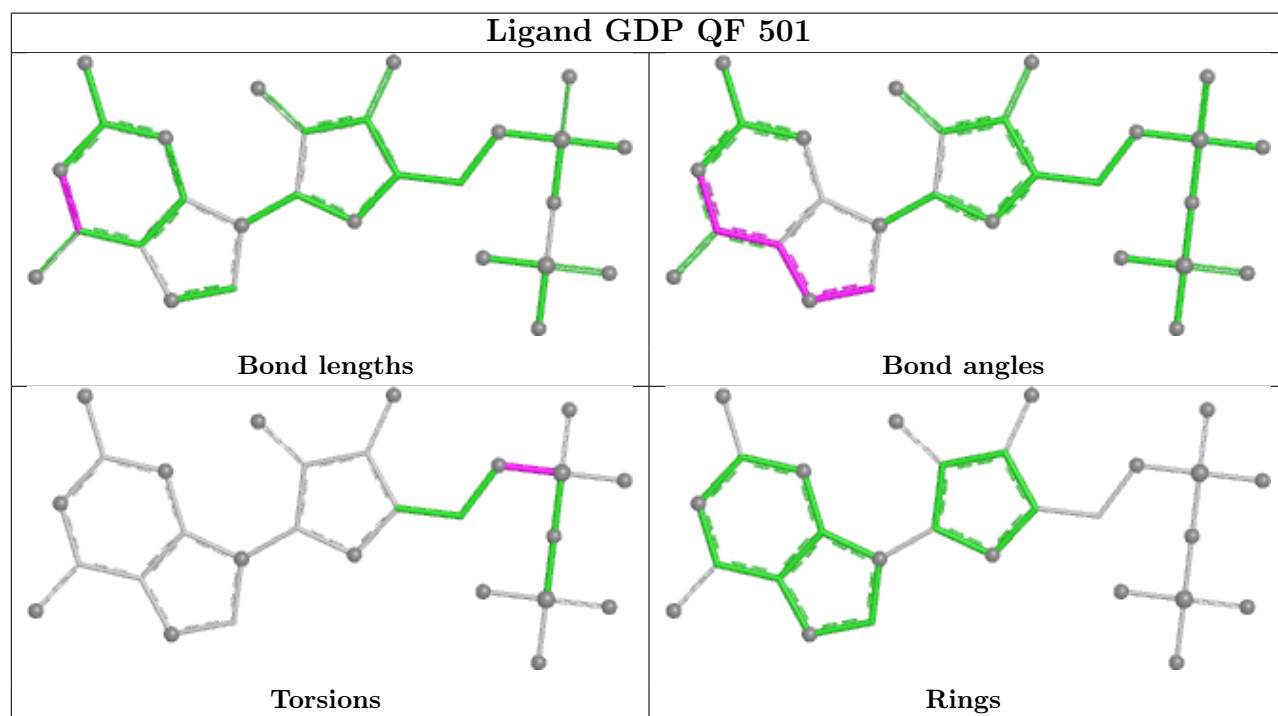
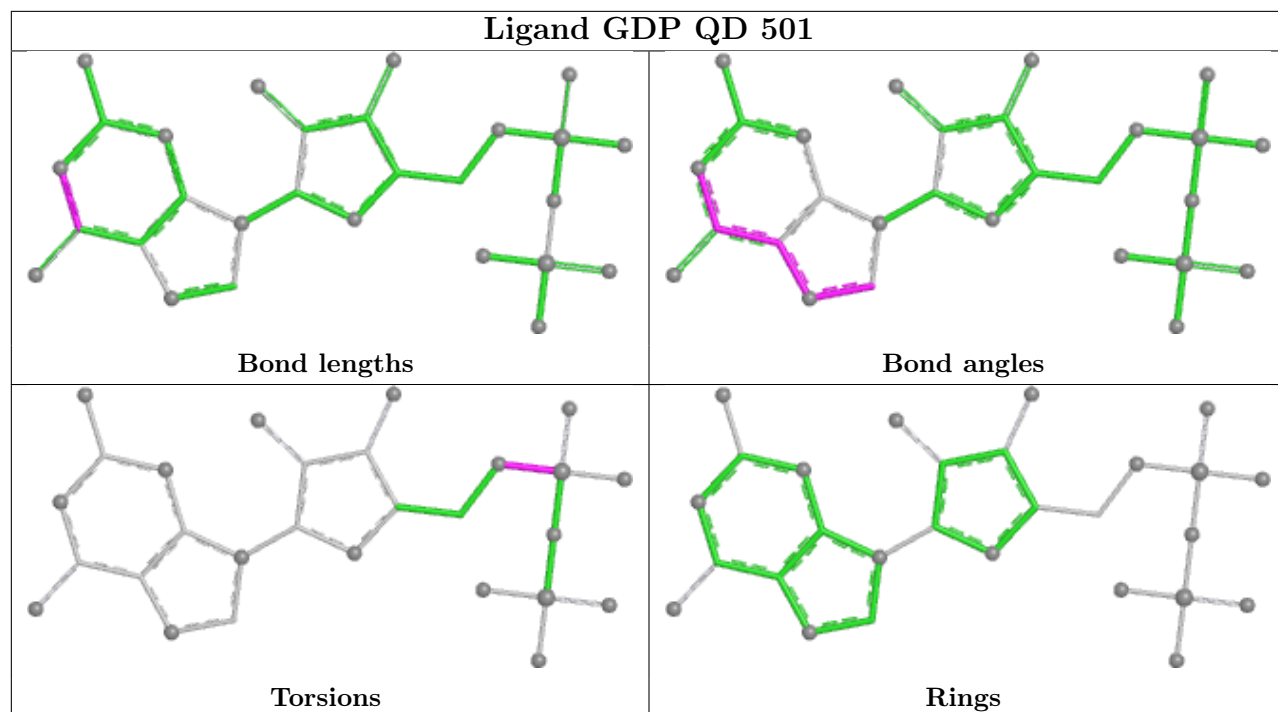


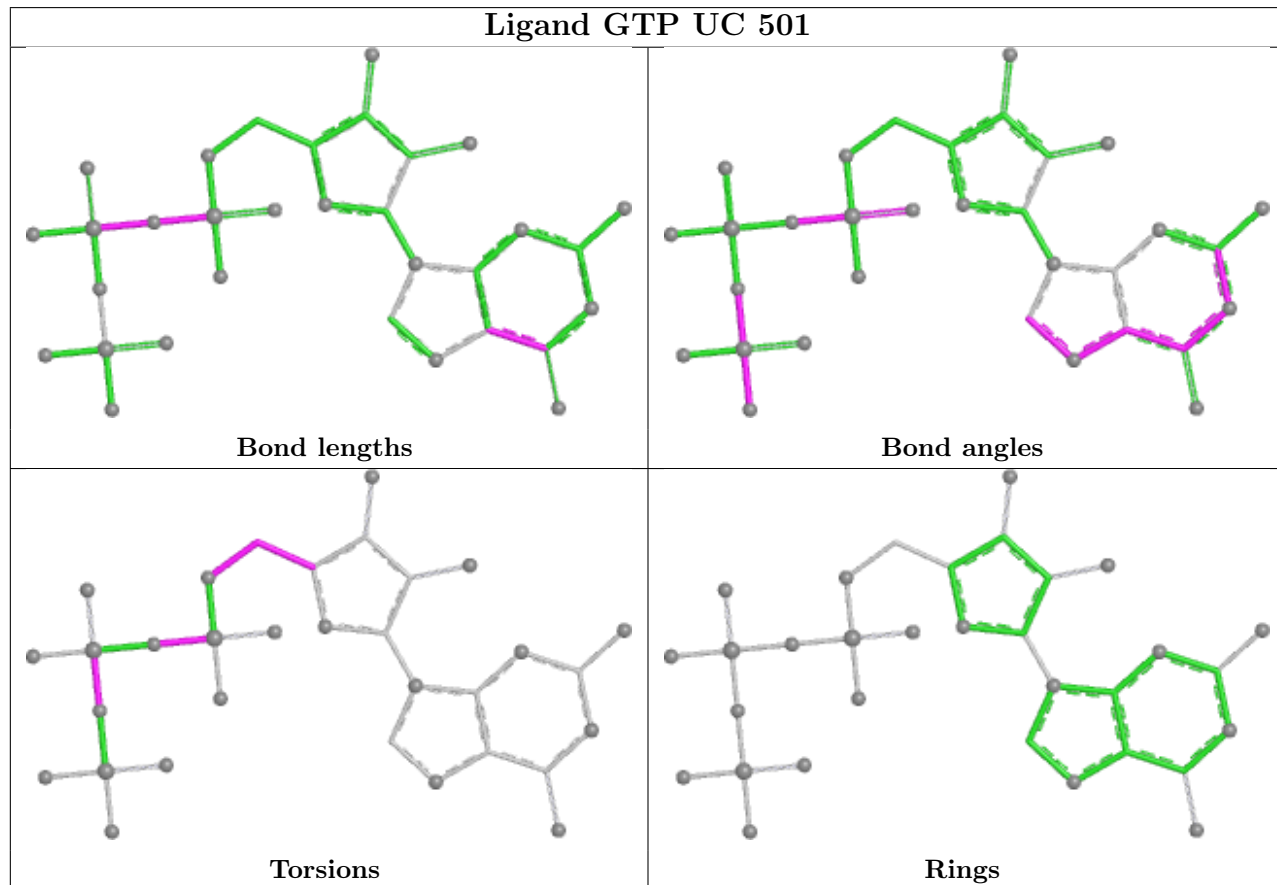
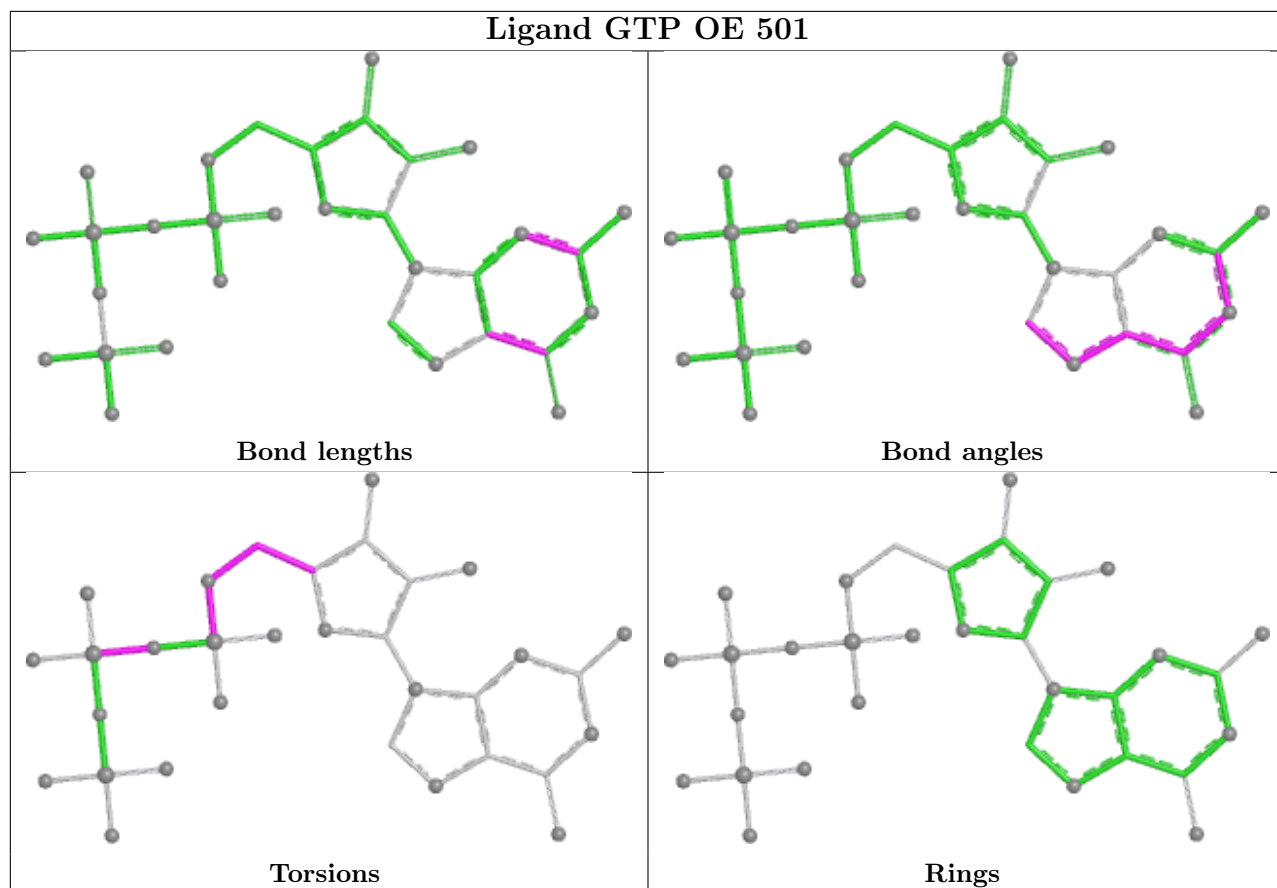


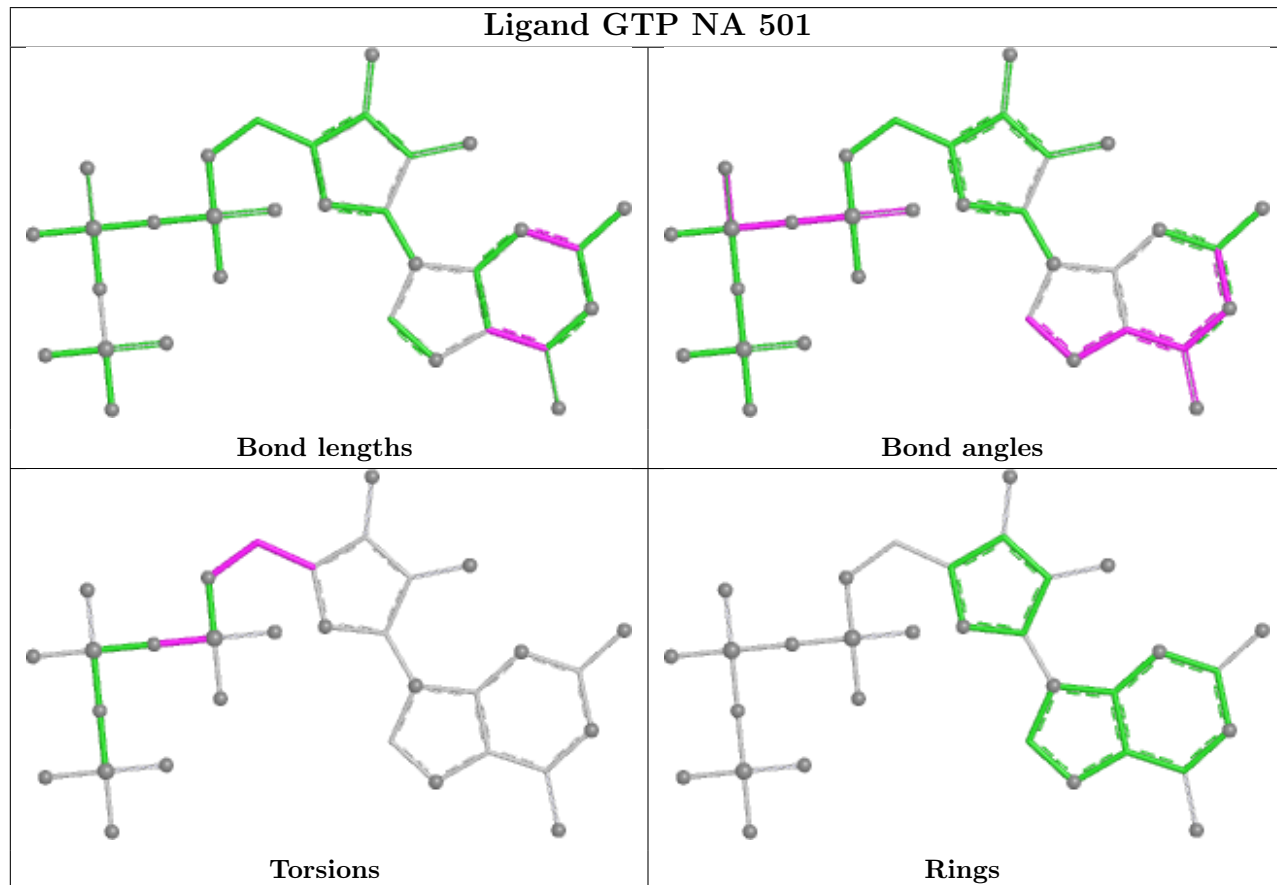
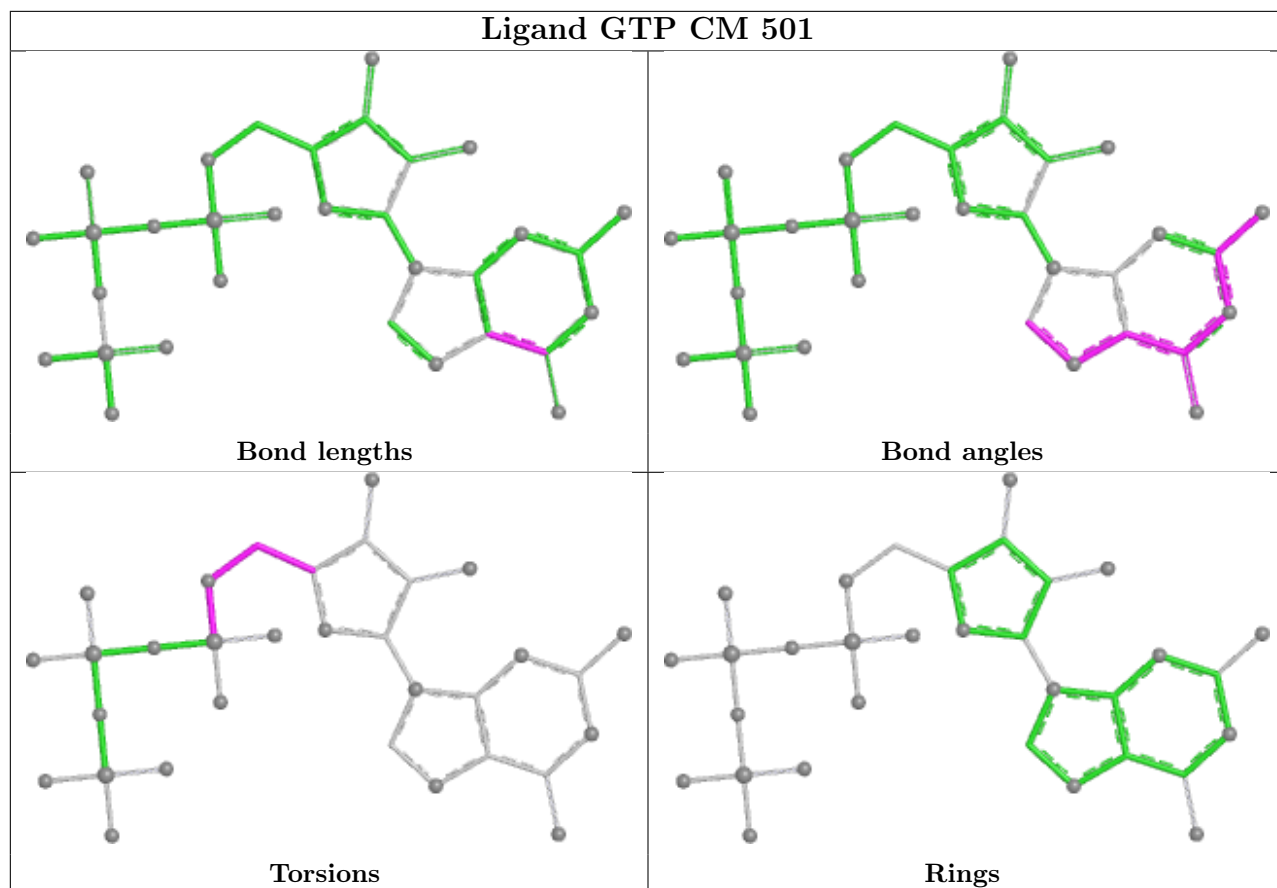


