Full wwPDB EM Validation Report

Mar 15, 2026 – 08:54 PM EDT

PDB ID	:	8G2Z / pdb_00008g2z
EMDB ID	:	EMD-29685
Title	:	48-nm doublet microtubule from Tetrahymena thermophila strain CU428
Authors	:	Black, C.S.; Kubo, S.; Yang, S.K.; Bui, K.H.
Deposited on	:	2023-02-06
Resolution	:	4.10 Å(reported)

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

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

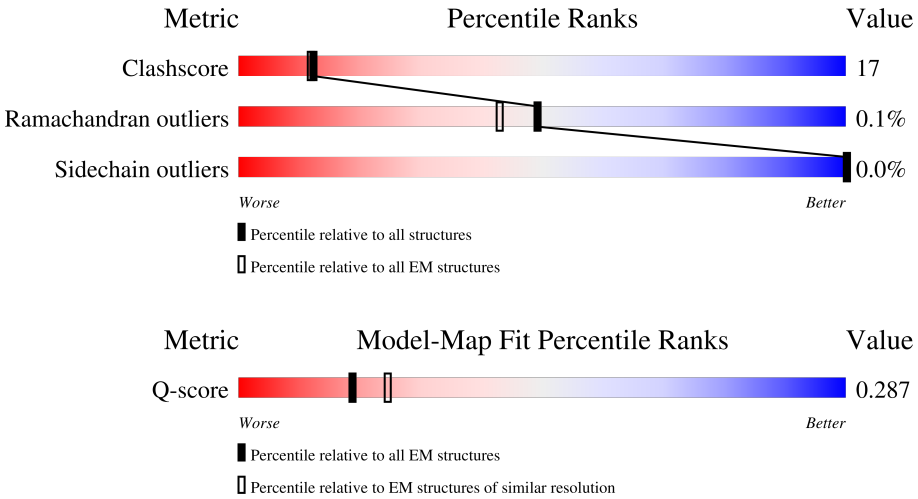
EMDB validation analysis	:	0.0.1.dev132
Mogul	:	2022.3.0, CSD as543be (2022)
MolProbity	:	4-5-2 with Phenix2.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 4.10 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	6458 (3.60 - 4.60)

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

Mol	Chain	Length	Quality of chain
1	0A	236	13% 39% 23% • 36%
1	1A	236	13% 40% 23% • 36%
1	2A	236	9% 39% 24% • 36%
1	3A	236	11% 39% 24% • 36%

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Mol	Chain	Length	Quality of chain
2	0B	329	5% 61% 35%
3	0C	156	8% 30% 29% 39%
3	1C	156	8% 32% 27% 39%
4	0D	225	33% 46% 40% 10%
4	1D	225	23% 48% 37% 10%
4	2D	225	23% 48% 37% 10%
5	0E	191	42% 51% 47%
5	1E	191	38% 48% 50%
5	2E	191	28% 49% 49%
5	3E	191	64% 53% 45%
6	0F	219	7% 42% 50% 6%
7	0G	183	23% 45% 43% 8%
7	1G	183	17% 39% 33% 26%
8	0H	447	16% 14% 13% 73%
8	1H	447	47% 48% 46% 5%
9	0N	492	8% 33% 24% 43%
9	1N	492	5% 61% 33% 6%
9	2N	492	11% 35% 22% 43%
10	0Q	195	8% 55% 41% 5%
10	1Q	195	6% 50% 46% 5%
10	2Q	195	6% 54% 41% 5%
10	3Q	195	5% 51% 44% 5%
10	4Q	195	7% 52% 44% 5%
10	5Q	195	7% 55% 40% 5%
10	6Q	195	13% 54% 42% 5%

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Mol	Chain	Length	Quality of chain
11	0S	319	49% 56% 34% 10%
11	1S	319	6% 49% 41% 10%
11	2S	319	7% 55% 34% 10%
11	3S	319	57% 33% 10%
12	0T	298	45% 57% 31% 12%
12	1T	298	6% 57% 38%
12	2T	298	5% 51% 44%
12	3T	298	7% 50% 46%
13	0U	656	14% 49% 43% 7%
13	1U	656	6% 54% 38% 7%
13	2U	656	5% 52% 41% 7%
13	3U	656	14% 50% 42% 7%
14	0V	269	45% 59% 19% 21%
14	1V	269	24% 64% 32%
14	2V	269	24% 51% 45%
14	3V	269	29% 63% 34%
15	0X	142	11% 41% 35% 23%
15	1X	142	63% 35%
15	2X	142	65% 33%
15	3X	142	13% 65% 34%
15	4X	142	10% 53% 46%
16	1B	498	12% 65% 34%
16	2B	498	9% 38% 21% 41%
16	3B	498	12% 35% 24% 41%
17	1F	173	12% 44% 31% 21%

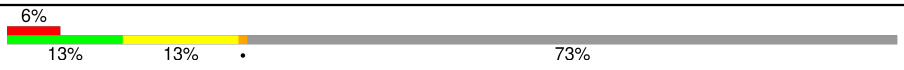
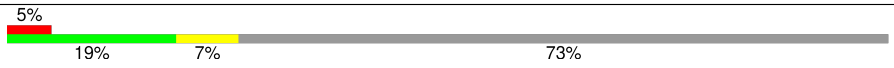
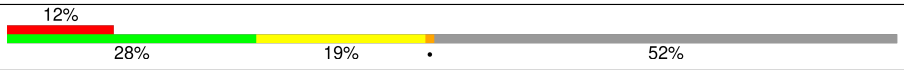
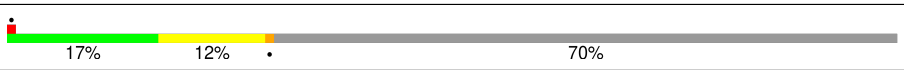
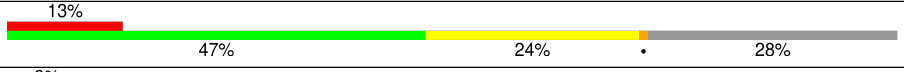
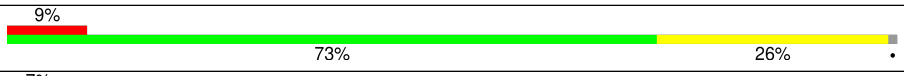
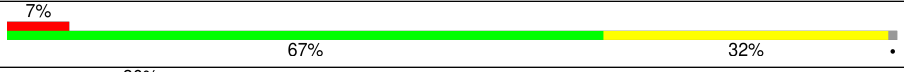
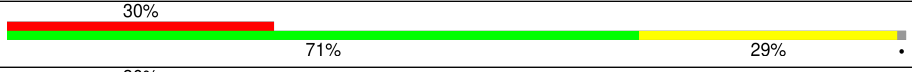
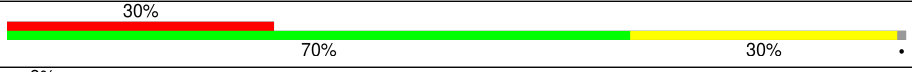
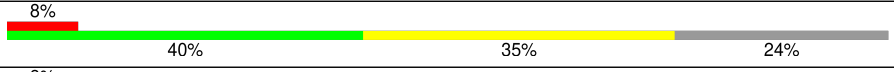
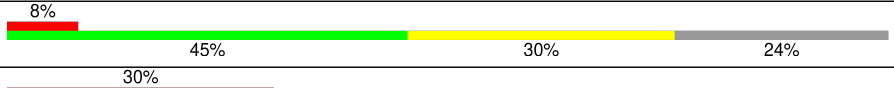
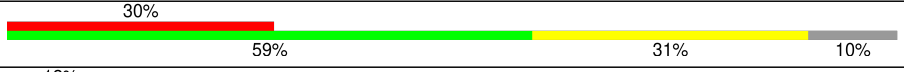
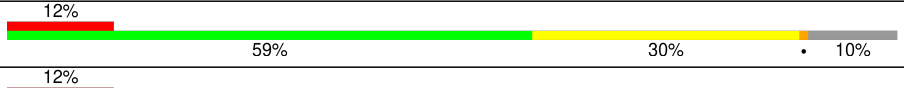
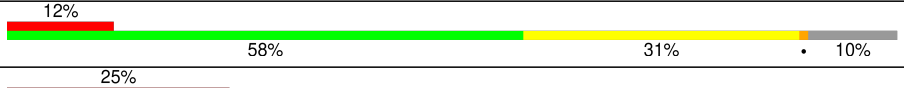
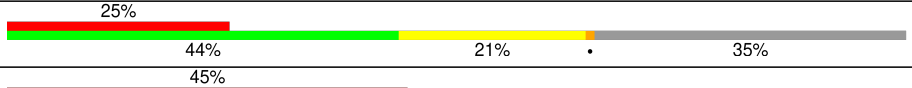
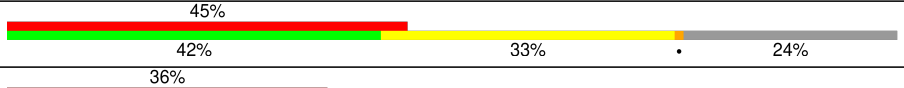
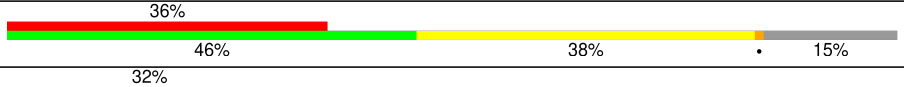
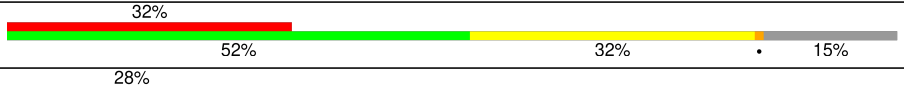
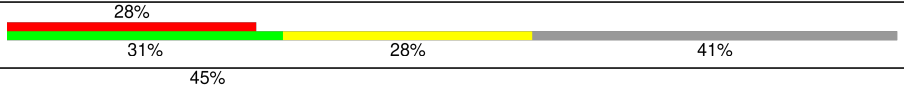
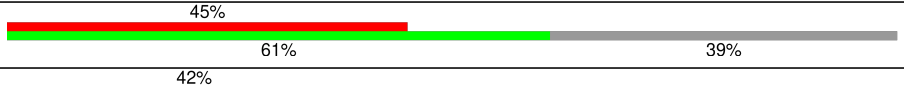
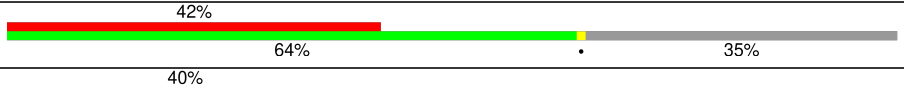
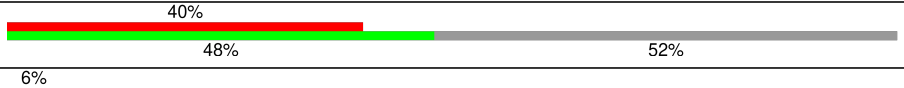
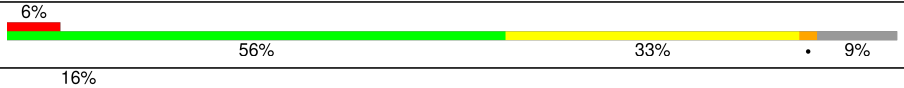
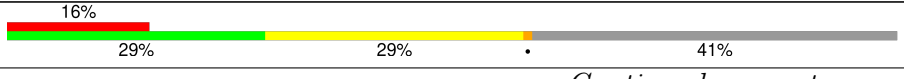
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Mol	Chain	Length	Quality of chain
18	1I	263	6% 41% 29% 29%
19	1J	422	16% 49% 38% 12%
20	1K	489	18% 33% 24% 43%
20	2K	489	22% 33% 26% 41%
21	1L	940	20% 52% 35% 13%
21	2L	940	32% 42% 23% 34%
21	3L	940	15% 12% 9% 79%
22	1M	372	6% 65% 34%
22	2M	372	66% 33%
23	1O	494	28% 24% 24% 51%
23	2O	494	38% 30% 45% 25%
23	3O	494	32% 33% 23% 44%
24	1P	507	32% 38% 32% 30%
24	2P	507	15% 21% 16% 63%
25	1R	516	9% 68% 30%
25	2R	516	8% 65% 34%
25	3R	516	7% 66% 32%
26	1W	280	10% 54% 26% 20%
26	2W	280	18% 19% 22% 59%
27	2C	300	26% 59% 40%
27	3C	300	17% 61% 38%
27	4C	300	17% 59% 40%
28	2F	96	10% 54% 36% 9%
29	2G	99	7% 64% 35%
30	2H	229	5% 14% 12% 73%

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Mol	Chain	Length	Quality of chain
30	3H	229	
30	4H	229	
31	2I	293	
31	3I	293	
32	3D	237	
33	4F	276	
34	4R	613	
34	5R	613	
34	6R	613	
34	7R	613	
35	4S	249	
35	5S	249	
36	5A	175	
36	5B	175	
36	5C	175	
36	5D	175	
37	5E	247	
37	5F	247	
37	5G	247	
37	5H	247	
38	5I	168	
38	5J	168	
38	5K	168	
39	6F	145	
40	6G	364	

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Mol	Chain	Length	Quality of chain
41	6H	518	7% 19% 12% 68%
42	8L	507	20% 75% 24%
42	8N	507	23% 71% 29%
43	8P	529	17% 68% 31%
44	8R	361	26% 93% 6%
45	AA	449	6% 67% 30%
45	AC	449	60% 37%
45	AE	449	66% 32%
45	AG	449	68% 30%
45	AI	449	73% 25%
45	AK	449	67% 30%
45	AM	449	66% 32%
45	BA	449	24% 62% 34%
45	BC	449	6% 67% 29%
45	BE	449	65% 31%
45	BG	449	66% 30%
45	BI	449	67% 29%
45	BK	449	62% 34%
45	BM	449	8% 61% 35%
45	CA	449	67% 65% 33%
45	CC	449	8% 62% 36%
45	CE	449	68% 30%
45	CG	449	63% 34%
45	CI	449	69% 29%
45	CK	449	65% 33%

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Mol	Chain	Length	Quality of chain
45	CM	449	21% 69% 29%
45	DA	449	94% 74% 23%
45	DC	449	7% 59% 38%
45	DE	449	65% 32%
45	DG	449	5% 64% 33%
45	DI	449	64% 33%
45	DK	449	64% 33%
45	DM	449	22% 60% 37%
45	EA	449	98% 78% 20%
45	EC	449	17% 58% 40%
45	EE	449	5% 63% 35%
45	EG	449	5% 64% 34%
45	EI	449	6% 66% 32%
45	EK	449	5% 68% 29%
45	EM	449	26% 61% 36%
45	FA	449	18% 64% 31%
45	FC	449	67% 29%
45	FE	449	69% 28%
45	FG	449	6% 71% 27%
45	FI	449	68% 29%
45	FK	449	12% 62% 34%
45	FM	449	96% 73% 22%
45	GA	449	21% 61% 34%
45	GC	449	69% 27%
45	GE	449	62% 34%

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Mol	Chain	Length	Quality of chain
45	GG	449	6% 67% 29%
45	GI	449	68% 27%
45	GK	449	62% 35%
45	GM	449	96% 75% 20%
45	HA	449	19% 66% 30%
45	HC	449	65% 31%
45	HE	449	64% 32%
45	HG	449	5% 70% 26%
45	HI	449	67% 29%
45	HK	449	63% 33%
45	HM	449	89% 72% 24%
45	IA	449	10% 61% 35%
45	IC	449	62% 36%
45	IE	449	63% 33%
45	IG	449	5% 62% 35%
45	II	449	67% 30%
45	IK	449	63% 33%
45	IM	449	31% 59% 37%
45	JA	449	63% 33%
45	JC	449	66% 31%
45	JE	449	70% 27%
45	JG	449	63% 35%
45	JI	449	65% 32%
45	JK	449	62% 35%
45	JM	449	69% 64% 32%

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Mol	Chain	Length	Quality of chain
45	KA	449	63% 33%
45	KC	449	66% 30%
45	KE	449	65% 31%
45	KG	449	65% 32%
45	KI	449	69% 29%
45	KK	449	65% 33%
45	KM	449	17% 63% 33%
45	LA	449	68% 29%
45	LC	449	72% 26%
45	LE	449	71% 26%
45	LG	449	70% 28%
45	LI	449	65% 31%
45	LK	449	67% 31%
45	LM	449	66% 31%
45	MA	449	6% 65% 32%
45	MC	449	63% 33%
45	ME	449	68% 28%
45	MG	449	5% 66% 31%
45	MI	449	6% 70% 28%
45	MK	449	5% 66% 31%
45	MM	449	7% 69% 28%
45	NA	449	12% 56% 42%
45	NC	449	6% 64% 32%
45	NE	449	6% 67% 31%
45	NG	449	5% 61% 35%

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Mol	Chain	Length	Quality of chain
45	NI	449	7% 63% 35%
45	NK	449	5% 60% 36%
45	NM	449	44% 61% 36%
45	OA	449	16% 53% 43%
45	OC	449	59% 37%
45	OE	449	5% 62% 34%
45	OG	449	64% 33%
45	OI	449	6% 64% 33%
45	OK	449	60% 37%
45	OM	449	47% 66% 31%
45	PA	449	40% 56% 39%
45	PC	449	7% 61% 35%
45	PE	449	5% 58% 37%
45	PG	449	5% 58% 37%
45	PI	449	64% 32%
45	PK	449	6% 63% 32%
45	PM	449	59% 66% 29%
45	QA	449	72% 65% 31%
45	QC	449	10% 59% 37%
45	QE	449	60% 36%
45	QG	449	7% 53% 43%
45	QI	449	7% 60% 36%
45	QK	449	6% 61% 35%
45	QM	449	73% 65% 31%
45	RA	449	88% 72% 24%

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Mol	Chain	Length	Quality of chain
45	RC	449	12% 60% 36%
45	RE	449	9% 61% 35%
45	RG	449	9% 60% 36%
45	RI	449	7% 65% 31%
45	RK	449	8% 62% 34%
45	RM	449	67% 65% 31%
45	SA	449	95% 76% 20%
45	SC	449	11% 59% 37%
45	SE	449	7% 59% 37%
45	SG	449	6% 59% 37%
45	SI	449	8% 63% 33%
45	SK	449	6% 57% 39%
45	SM	449	50% 64% 32%
45	TA	449	96% 73% 22%
45	TC	449	17% 55% 41%
45	TE	449	9% 60% 36%
45	TG	449	10% 63% 33%
45	TI	449	10% 66% 30%
45	TK	449	9% 63% 33%
45	TM	449	36% 58% 37%
45	UA	449	94% 75% 21%
45	UC	449	16% 57% 39%
45	UE	449	8% 61% 35%
45	UG	449	10% 65% 31%
45	UI	449	12% 67% 29%

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Mol	Chain	Length	Quality of chain
45	UK	449	10% 63% 33%
45	UM	449	20% 57% 39%
45	VA	449	7% 54% 43%
45	VC	449	7% 65% 33%
45	VE	449	61% 36%
45	VG	449	6% 59% 39%
45	VI	449	5% 61% 35%
45	VK	449	7% 59% 39%
45	VM	449	96% 75% 21%
45	WA	449	5% 59% 37%
45	WC	449	5% 59% 39%
45	WE	449	61% 35%
45	WG	449	5% 61% 37%
45	WI	449	63% 33%
45	WK	449	6% 59% 39%
45	WM	449	70% 69% 27%
46	AB	443	32% 62% 35%
46	AD	443	62% 35%
46	AF	443	63% 34%
46	AH	443	63% 34%
46	AJ	443	68% 29%
46	AL	443	63% 34%
46	AN	443	63% 34%
46	BB	443	89% 70% 27%
46	BD	443	7% 60% 37%

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Mol	Chain	Length	Quality of chain
46	BF	443	5% 63% 34%
46	BH	443	6% 60% 36%
46	BJ	443	67% 30%
46	BL	443	5% 59% 38%
46	BN	443	6% 59% 38%
46	CB	443	13% 56% 42%
46	CD	443	5% 66% 31%
46	CF	443	6% 60% 37%
46	CH	443	60% 37%
46	CJ	443	65% 33%
46	CL	443	8% 60% 37%
46	CN	443	96% 70% 27%
46	DB	443	37% 61% 36%
46	DD	443	62% 35%
46	DF	443	69% 28%
46	DH	443	65% 33%
46	DJ	443	5% 61% 36%
46	DL	443	7% 55% 42%
46	DN	443	94% 75% 22%
46	EB	443	68% 60% 37%
46	ED	443	6% 63% 34%
46	EF	443	5% 58% 39%
46	EH	443	7% 60% 37%
46	EJ	443	5% 62% 35%
46	EL	443	9% 54% 43%

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Mol	Chain	Length	Quality of chain
46	EN	443	93% 67% 30%
46	FB	443	80% 64% 33%
46	FD	443	5% 60% 37%
46	FF	443	62% 35%
46	FH	443	63% 35%
46	FJ	443	66% 31%
46	FL	443	62% 35%
46	FN	443	77% 65% 33%
46	GB	443	90% 70% 28%
46	GD	443	6% 60% 37%
46	GF	443	5% 64% 33%
46	GH	443	65% 33%
46	GJ	443	68% 29%
46	GL	443	66% 31%
46	GN	443	41% 62% 35%
46	HB	443	83% 67% 30%
46	HD	443	62% 35%
46	HF	443	65% 32%
46	HH	443	64% 33%
46	HJ	443	64% 33%
46	HL	443	6% 67% 30%
46	HN	443	17% 59% 38%
46	IB	443	67% 64% 33%
46	ID	443	63% 34%
46	IF	443	72% 25%

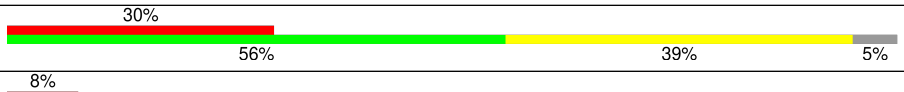
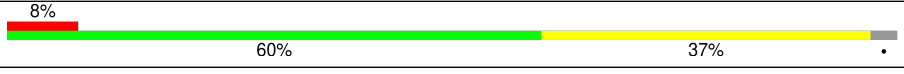
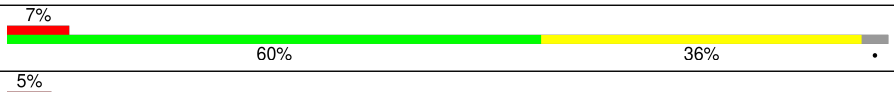
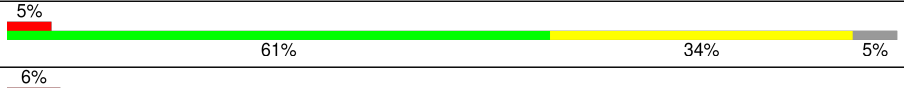
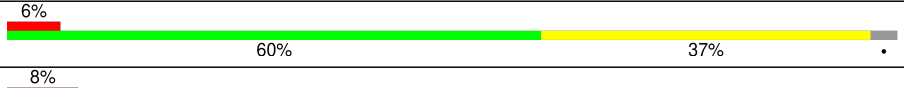
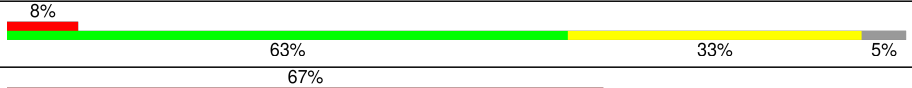
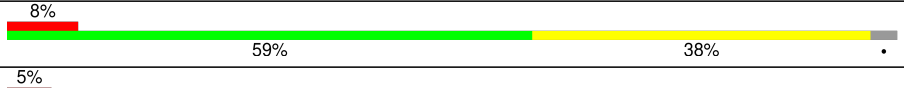
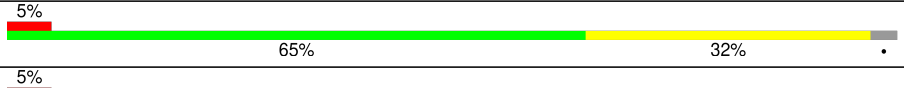
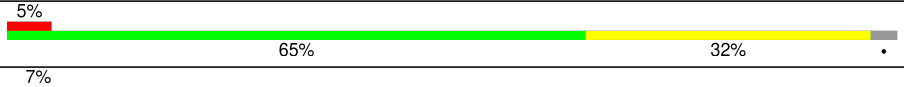
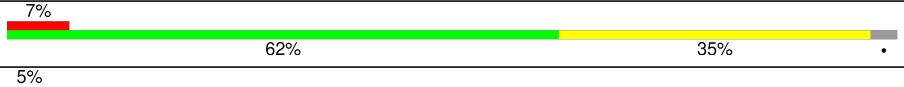
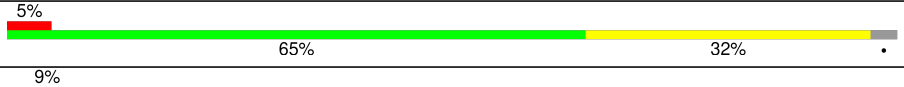
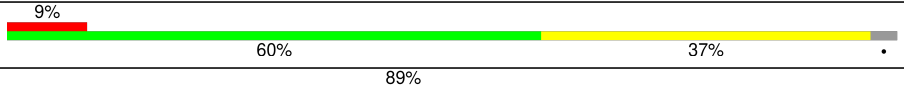
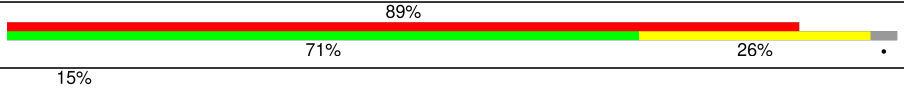
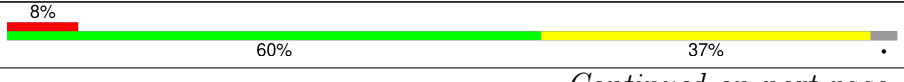
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Mol	Chain	Length	Quality of chain
46	IH	443	62% 35%
46	IJ	443	64% 33%
46	IL	443	61% 36%
46	IN	443	5% 58% 39%
46	JB	443	6% 63% 34%
46	JD	443	71% 26%
46	JF	443	68% 29%
46	JH	443	67% 30%
46	JJ	443	66% 31%
46	JL	443	64% 33%
46	JN	443	6% 60% 37%
46	KB	443	5% 64% 33%
46	KD	443	65% 32%
46	KF	443	65% 31%
46	KH	443	70% 27%
46	KJ	443	66% 31%
46	KL	443	65% 32%
46	KN	443	63% 34%
46	LB	443	64% 33%
46	LD	443	68% 29%
46	LF	443	70% 28%
46	LH	443	67% 30%
46	LJ	443	66% 31%
46	LL	443	65% 32%
46	LN	443	67% 30%

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Mol	Chain	Length	Quality of chain
46	MB	443	
46	MD	443	
46	MF	443	
46	MH	443	
46	MJ	443	
46	ML	443	
46	MN	443	
46	NB	443	
46	ND	443	
46	NF	443	
46	NH	443	
46	NJ	443	
46	NL	443	
46	NN	443	
46	OB	443	
46	OD	443	
46	OF	443	
46	OH	443	
46	OJ	443	
46	OL	443	
46	ON	443	
46	PB	443	
46	PD	443	
46	PF	443	
46	PH	443	

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Mol	Chain	Length	Quality of chain
46	PJ	443	7% 61% 36%
46	PL	443	7% 59% 38%
46	PN	443	12% 54% 42%
46	QB	443	21% 54% 43%
46	QD	443	9% 63% 33%
46	QF	443	7% 62% 35%
46	QH	443	7% 57% 40%
46	QJ	443	7% 63% 34%
46	QL	443	13% 54% 43%
46	QN	443	97% 76% 21%
46	RB	443	29% 55% 42%
46	RD	443	9% 58% 39%
46	RF	443	8% 58% 39%
46	RH	443	7% 58% 40%
46	RJ	443	8% 59% 38%
46	RL	443	14% 54% 43%
46	RN	443	97% 77% 20%
46	SB	443	41% 56% 41%
46	SD	443	7% 57% 40%
46	SF	443	7% 58% 39%
46	SH	443	8% 60% 37%
46	SJ	443	8% 60% 37%
46	SL	443	11% 55% 42%
46	SN	443	97% 73% 24%
46	TB	443	62% 58% 39%

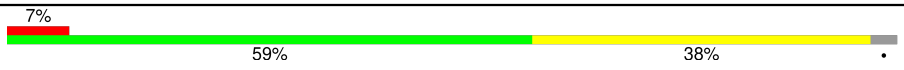
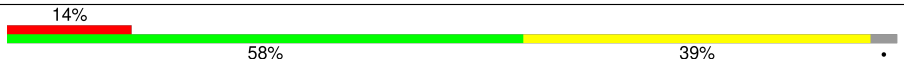
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Mol	Chain	Length	Quality of chain
46	TD	443	10% 62% 35%
46	TF	443	8% 55% 42%
46	TH	443	12% 58% 39%
46	TJ	443	10% 58% 39%
46	TL	443	12% 53% 44%
46	TN	443	94% 72% 26%
46	UB	443	54% 56% 41%
46	UD	443	11% 61% 36%
46	UF	443	9% 57% 40%
46	UH	443	12% 58% 39%
46	UJ	443	10% 55% 42%
46	UL	443	12% 49% 48%
46	UN	443	76% 58% 39%
46	VB	443	37% 54% 43%
46	VD	443	5% 60% 37%
46	VF	443	60% 37%
46	VH	443	5% 56% 41%
46	VJ	443	5% 59% 38%
46	VL	443	5% 55% 42%
46	VN	443	40% 53% 44%
46	WB	443	31% 59% 38%
46	WD	443	5% 58% 39%
46	WF	443	5% 58% 39%
46	WH	443	6% 60% 37%
46	WJ	443	5% 60% 37%

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Mol	Chain	Length	Quality of chain
46	WL	443	
46	WN	443	

2 Entry composition (i)

There are 49 unique types of molecules in this entry. The entry contains 1325153 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 RIB27A.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	0A	152	Total	C	N	O	S	0	0
			1229	776	224	228	1		
1	1A	152	Total	C	N	O	S	0	0
			1229	776	224	228	1		
1	2A	152	Total	C	N	O	S	0	0
			1229	776	224	228	1		
1	3A	152	Total	C	N	O	S	0	0
			1229	776	224	228	1		

- Molecule 2 is a protein called RIB38.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	0B	321	Total	C	N	O	S	0	0
			2615	1634	472	502	7		

There are 5 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
0B	10	THR	SER	conflict	UNP Q23JL9
0B	11	ALA	THR	conflict	UNP Q23JL9
0B	12	LEU	ALA	conflict	UNP Q23JL9
0B	13	MET	LEU	conflict	UNP Q23JL9
0B	36	SER	THR	conflict	UNP Q23JL9

- Molecule 3 is a protein called CFAM166B.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	0C	95	Total	C	N	O	S	0	0
			747	471	131	143	2		
3	1C	95	Total	C	N	O	S	0	0
			747	471	131	143	2		

- Molecule 4 is a protein called CFAM166A.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	0D	202	Total	C	N	O	S	1	0
			1619	1018	292	307	2		
4	1D	202	Total	C	N	O	S	1	0
			1619	1018	292	307	2		
4	2D	202	Total	C	N	O	S	1	0
			1619	1018	292	307	2		

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
0D	86	ALA	THR	conflict	UNP Q238X3
0D	87	GLU	GLN	conflict	UNP Q238X3
1D	86	ALA	THR	conflict	UNP Q238X3
1D	87	GLU	GLN	conflict	UNP Q238X3
2D	86	ALA	THR	conflict	UNP Q238X3
2D	87	GLU	GLN	conflict	UNP Q238X3

- Molecule 5 is a protein called RIB22.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	0E	189	Total	C	N	O	S	0	0
			1557	978	280	294	5		
5	1E	189	Total	C	N	O	S	0	0
			1557	978	280	294	5		
5	2E	189	Total	C	N	O	S	0	0
			1557	978	280	294	5		
5	3E	189	Total	C	N	O	S	0	0
			1557	978	280	294	5		

- Molecule 6 is a protein called CFAM166C.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	0F	206	Total	C	N	O	S	0	0
			1665	1048	300	314	3		

- Molecule 7 is a protein called CFAP107.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	0G	168	Total	C	N	O	S	0	0
			1378	871	237	265	5		
7	1G	135	Total	C	N	O	S	0	0
			1109	702	190	214	3		

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
0G	127	ALA	LEU	conflict	UNP Q237T1
0G	128	LEU	SER	conflict	UNP Q237T1
0G	129	SER	ALA	conflict	UNP Q237T1
0G	130	ALA	SER	conflict	UNP Q237T1
0G	131	SER	ALA	conflict	UNP Q237T1
0G	140	PHE	TYR	conflict	UNP Q237T1
1G	127	ALA	LEU	conflict	UNP Q237T1
1G	128	LEU	SER	conflict	UNP Q237T1
1G	129	SER	ALA	conflict	UNP Q237T1
1G	130	ALA	SER	conflict	UNP Q237T1
1G	131	SER	ALA	conflict	UNP Q237T1
1G	140	PHE	TYR	conflict	UNP Q237T1

- Molecule 8 is a protein called CFAP127.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	0H	120	Total	C	N	O	S	0	0
			1046	654	189	198	5		
8	1H	425	Total	C	N	O	S	0	0
			3706	2281	691	720	14		

- Molecule 9 is a protein called CFAP161A.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	0N	280	Total	C	N	O	S	0	0
			2305	1455	396	441	13		
9	1N	463	Total	C	N	O	S	0	0
			3805	2414	653	723	15		
9	2N	280	Total	C	N	O	S	0	0
			2305	1455	396	441	13		

- Molecule 10 is a protein called CFAP20.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	0Q	186	Total	C	N	O	S	0	0
			1548	997	268	276	7		
10	1Q	186	Total	C	N	O	S	0	0
			1548	997	268	276	7		
10	2Q	186	Total	C	N	O	S	0	0
			1548	997	268	276	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
10	3Q	186	Total	C	N	O	S	0	0
			1548	997	268	276	7		
10	4Q	186	Total	C	N	O	S	0	0
			1548	997	268	276	7		
10	5Q	186	Total	C	N	O	S	0	0
			1548	997	268	276	7		
10	6Q	186	Total	C	N	O	S	0	0
			1548	997	268	276	7		

- Molecule 11 is a protein called Parkin co-regulated protein PACRGA.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	0S	288	Total	C	N	O	S	0	0
			2310	1485	397	422	6		
11	1S	288	Total	C	N	O	S	0	0
			2310	1485	397	422	6		
11	2S	288	Total	C	N	O	S	0	0
			2310	1485	397	422	6		
11	3S	288	Total	C	N	O	S	0	0
			2310	1485	397	422	6		

- Molecule 12 is a protein called IJ34.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	0T	261	Total	C	N	O	S	0	0
			2124	1351	373	391	9		
12	1T	285	Total	C	N	O	S	0	0
			2321	1471	411	430	9		
12	2T	285	Total	C	N	O	S	0	0
			2321	1471	411	430	9		
12	3T	285	Total	C	N	O	S	0	0
			2321	1471	411	430	9		

- Molecule 13 is a protein called CFAP52A.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	0U	607	Total	C	N	O	S	0	0
			4774	3025	819	906	24		
13	1U	607	Total	C	N	O	S	0	0
			4774	3025	819	906	24		
13	2U	607	Total	C	N	O	S	0	0
			4774	3025	819	906	24		

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Mol	Chain	Residues	Atoms					AltConf	Trace
13	3U	607	Total	C	N	O	S	0	0
			4774	3025	819	906	24		

- Molecule 14 is a protein called DNA polymerase delta C4-type zinc-finger protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	0V	212	Total	C	N	O	S	0	0
			1750	1095	317	332	6		
14	1V	263	Total	C	N	O	S	0	0
			2168	1359	388	412	9		
14	2V	263	Total	C	N	O	S	0	0
			2168	1359	388	412	9		
14	3V	263	Total	C	N	O	S	0	0
			2168	1359	388	412	9		

- Molecule 15 is a protein called RIB43A protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	0X	110	Total	C	N	O	S	0	0
			935	570	175	185	5		
15	1X	141	Total	C	N	O	S	0	0
			1202	732	227	237	6		
15	2X	141	Total	C	N	O	S	0	0
			1202	732	227	237	6		
15	3X	141	Total	C	N	O	S	0	0
			1202	732	227	237	6		
15	4X	141	Total	C	N	O	S	0	0
			1202	732	227	237	6		

There are 10 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
0X	13	SER	PRO	conflict	UNP A4VDZ5
0X	14	ASP	HIS	conflict	UNP A4VDZ5
1X	13	SER	PRO	conflict	UNP A4VDZ5
1X	14	ASP	HIS	conflict	UNP A4VDZ5
2X	13	SER	PRO	conflict	UNP A4VDZ5
2X	14	ASP	HIS	conflict	UNP A4VDZ5
3X	13	SER	PRO	conflict	UNP A4VDZ5
3X	14	ASP	HIS	conflict	UNP A4VDZ5
4X	13	SER	PRO	conflict	UNP A4VDZ5
4X	14	ASP	HIS	conflict	UNP A4VDZ5

- Molecule 16 is a protein called RIB57.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	1B	498	Total	C	N	O	S	0	0
			4066	2598	692	768	8		
16	2B	295	Total	C	N	O	S	0	0
			2439	1553	416	464	6		
16	3B	295	Total	C	N	O	S	0	0
			2437	1552	416	463	6		

- Molecule 17 is a protein called CFAP182A.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	1F	136	Total	C	N	O	S	0	0
			1093	696	184	208	5		

- Molecule 18 is a protein called CFAP143.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	1I	188	Total	C	N	O	S	0	0
			1546	951	285	306	4		

- Molecule 19 is a protein called CFAP21A.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	1J	370	Total	C	N	O	S	0	0
			3025	1901	533	580	11		

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
1J	322	ASP	ASN	conflict	UNP I7MLS4

- Molecule 20 is a protein called CFAP53.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	1K	277	Total	C	N	O	S	0	0
			2425	1500	452	466	7		
20	2K	288	Total	C	N	O	S	0	0
			2506	1547	460	492	7		

- Molecule 21 is a protein called CFAP115.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	1L	820	Total	C	N	O	S	0	0
			6842	4358	1186	1280	18		
21	2L	616	Total	C	N	O	S	0	0
			5151	3286	896	957	12		
21	3L	200	Total	C	N	O	S	0	0
			1660	1053	284	317	6		

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
1L	863	GLU	GLY	conflict	UNP Q23KF9
1L	864	ALA	GLU	conflict	UNP Q23KF9
2L	863	GLU	GLY	conflict	UNP Q23KF9
2L	864	ALA	GLU	conflict	UNP Q23KF9
3L	863	GLU	GLY	conflict	UNP Q23KF9
3L	864	ALA	GLU	conflict	UNP Q23KF9

- Molecule 22 is a protein called Nucleoside diphosphate kinase.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	1M	369	Total	C	N	O	S	0	0
			2978	1910	501	552	15		
22	2M	369	Total	C	N	O	S	0	0
			2978	1910	501	552	15		

- Molecule 23 is a protein called Cilia- and flagella-associated protein 45.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	1O	241	Total	C	N	O	S	0	0
			2032	1266	359	395	12		
23	2O	370	Total	C	N	O	S	0	0
			3173	1948	595	617	13		
23	3O	279	Total	C	N	O	S	0	0
			2397	1471	456	466	4		

- Molecule 24 is a protein called CFAP210.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	1P	355	Total	C	N	O	S	0	0
			3060	1889	575	588	8		
24	2P	190	Total	C	N	O	S	0	0
			1633	1005	309	313	6		

- Molecule 25 is a protein called RIB72B.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	1R	508	Total	C	N	O	S	0	0
			4244	2744	711	777	12		
25	2R	508	Total	C	N	O	S	0	0
			4244	2744	711	777	12		
25	3R	508	Total	C	N	O	S	0	0
			4244	2744	711	777	12		

- Molecule 26 is a protein called Protofilament ribbon protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	1W	224	Total	C	N	O	S	0	0
			1924	1167	380	368	9		
26	2W	116	Total	C	N	O	S	0	0
			990	611	189	184	6		

- Molecule 27 is a protein called RIB35.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	2C	300	Total	C	N	O	S	0	0
			2467	1581	417	464	5		
27	3C	300	Total	C	N	O	S	0	0
			2467	1581	417	464	5		
27	4C	300	Total	C	N	O	S	0	0
			2467	1581	417	464	5		

- Molecule 28 is a protein called CFAP182B.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	2F	87	Total	C	N	O	S	0	0
			746	469	136	137	4		

- Molecule 29 is a protein called Flagellar FliJ protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
29	2G	99	Total	C	N	O	S	0	0
			848	536	153	155	4		

- Molecule 30 is a protein called RIB27B.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	2H	61	Total	C	N	O	S	0	0
			501	313	92	94	2		
30	3H	61	Total	C	N	O	S	0	0
			501	313	92	94	2		
30	4H	61	Total	C	N	O	S	0	0
			501	313	92	94	2		

- Molecule 31 is a protein called STPG2.

Mol	Chain	Residues	Atoms					AltConf	Trace
31	2I	142	Total	C	N	O	S	0	0
			1150	736	204	209	1		
31	3I	87	Total	C	N	O	S	0	0
			712	451	130	127	4		

- Molecule 32 is a protein called RIB26.

Mol	Chain	Residues	Atoms					AltConf	Trace
32	3D	237	Total	C	N	O	S	0	0
			1835	1174	310	340	11		

- Molecule 33 is a protein called CFAP129.

Mol	Chain	Residues	Atoms					AltConf	Trace
33	4F	200	Total	C	N	O	S	0	0
			1618	1022	286	308	2		

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
4F	70	VAL	ASP	conflict	UNP I7M9I4

- Molecule 34 is a protein called Flagellar microtubule protofilament ribbon protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
34	4R	609	Total	C	N	O	S	0	0
			5070	3267	847	932	24		
34	5R	609	Total	C	N	O	S	0	0
			5070	3267	847	932	24		
34	6R	609	Total	C	N	O	S	0	0
			5070	3267	847	932	24		
34	7R	609	Total	C	N	O	S	0	0
			5070	3267	847	932	24		

- Molecule 35 is a protein called Parkin co-regulated protein PACRGB.

Mol	Chain	Residues	Atoms					AltConf	Trace
35	4S	188	Total	C	N	O	S	0	0
			1537	999	251	279	8		
35	5S	188	Total	C	N	O	S	0	0
			1537	999	251	279	8		

- Molecule 36 is a protein called OJ2.

Mol	Chain	Residues	Atoms					AltConf	Trace
36	5A	157	Total	C	N	O	S	0	0
			1261	795	234	229	3		
36	5B	157	Total	C	N	O	S	0	0
			1261	795	234	229	3		
36	5C	157	Total	C	N	O	S	0	0
			1261	795	234	229	3		
36	5D	114	Total	C	N	O	S	0	0
			908	571	165	169	3		

- Molecule 37 is a protein called CFAP77A.

Mol	Chain	Residues	Atoms					AltConf	Trace
37	5E	188	Total	C	N	O	S	0	0
			1566	992	281	288	5		
37	5F	210	Total	C	N	O	S	0	0
			1750	1107	316	322	5		
37	5G	210	Total	C	N	O	S	0	0
			1750	1107	316	322	5		
37	5H	146	Total	C	N	O	S	0	0
			1210	764	217	225	4		

- Molecule 38 is a protein called OJ3.

Mol	Chain	Residues	Atoms				AltConf	Trace
38	5I	103	Total	C	N	O	0	0
			515	309	103	103		
38	5J	109	Total	C	N	O	0	0
			545	327	109	109		
38	5K	80	Total	C	N	O	0	0
			400	240	80	80		

- Molecule 39 is a protein called SB1.

Mol	Chain	Residues	Atoms					AltConf	Trace
39	6F	132	Total	C	N	O	S	0	0
			1140	718	197	221	4		

- Molecule 40 is a protein called STPG1A.

Mol	Chain	Residues	Atoms					AltConf	Trace
40	6G	216	Total	C	N	O	S	0	0
			1769	1128	303	333	5		

- Molecule 41 is a protein called Nebulin.

Mol	Chain	Residues	Atoms					AltConf	Trace
41	6H	165	Total	C	N	O	S	0	0
			1362	857	234	266	5		

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
6H	186	HIS	GLN	conflict	UNP Q231B6
6H	198	HIS	MET	conflict	UNP Q231B6

- Molecule 42 is a protein called B5B6_fMIP.

Mol	Chain	Residues	Atoms				AltConf	Trace
42	8L	385	Total	C	N	O	0	0
			1925	1155	385	385		
42	8N	358	Total	C	N	O	0	0
			1790	1074	358	358		

- Molecule 43 is a protein called CFAP112A.

Mol	Chain	Residues	Atoms				AltConf	Trace
43	8P	363	Total	C	N	O	0	0
			1815	1089	363	363		

- Molecule 44 is a protein called B2B3_fMIP.

Mol	Chain	Residues	Atoms				AltConf	Trace
44	8R	361	Total	C	N	O	0	0
			2020	1269	361	390		

- Molecule 45 is a protein called Tubulin alpha chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
45	AA	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	AC	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	AE	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	AG	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	AI	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	AK	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	AM	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	BA	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	BC	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	BE	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	BG	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	BI	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	BK	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	BM	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	CA	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	CC	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	CG	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	CI	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	CK	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	CM	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	DA	433	Total	C	N	O	S	0	0
			3372	2133	572	645	22		
45	DE	433	Total	C	N	O	S	0	0
			3372	2133	572	645	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
45	DG	436	Total	C	N	O	S	0	0
			3389	2143	576	648	22		
45	DI	433	Total	C	N	O	S	0	0
			3372	2133	572	645	22		
45	DK	436	Total	C	N	O	S	0	0
			3389	2143	576	648	22		
45	DM	433	Total	C	N	O	S	0	0
			3372	2133	572	645	22		
45	EA	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	EC	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	EE	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	EG	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	EI	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	EK	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	EM	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	FA	429	Total	C	N	O	S	0	0
			3342	2118	568	634	22		
45	FC	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	FE	434	Total	C	N	O	S	0	0
			3376	2135	573	646	22		
45	FG	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	FI	433	Total	C	N	O	S	0	0
			3372	2133	572	645	22		
45	FK	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	FM	429	Total	C	N	O	S	0	0
			3342	2118	568	634	22		
45	GA	429	Total	C	N	O	S	0	0
			3342	2118	568	634	22		
45	GC	431	Total	C	N	O	S	0	0
			3358	2126	570	640	22		
45	GE	431	Total	C	N	O	S	0	0
			3358	2126	570	640	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
45	GG	431	Total	C	N	O	S	0	0
			3358	2126	570	640	22		
45	GI	431	Total	C	N	O	S	0	0
			3358	2126	570	640	22		
45	GK	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	GM	429	Total	C	N	O	S	0	0
			3342	2118	568	634	22		
45	HA	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	HC	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	HE	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	HG	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	HI	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	HK	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	HM	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	IA	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	IC	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	IE	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	IG	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	II	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	IK	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	IM	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	JA	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	JC	434	Total	C	N	O	S	0	0
			3376	2135	573	646	22		
45	JE	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
45	JG	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	JI	439	Total	C	N	O	S	0	0
			3404	2151	579	652	22		
45	JK	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	JM	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	KA	434	Total	C	N	O	S	0	0
			3376	2135	573	646	22		
45	KC	433	Total	C	N	O	S	0	0
			3372	2133	572	645	22		
45	KE	435	Total	C	N	O	S	0	0
			3385	2141	575	647	22		
45	KG	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	KI	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	KK	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	KM	434	Total	C	N	O	S	0	0
			3376	2135	573	646	22		
45	LA	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	LC	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	LE	438	Total	C	N	O	S	0	0
			3400	2149	578	651	22		
45	LG	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	LI	434	Total	C	N	O	S	0	0
			3381	2139	574	646	22		
45	LK	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	LM	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	MA	436	Total	C	N	O	S	0	0
			3392	2145	576	649	22		
45	MC	433	Total	C	N	O	S	0	0
			3368	2131	572	643	22		
45	ME	433	Total	C	N	O	S	0	0
			3372	2133	572	645	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
45	MG	437	Total	C	N	O	S	0	0
			3400	2151	577	650	22		
45	MI	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	MK	436	Total	C	N	O	S	0	0
			3384	2139	575	648	22		
45	MM	436	Total	C	N	O	S	0	0
			3392	2145	576	649	22		
45	NA	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	NC	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	NE	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	NG	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	NI	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	NK	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	NM	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	OA	433	Total	C	N	O	S	0	0
			3368	2131	572	643	22		
45	OC	433	Total	C	N	O	S	0	0
			3368	2131	572	643	22		
45	OE	433	Total	C	N	O	S	0	0
			3368	2131	572	643	22		
45	OG	433	Total	C	N	O	S	0	0
			3368	2131	572	643	22		
45	OI	433	Total	C	N	O	S	0	0
			3368	2131	572	643	22		
45	OK	433	Total	C	N	O	S	0	0
			3368	2131	572	643	22		
45	OM	433	Total	C	N	O	S	0	0
			3368	2131	572	643	22		
45	PA	429	Total	C	N	O	S	0	0
			3342	2118	568	634	22		
45	PC	429	Total	C	N	O	S	0	0
			3342	2118	568	634	22		
45	PE	429	Total	C	N	O	S	0	0
			3342	2118	568	634	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
45	PG	429	Total	C	N	O	S	0	0
			3342	2118	568	634	22		
45	PI	429	Total	C	N	O	S	0	0
			3342	2118	568	634	22		
45	PK	429	Total	C	N	O	S	0	0
			3342	2118	568	634	22		
45	PM	429	Total	C	N	O	S	0	0
			3342	2118	568	634	22		
45	QA	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	QC	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	QE	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	QG	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	QI	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	QK	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	QM	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	RA	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	RC	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	RE	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	RG	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	RI	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	RK	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	RM	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	SA	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
45	SC	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
45	SE	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
45	SG	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
45	SI	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
45	SK	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
45	SM	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
45	TA	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
45	TC	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
45	TE	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
45	TG	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
45	TI	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
45	TK	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
45	TM	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
45	UA	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	UC	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	UE	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	UG	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	UI	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	UK	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	UM	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	VA	433	Total	C	N	O	S	0	0
			3372	2133	572	645	22		
45	VC	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	VE	433	Total	C	N	O	S	0	0
			3372	2133	572	645	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
45	VG	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	VI	433	Total	C	N	O	S	0	0
			3372	2133	572	645	22		
45	VK	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	VM	433	Total	C	N	O	S	0	0
			3372	2133	572	645	22		
45	WA	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	WC	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	WE	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	WG	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	WI	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	WK	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	WM	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	CE	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	DC	436	Total	C	N	O	S	0	0
			3389	2143	576	648	22		

- Molecule 46 is a protein called Tubulin beta chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
46	AB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	AD	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	AF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	AH	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	AJ	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	AL	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		

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Mol	Chain	Residues	Atoms					AltConf	Trace
46	AN	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	BB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	BD	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	BF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	BH	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	BJ	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	BL	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	BN	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	CB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	CD	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	CF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	CH	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	CJ	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	CL	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	CN	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	DB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	DD	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	DF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	DH	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	DJ	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	DL	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		

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Mol	Chain	Residues	Atoms					AltConf	Trace
46	DN	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	EB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	ED	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	EF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	EH	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	EJ	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	EL	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	EN	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	FB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	FD	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	FF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	FH	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	FJ	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	FL	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	FN	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	GB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	GD	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	GF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	GH	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	GJ	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	GL	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		

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Mol	Chain	Residues	Atoms					AltConf	Trace
46	GN	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	HB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	HD	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	HF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	HH	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	HJ	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	HL	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	HN	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	IB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	ID	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	IF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	IH	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	IJ	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	IL	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	IN	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	JB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	JD	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	JF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	JH	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	JJ	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	JL	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		

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Mol	Chain	Residues	Atoms					AltConf	Trace
46	JN	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	KB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	KD	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	KF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	KH	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	KJ	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	KL	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	KN	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	LB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	LD	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	LF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	LH	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	LJ	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	LL	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	LN	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	MB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	MD	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	MF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	MH	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	MJ	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	ML	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		

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Mol	Chain	Residues	Atoms					AltConf	Trace
46	MN	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	NB	423	Total	C	N	O	S	0	0
			3304	2079	562	635	28		
46	ND	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	NF	423	Total	C	N	O	S	0	0
			3304	2079	562	635	28		
46	NH	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	NJ	423	Total	C	N	O	S	0	0
			3304	2079	562	635	28		
46	NL	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	NN	423	Total	C	N	O	S	0	0
			3304	2079	562	635	28		
46	OB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	OD	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	OF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	OH	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	OJ	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	OL	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	ON	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	PB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	PD	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	PF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	PH	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	PJ	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	PL	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		

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Mol	Chain	Residues	Atoms					AltConf	Trace
46	PN	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	QB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	QD	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	QF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	QH	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	QJ	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	QL	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	QN	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	RB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	RD	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	RF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	RH	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	RJ	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	RL	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	RN	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	SB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	SD	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	SF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	SH	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	SJ	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	SL	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		

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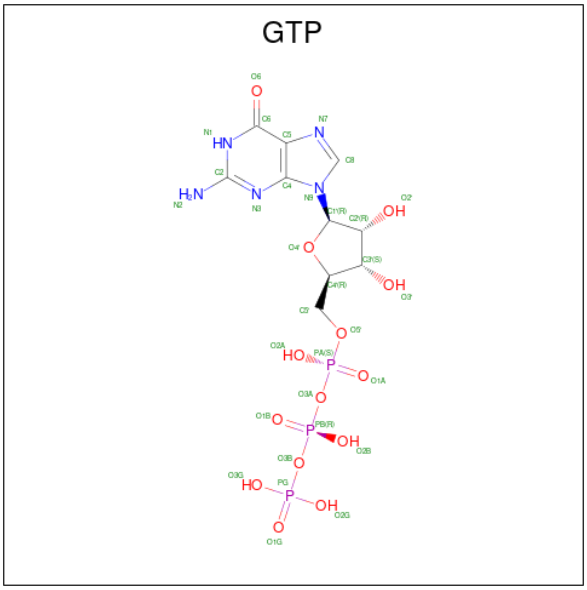
Mol	Chain	Residues	Atoms					AltConf	Trace
46	SN	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	TB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	TD	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	TF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	TH	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	TJ	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	TL	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	TN	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	UB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	UD	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	UF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	UH	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	UJ	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	UL	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	UN	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	VB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	VD	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	VF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	VH	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	VJ	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	VL	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		

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Mol	Chain	Residues	Atoms					AltConf	Trace
46	VN	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	WB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	WD	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	WF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	WH	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	WJ	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	WL	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	WN	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		

- Molecule 47 is GUANOSINE-5'-TRIPHOSPHATE (CCD ID: GTP) (formula: $C_{10}H_{16}N_5O_{14}P_3$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					AltConf
47	AA	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	AC	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	AE	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
47	AG	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	AI	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	AK	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	AM	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	BA	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	BC	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	BE	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	BG	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	BI	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	BK	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	BM	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	CA	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	CC	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	CG	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	CI	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	CK	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	CM	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	DA	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	DE	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	DG	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	DI	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
47	DK	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	DM	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	EA	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	EC	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	EE	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	EG	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	EI	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	EK	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	EM	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	FA	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	FC	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	FE	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	FG	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	FI	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	FK	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	FM	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	GA	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	GC	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	GE	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	GG	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	GI	1	Total	C	N	O	P	0
			32	10	5	14	3	

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

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Mol	Chain	Residues	Atoms					AltConf
47	JK	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	JM	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	KA	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	KC	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	KE	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	KG	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	KI	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	KK	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	KM	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	LA	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	LC	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	LE	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	LG	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	LI	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	LK	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	LM	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	MA	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	MC	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	ME	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	MG	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	MI	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
47	MK	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	MM	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	NA	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	NC	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	NE	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	NG	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	NI	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	NK	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	NM	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	OA	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	OC	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	OF	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	OG	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	OI	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	OK	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	OM	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	PA	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	PD	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	PE	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	PG	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	PI	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
47	PK	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	PM	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	QA	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	QC	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	QE	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	QG	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	QI	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	QK	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	QM	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	RA	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	RC	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	RE	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	RG	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	RI	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	RK	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	RM	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	SA	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	SC	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	SE	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	SG	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	SI	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
47	SK	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	SM	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	TA	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	TC	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	TE	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	TG	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	TI	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	TK	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	TM	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	UA	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	UC	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	UE	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	UG	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	UI	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	UK	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	UM	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	VA	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	VC	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	VE	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	VG	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	VI	1	Total	C	N	O	P	0
			32	10	5	14	3	

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Mol	Chain	Residues	Atoms					AltConf
47	VK	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	VM	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	WA	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	WC	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	WE	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	WG	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	WI	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	WK	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	WM	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	CE	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	DC	1	Total	C	N	O	P	0
			32	10	5	14	3	

- Molecule 48 is MAGNESIUM ION (CCD ID: MG) (formula: Mg) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		AltConf
48	AA	1	Total	Mg	0
			1	1	
48	AC	1	Total	Mg	0
			1	1	
48	AE	1	Total	Mg	0
			1	1	
48	AG	1	Total	Mg	0
			1	1	
48	AI	1	Total	Mg	0
			1	1	
48	AK	1	Total	Mg	0
			1	1	
48	AM	1	Total	Mg	0
			1	1	
48	BA	1	Total	Mg	0
			1	1	

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Mol	Chain	Residues	Atoms	AltConf
48	BC	1	Total Mg 1 1	0
48	BE	1	Total Mg 1 1	0
48	BG	1	Total Mg 1 1	0
48	BI	1	Total Mg 1 1	0
48	BK	1	Total Mg 1 1	0
48	BM	1	Total Mg 1 1	0
48	CA	1	Total Mg 1 1	0
48	CC	1	Total Mg 1 1	0
48	CG	1	Total Mg 1 1	0
48	CI	1	Total Mg 1 1	0
48	CK	1	Total Mg 1 1	0
48	CM	1	Total Mg 1 1	0
48	DA	1	Total Mg 1 1	0
48	DE	1	Total Mg 1 1	0
48	DG	1	Total Mg 1 1	0
48	DI	1	Total Mg 1 1	0
48	DK	1	Total Mg 1 1	0
48	DM	1	Total Mg 1 1	0
48	EA	1	Total Mg 1 1	0
48	EC	1	Total Mg 1 1	0
48	EE	1	Total Mg 1 1	0

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Mol	Chain	Residues	Atoms	AltConf
48	EG	1	Total Mg 1 1	0
48	EI	1	Total Mg 1 1	0
48	EK	1	Total Mg 1 1	0
48	EM	1	Total Mg 1 1	0
48	FA	1	Total Mg 1 1	0
48	FC	1	Total Mg 1 1	0
48	FE	1	Total Mg 1 1	0
48	FG	1	Total Mg 1 1	0
48	FI	1	Total Mg 1 1	0
48	FL	1	Total Mg 1 1	0
48	FM	1	Total Mg 1 1	0
48	GB	1	Total Mg 1 1	0
48	GC	1	Total Mg 1 1	0
48	GE	1	Total Mg 1 1	0
48	GG	1	Total Mg 1 1	0
48	GI	1	Total Mg 1 1	0
48	GL	1	Total Mg 1 1	0
48	GN	1	Total Mg 1 1	0
48	HA	1	Total Mg 1 1	0
48	HC	1	Total Mg 1 1	0
48	HE	1	Total Mg 1 1	0

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Mol	Chain	Residues	Atoms	AltConf
48	HG	1	Total Mg 1 1	0
48	HI	1	Total Mg 1 1	0
48	HK	1	Total Mg 1 1	0
48	HM	1	Total Mg 1 1	0
48	IA	1	Total Mg 1 1	0
48	IC	1	Total Mg 1 1	0
48	IE	1	Total Mg 1 1	0
48	IG	1	Total Mg 1 1	0
48	II	1	Total Mg 1 1	0
48	IK	1	Total Mg 1 1	0
48	IM	1	Total Mg 1 1	0
48	JA	1	Total Mg 1 1	0
48	JC	1	Total Mg 1 1	0
48	JE	1	Total Mg 1 1	0
48	JG	1	Total Mg 1 1	0
48	JI	1	Total Mg 1 1	0
48	JK	1	Total Mg 1 1	0
48	JM	1	Total Mg 1 1	0
48	KA	1	Total Mg 1 1	0
48	KC	1	Total Mg 1 1	0
48	KE	1	Total Mg 1 1	0

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Mol	Chain	Residues	Atoms	AltConf
48	KG	1	Total Mg 1 1	0
48	KI	1	Total Mg 1 1	0
48	KK	1	Total Mg 1 1	0
48	KM	1	Total Mg 1 1	0
48	LA	1	Total Mg 1 1	0
48	LC	1	Total Mg 1 1	0
48	LE	1	Total Mg 1 1	0
48	LG	1	Total Mg 1 1	0
48	LI	1	Total Mg 1 1	0
48	LK	1	Total Mg 1 1	0
48	LM	1	Total Mg 1 1	0
48	MA	1	Total Mg 1 1	0
48	MC	1	Total Mg 1 1	0
48	ME	1	Total Mg 1 1	0
48	MG	1	Total Mg 1 1	0
48	MI	1	Total Mg 1 1	0
48	MK	1	Total Mg 1 1	0
48	MM	1	Total Mg 1 1	0
48	NA	1	Total Mg 1 1	0
48	ND	1	Total Mg 1 1	0
48	NE	1	Total Mg 1 1	0

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Mol	Chain	Residues	Atoms	AltConf
48	NG	1	Total Mg 1 1	0
48	NI	1	Total Mg 1 1	0
48	NK	1	Total Mg 1 1	0
48	NM	1	Total Mg 1 1	0
48	OA	1	Total Mg 1 1	0
48	OC	1	Total Mg 1 1	0
48	OE	1	Total Mg 1 1	0
48	OG	1	Total Mg 1 1	0
48	OI	1	Total Mg 1 1	0
48	OK	1	Total Mg 1 1	0
48	OM	1	Total Mg 1 1	0
48	PA	1	Total Mg 1 1	0
48	PC	1	Total Mg 1 1	0
48	PE	1	Total Mg 1 1	0
48	PG	1	Total Mg 1 1	0
48	PI	1	Total Mg 1 1	0
48	PK	1	Total Mg 1 1	0
48	PN	1	Total Mg 1 1	0
48	QA	1	Total Mg 1 1	0
48	QC	1	Total Mg 1 1	0
48	QE	1	Total Mg 1 1	0

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Mol	Chain	Residues	Atoms	AltConf
48	QG	1	Total Mg 1 1	0
48	QI	1	Total Mg 1 1	0
48	QK	1	Total Mg 1 1	0
48	QM	1	Total Mg 1 1	0
48	RA	1	Total Mg 1 1	0
48	RC	1	Total Mg 1 1	0
48	RD	1	Total Mg 1 1	0
48	RG	1	Total Mg 1 1	0
48	RI	1	Total Mg 1 1	0
48	RK	1	Total Mg 1 1	0
48	RM	1	Total Mg 1 1	0
48	SA	1	Total Mg 1 1	0
48	SC	1	Total Mg 1 1	0
48	SE	1	Total Mg 1 1	0
48	SG	1	Total Mg 1 1	0
48	SI	1	Total Mg 1 1	0
48	SK	1	Total Mg 1 1	0
48	SM	1	Total Mg 1 1	0
48	TA	1	Total Mg 1 1	0
48	TB	1	Total Mg 1 1	0
48	TE	1	Total Mg 1 1	0

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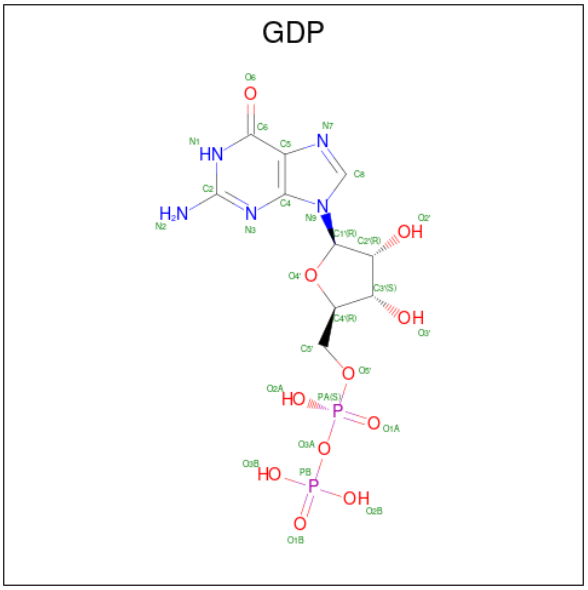
Mol	Chain	Residues	Atoms	AltConf
48	TF	1	Total Mg 1 1	0
48	TI	1	Total Mg 1 1	0
48	TK	1	Total Mg 1 1	0
48	TL	1	Total Mg 1 1	0
48	UA	1	Total Mg 1 1	0
48	UC	1	Total Mg 1 1	0
48	UE	1	Total Mg 1 1	0
48	UG	1	Total Mg 1 1	0
48	UI	1	Total Mg 1 1	0
48	UK	1	Total Mg 1 1	0
48	UM	1	Total Mg 1 1	0
48	VA	1	Total Mg 1 1	0
48	VC	1	Total Mg 1 1	0
48	VE	1	Total Mg 1 1	0
48	VG	1	Total Mg 1 1	0
48	VI	1	Total Mg 1 1	0
48	VK	1	Total Mg 1 1	0
48	VM	1	Total Mg 1 1	0
48	WA	1	Total Mg 1 1	0
48	WC	1	Total Mg 1 1	0
48	WE	1	Total Mg 1 1	0

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Mol	Chain	Residues	Atoms	AltConf
48	WG	1	Total Mg 1 1	0
48	WI	1	Total Mg 1 1	0
48	WK	1	Total Mg 1 1	0
48	WM	1	Total Mg 1 1	0
48	CE	1	Total Mg 1 1	0
48	DC	1	Total Mg 1 1	0

- Molecule 49 is GUANOSINE-5'-DIPHOSPHATE (CCD ID: GDP) (formula: $C_{10}H_{15}N_5O_{11}P_2$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	AltConf
49	AB	1	Total C N O P 28 10 5 11 2	0
49	AD	1	Total C N O P 28 10 5 11 2	0
49	AF	1	Total C N O P 28 10 5 11 2	0
49	AH	1	Total C N O P 28 10 5 11 2	0
49	AJ	1	Total C N O P 28 10 5 11 2	0

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Mol	Chain	Residues	Atoms					AltConf
49	AL	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	AN	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	BB	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	BD	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	BF	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	BH	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	BJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	BL	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	BN	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	CB	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	CD	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	CF	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	CH	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	CJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	CL	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	CN	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	DB	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	DD	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	DF	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	DH	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	DJ	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
49	DL	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	DN	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	EB	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	ED	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	EF	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	EH	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	EJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	EL	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	EN	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	FB	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	FD	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	FF	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	FH	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	FJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	FL	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	FN	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	GB	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	GD	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	GF	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	GH	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	GJ	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
49	GL	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	GN	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	HB	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	HD	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	HF	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	HH	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	HJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	HL	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	HN	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	IB	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	ID	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	IF	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	IH	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	IJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	IL	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	IN	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	JB	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	JD	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	JF	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	JH	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	JJ	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
49	JL	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	JN	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	KB	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	KD	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	KF	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	KH	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	KJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	KL	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	KN	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	LB	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	LD	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	LF	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	LH	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	LJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	LL	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	LN	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	MB	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	MD	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	MF	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	MH	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	MJ	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
49	ML	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	MN	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	NB	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	ND	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	NF	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	NH	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	NJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	NL	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	NN	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	OB	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	OD	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	OF	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	OH	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	OJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	OL	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	ON	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	PB	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	PD	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	PF	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	PH	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	PJ	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
49	PL	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	PN	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	QB	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	QD	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	QF	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	QH	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	QJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	QL	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	QN	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	RB	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	RD	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	RF	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	RH	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	RJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	RL	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	RN	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	SB	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	SD	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	SF	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	SH	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	SJ	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
49	SL	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	SN	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	TB	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	TD	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	TF	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	TH	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	TJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	TL	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	TN	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	UB	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	UD	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	UF	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	UH	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	UJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	UL	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	UN	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	VB	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	VD	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	VF	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	VH	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	VJ	1	Total	C	N	O	P	0
			28	10	5	11	2	

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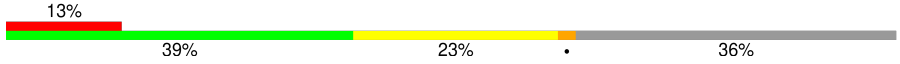
Mol	Chain	Residues	Atoms					AltConf
49	VL	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	VN	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	WB	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	WD	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	WF	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	WH	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	WJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	WL	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	WN	1	Total	C	N	O	P	0
			28	10	5	11	2	

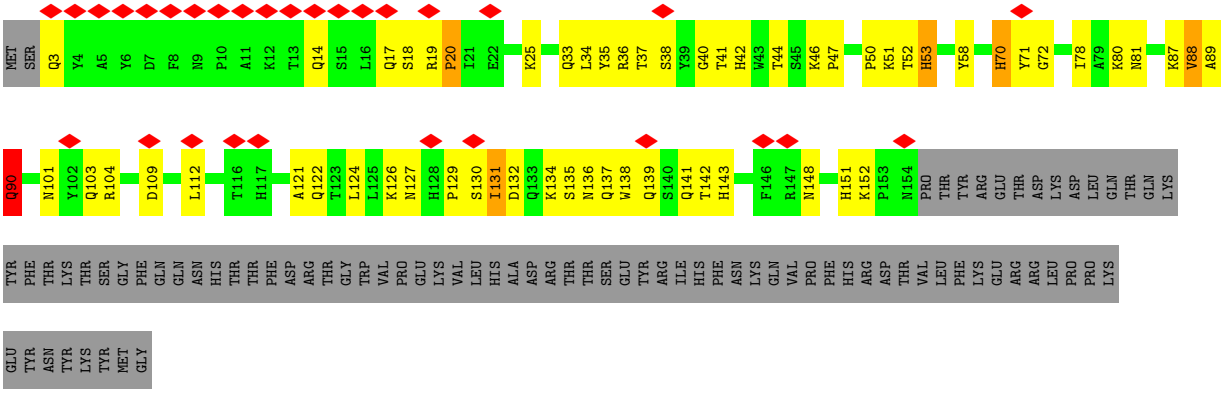
3 Residue-property plots (i)

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: RIB27A

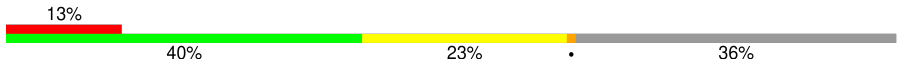
Chain 0A:

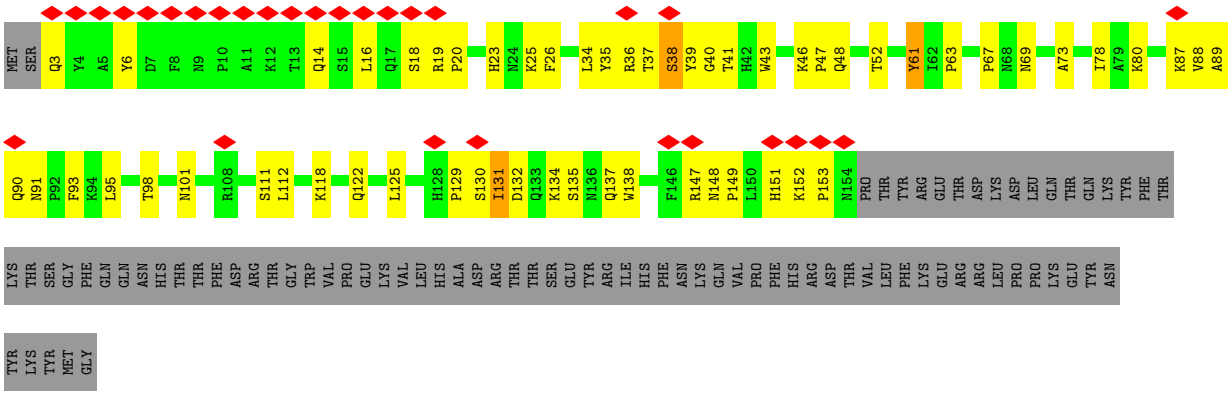




- Molecule 1: RIB27A

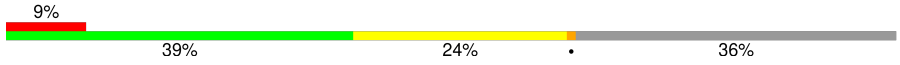
Chain 1A:

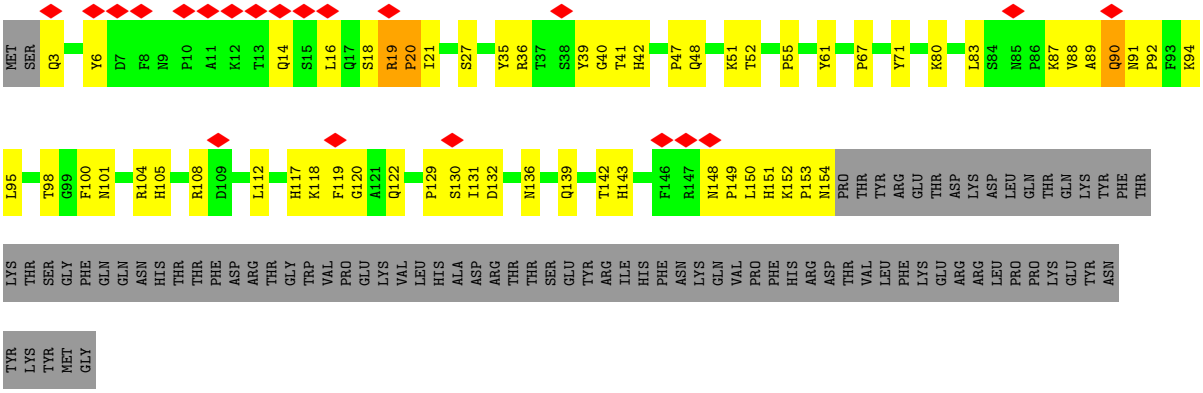




- Molecule 1: RIB27A

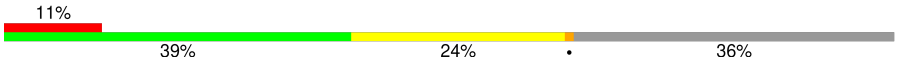
Chain 2A:

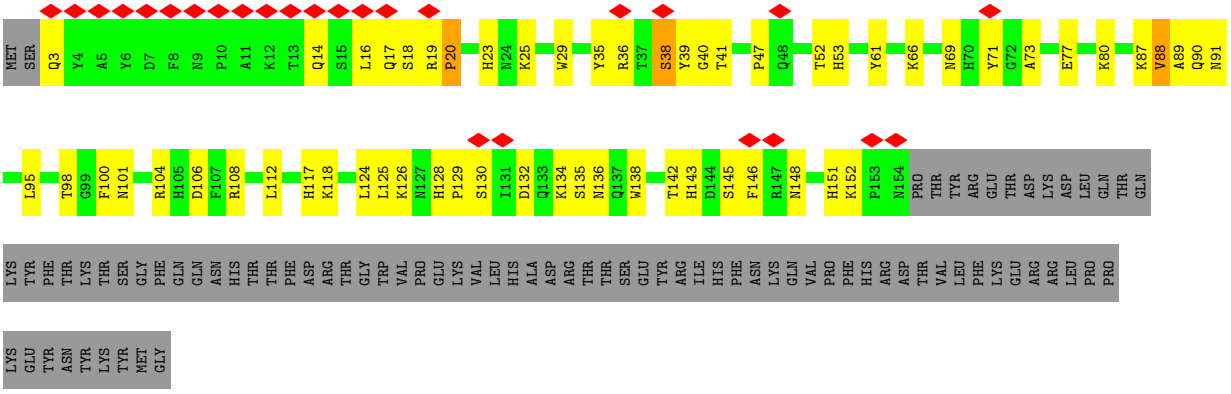




• Molecule 1: RIB27A

Chain 3A:

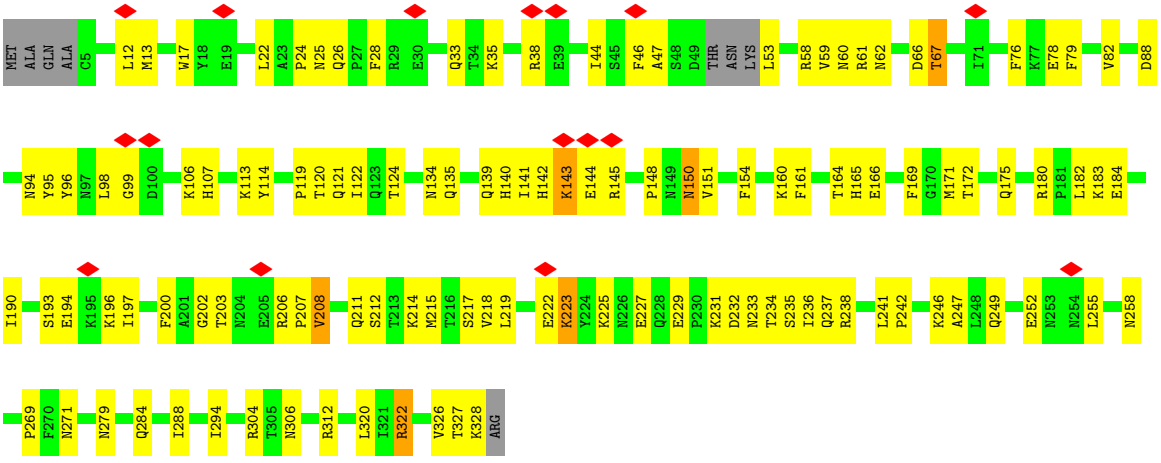




• Molecule 2: RIB38

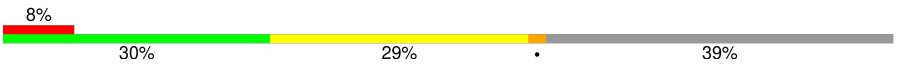
Chain 0B:

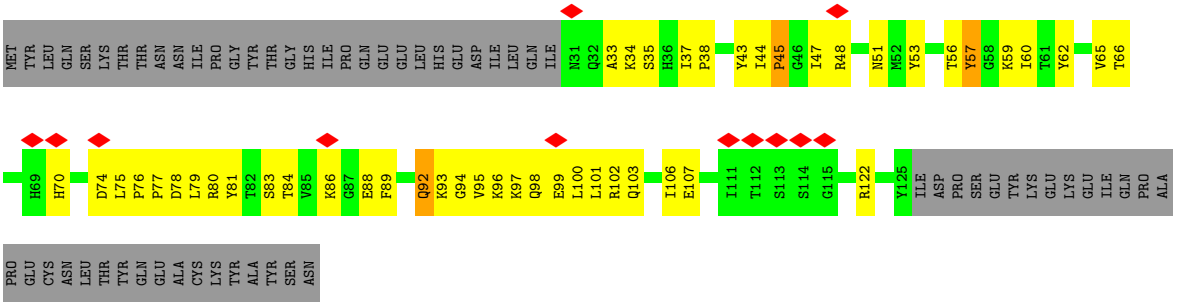




• Molecule 3: CFAM166B

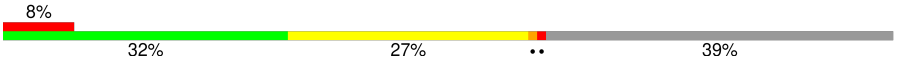
Chain 0C:

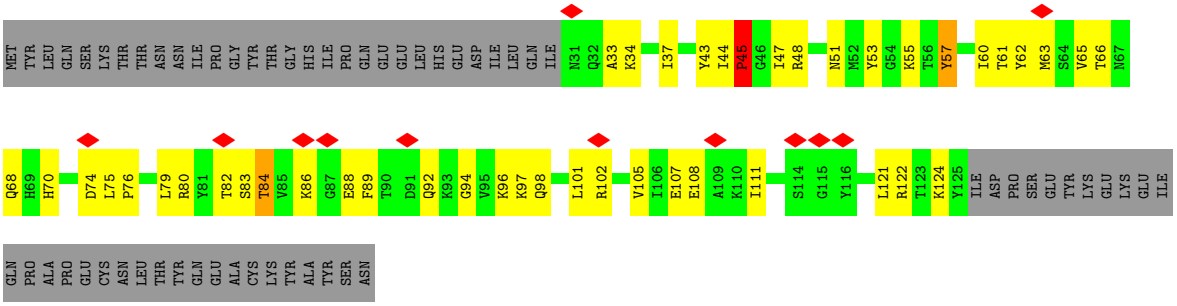




• Molecule 3: CFAM166B

Chain 1C:

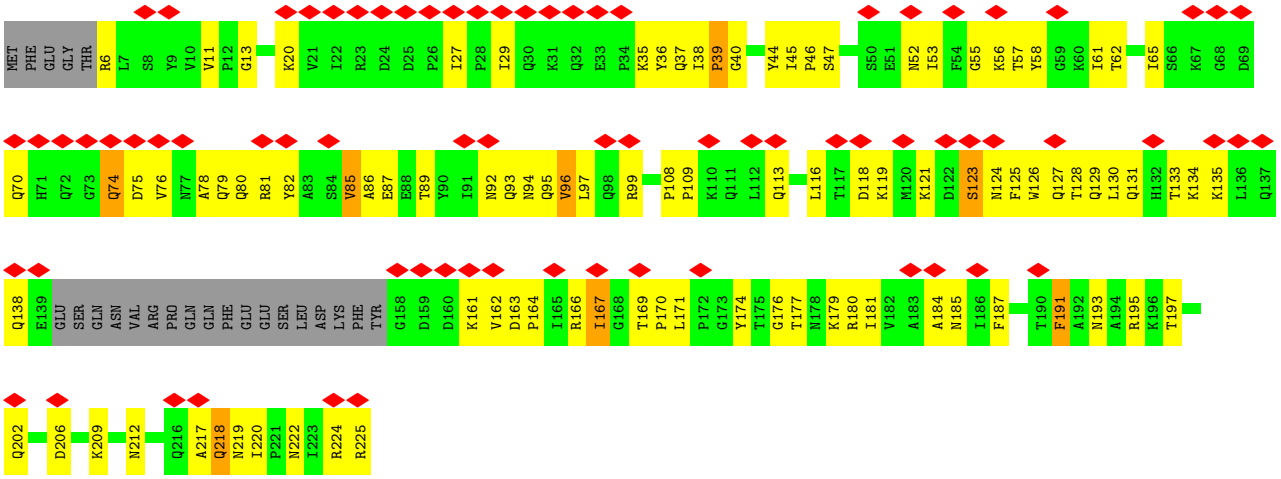




• Molecule 4: CFAM166A

Chain 0D:

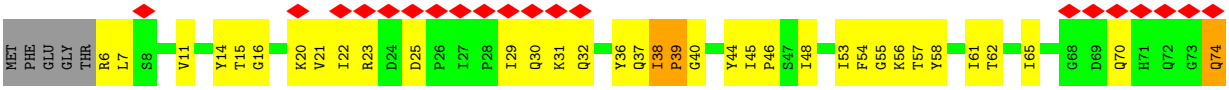


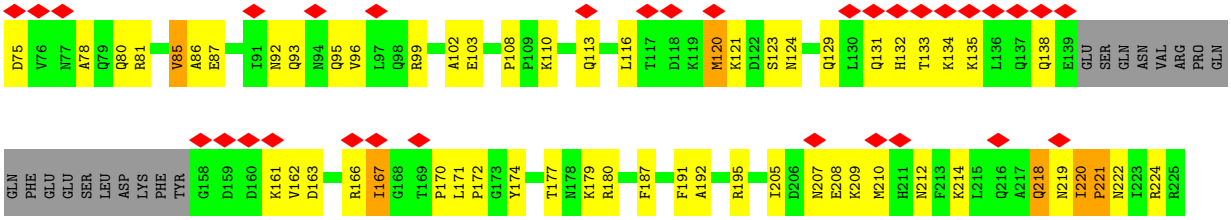


• Molecule 4: CFAM166A

Chain 1D:



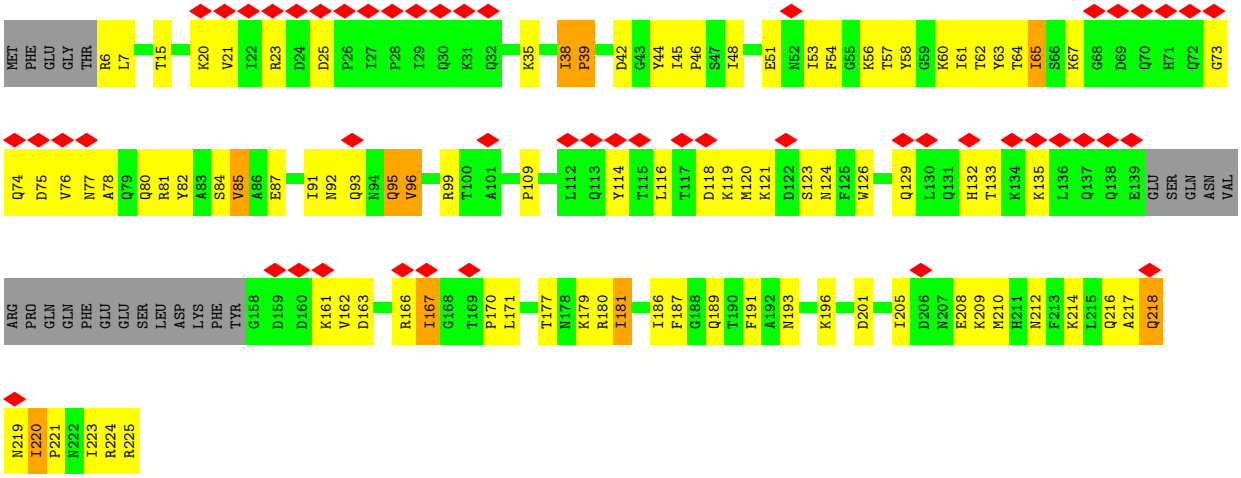




• Molecule 4: CFAM166A

Chain 2D:

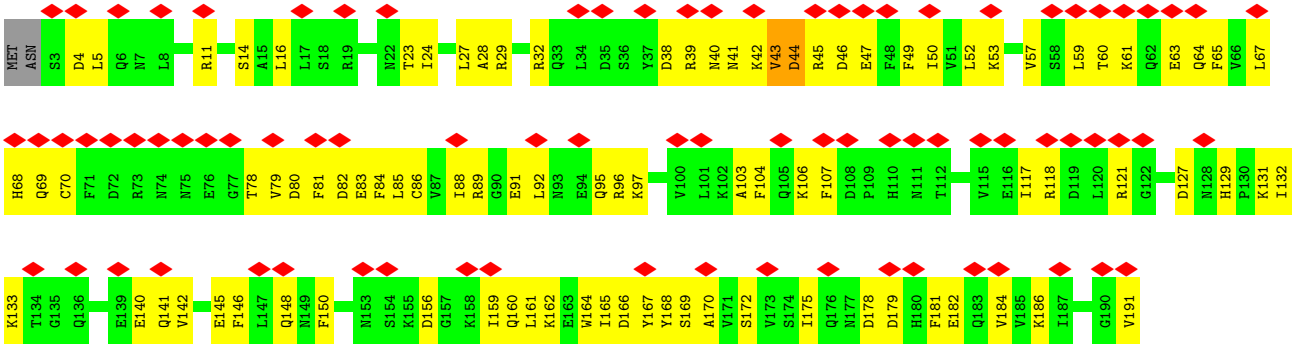




• Molecule 5: RIB22

Chain 0E:

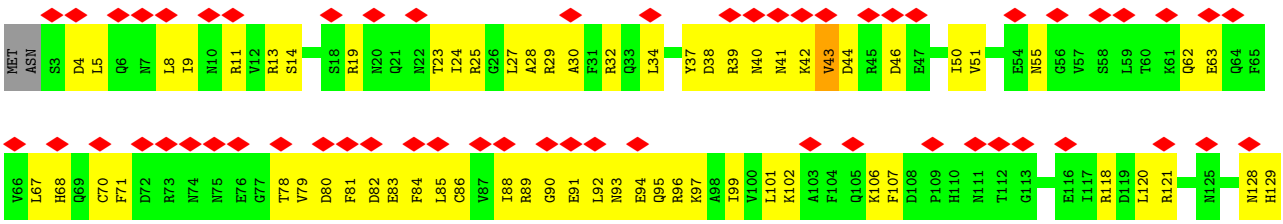


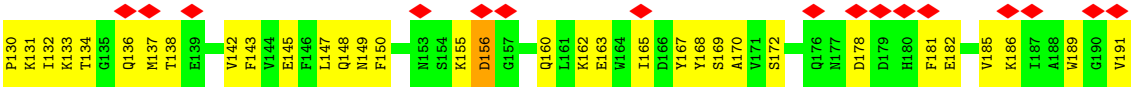


• Molecule 5: RIB22

Chain 1E:



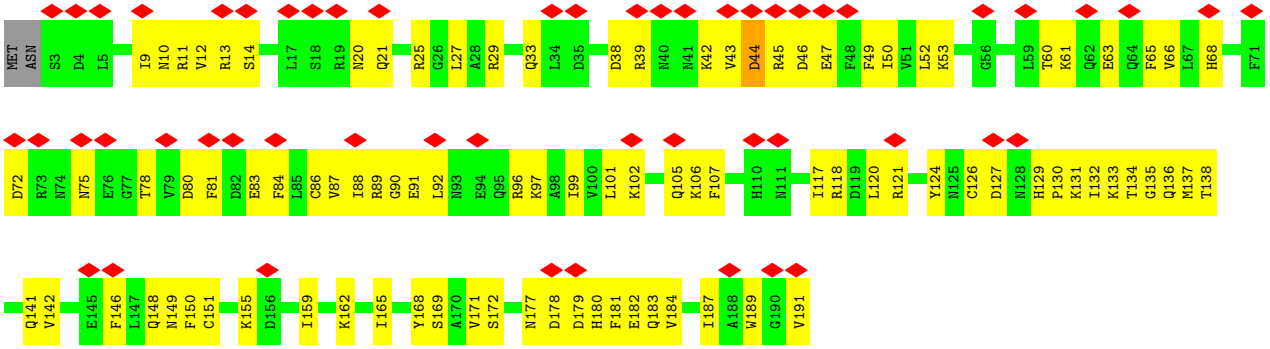




• Molecule 5: RIB22

Chain 2E:

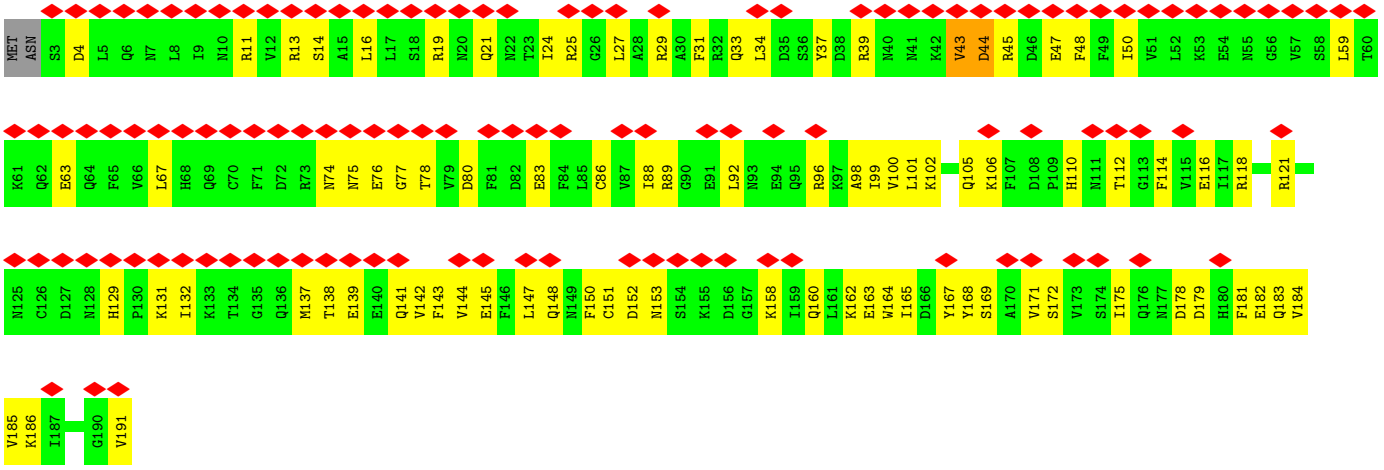




• Molecule 5: RIB22

Chain 3E:

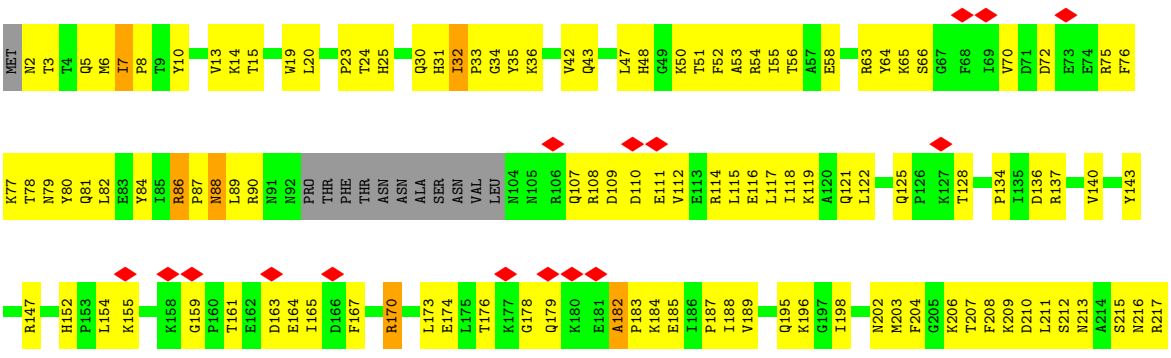




• Molecule 6: CFAM166C

Chain 0F:

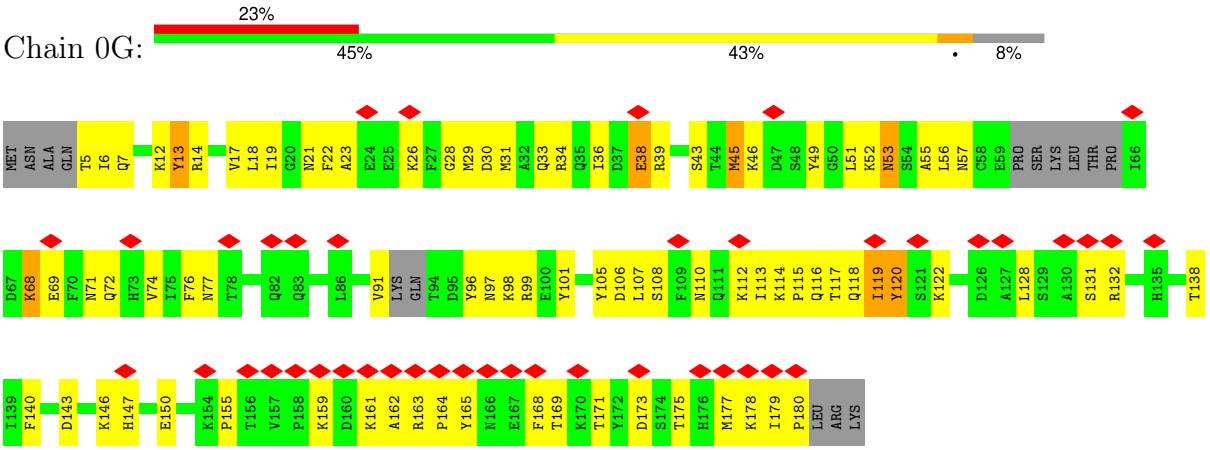






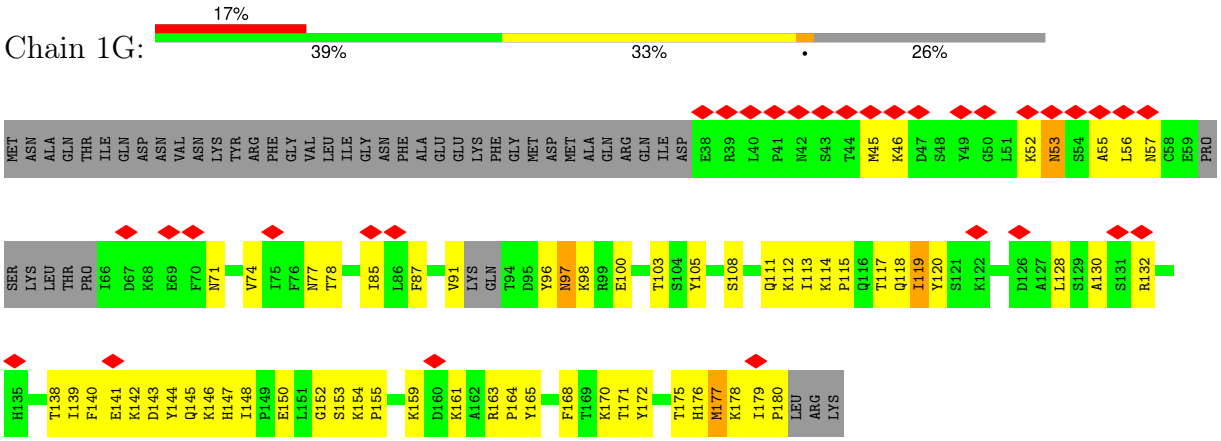
• Molecule 7: CFAP107

Chain 0G:



• Molecule 7: CFAP107

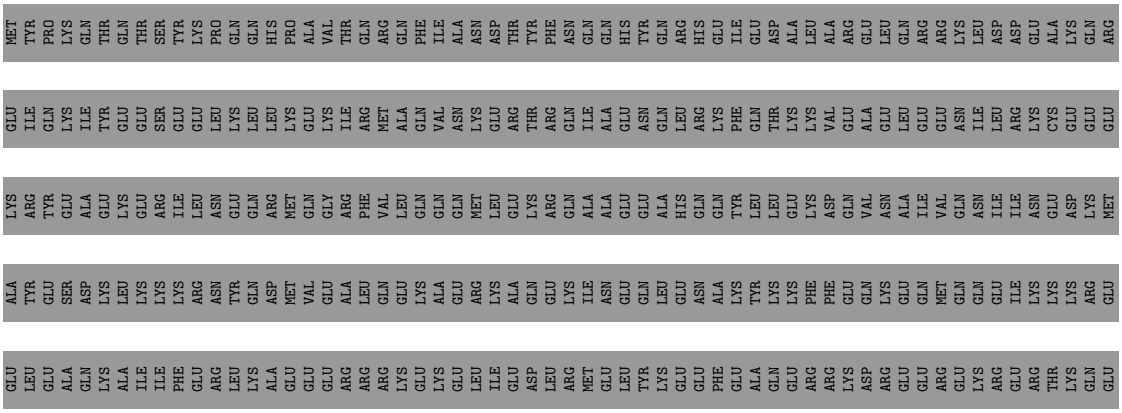
Chain 1G:

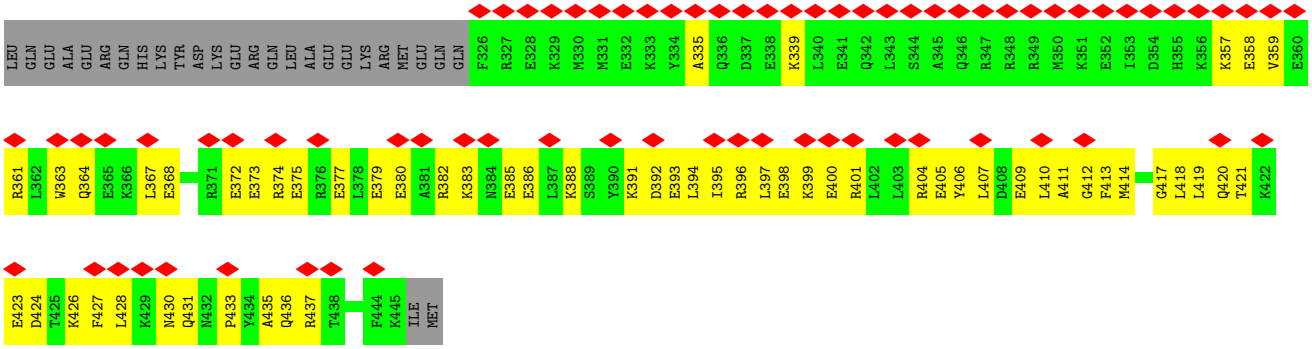


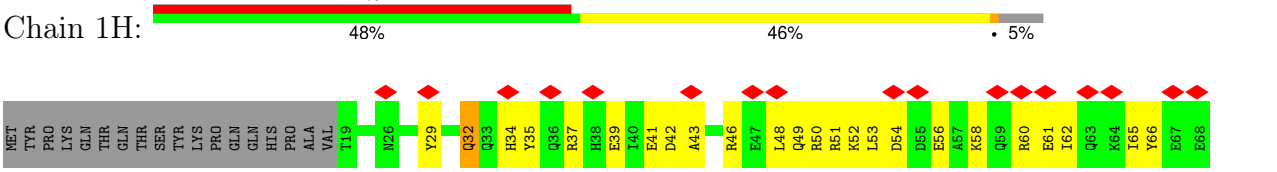
• Molecule 8: CFAP127

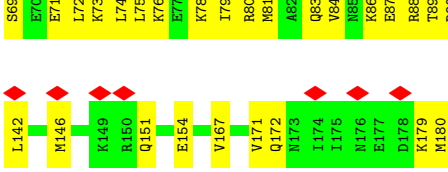
Chain 0H:







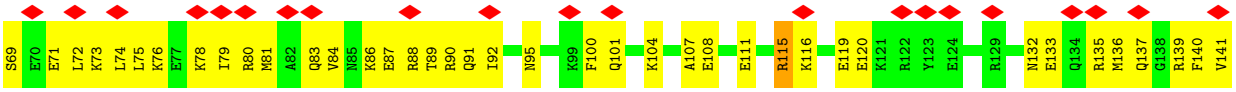


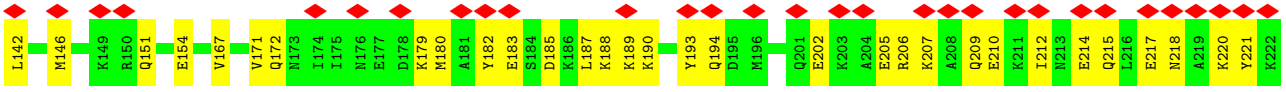


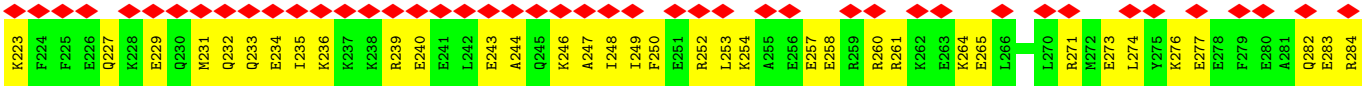
• Molecule 8: CFAP127

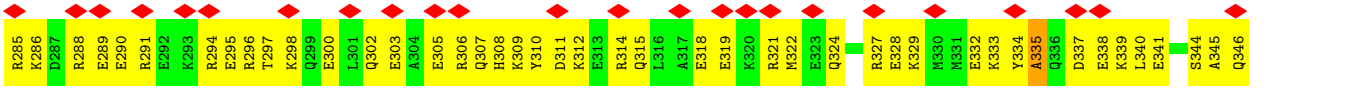
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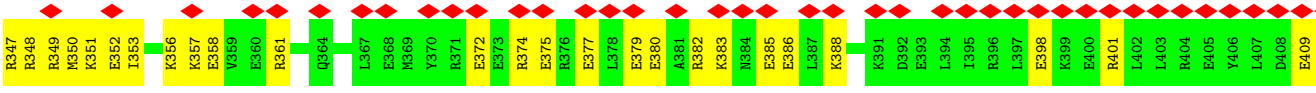


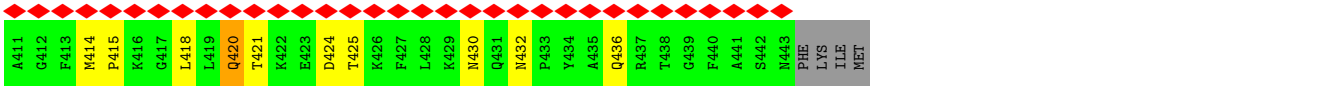








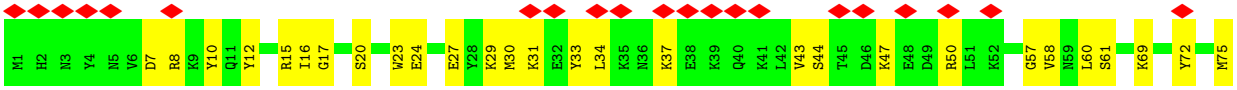


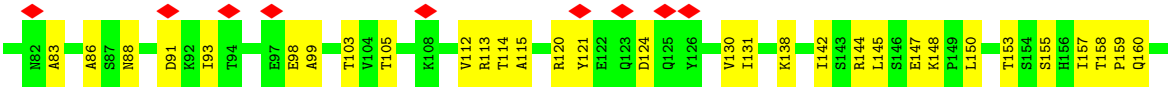


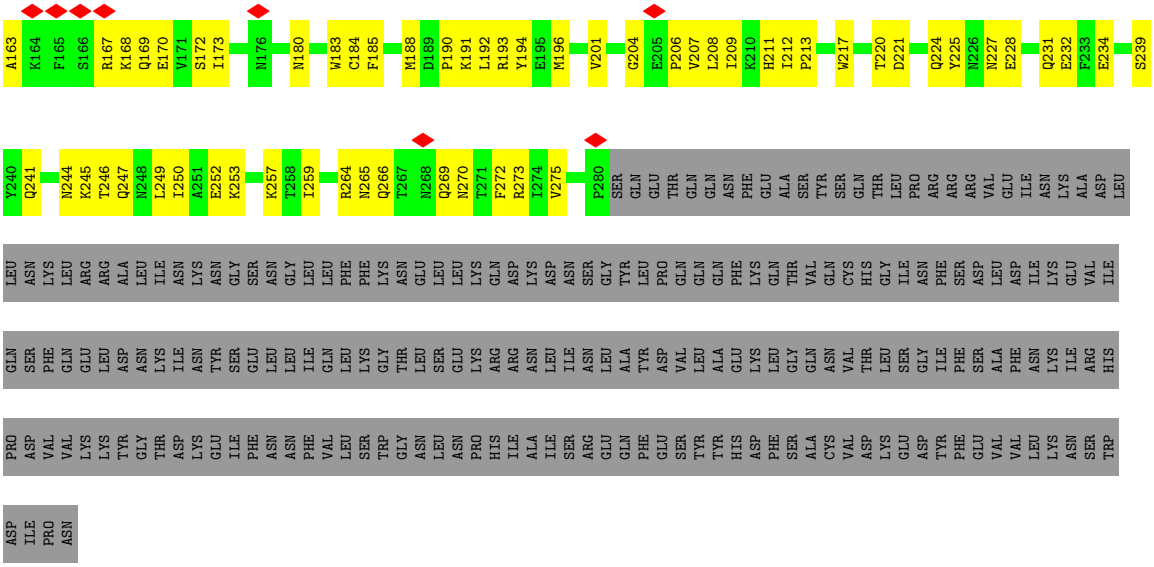


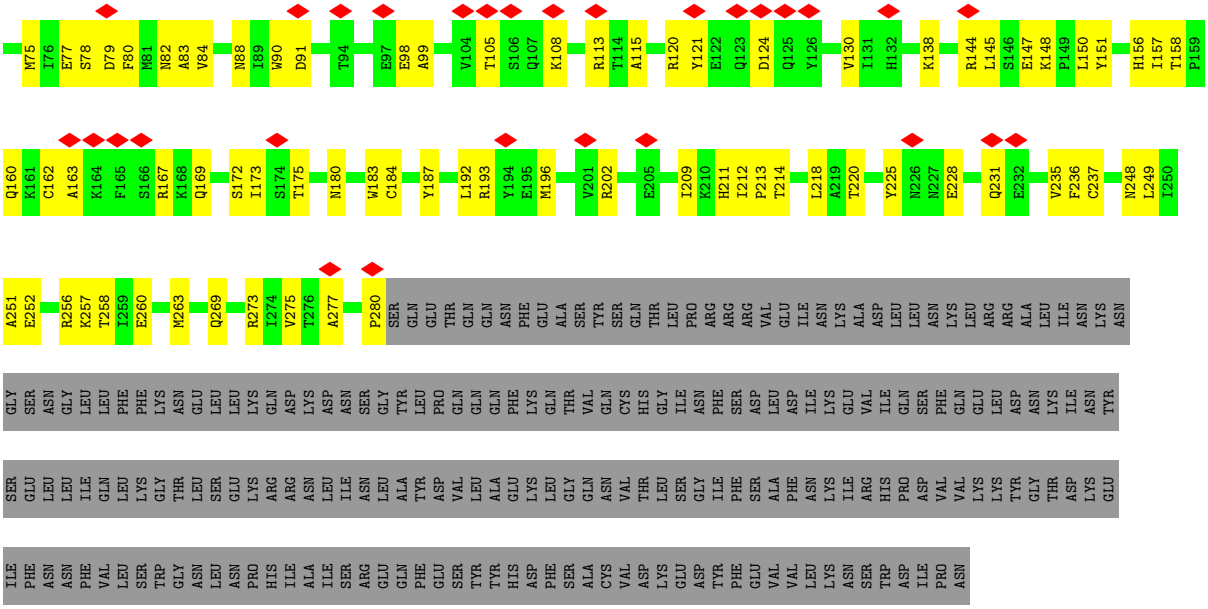
• Molecule 9: CFAP161A

Chain 0N:





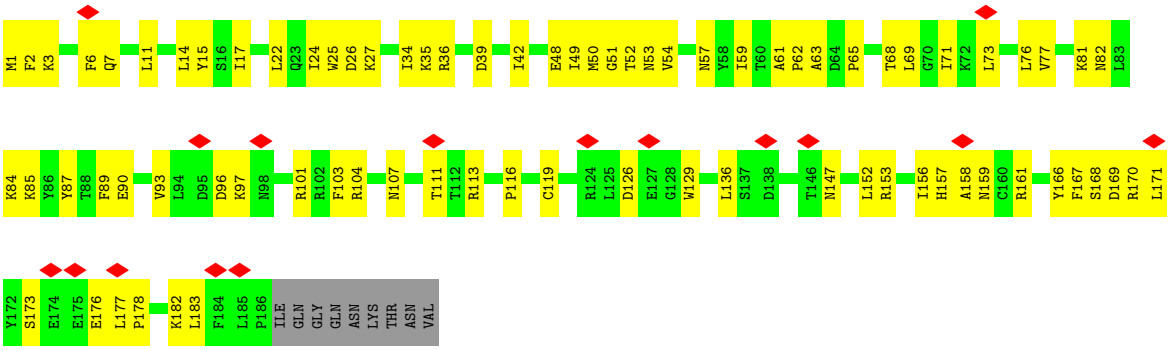

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Y240 Q241 N244 K245 T246 Q247 N248 L249 I250 A251 E252 K253 K257 T258 I259 R264 N265 Q266 T267 N268 Q269 N270 T271 F272 R273 I274 V275 P280 SER GLN GLU GLU THR GLN GLN ASN PHE GLU ALA SER TYR SER GLN THR LEU PRO ARG ARG ARG VAL GLU ILE ASN LYS ALA ASP LEU
LEU ASN LYS LEU ARG ARG ALA LEU ILE ASN LYS ASN GLY SER ASN GLY LEU LEU PHE PHE LYS ASN GLU LEU LEU LEU PHE PHE LYS ASN GLU LEU SER GLU LYS ARG ARG ASN LEU ILE ASN SER ARG GLU GLN PHE GLU SER TYR TYR HIS ILE ALA ILE



- Molecule 10: CFAP20

Chain 0Q:

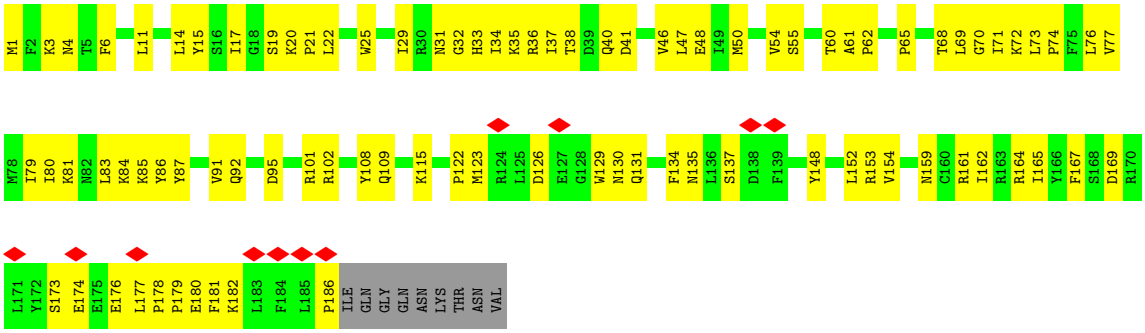




- Molecule 10: CFAP20

Chain 1Q:

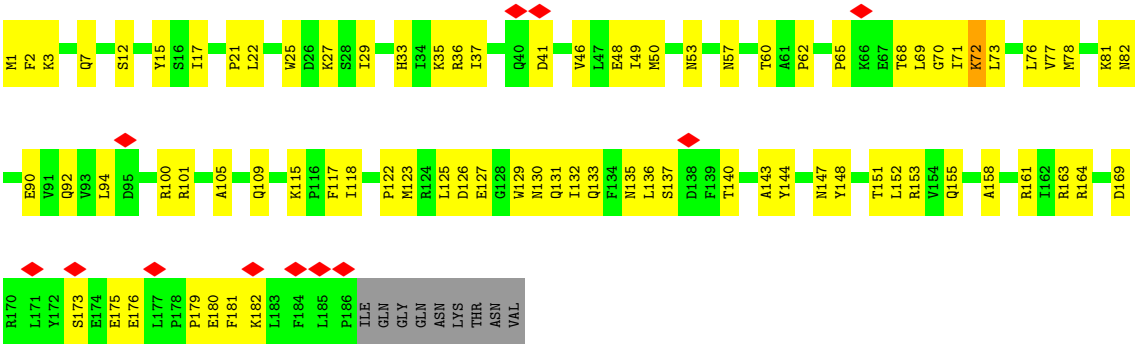




- Molecule 10: CFAP20

Chain 2Q:

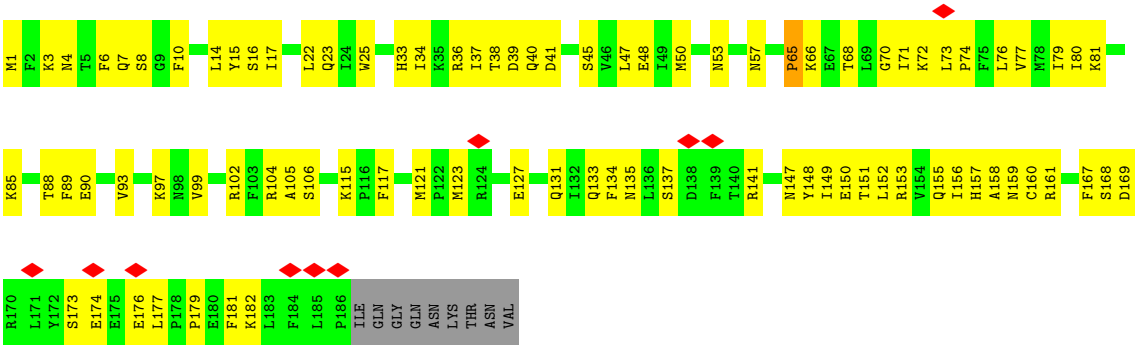




• Molecule 10: CFAP20

Chain 3Q:

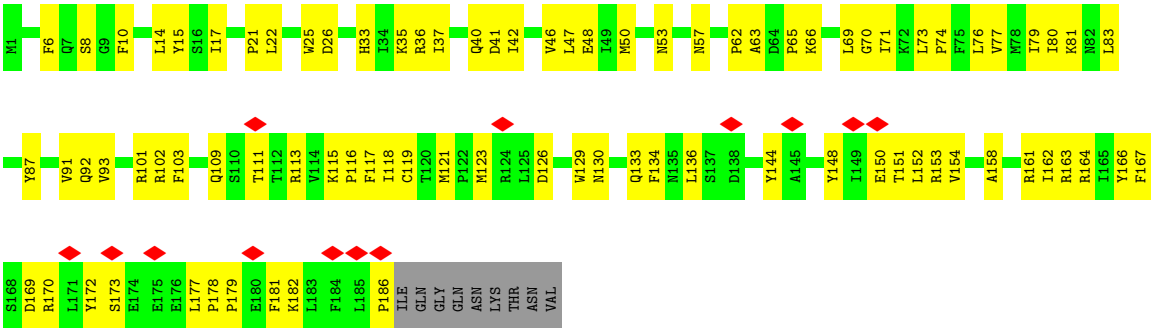




• Molecule 10: CFAP20

Chain 4Q:

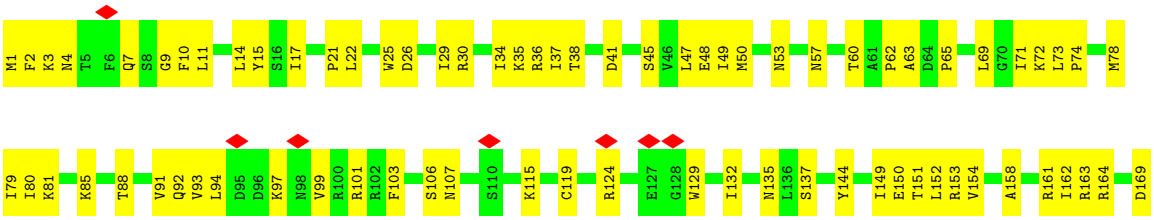


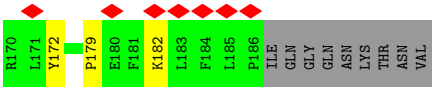


• Molecule 10: CFAP20

Chain 5Q:



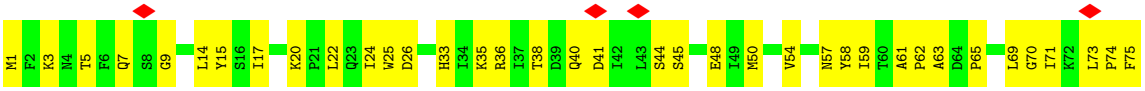


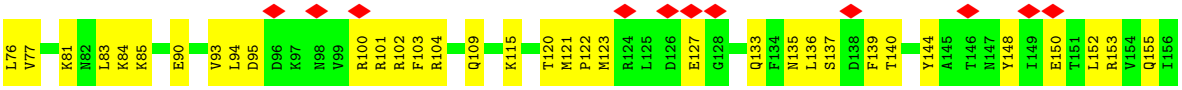


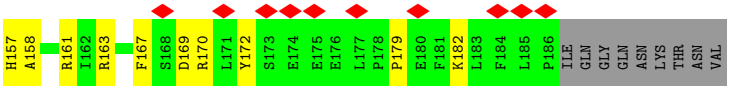
• Molecule 10: CFAP20

Chain 6Q:





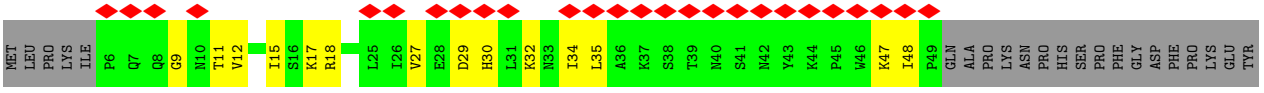


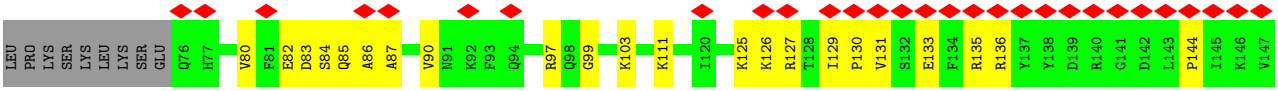


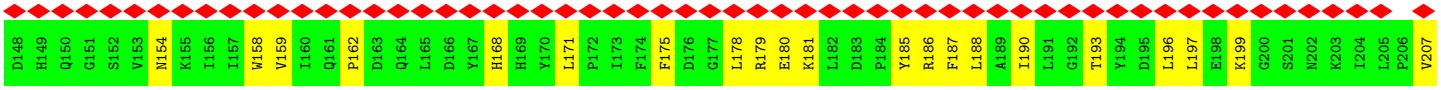
• Molecule 11: Parkin co-regulated protein PACRGA

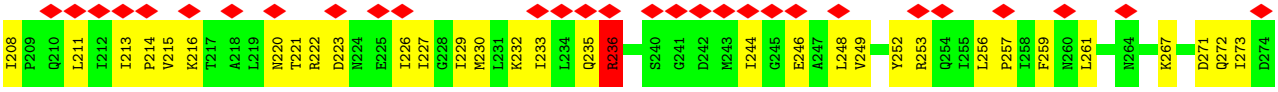
Chain 0S:

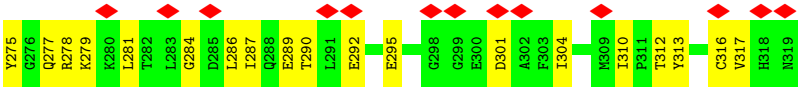








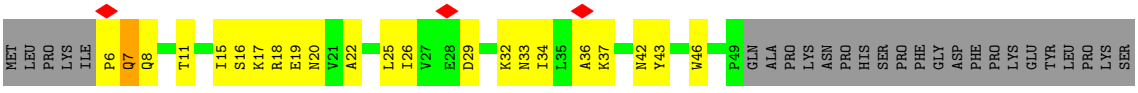


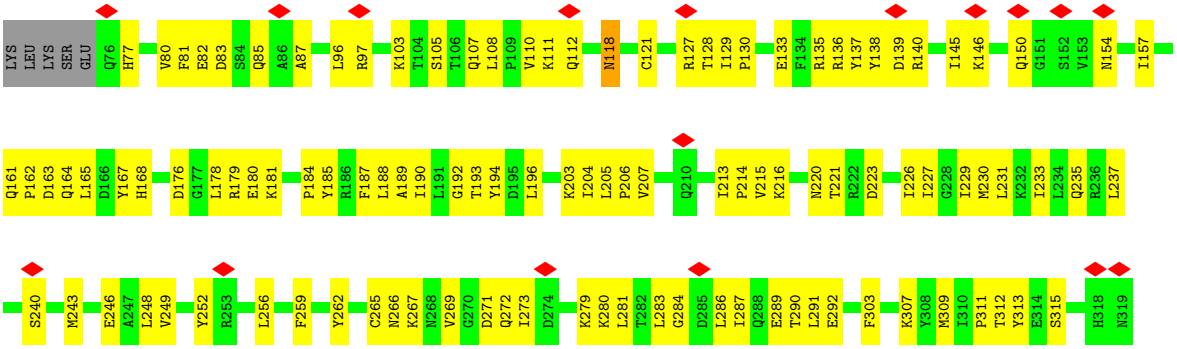


• Molecule 11: Parkin co-regulated protein PACRGA

Chain 1S:



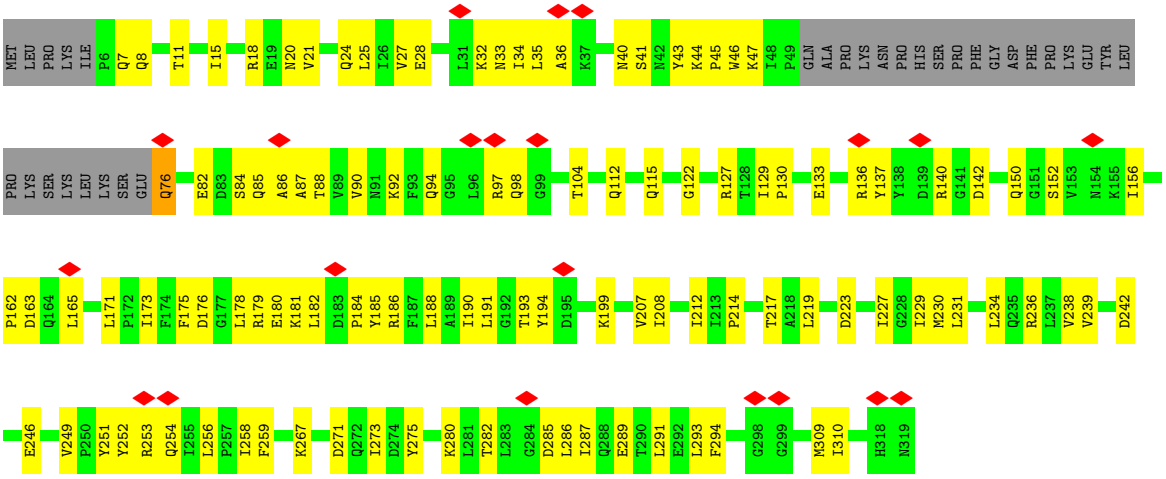




• Molecule 11: Parkin co-regulated protein PACRGA

Chain 2S:

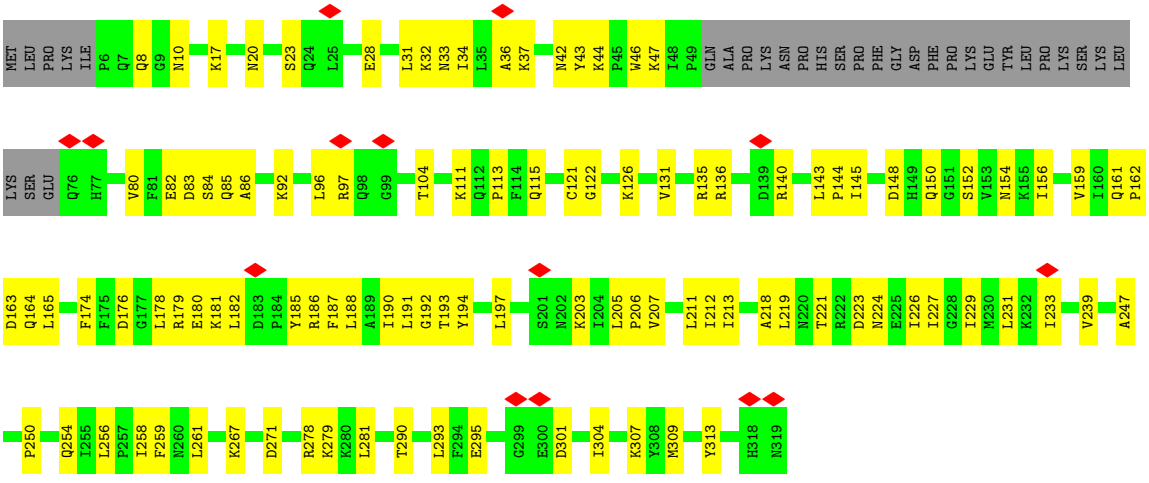




• Molecule 11: Parkin co-regulated protein PACRGA

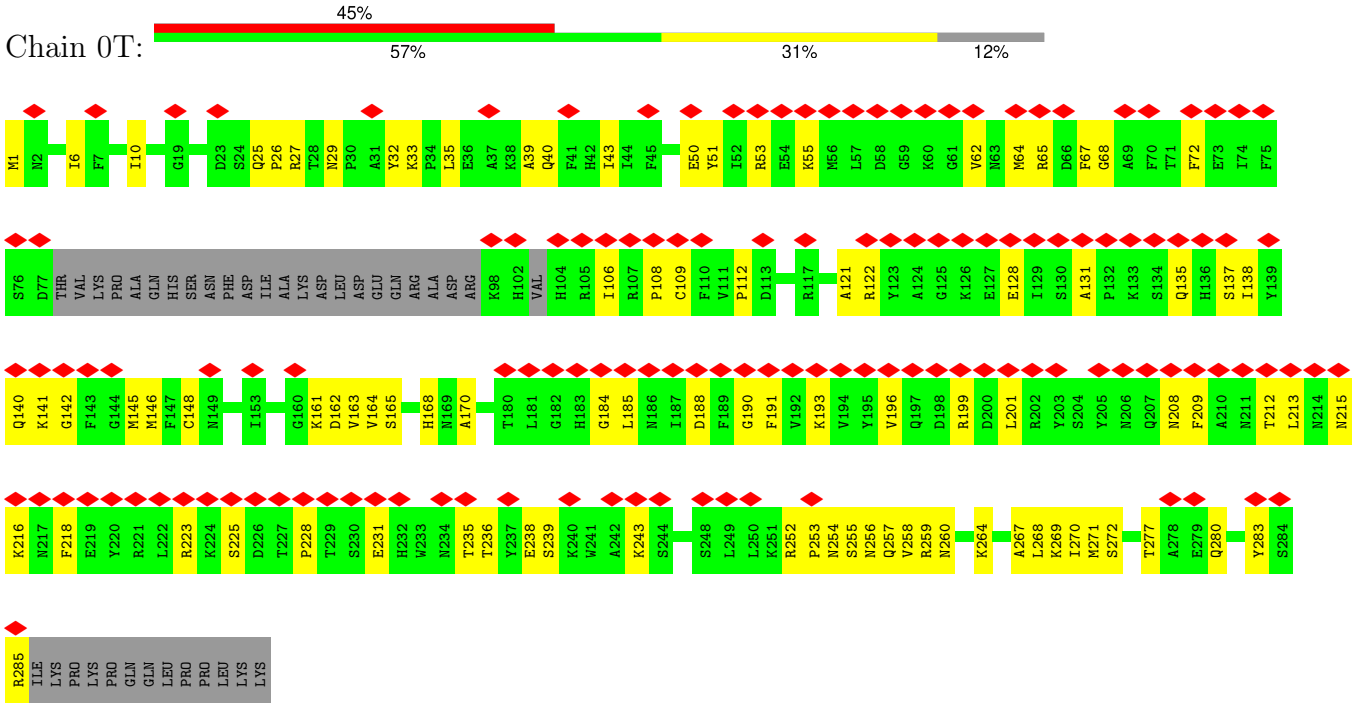
Chain 3S:





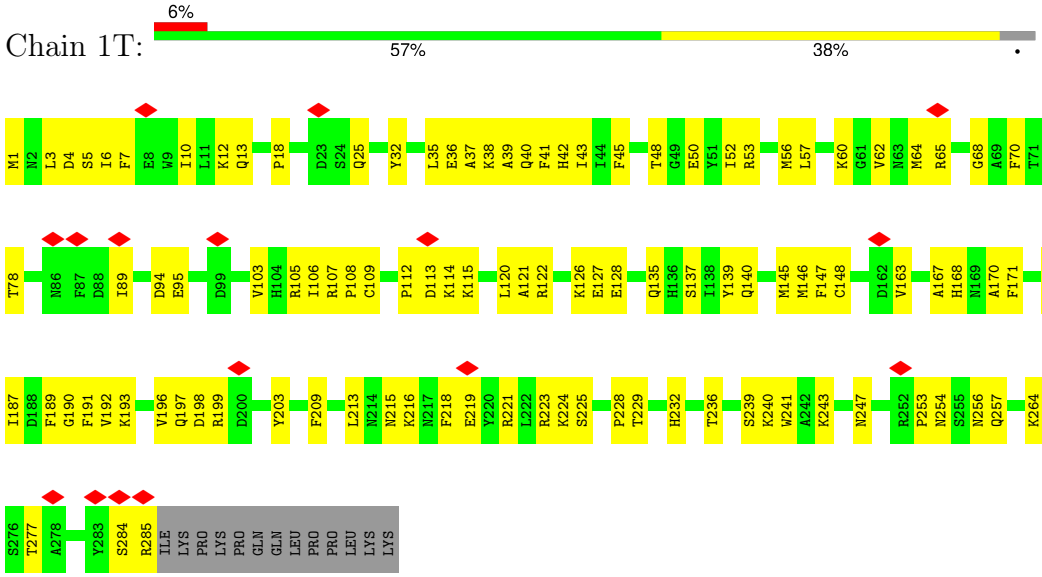
• Molecule 12: IJ34

Chain 0T:



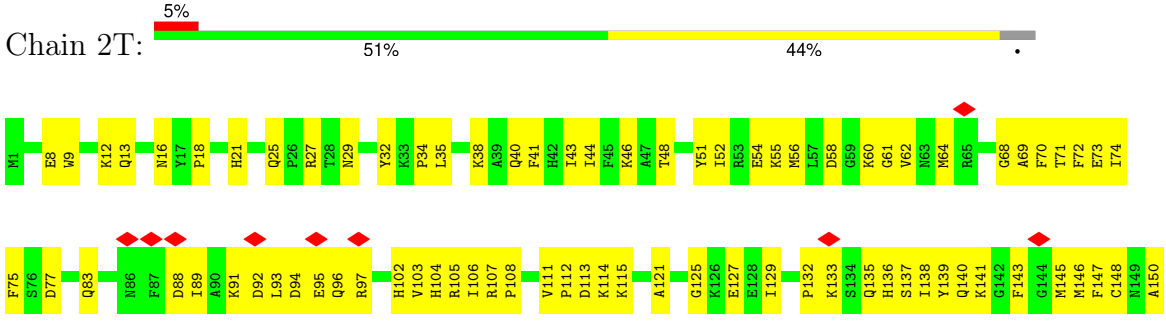
• Molecule 12: IJ34

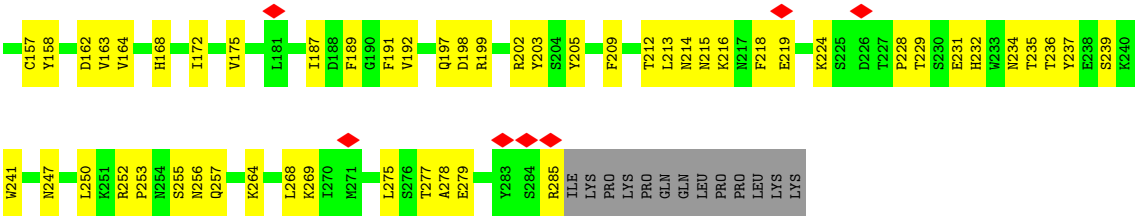
Chain 1T:



• Molecule 12: IJ34

Chain 2T:

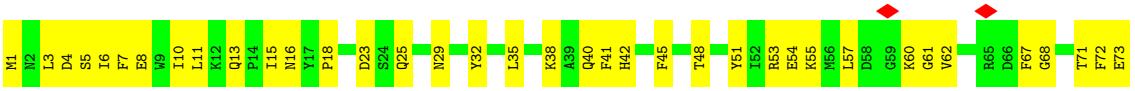


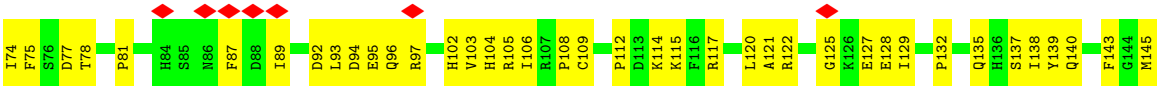


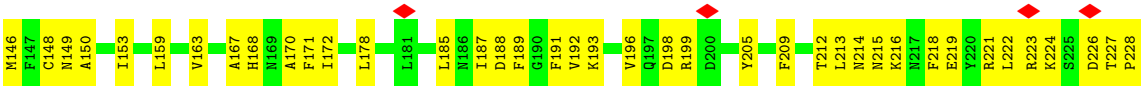
• Molecule 12: IJ34

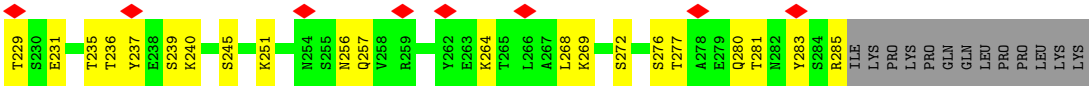
Chain 3T:







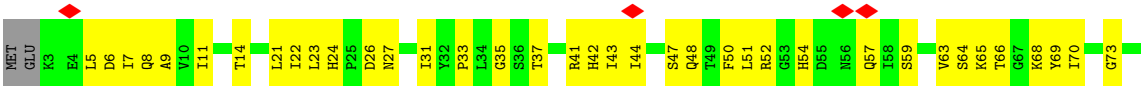


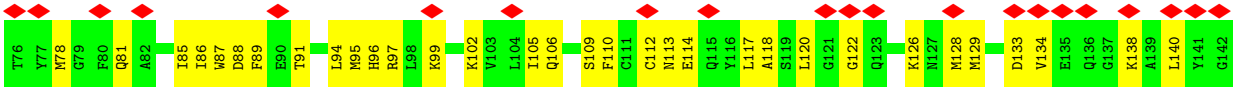


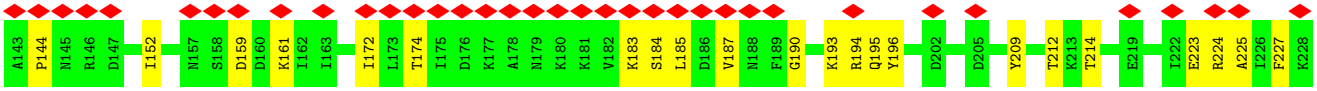
• Molecule 13: CFAP52A

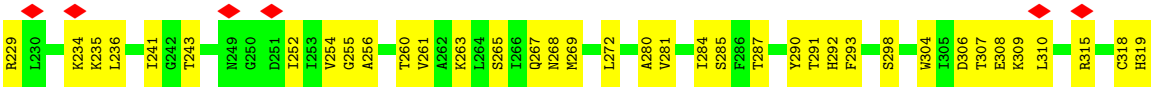
Chain 0U:

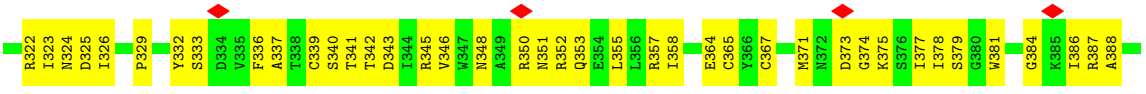


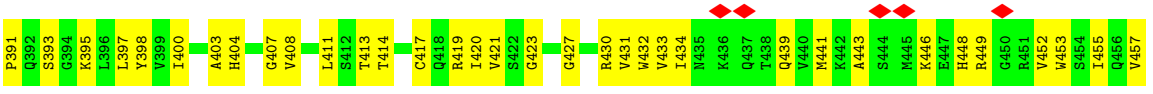


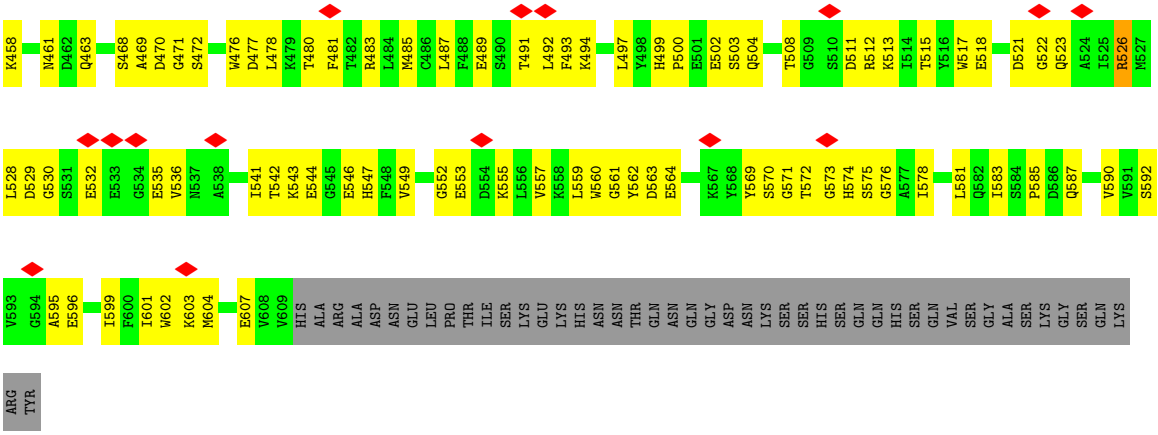








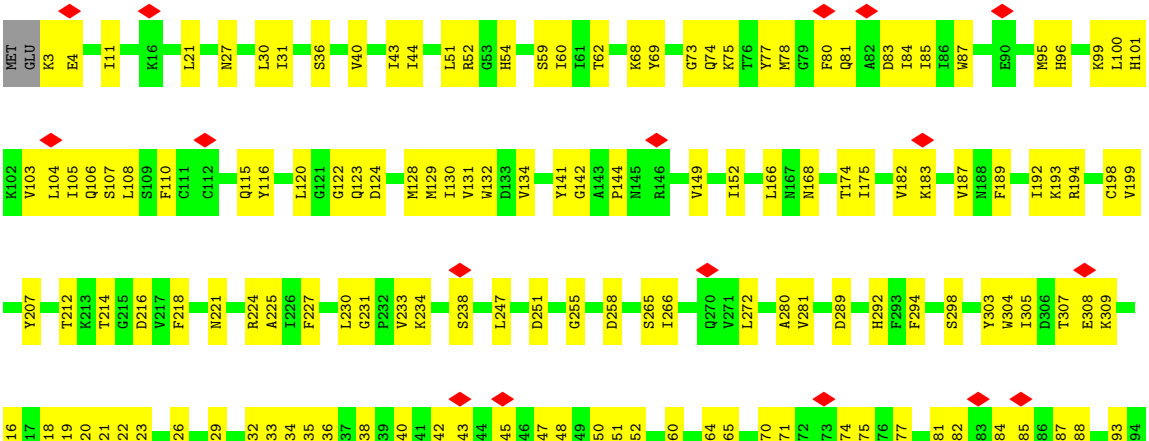




• Molecule 13: CFAP52A

Chain 1U:

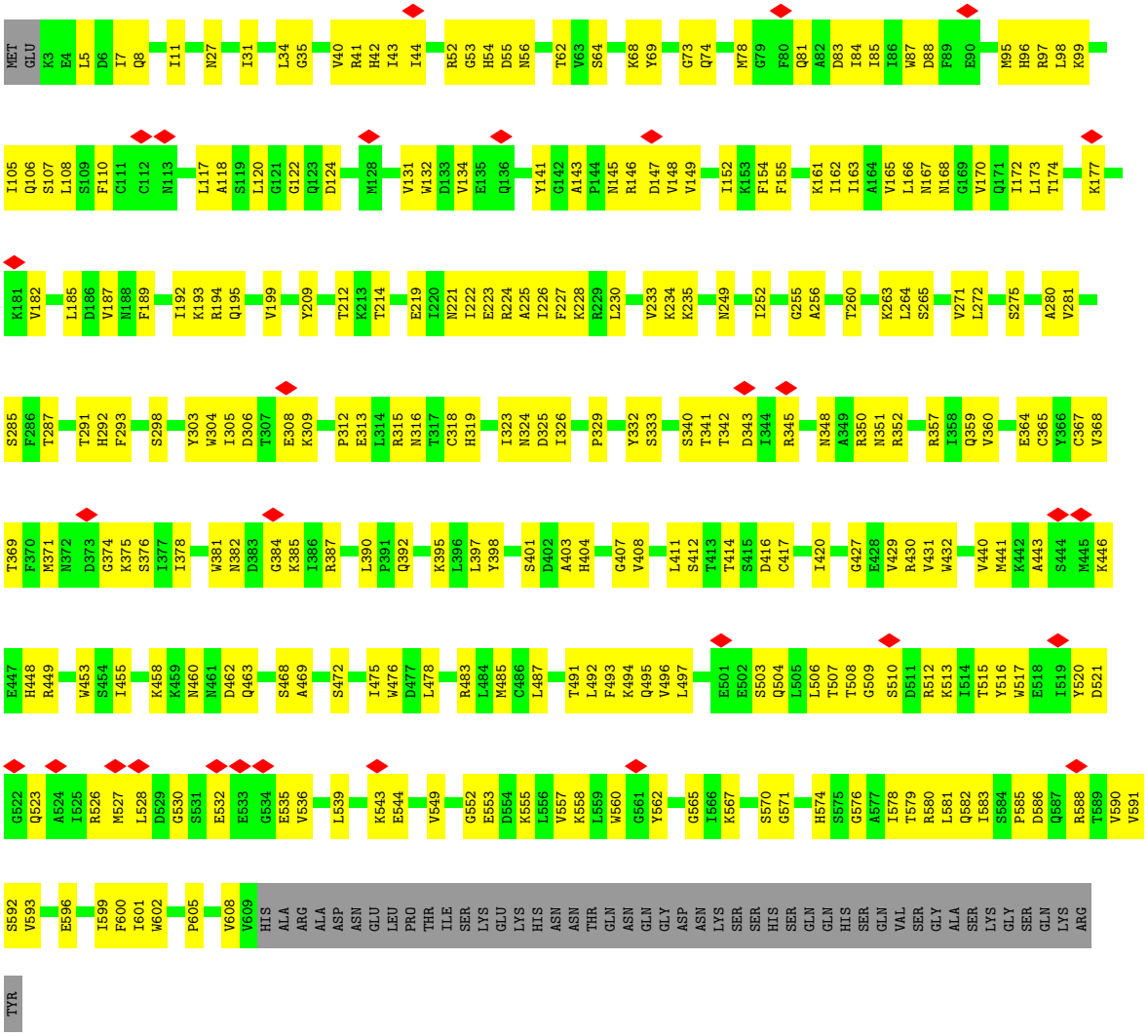




• Molecule 13: CFAP52A

Chain 2U:

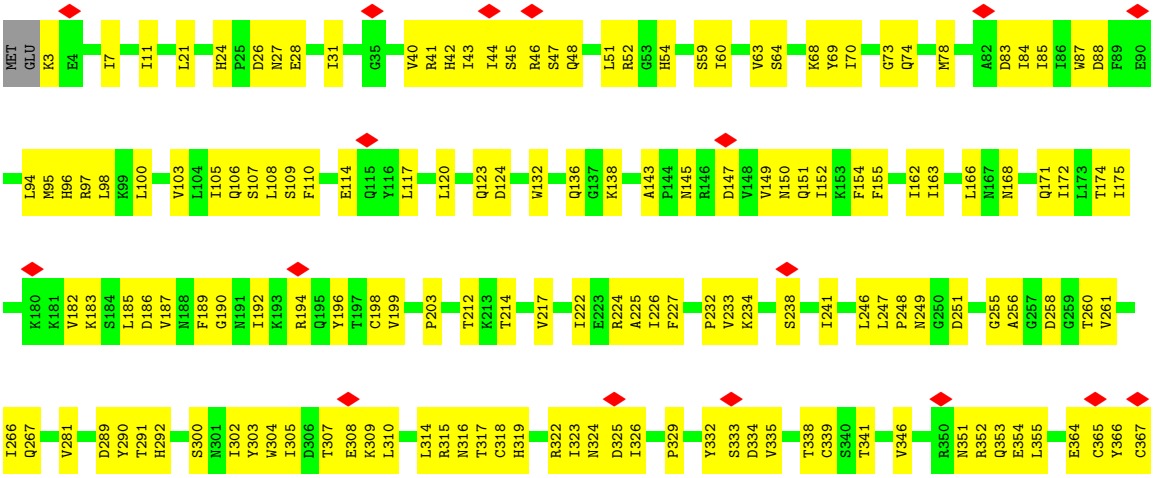


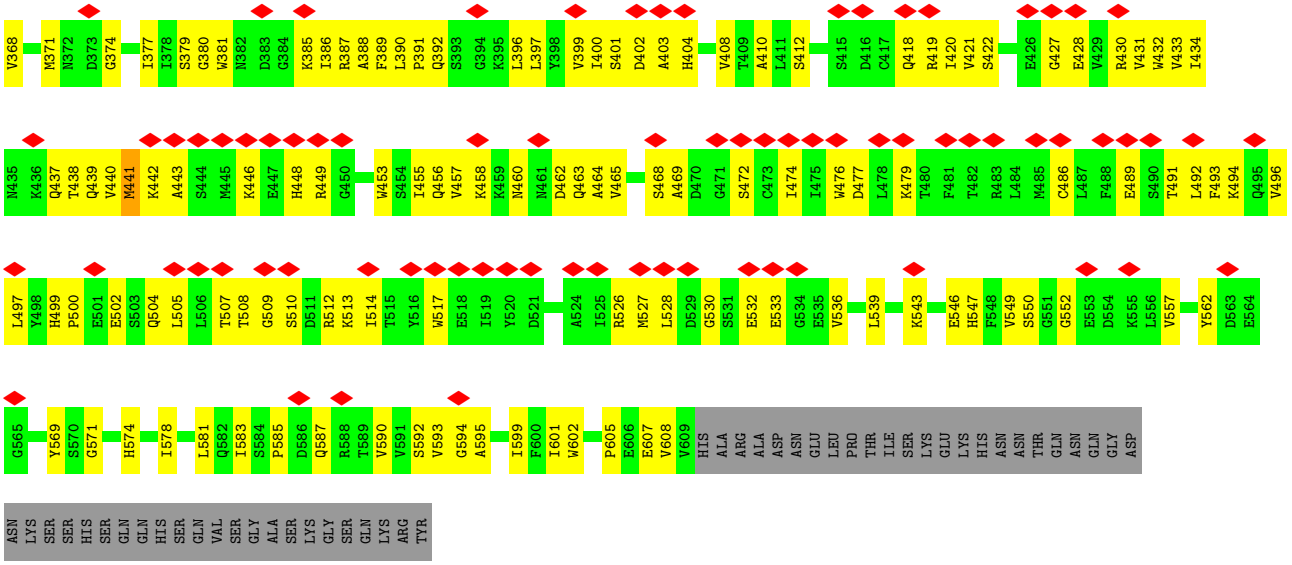


• Molecule 13: CFAP52A

Chain 3U:



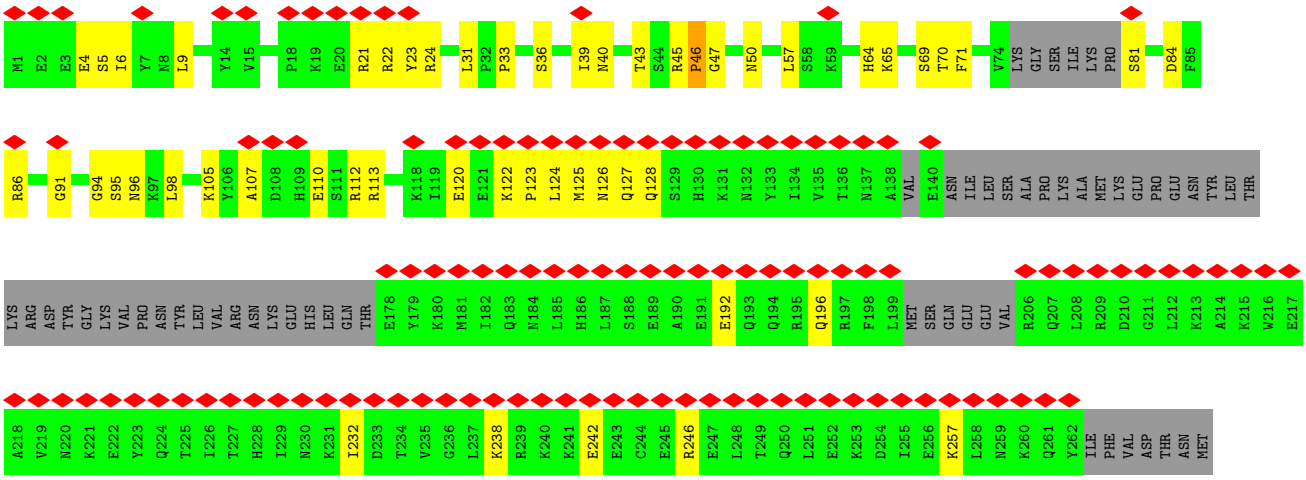




• Molecule 14: DNA polymerase delta C4-type zinc-finger protein

Chain 0V:

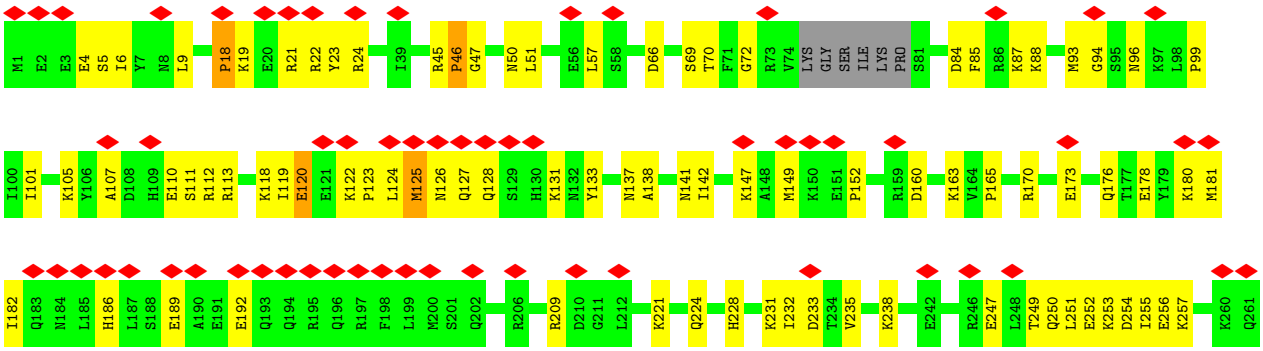


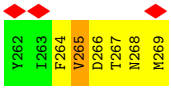


• Molecule 14: DNA polymerase delta C4-type zinc-finger protein

Chain 1V:



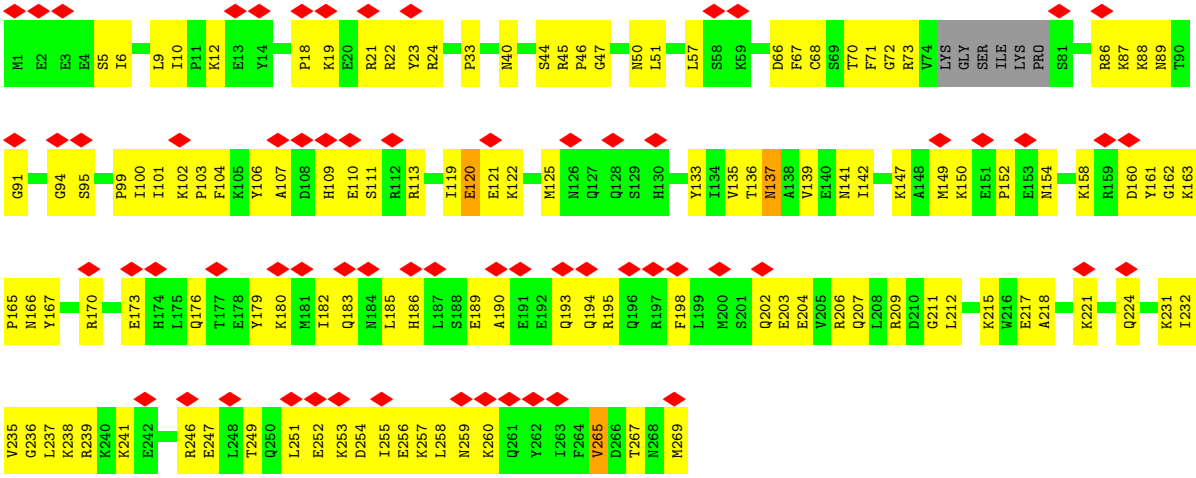




• Molecule 14: DNA polymerase delta C4-type zinc-finger protein

Chain 2V:

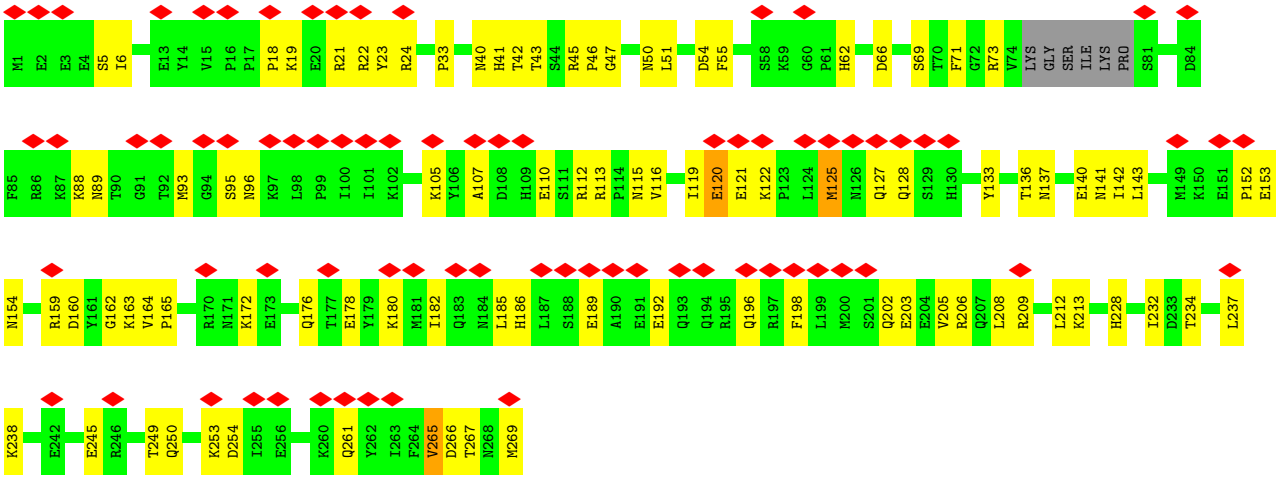




• Molecule 14: DNA polymerase delta C4-type zinc-finger protein

Chain 3V:

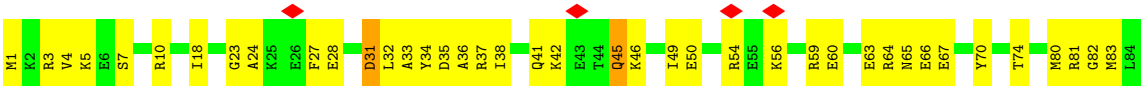


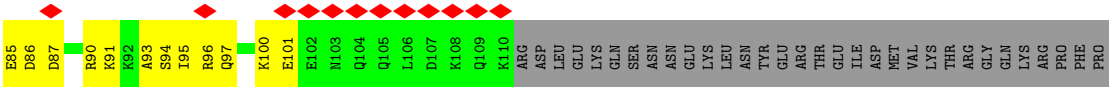


• Molecule 15: RIB43A protein

Chain 0X:



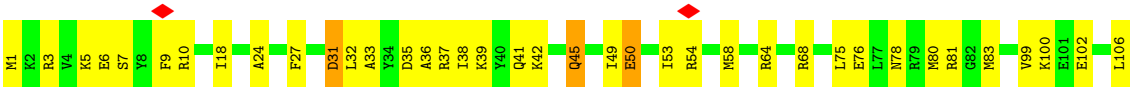


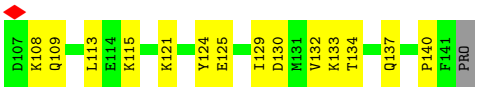


• Molecule 15: RIB43A protein

Chain 1X:



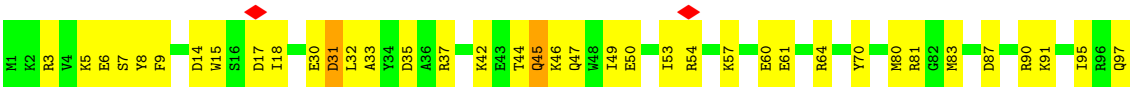




• Molecule 15: RIB43A protein

Chain 2X:



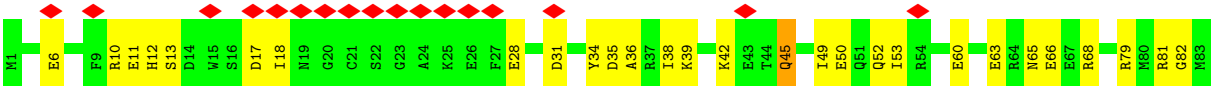




• Molecule 15: RIB43A protein

Chain 3X:



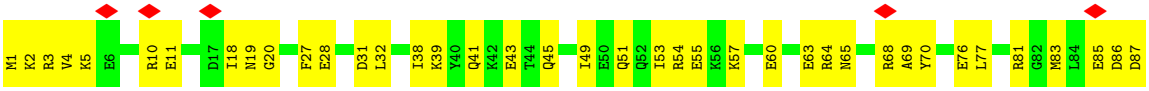




• Molecule 15: RIB43A protein

Chain 4X:

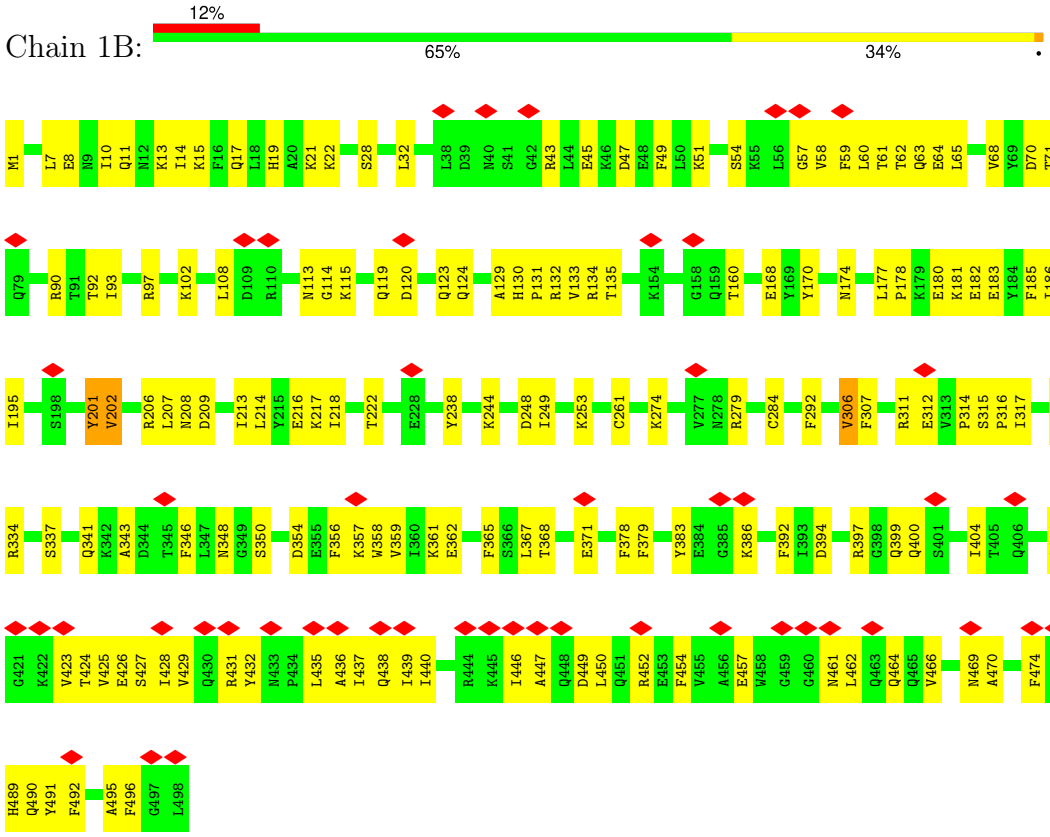






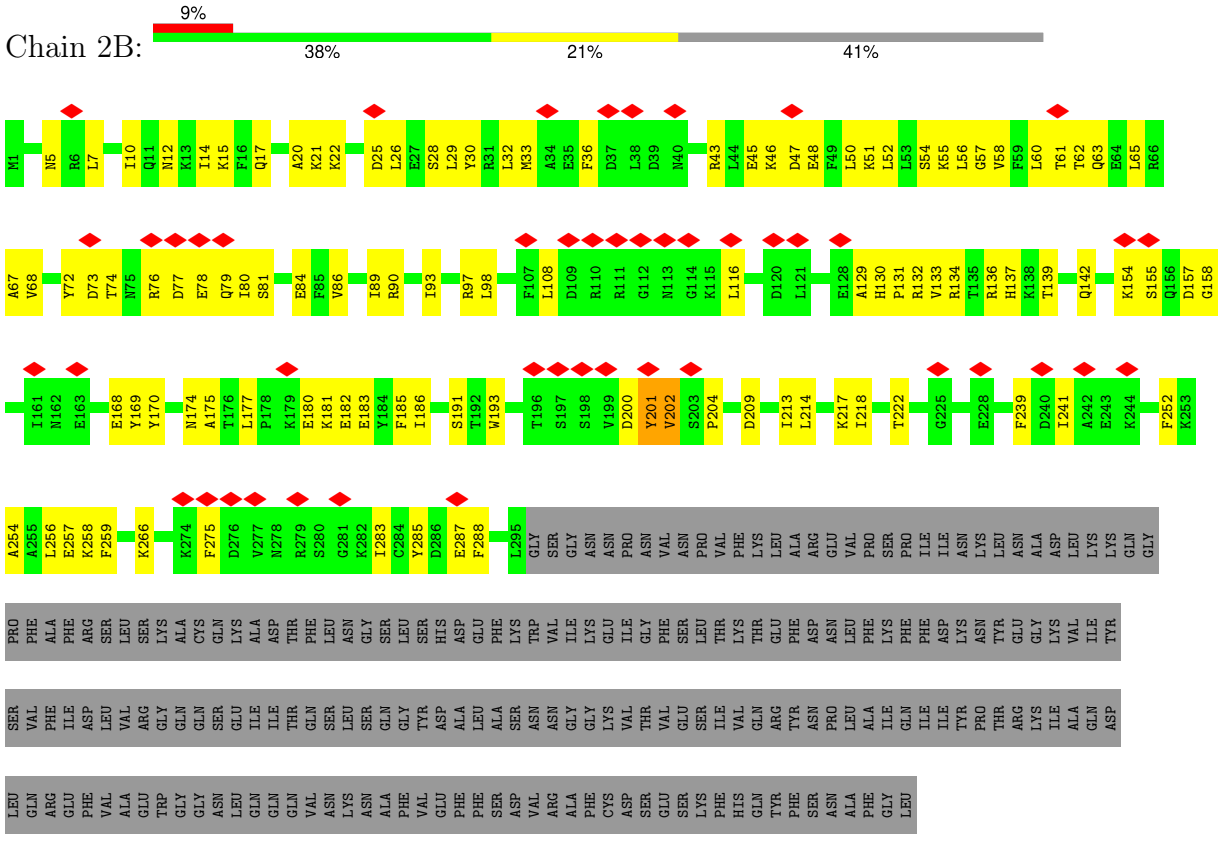
• Molecule 16: RIB57

Chain 1B:



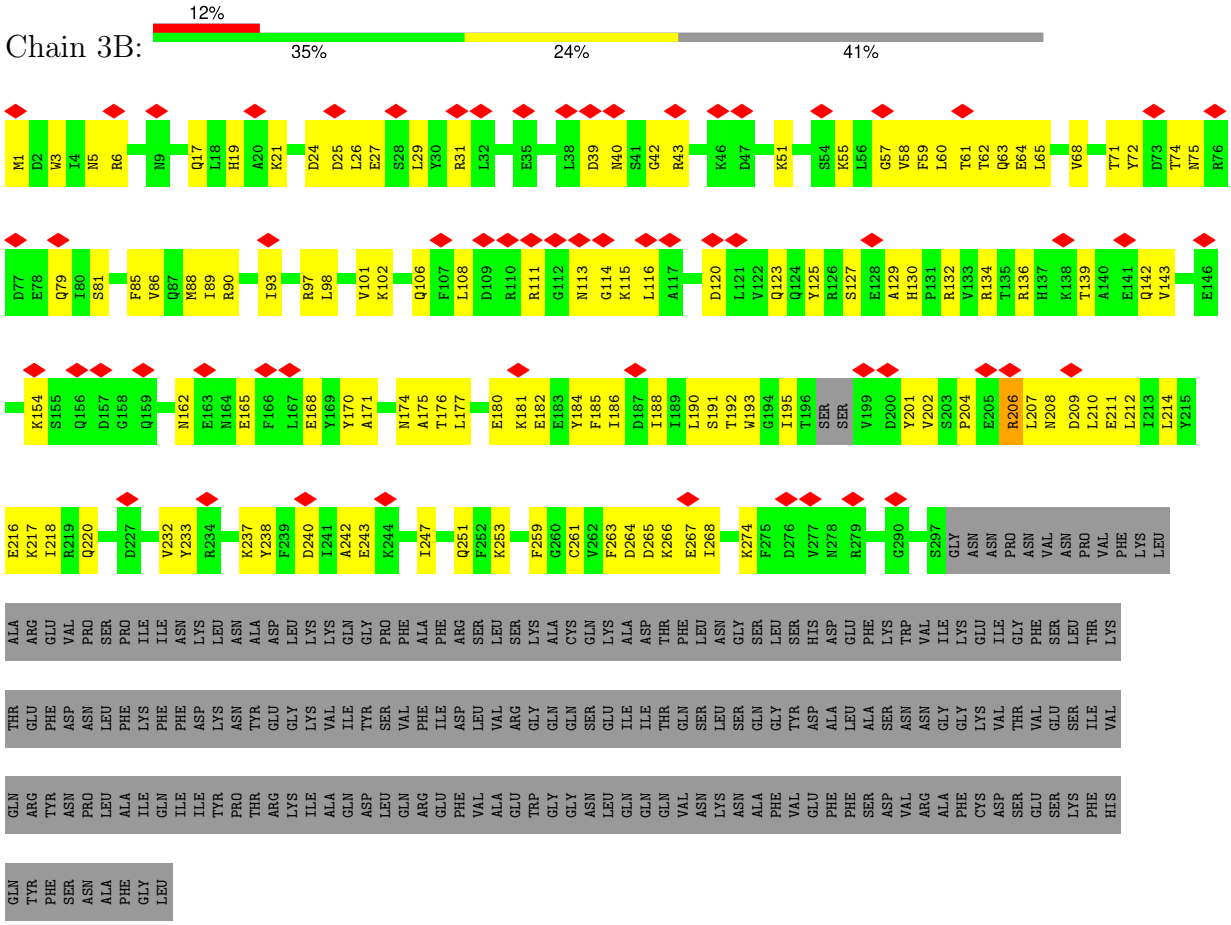
• Molecule 16: RIB57

Chain 2B:



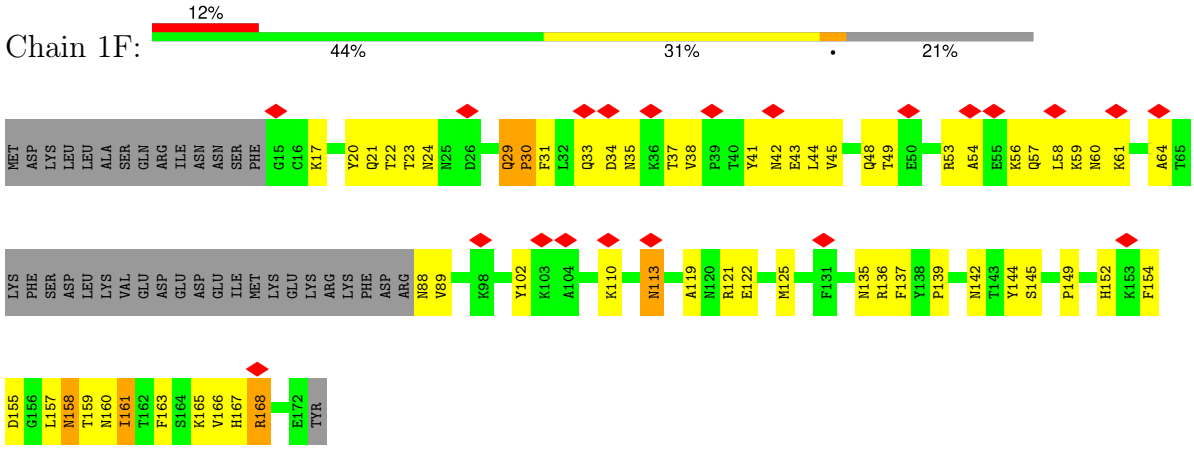
• Molecule 16: RIB57

Chain 3B:



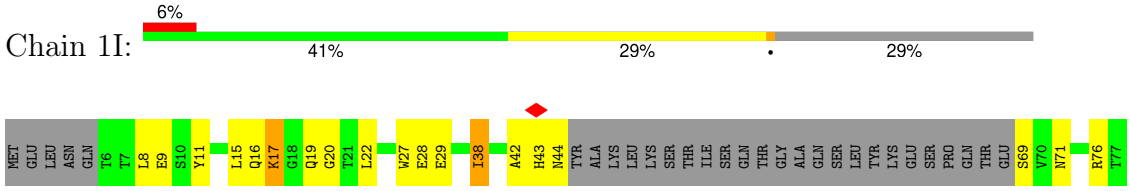
• Molecule 17: CFAP182A

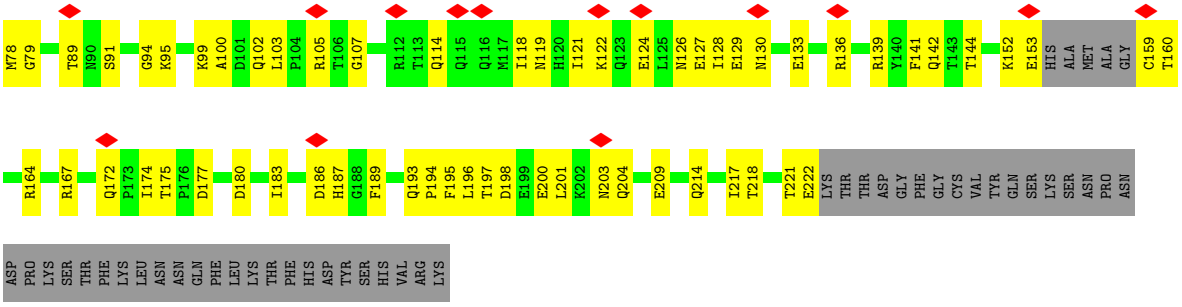
Chain 1F:



• Molecule 18: CFAP143

Chain 1I:

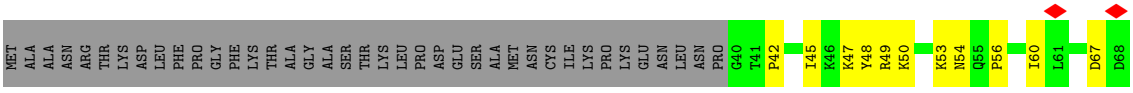


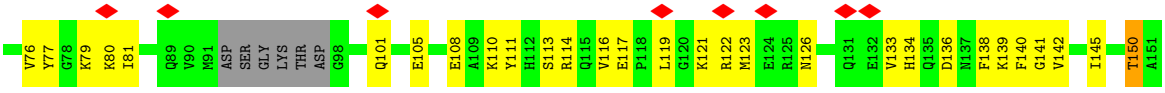


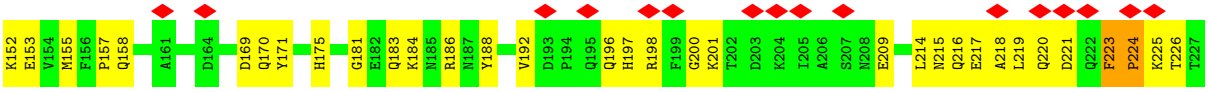
• Molecule 19: CFAP21A

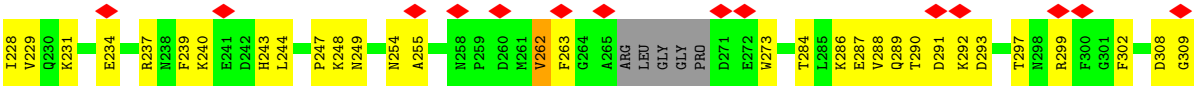
Chain 1J:

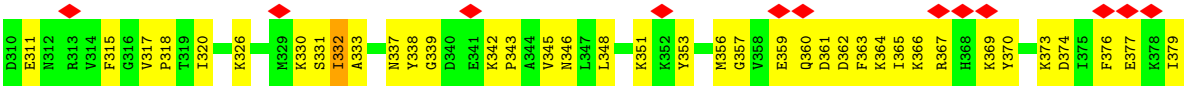


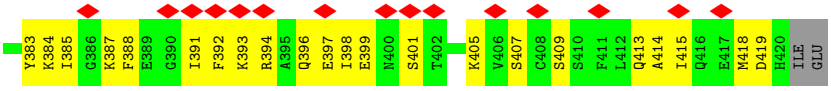






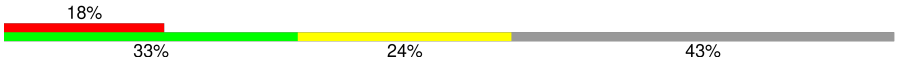


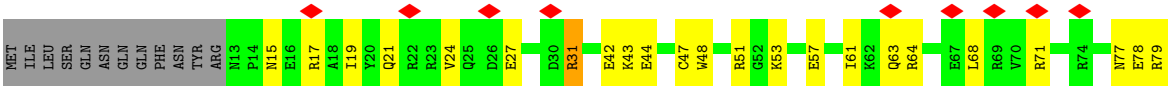


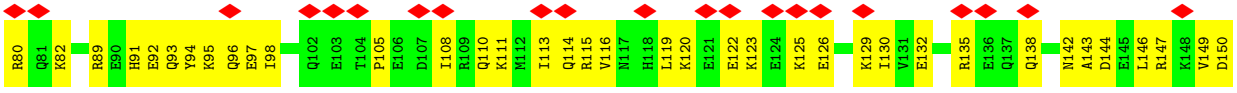


• Molecule 20: CFAP53

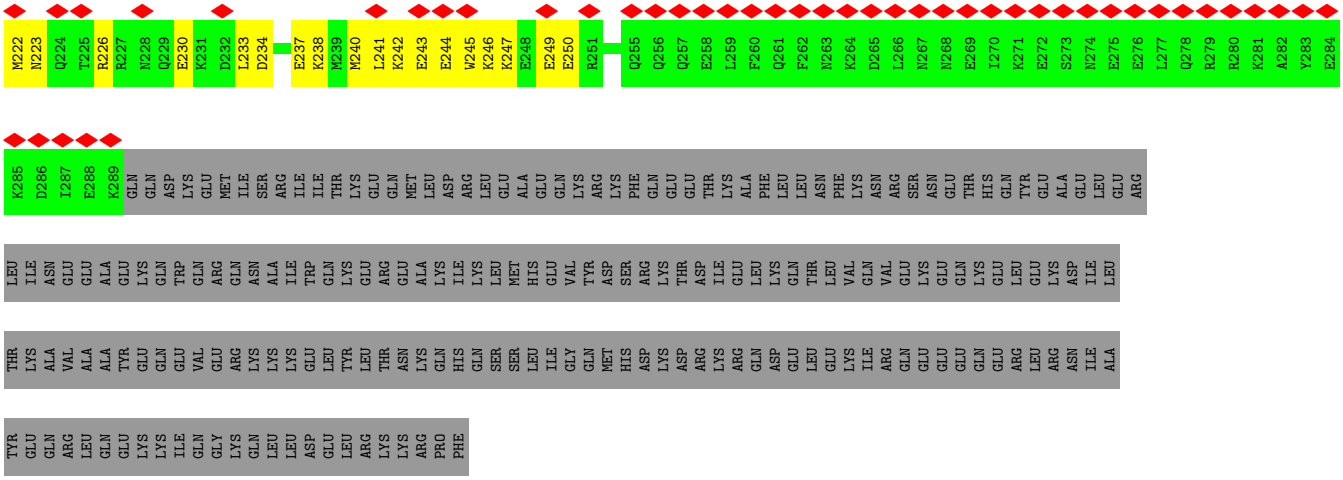
Chain 1K:





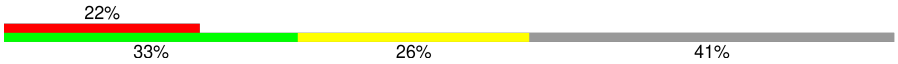


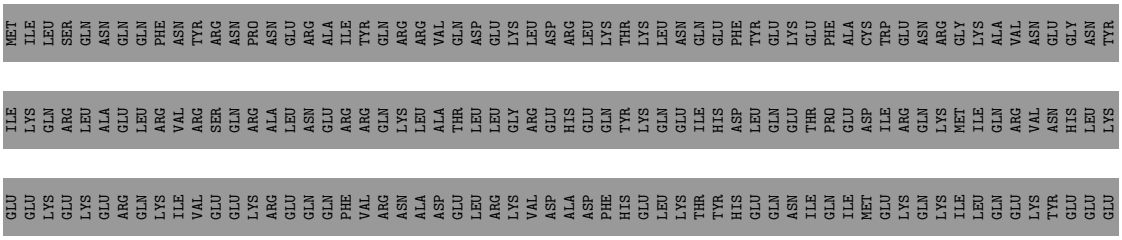


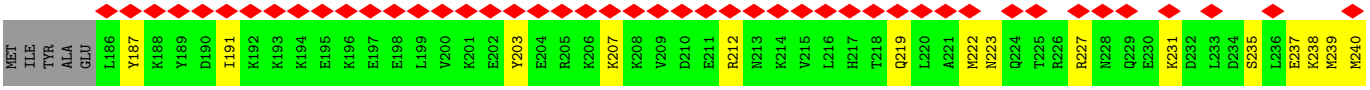


• Molecule 20: CFAP53

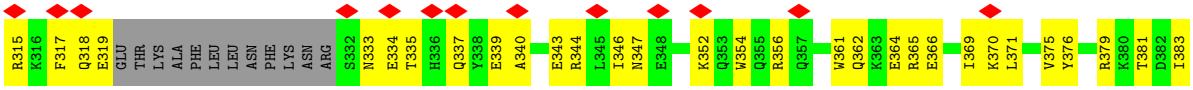
Chain 2K:

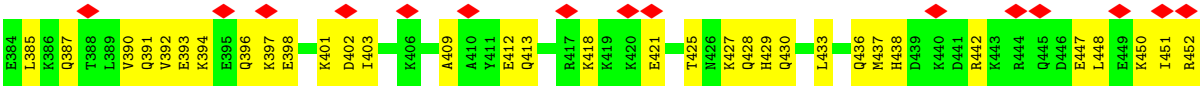


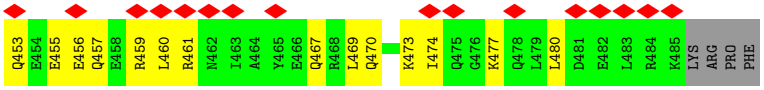








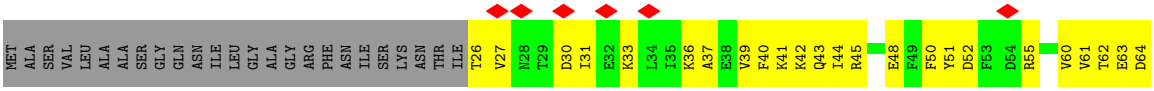


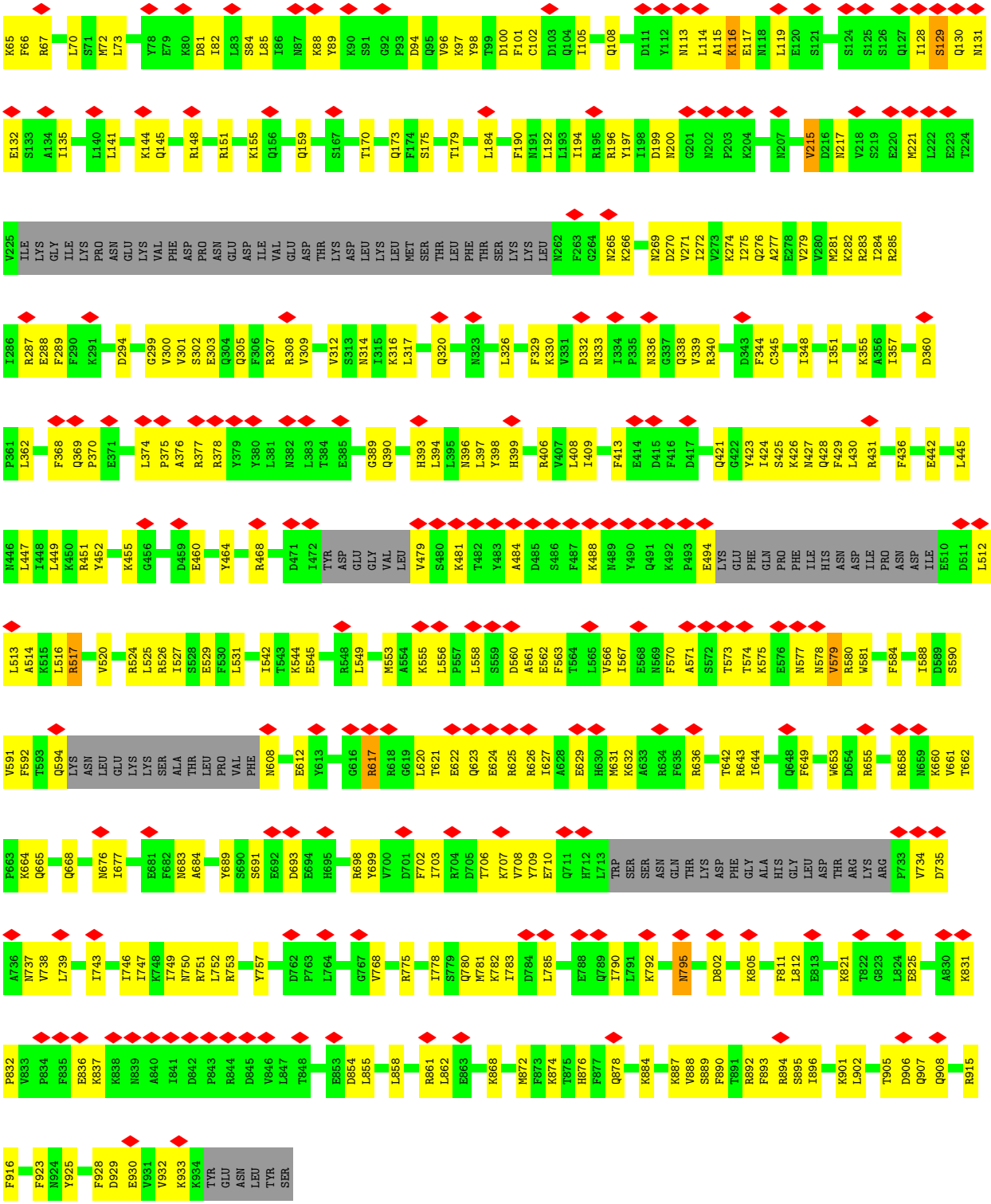


• Molecule 21: CFAP115

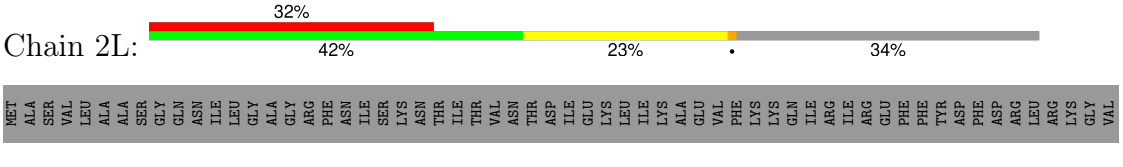
Chain 1L:

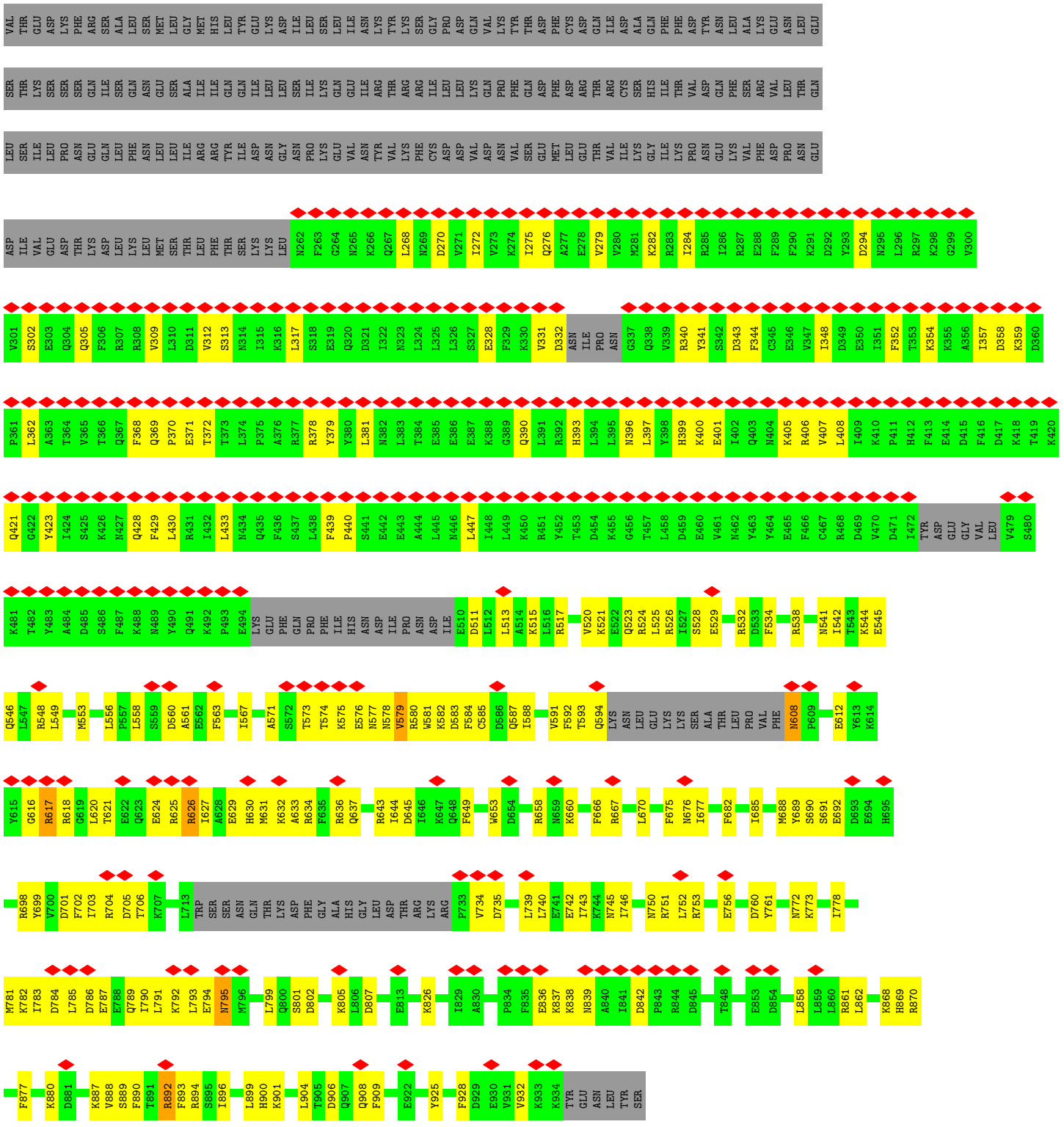






• Molecule 21: CFAP115

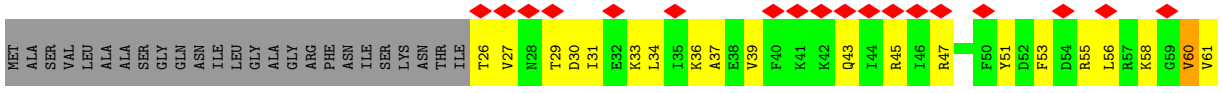


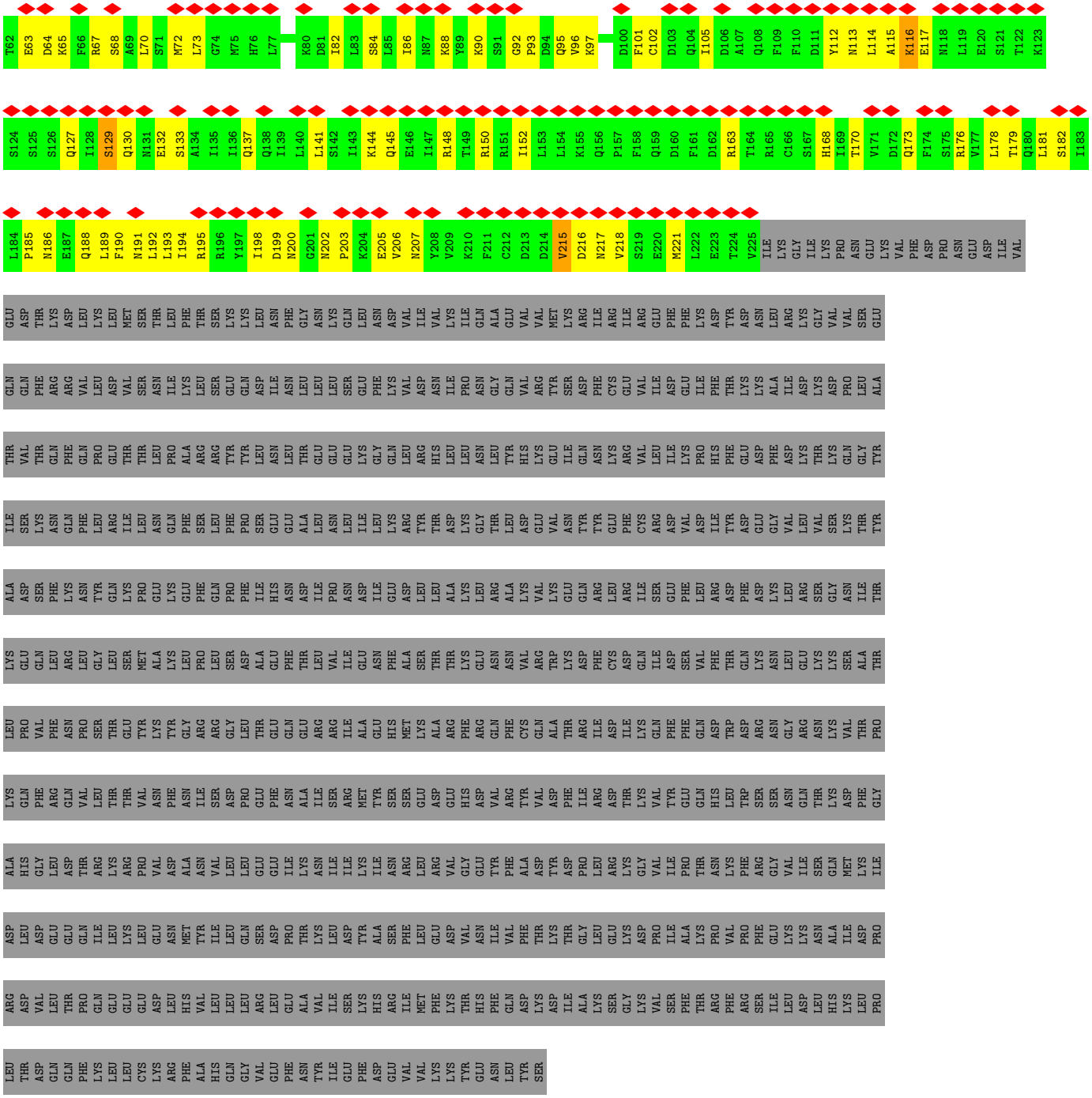


• Molecule 21: CFAP115

Chain 3L:



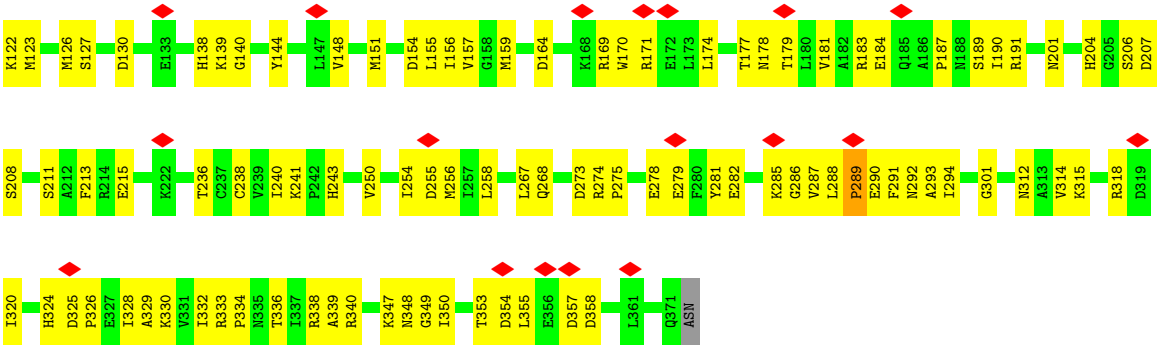




• Molecule 22: Nucleoside diphosphate kinase

Chain 1M:

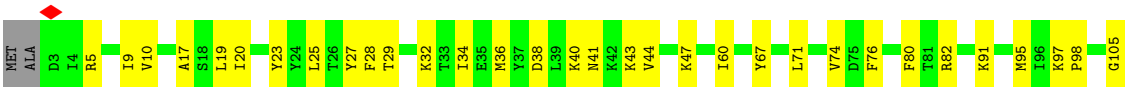




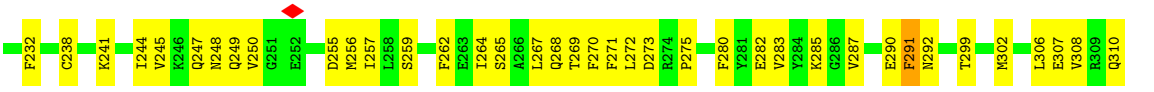
• Molecule 22: Nucleoside diphosphate kinase

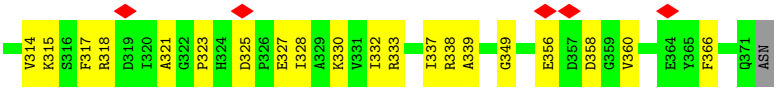
Chain 2M:







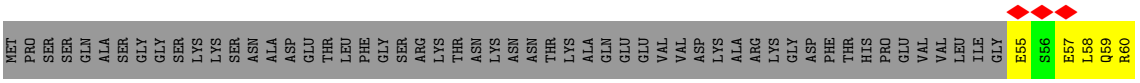


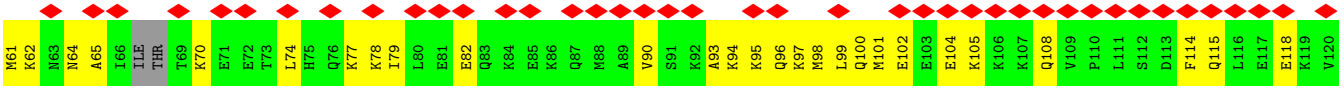


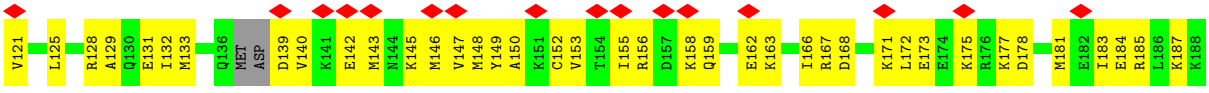
• Molecule 23: Cilia- and flagella-associated protein 45

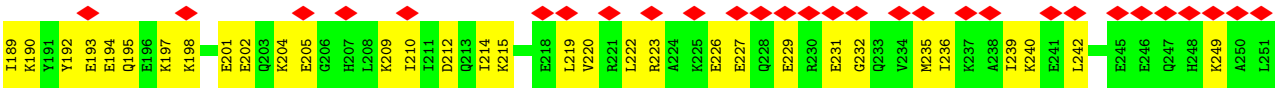
Chain 1O:

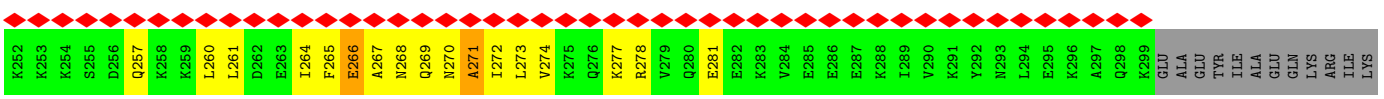


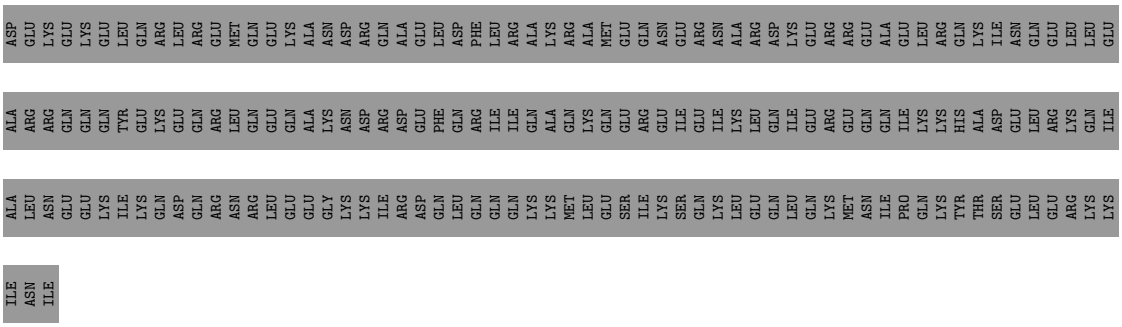






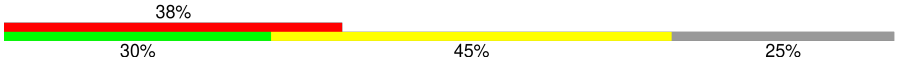


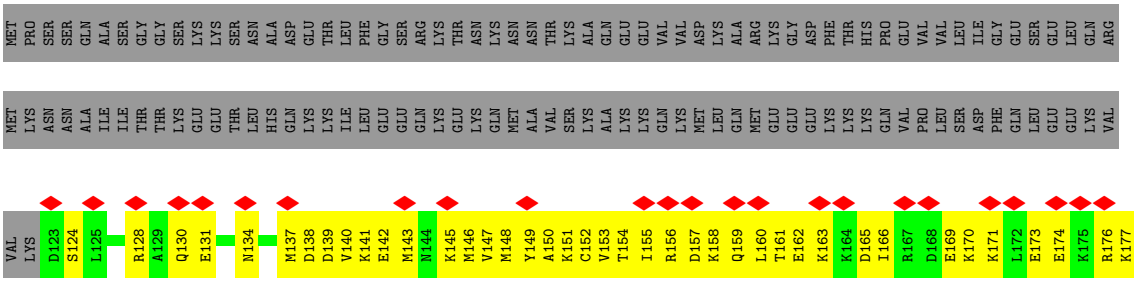




• Molecule 23: Cilia- and flagella-associated protein 45

Chain 2O:



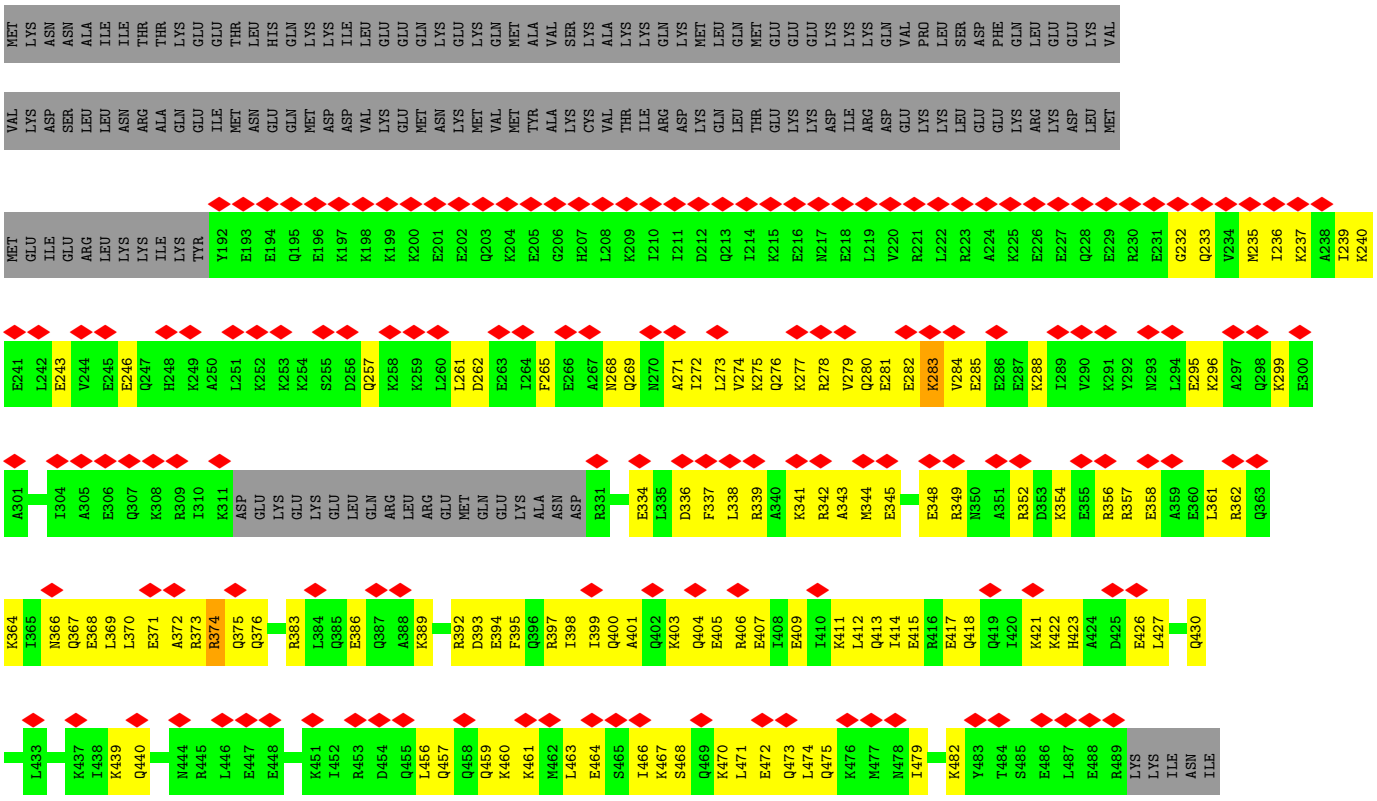


• Molecule 23: Cilia- and flagella-associated protein 45

Chain 3O:

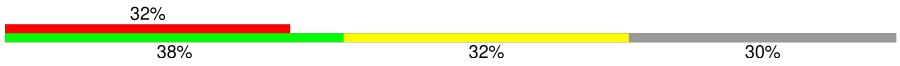


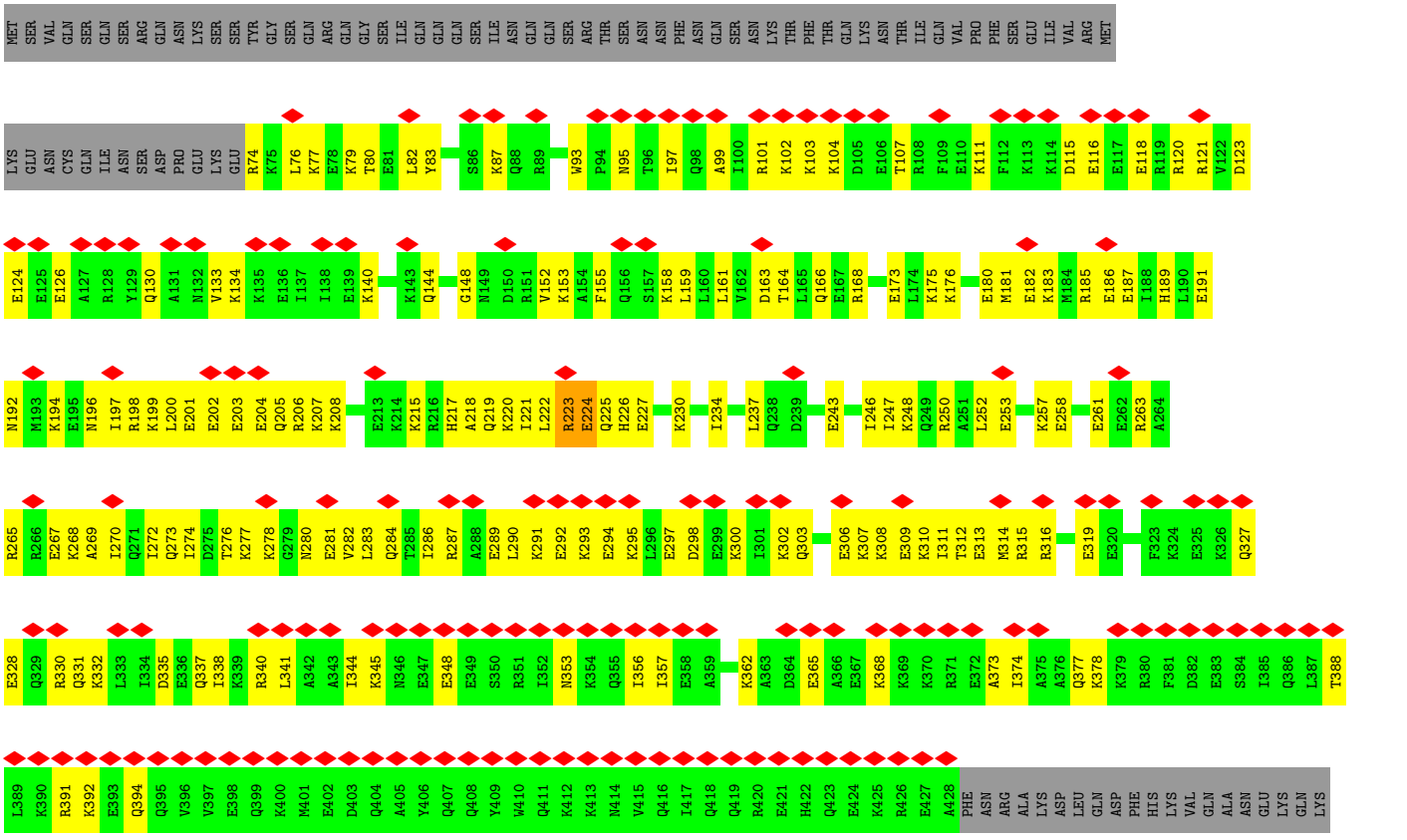




• Molecule 24: CFAP210

Chain 1P:



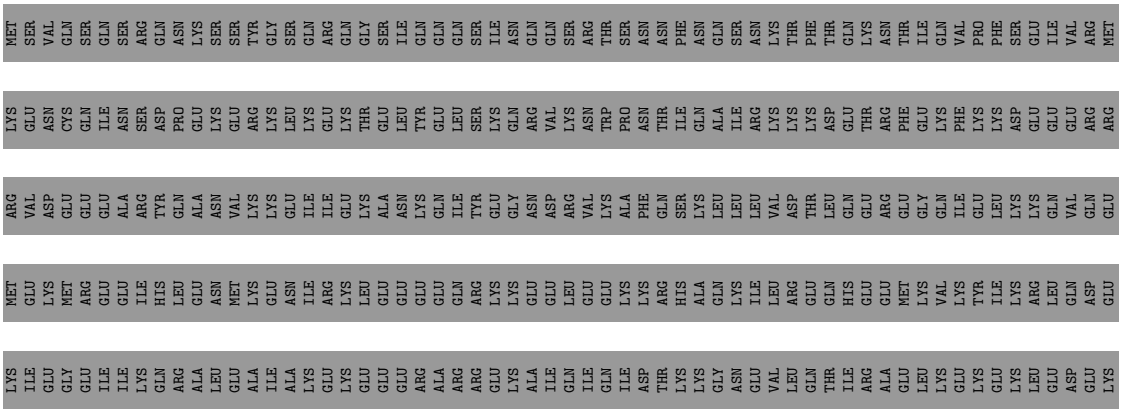


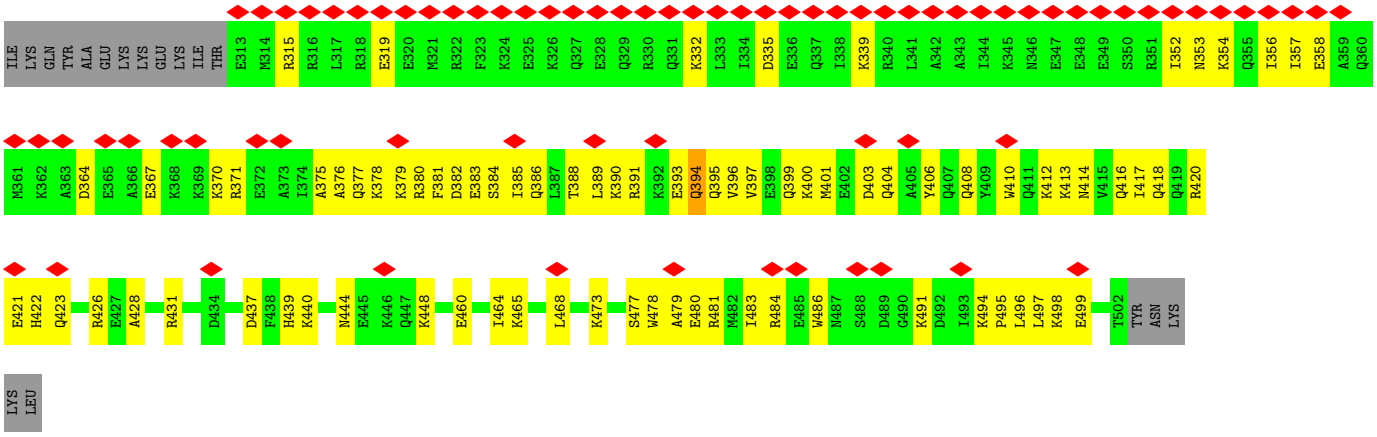


• Molecule 24: CFAP210

Chain 2P:





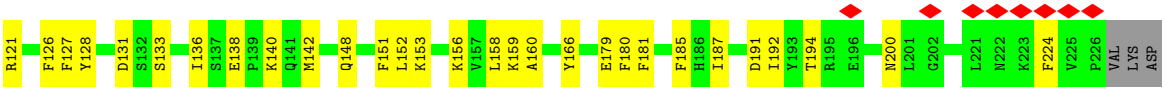


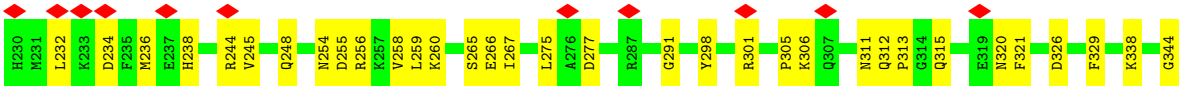
• Molecule 25: RIB72B

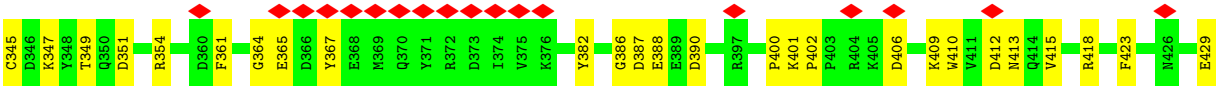
Chain 1R:

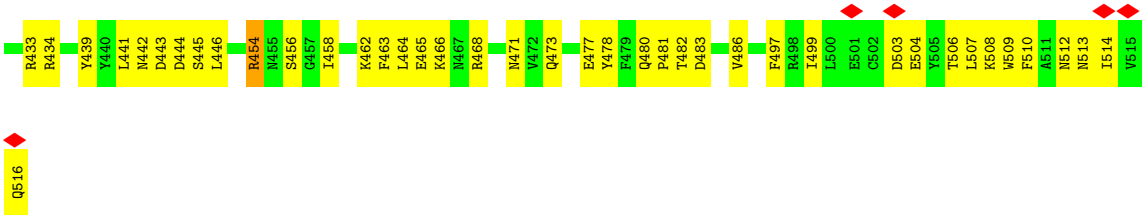








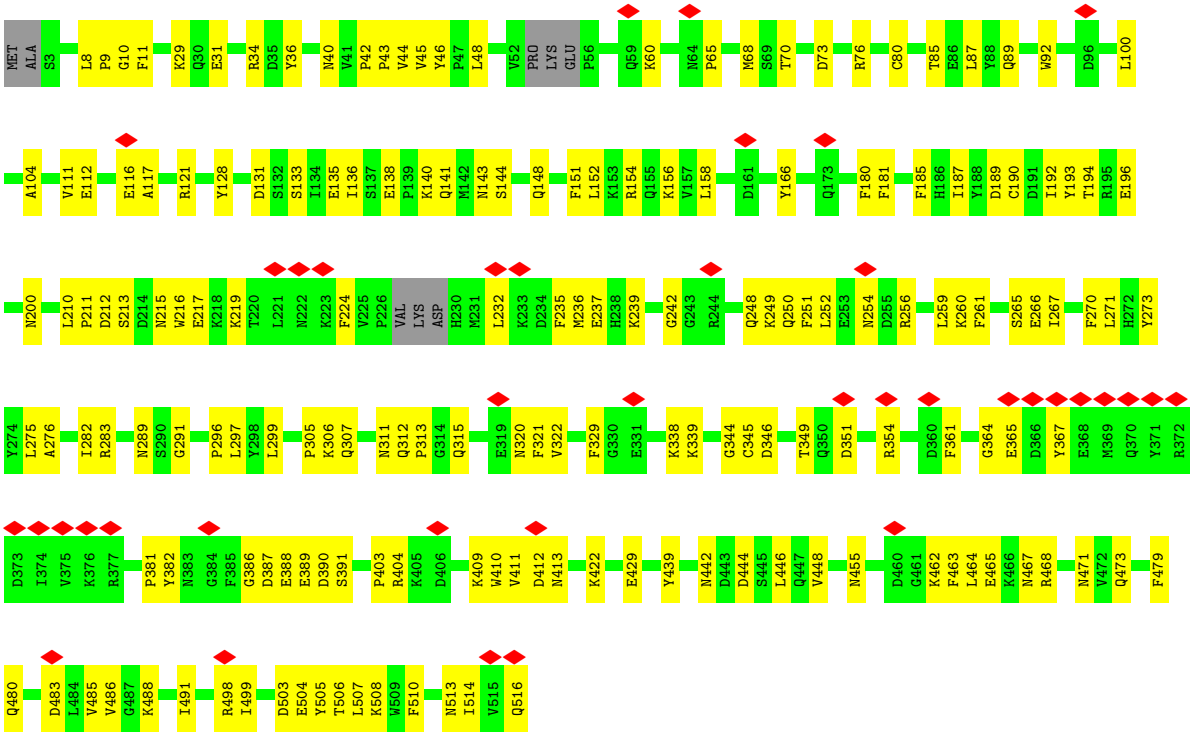




• Molecule 25: RIB72B

Chain 2R:

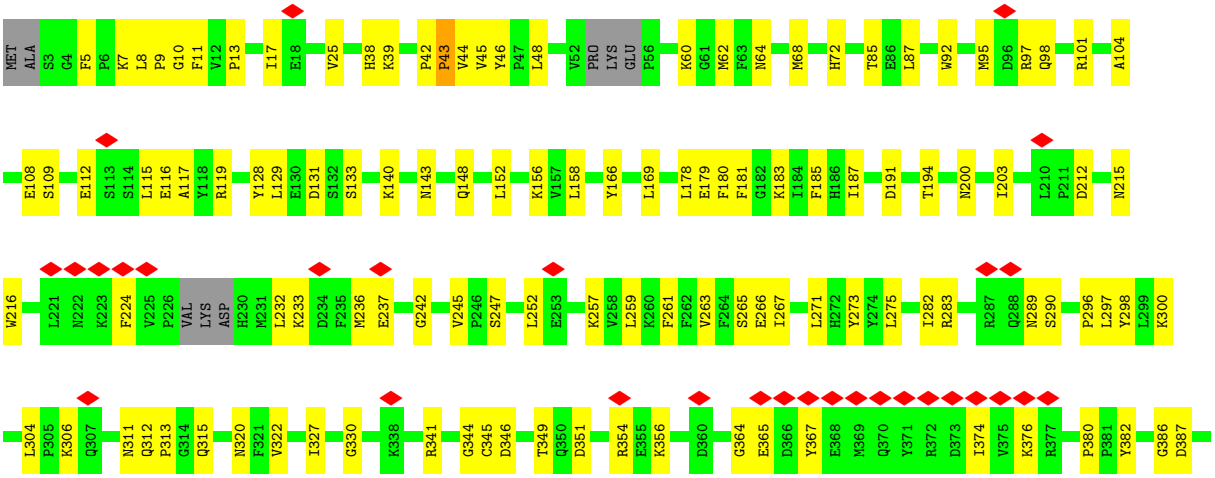


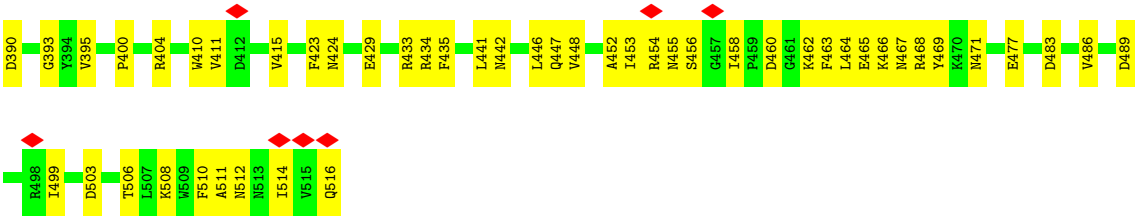


• Molecule 25: RIB72B

Chain 3R:



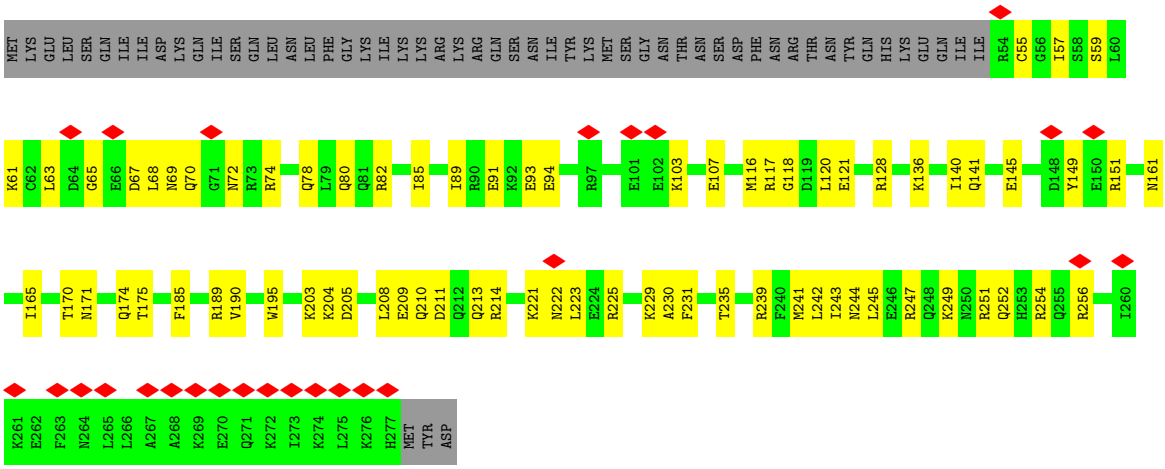




• Molecule 26: Protofilament ribbon protein

Chain 1W:

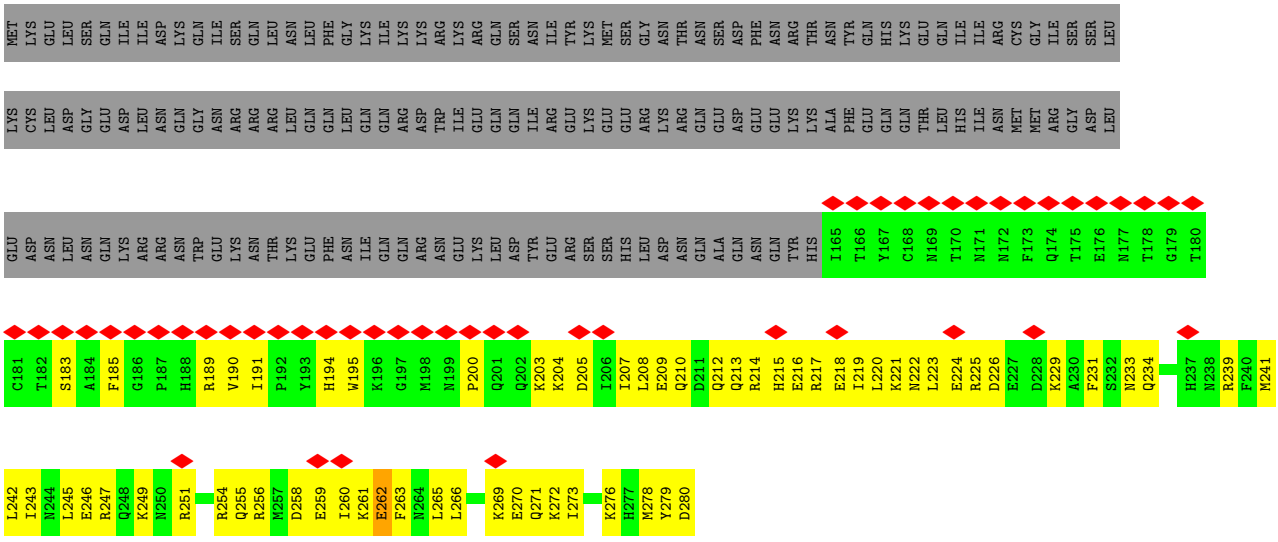




• Molecule 26: Protofilament ribbon protein

Chain 2W:

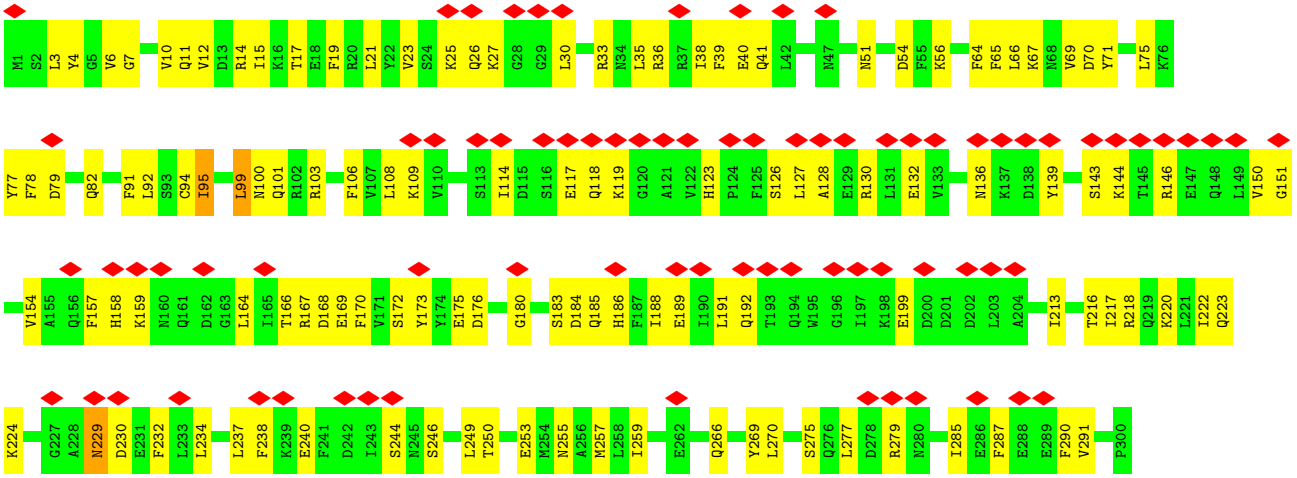




• Molecule 27: RIB35

Chain 2C:

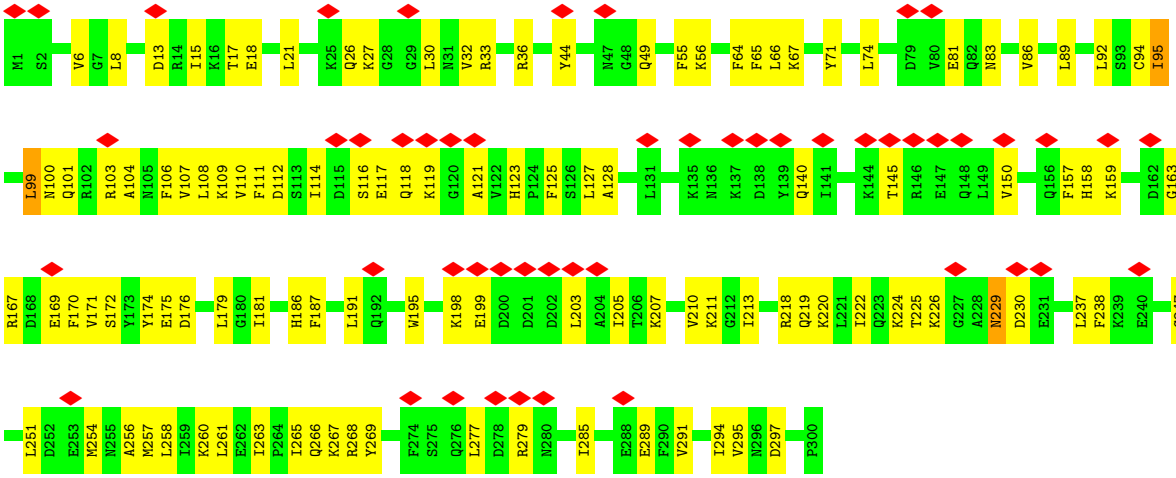




• Molecule 27: RIB35

Chain 3C:

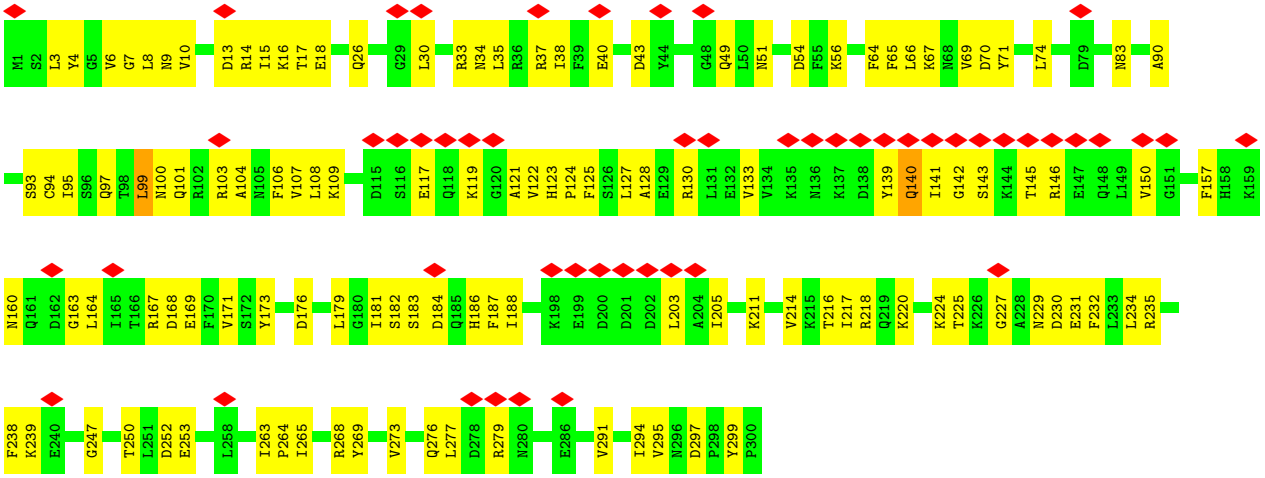




• Molecule 27: RIB35

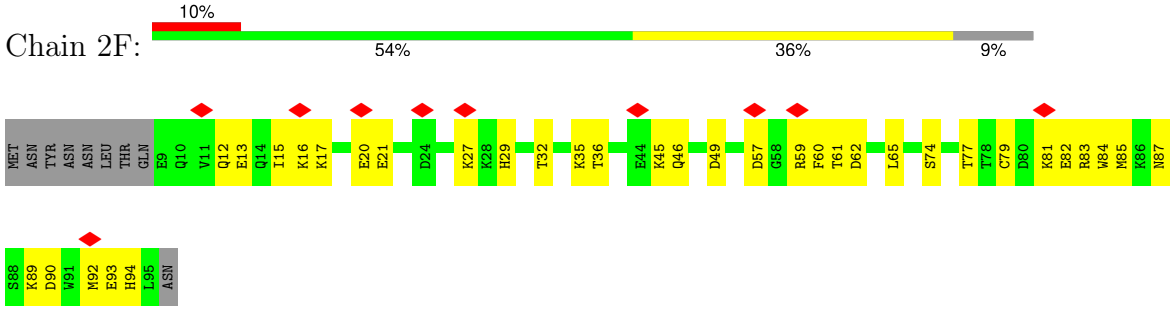
Chain 4C:





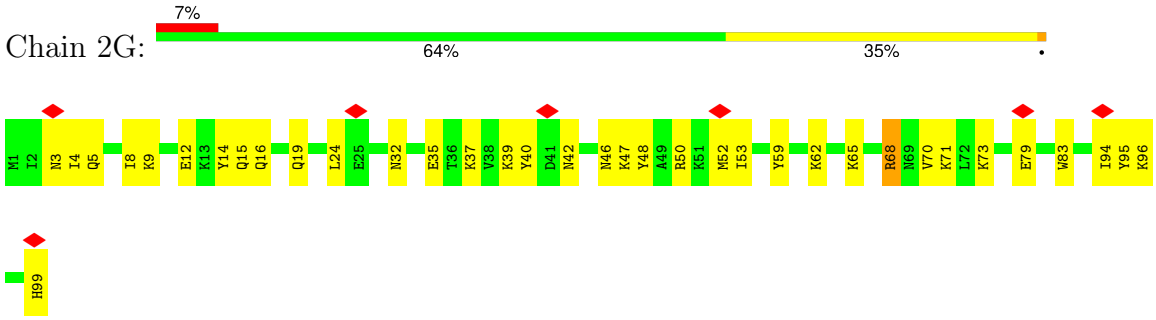
• Molecule 28: CFAP182B

Chain 2F:



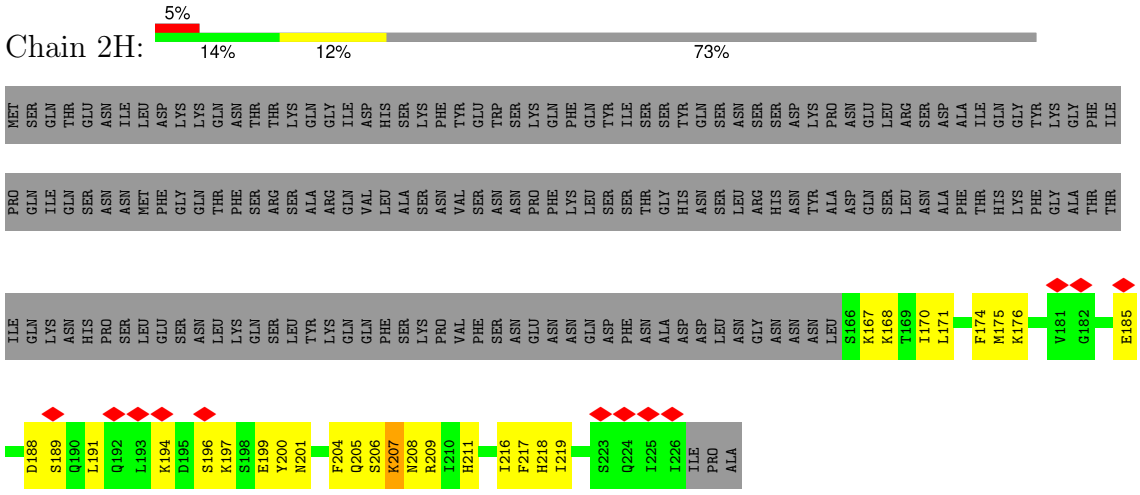
• Molecule 29: Flagellar FliJ protein

Chain 2G:



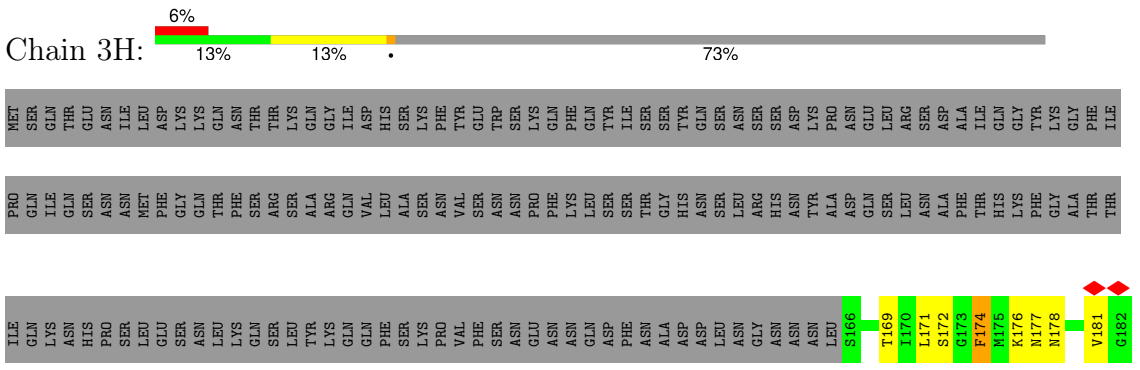
• Molecule 30: RIB27B

Chain 2H:



• Molecule 30: RIB27B

Chain 3H:

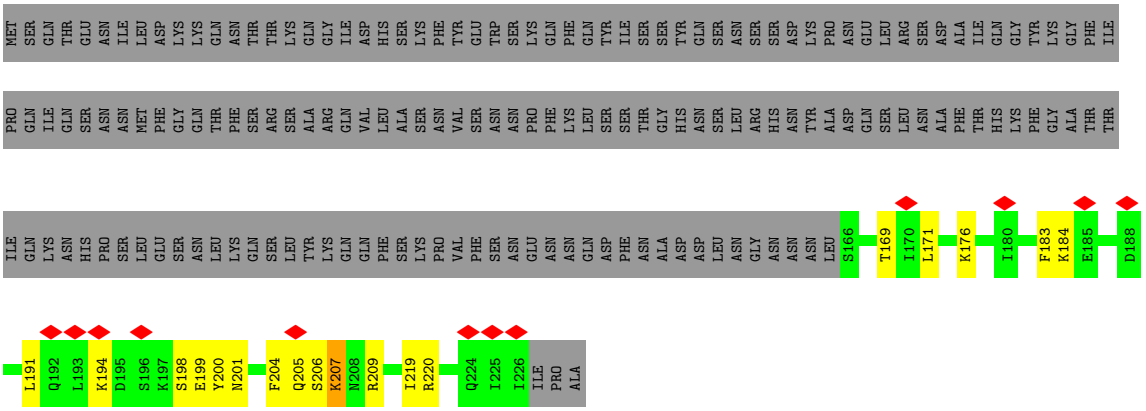




• Molecule 30: RIB27B

Chain 4H:

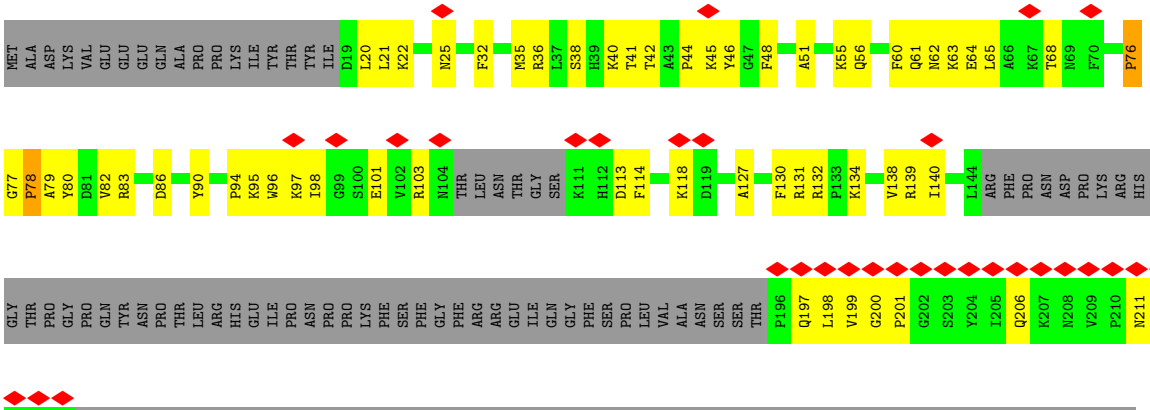




• Molecule 31: STPG2

Chain 2I:

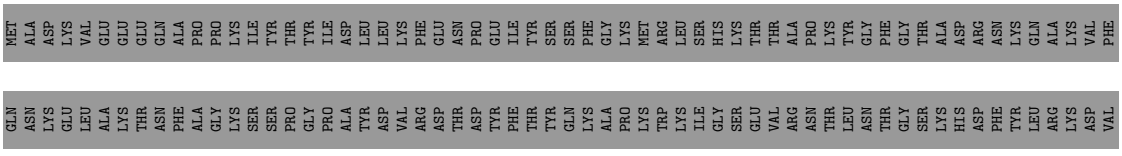


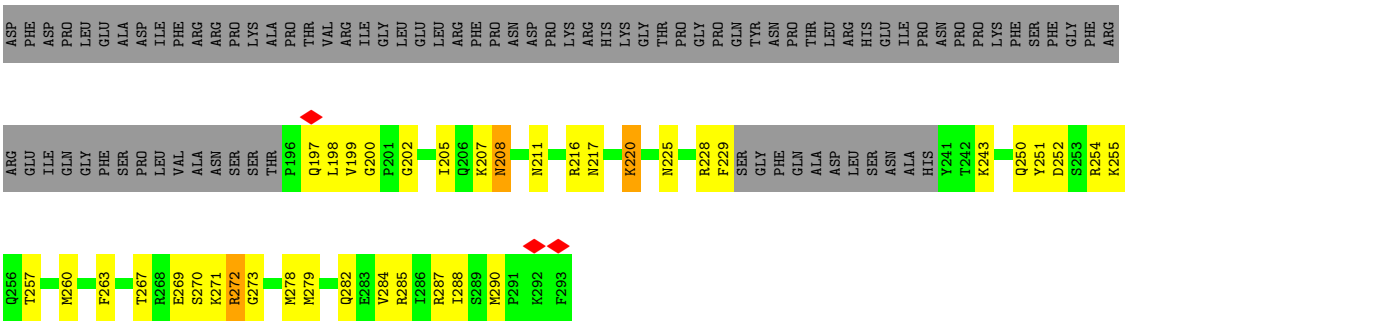


• Molecule 31: STPG2

Chain 3I:



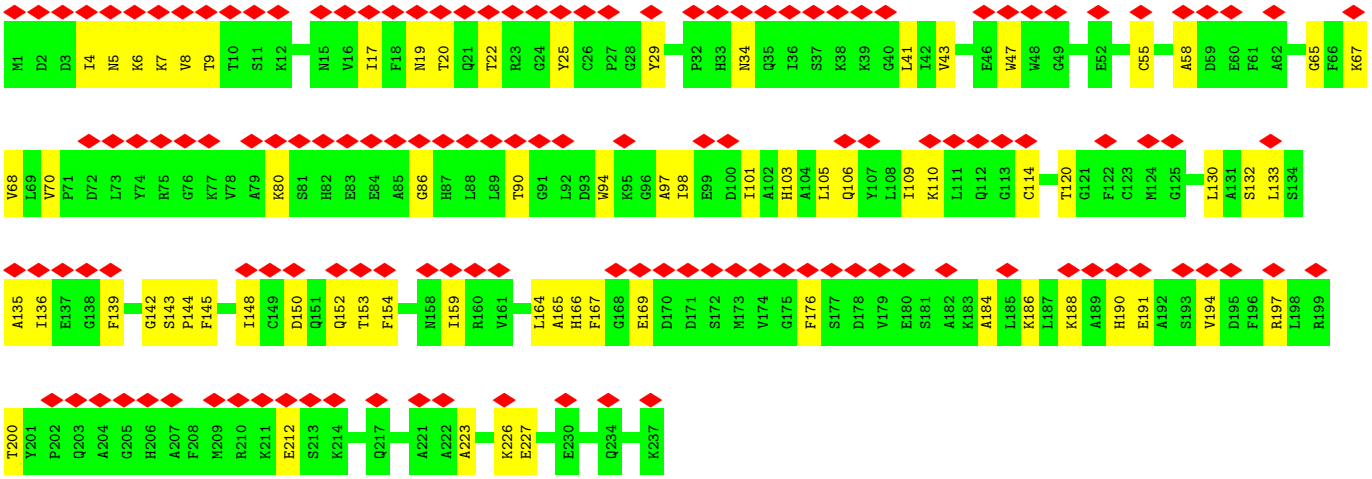




• Molecule 32: RIB26

Chain 3D:

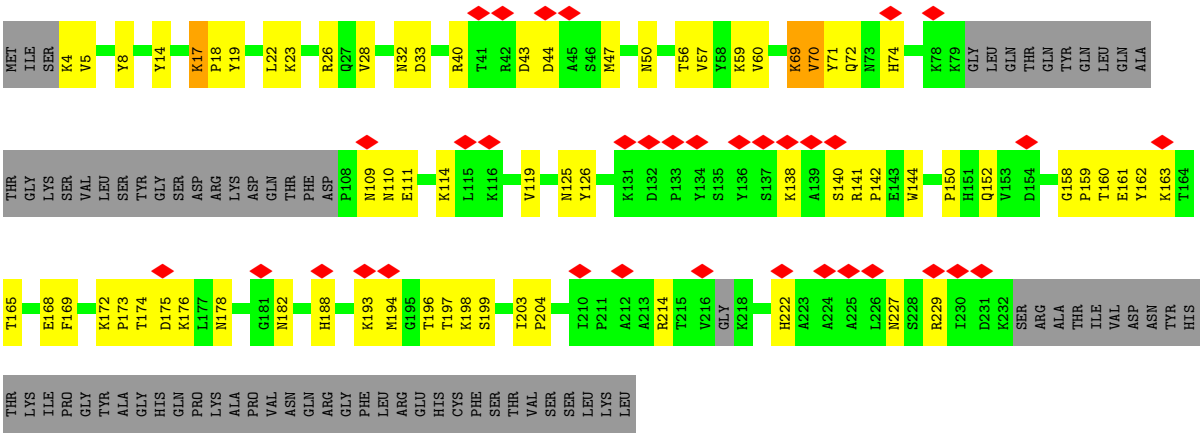




• Molecule 33: CFAP129

Chain 4F:

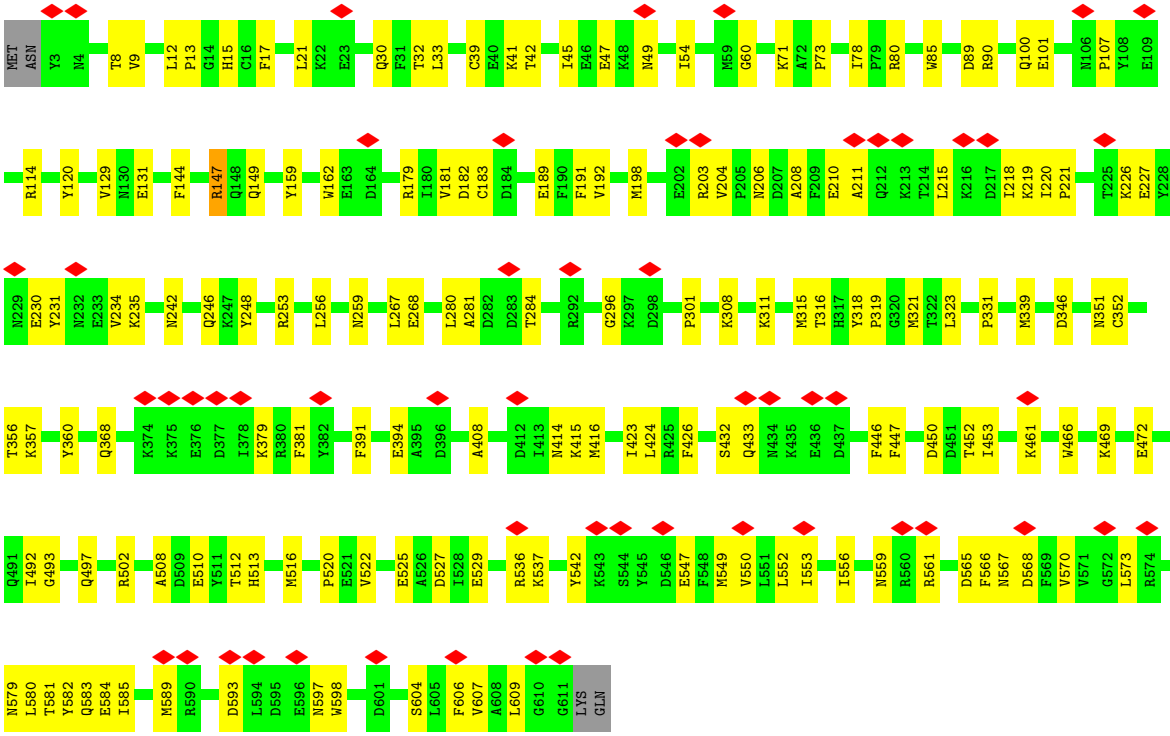




• Molecule 34: Flagellar microtubule protofilament ribbon protein

Chain 4R:

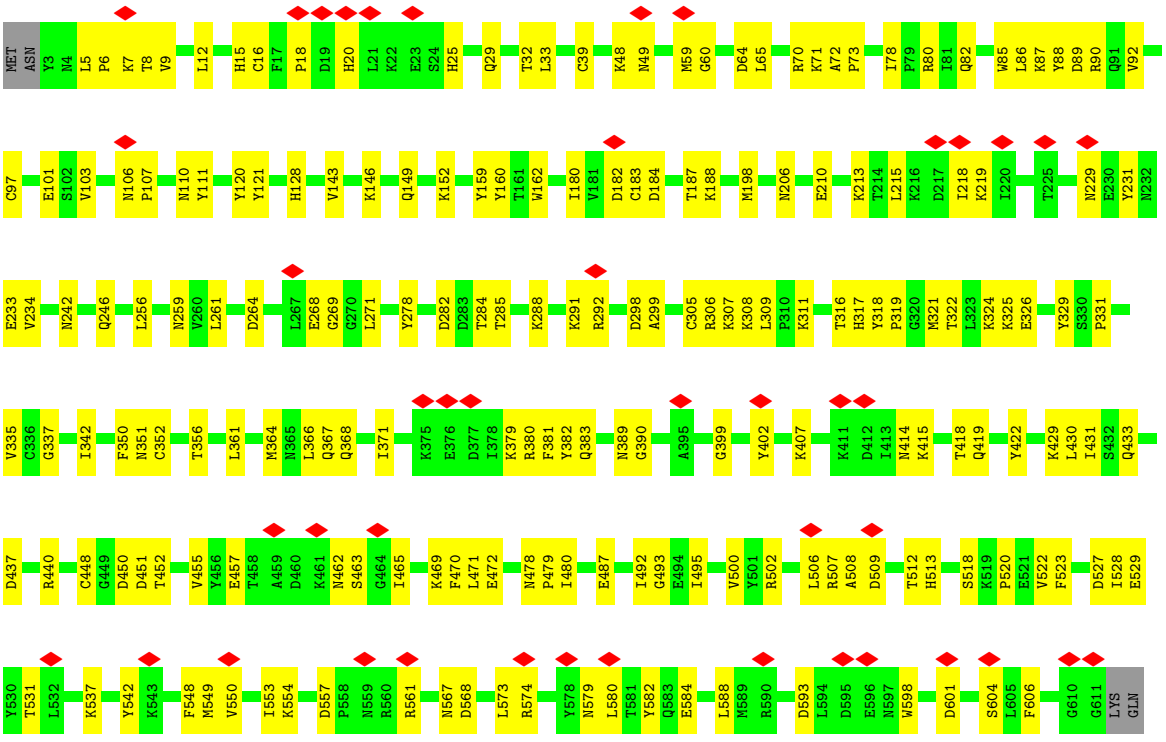




• Molecule 34: Flagellar microtubule protofilament ribbon protein

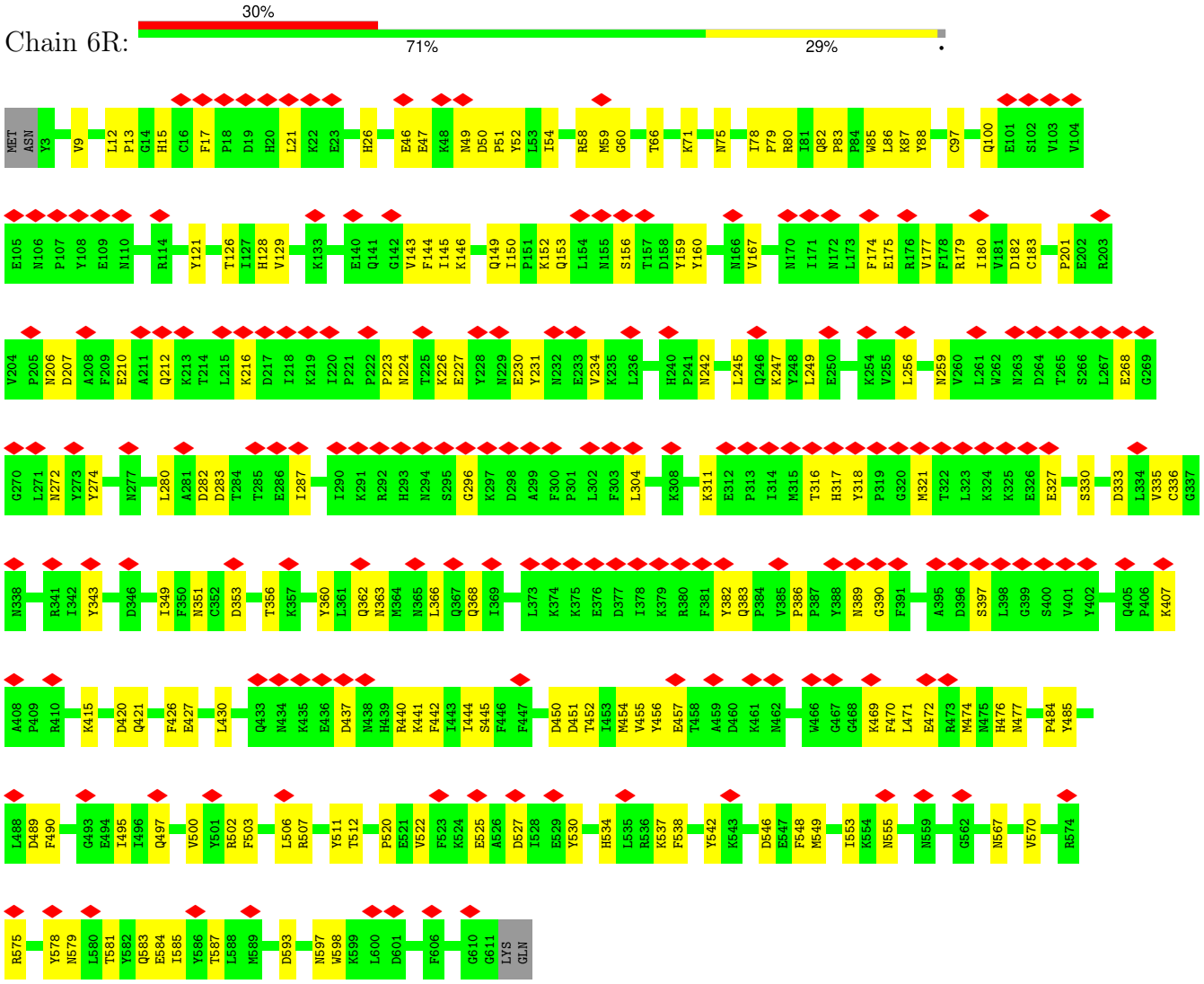
Chain 5R:





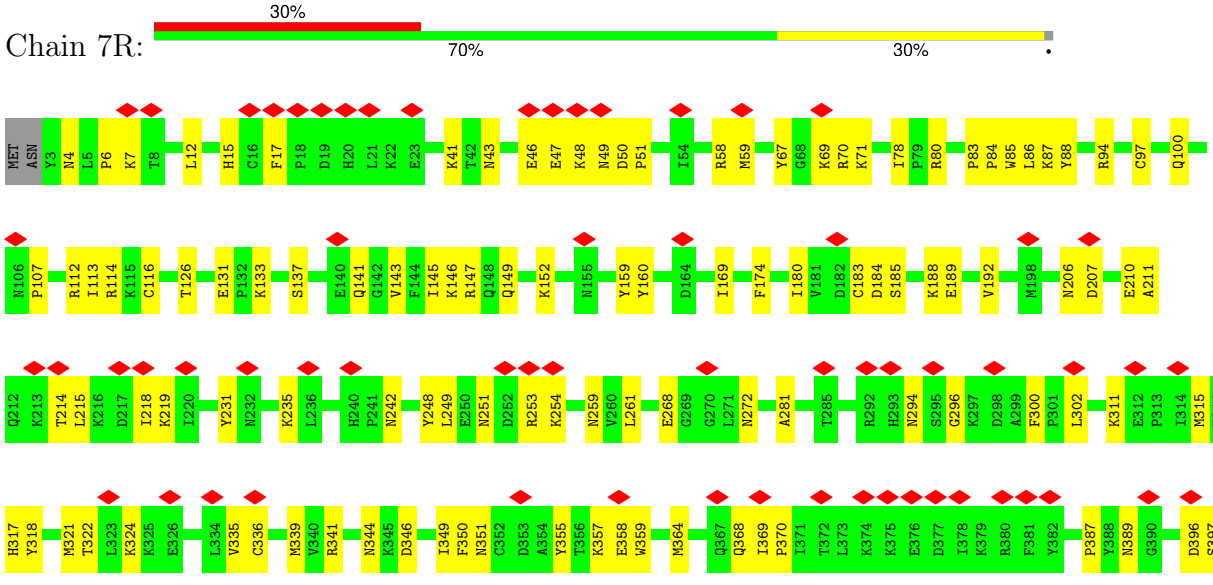
• Molecule 34: Flagellar microtubule protofilament ribbon protein

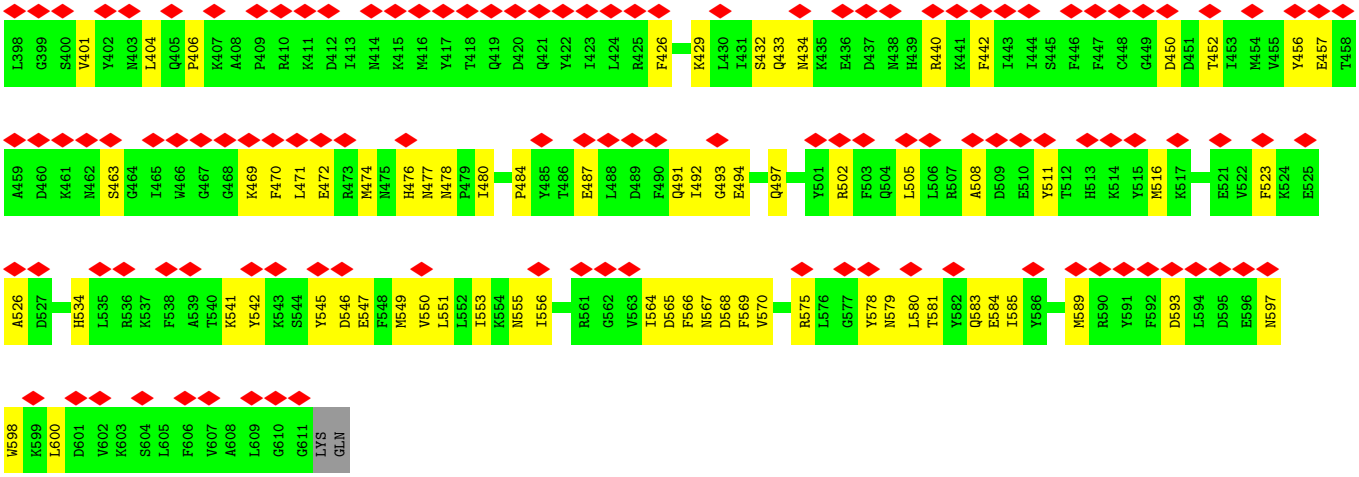
Chain 6R:



• Molecule 34: Flagellar microtubule protofilament ribbon protein

Chain 7R:

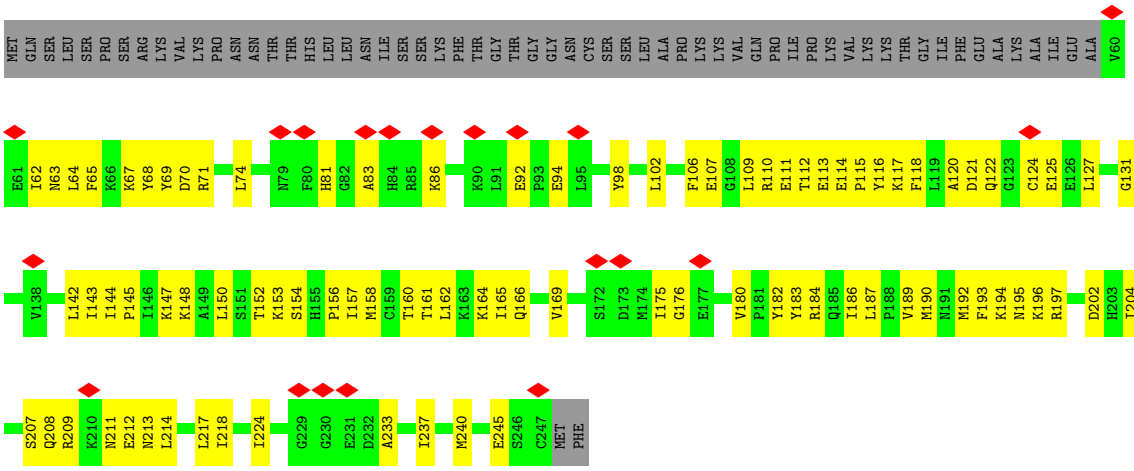




• Molecule 35: Parkin co-regulated protein PACRGB

Chain 4S:

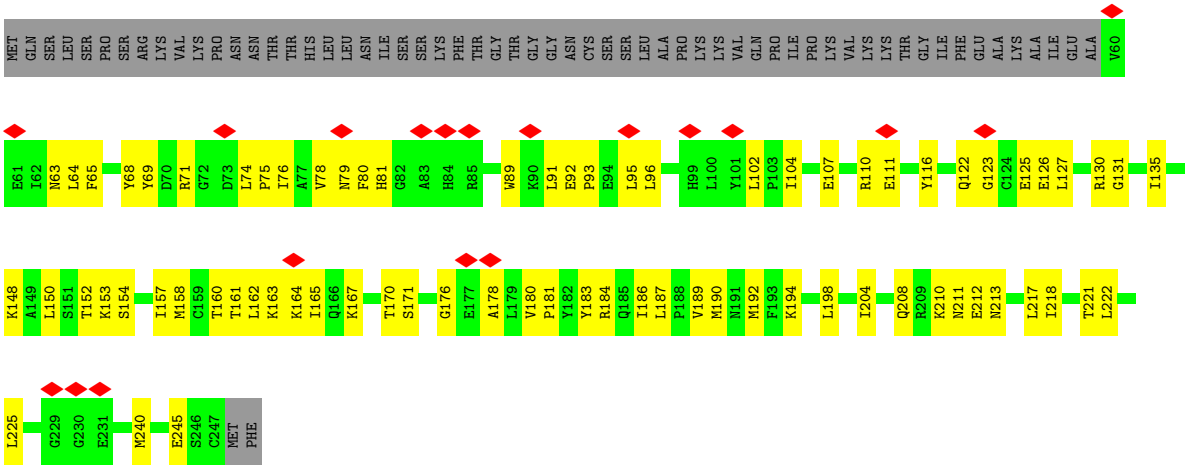




• Molecule 35: Parkin co-regulated protein PACRGB

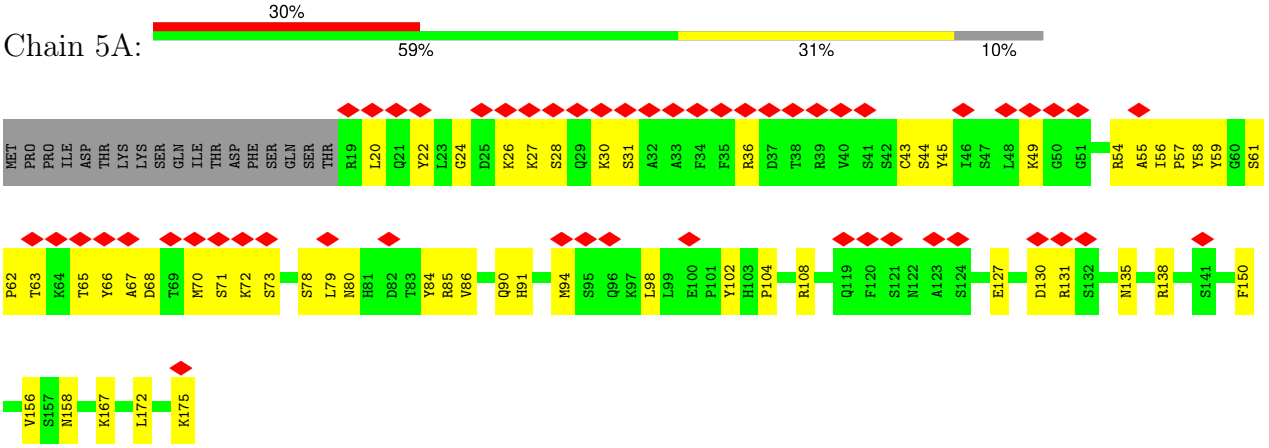
Chain 5S:





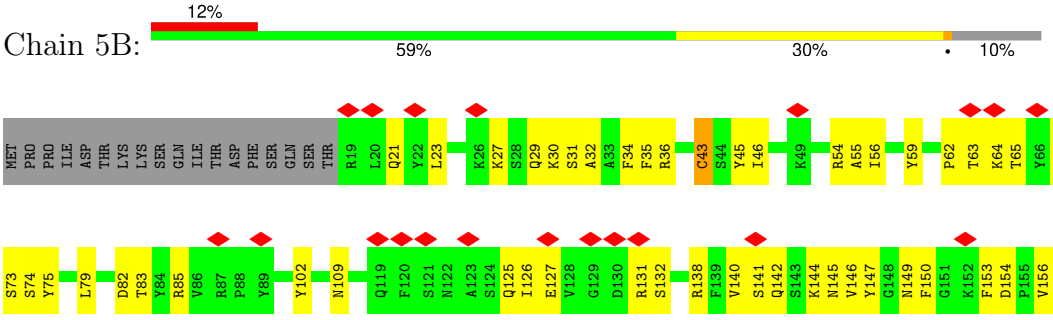
- Molecule 36: OJ2

Chain 5A:



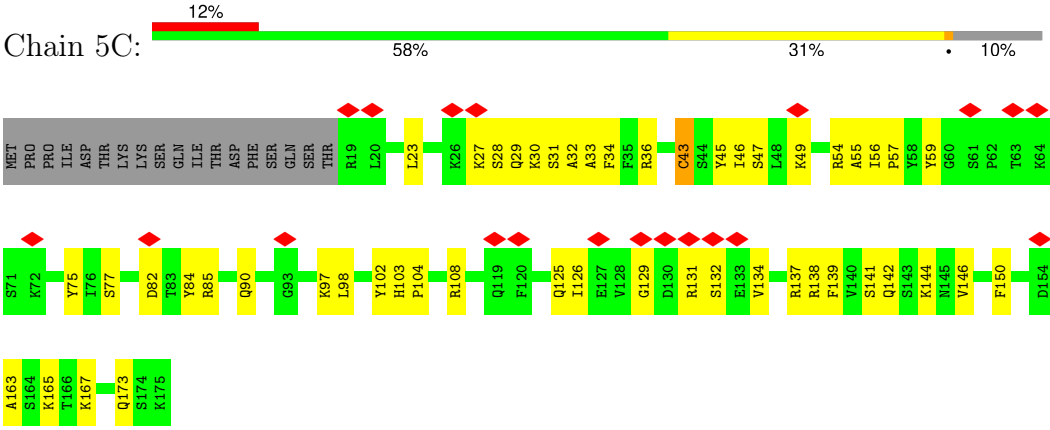
- Molecule 36: OJ2

Chain 5B:



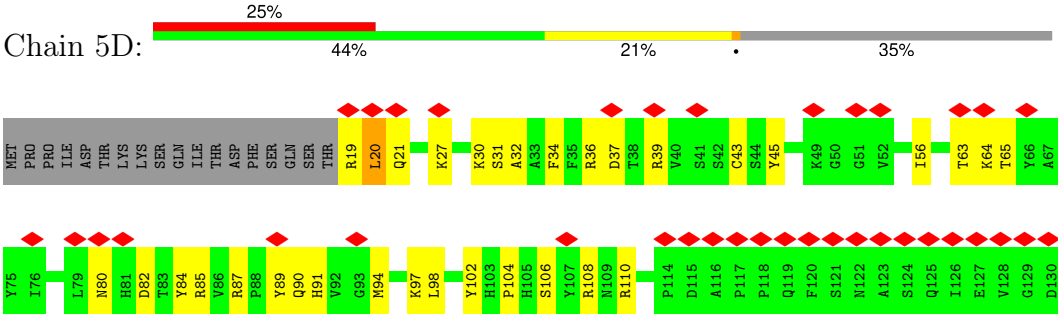
- Molecule 36: OJ2

Chain 5C:



- Molecule 36: OJ2

Chain 5D:

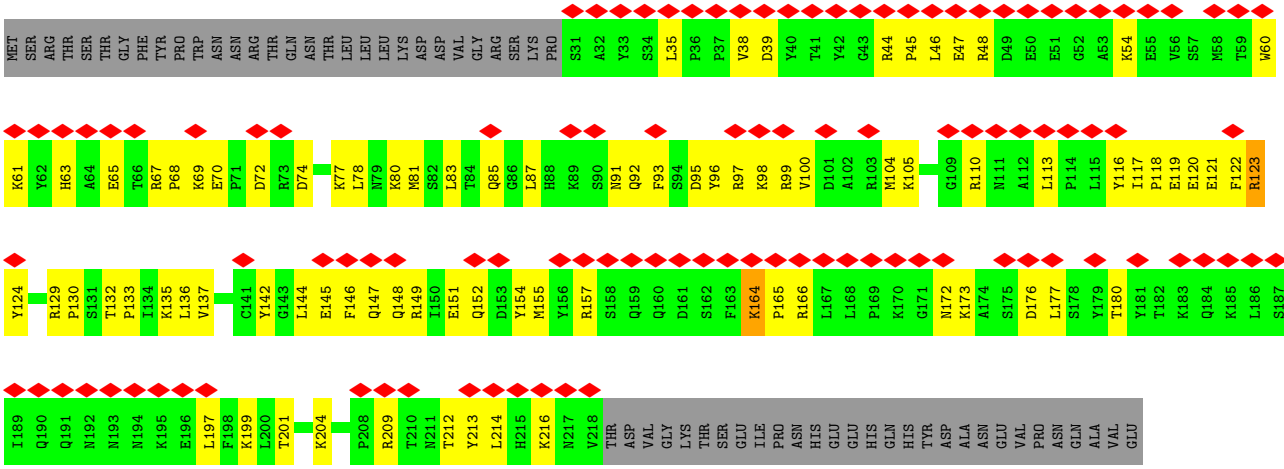




• Molecule 37: CFAP77A

Chain 5E:

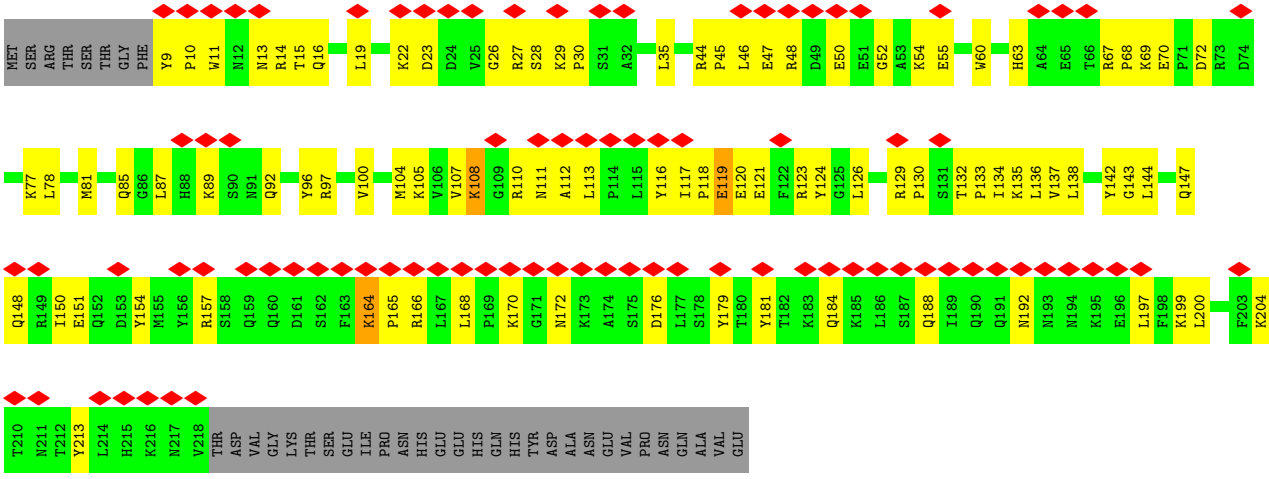




• Molecule 37: CFAP77A

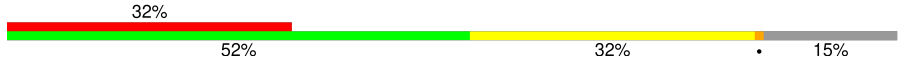
Chain 5F:

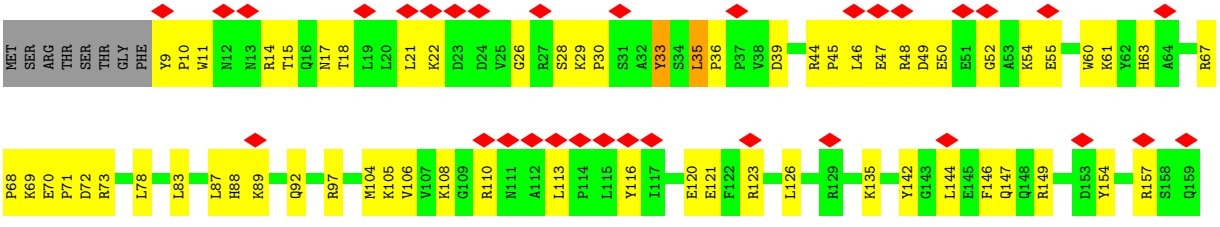


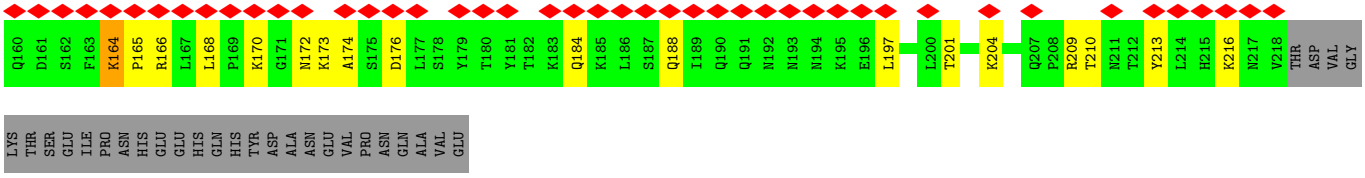


• Molecule 37: CFAP77A

Chain 5G:

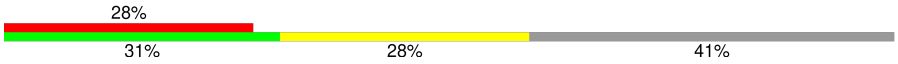


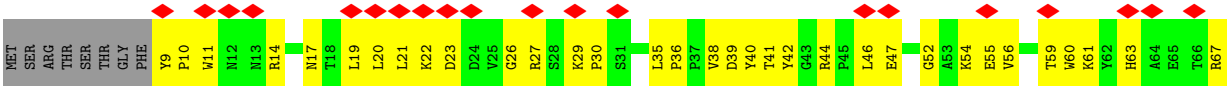


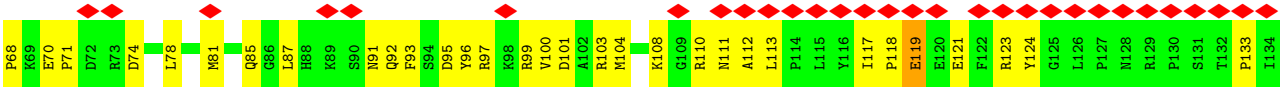


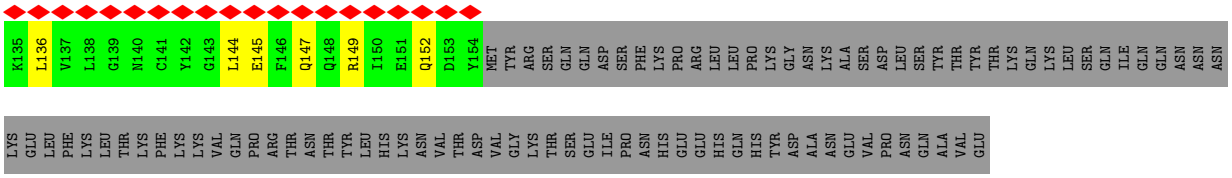
• Molecule 37: CFAP77A

Chain 5H:





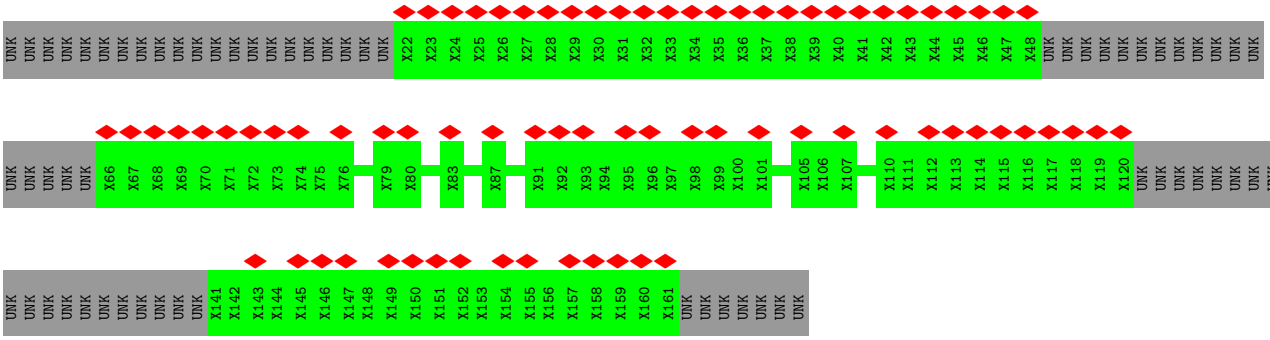




• Molecule 38: OJ3

Chain 5I:

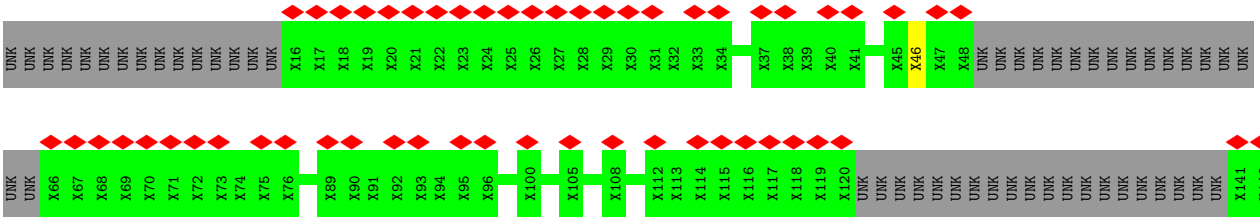


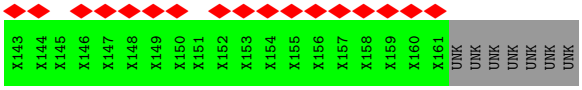


• Molecule 38: OJ3

Chain 5J:



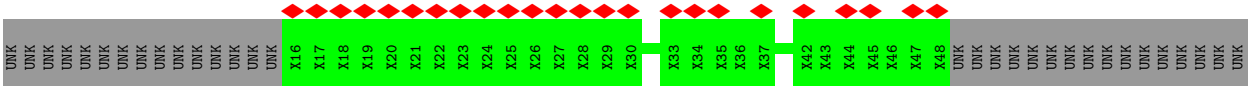


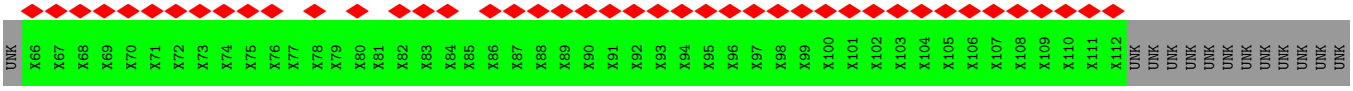


• Molecule 38: OJ3

Chain 5K:





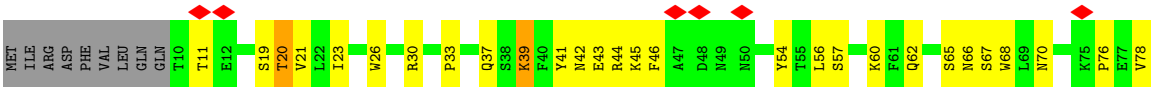




• Molecule 39: SB1

Chain 6F:





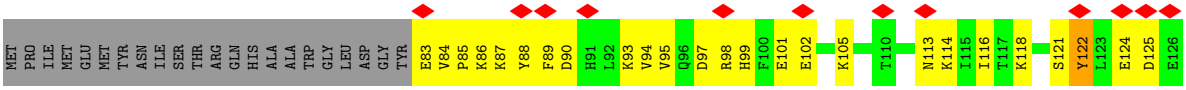


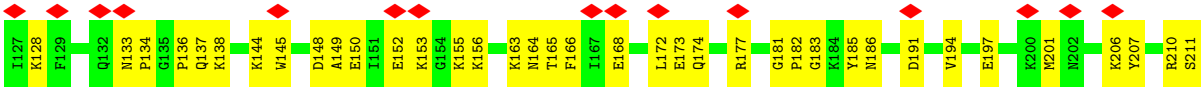
• Molecule 40: STPG1A

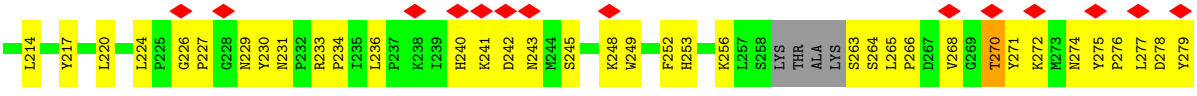
Chain 6G:











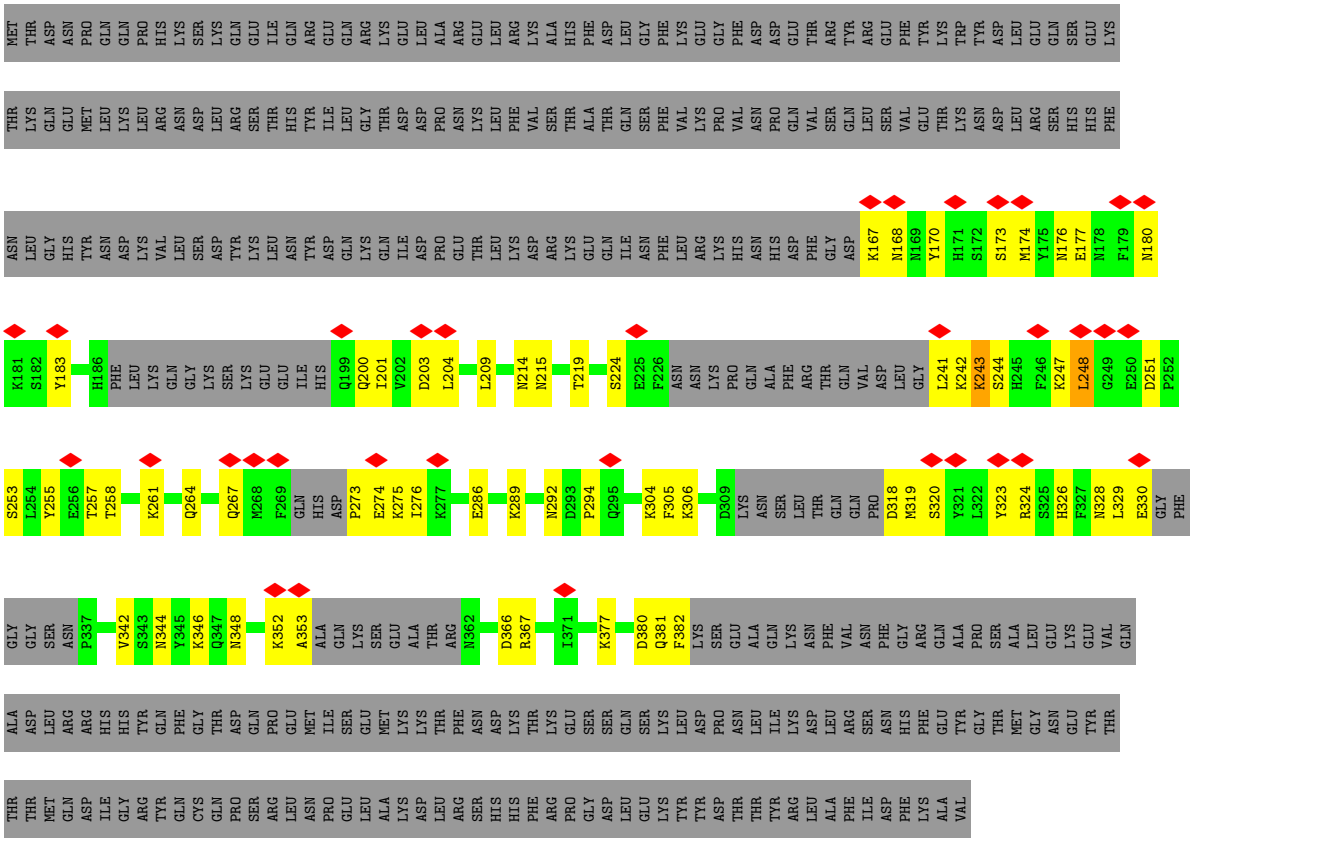




• Molecule 41: Nebulin

Chain 6H:

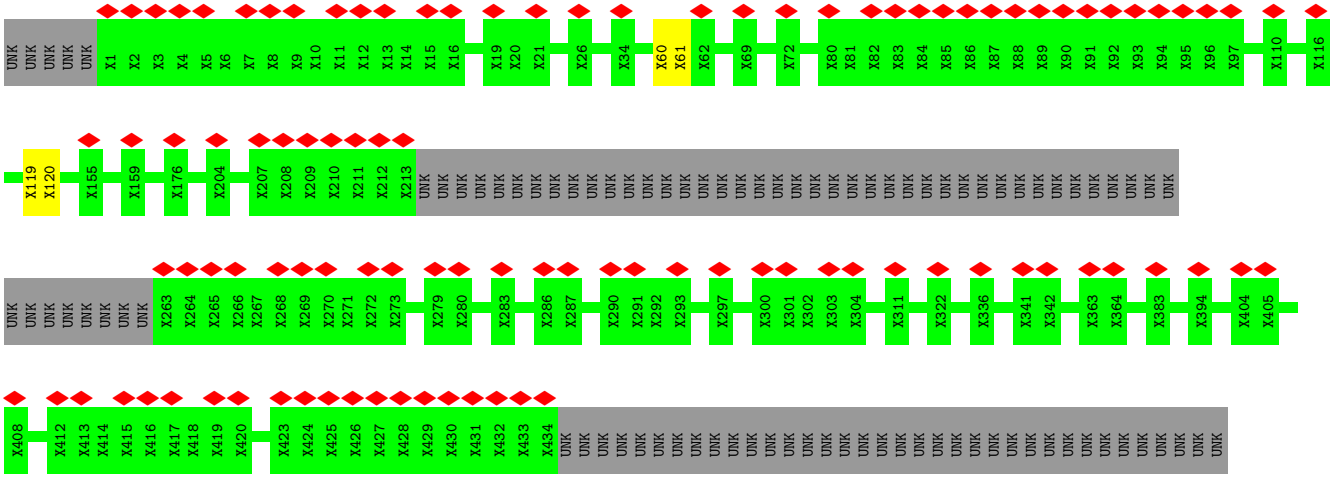




• Molecule 42: B5B6_fMIP

Chain 8L:



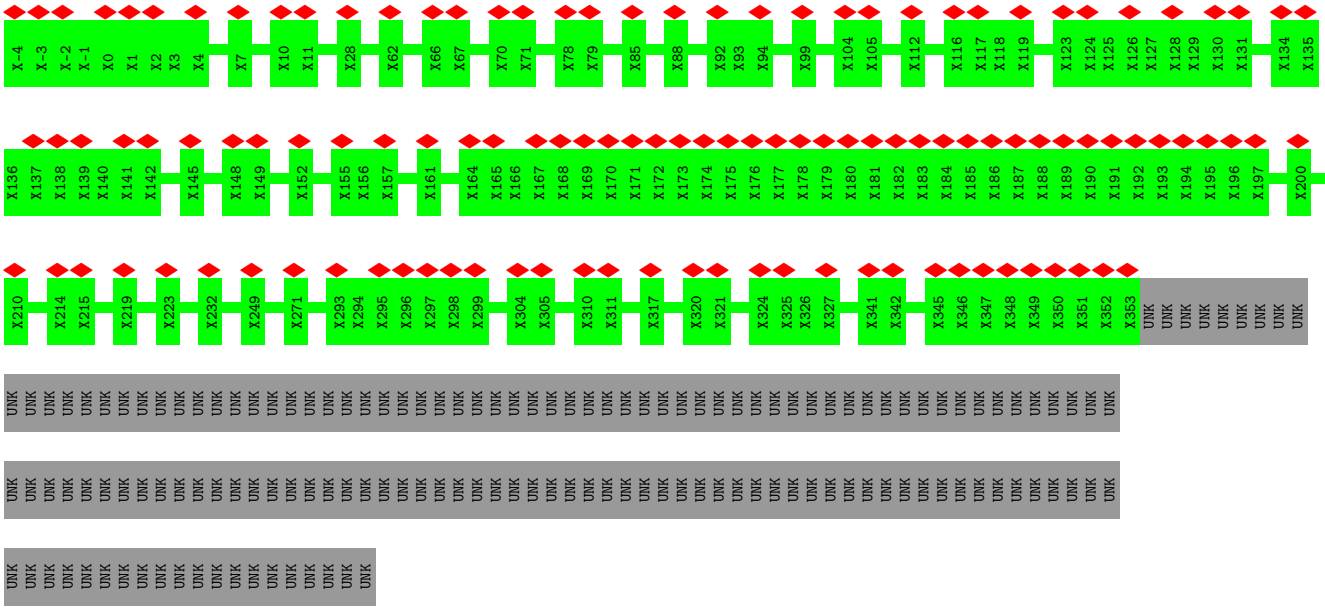




• Molecule 42: B5B6_fMIP

Chain 8N:

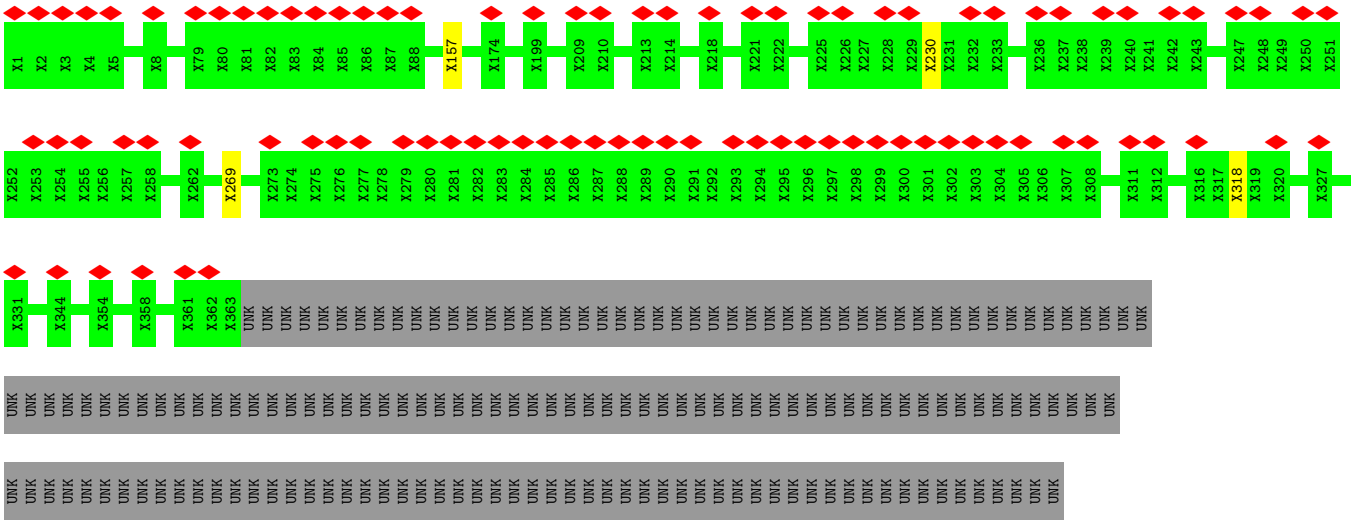




• Molecule 43: CFAP112A

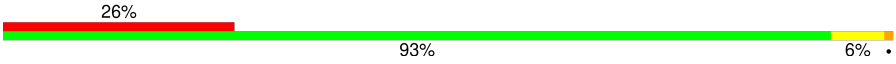
Chain 8P:

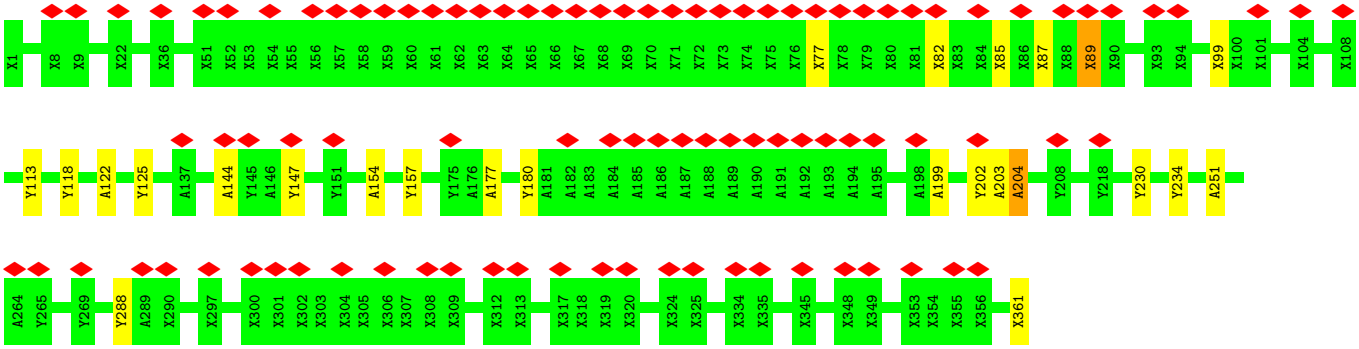




• Molecule 44: B2B3_fMIP

Chain 8R:

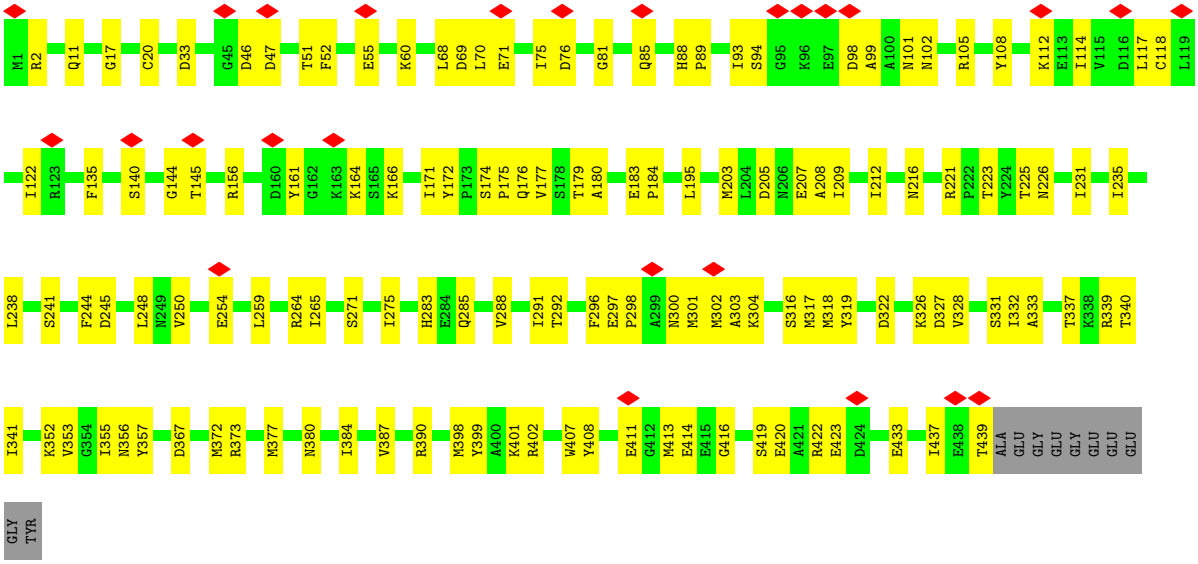




• Molecule 45: Tubulin alpha chain

Chain AA:

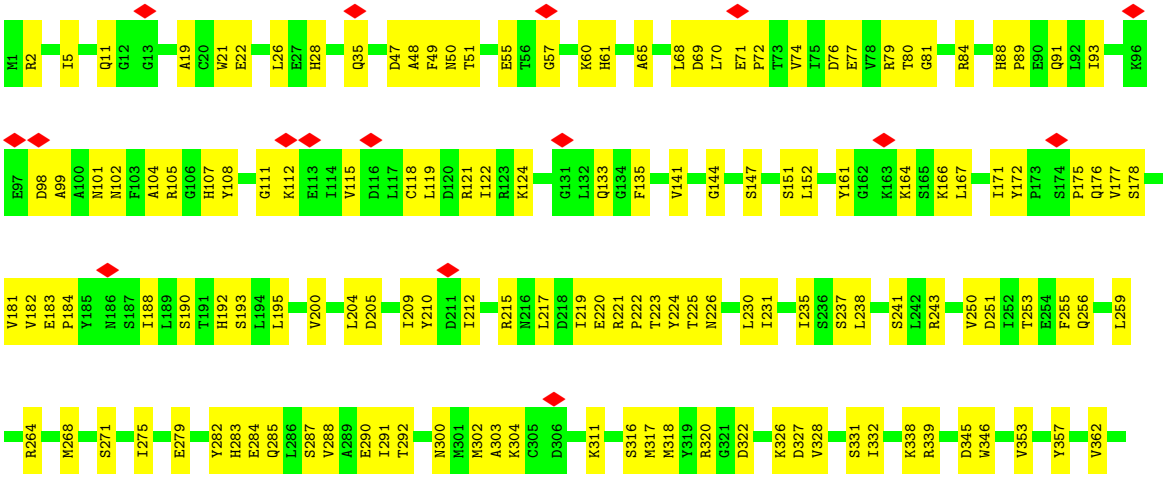




• Molecule 45: Tubulin alpha chain

Chain AC:



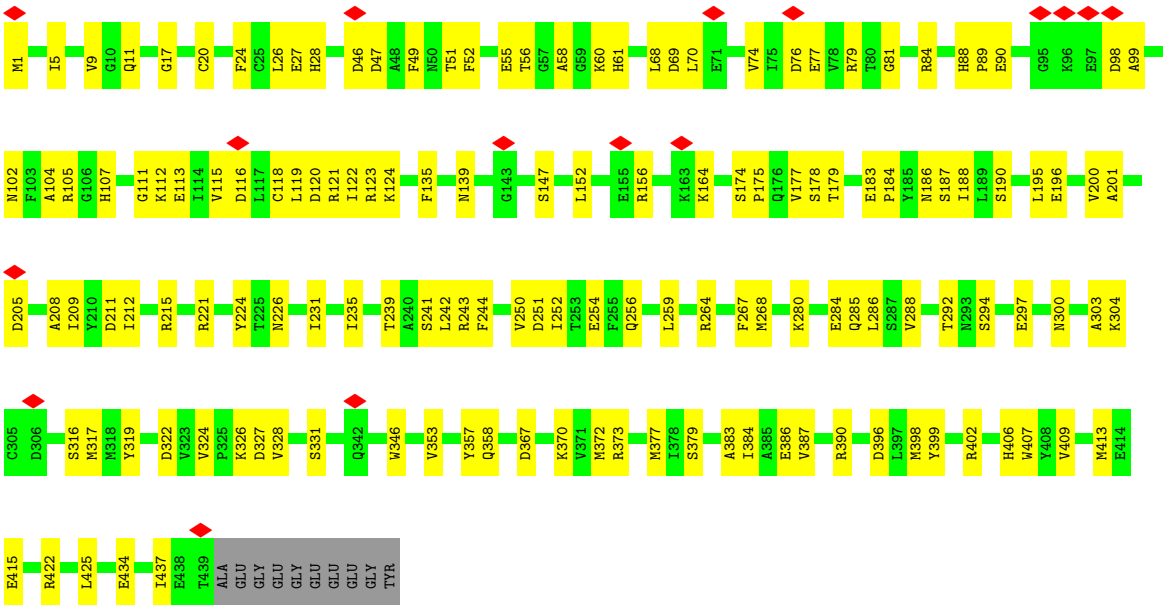




• Molecule 45: Tubulin alpha chain

Chain AE:

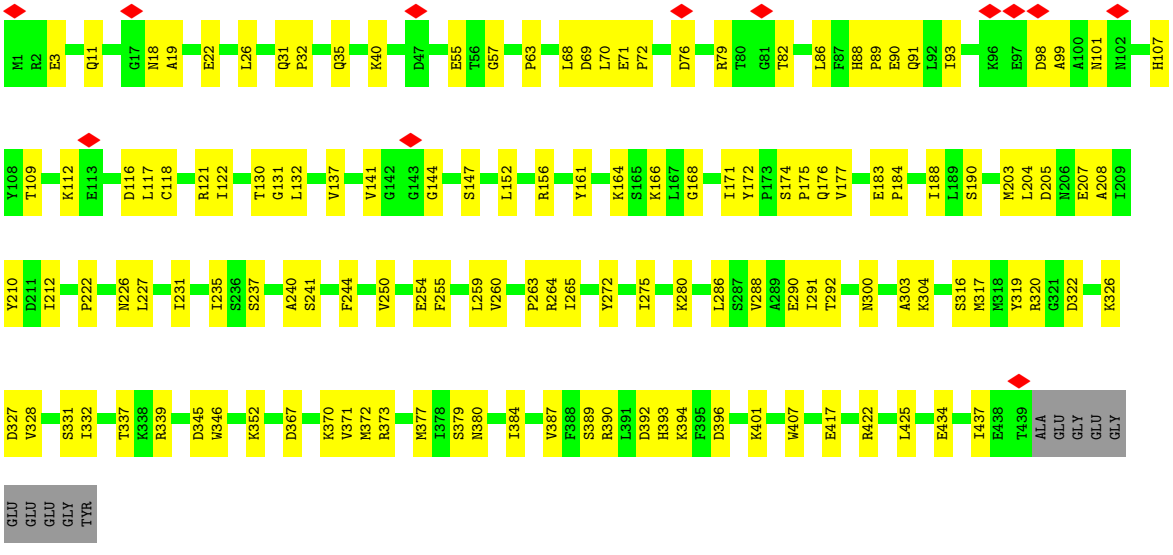




• Molecule 45: Tubulin alpha chain

Chain AG:

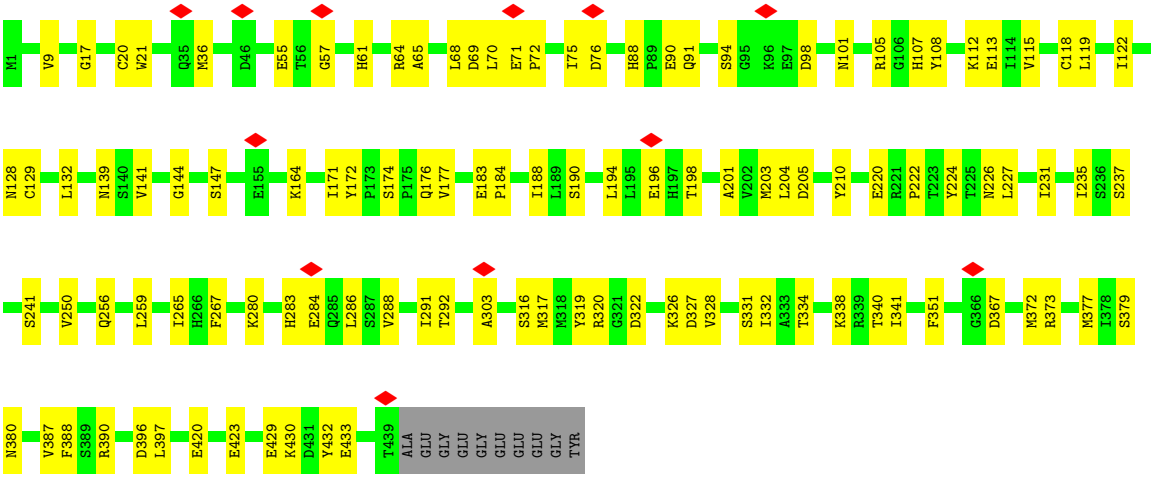




• Molecule 45: Tubulin alpha chain

Chain AI:

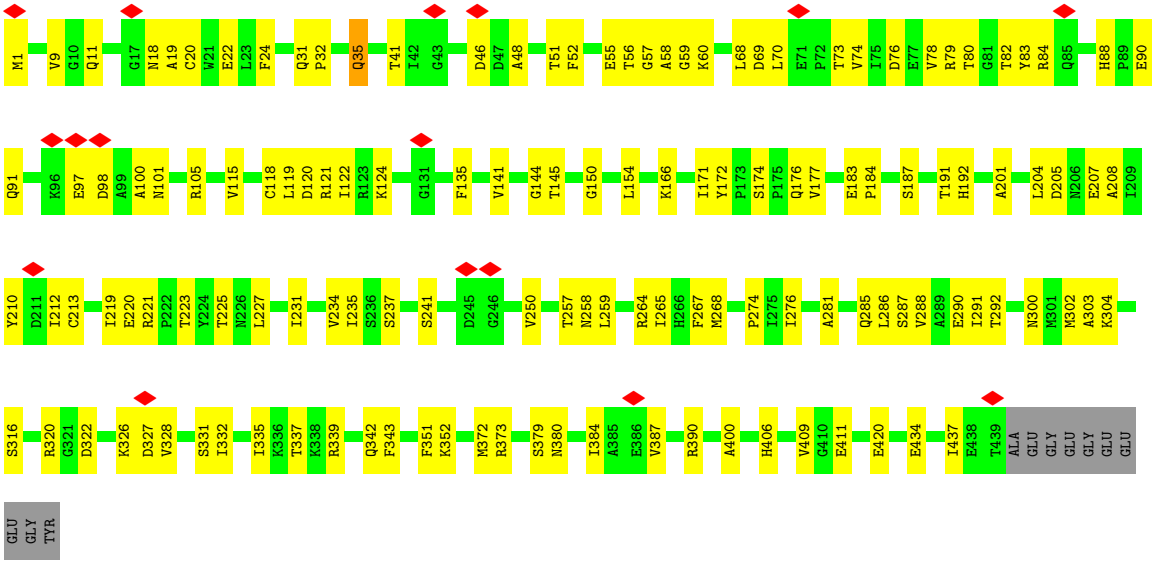




• Molecule 45: Tubulin alpha chain

Chain AK:

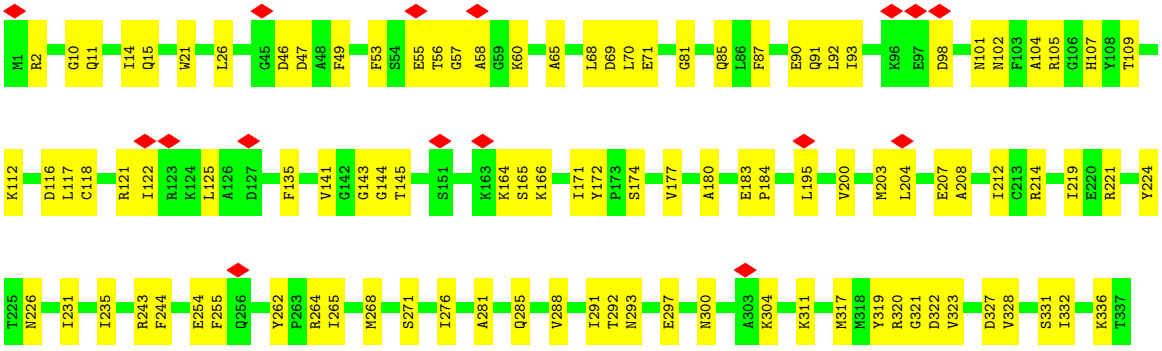


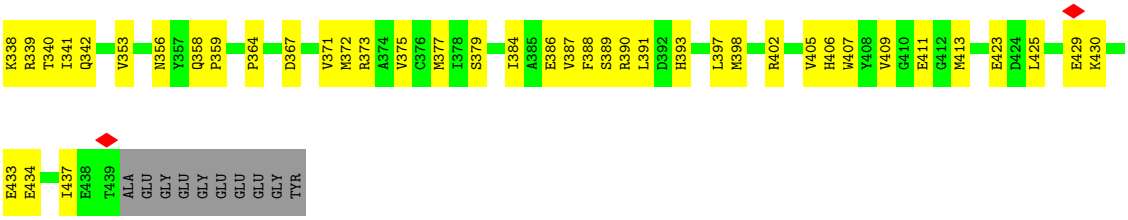


• Molecule 45: Tubulin alpha chain

Chain AM:



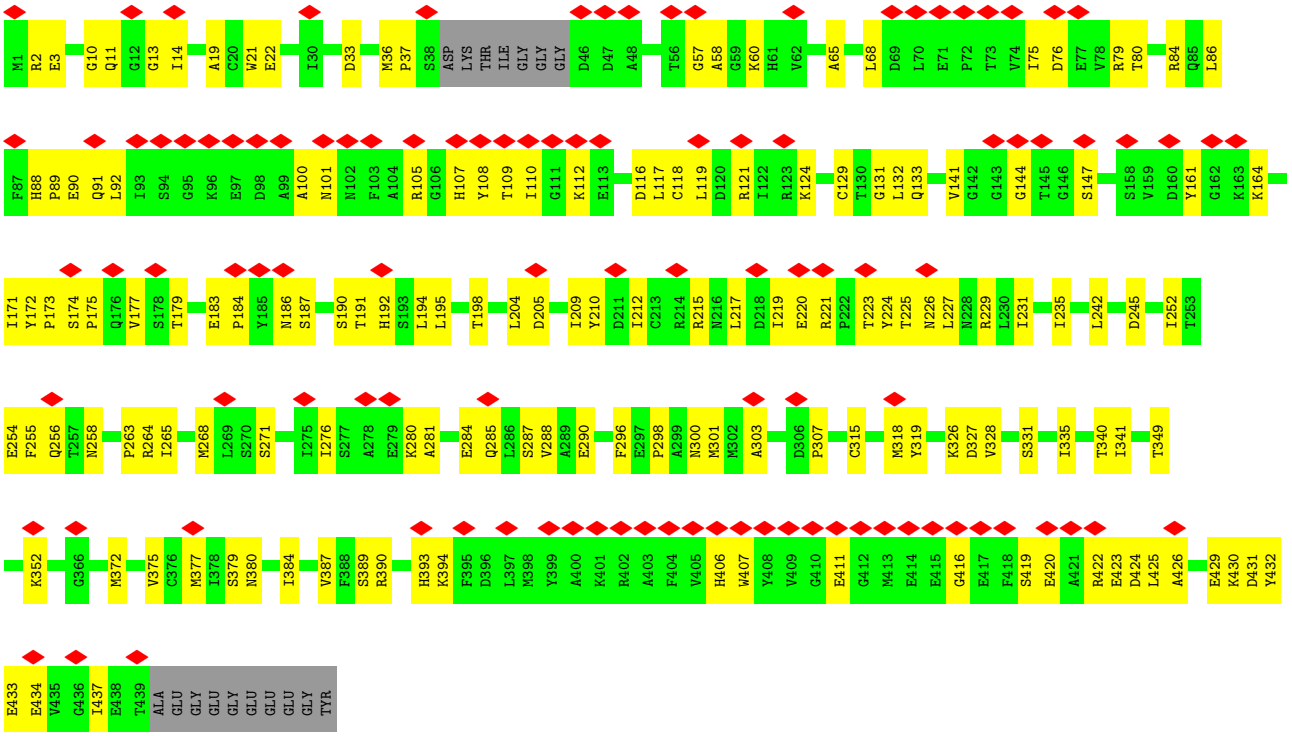




• Molecule 45: Tubulin alpha chain

Chain BA:

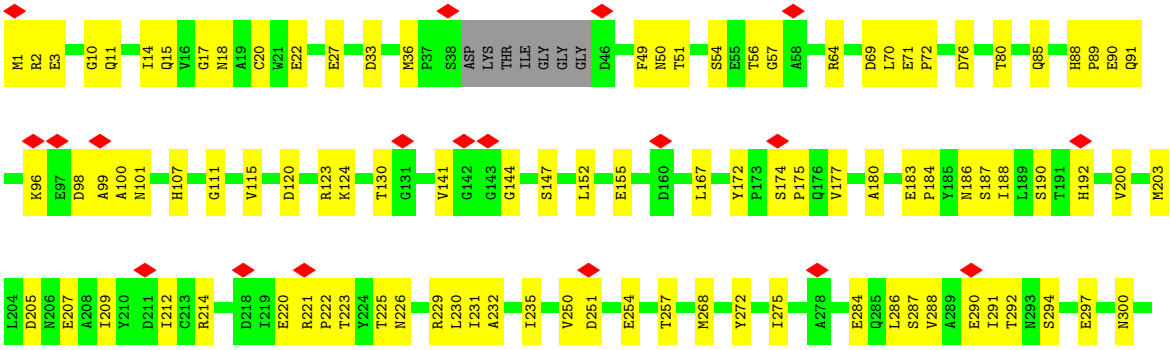


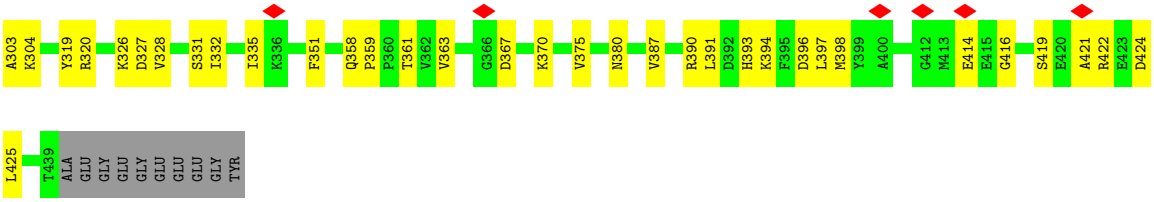


• Molecule 45: Tubulin alpha chain

Chain BC:



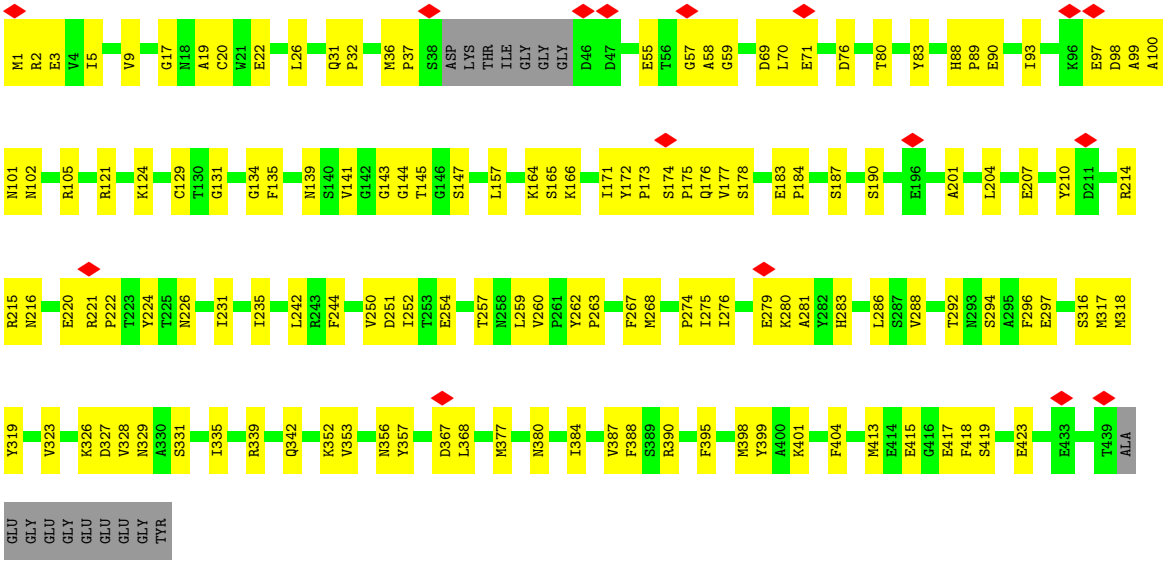




• Molecule 45: Tubulin alpha chain

Chain BE:

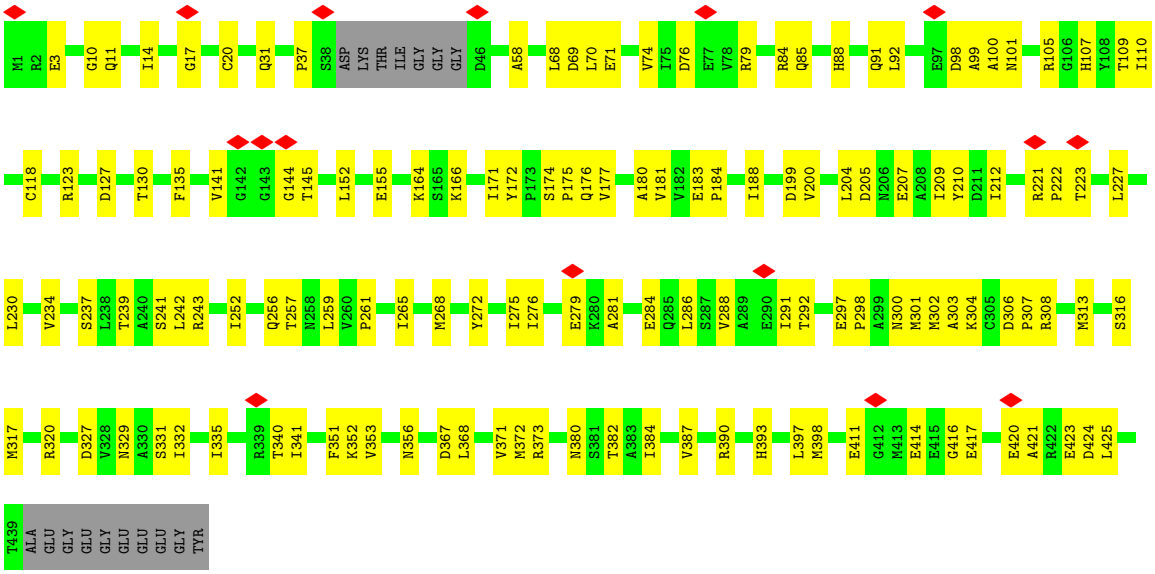




• Molecule 45: Tubulin alpha chain

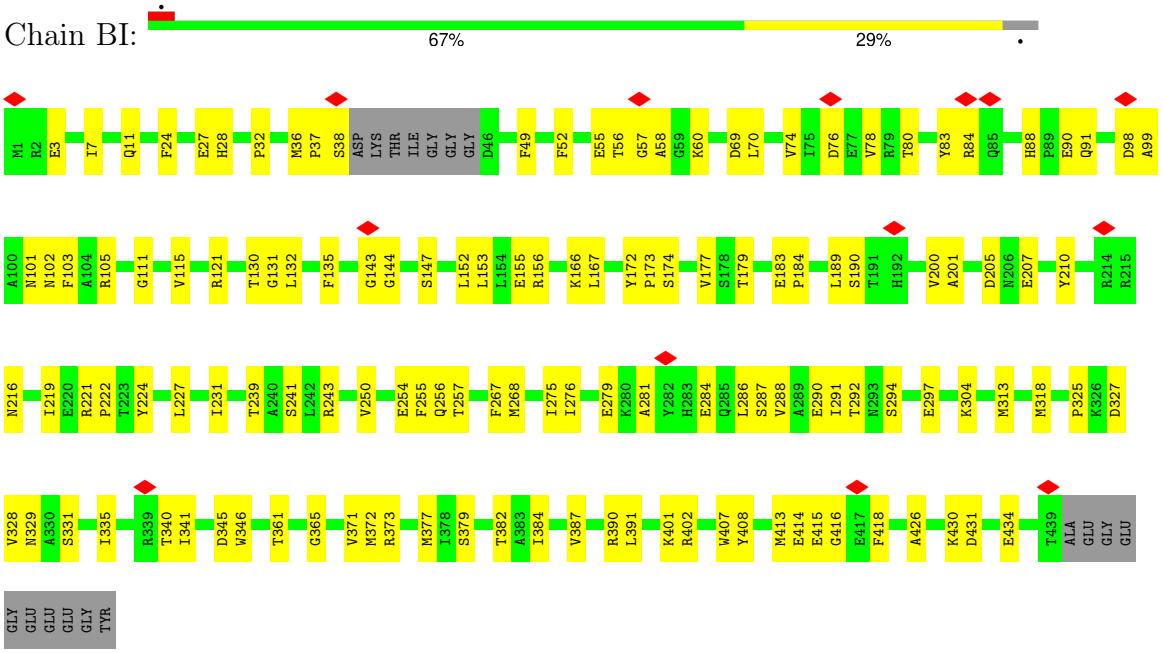
Chain BG:





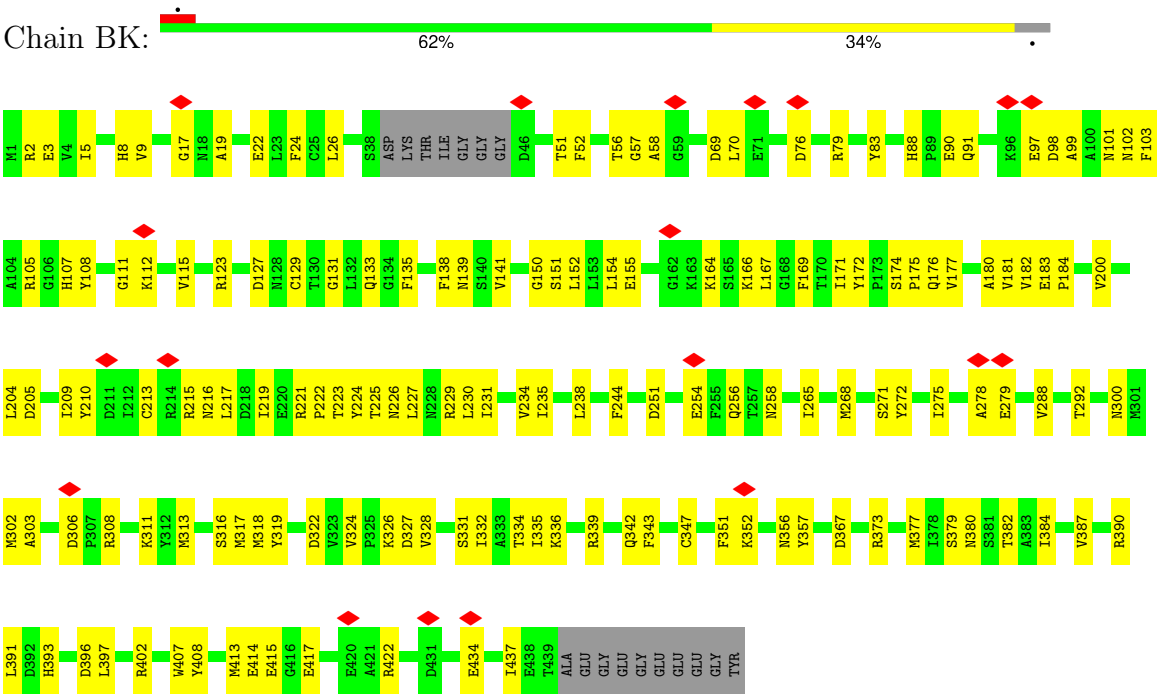
• Molecule 45: Tubulin alpha chain

Chain BI:



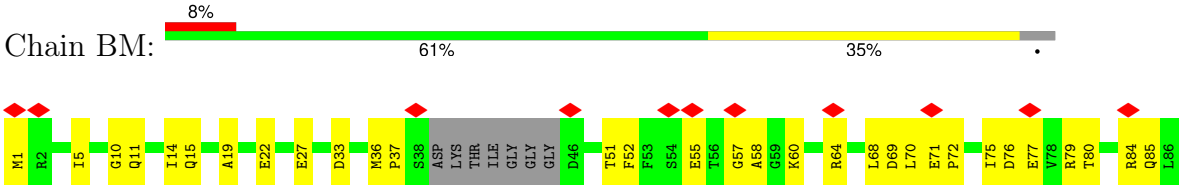
• Molecule 45: Tubulin alpha chain

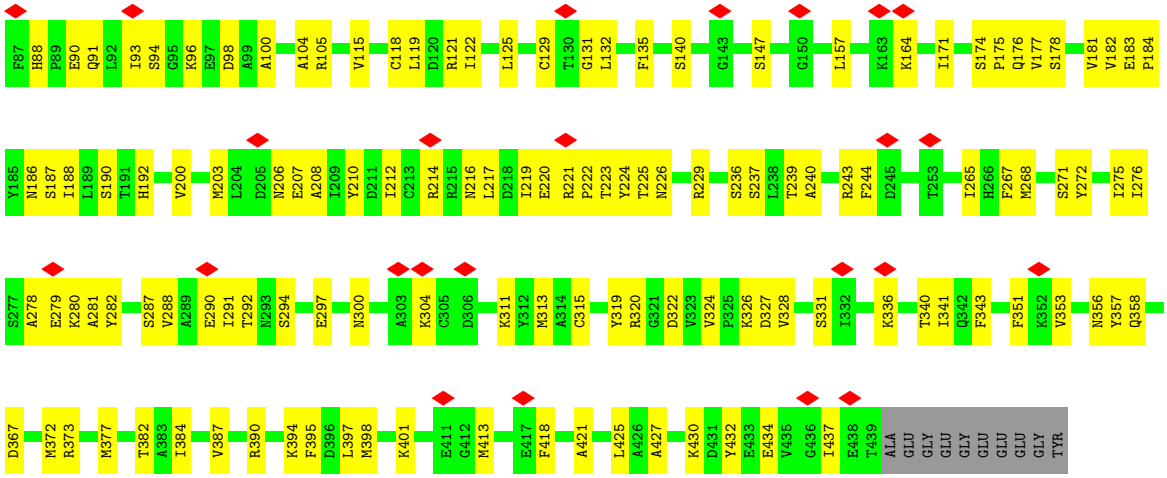
Chain BK:



• Molecule 45: Tubulin alpha chain

Chain BM:

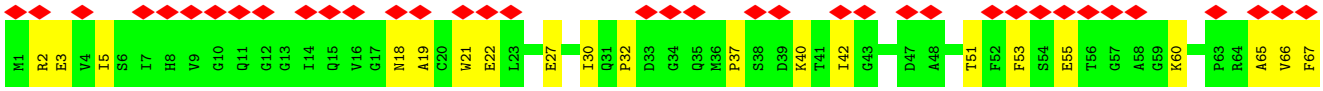


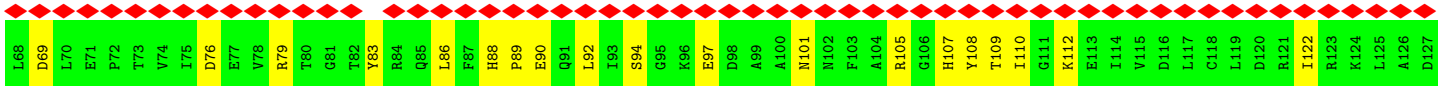


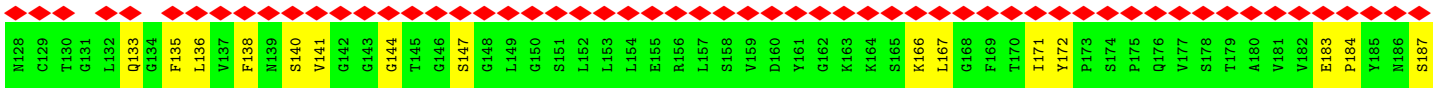
• Molecule 45: Tubulin alpha chain

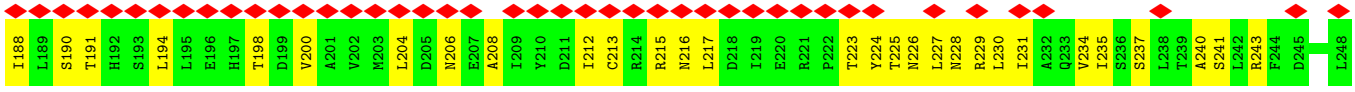
Chain CA:

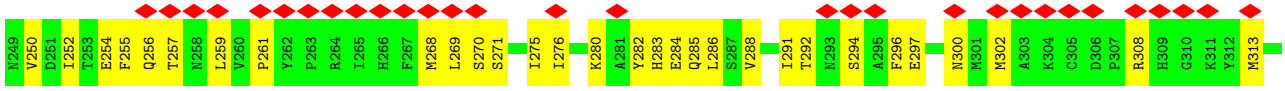


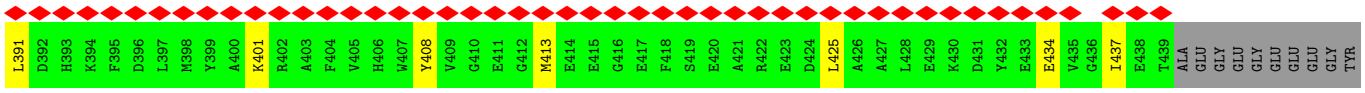








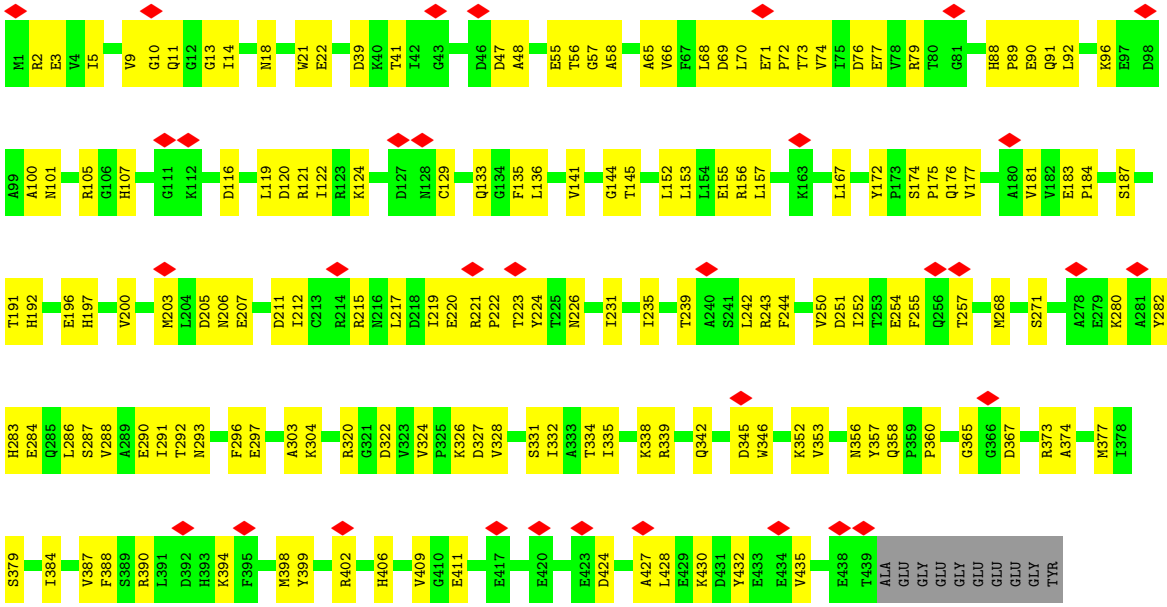




• Molecule 45: Tubulin alpha chain

Chain CC:

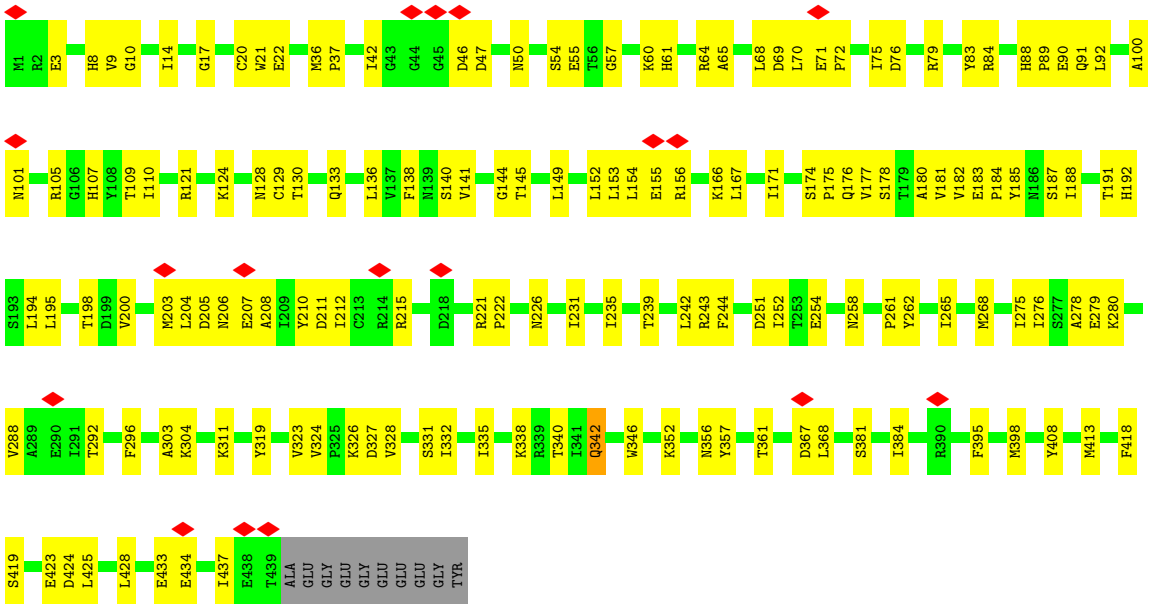




• Molecule 45: Tubulin alpha chain

Chain CG:



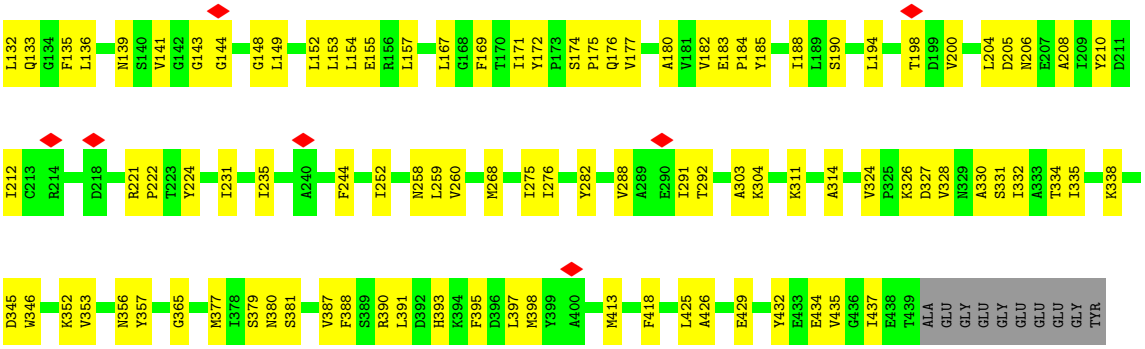


• Molecule 45: Tubulin alpha chain

Chain CI:



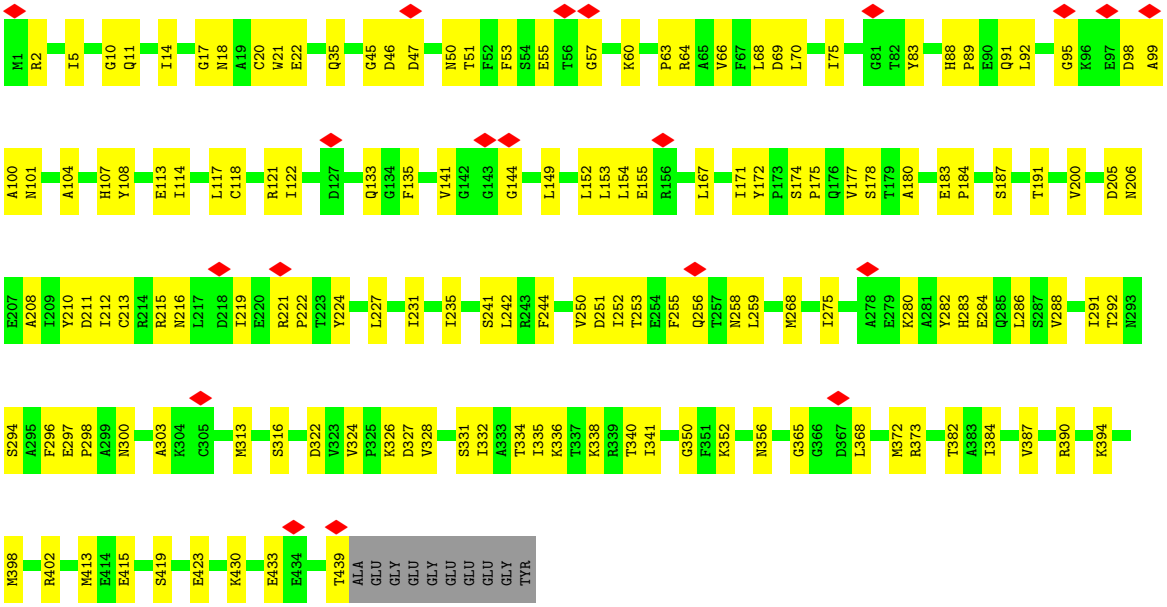




• Molecule 45: Tubulin alpha chain

Chain CK:

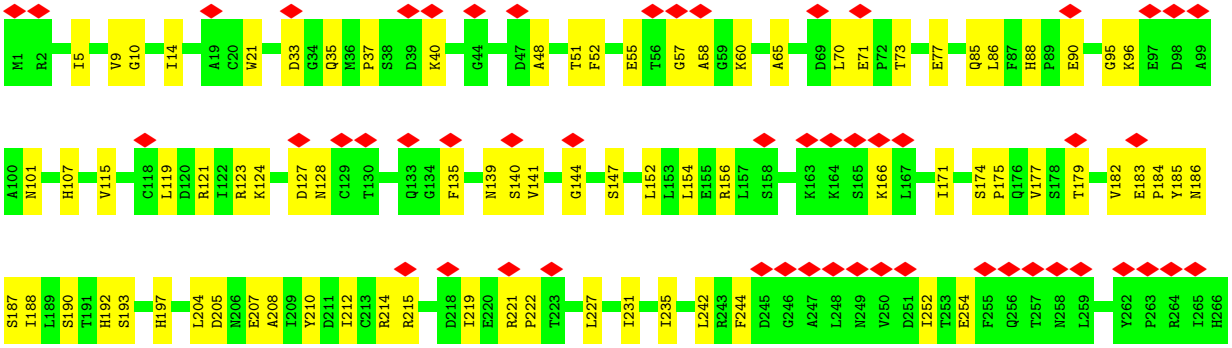


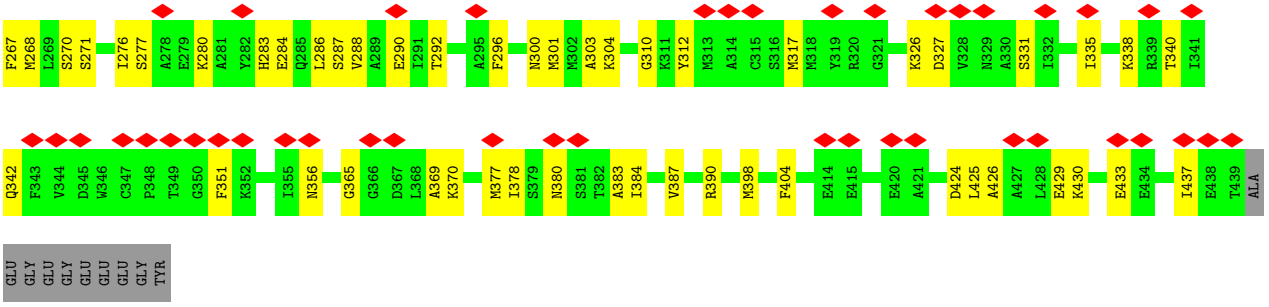


• Molecule 45: Tubulin alpha chain

Chain CM:

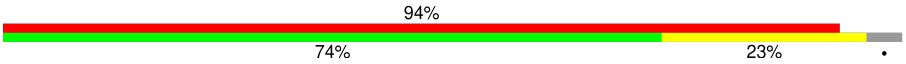


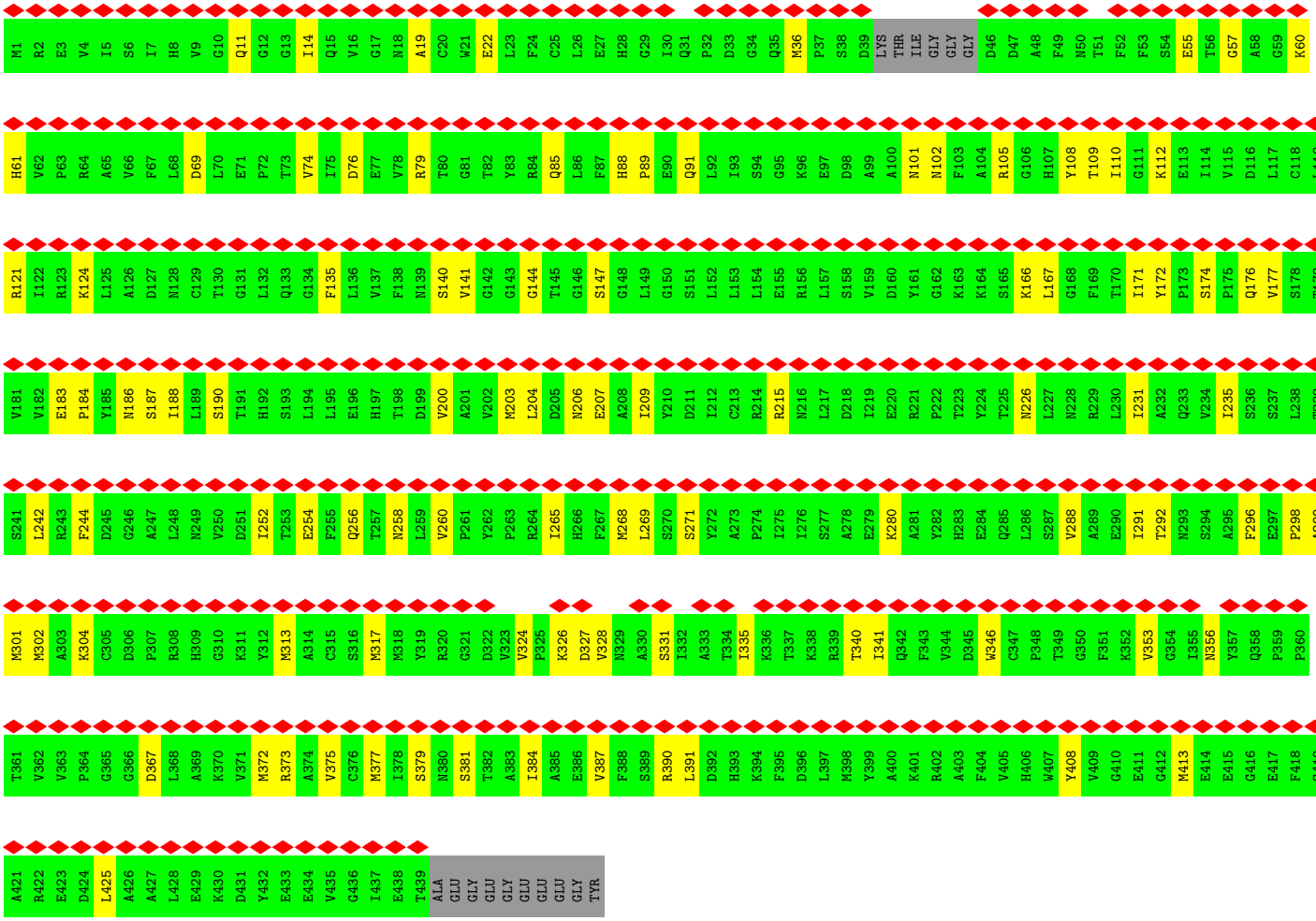




• Molecule 45: Tubulin alpha chain

Chain DA:

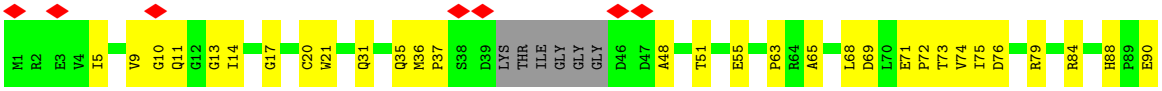


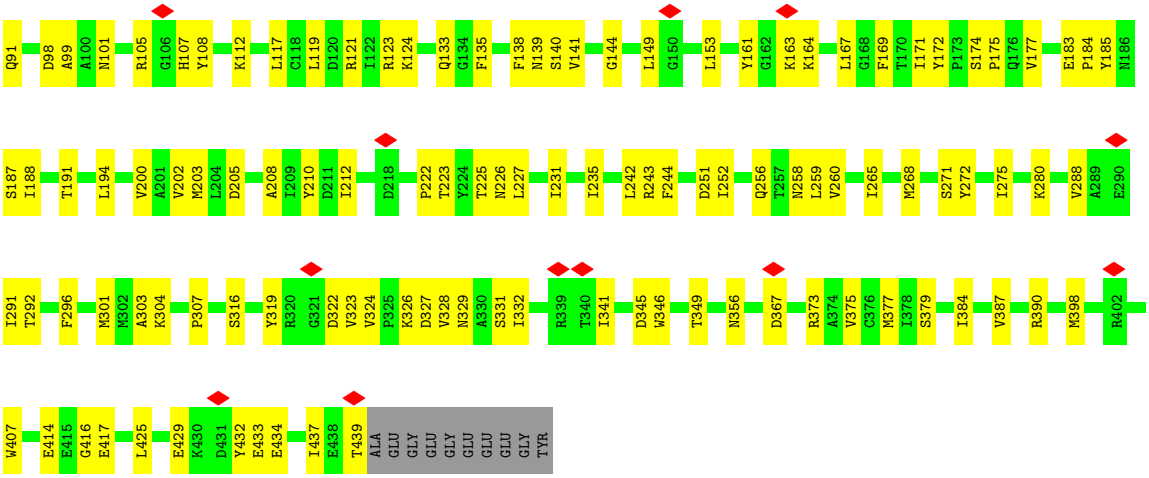


• Molecule 45: Tubulin alpha chain

Chain DE:



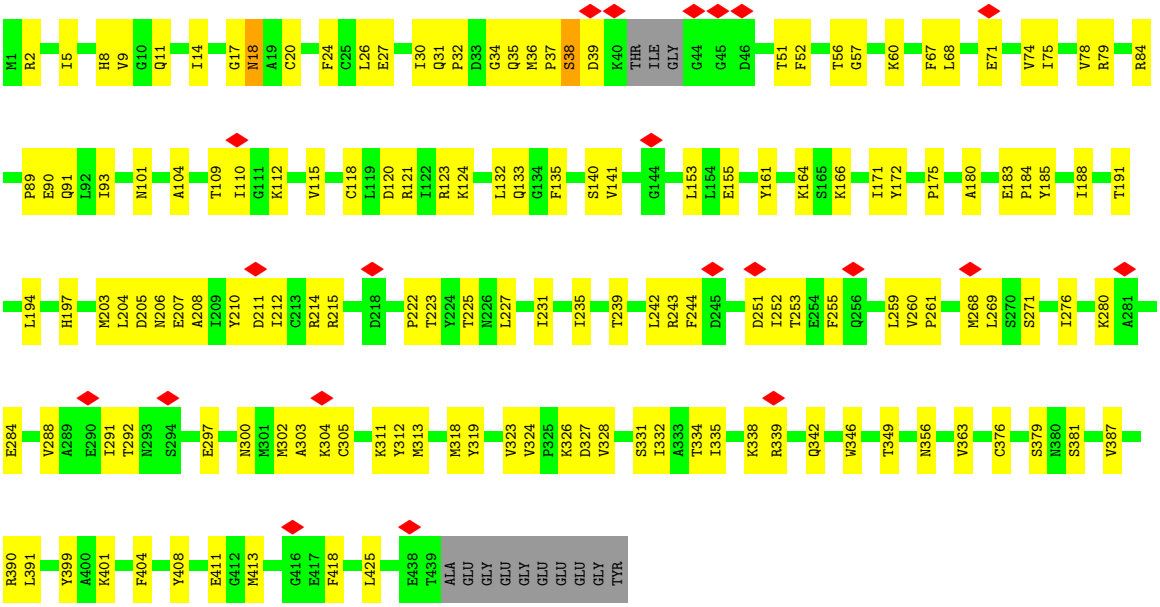




• Molecule 45: Tubulin alpha chain

Chain DG:

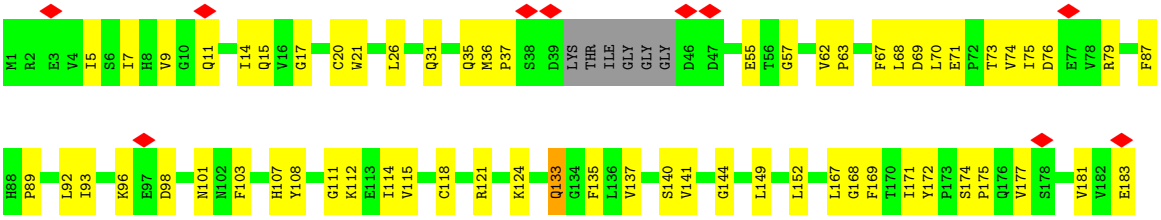


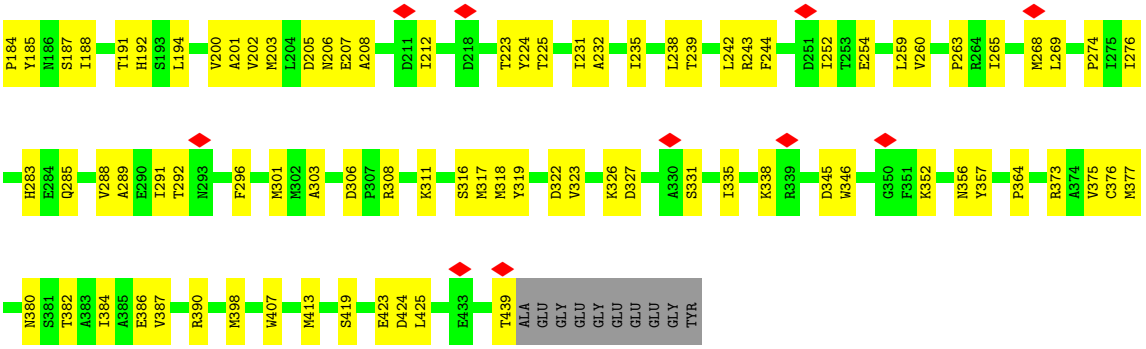


• Molecule 45: Tubulin alpha chain

Chain DI:



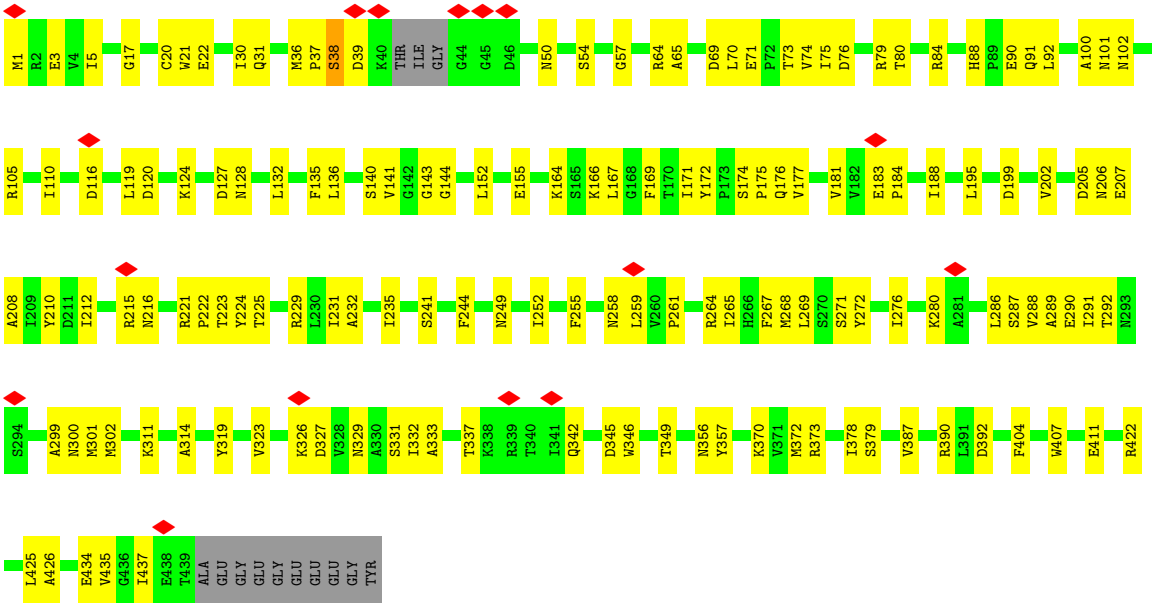




• Molecule 45: Tubulin alpha chain

Chain DK:

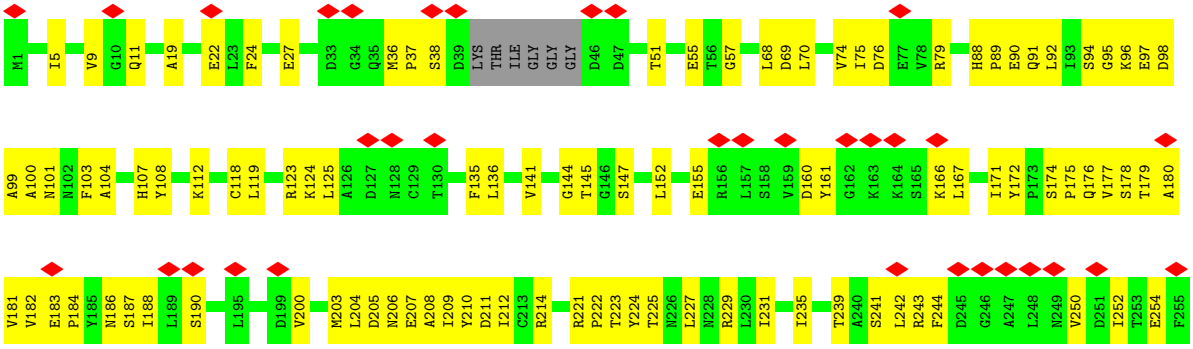


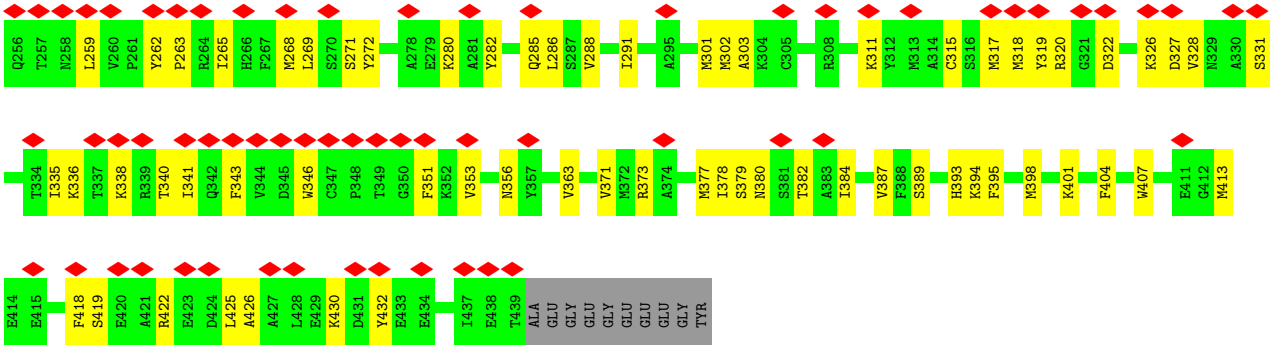


• Molecule 45: Tubulin alpha chain

Chain DM:

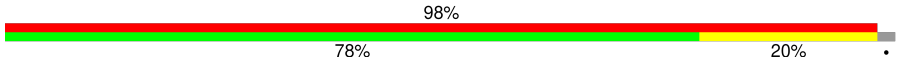


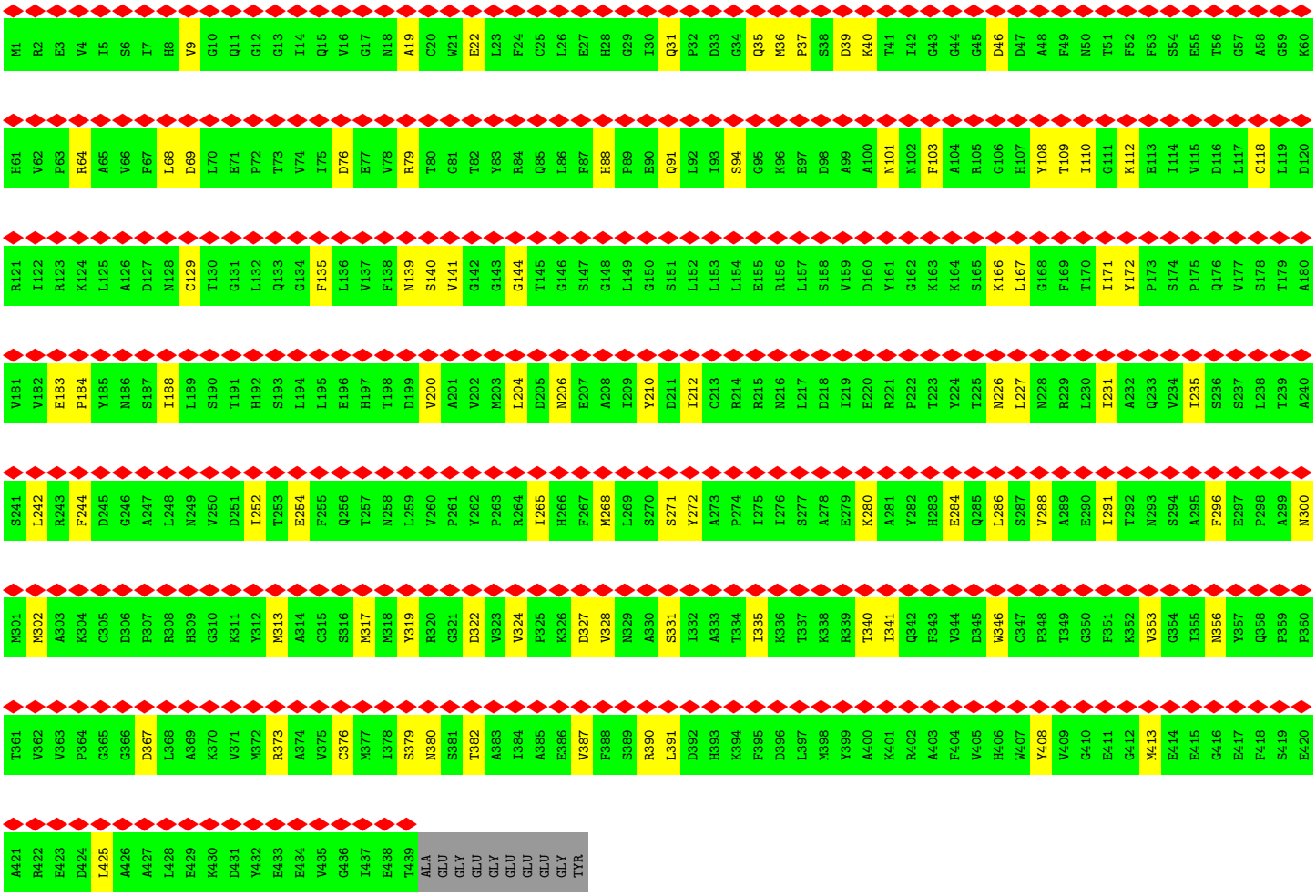




• Molecule 45: Tubulin alpha chain

Chain EA:

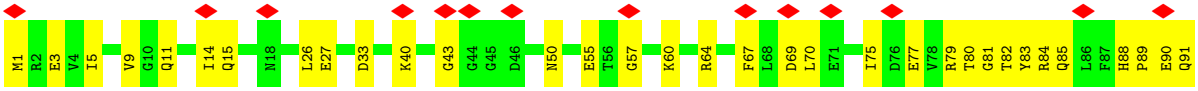


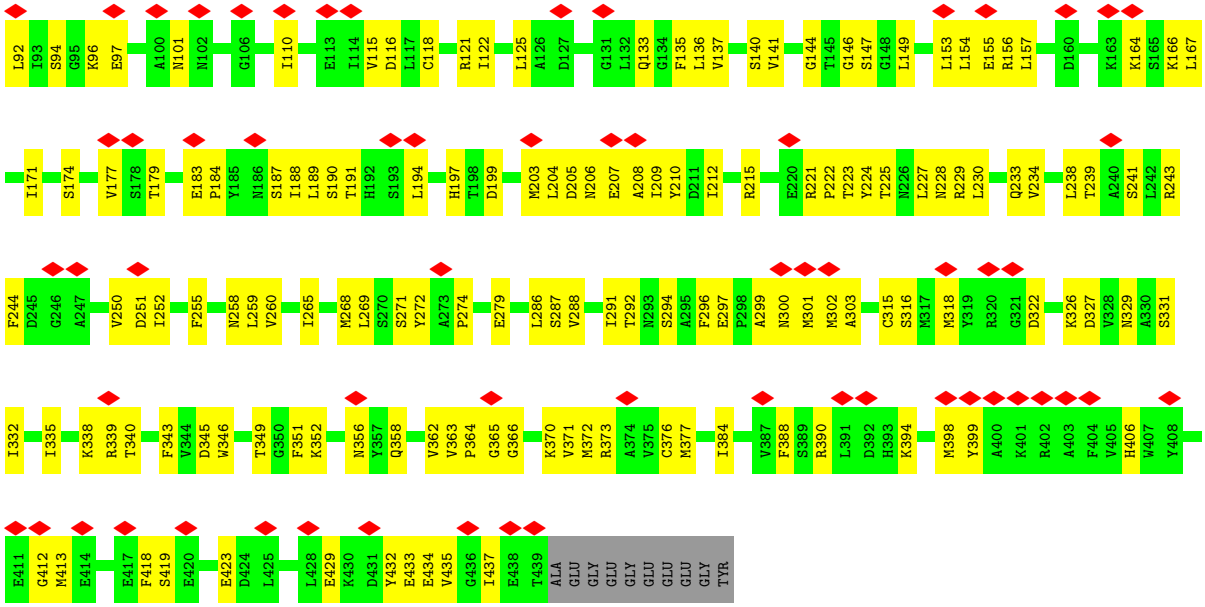


• Molecule 45: Tubulin alpha chain

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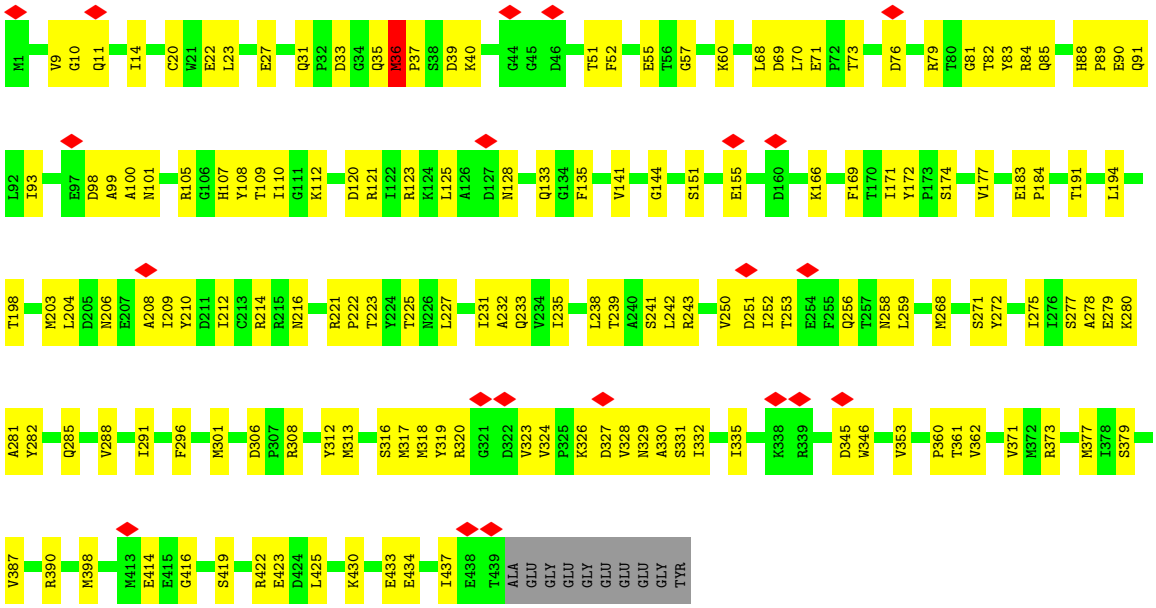




• Molecule 45: Tubulin alpha chain

Chain EE:

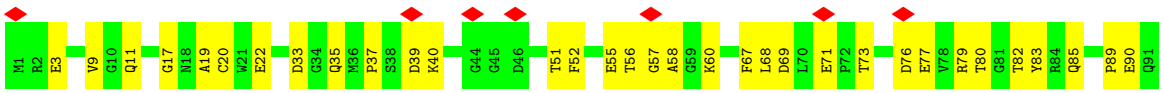


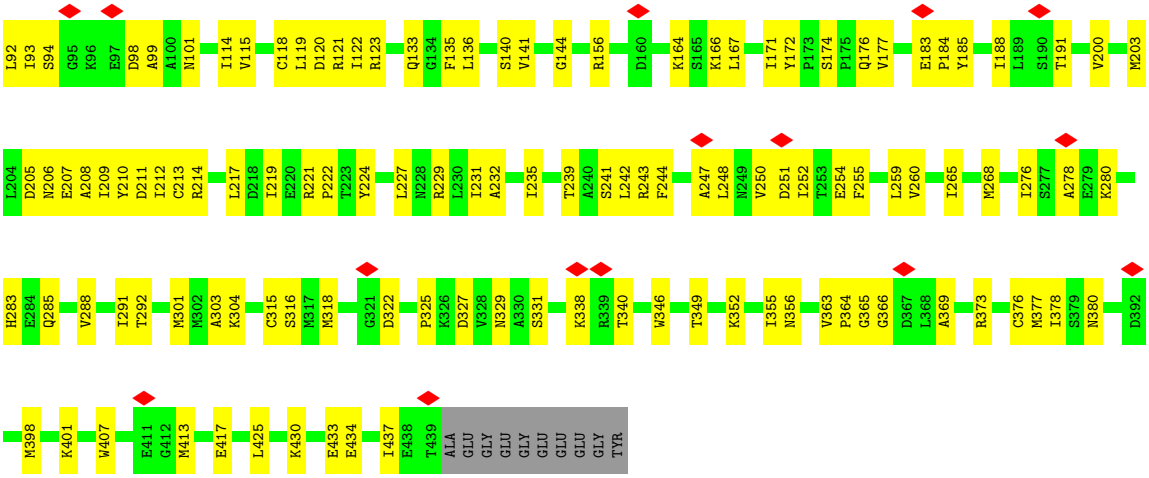


• Molecule 45: Tubulin alpha chain

Chain EG:



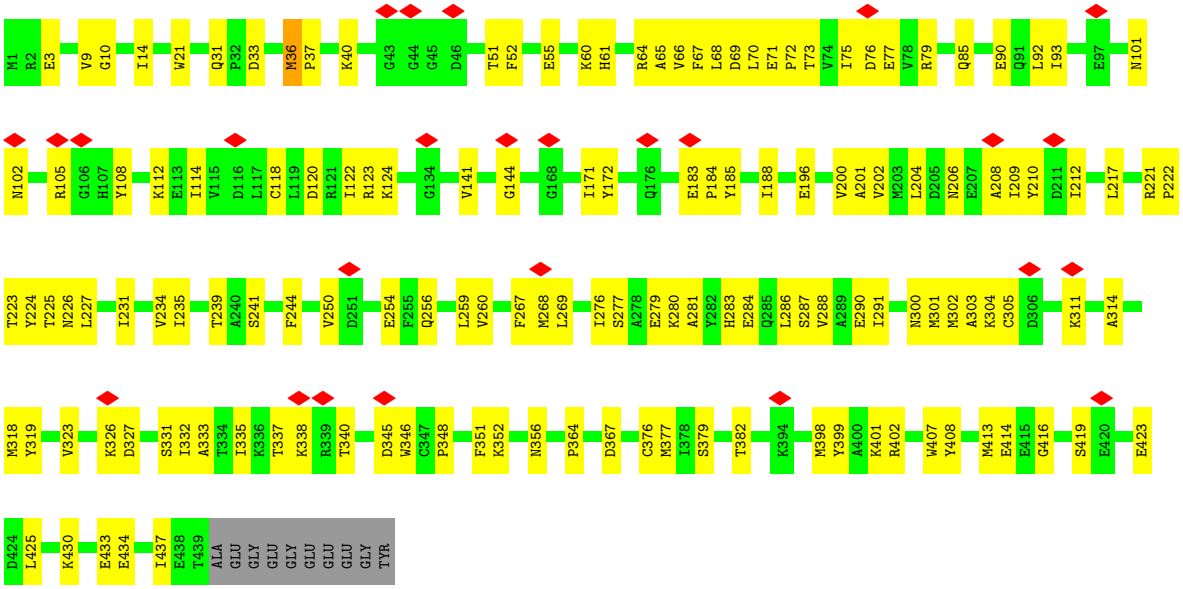




• Molecule 45: Tubulin alpha chain

Chain EI:

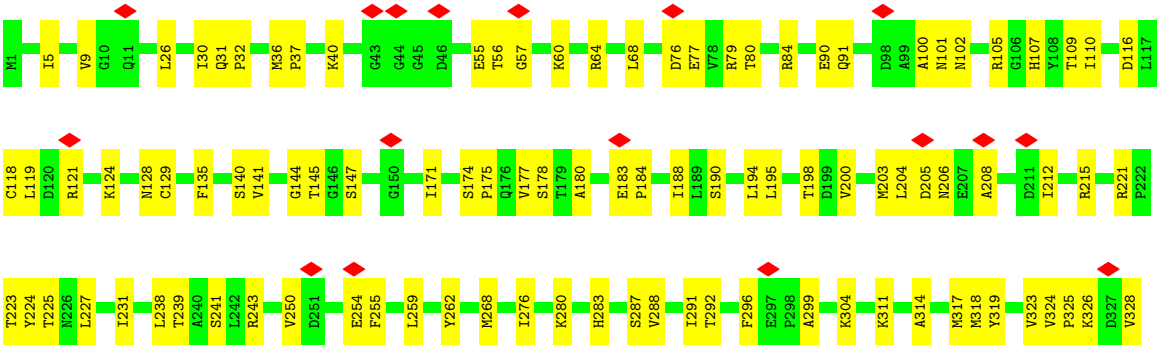


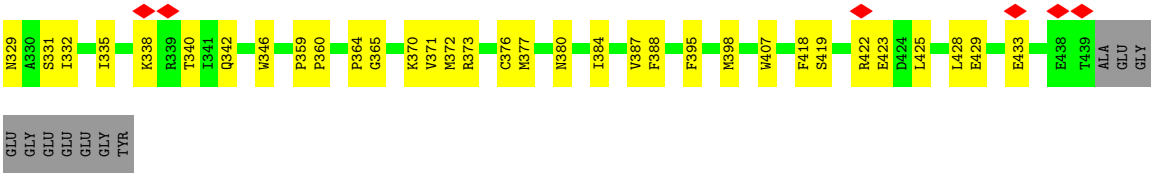


• Molecule 45: Tubulin alpha chain

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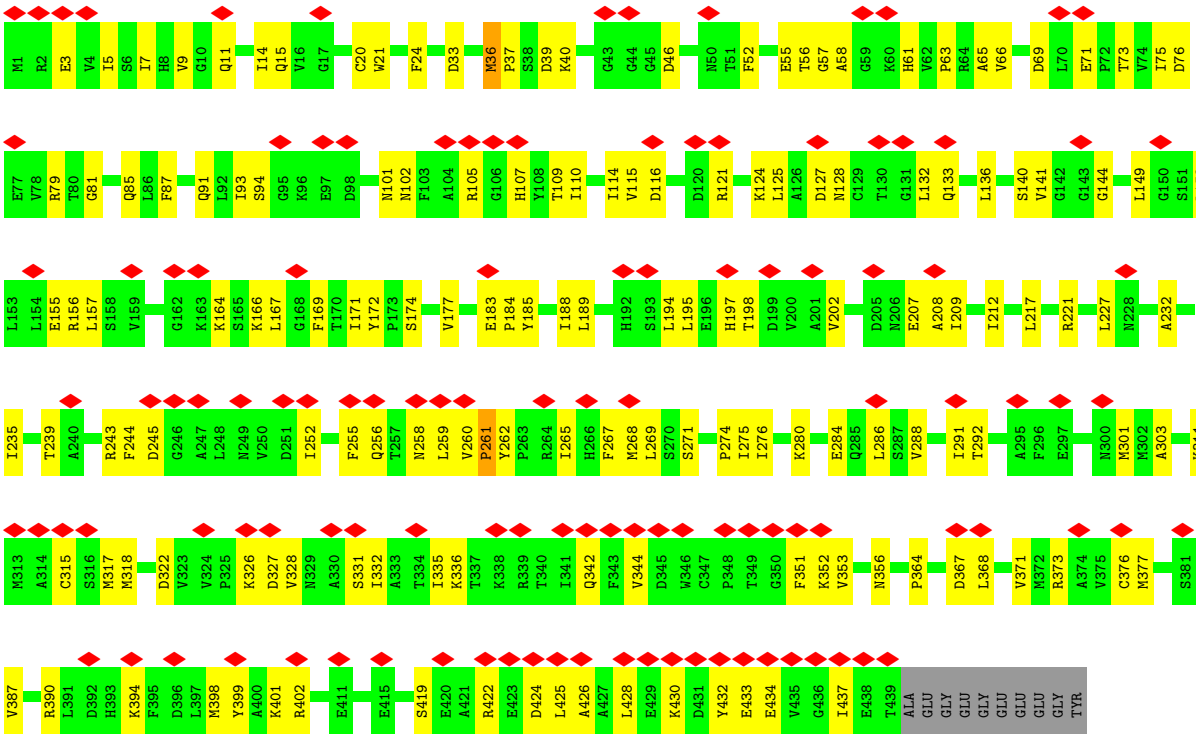






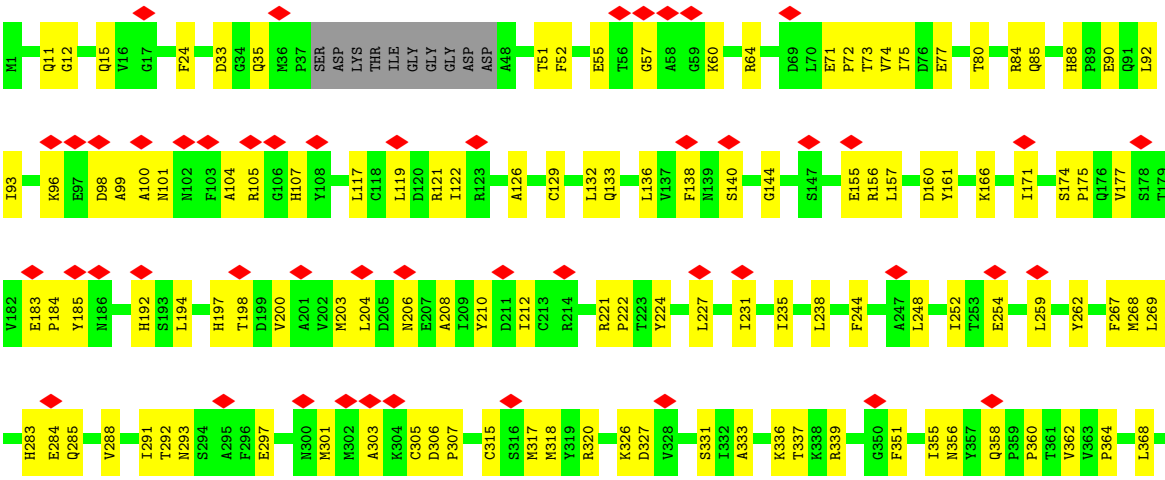
• Molecule 45: Tubulin alpha chain

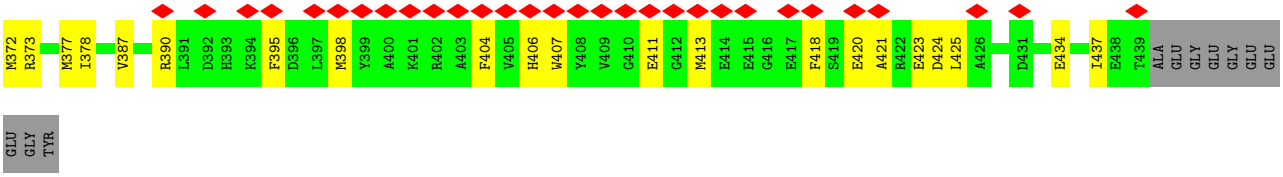




• Molecule 45: Tubulin alpha chain



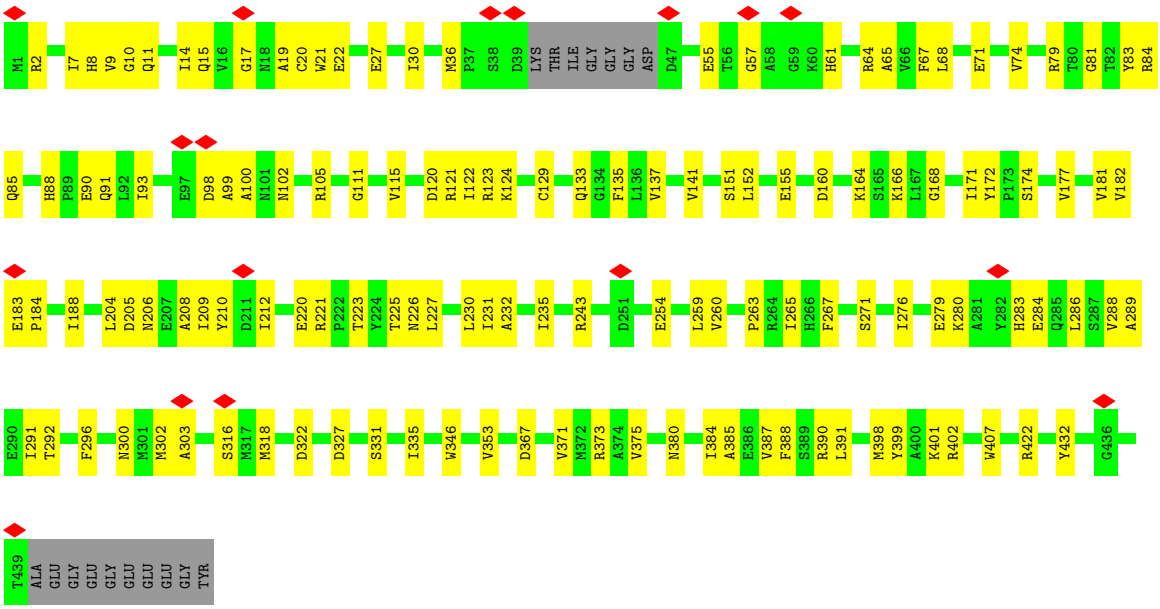




• Molecule 45: Tubulin alpha chain

Chain FC:

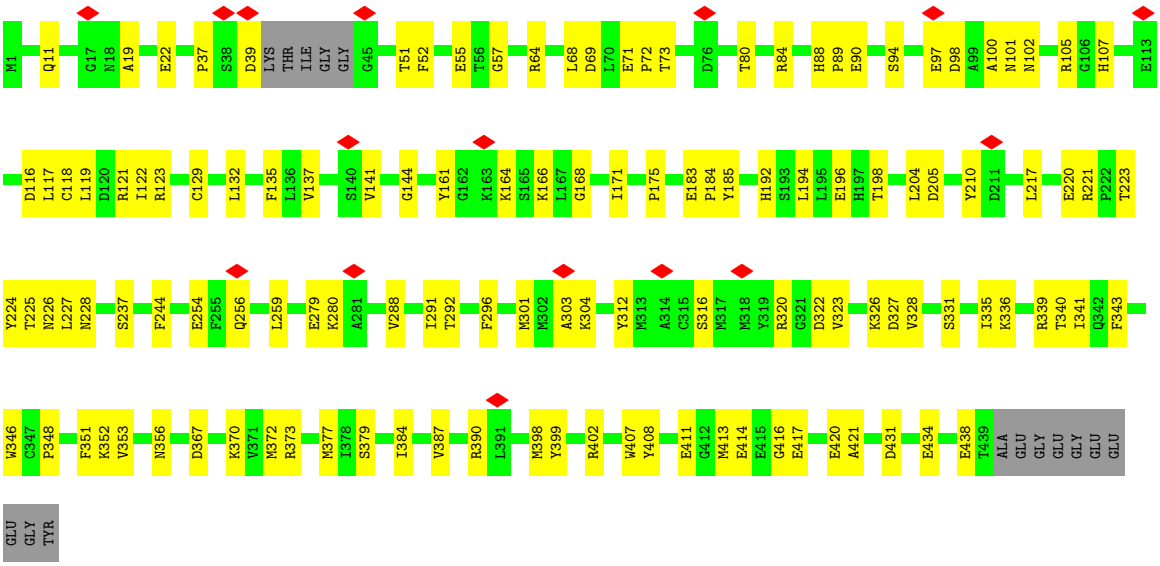




• Molecule 45: Tubulin alpha chain

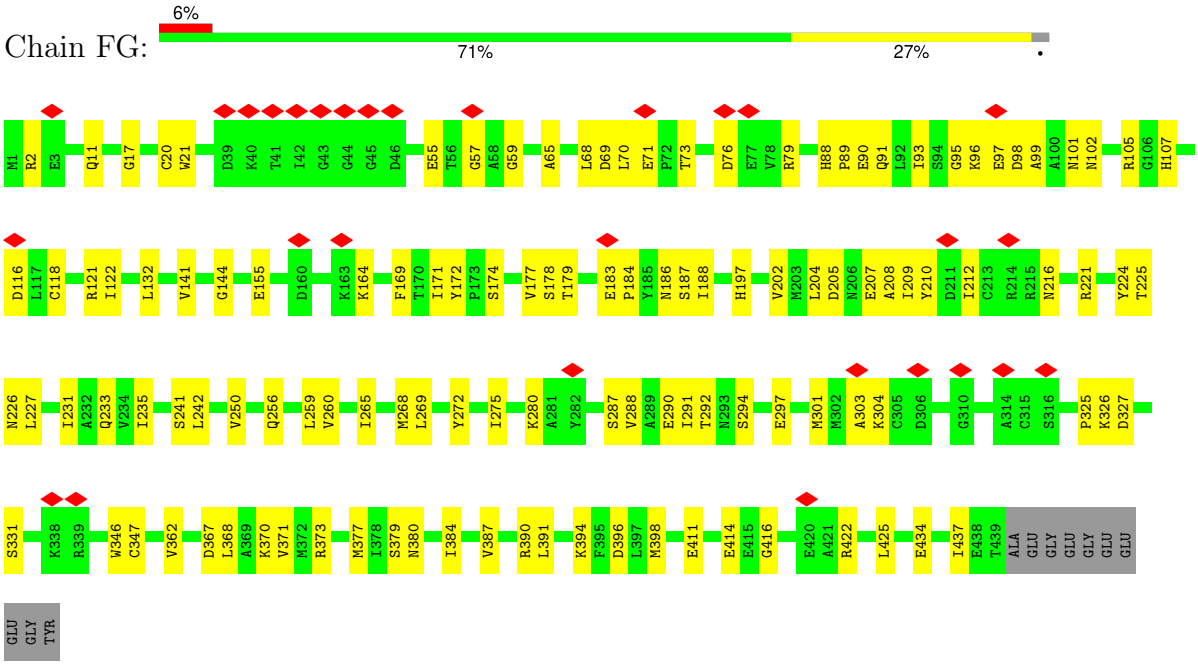
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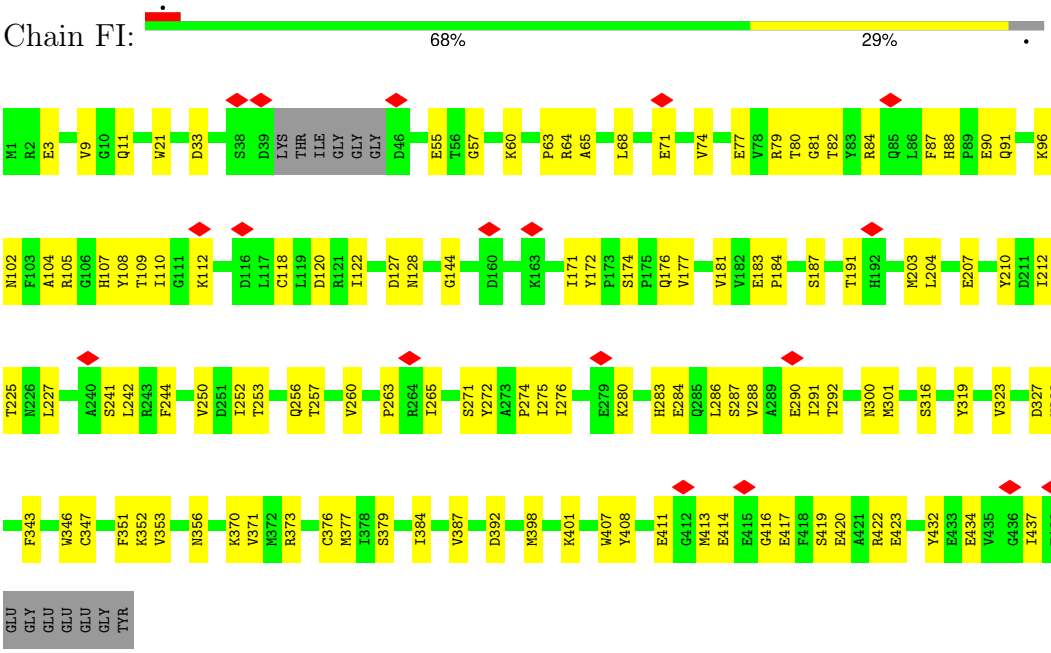
• Molecule 45: Tubulin alpha chain

Chain FG:



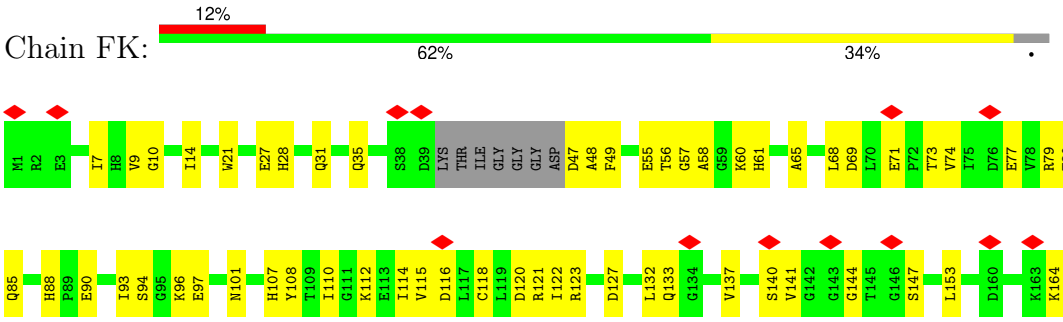
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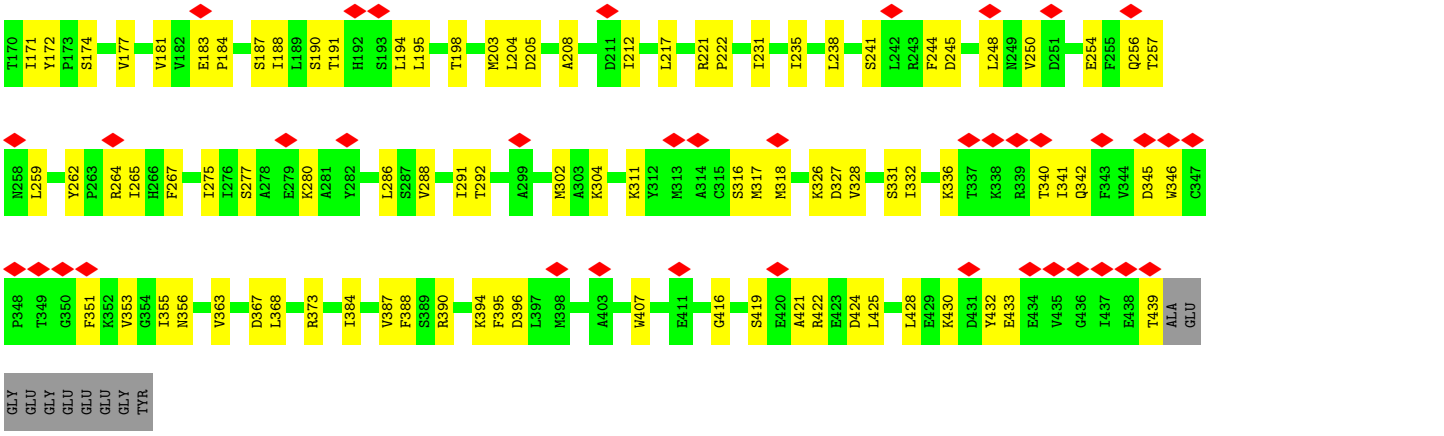
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• Molecule 45: Tubulin alpha chain

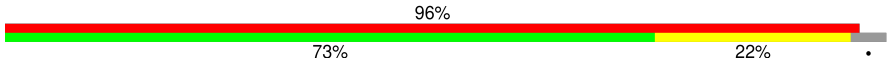
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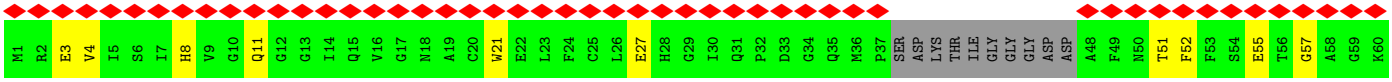


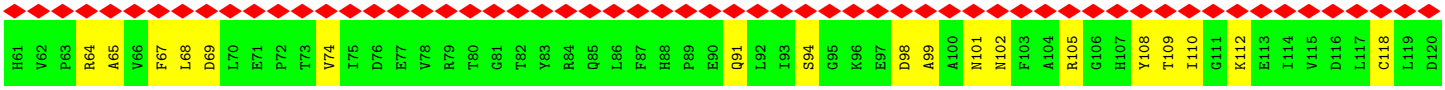


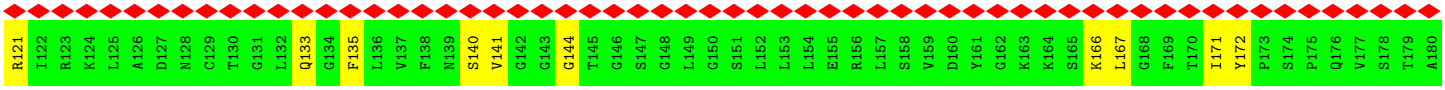
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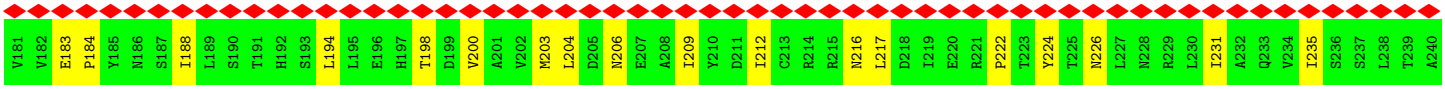
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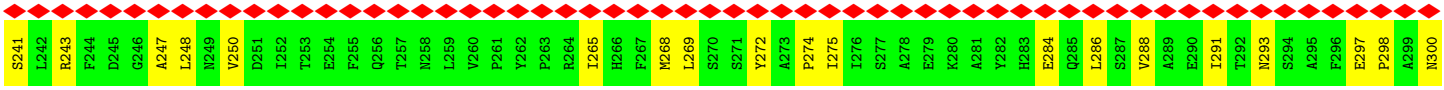


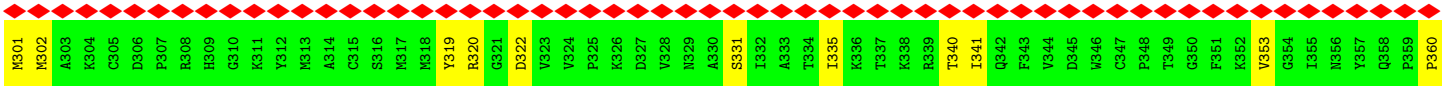


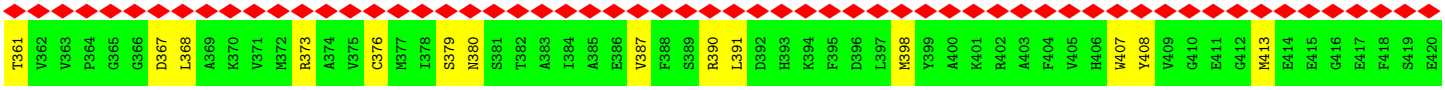


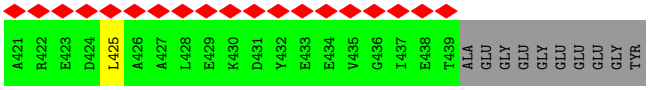








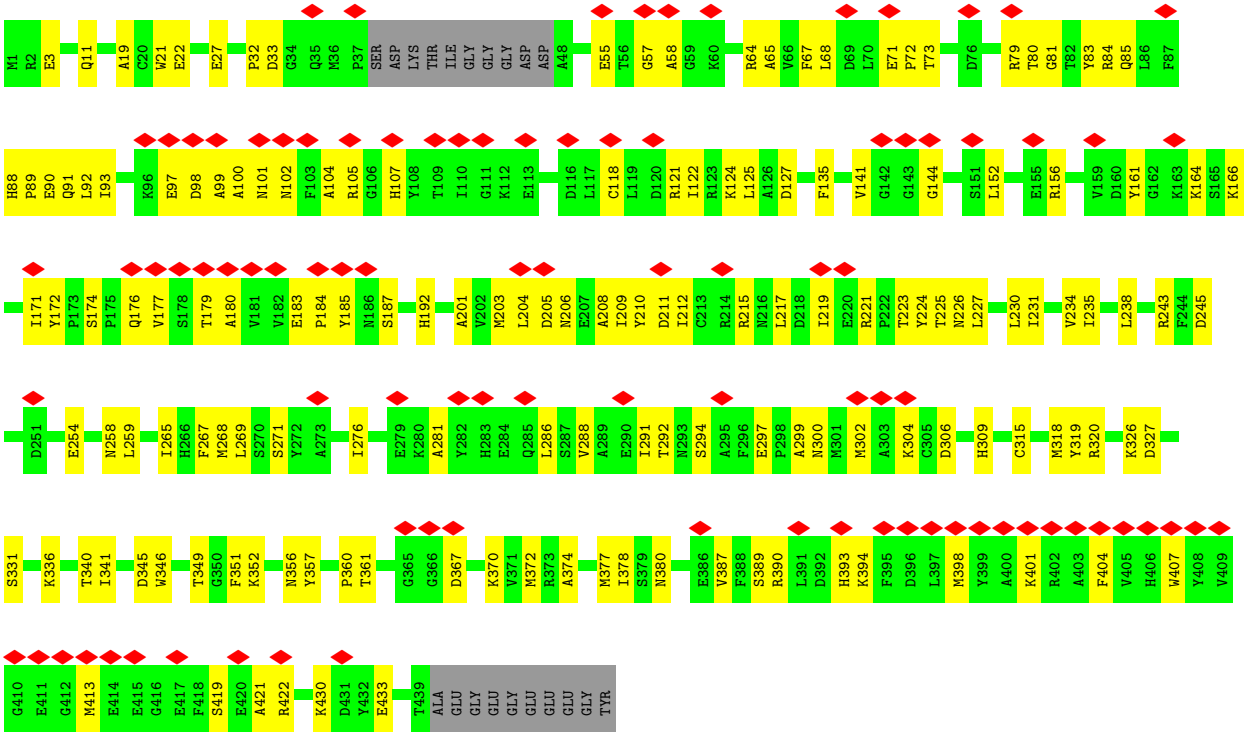




• Molecule 45: Tubulin alpha chain

Chain GA:

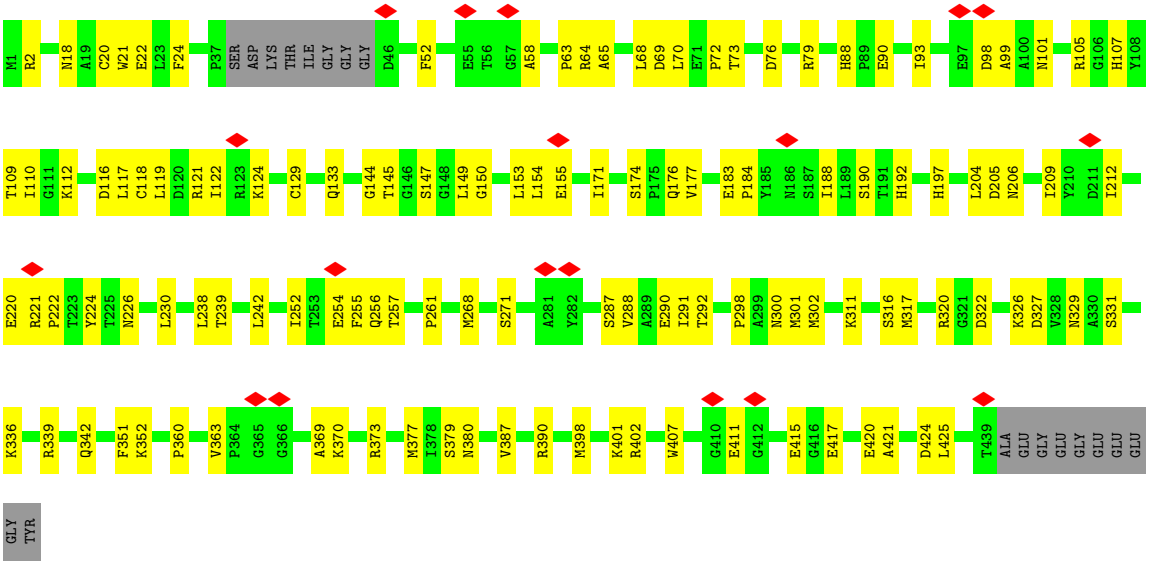




• Molecule 45: Tubulin alpha chain

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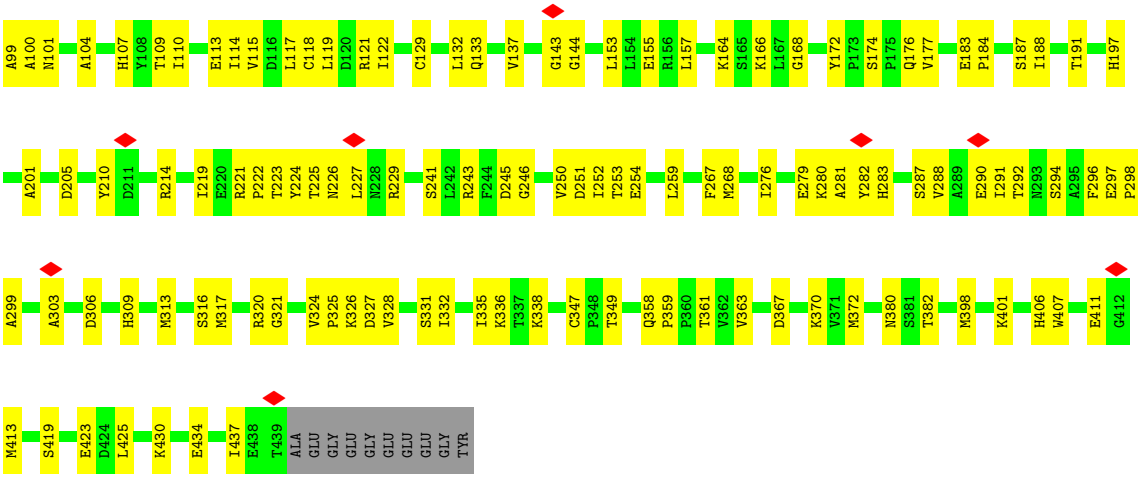


• Molecule 45: Tubulin alpha chain

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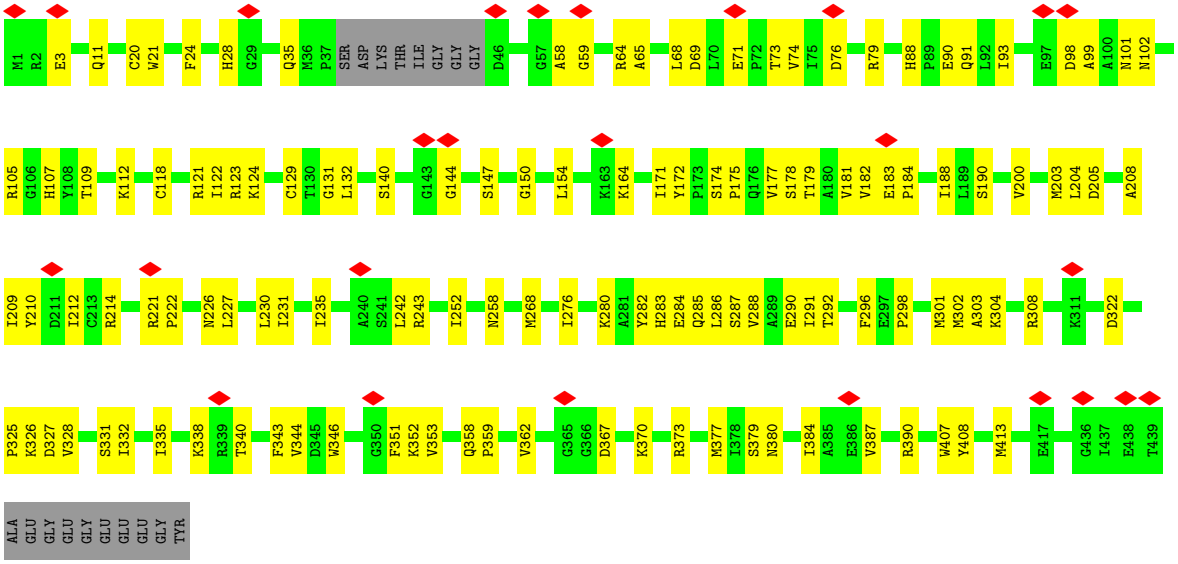




• Molecule 45: Tubulin alpha chain

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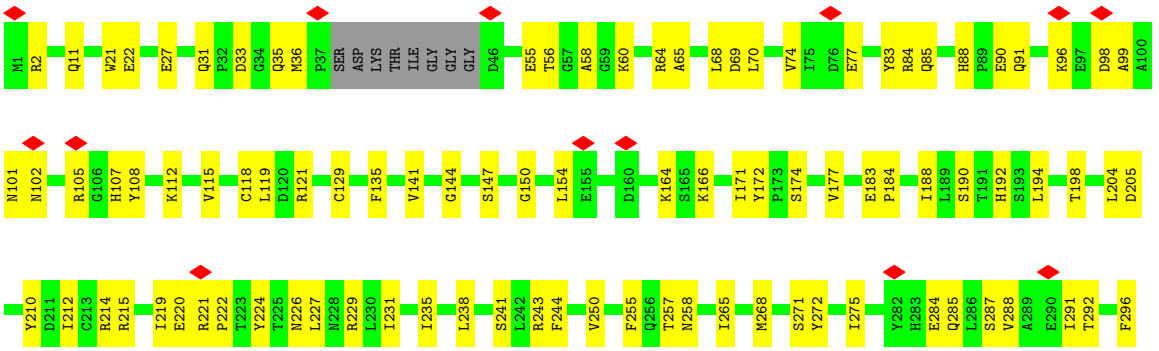


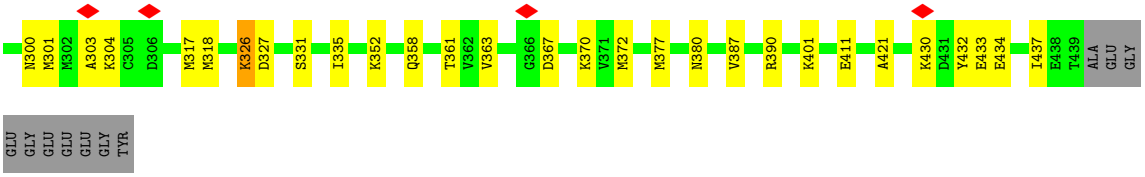


• Molecule 45: Tubulin alpha chain

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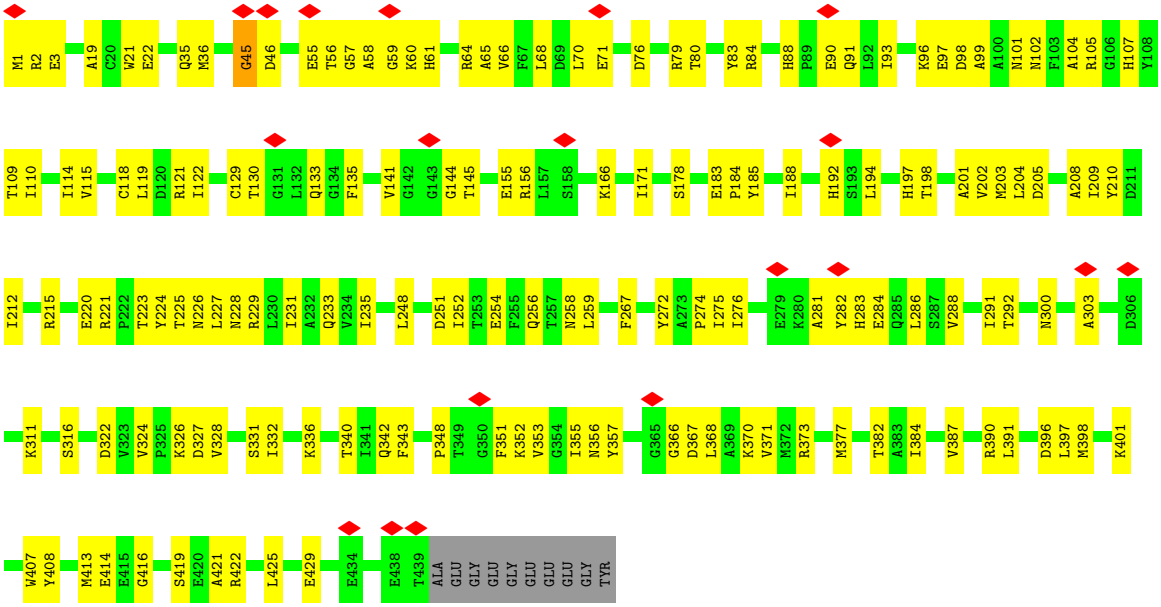




• Molecule 45: Tubulin alpha chain

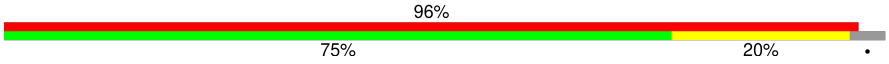
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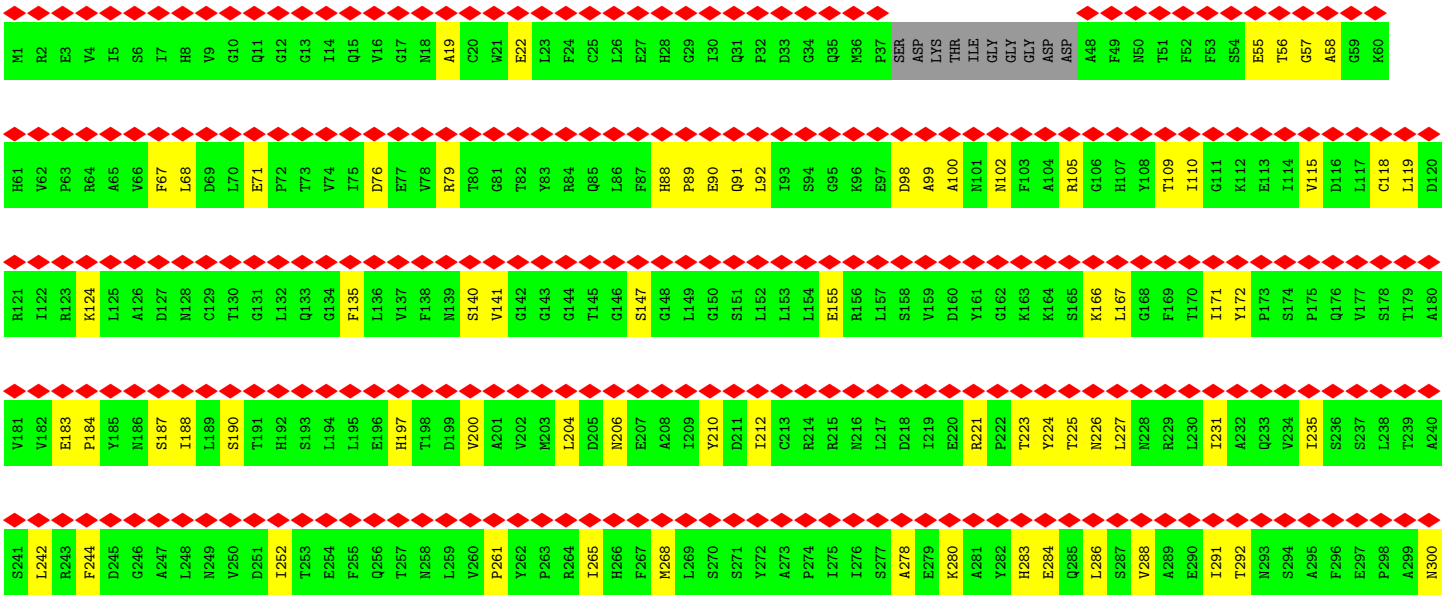


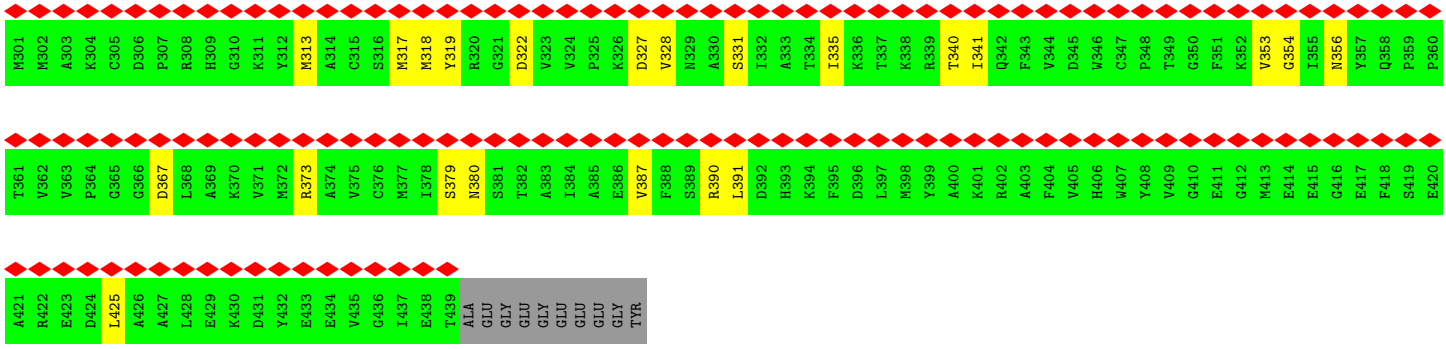


• Molecule 45: Tubulin alpha chain

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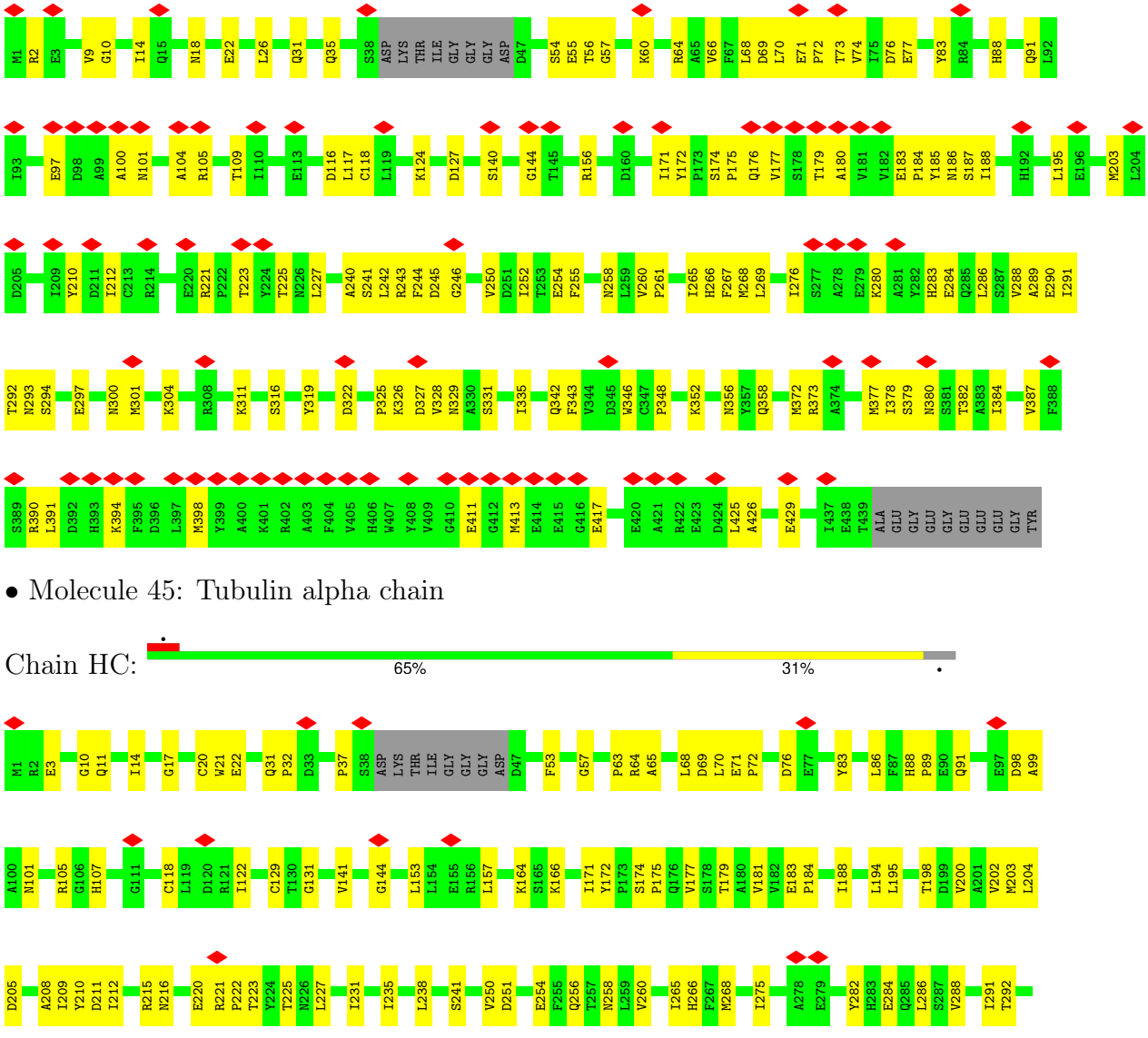




• Molecule 45: Tubulin alpha chain

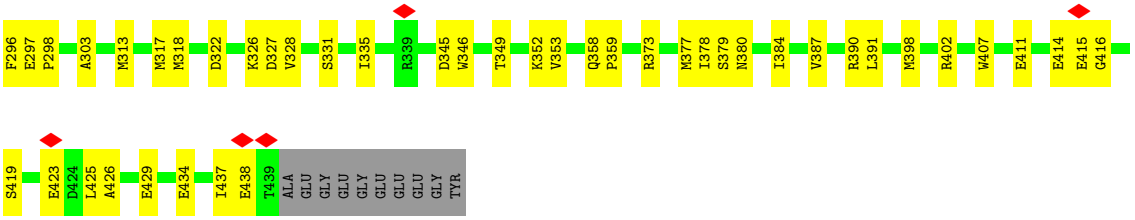
Chain HA:





• Molecule 45: Tubulin alpha chain

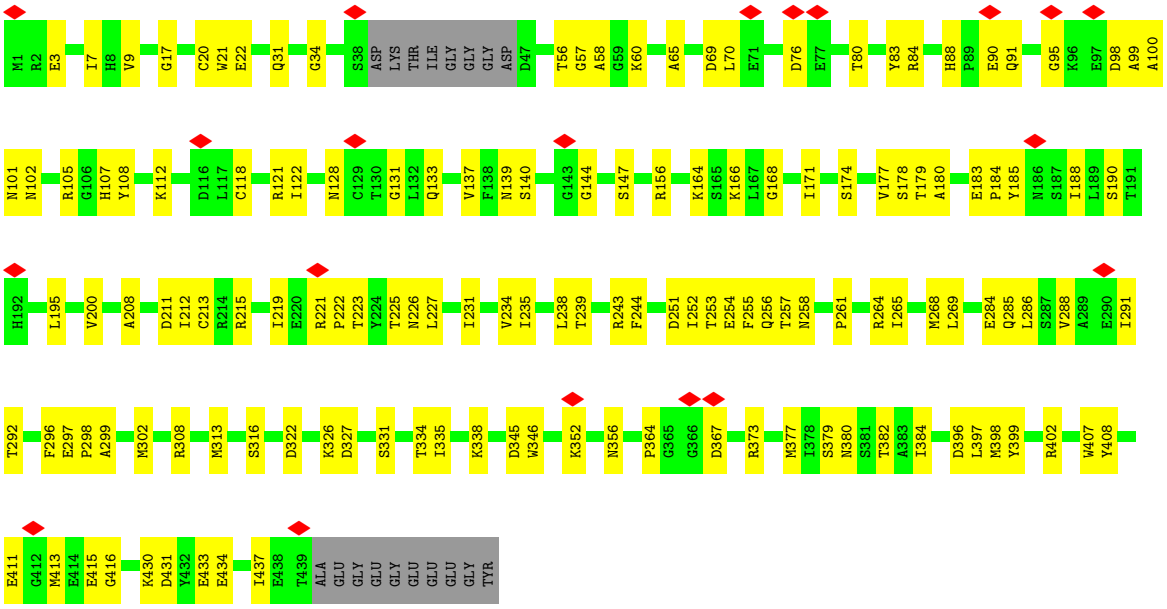
Chain HC:



• Molecule 45: Tubulin alpha chain

Chain HE:

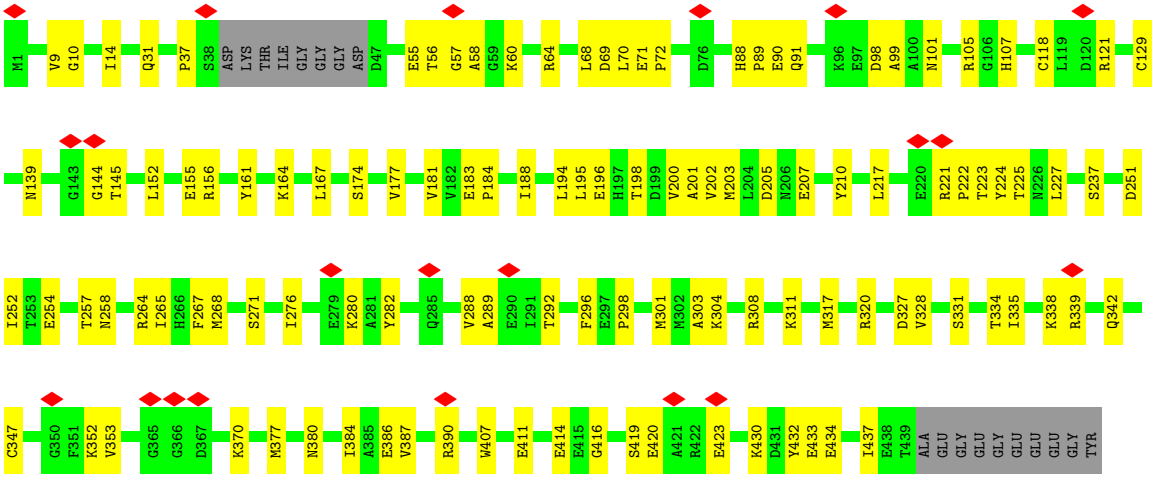




• Molecule 45: Tubulin alpha chain

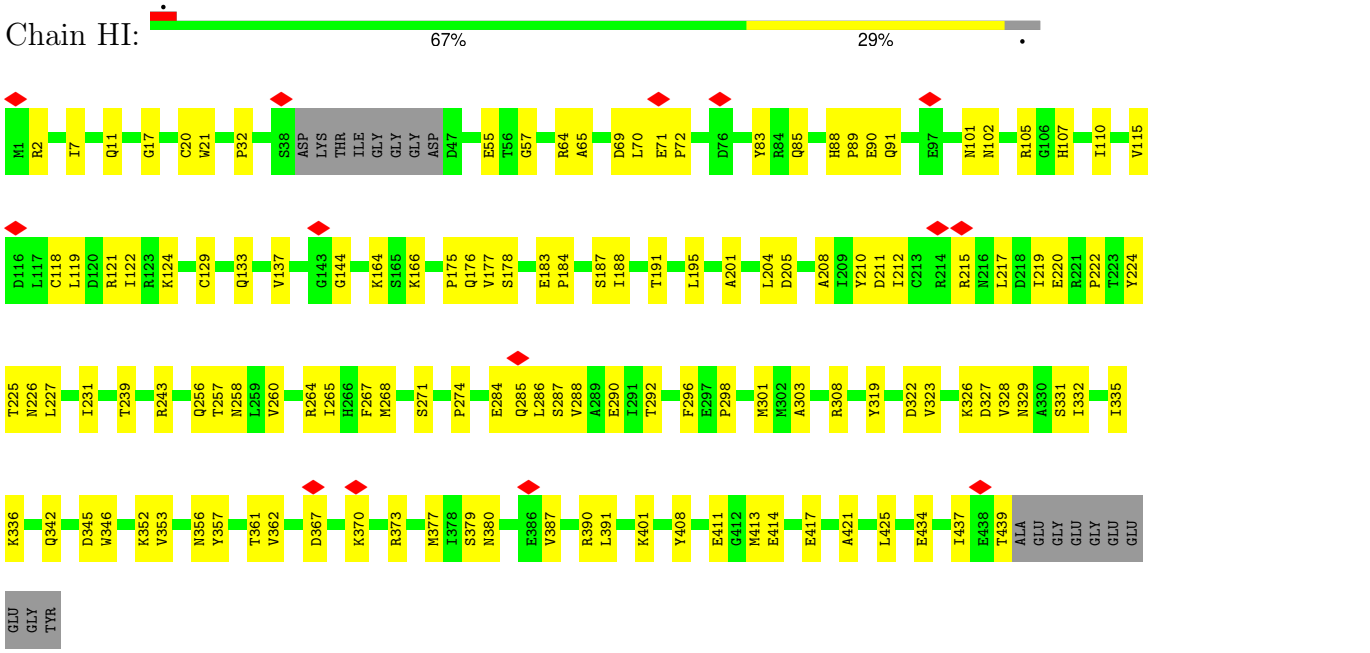
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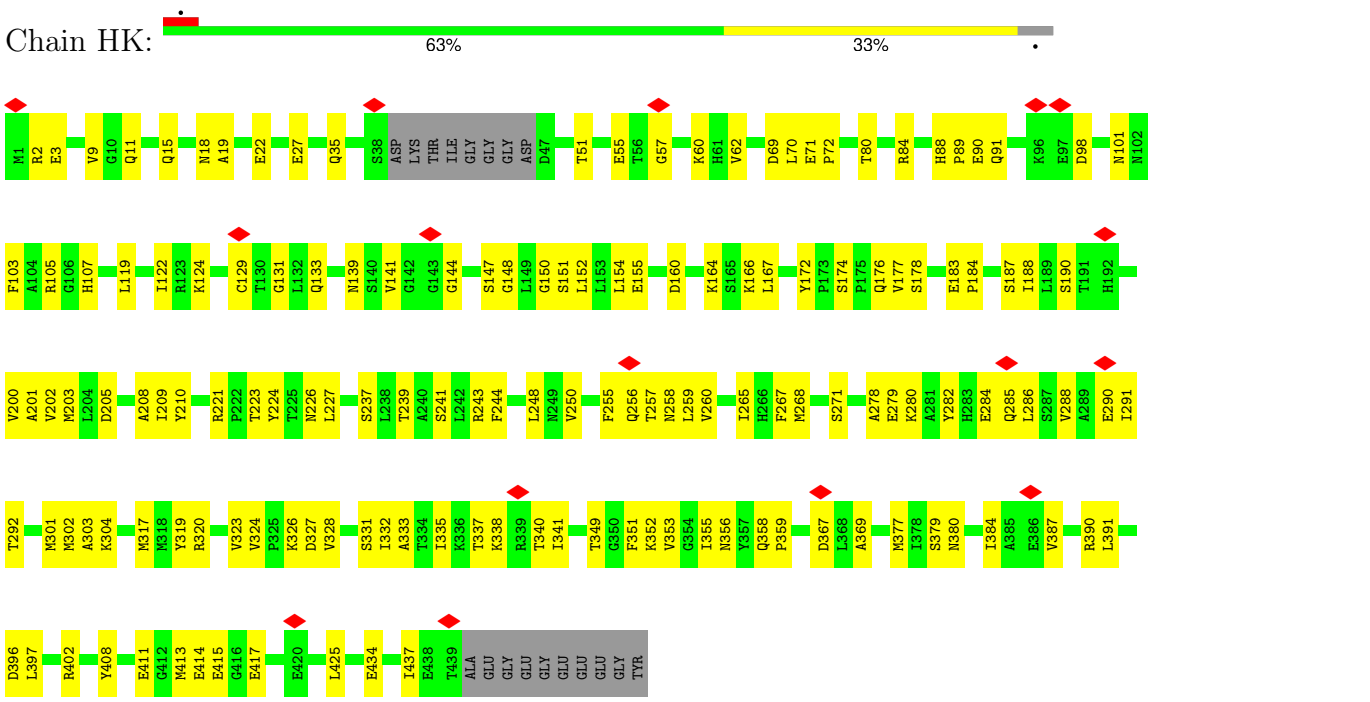
• Molecule 45: Tubulin alpha chain

Chain HI:



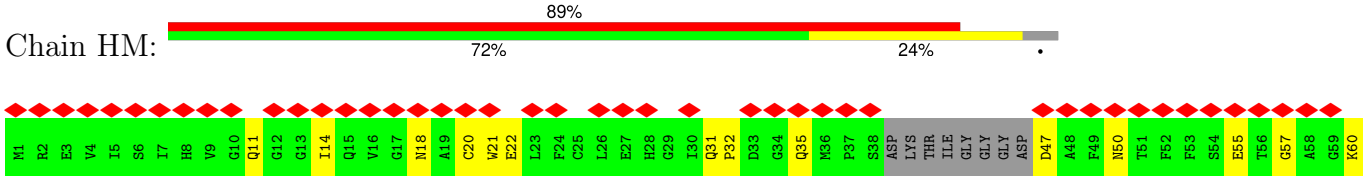
• Molecule 45: Tubulin alpha chain

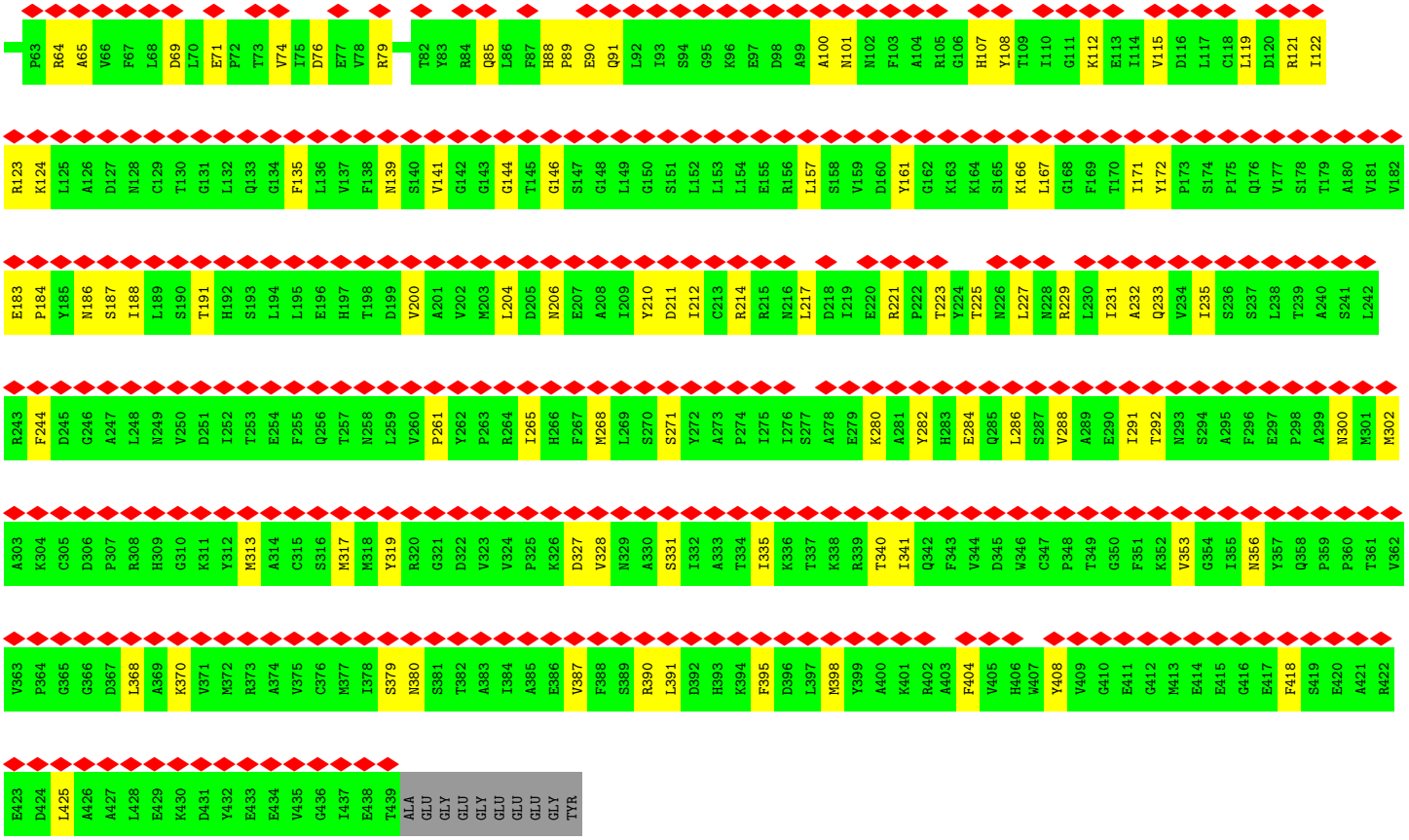
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• Molecule 45: Tubulin alpha chain

Chain HM:

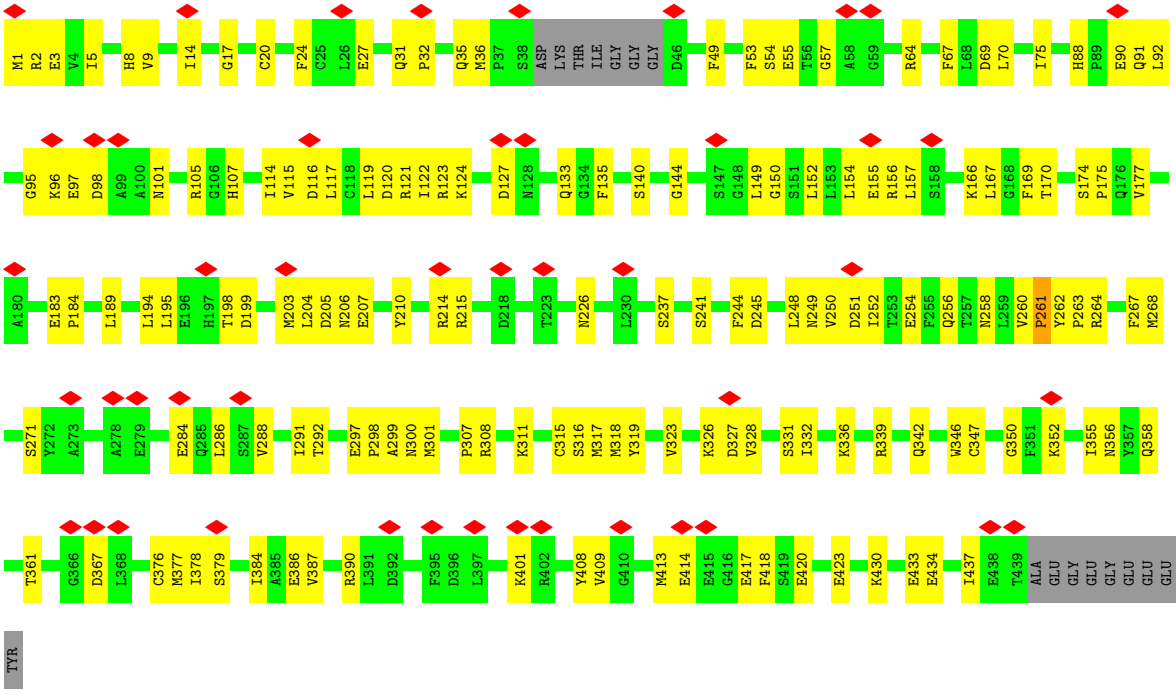




- Molecule 45: Tubulin alpha chain

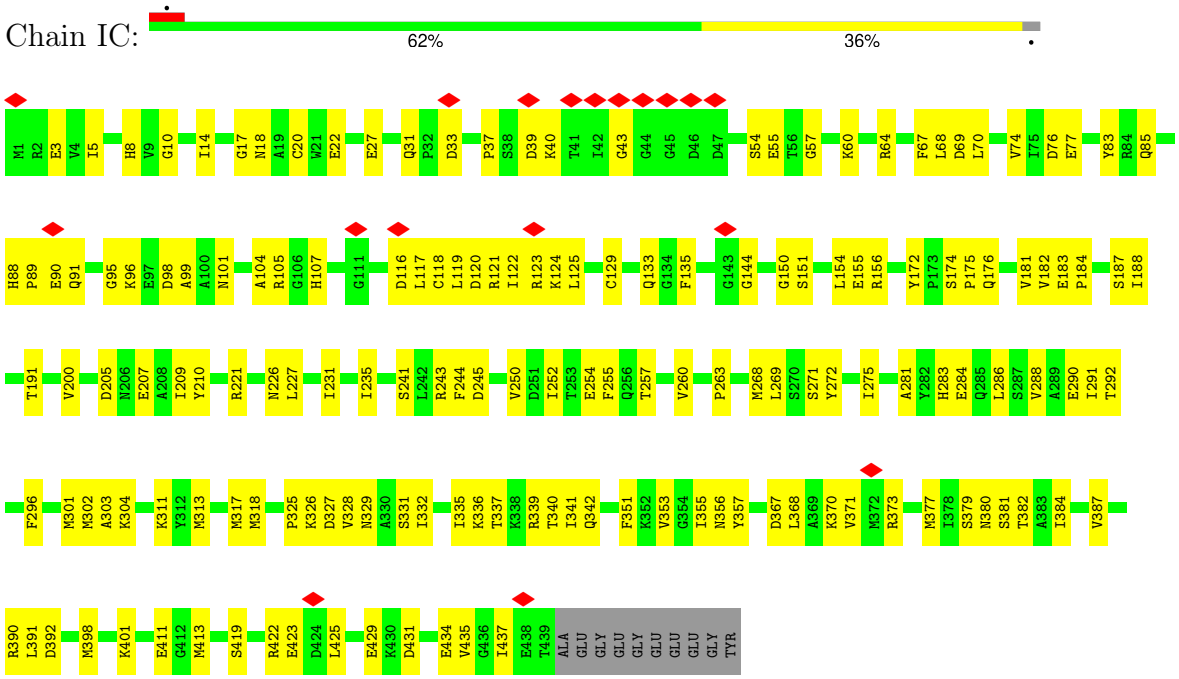
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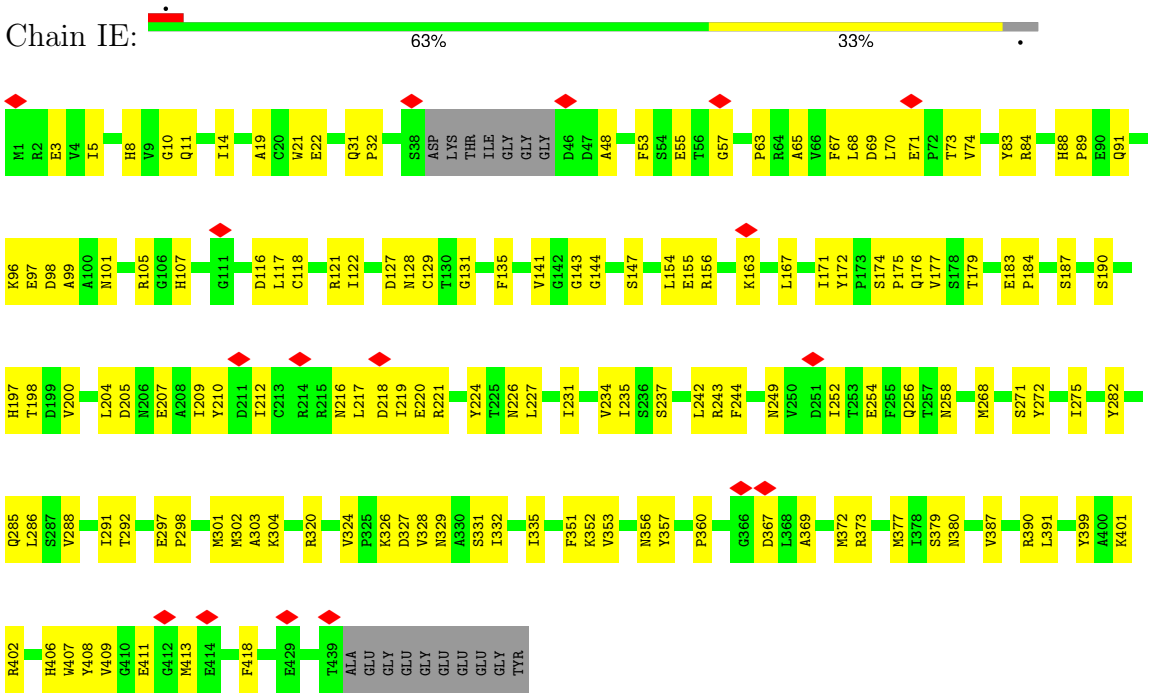
• Molecule 45: Tubulin alpha chain

Chain IC:



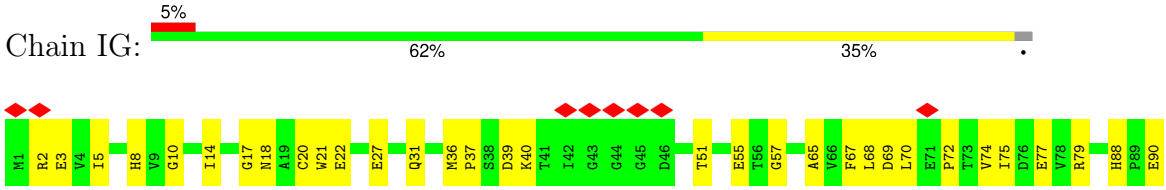
• Molecule 45: Tubulin alpha chain

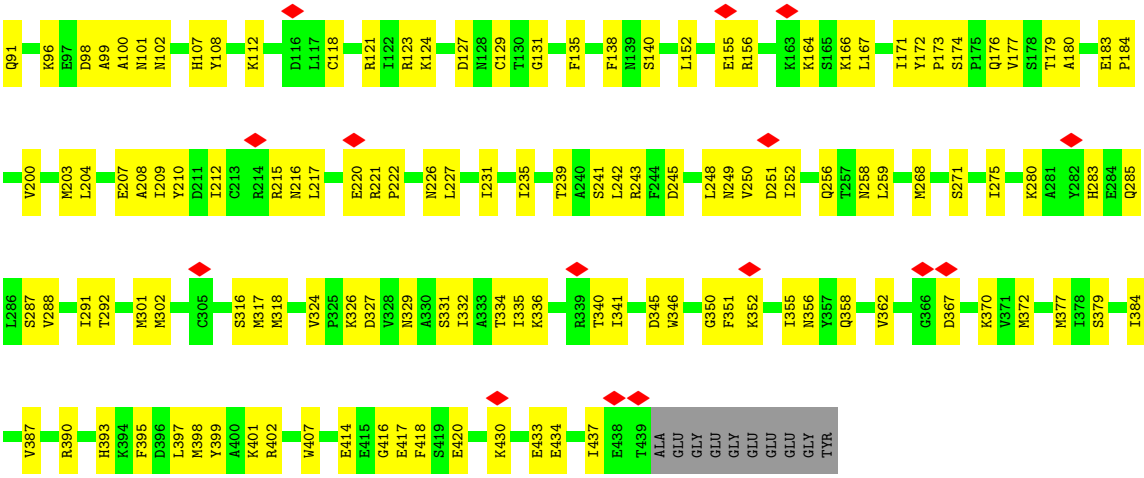
Chain IE:



• Molecule 45: Tubulin alpha chain

Chain IG:

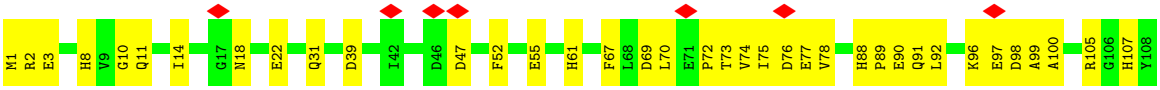


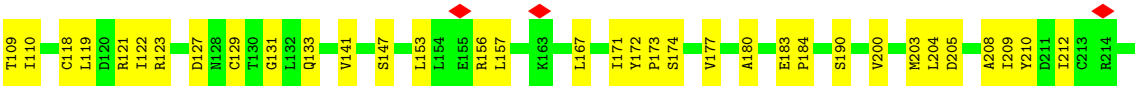


• Molecule 45: Tubulin alpha chain

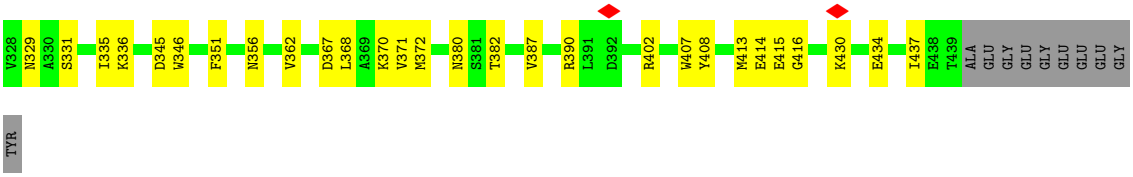
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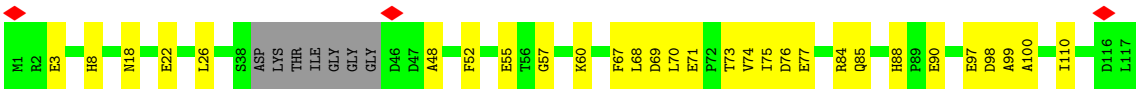


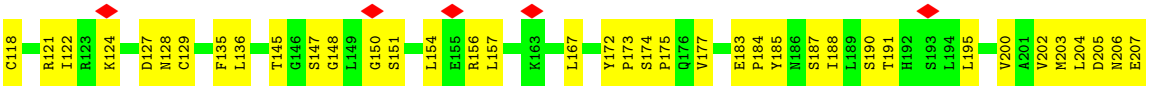


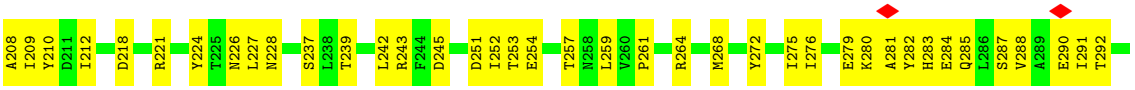
• Molecule 45: Tubulin alpha chain

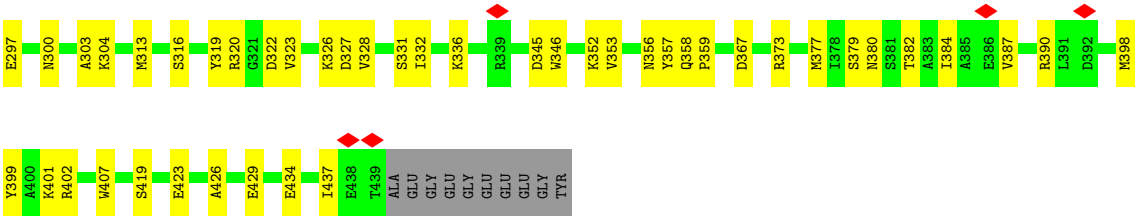
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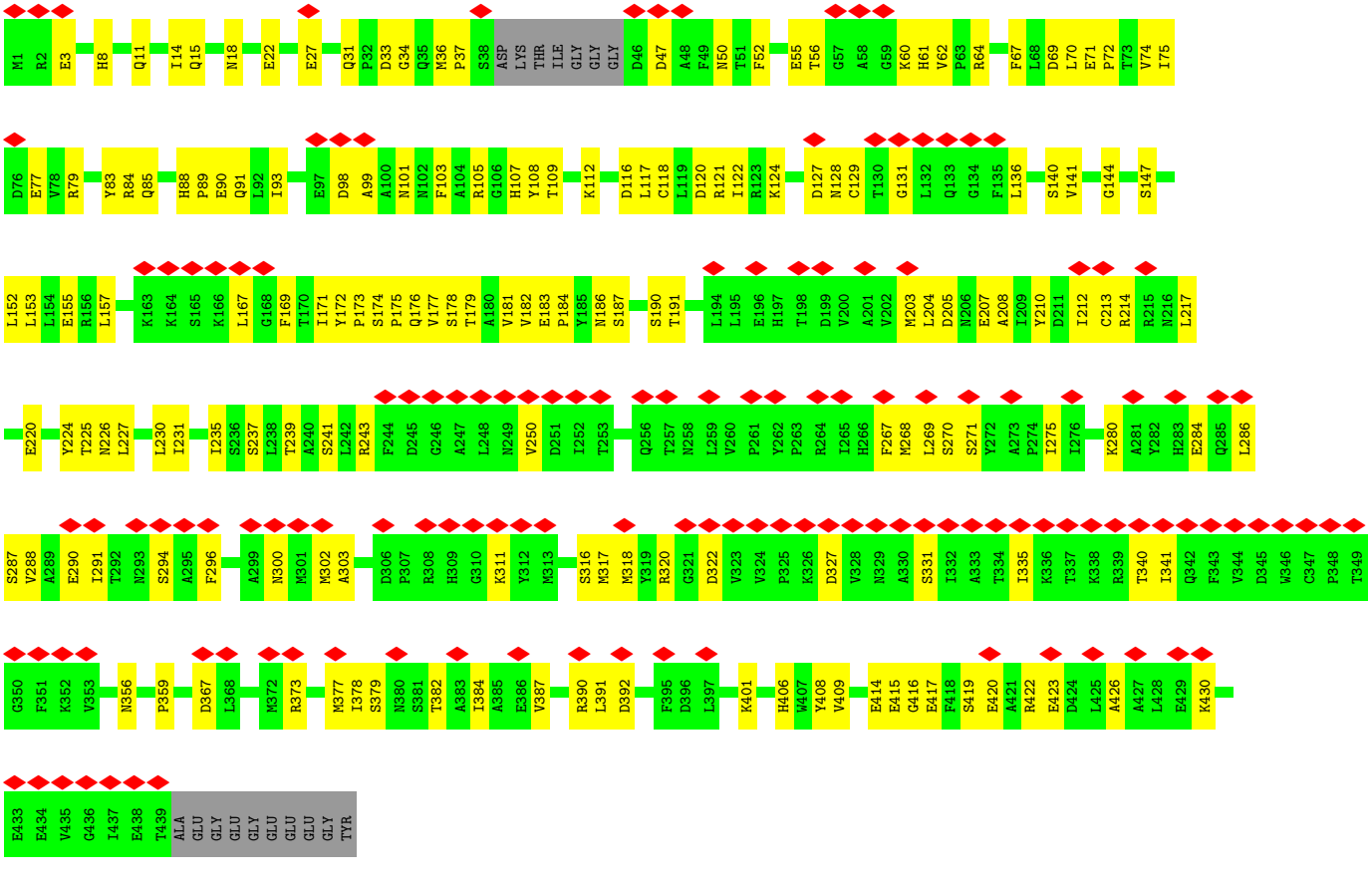