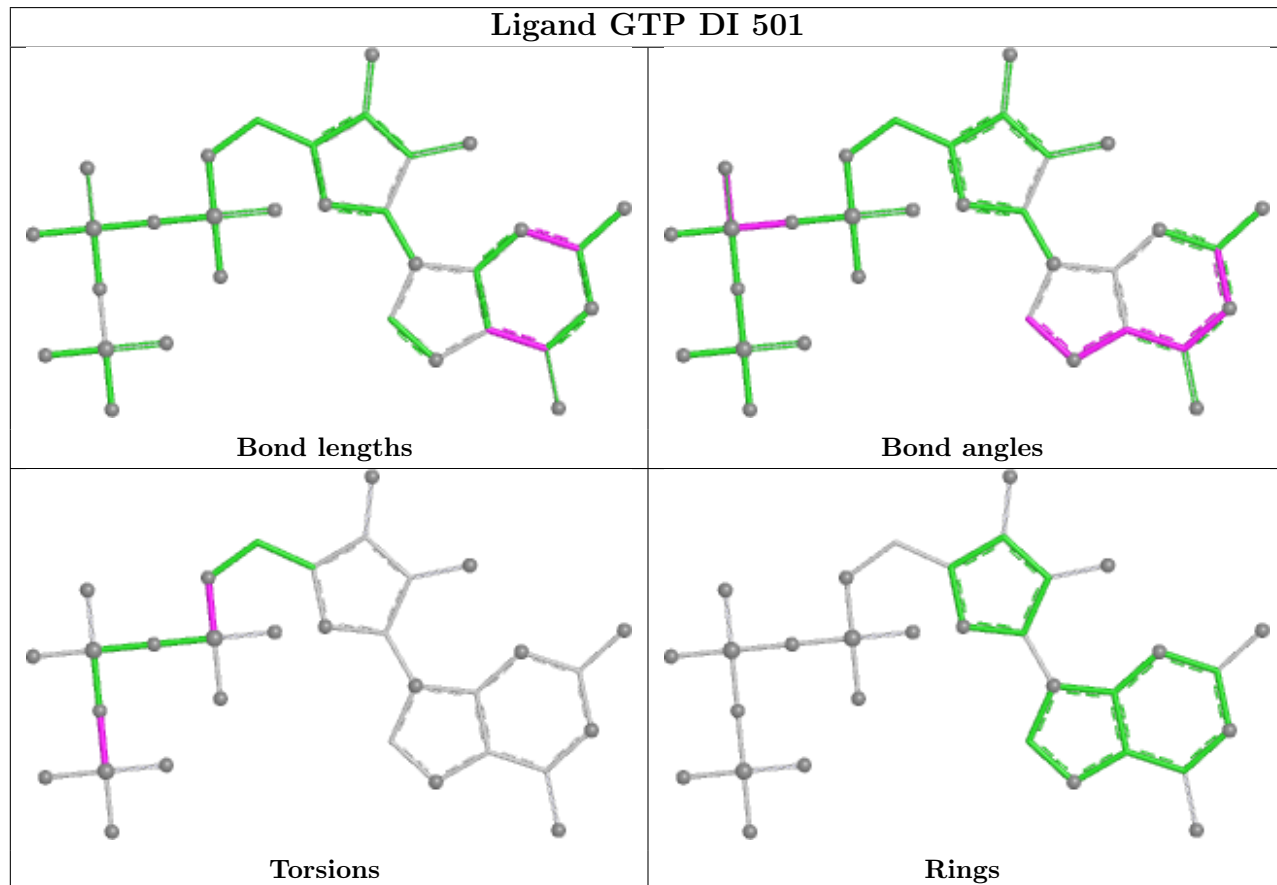
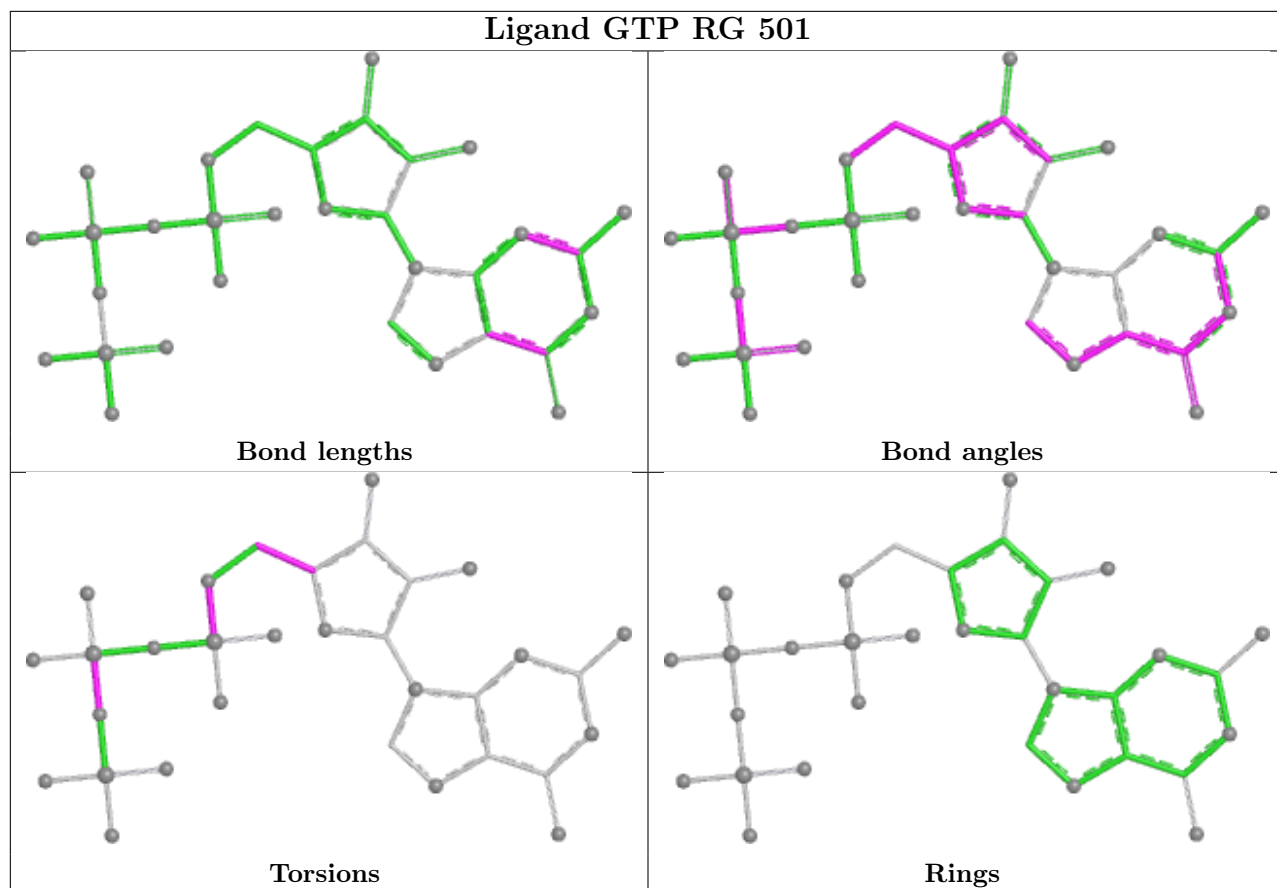


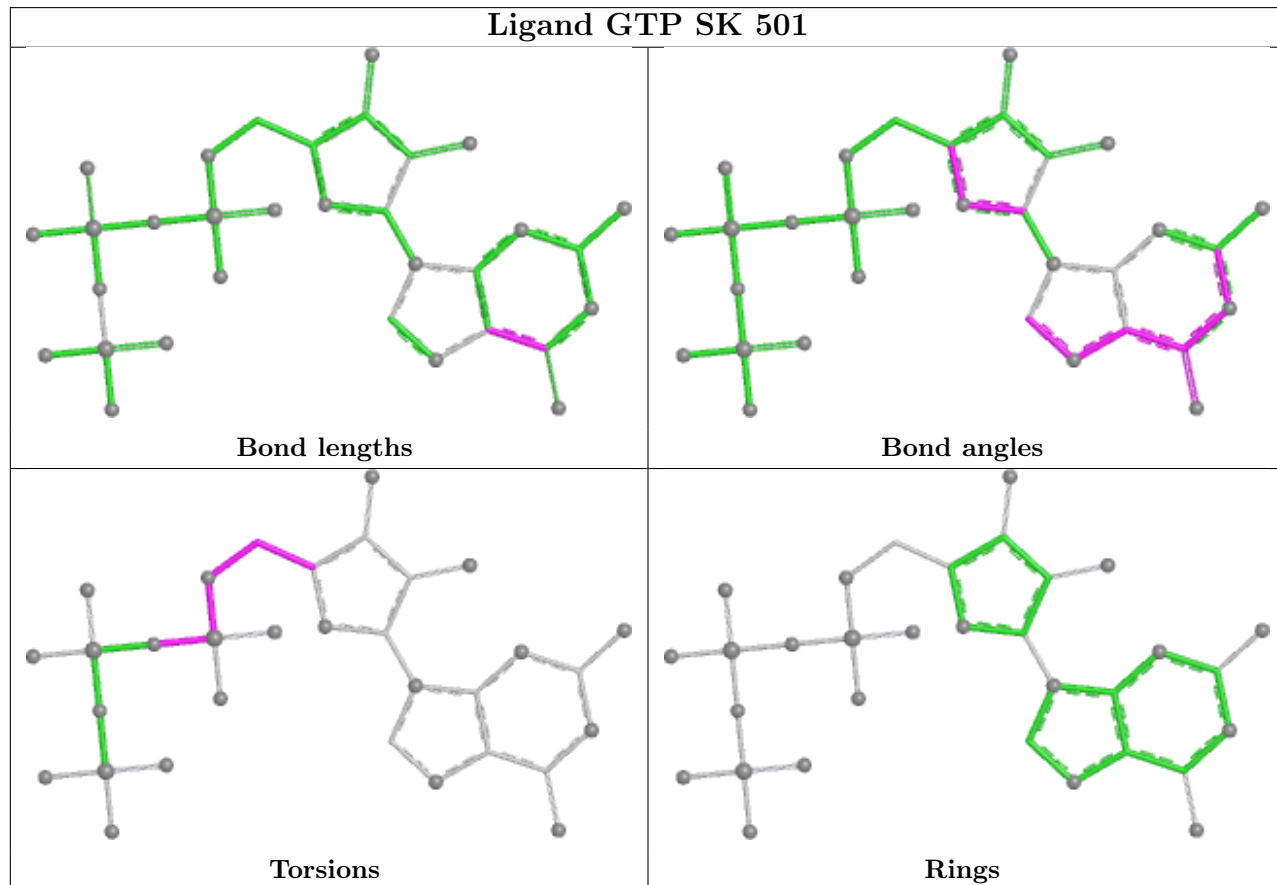
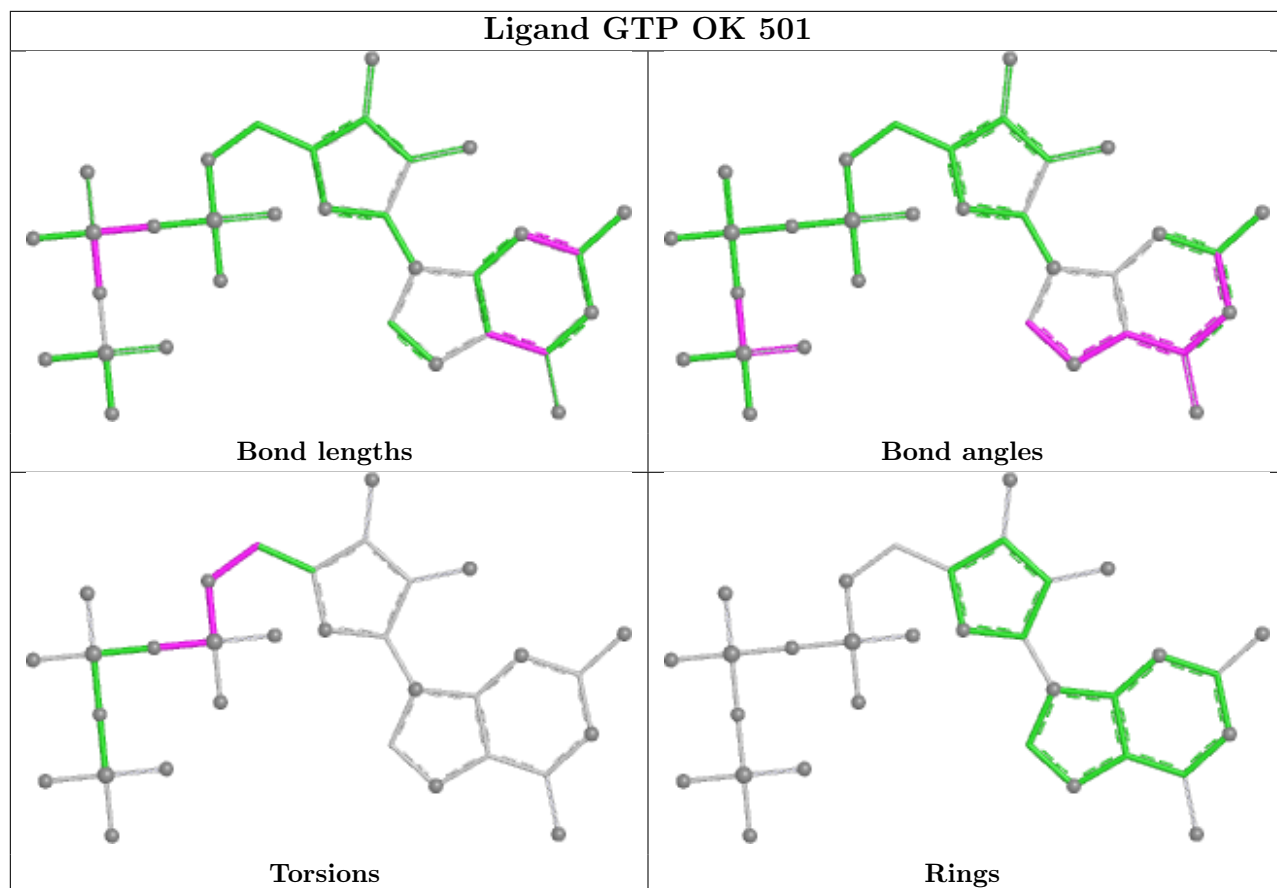


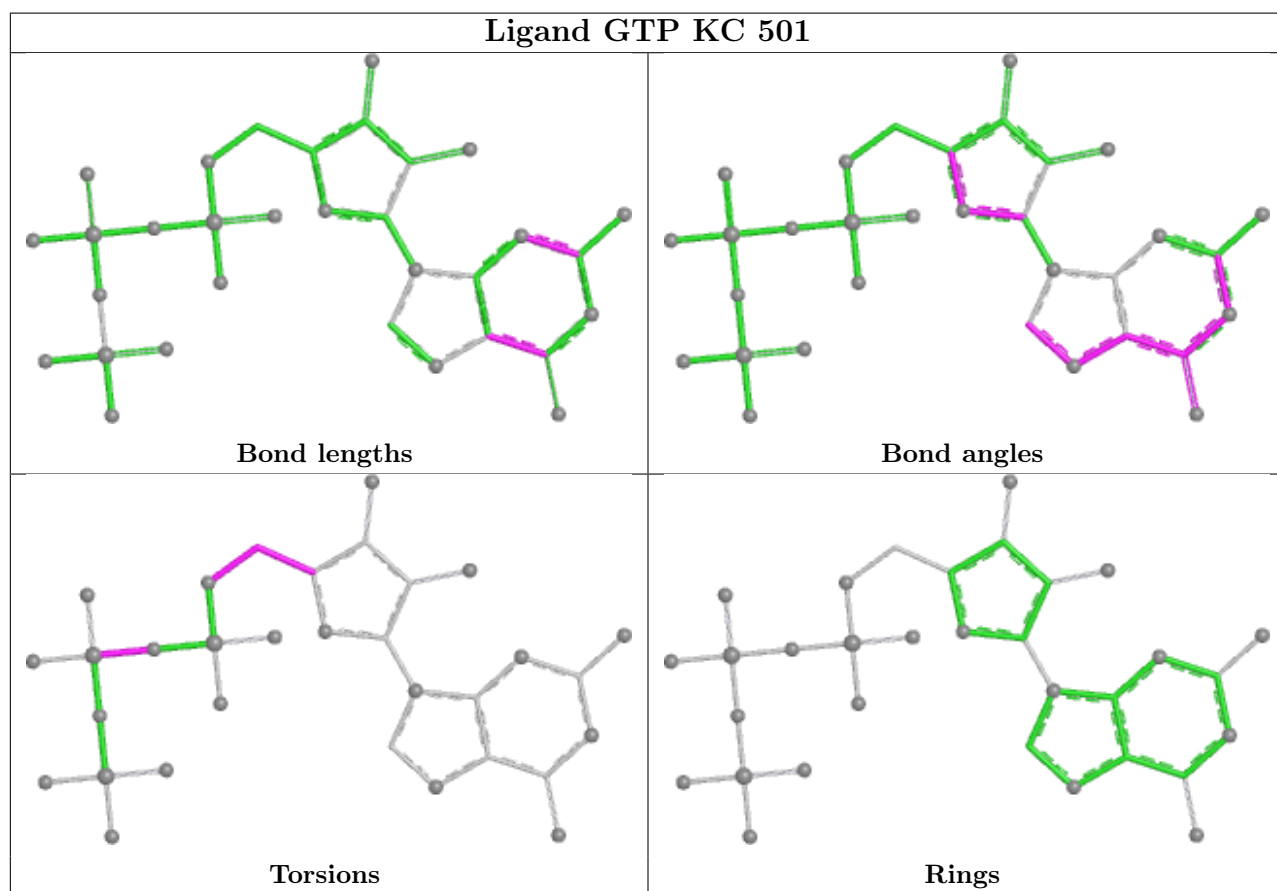
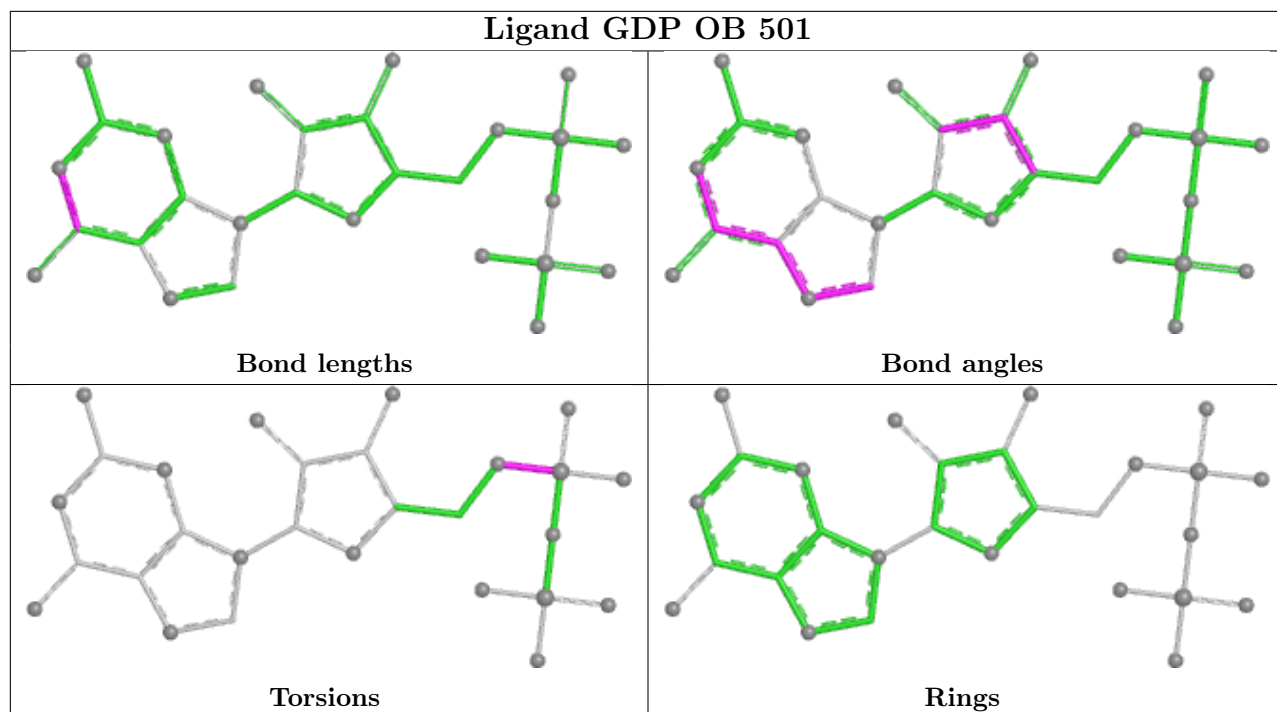


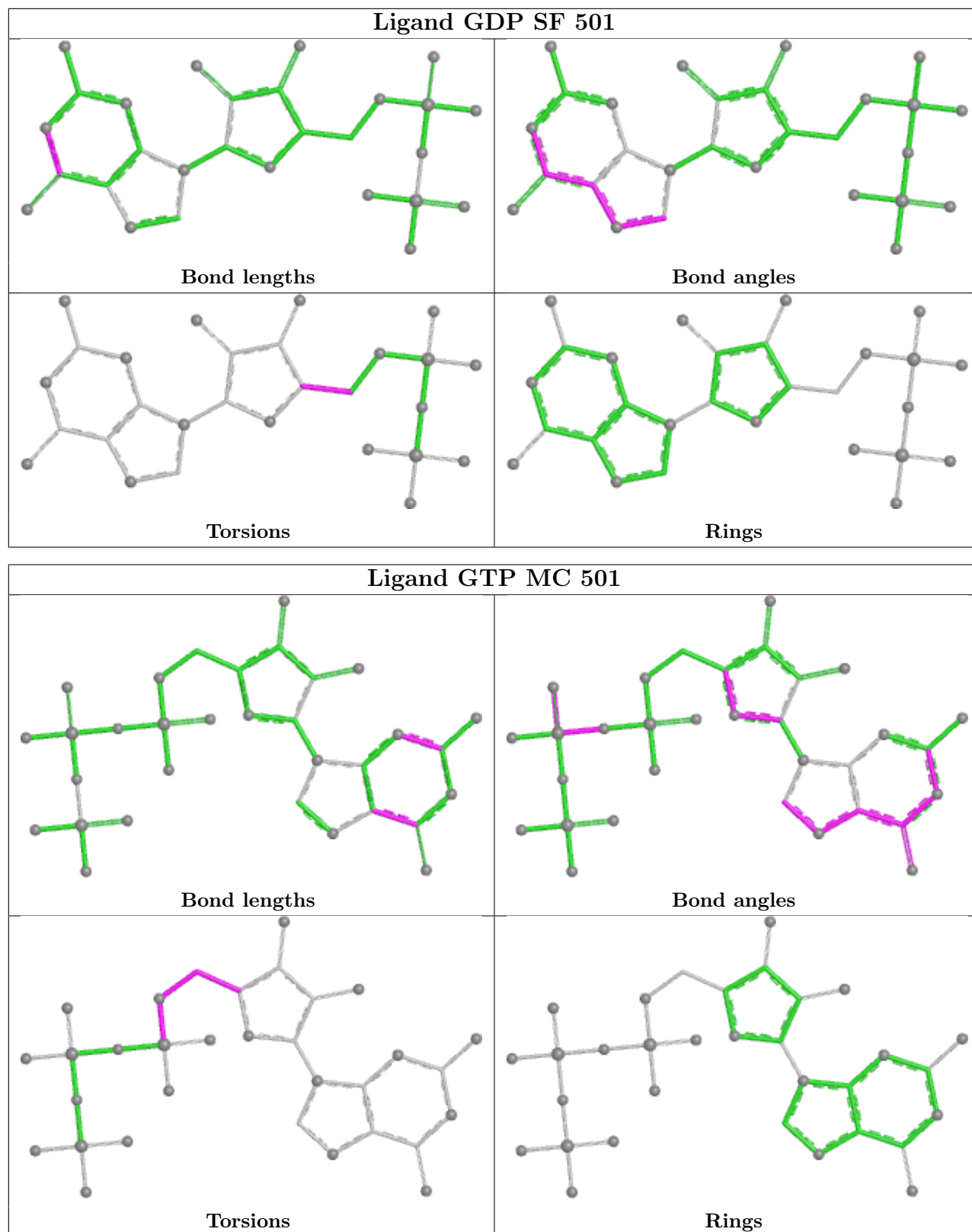


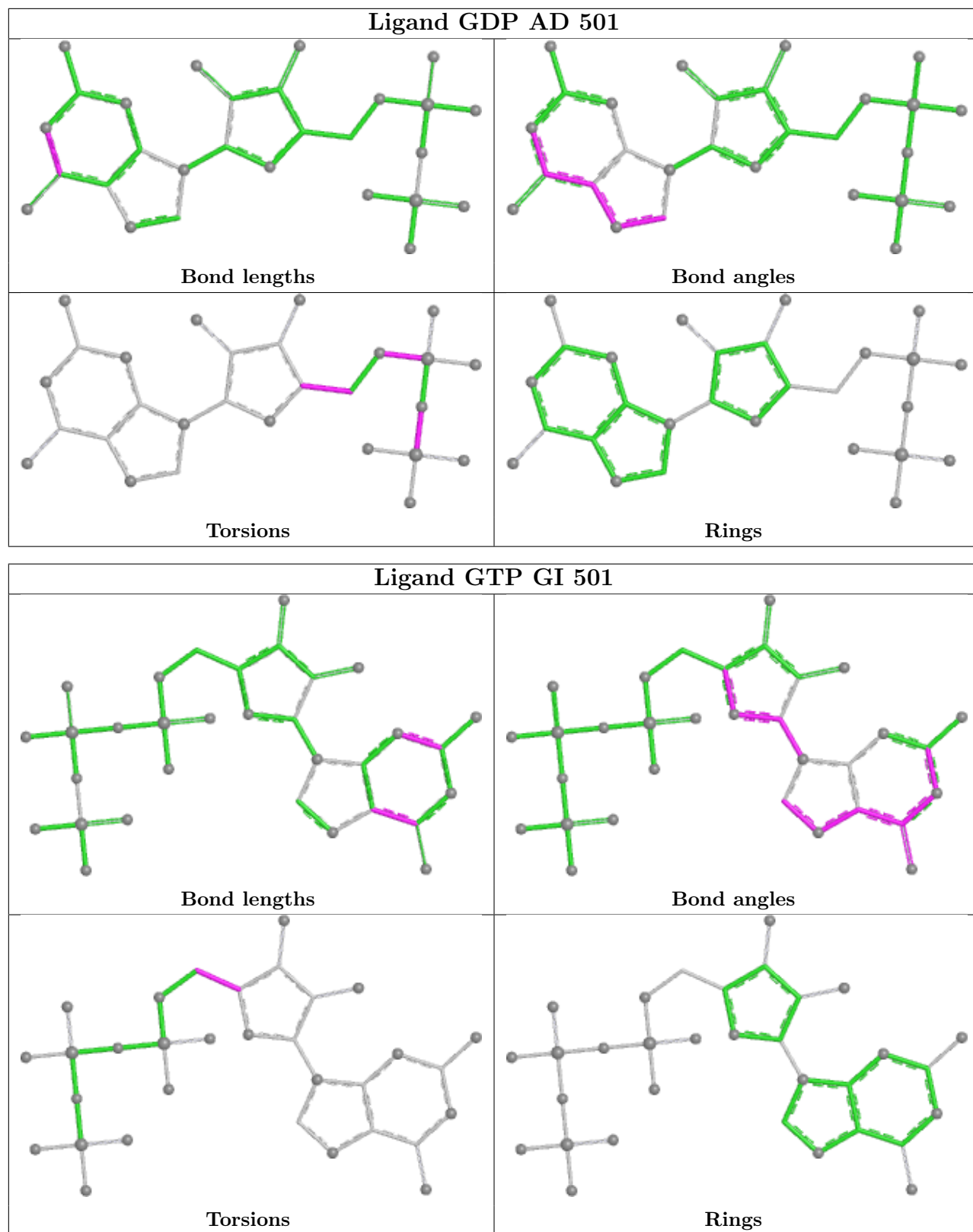


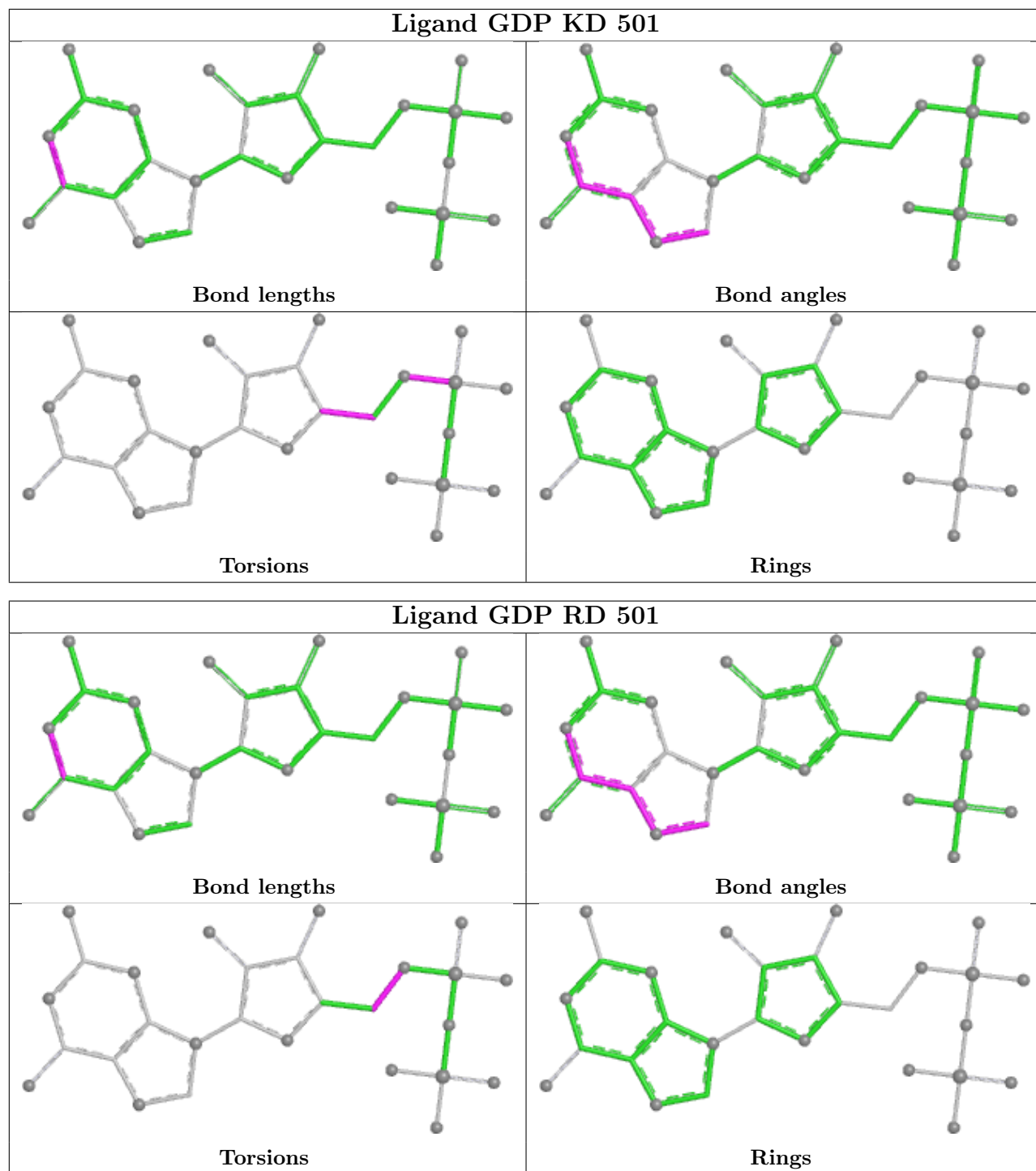


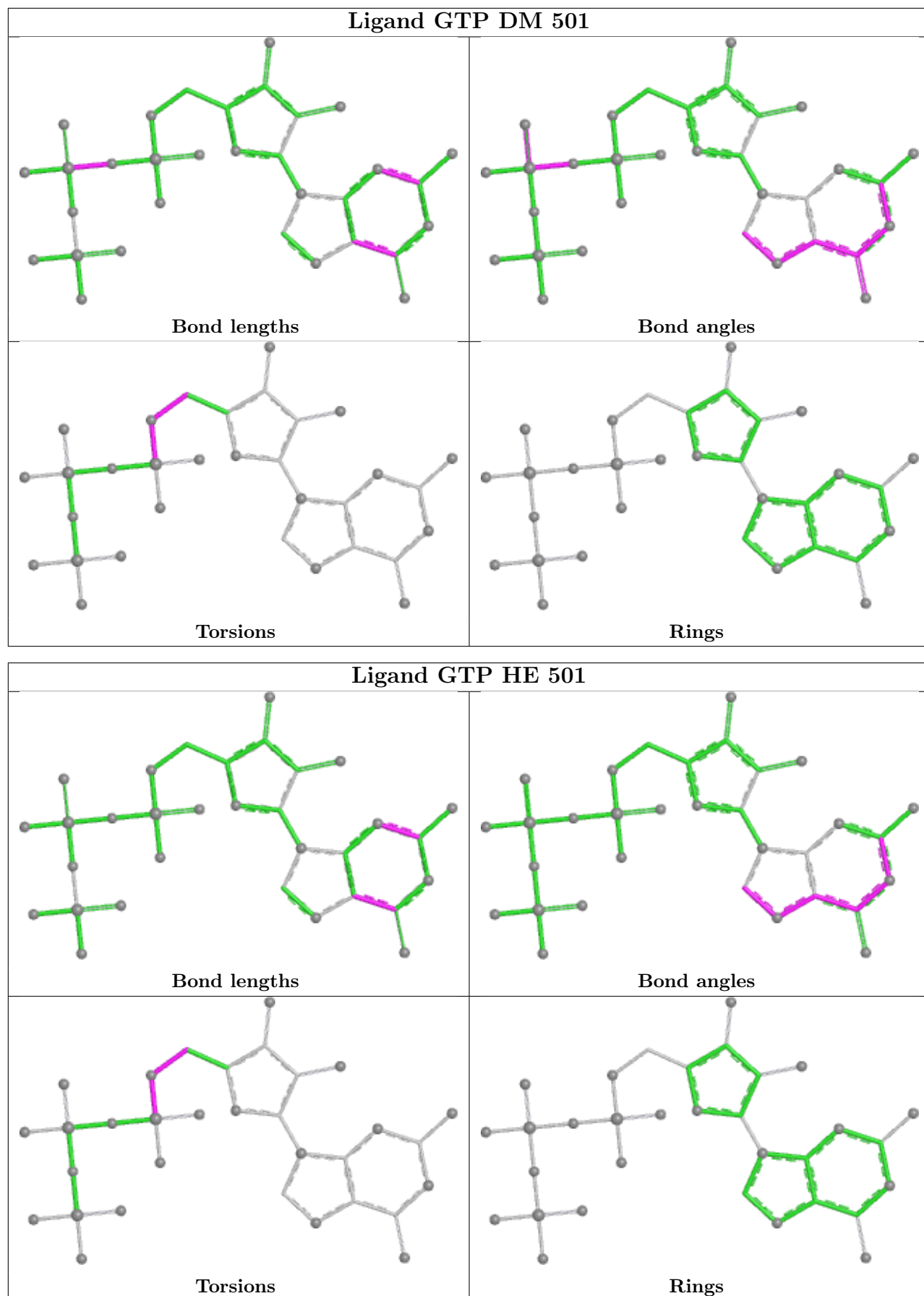


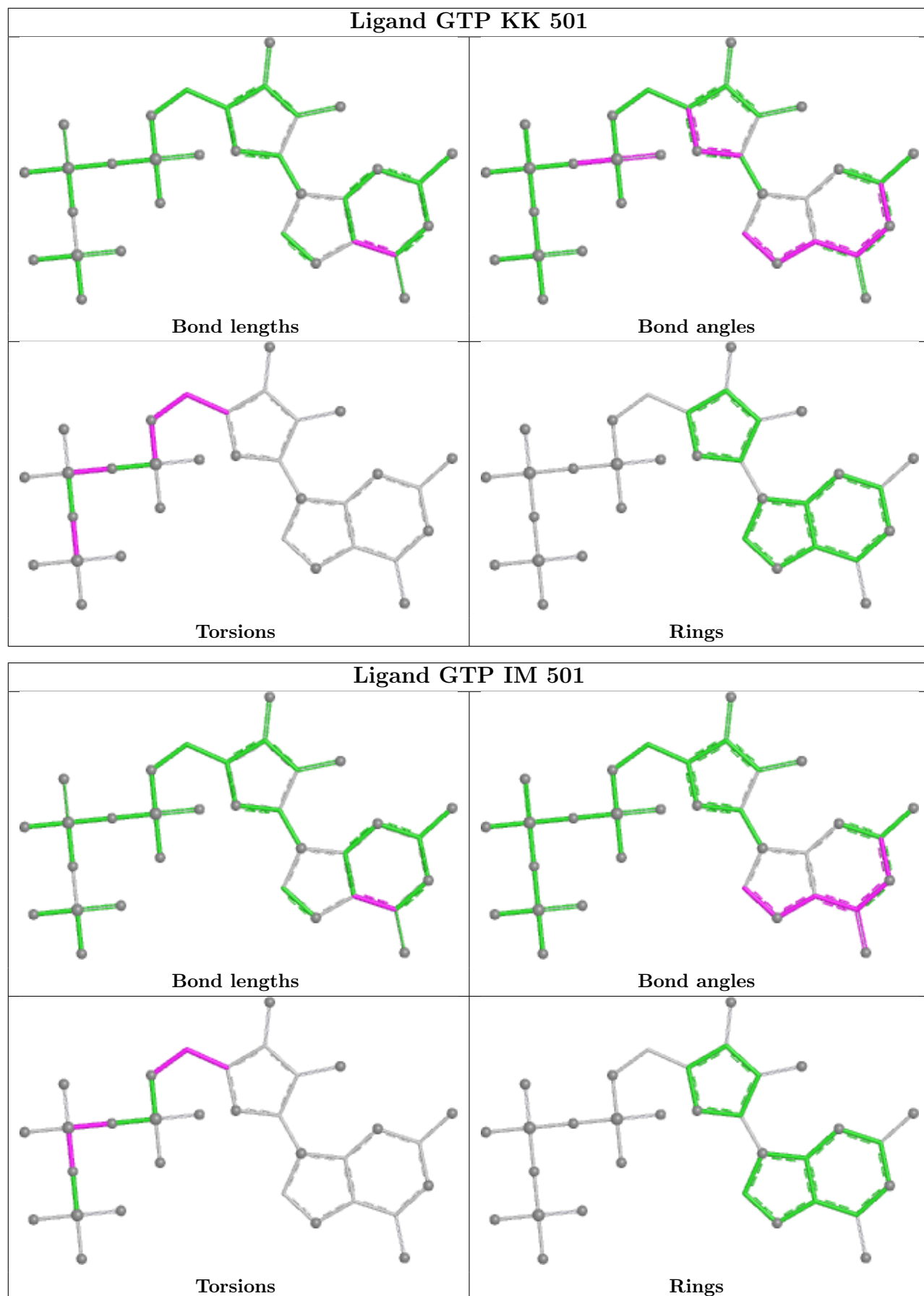