• Molecule 45: Tubulin alpha chain

Chain IM:

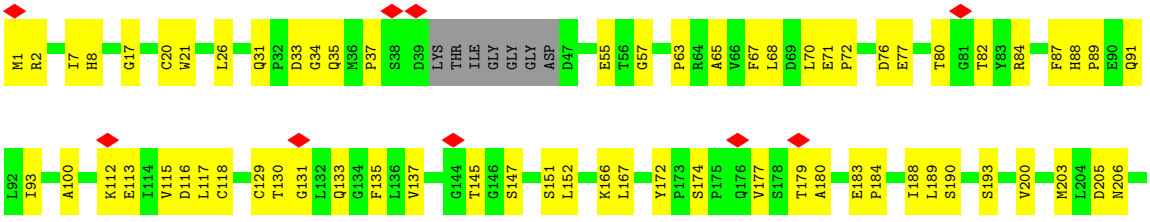


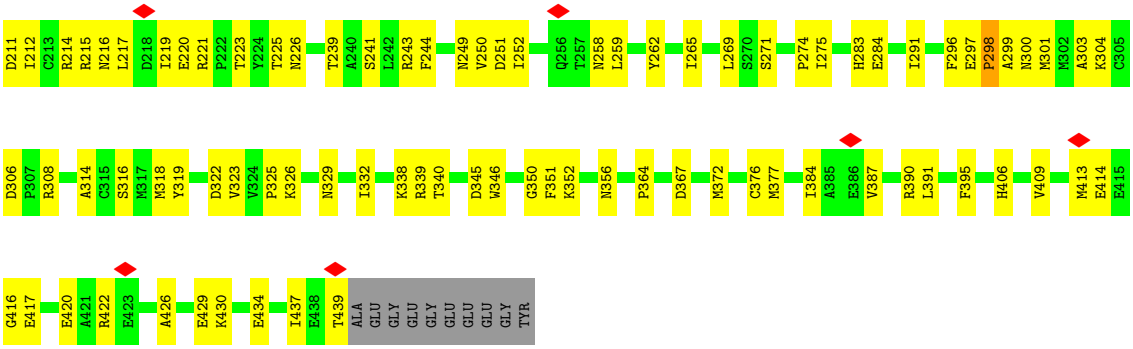


• Molecule 45: Tubulin alpha chain

Chain JA:



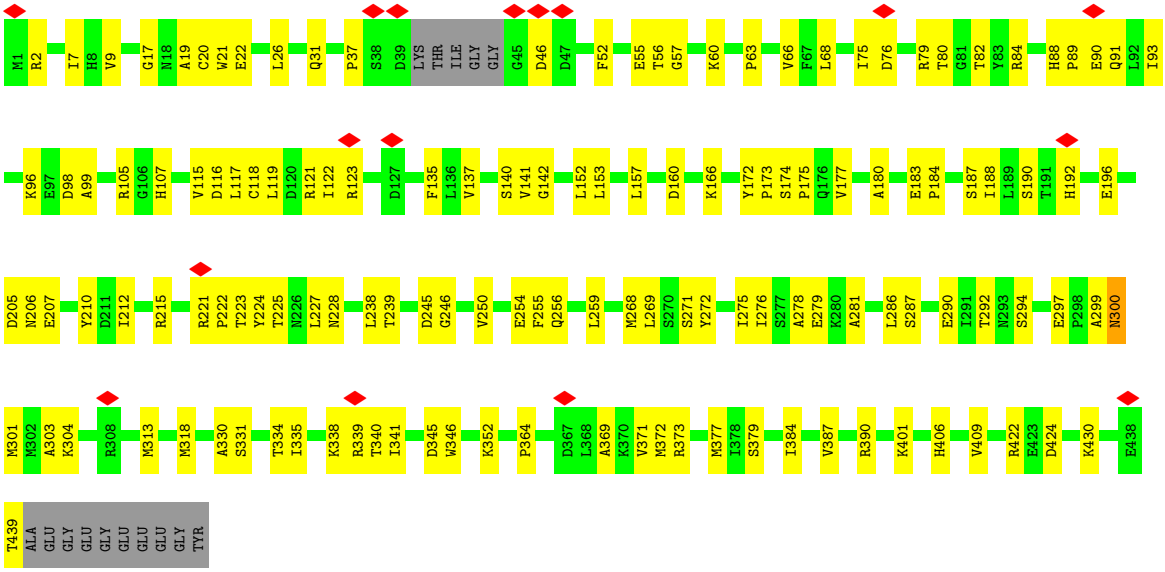




• Molecule 45: Tubulin alpha chain

Chain JC:

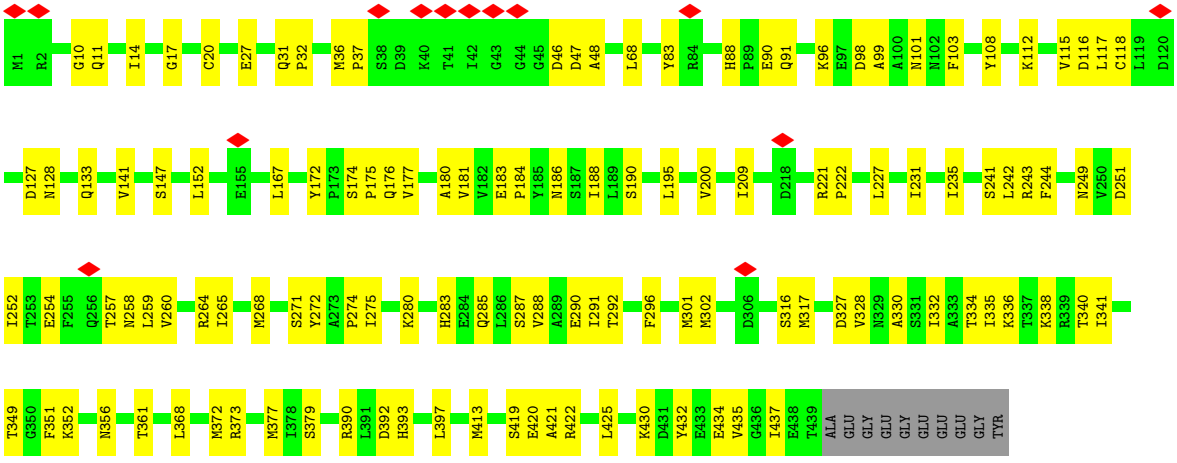




• Molecule 45: Tubulin alpha chain

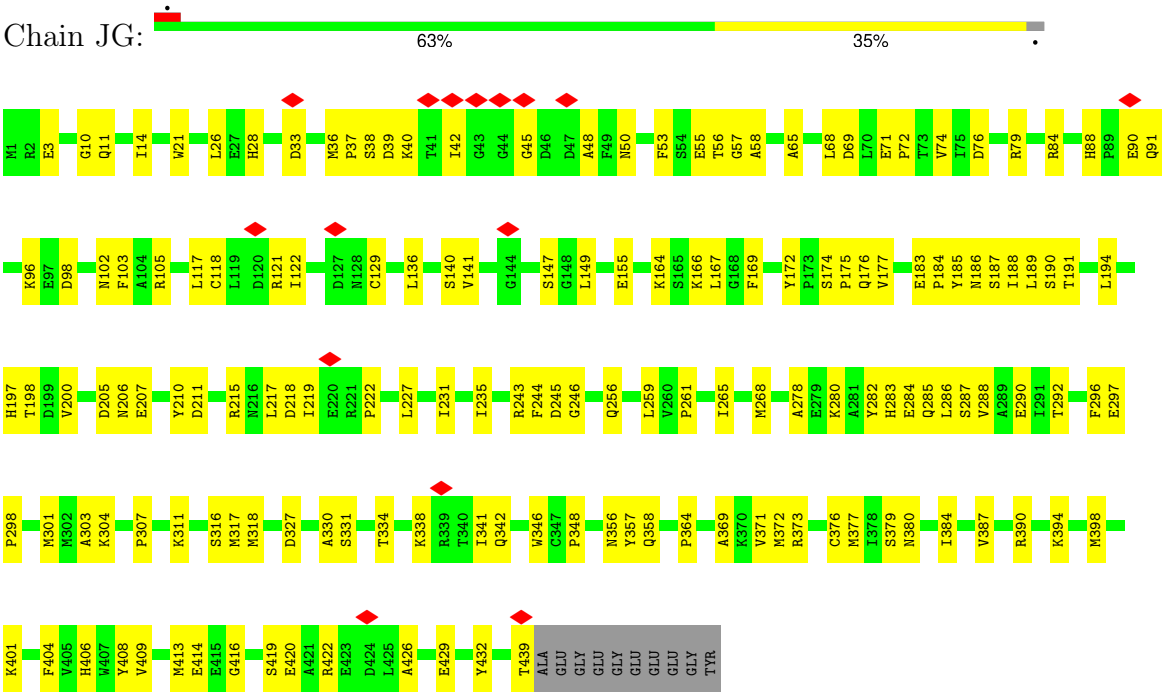
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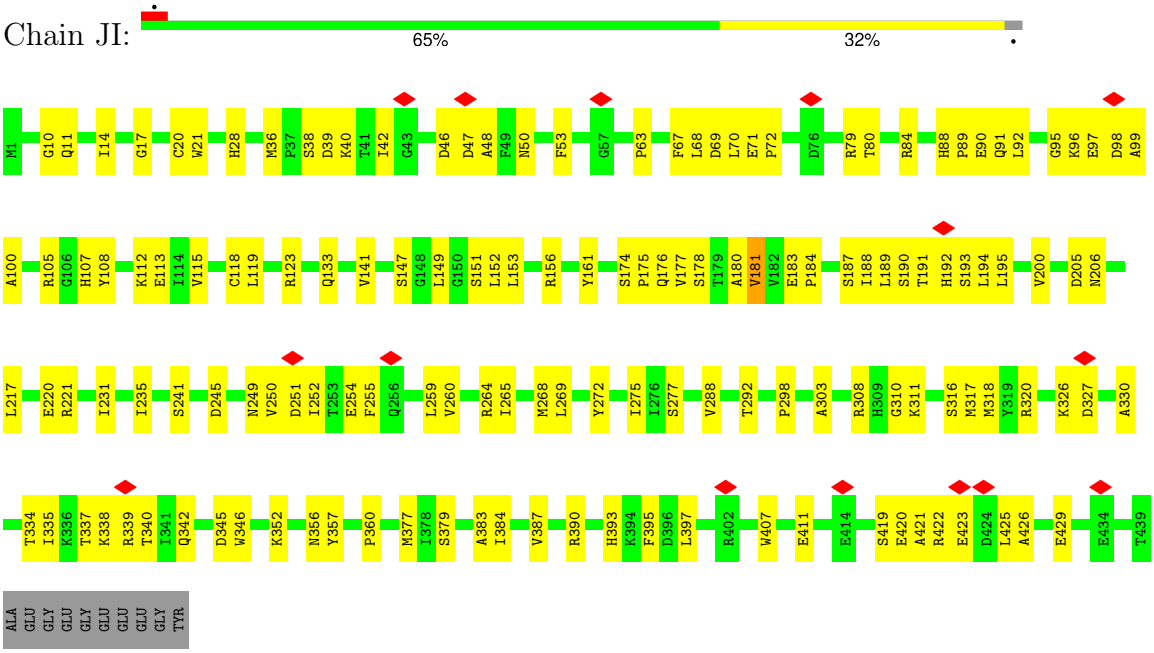
• Molecule 45: Tubulin alpha chain

Chain JG:



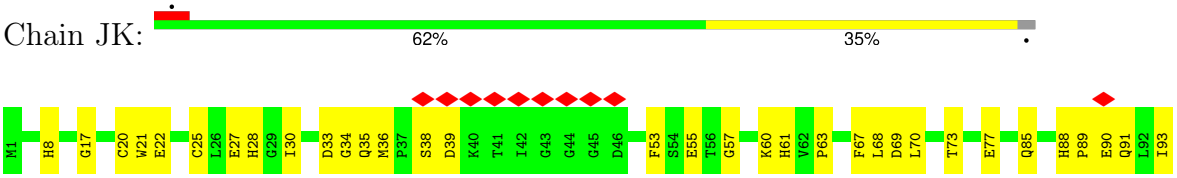
• Molecule 45: Tubulin alpha chain

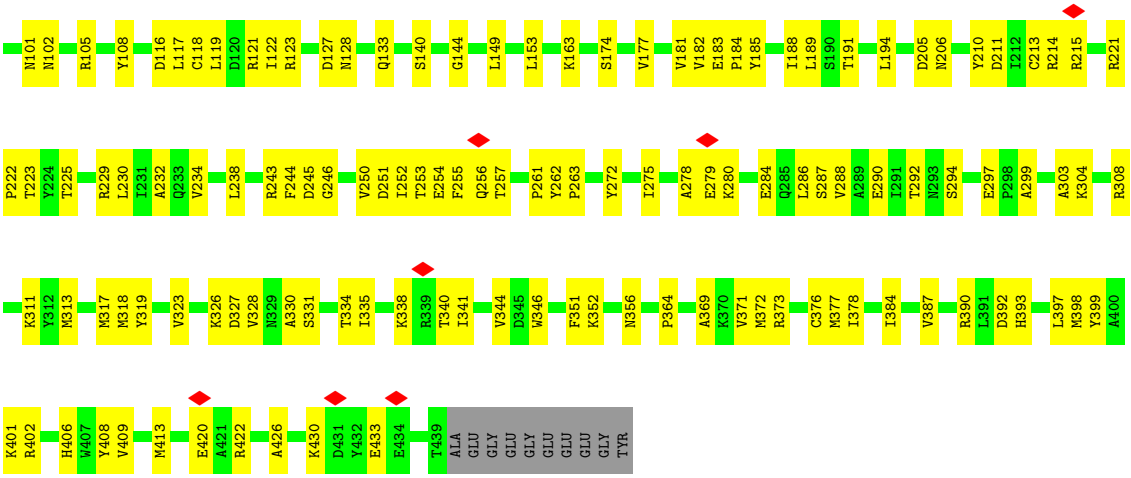
Chain JI:



• Molecule 45: Tubulin alpha chain

Chain JK:

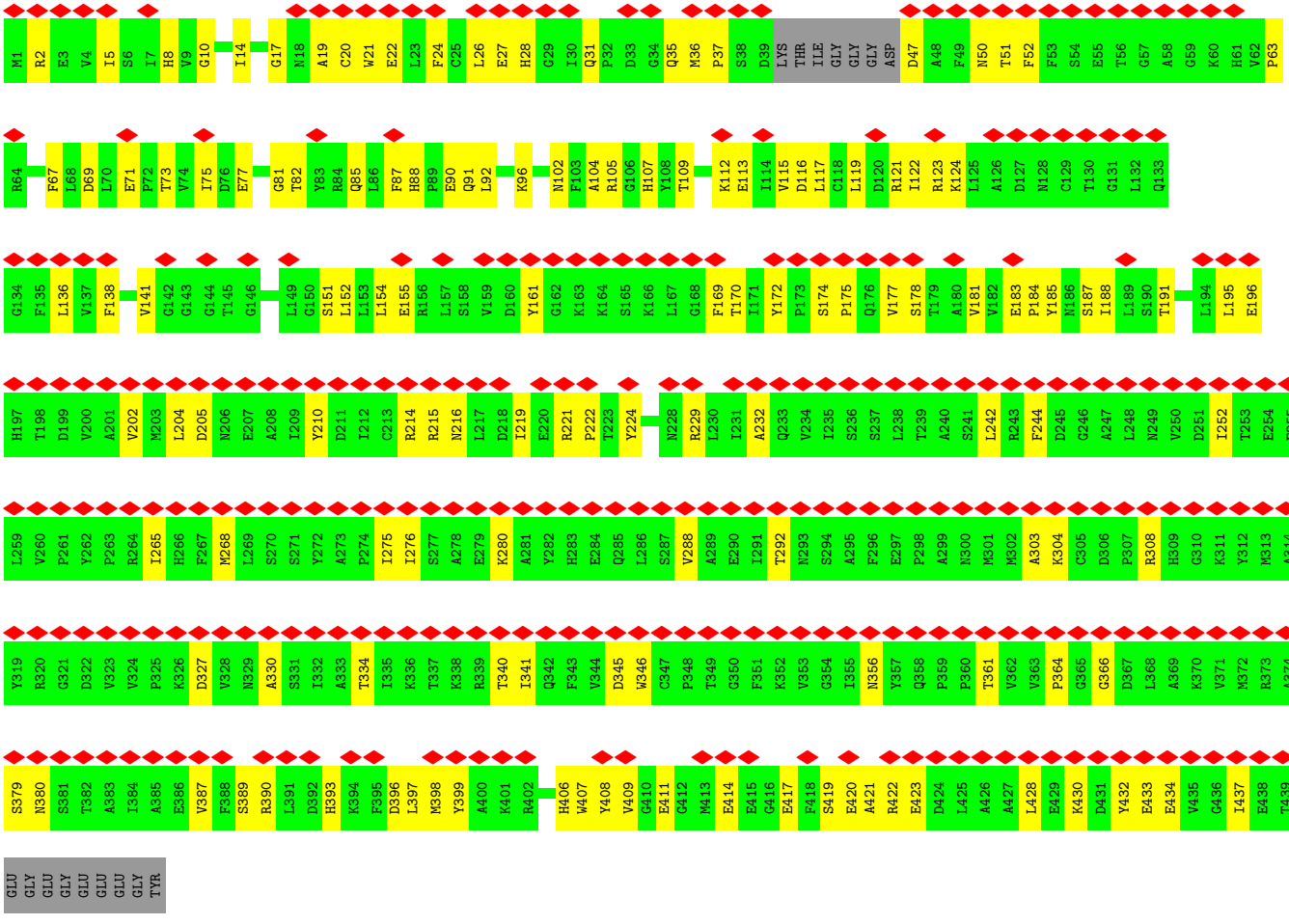




• Molecule 45: Tubulin alpha chain

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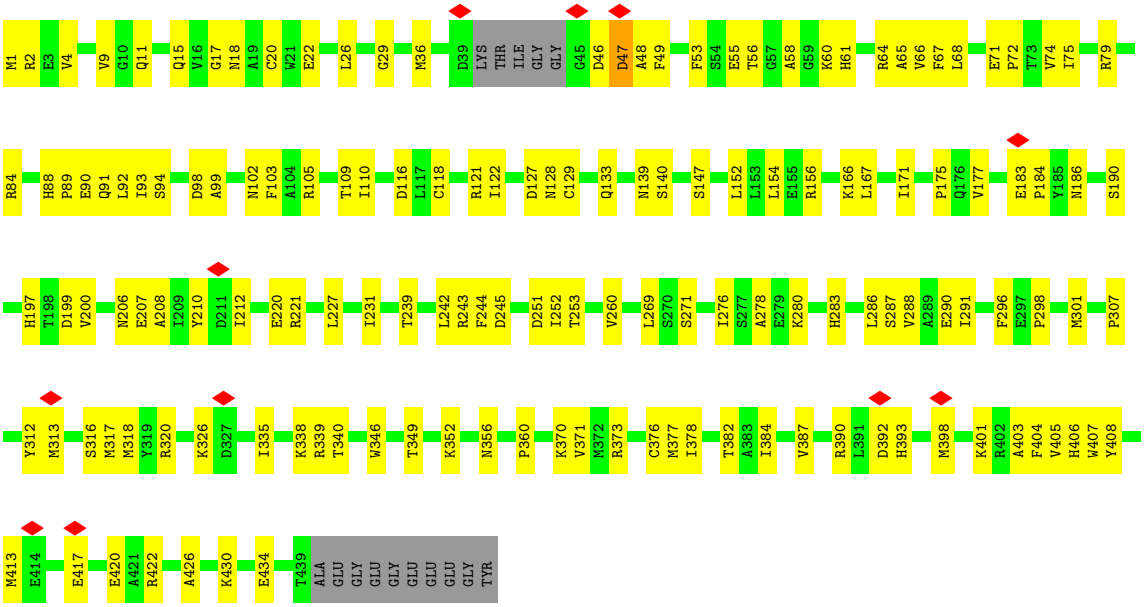




• Molecule 45: Tubulin alpha chain

Chain KA:

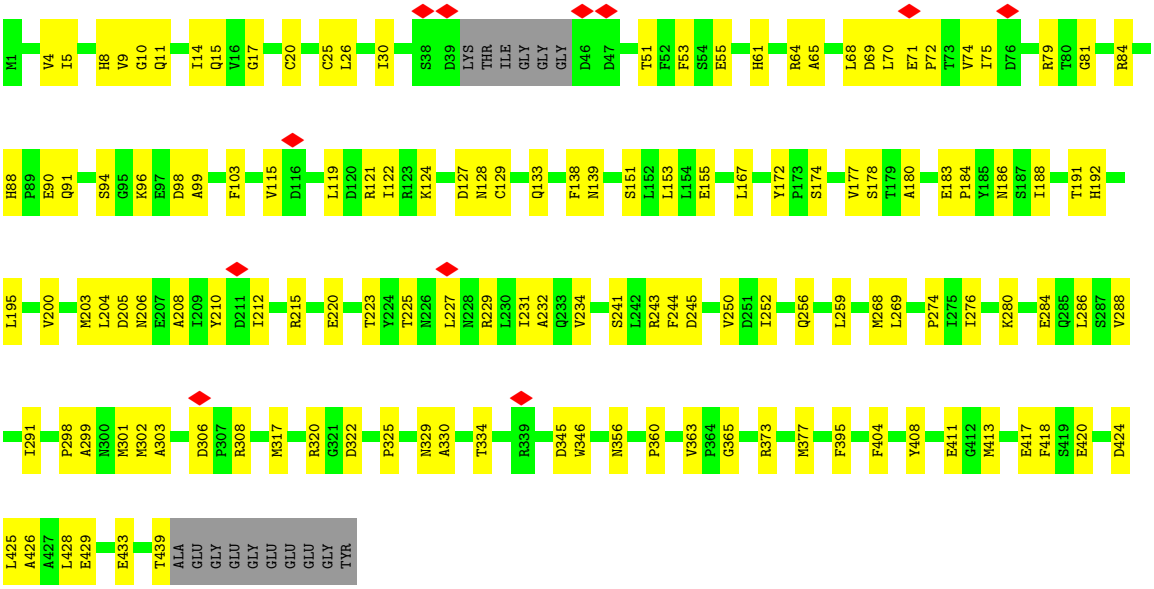




• Molecule 45: Tubulin alpha chain

Chain KC:

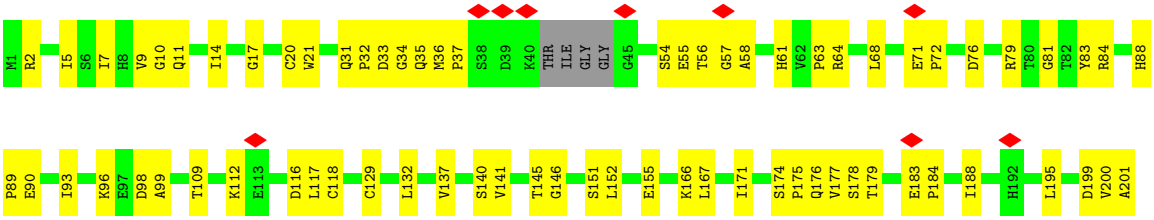


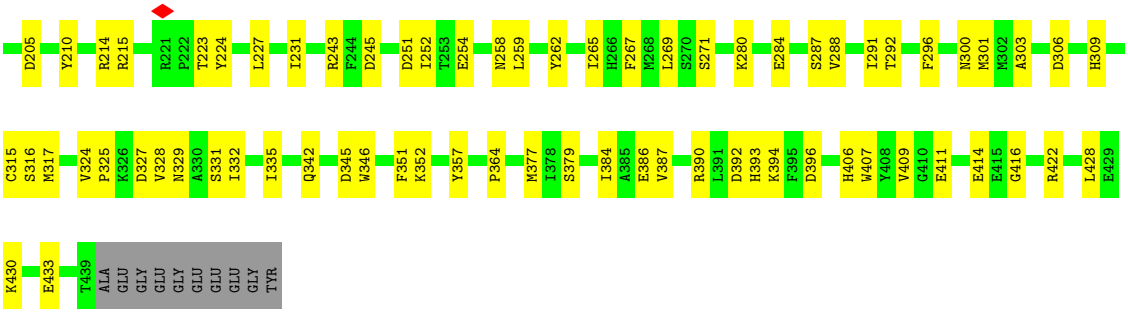


• Molecule 45: Tubulin alpha chain

Chain KE:



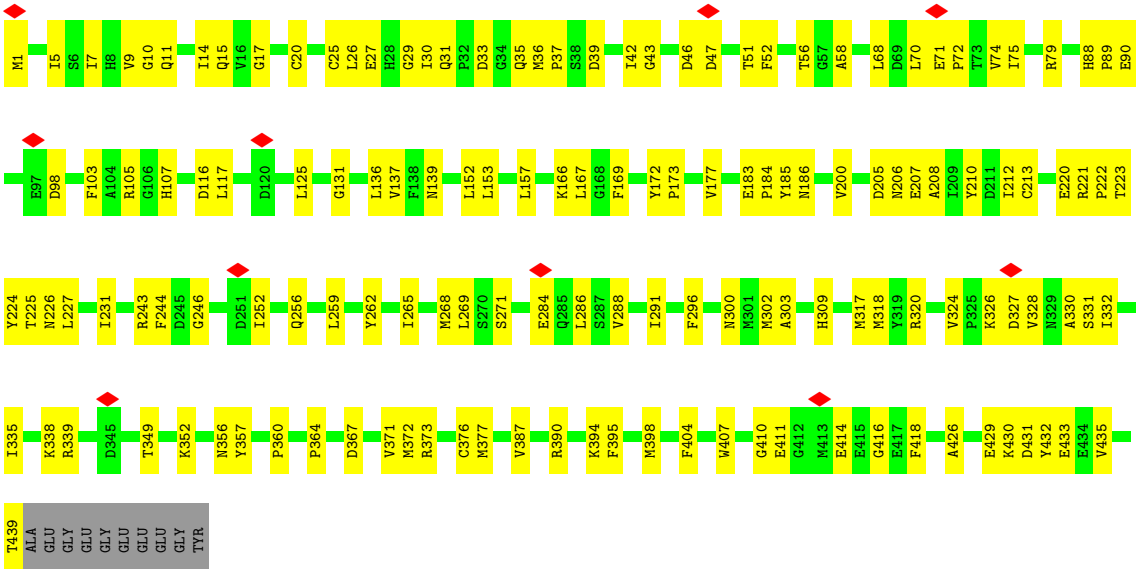




• Molecule 45: Tubulin alpha chain

Chain KG:

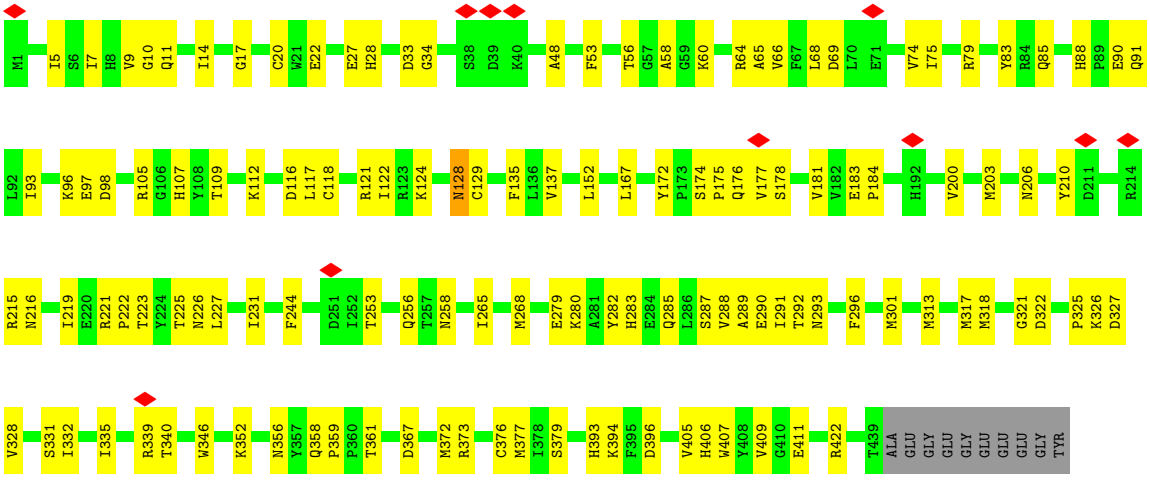




• Molecule 45: Tubulin alpha chain

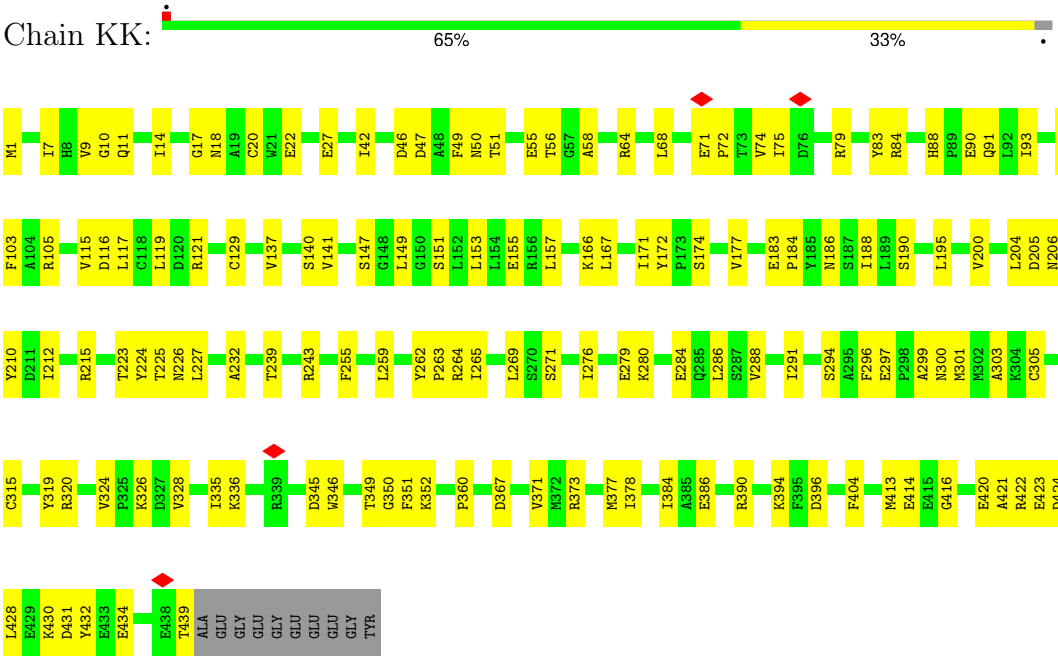
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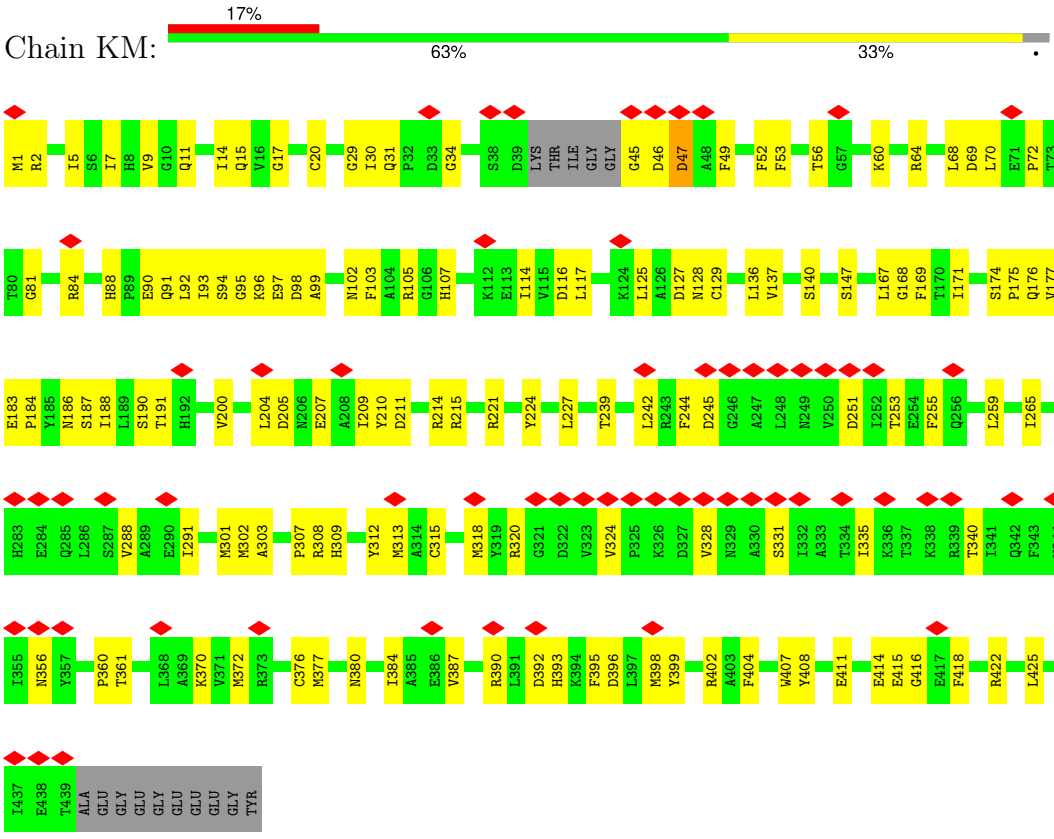
• Molecule 45: Tubulin alpha chain

Chain KK:



• Molecule 45: Tubulin alpha chain

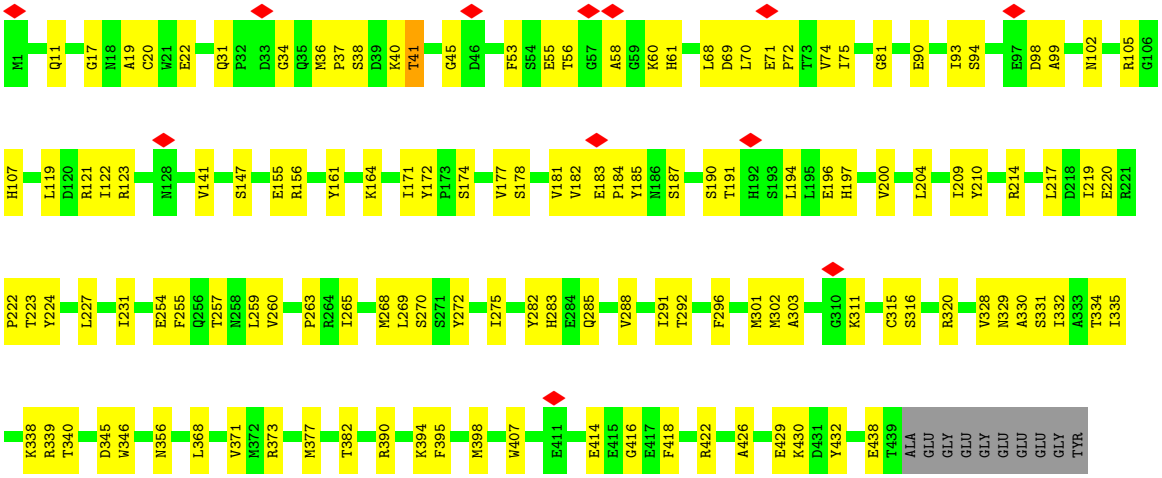
Chain KM:



• Molecule 45: Tubulin alpha chain

Chain LA:

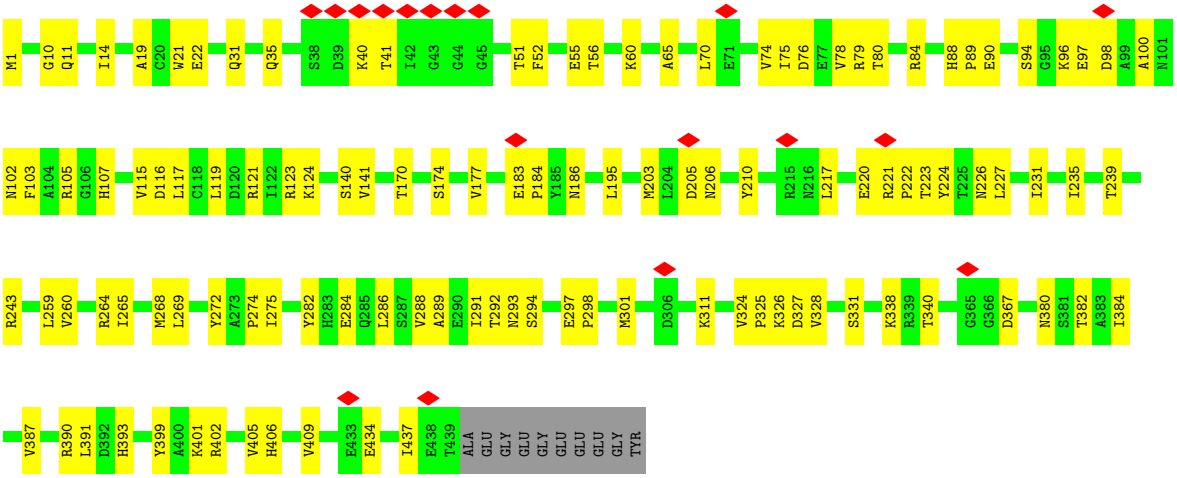




• Molecule 45: Tubulin alpha chain

Chain LC:

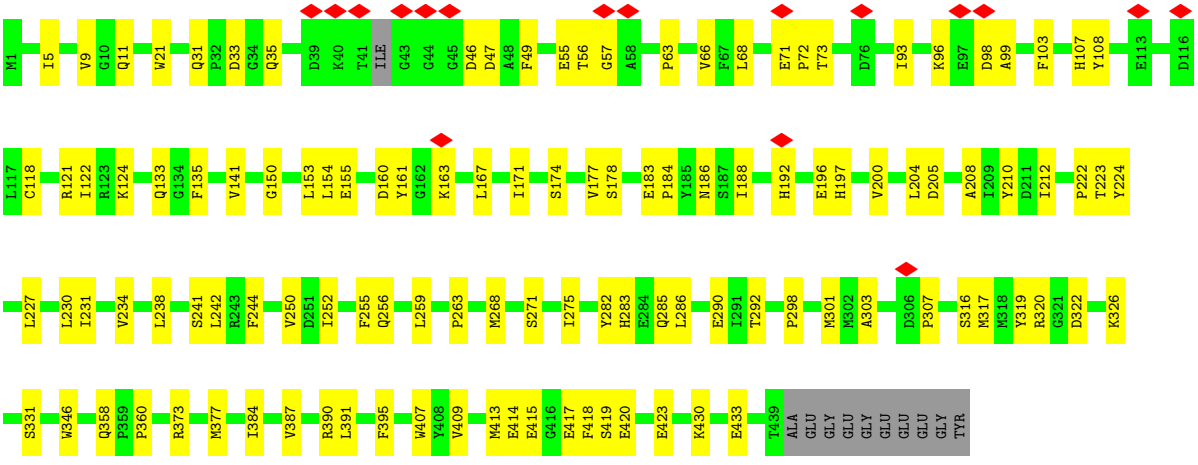




• Molecule 45: Tubulin alpha chain

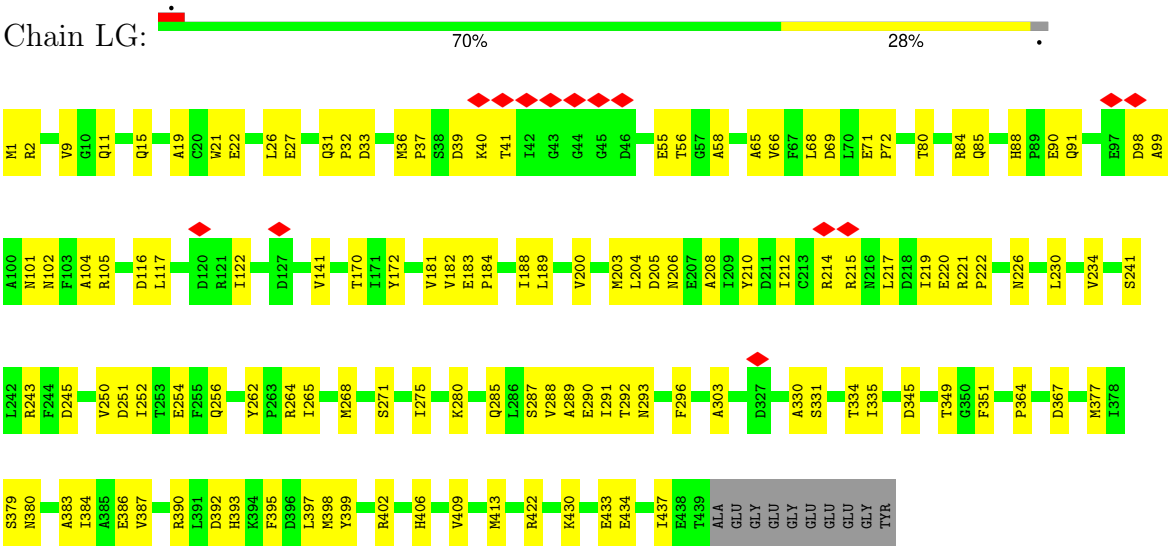
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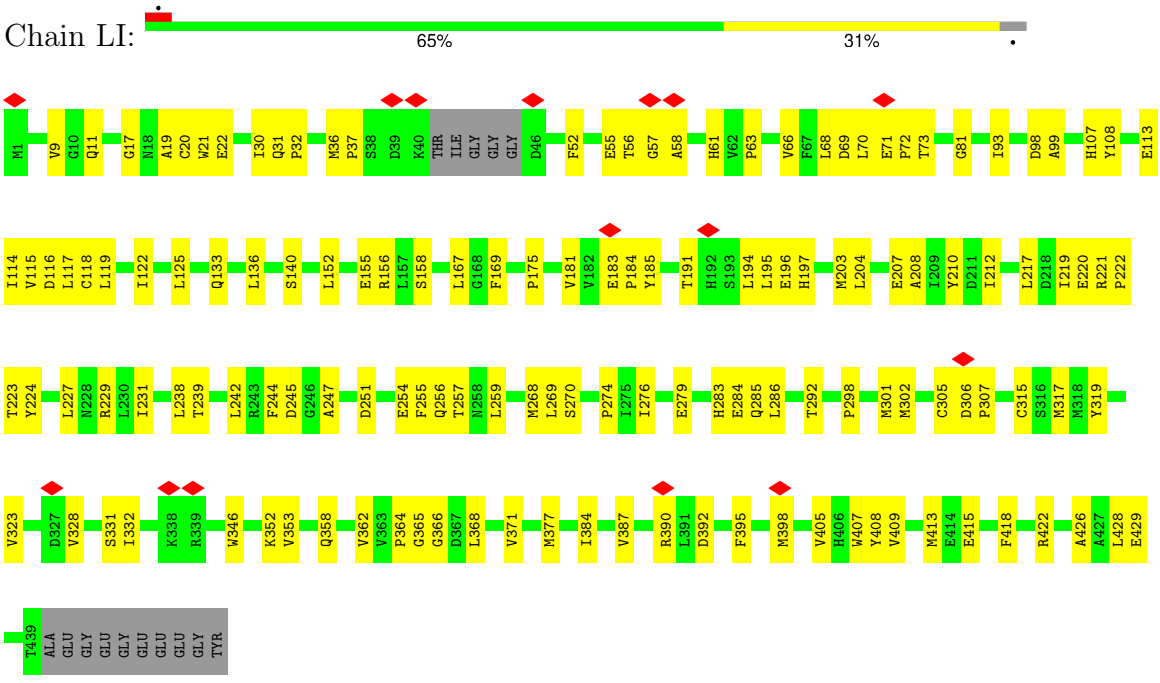
• Molecule 45: Tubulin alpha chain

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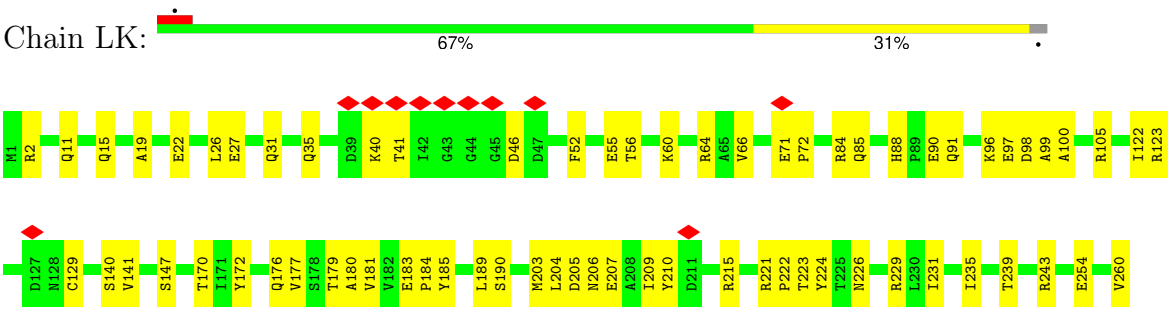
• Molecule 45: Tubulin alpha chain

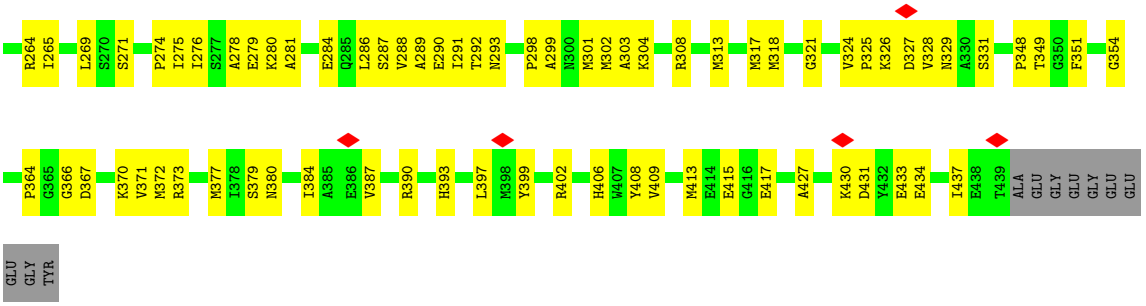
Chain LI:



• Molecule 45: Tubulin alpha chain

Chain LK:

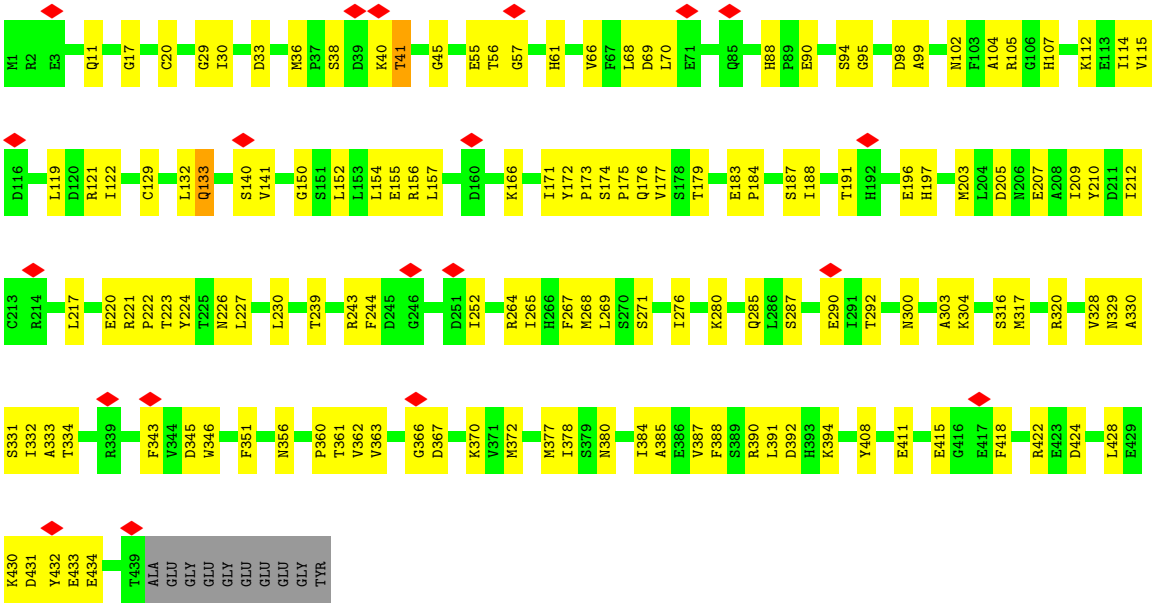




• Molecule 45: Tubulin alpha chain

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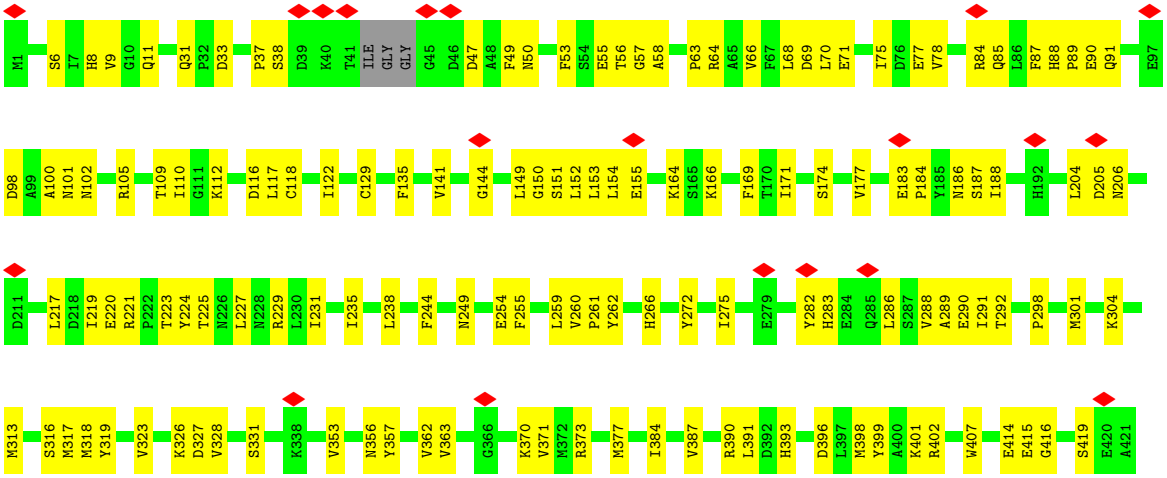


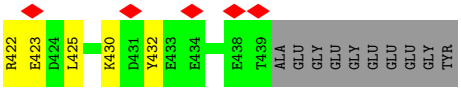


• Molecule 45: Tubulin alpha chain

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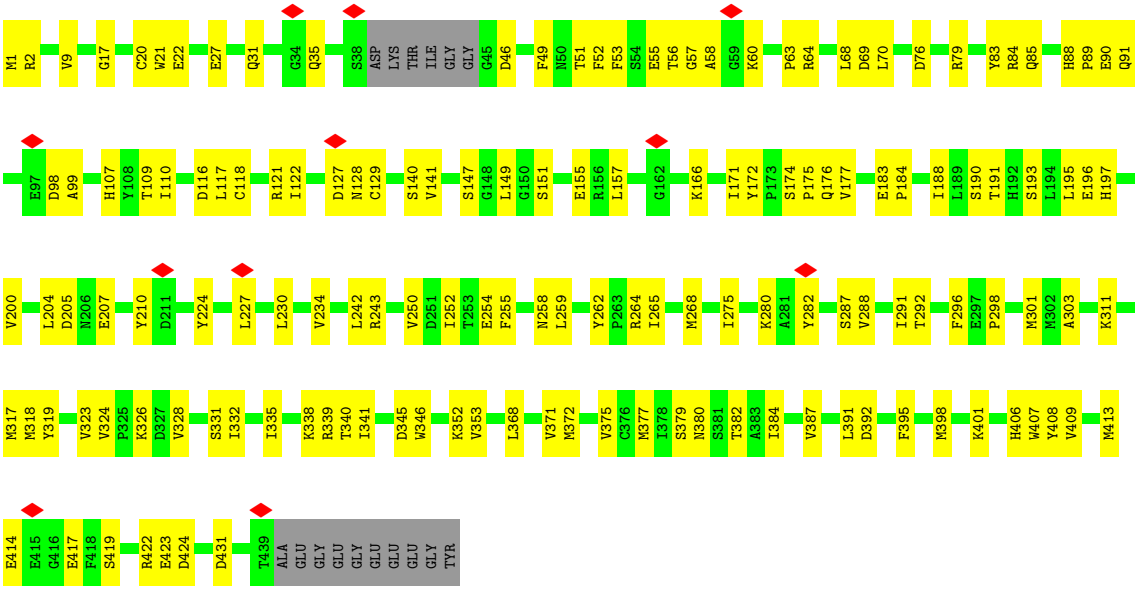




• Molecule 45: Tubulin alpha chain

Chain MC:

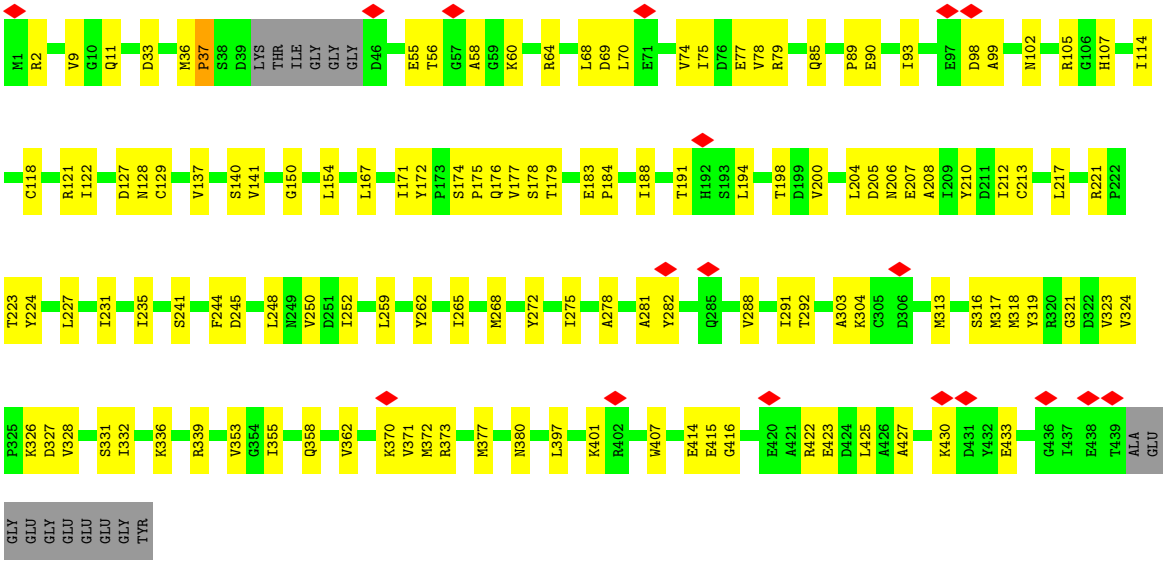




• Molecule 45: Tubulin alpha chain

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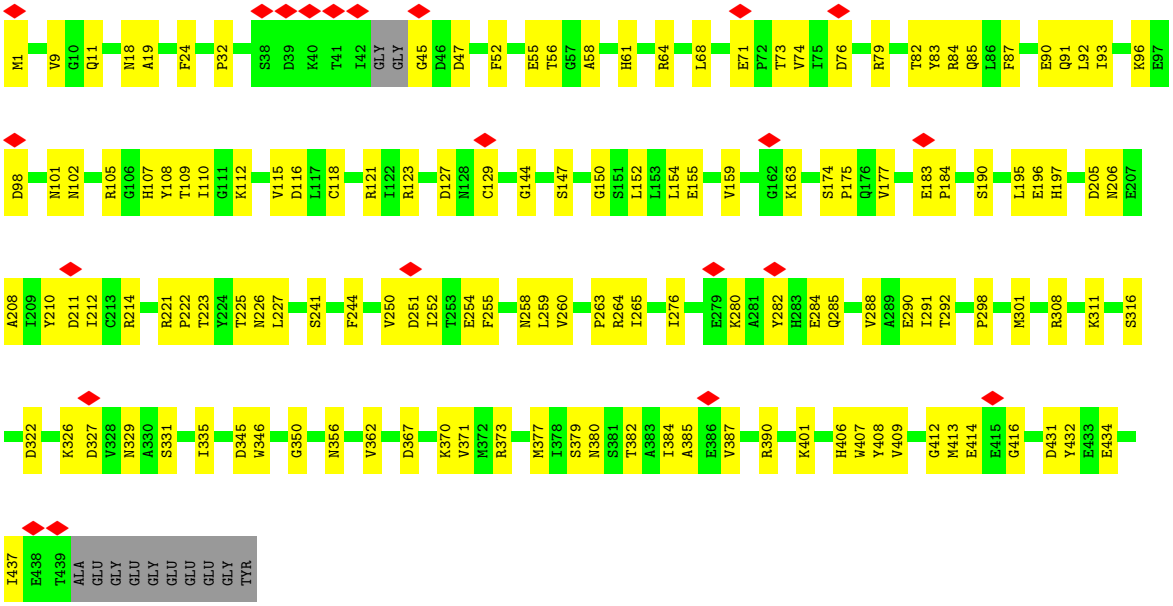




• Molecule 45: Tubulin alpha chain

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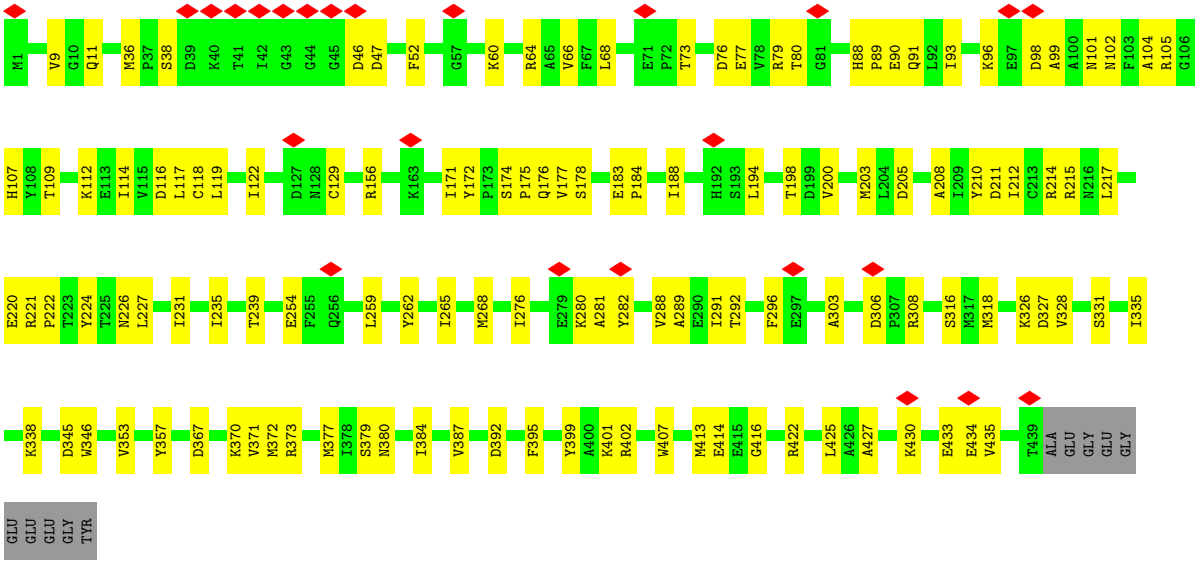




• Molecule 45: Tubulin alpha chain

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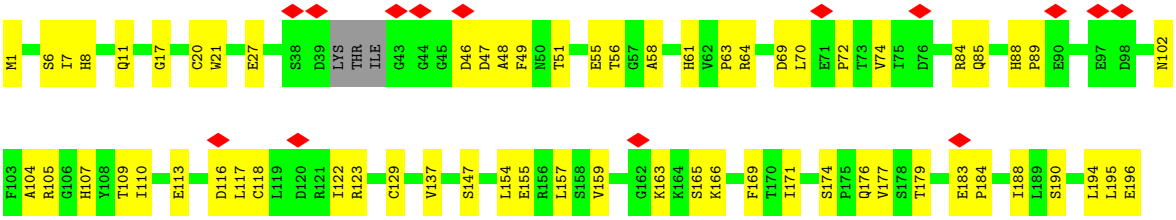


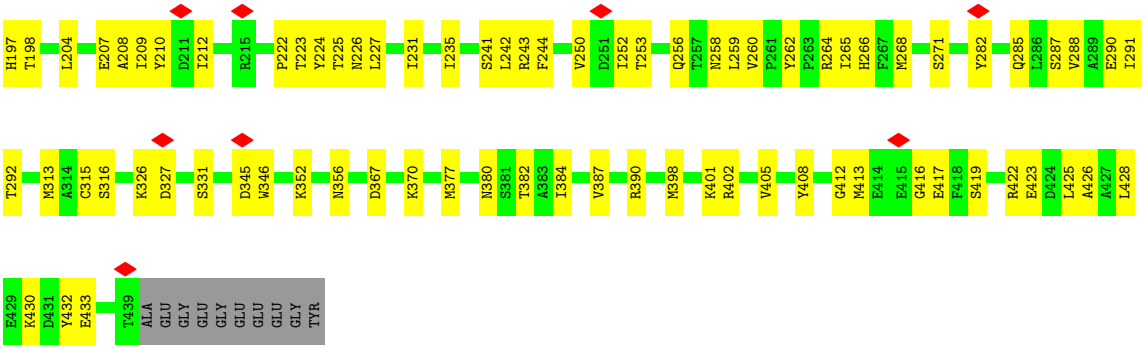


• Molecule 45: Tubulin alpha chain

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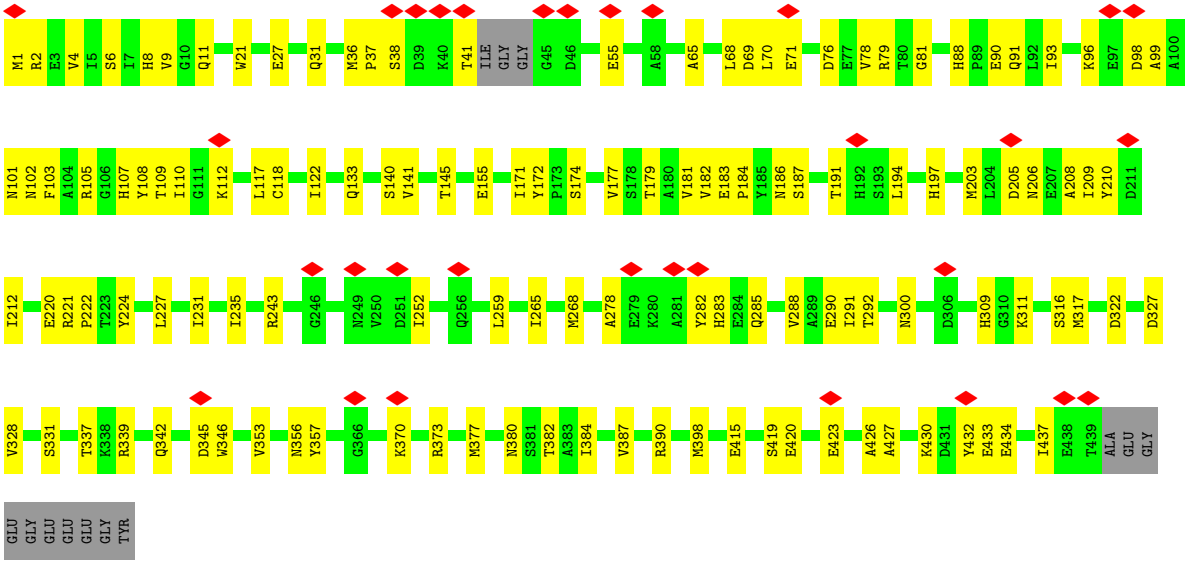




• Molecule 45: Tubulin alpha chain

Chain MM:

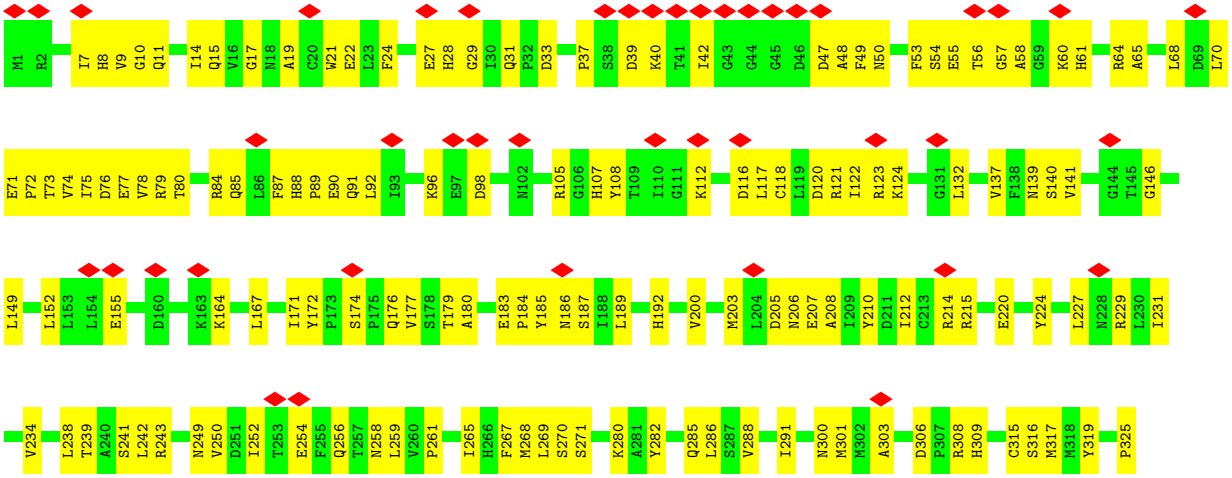


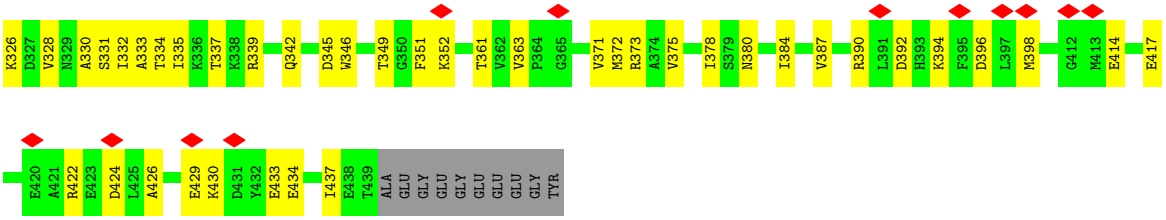


• Molecule 45: Tubulin alpha chain

Chain NA:



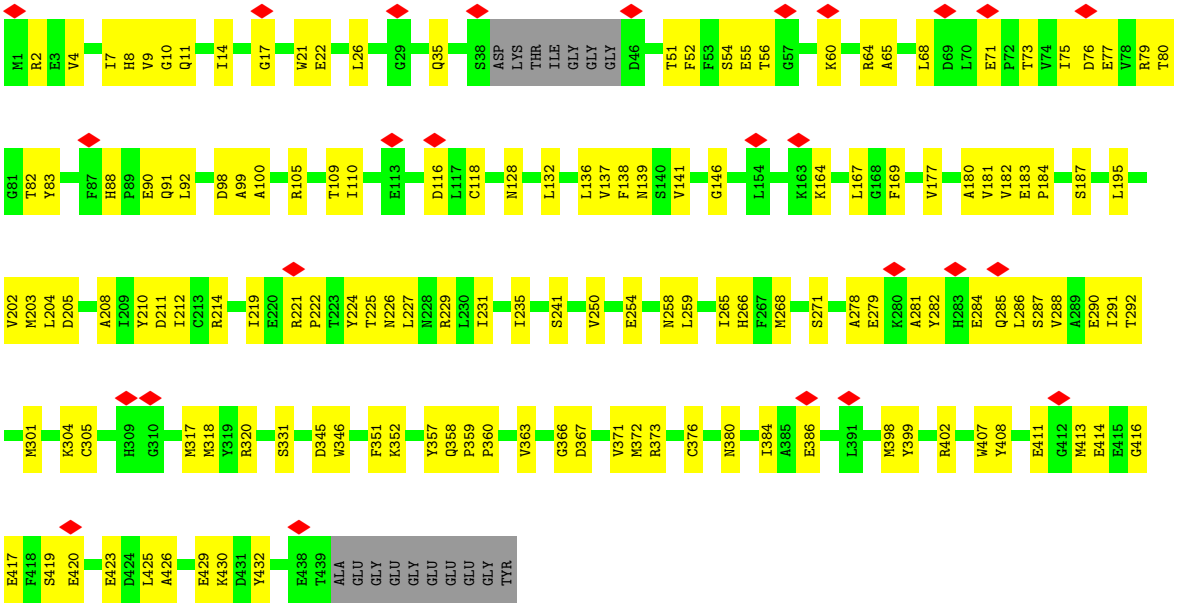




• Molecule 45: Tubulin alpha chain

Chain NC:

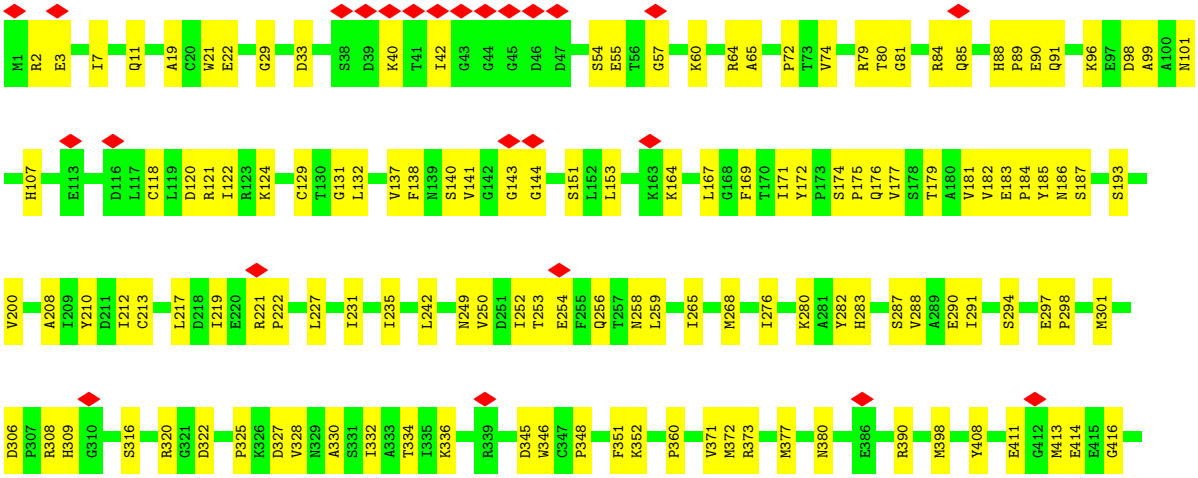


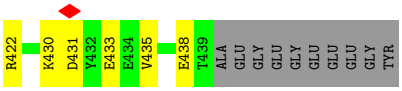


• Molecule 45: Tubulin alpha chain

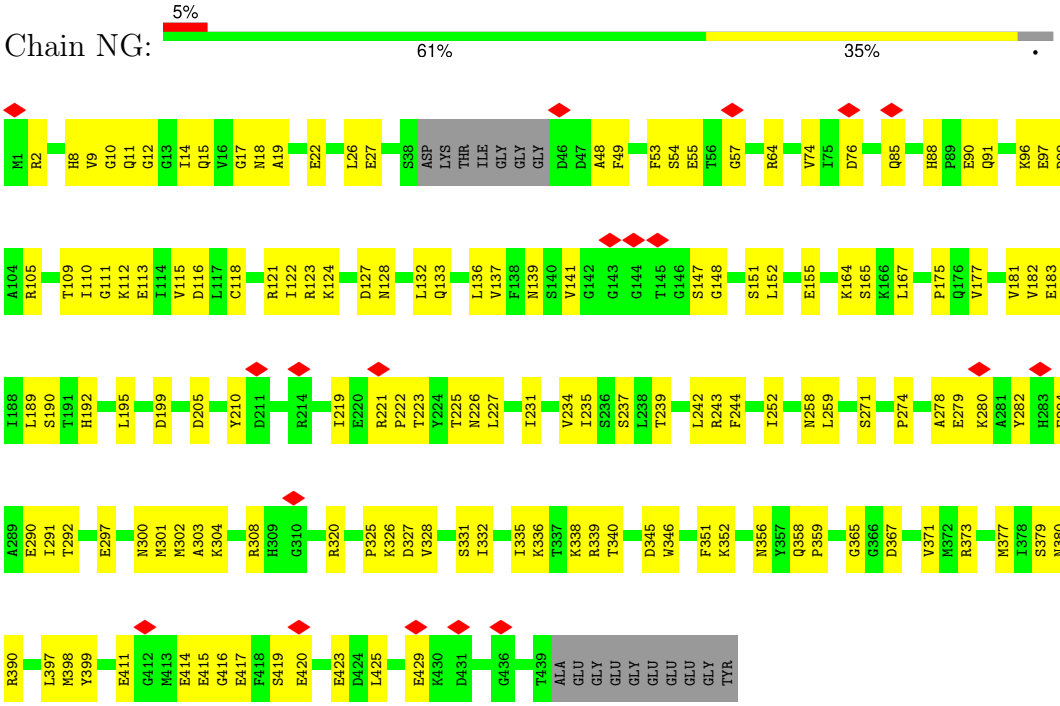
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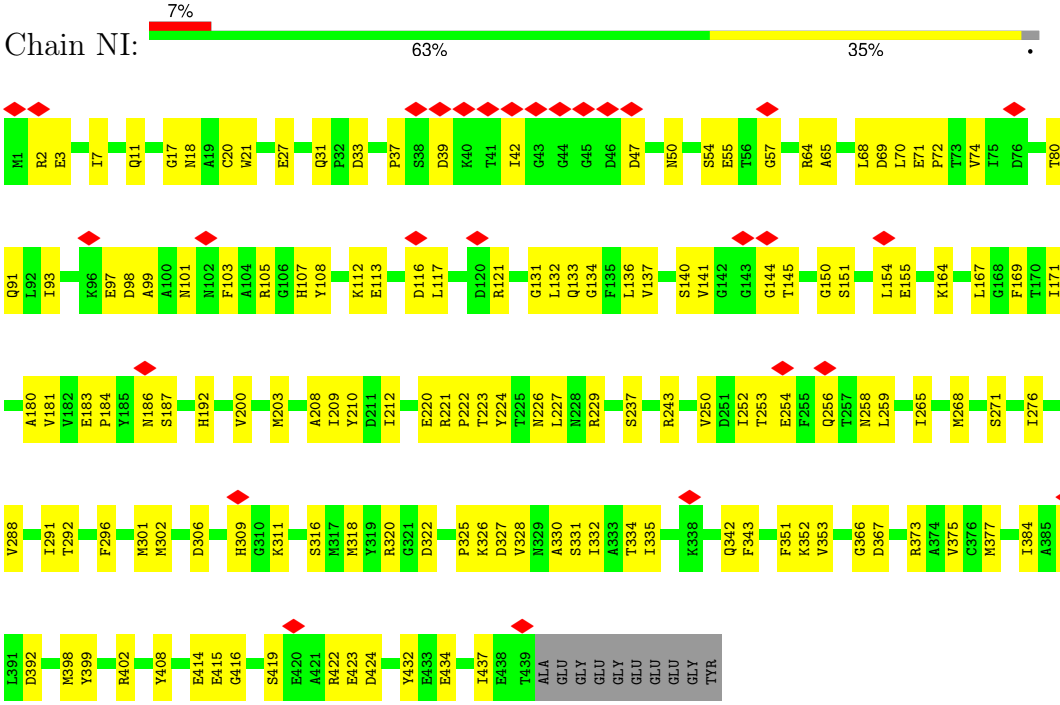