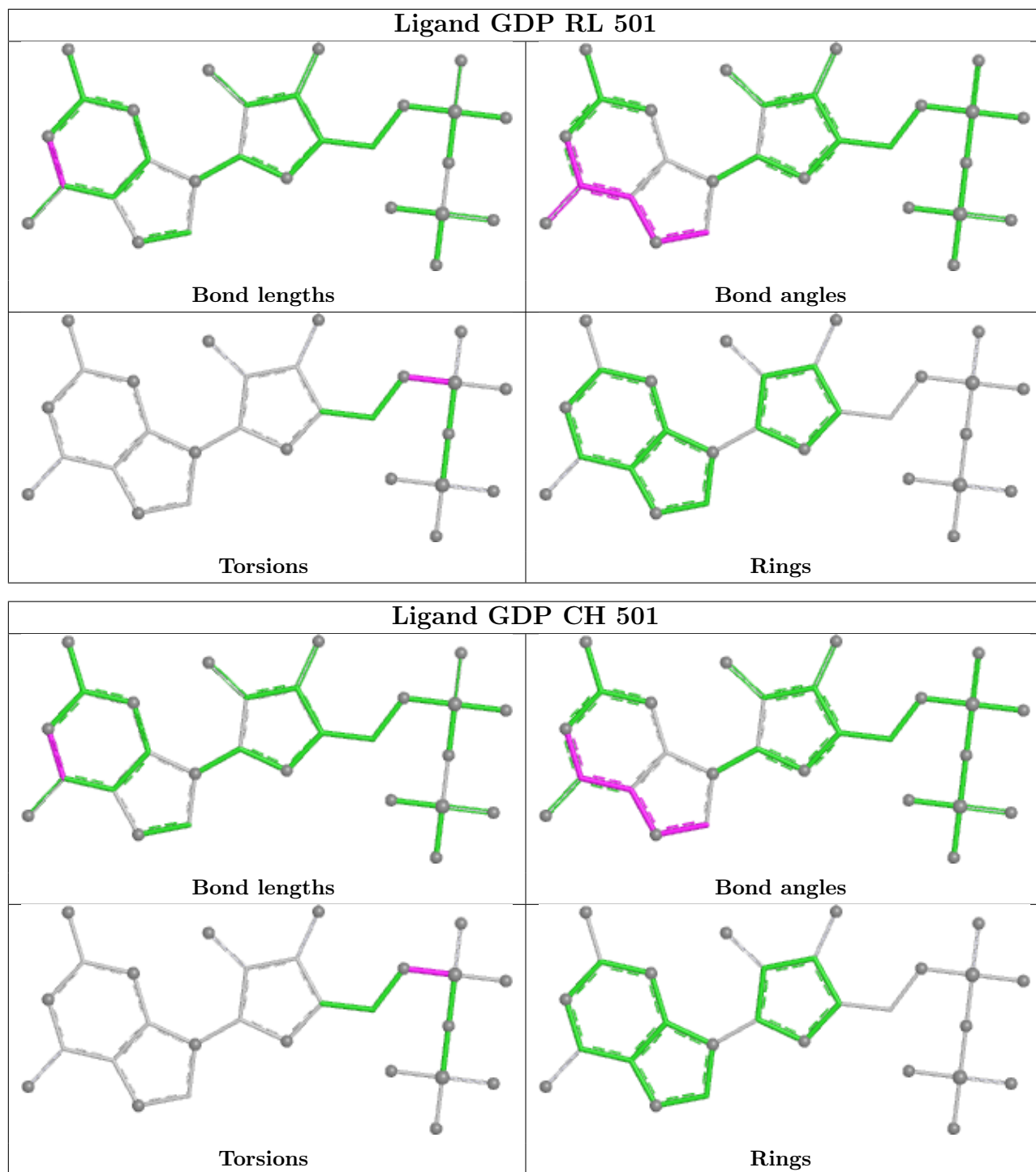


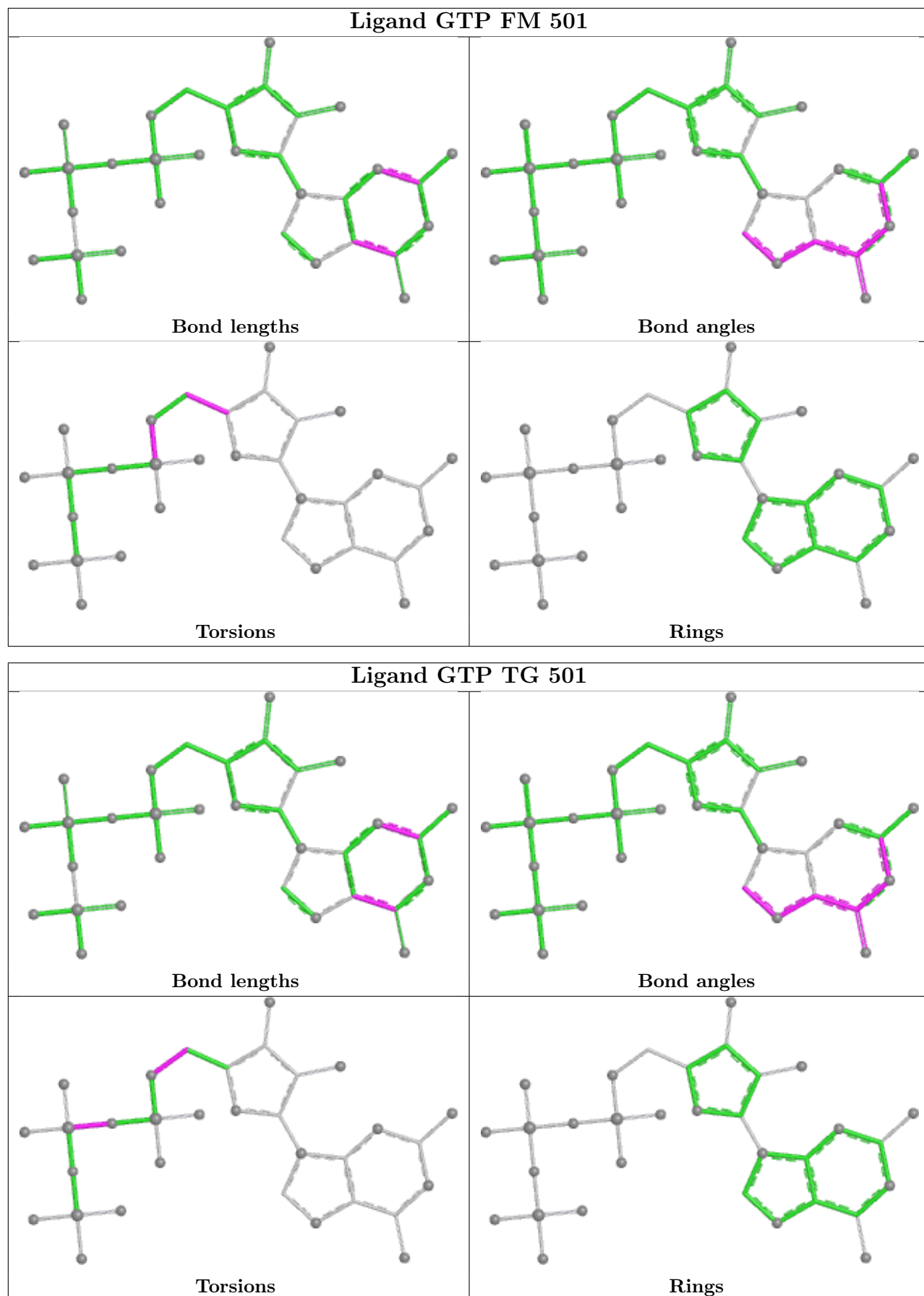


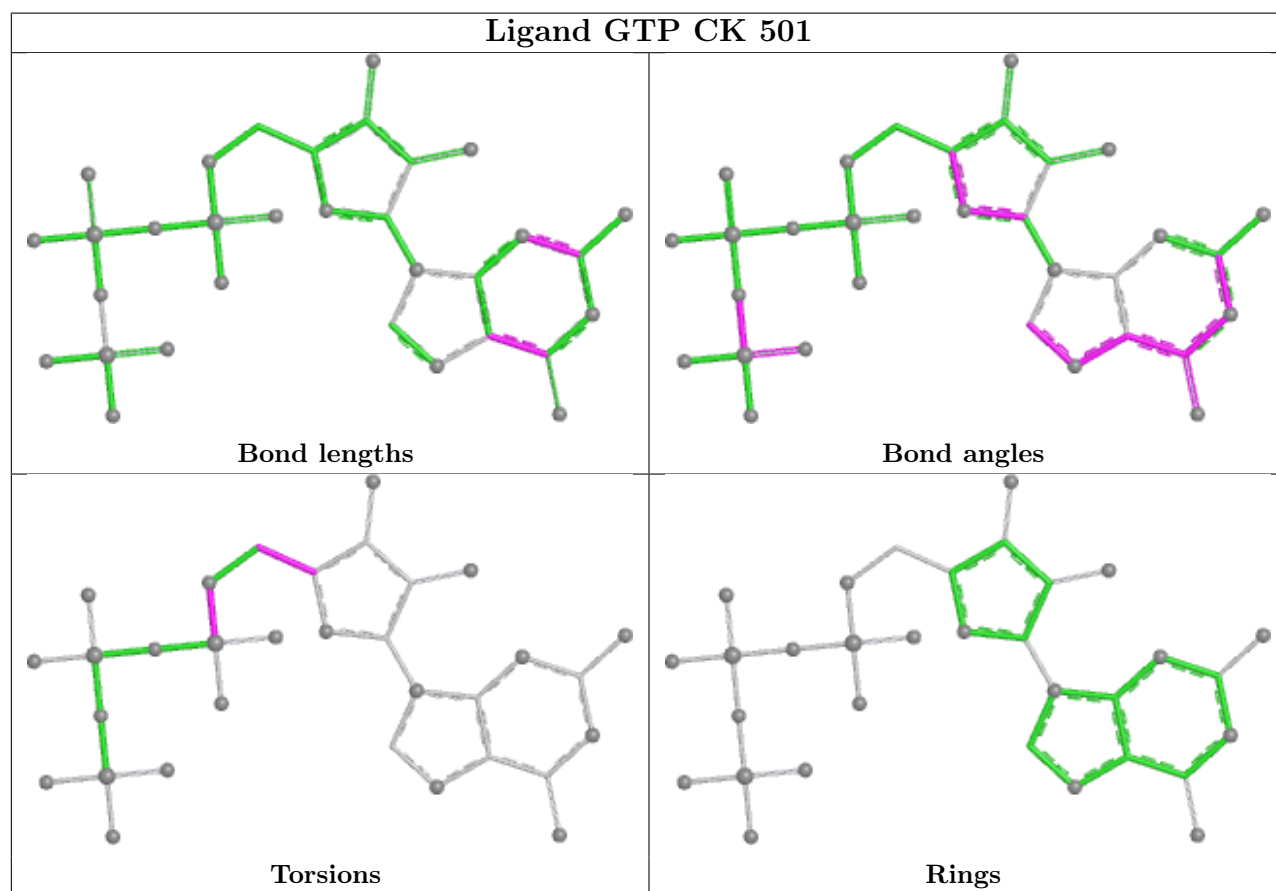
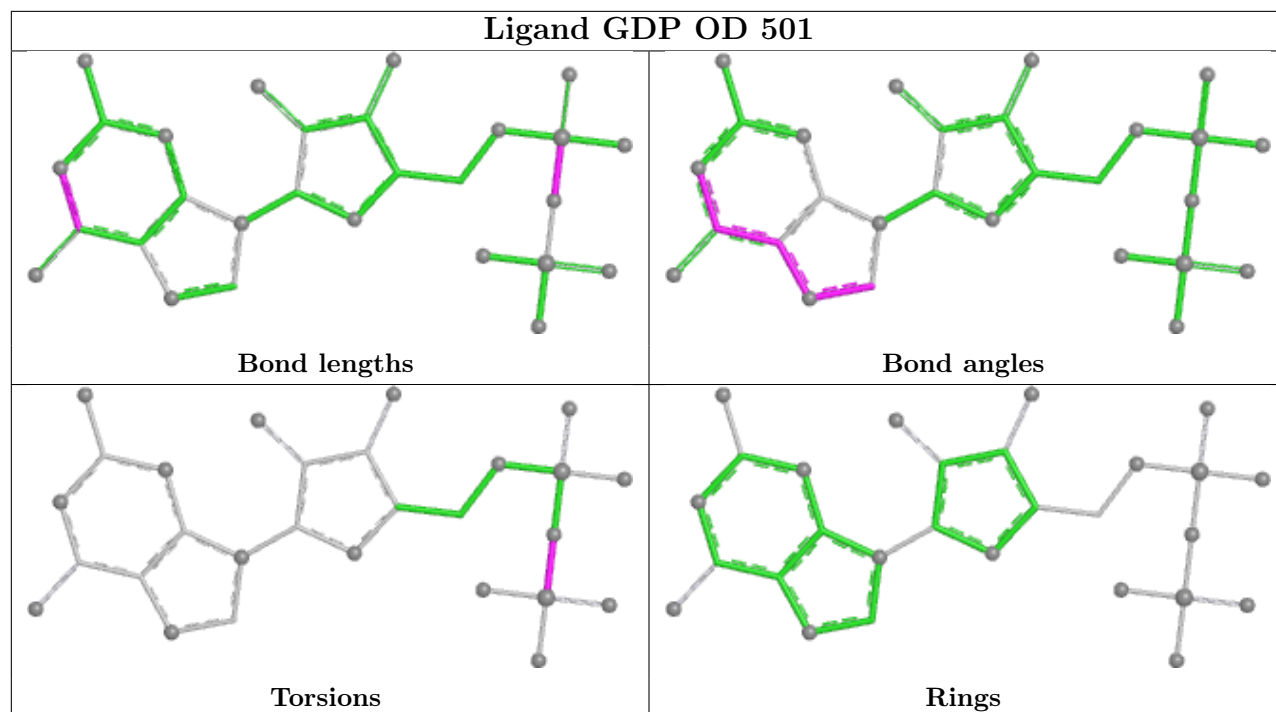


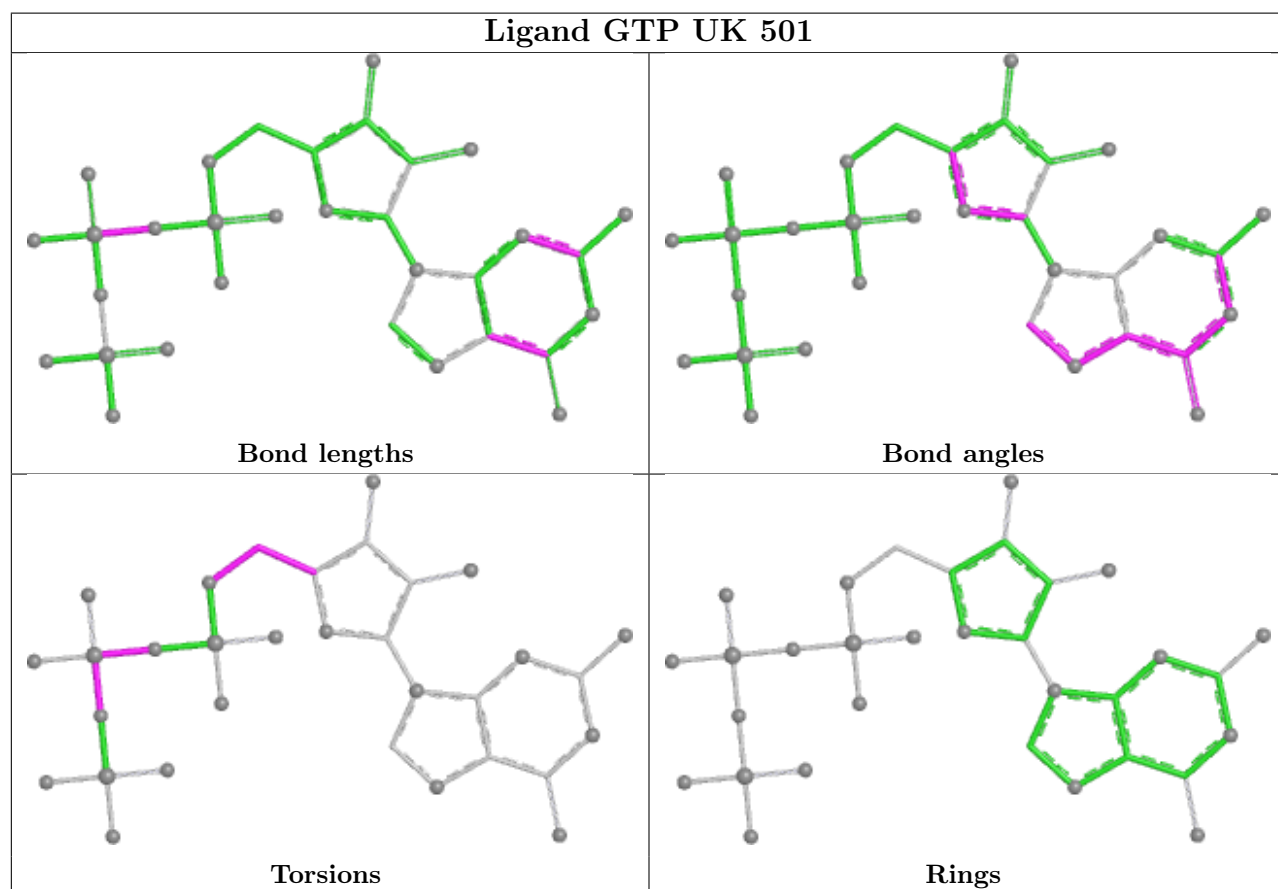
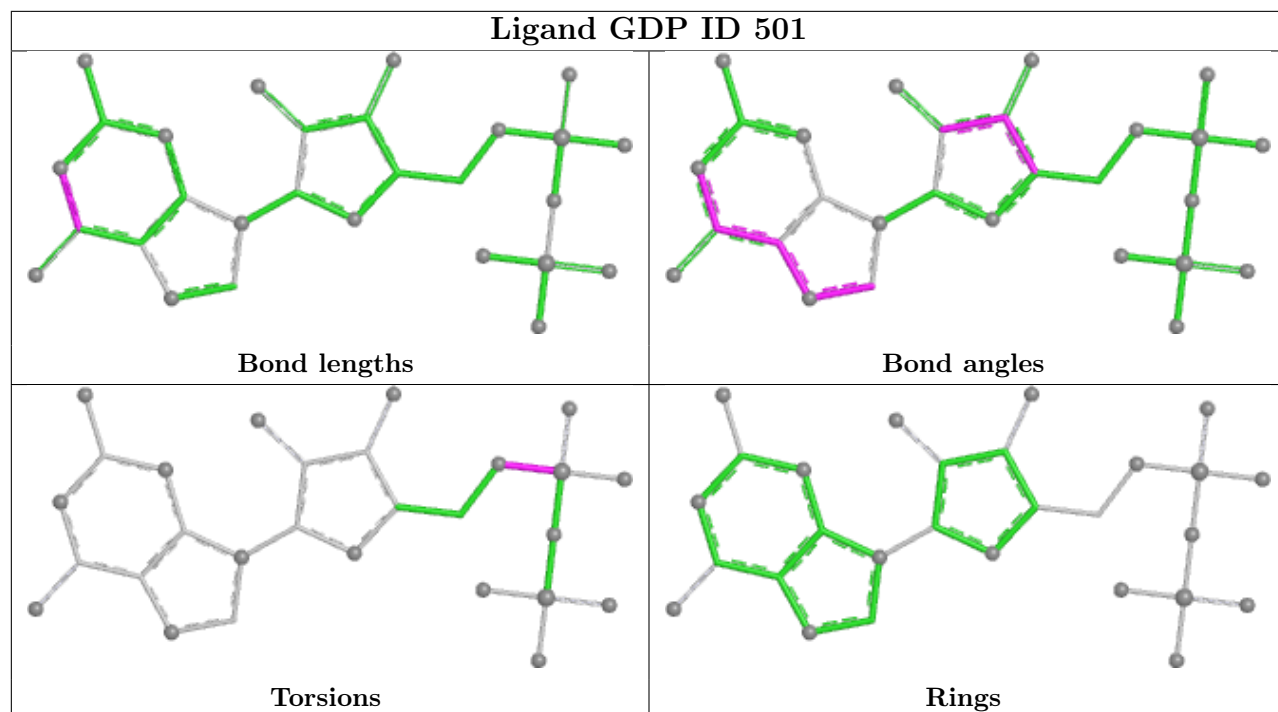


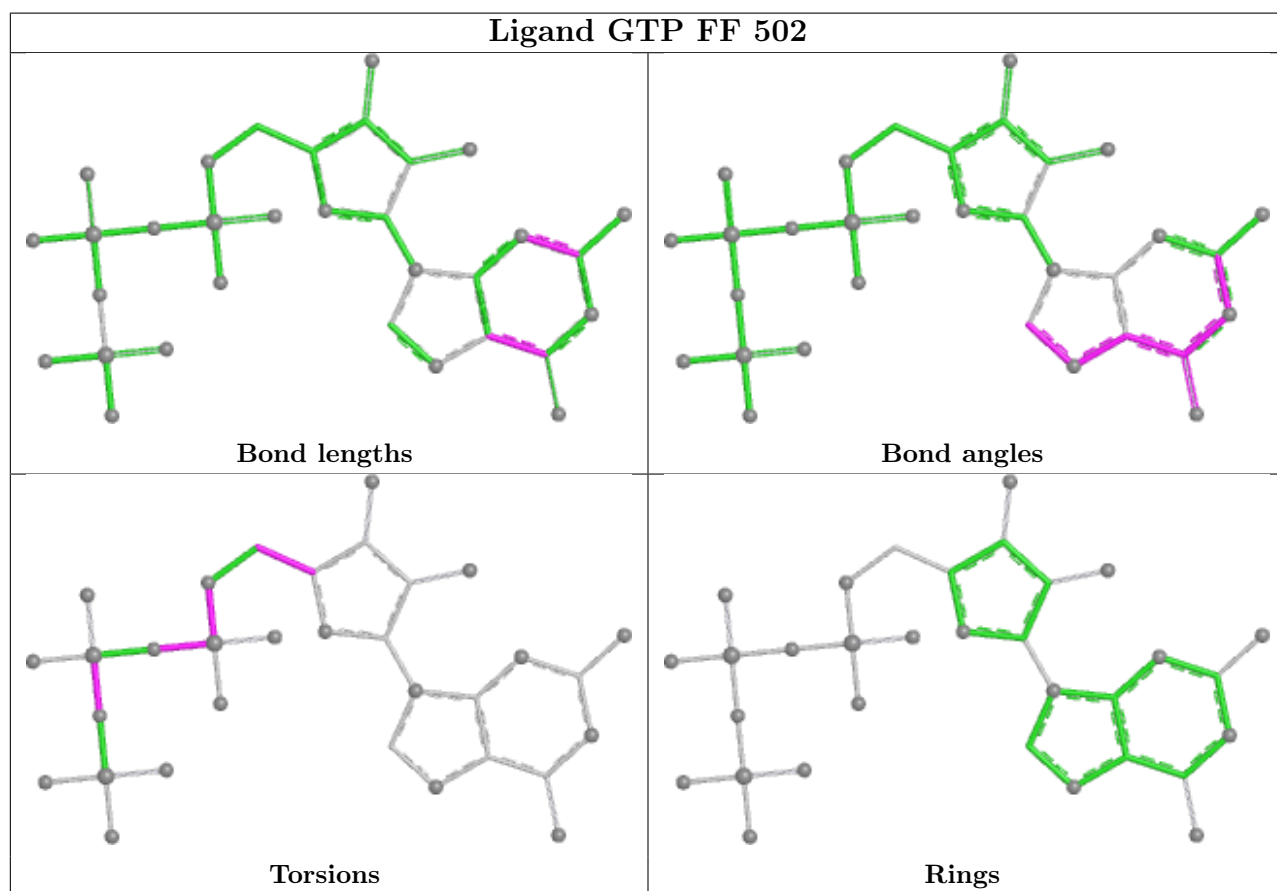
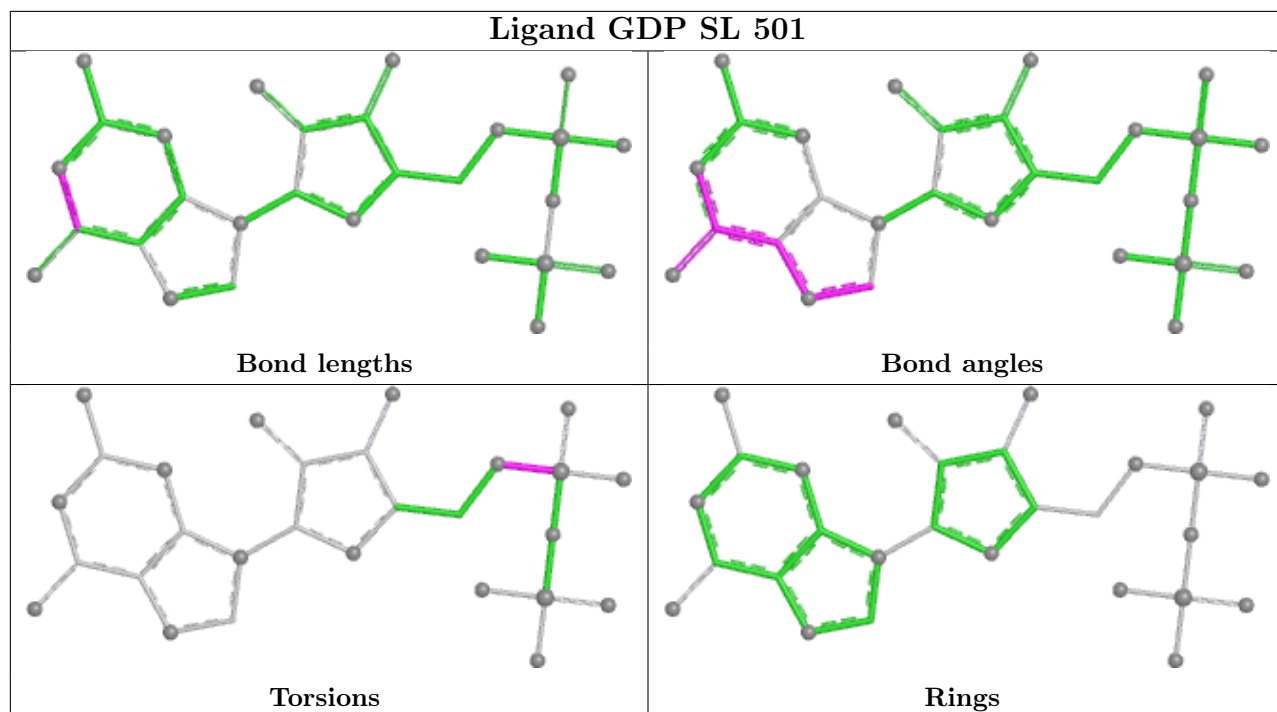


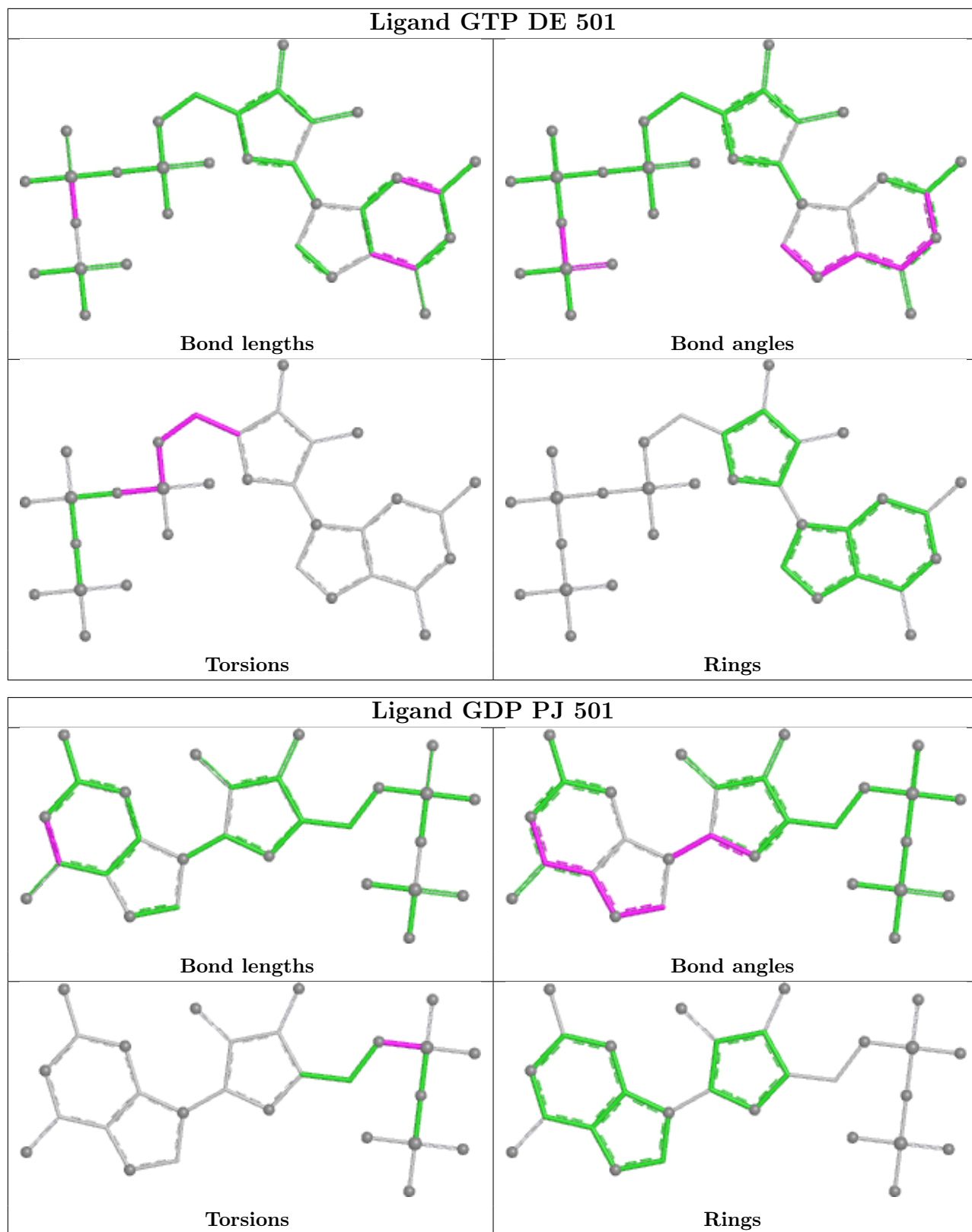


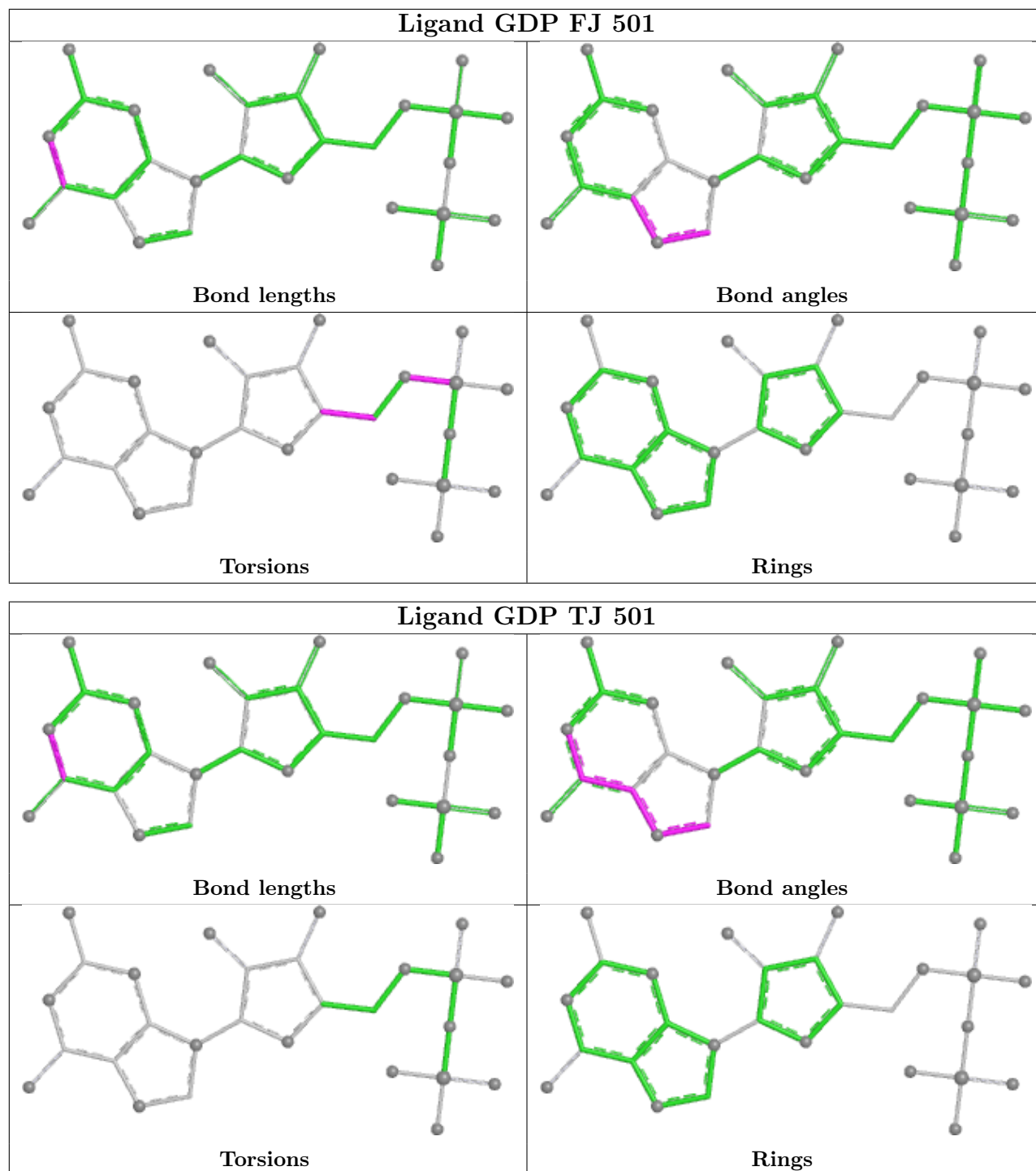


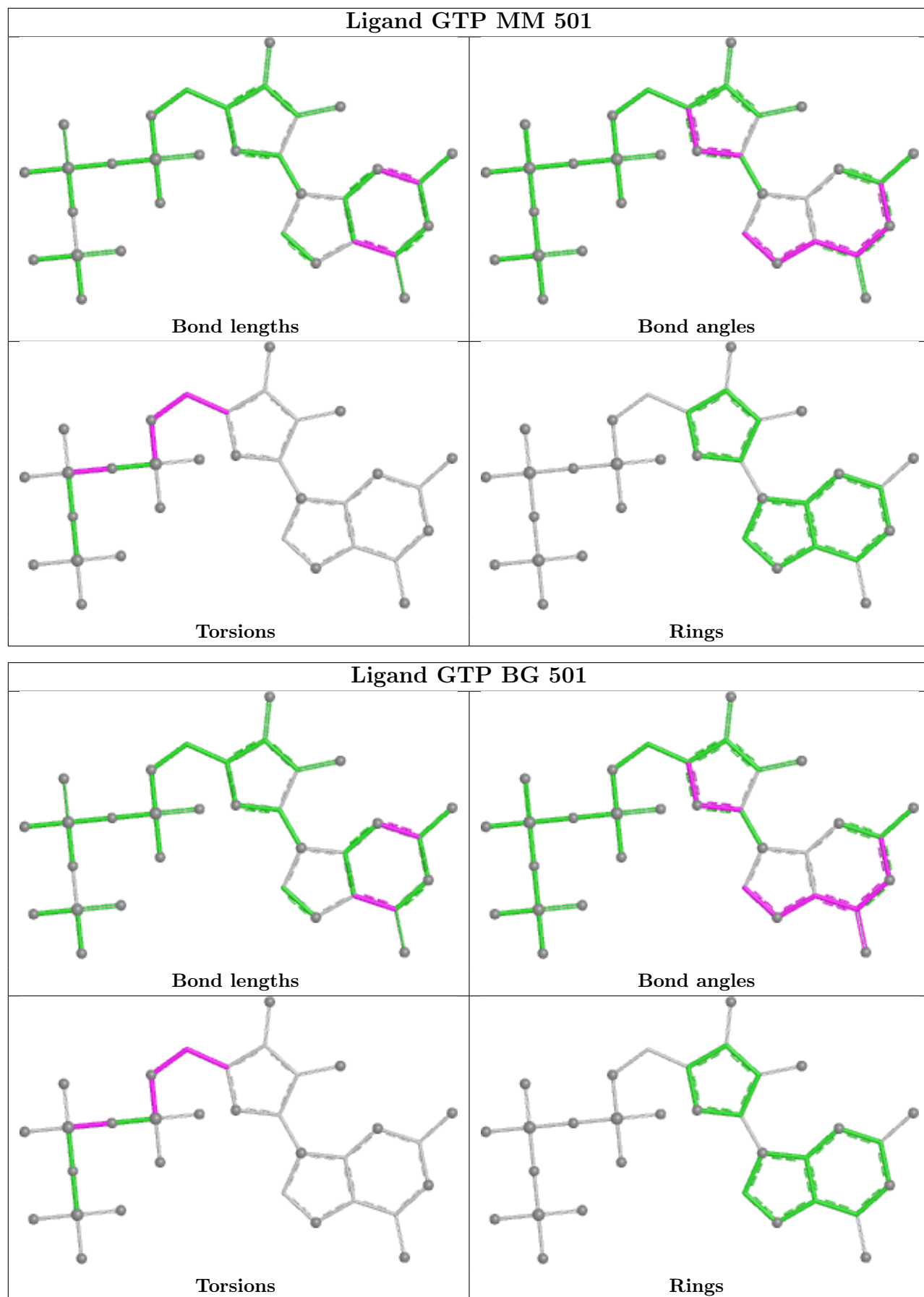


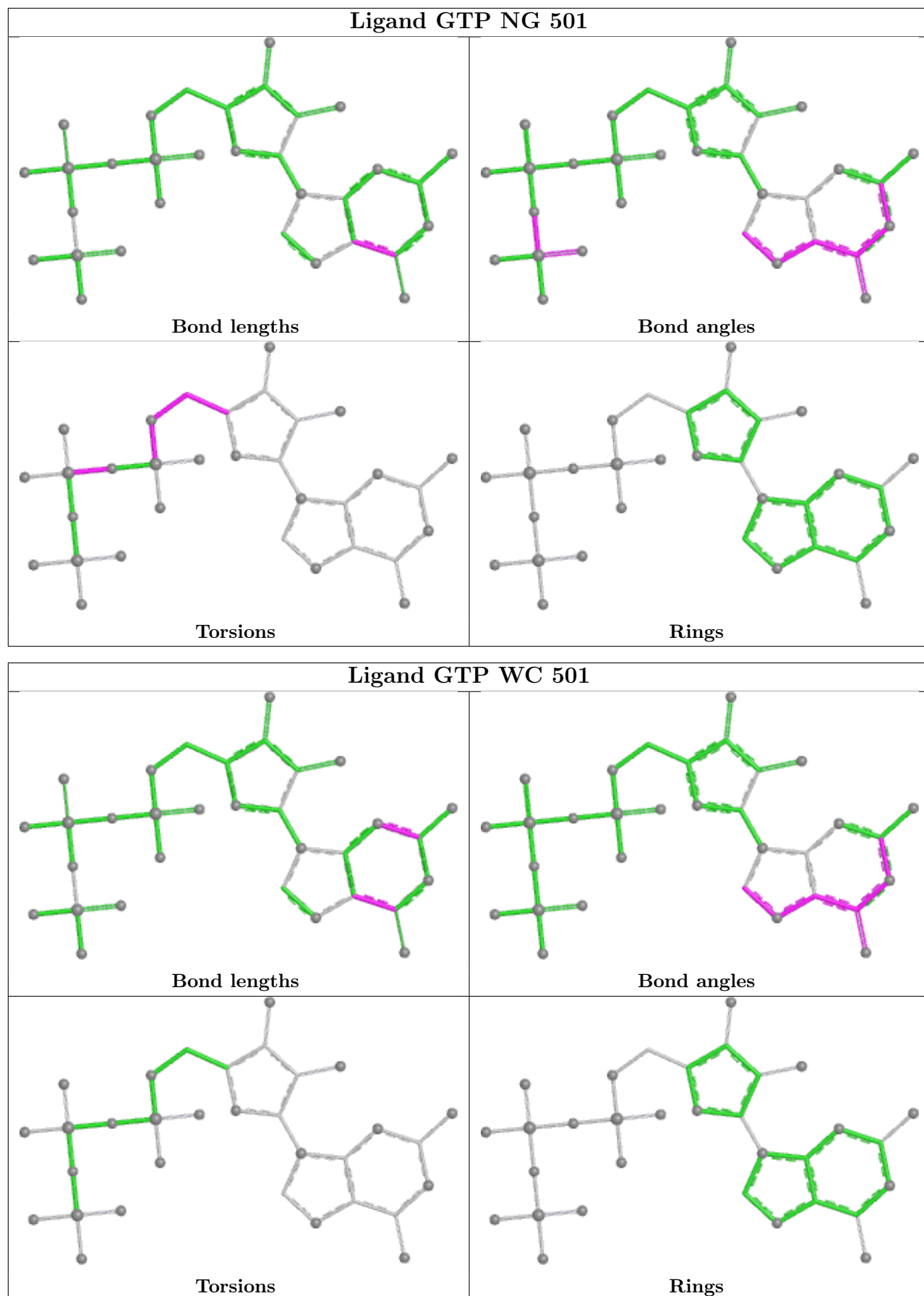


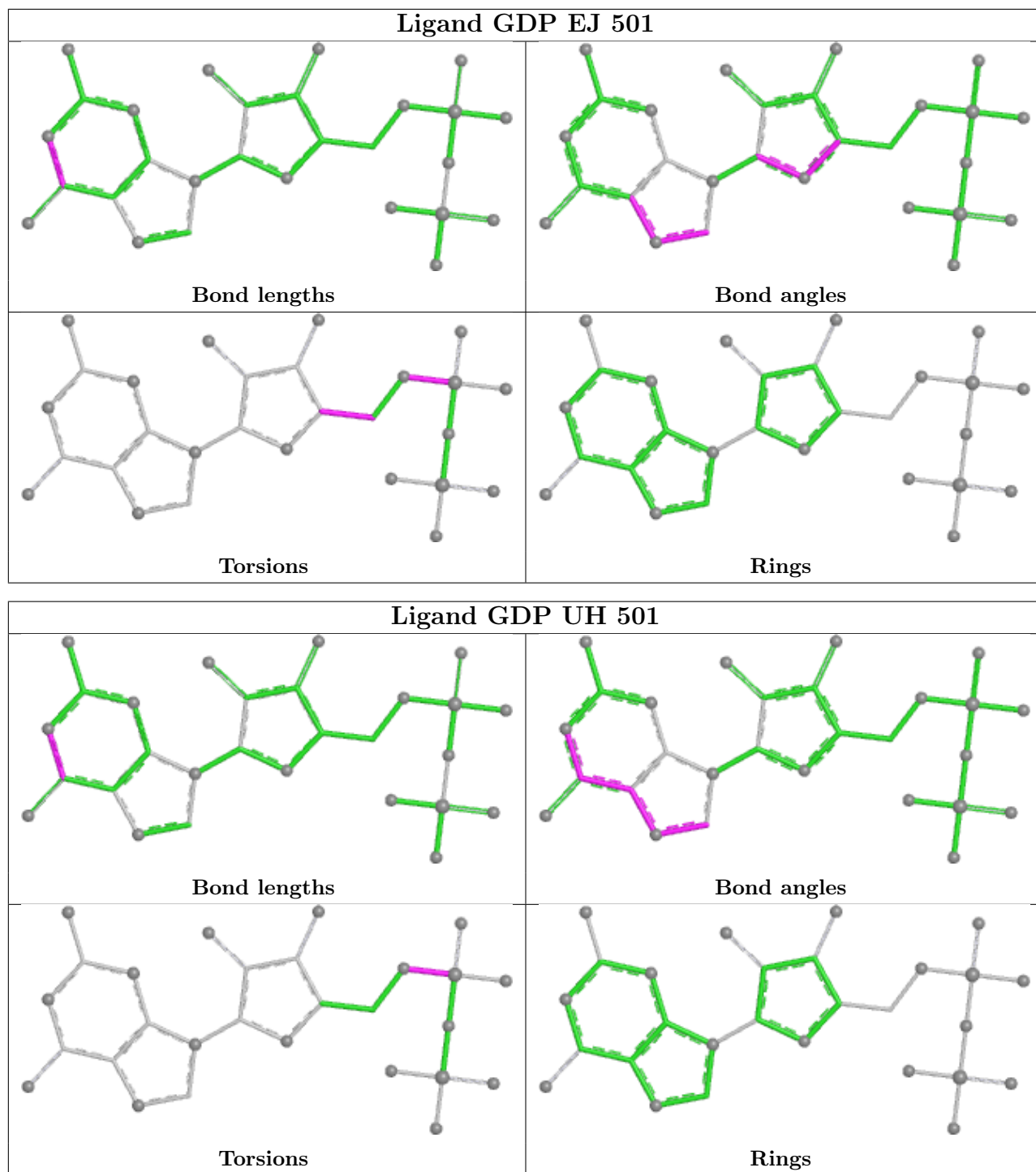


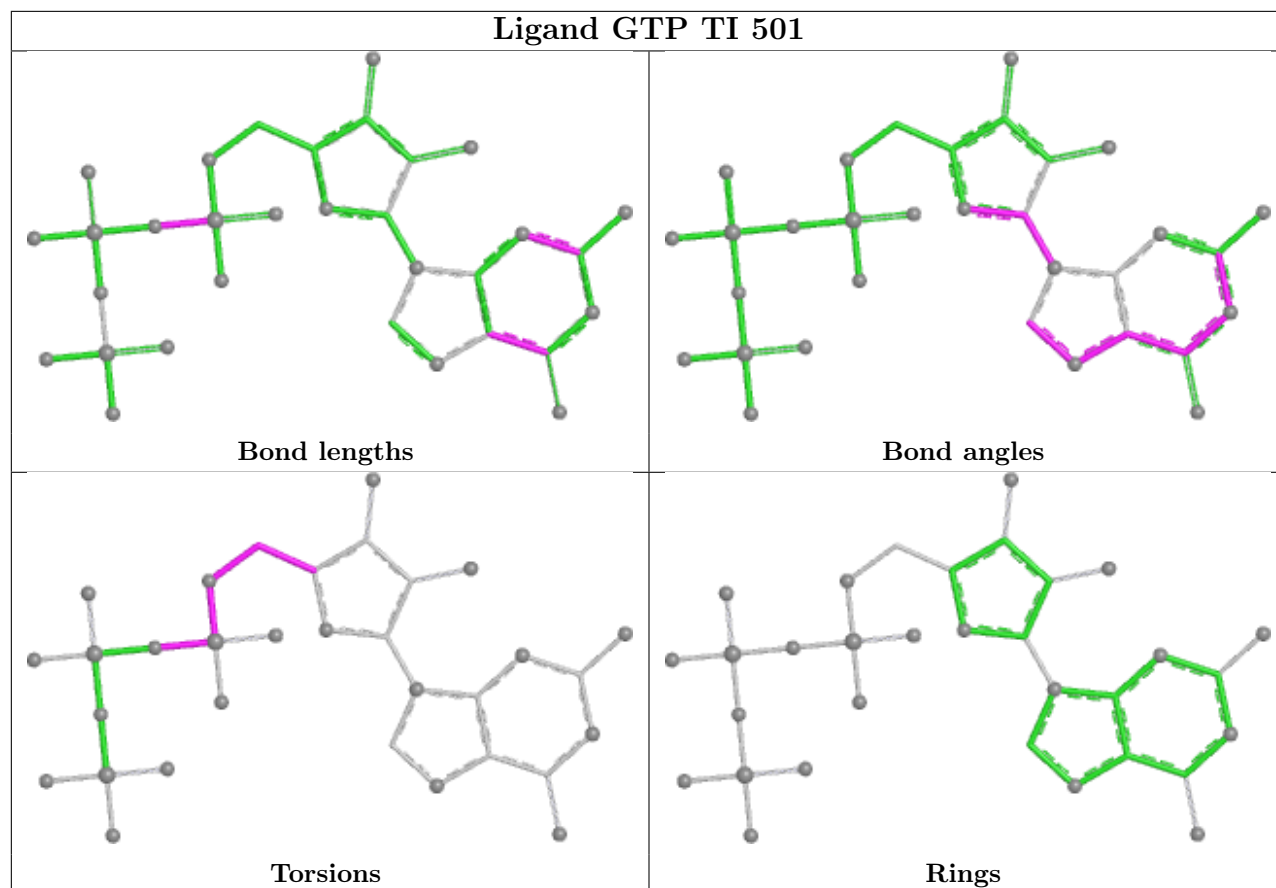












5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

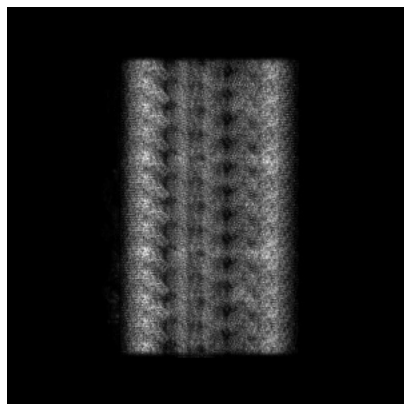
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-45801. These allow visual inspection of the internal detail of the map and identification of artifacts.

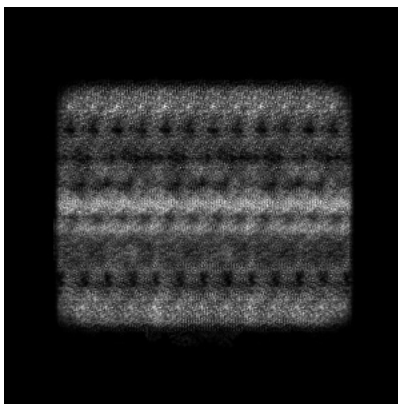
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

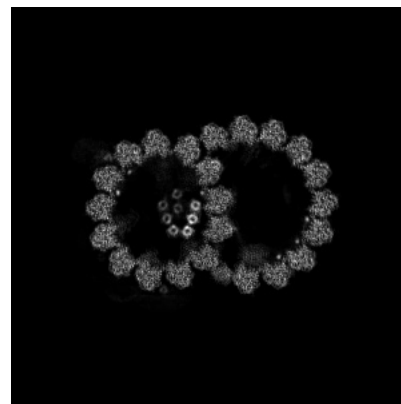
6.1.1 Primary map



X

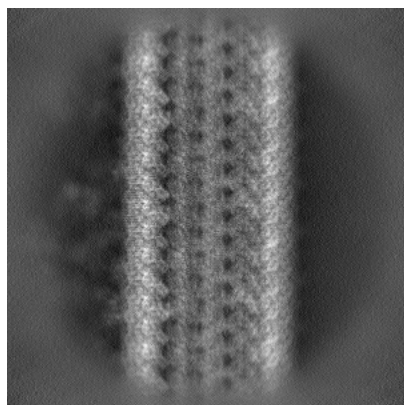


Y

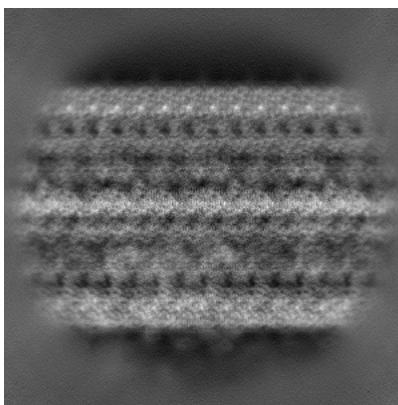


Z

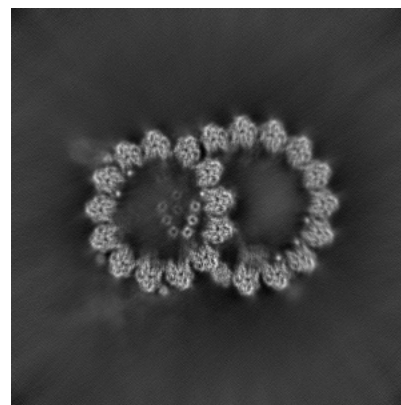
6.1.2 Raw map



X



Y

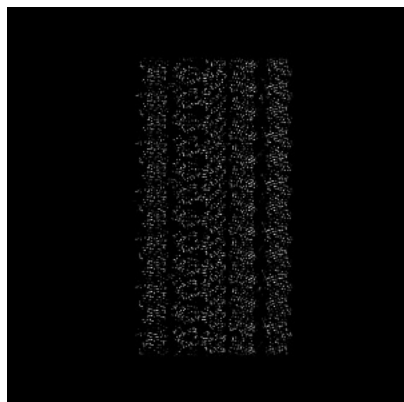


Z

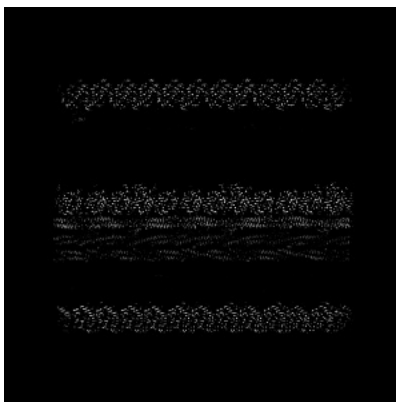
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

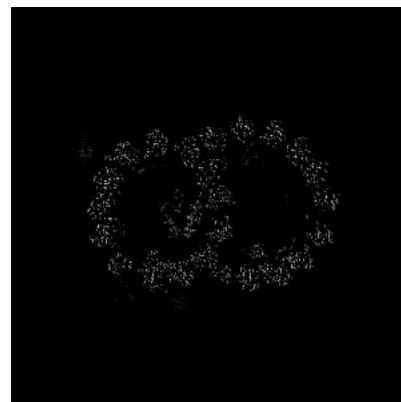
6.2.1 Primary map



X Index: 256

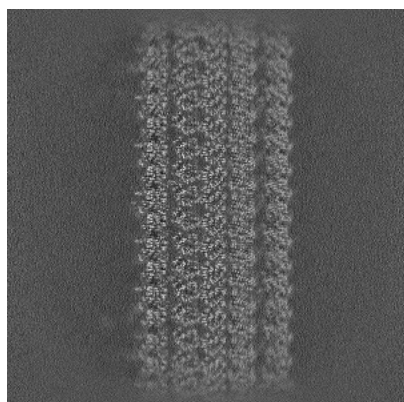


Y Index: 256

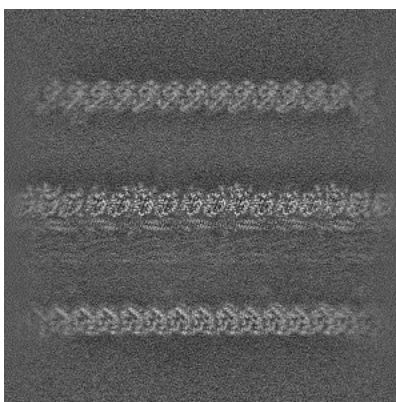


Z Index: 256

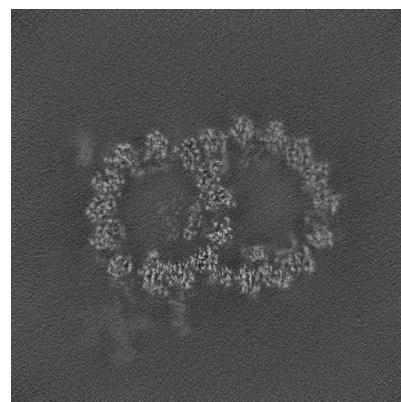
6.2.2 Raw map



X Index: 256



Y Index: 256

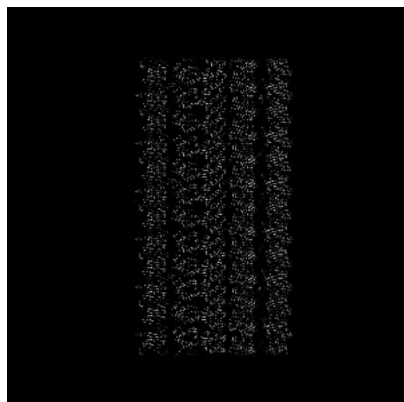


Z Index: 256

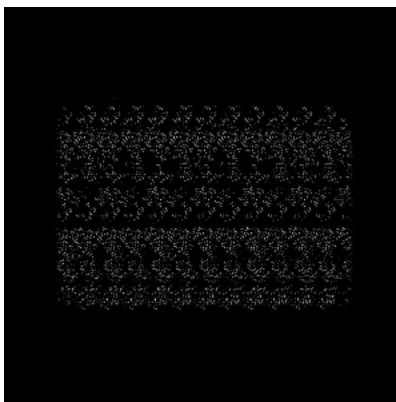
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

6.3.1 Primary map



X Index: 256

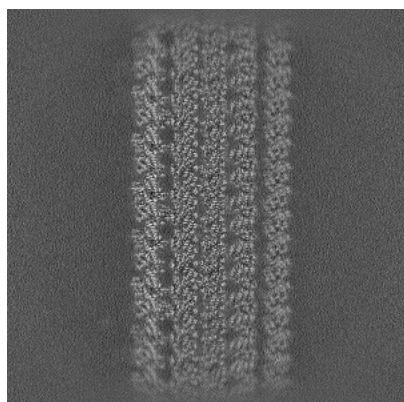


Y Index: 176

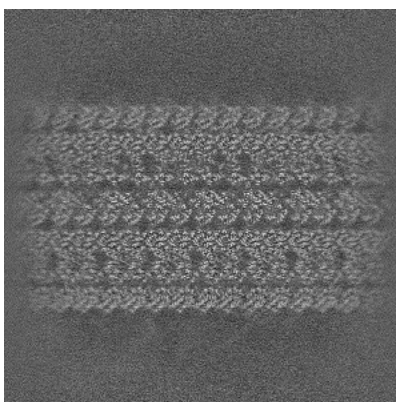


Z Index: 199

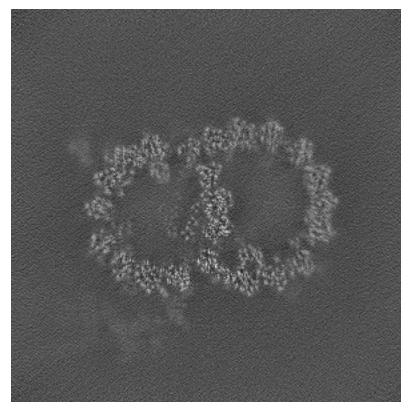
6.3.2 Raw map



X Index: 261



Y Index: 177

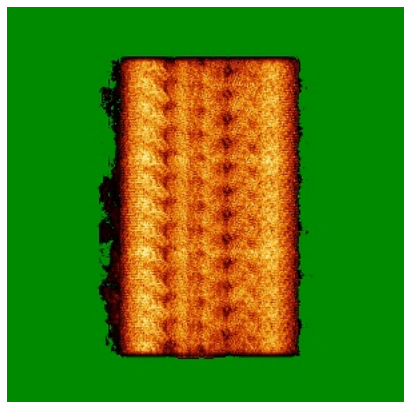


Z Index: 266

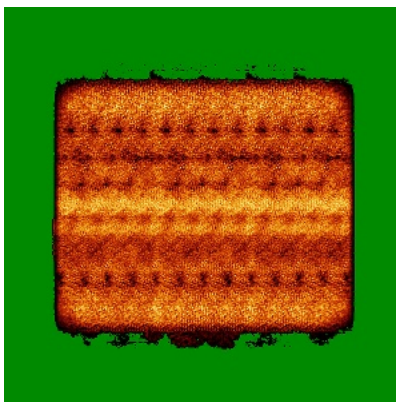
The images above show the largest variance slices of the map in three orthogonal directions.

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

6.4.1 Primary map



X

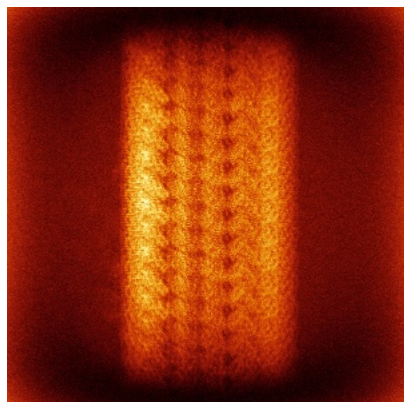


Y

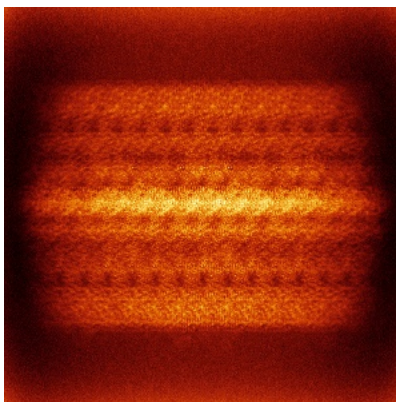


Z

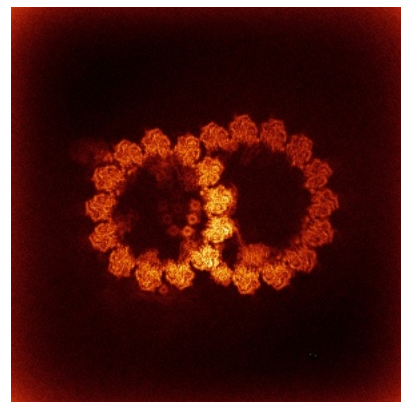
6.4.2 Raw map



X



Y

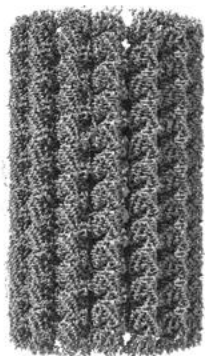


Z

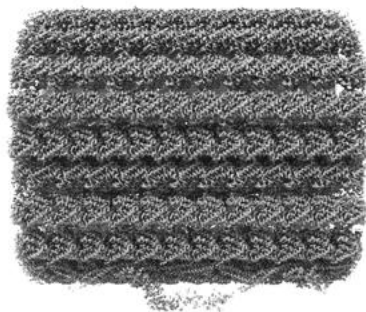
The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

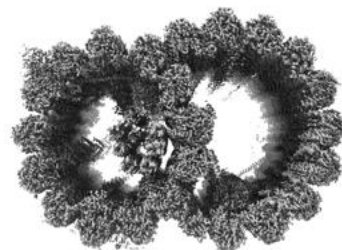
6.5.1 Primary map



X



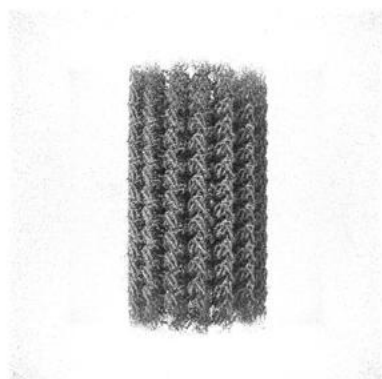
Y



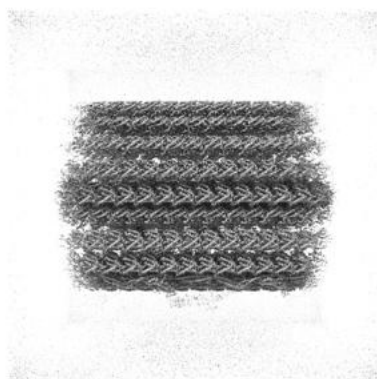
Z

The images above show the 3D surface view of the map at the recommended contour level 0.3. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

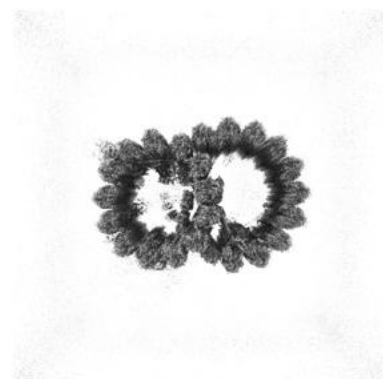
6.5.2 Raw map



X



Y



Z

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.

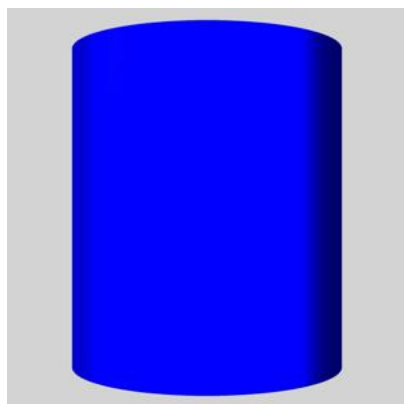
6.6 Mask visualisation [i](#)

This section shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

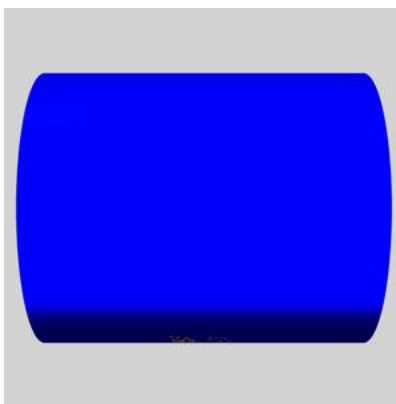
A mask typically either:

- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

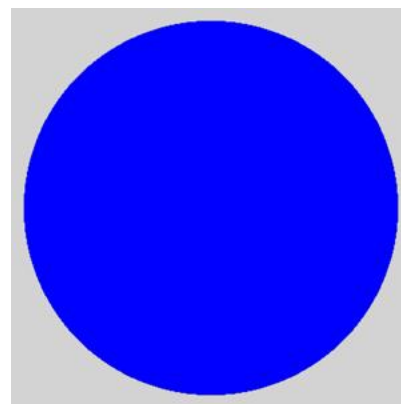
6.6.1 emd_45801_msk_1.map [i](#)



X



Y

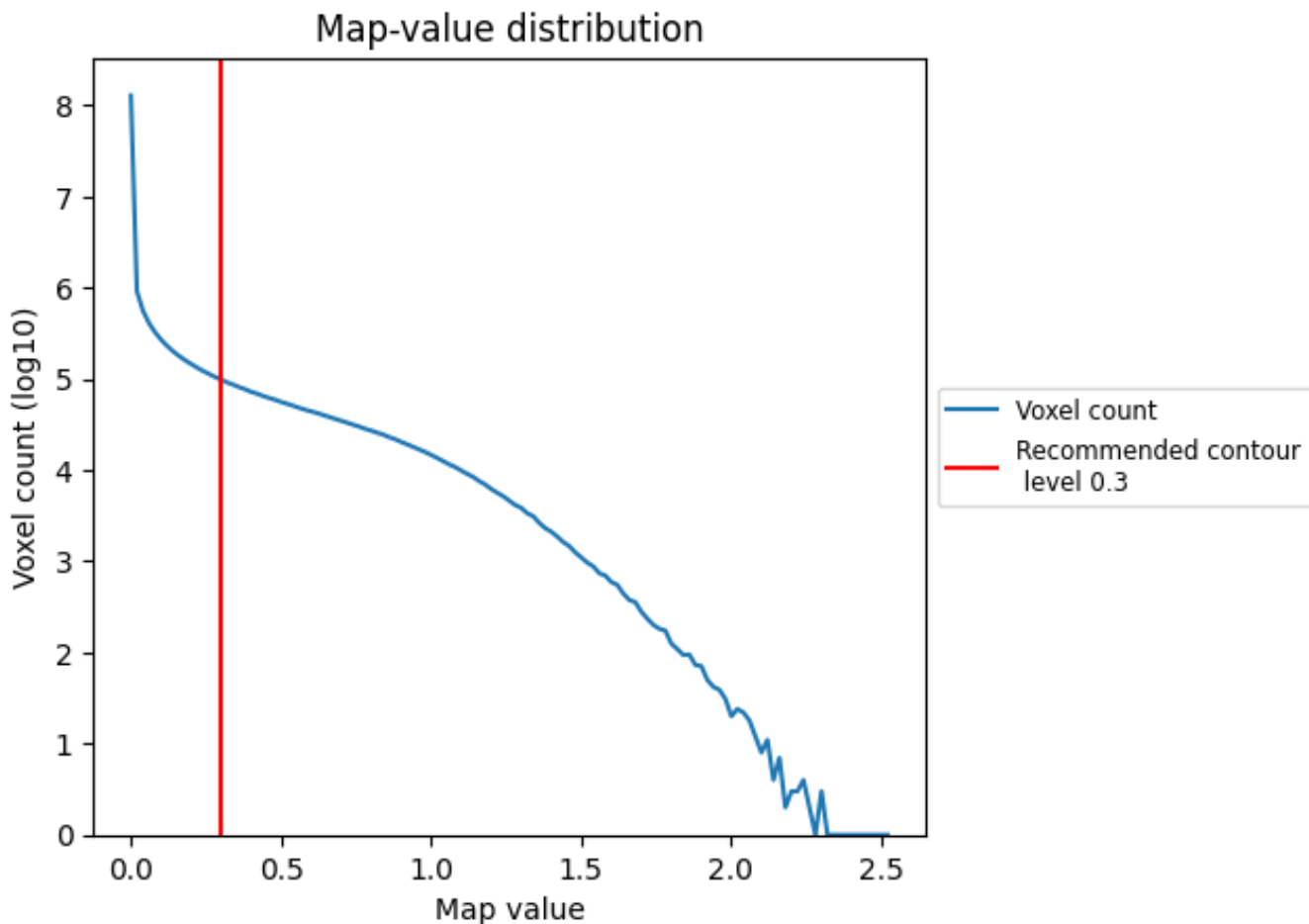


Z

7 Map analysis [i](#)

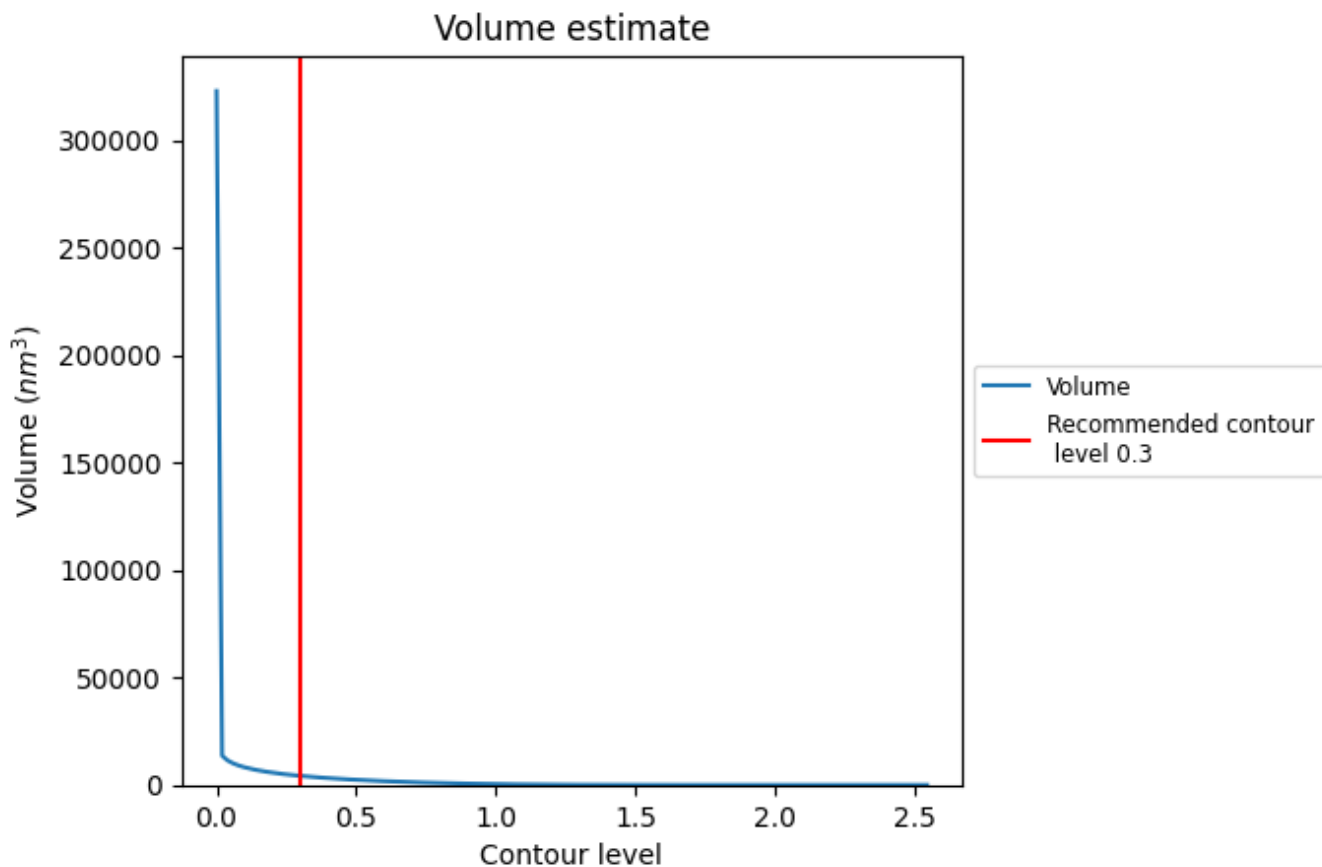
This section contains the results of statistical analysis of the map.

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.

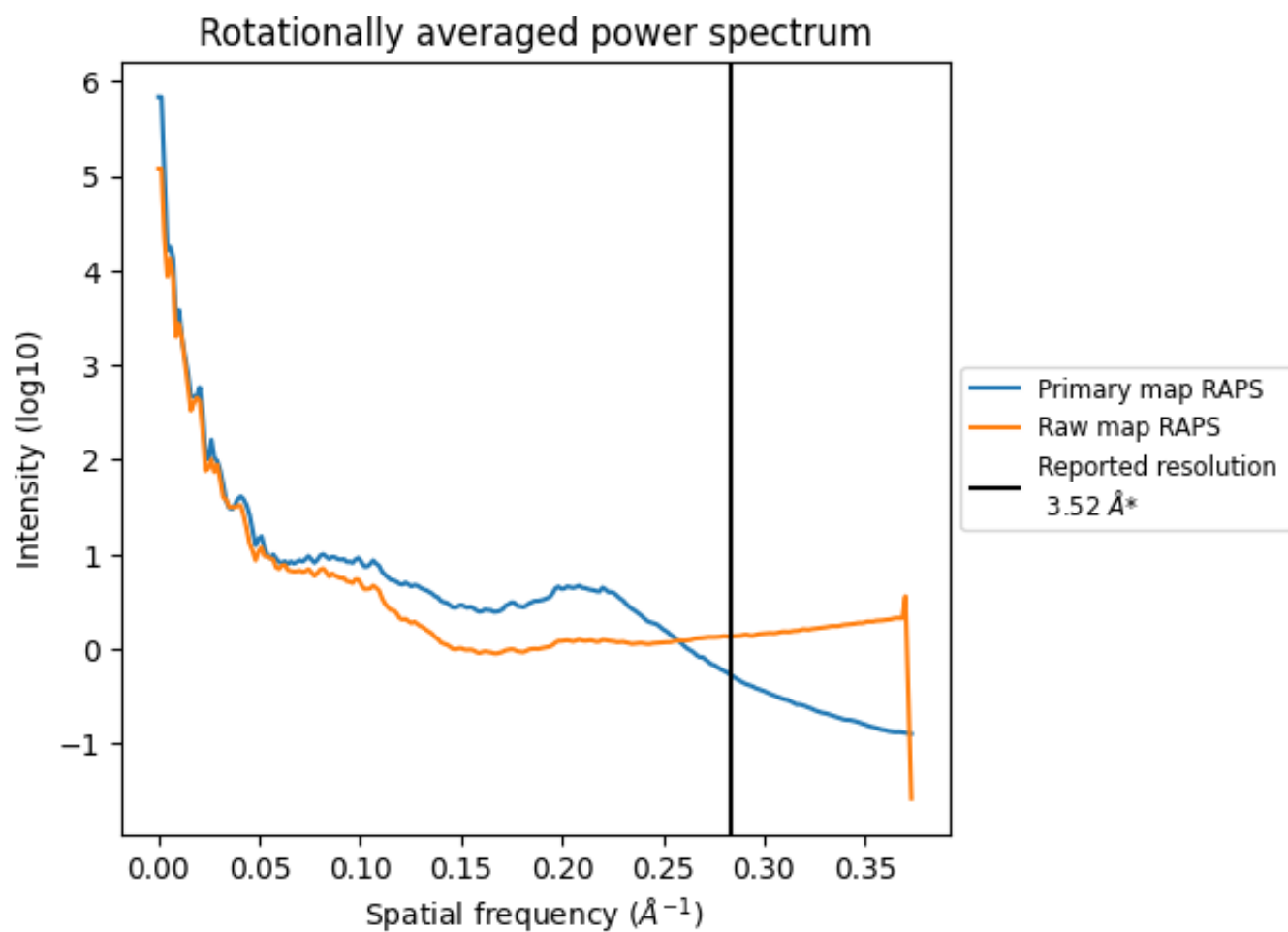
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 4225 nm^3 ; this corresponds to an approximate mass of 3816 kDa.

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

7.3 Rotationally averaged power spectrum i

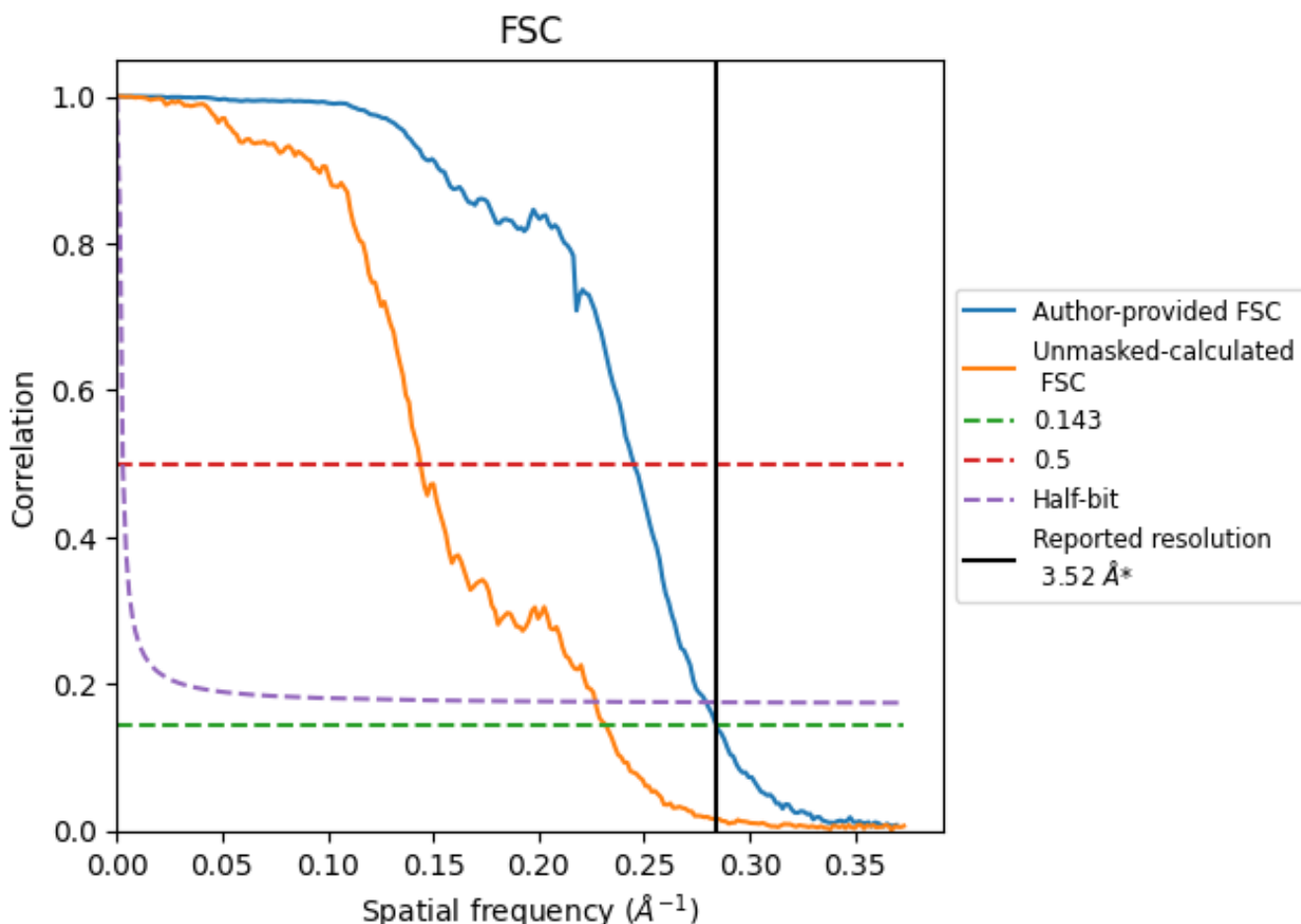


*Reported resolution corresponds to spatial frequency of 0.284 Å⁻¹

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 0.284 Å⁻¹

8.2 Resolution estimates [i](#)

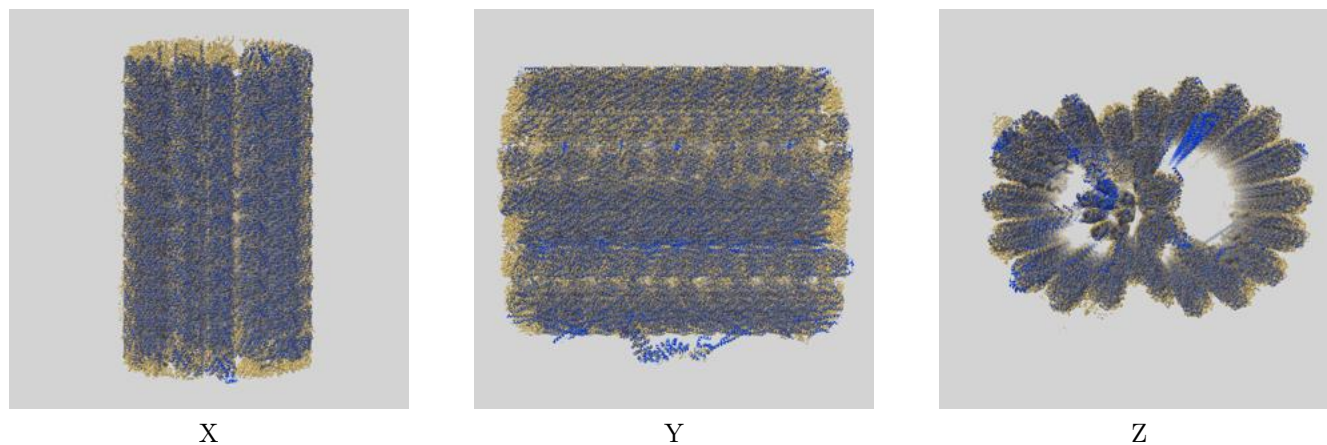
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.52	-	-
Author-provided FSC curve	3.52	4.08	3.58
Unmasked-calculated*	4.31	6.95	4.41

*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 4.31 differs from the reported value 3.52 by more than 10 %

9 Map-model fit [i](#)

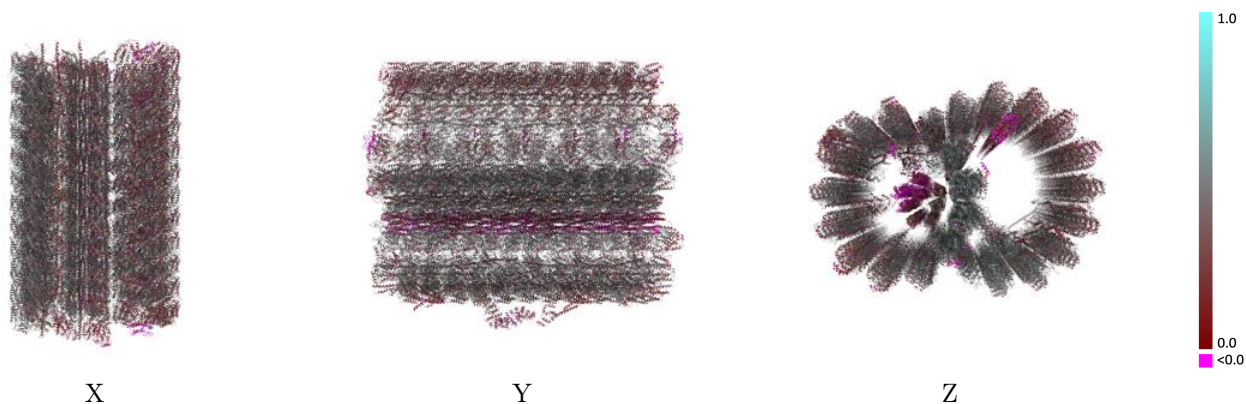
This section contains information regarding the fit between EMDB map EMD-45801 and PDB model 9CPB. Per-residue inclusion information can be found in section 3 on page 61.

9.1 Map-model overlay [i](#)



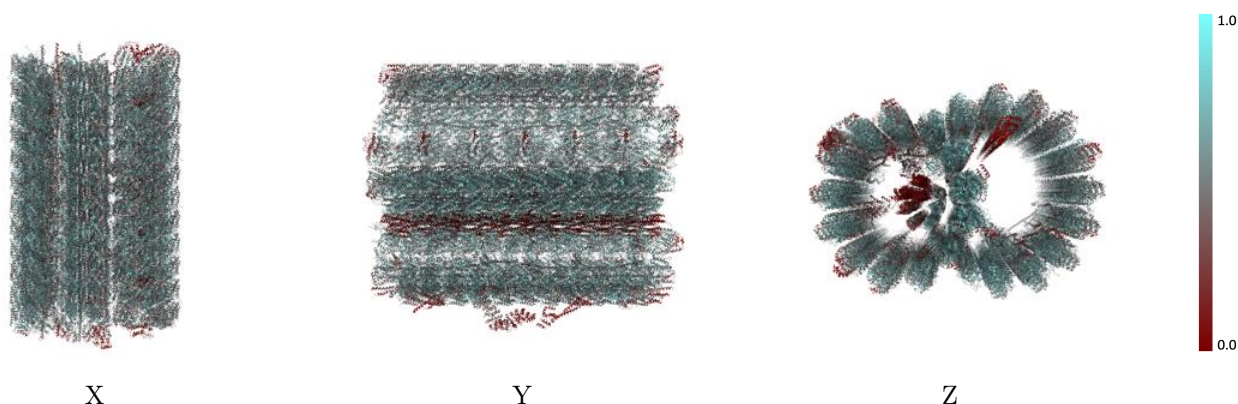
The images above show the 3D surface view of the map at the recommended contour level 0.3 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



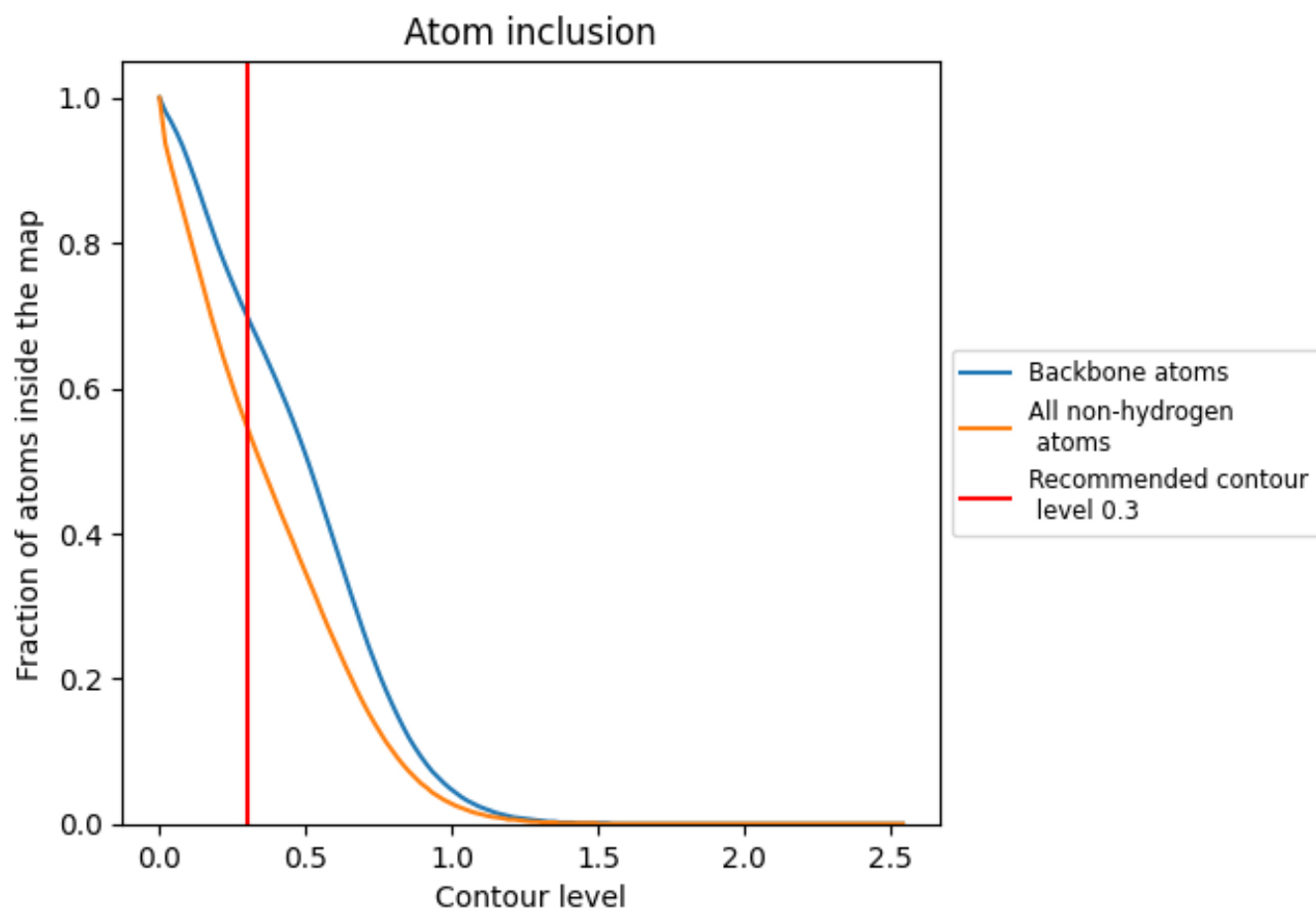
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.3).







































































9.4 Atom inclusion [i](#)



At the recommended contour level, 70% of all backbone atoms, 55% 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 (0.3) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.5460	 0.3920
1A	 0.2040	 0.2830
1D	 0.2740	 0.2720
1E	 0.3550	 0.3350
1F	 0.2100	 0.2710
1H	 0.5480	 0.3650
1I	 0.4580	 0.3370
1K	 0.3820	 0.2800
1L	 0.3540	 0.2590
1N	 0.6230	 0.4340
1O	 0.6220	 0.4400
1P	 0.6200	 0.4770
1R	 0.4690	 0.3600
1T	 0.5810	 0.4230
1U	 0.5540	 0.4450
1W	 0.5540	 0.4510
1X	 0.6030	 0.4470
1Y	 0.6210	 0.4540
1Z	 0.6040	 0.4540
2A	 0.5920	 0.4340
2B	 0.6040	 0.4330
2D	 0.2690	 0.2750
2E	 0.0250	 0.0980
2F	 0.5530	 0.4210
2G	 0.4940	 0.3720
2H	 0.4890	 0.3390
2J	 0.3500	 0.3190
2K	 0.3870	 0.3070
2L	 0.3080	 0.2520
2M	 0.3770	 0.2950
2O	 0.5800	 0.4570
2P	 0.5590	 0.4490
2Q	 0.5720	 0.4490
2S	 0.4100	 0.3040
2T	 0.4100	 0.2870























































































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Chain	Atom inclusion	Q-score
2V	 0.1390	 -0.0150
2W	 0.3370	 0.2550
2X	 0.3520	 0.2760
2Y	 0.3690	 0.2800
3A	 0.4000	 0.3830
3C	 0.4600	 0.3360
3D	 0.5340	 0.4000
3F	 0.0420	 0.2660
3H	 0.3180	 0.3930
3J	 0.5180	 0.4190
3K	 0.4680	 0.4010
3L	 0.4650	 0.3680
3N	 0.3920	 0.3480
3O	 0.4250	 0.3650
3P	 0.3700	 0.3330
3Q	 0.2450	 0.2160
3S	 0.5410	 0.4300
3T	 0.4850	 0.3910
3U	 0.4690	 0.3780
3V	 0.4470	 0.3350
3X	 0.0820	 0.2370
3Y	 0.4360	 0.4040
3Z	 0.3760	 0.3380
4A	 0.1380	 0.2790
4B	 0.3080	 0.2200
4C	 0.0020	 0.1020
4D	 0.4980	 0.3650
4F	 0.4550	 0.3510
4G	 0.3710	 0.3260
4I	 0.3360	 0.2280
4J	 0.4140	 0.3060
4K	 0.3390	 0.3180
4L	 0.3770	 0.3370
4M	 0.2750	 0.2790
4O	 0.5780	 0.4440
4P	 0.5660	 0.4490
4Q	 0.5820	 0.4590
4R	 0.5250	 0.4620
4S	 0.5690	 0.4270
4T	 0.3050	 0.3740
4V	 0.2690	 0.2540
4W	 0.5160	 0.3540





















































































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Chain	Atom inclusion	Q-score
4Y	 0.3370	 0.3590
5A	 0.4910	 0.3610
5B	 0.5000	 0.3280
5D	 0.0520	 -0.0100
5E	 0.2100	 0.2210
5F	 0.0620	 0.1350
5G	 0.1220	 0.1700
5H	 0.0360	 0.1140
5I	 0.0320	 -0.0550
5J	 0.0310	 0.0560
5L	 0.6150	 0.3740
5M	 0.5970	 0.3530
5N	 0.6160	 0.3620
5O	 0.6040	 0.3500
5Q	 0.5450	 0.3690
5R	 0.6430	 0.3940
5S	 0.6420	 0.3740
5T	 0.6410	 0.3650
5V	 0.1370	 0.0700
5W	 0.1440	 0.0860
5X	 0.1630	 0.0950
5Y	 0.1310	 0.0650
6A	 0.2820	 0.2230
6B	 0.3180	 0.2350
6C	 0.3330	 0.2370
6D	 0.3040	 0.2120
6E	 0.0130	 0.0920
6F	 0.0340	 0.0620
6G	 0.0650	 0.0790
6H	 0.0390	 0.0820
6I	 0.0200	 0.1010
6J	 0.0090	 0.0610
6K	 0.0290	 0.0970
6L	 0.0500	 0.1060
6M	 0.0410	 0.1000
6N	 0.0390	 0.1450
6P	 0.4010	 0.2870
6Q	 0.5080	 0.2980
6R	 0.5000	 0.3070
6S	 0.4950	 0.2900
6T	 0.0350	 -0.0600
6U	 0.0700	 -0.0260





















































































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Chain	Atom inclusion	Q-score
6V	 0.0620	 -0.0320
6W	 0.0520	 -0.0170
6Y	 0.4020	 0.3500
6Z	 0.4620	 0.3810
7C	 0.3440	 0.2210
7D	 0.4260	 0.2720
7E	 0.2640	 0.2970
7F	 0.3700	 0.3690
7H	 0.2210	 0.2830
7I	 0.2790	 0.3550
7K	 0.4600	 0.3700
7L	 0.3100	 0.3060
7N	 0.0510	 0.2710
AB	 0.5700	 0.4050
AC	 0.6350	 0.4920
AD	 0.6190	 0.4800
AE	 0.6340	 0.4870
AF	 0.6370	 0.4890
AG	 0.6320	 0.4980
AH	 0.6310	 0.5090
AI	 0.6310	 0.5080
AJ	 0.6310	 0.4870
AK	 0.6400	 0.5070
AL	 0.6180	 0.4780
BB	 0.5860	 0.4230
BC	 0.5780	 0.4410
BD	 0.6070	 0.4760
BE	 0.6200	 0.4480
BF	 0.6000	 0.4520
BG	 0.6220	 0.4610
BH	 0.6070	 0.4630
BI	 0.6350	 0.4850
BJ	 0.5630	 0.3930
BK	 0.6130	 0.4550
BL	 0.6010	 0.4380
CB	 0.5450	 0.3650
CC	 0.5940	 0.4470
CD	 0.5890	 0.4580
CE	 0.5820	 0.4060
CF	 0.6000	 0.4560
CG	 0.5930	 0.4600
CH	 0.5890	 0.4460

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Chain	Atom inclusion	Q-score
CI	 0.6020	 0.4170
CJ	 0.5980	 0.4590
CK	 0.5940	 0.4520
CL	 0.5860	 0.4340
CM	 0.5100	 0.3960
DB	 0.4320	 0.3090
DC	 0.5410	 0.3610
DD	 0.5570	 0.3830
DE	 0.5670	 0.3890
DF	 0.5790	 0.3890
DG	 0.5780	 0.4020
DH	 0.5800	 0.4140
DI	 0.5720	 0.3900
DJ	 0.6020	 0.4180
DK	 0.5900	 0.4240
DL	 0.5820	 0.3930
DM	 0.5110	 0.3440
EC	 0.5670	 0.3550
ED	 0.6280	 0.4390
EE	 0.6350	 0.4520
EF	 0.6260	 0.4120
EG	 0.6360	 0.4370
EH	 0.5960	 0.3960
EI	 0.6240	 0.4170
EJ	 0.6070	 0.3850
EK	 0.6110	 0.4260
EL	 0.6030	 0.3990
EM	 0.5730	 0.4010
FC	 0.5500	 0.4020
FD	 0.6120	 0.4360
FE	 0.5840	 0.3870
FF	 0.5990	 0.3850
FG	 0.5760	 0.3780
FH	 0.5530	 0.3520
FI	 0.5670	 0.3660
FJ	 0.5830	 0.3680
FK	 0.5990	 0.4230
FL	 0.5940	 0.4330
FM	 0.5160	 0.3240
GC	 0.5030	 0.3490
GD	 0.5990	 0.4260
GE	 0.5940	 0.4020





















































































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Chain	Atom inclusion	Q-score
GF	0.5980	0.3900
GG	0.5950	0.4110
GH	0.5920	0.4030
GI	0.5950	0.4030
GJ	0.6400	0.4570
GK	0.5790	0.3990
GL	0.5890	0.3900
GM	0.5880	0.4340
HB	0.5470	0.4140
HC	0.5640	0.4120
HD	0.6130	0.4560
HE	0.6020	0.4030
HF	0.5920	0.4070
HG	0.6210	0.4610
HH	0.6030	0.4040
HI	0.6230	0.4700
HJ	0.6300	0.4650
HK	0.5910	0.4040
HL	0.6130	0.4590
HM	0.6100	0.4650
IC	0.4960	0.3630
ID	0.5900	0.4230
IE	0.5980	0.4560
IF	0.5910	0.4320
IG	0.6060	0.4190
IH	0.6060	0.4290
II	0.6070	0.4400
IJ	0.5980	0.4180
IK	0.5890	0.3910
IL	0.5900	0.4210
IM	0.5900	0.4270
IN	0.5940	0.4370
JC	0.5970	0.3990
JD	0.6240	0.4250
JE	0.6160	0.4260
JF	0.6330	0.4350
JG	0.6290	0.4430
JH	0.5840	0.3880
JI	0.6010	0.4120
JJ	0.6350	0.4320
JK	0.6120	0.4630
JL	0.6090	0.4530

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Chain	Atom inclusion	Q-score
JM	 0.6200	 0.4530
KC	 0.6470	 0.4860
KD	 0.6560	 0.4770
KE	 0.6630	 0.5030
KF	 0.6560	 0.4950
KG	 0.6820	 0.5090
KH	 0.6590	 0.5010
KI	 0.6710	 0.5110
KJ	 0.6600	 0.5020
KK	 0.6740	 0.4970
KL	 0.6710	 0.5120
KM	 0.6560	 0.5100
KN	 0.6520	 0.4720
LC	 0.6600	 0.4890
LD	 0.6610	 0.5140
LE	 0.6550	 0.5040
LF	 0.6650	 0.5060
LG	 0.6770	 0.5200
LH	 0.6640	 0.5070
LI	 0.6520	 0.4980
LJ	 0.6770	 0.5080
LK	 0.6680	 0.5110
LL	 0.6570	 0.5070
LM	 0.6570	 0.4930
LN	 0.6240	 0.4670
MC	 0.6420	 0.4420
MD	 0.6520	 0.4940
ME	 0.6580	 0.4610
MF	 0.6540	 0.4700
MG	 0.6500	 0.4750
MH	 0.6400	 0.4680
MI	 0.6500	 0.4610
MJ	 0.6530	 0.4490
MK	 0.5810	 0.3820
ML	 0.6180	 0.4290
MM	 0.6300	 0.4280
MN	 0.4990	 0.3940
NA	 0.5850	 0.4170
NB	 0.5880	 0.4270
NC	 0.6010	 0.4600
ND	 0.6070	 0.4340
NE	 0.5810	 0.4280

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Chain	Atom inclusion	Q-score
NF	0.5930	0.4390
NG	0.5920	0.4340
NH	0.6030	0.4250
NI	0.5850	0.4310
NJ	0.5780	0.4160
NK	0.5920	0.4240
NL	0.5160	0.3490
OA	0.5470	0.3810
OB	0.5900	0.4270
OC	0.5890	0.4240
OD	0.5710	0.3930
OE	0.5850	0.4070
OF	0.5720	0.4060
OG	0.5790	0.4250
OH	0.5880	0.4070
OI	0.5980	0.4170
OJ	0.5710	0.4120
OK	0.5730	0.4060
OL	0.5520	0.3660
PA	0.4730	0.3190
PB	0.5660	0.3680
PC	0.5570	0.3660
PD	0.5720	0.3760
PE	0.5980	0.3810
PF	0.5710	0.3790
PG	0.6050	0.4290
PH	0.5920	0.4070
PI	0.6180	0.4180
PJ	0.5900	0.4140
PK	0.5620	0.3790
PL	0.5300	0.3260
QB	0.4960	0.3060
QC	0.5190	0.3250
QD	0.5360	0.3380
QE	0.5570	0.3270
QF	0.5300	0.3290
QG	0.5240	0.3330
QH	0.5330	0.3380
QI	0.5760	0.3530
QJ	0.5500	0.3540
QK	0.5290	0.3560
QL	0.4900	0.3010



















































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Chain	Atom inclusion	Q-score
RB	0.4370	0.2990
RC	0.5110	0.3280
RD	0.5640	0.3630
RE	0.5770	0.3420
RF	0.5690	0.3590
RG	0.5390	0.3510
RH	0.5480	0.3450
RI	0.5740	0.3480
RJ	0.5730	0.3710
RK	0.5380	0.3490
RL	0.4980	0.3130
SC	0.5320	0.3420
SD	0.5630	0.3710
SE	0.5790	0.3810
SF	0.5670	0.3680
SG	0.5580	0.3760
SH	0.5470	0.3600
SI	0.6040	0.3840
SJ	0.5610	0.3610
SK	0.5590	0.3610
SL	0.5360	0.3540
SM	0.3420	0.2680
TC	0.5040	0.3190
TD	0.5780	0.3830
TE	0.5620	0.3820
TF	0.5940	0.3710
TG	0.5440	0.3610
TH	0.5600	0.3740
TI	0.5710	0.3790
TJ	0.5910	0.3880
TK	0.5900	0.4080
TL	0.5680	0.3900
TM	0.4470	0.2940
UC	0.5560	0.3890
UD	0.5870	0.4120
UE	0.5780	0.3990
UF	0.6050	0.4050
UG	0.6000	0.4160
UH	0.5900	0.4140
UI	0.5850	0.3980
UJ	0.6150	0.4180
UK	0.5930	0.4170

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Chain	Atom inclusion	Q-score
UL	 0.5880	 0.4190
UM	 0.5600	 0.3950
VC	 0.5880	 0.4470
VD	 0.5930	 0.4580
VE	 0.6060	 0.4660
VF	 0.6180	 0.4600
VG	 0.5950	 0.4540
VH	 0.6110	 0.4630
VI	 0.6100	 0.4620
VJ	 0.6150	 0.4410
VK	 0.5840	 0.4470
VL	 0.5990	 0.4640
VM	 0.5910	 0.4510
WC	 0.6050	 0.4720
WD	 0.6300	 0.4840
WE	 0.6230	 0.4850
WF	 0.6320	 0.4720
WG	 0.6190	 0.4750
WH	 0.6310	 0.4790
WI	 0.6330	 0.4820
WJ	 0.6290	 0.4780
WK	 0.6170	 0.4750
WL	 0.6350	 0.4870
WM	 0.6230	 0.4750
WN	 0.5790	 0.4420