• Molecule 45: Tubulin alpha chain

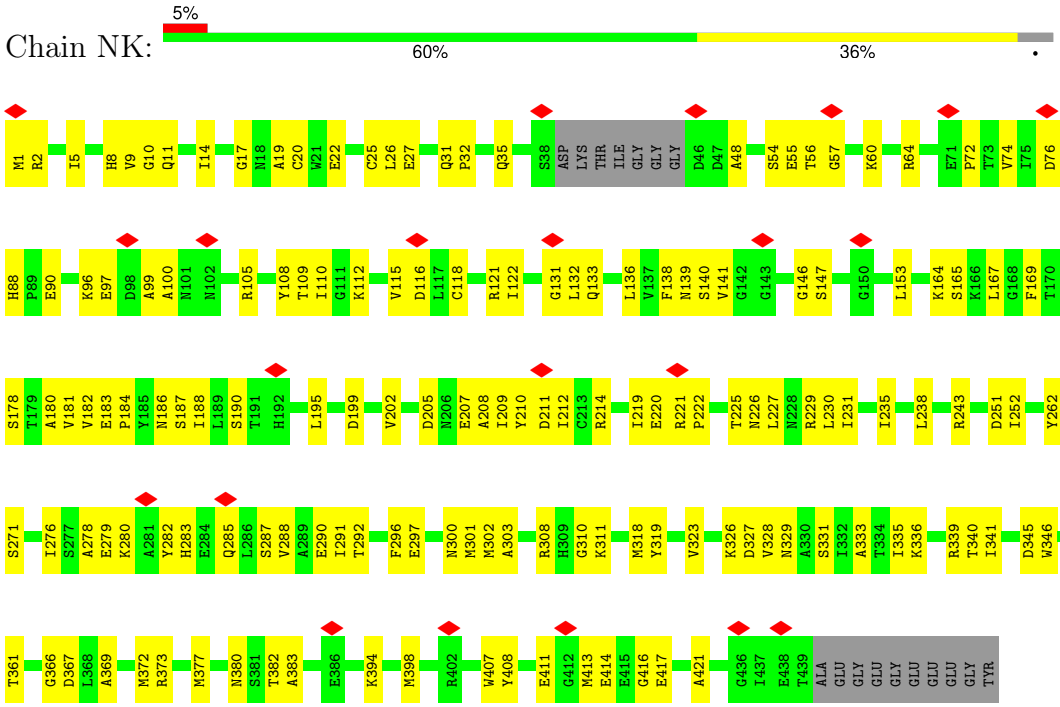


• Molecule 45: Tubulin alpha chain



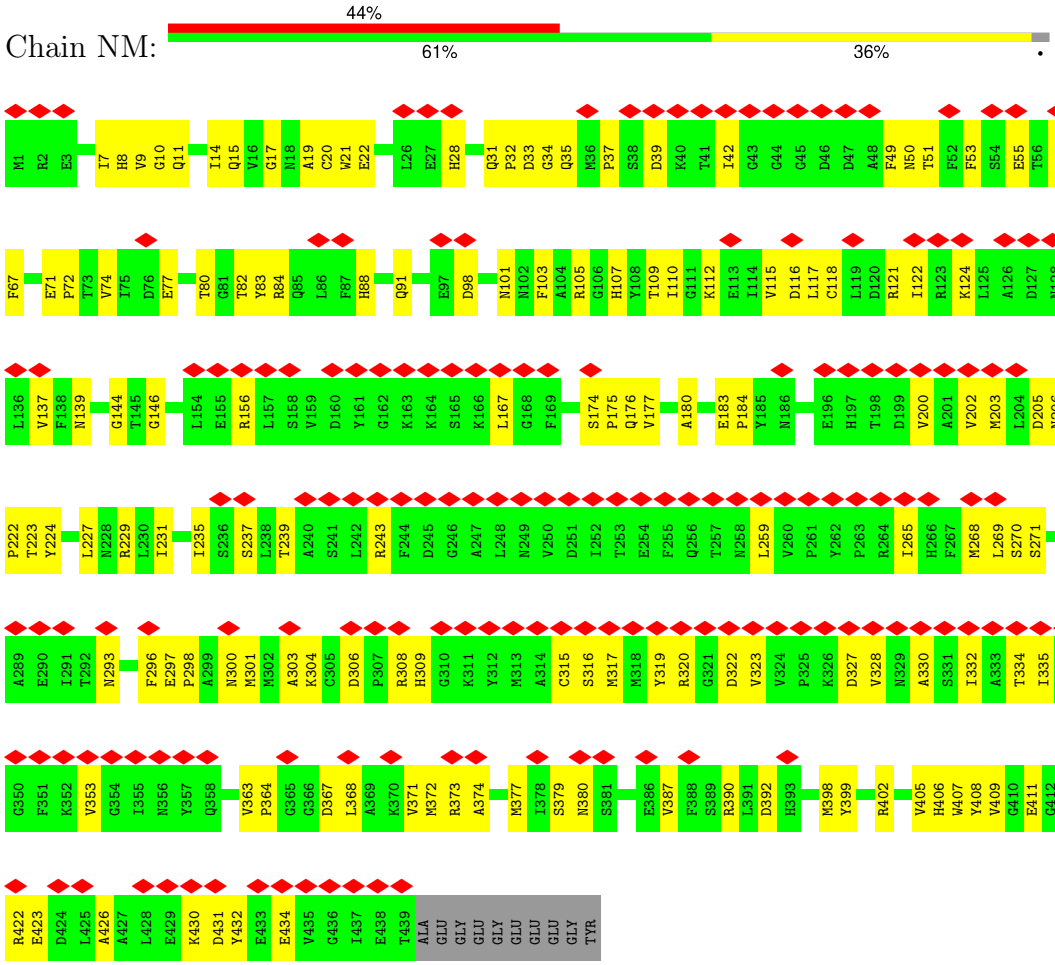
• Molecule 45: Tubulin alpha chain

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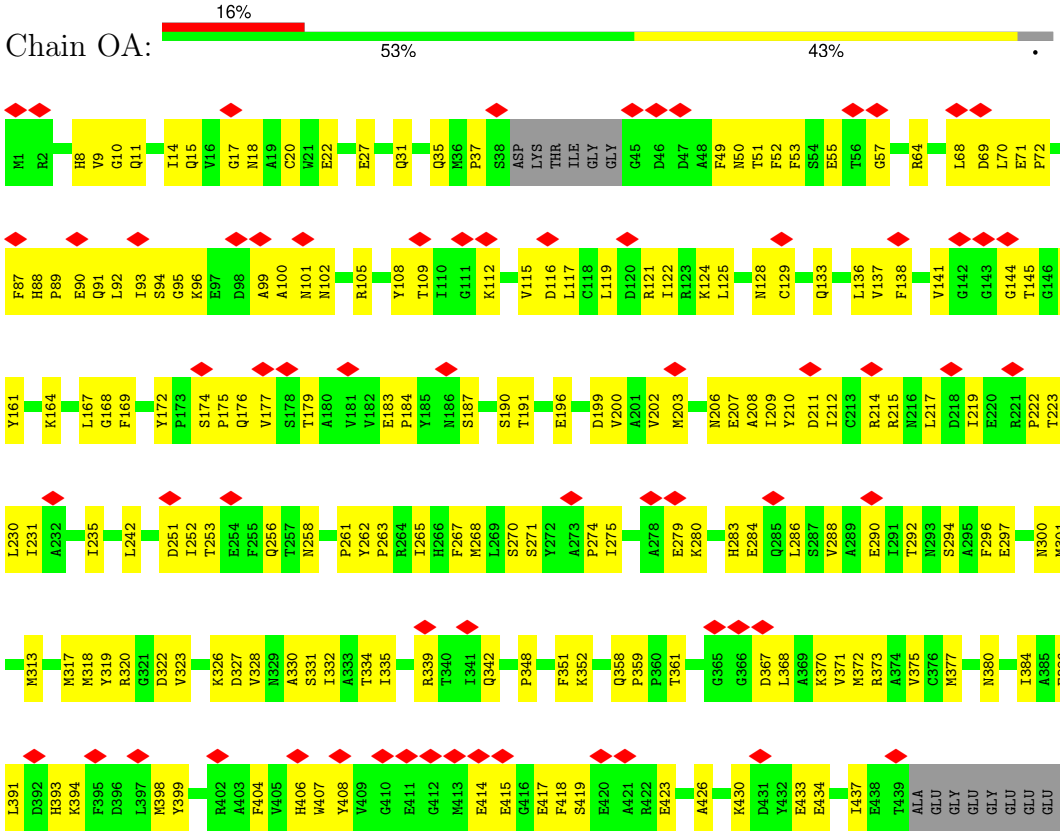
• Molecule 45: Tubulin alpha chain

Chain NM:



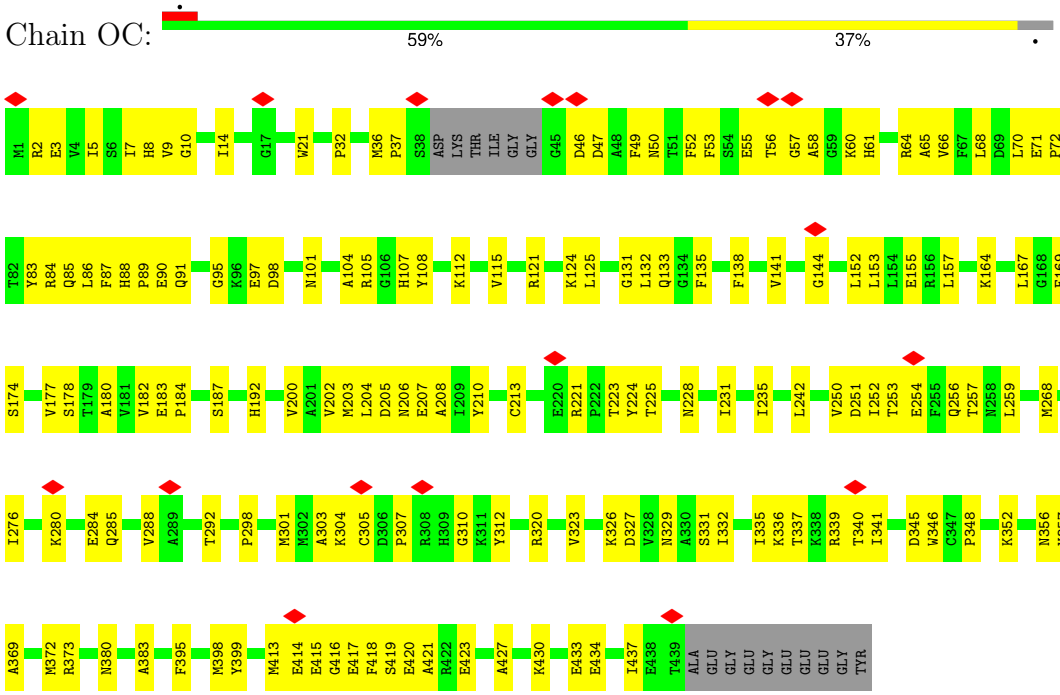
• Molecule 45: Tubulin alpha chain

Chain OA:



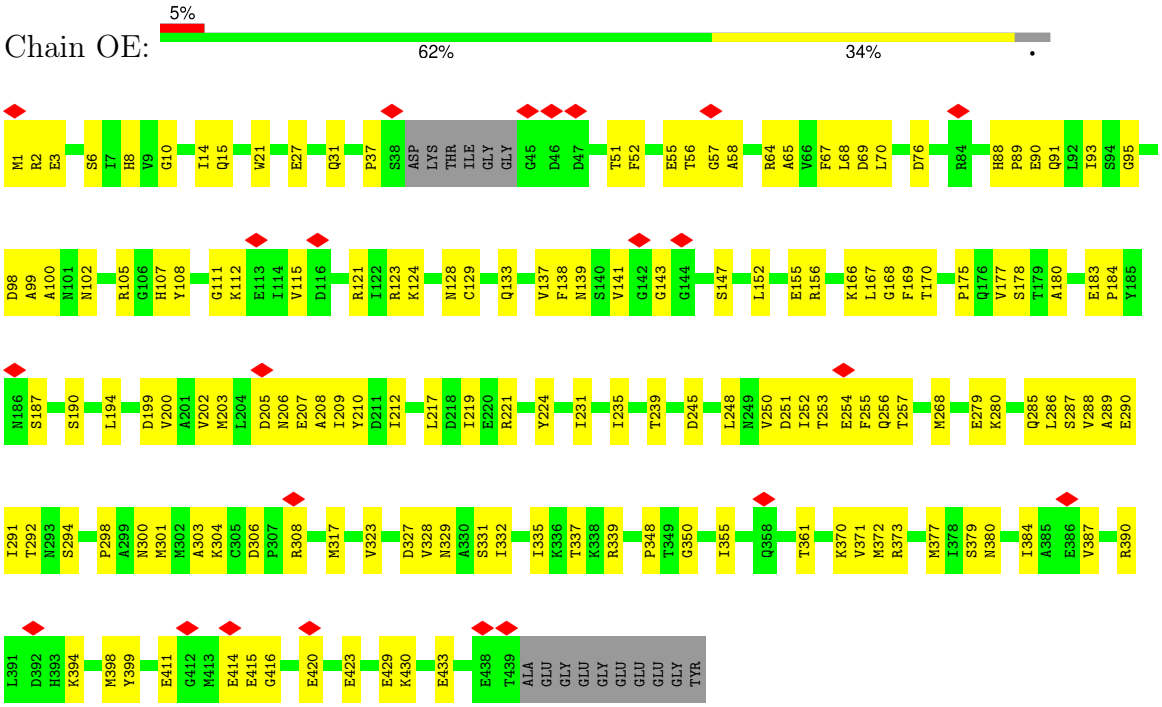
• Molecule 45: Tubulin alpha chain

Chain OC:



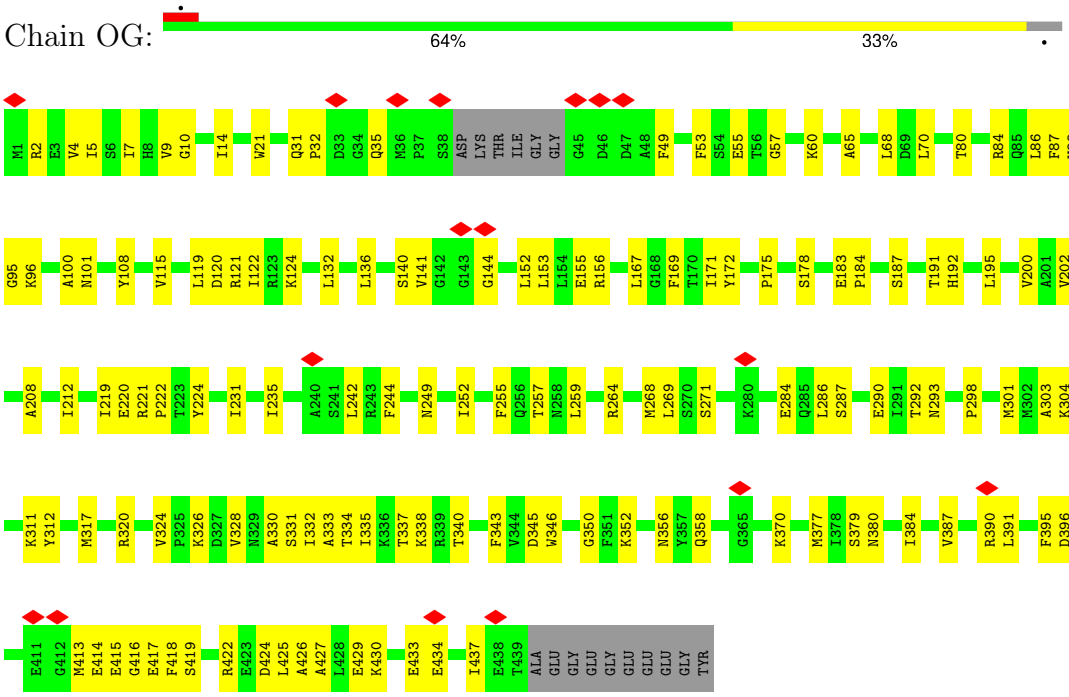
• Molecule 45: Tubulin alpha chain

Chain OE:



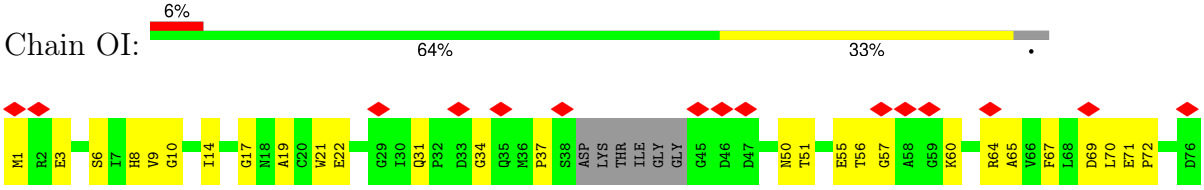
• Molecule 45: Tubulin alpha chain

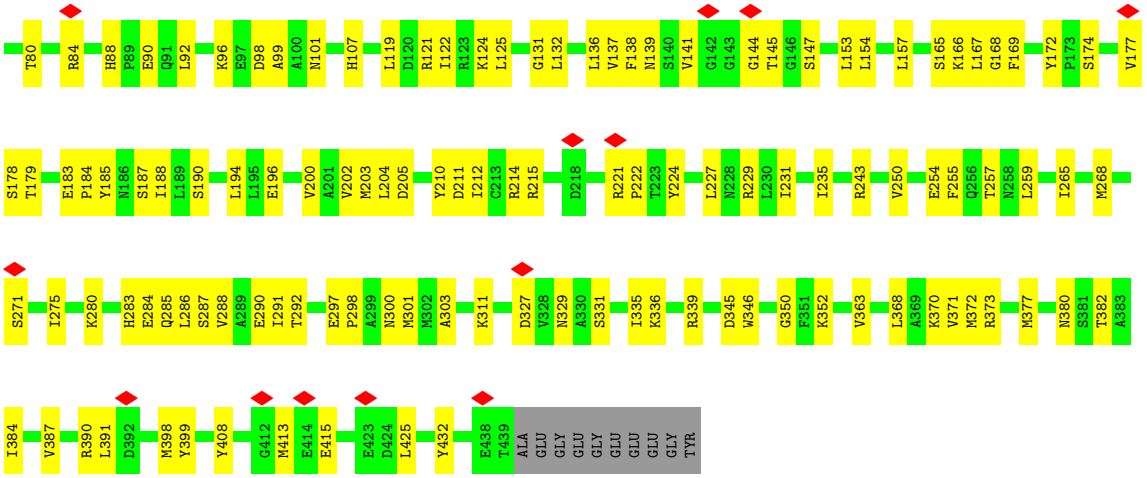
Chain OG:



• Molecule 45: Tubulin alpha chain

Chain OI:

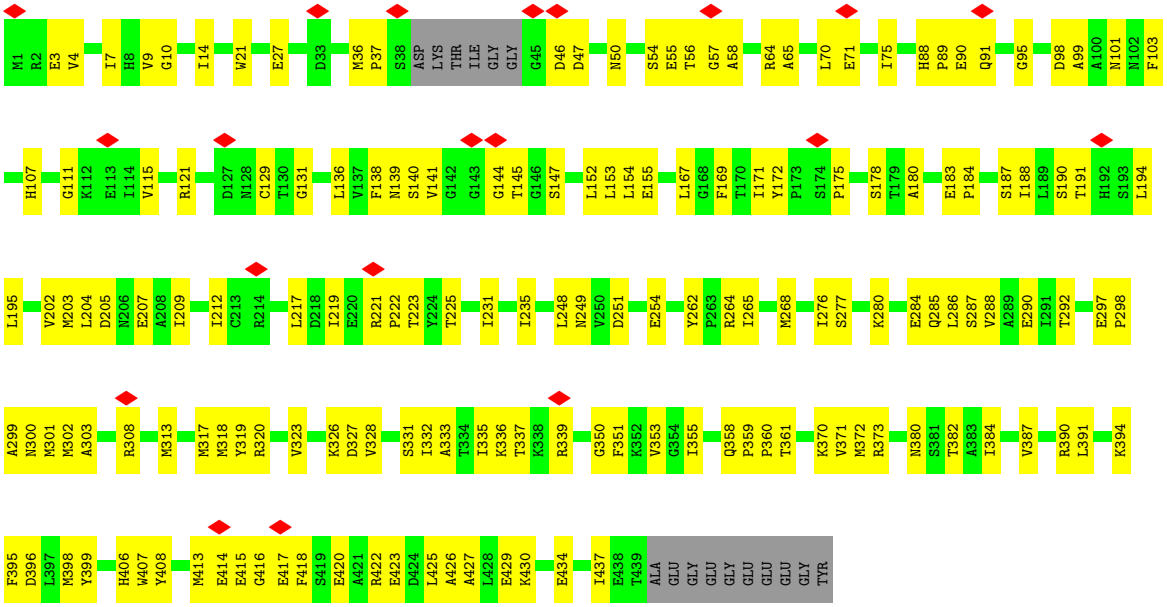




• Molecule 45: Tubulin alpha chain

Chain OK:

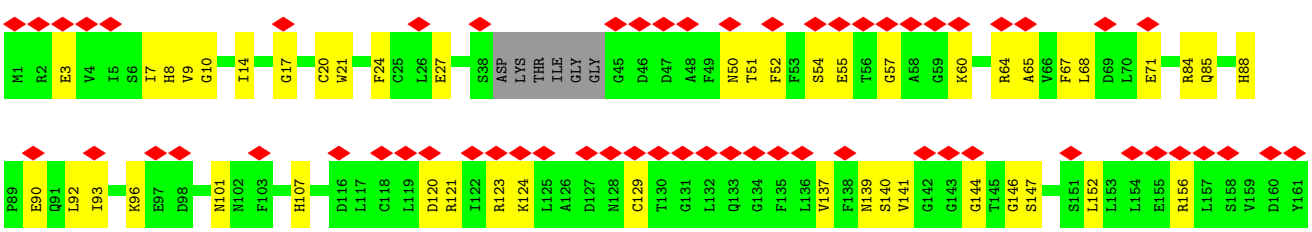


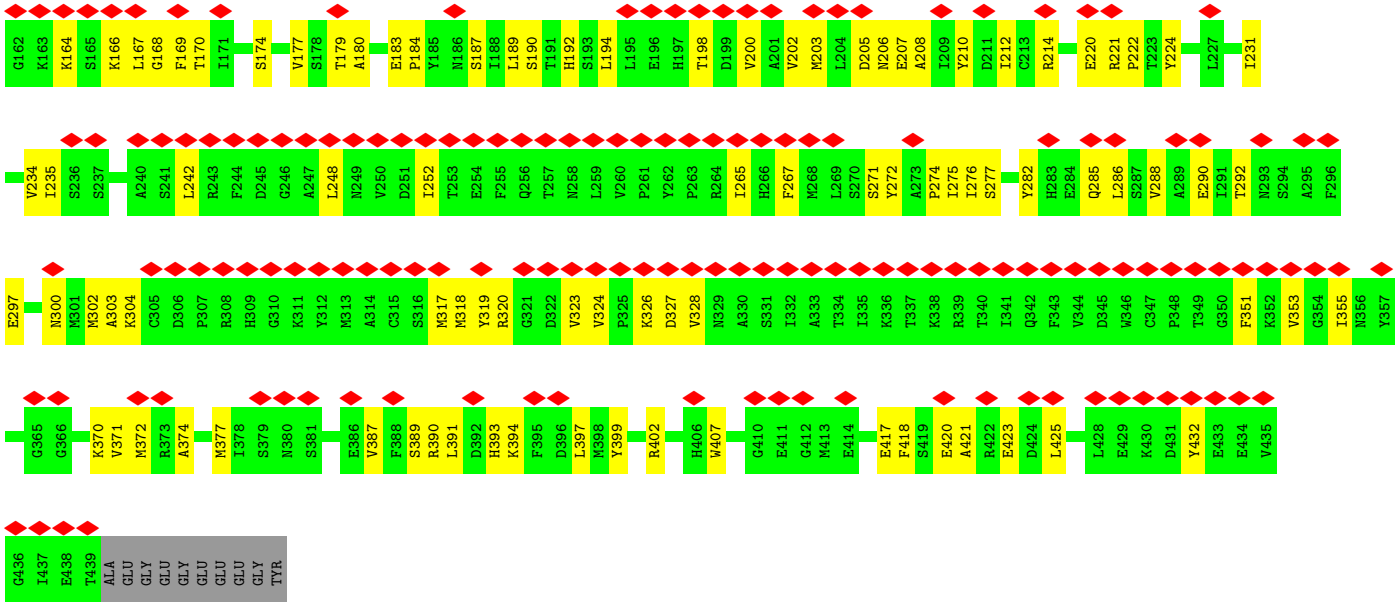


• Molecule 45: Tubulin alpha chain

Chain OM:



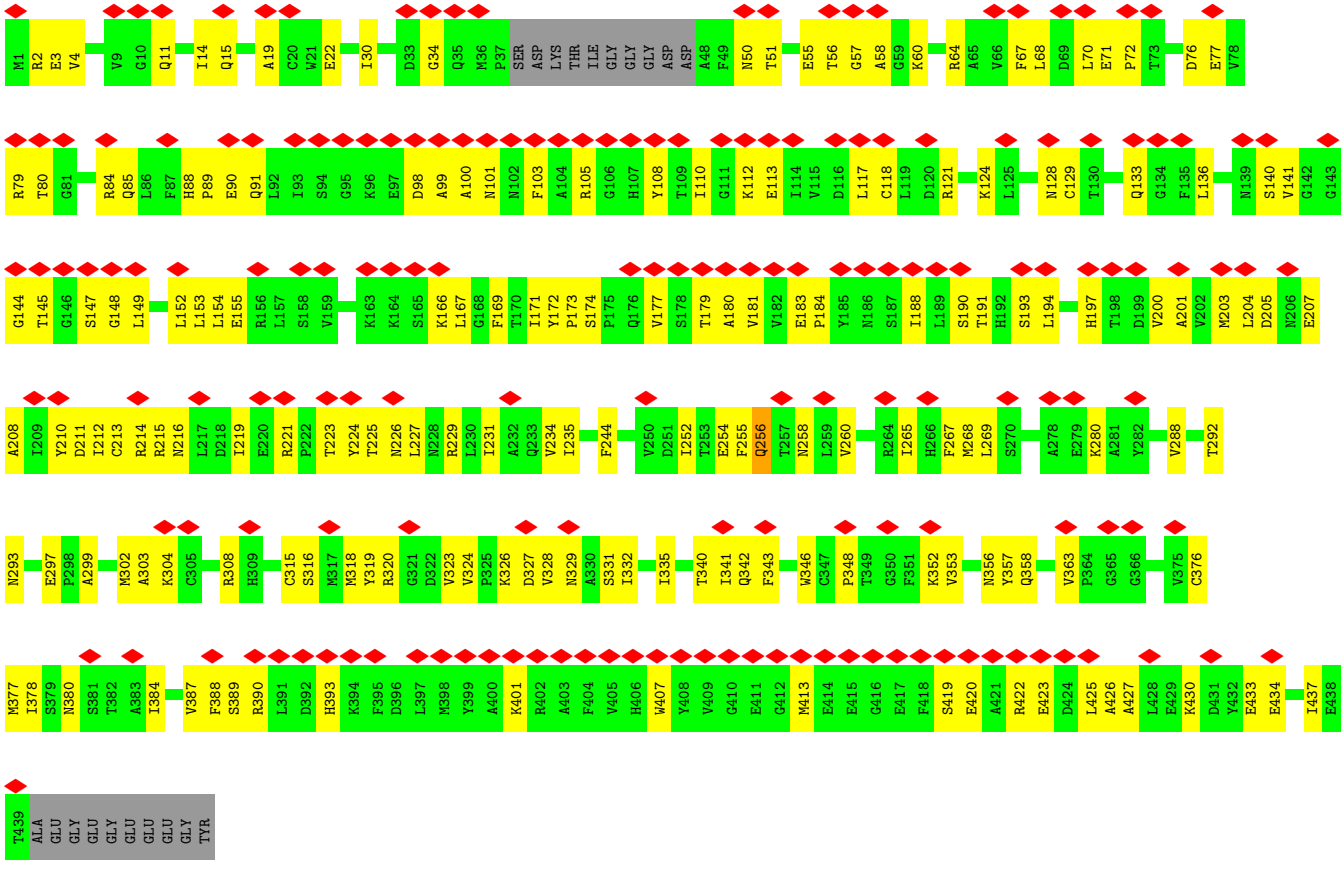




• Molecule 45: Tubulin alpha chain

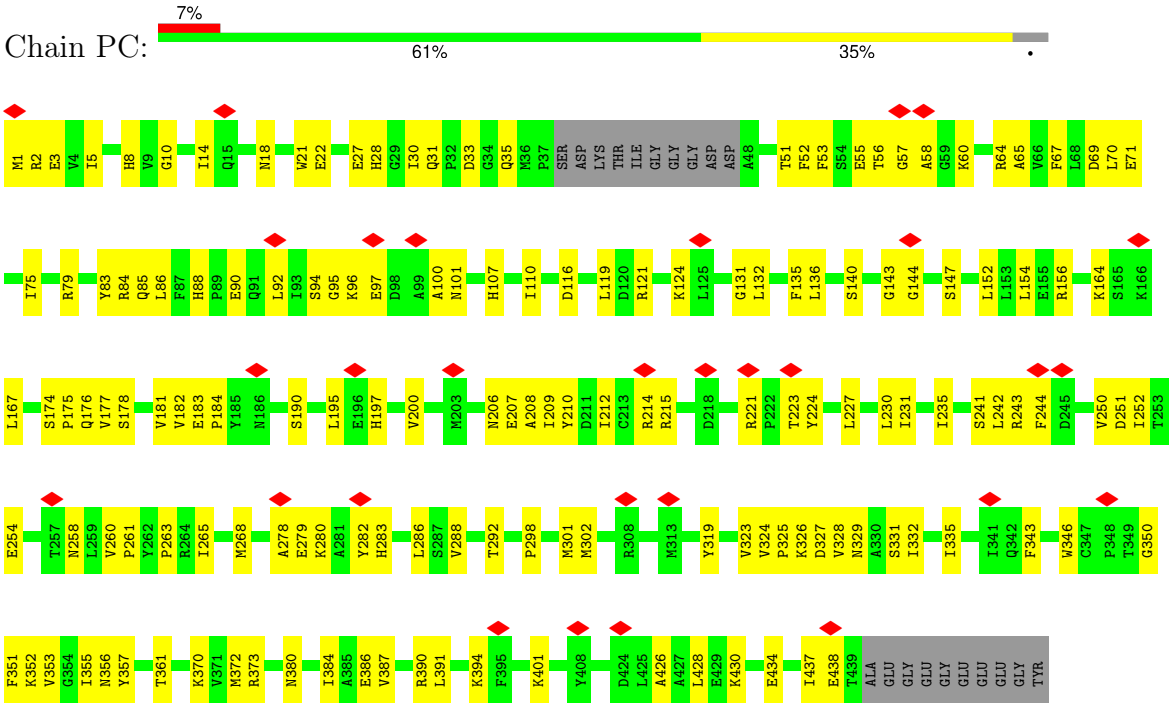
Chain PA:





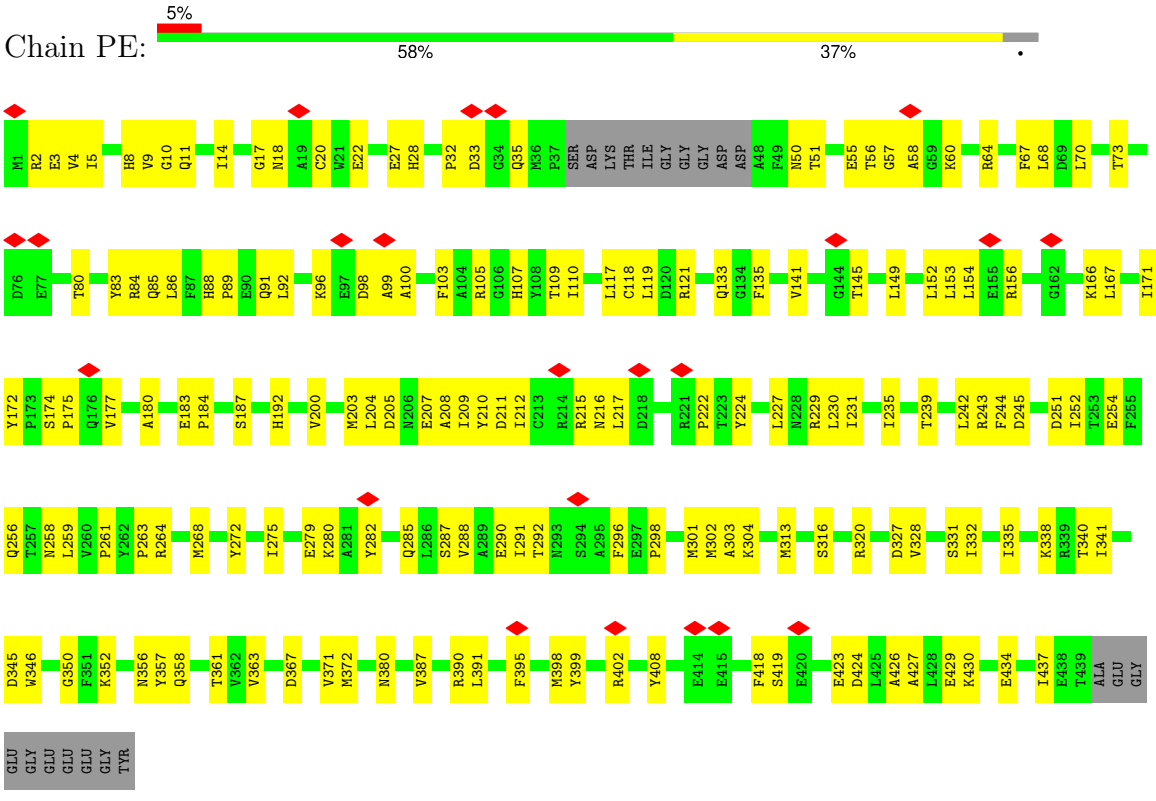
• Molecule 45: Tubulin alpha chain

Chain PC:



• Molecule 45: Tubulin alpha chain

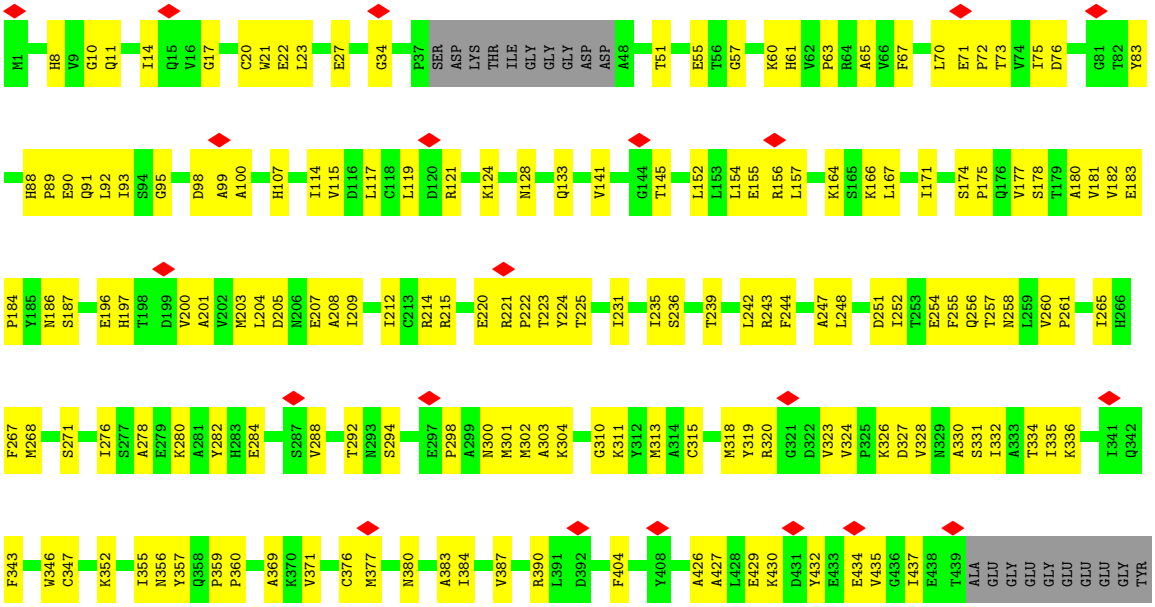
Chain PE:



• Molecule 45: Tubulin alpha chain

Chain PG:

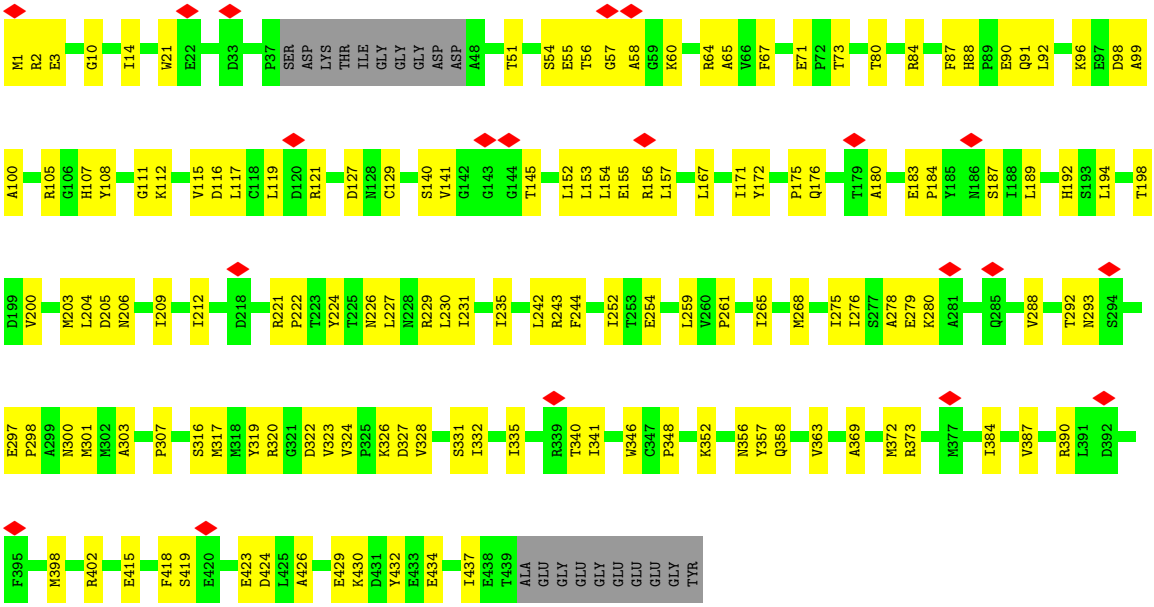




• Molecule 45: Tubulin alpha chain

Chain PI:

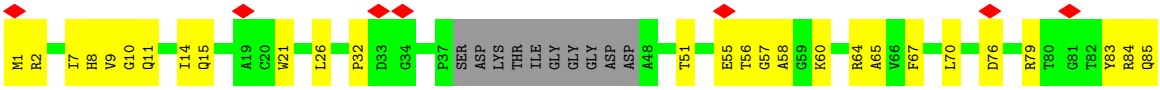


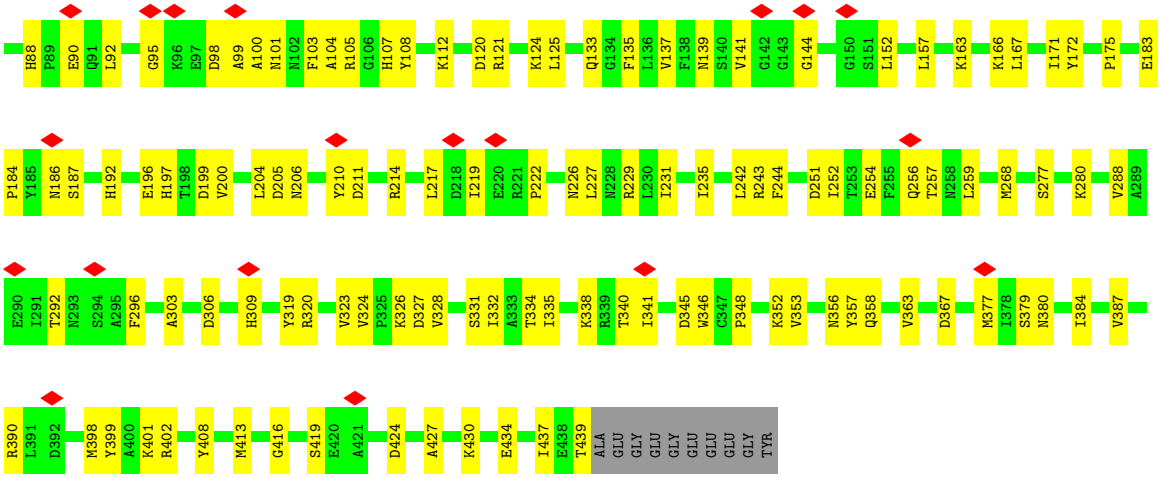


• Molecule 45: Tubulin alpha chain

Chain PK:



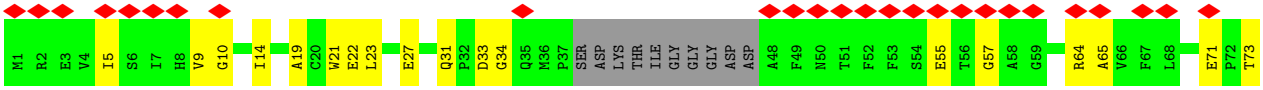


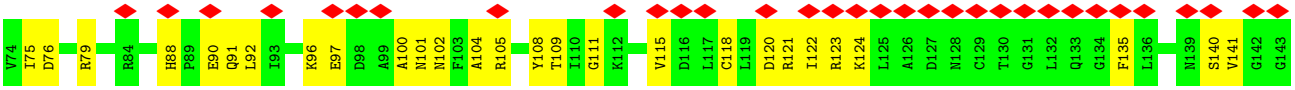


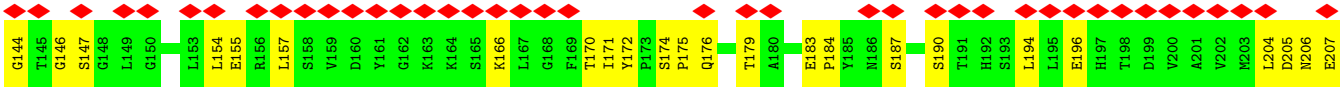
• Molecule 45: Tubulin alpha chain

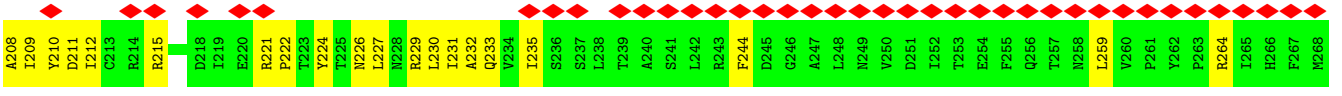
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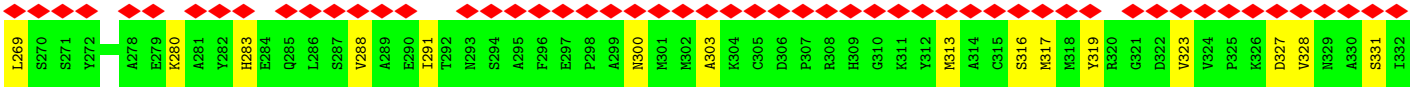


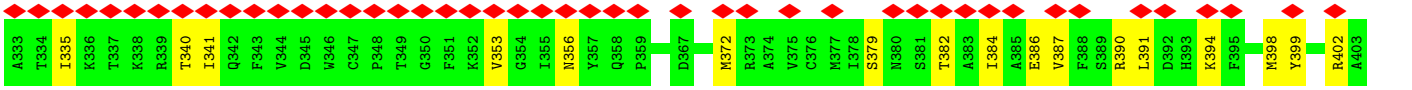


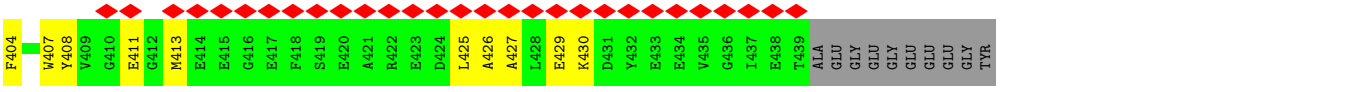








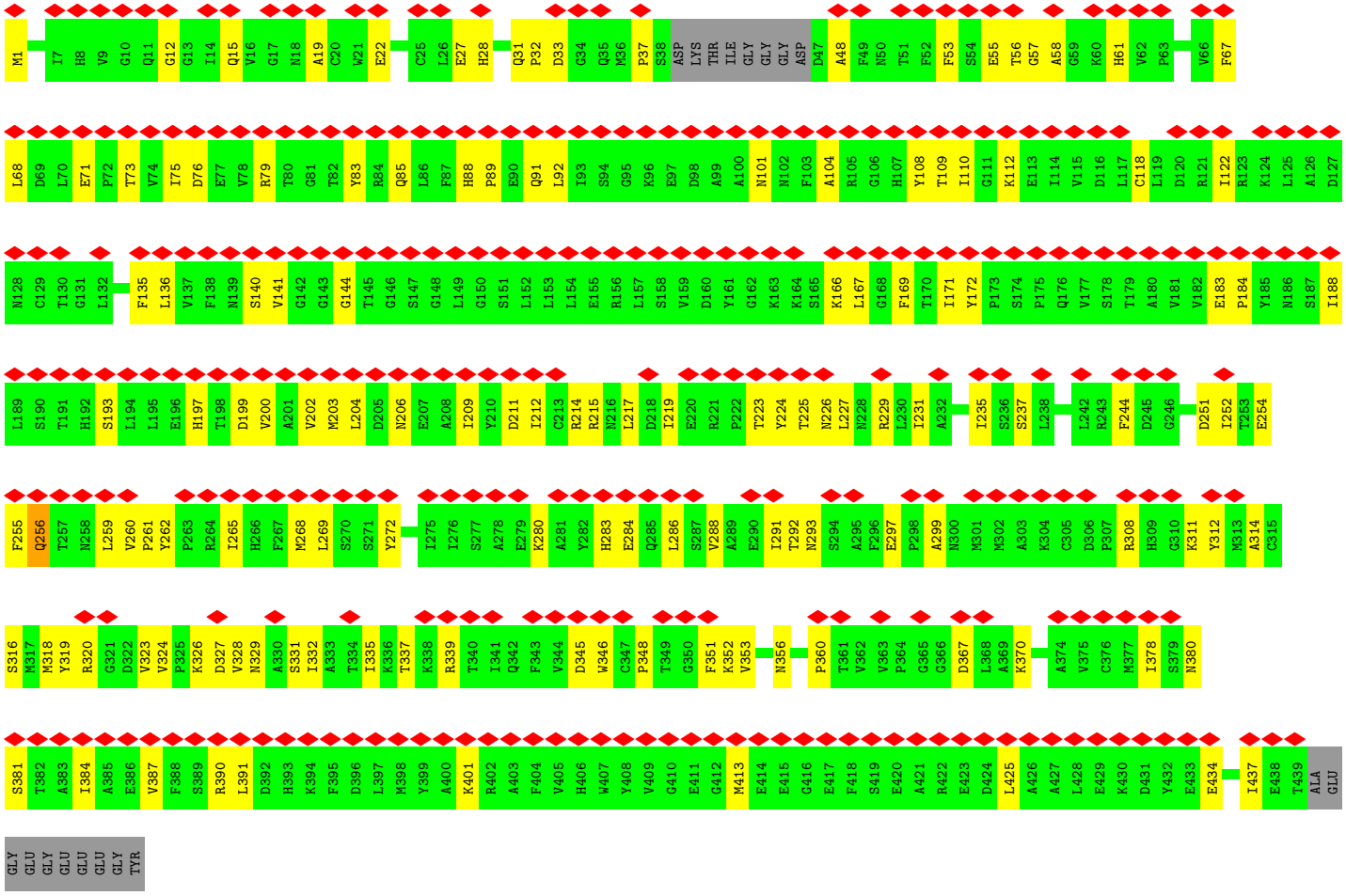




• Molecule 45: Tubulin alpha chain

Chain QA:

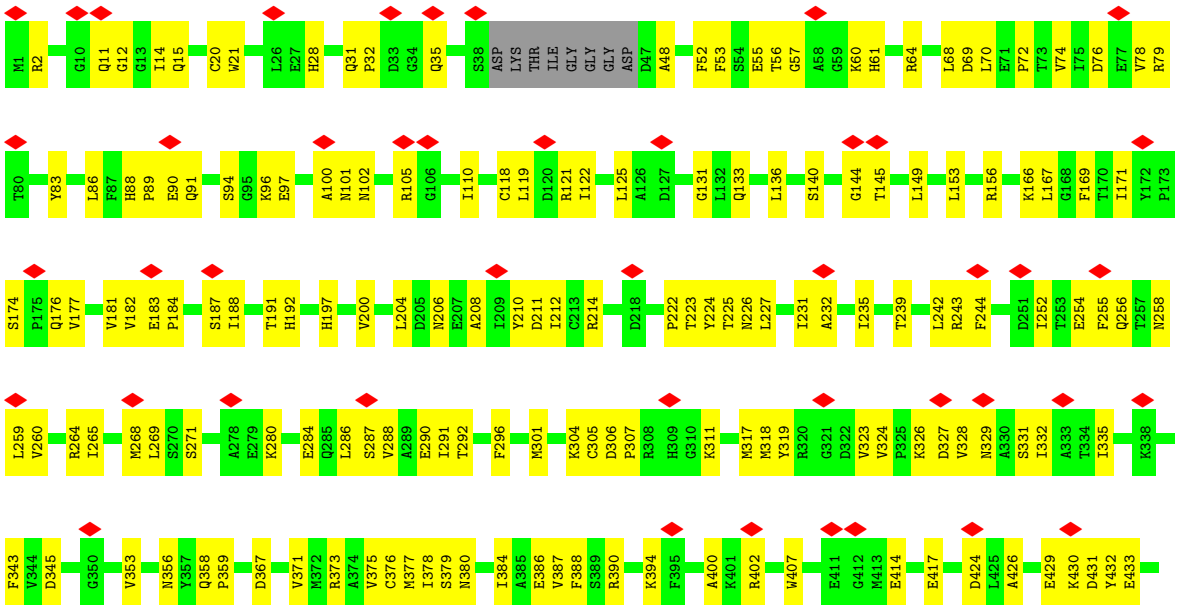


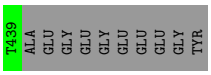


• Molecule 45: Tubulin alpha chain

Chain QC:



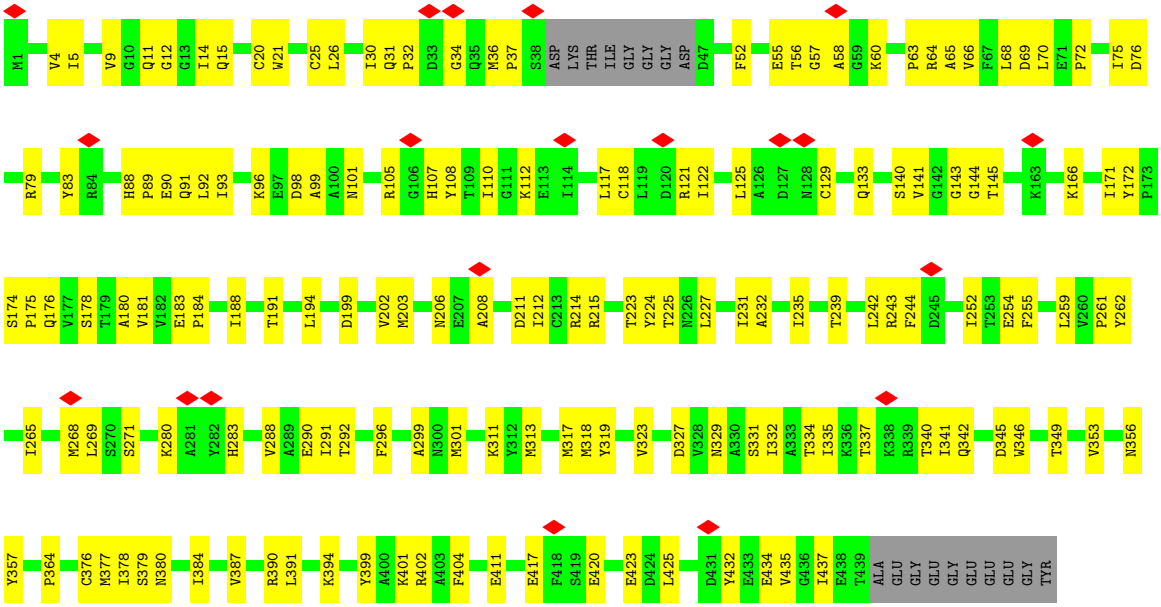




• Molecule 45: Tubulin alpha chain

Chain QE:

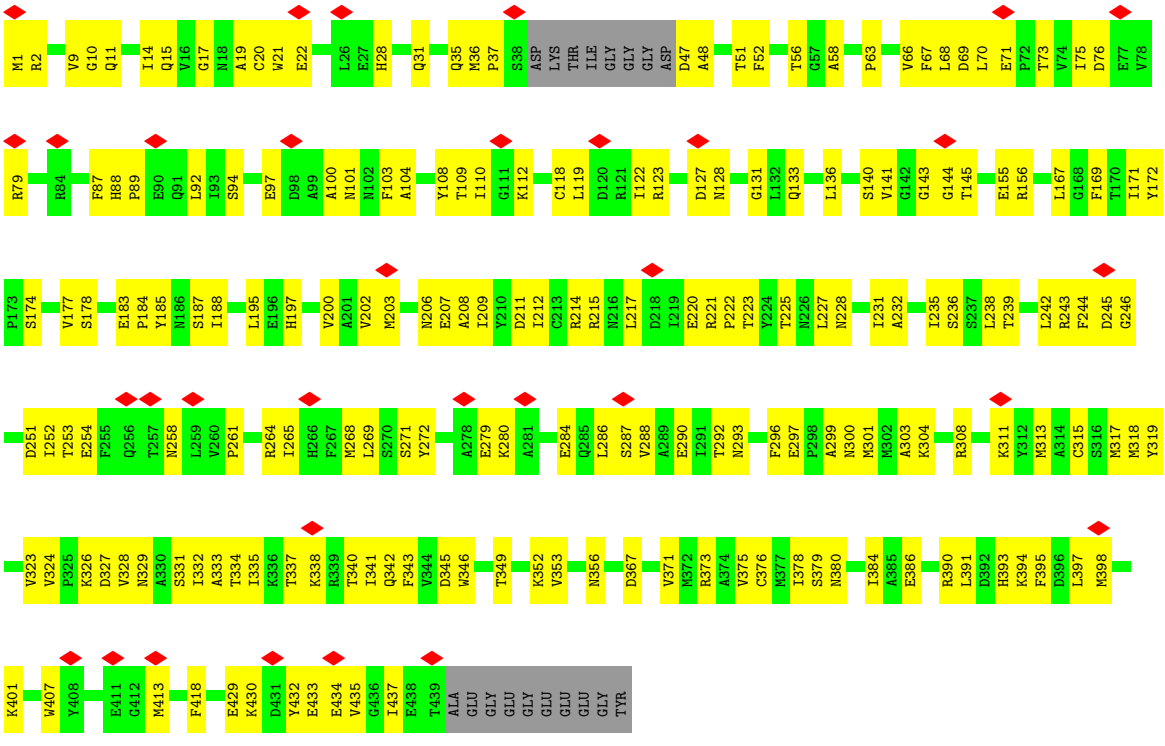




• Molecule 45: Tubulin alpha chain

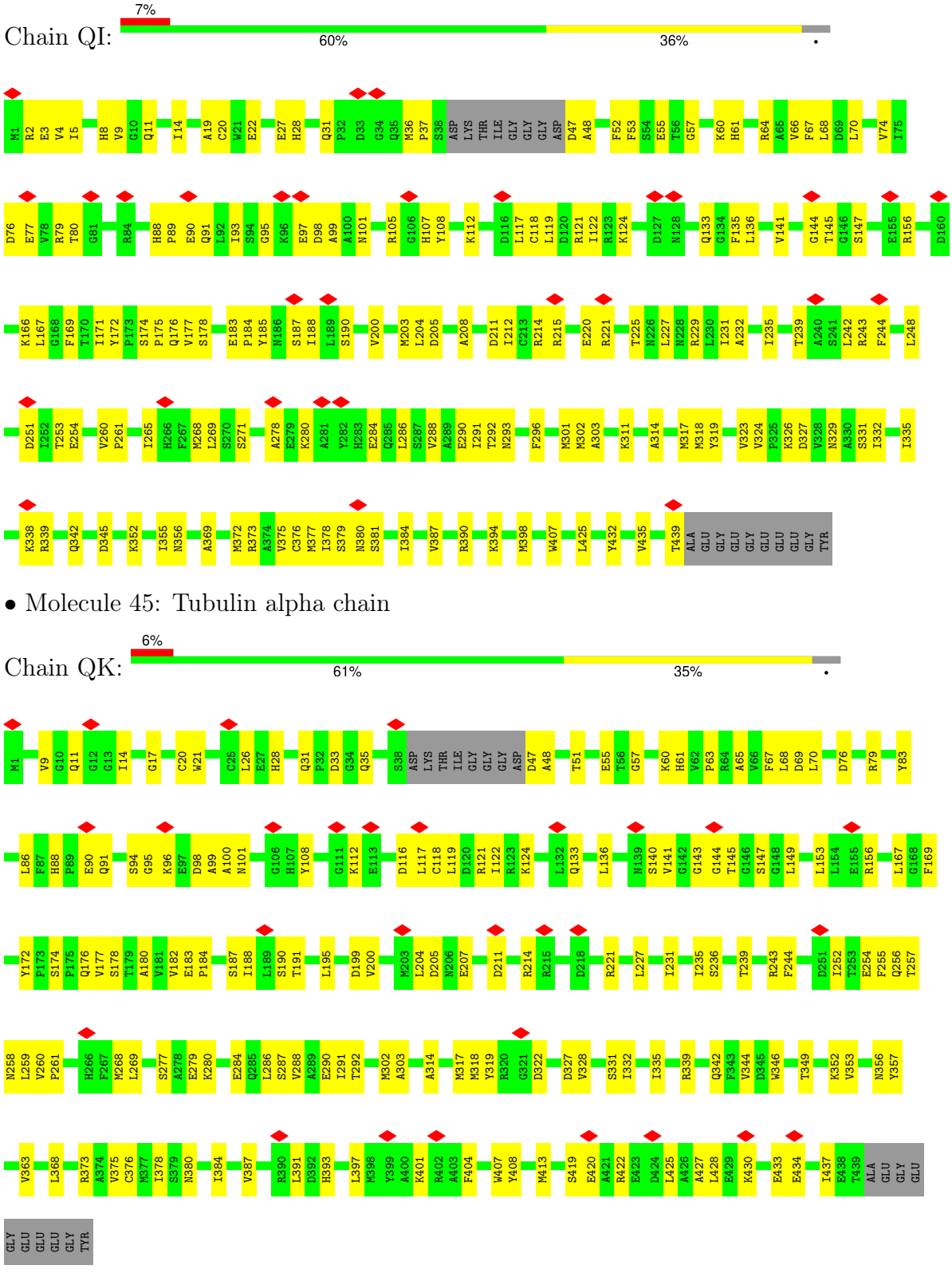
Chain QG:





• Molecule 45: Tubulin alpha chain

Chain QI:



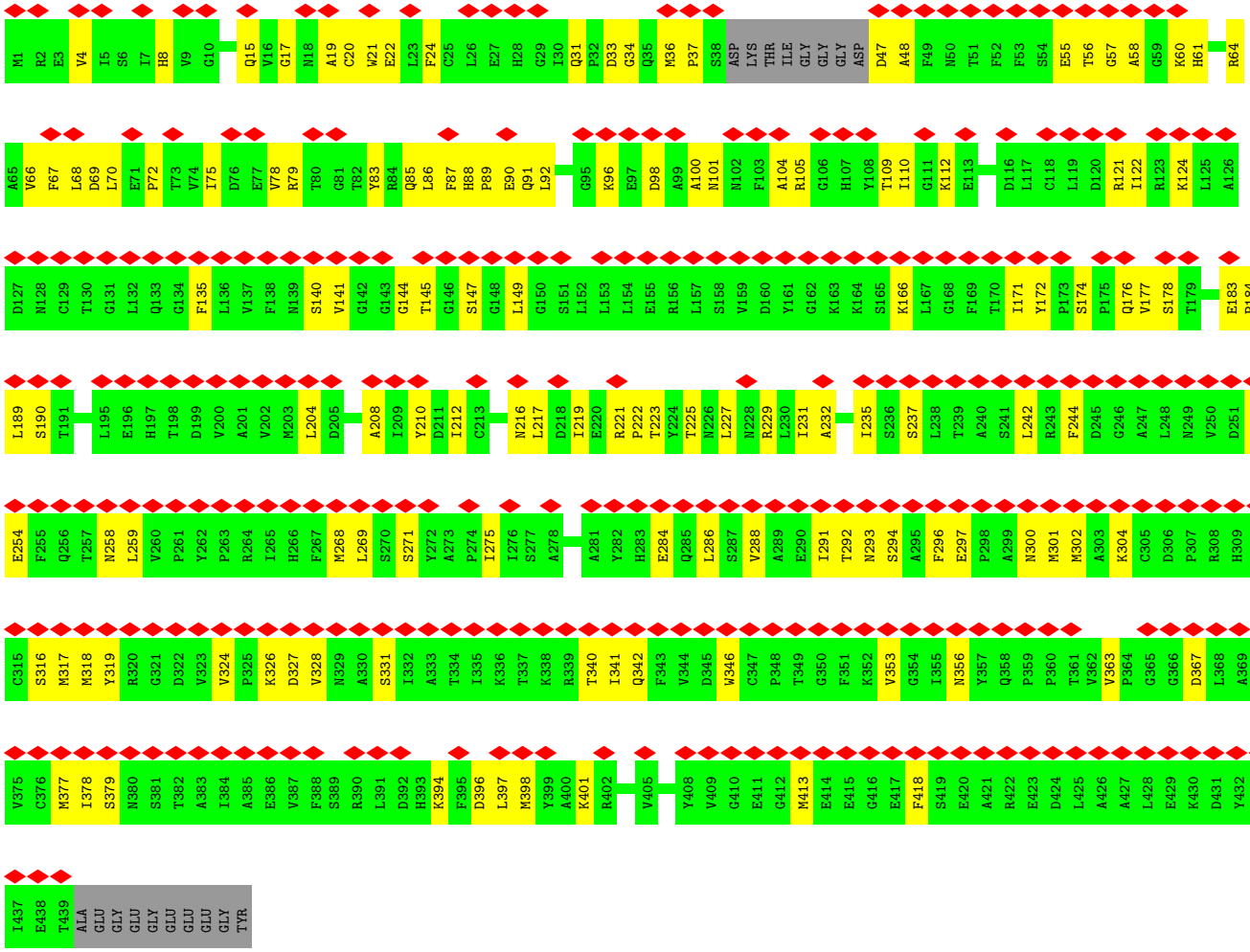
• Molecule 45: Tubulin alpha chain

Chain QK:

• Molecule 45: Tubulin alpha chain

Chain QM:

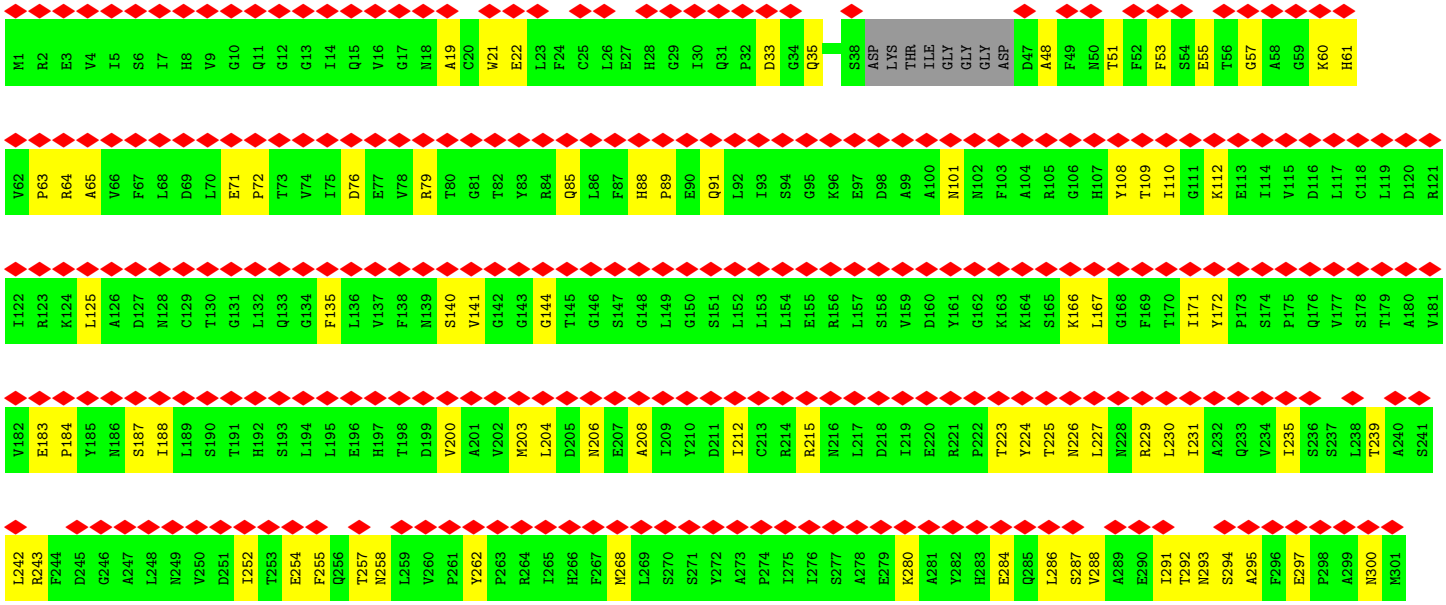


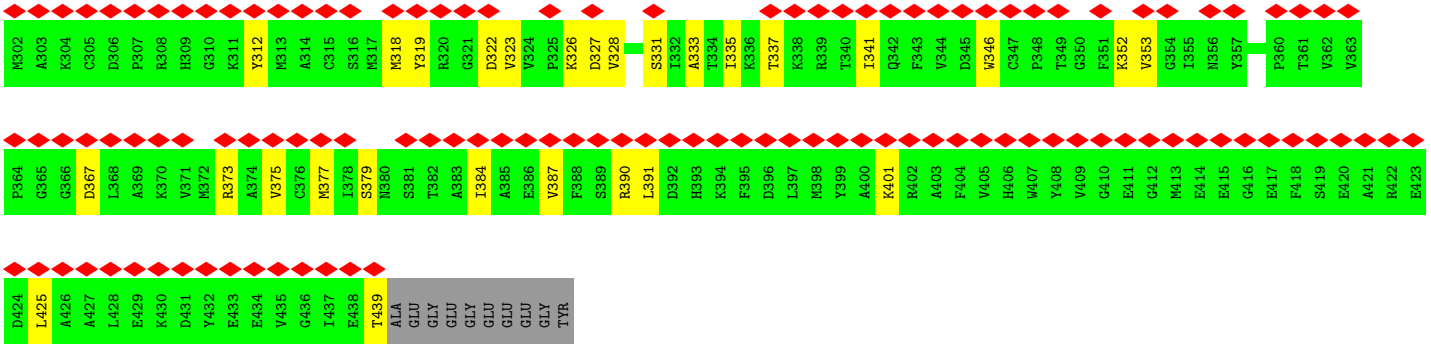


• Molecule 45: Tubulin alpha chain

Chain RA:



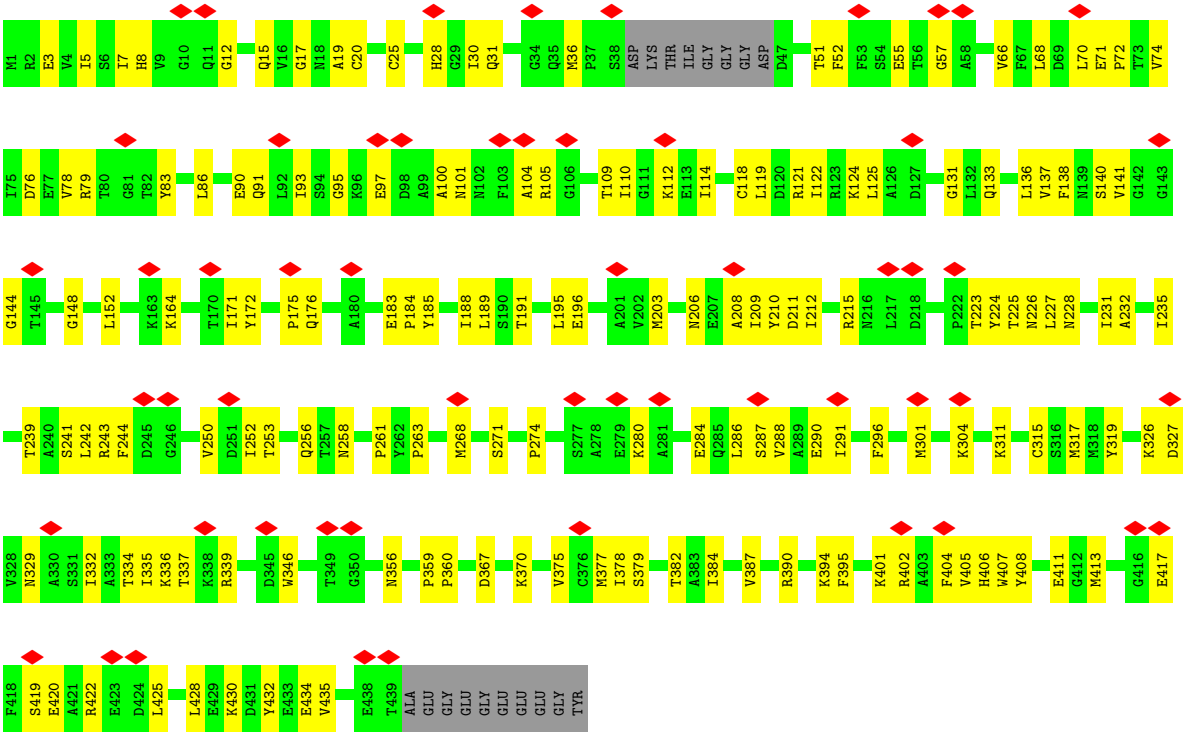




• Molecule 45: Tubulin alpha chain

Chain RC:

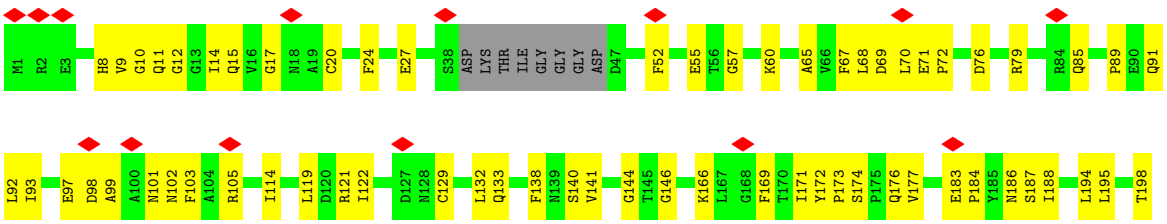


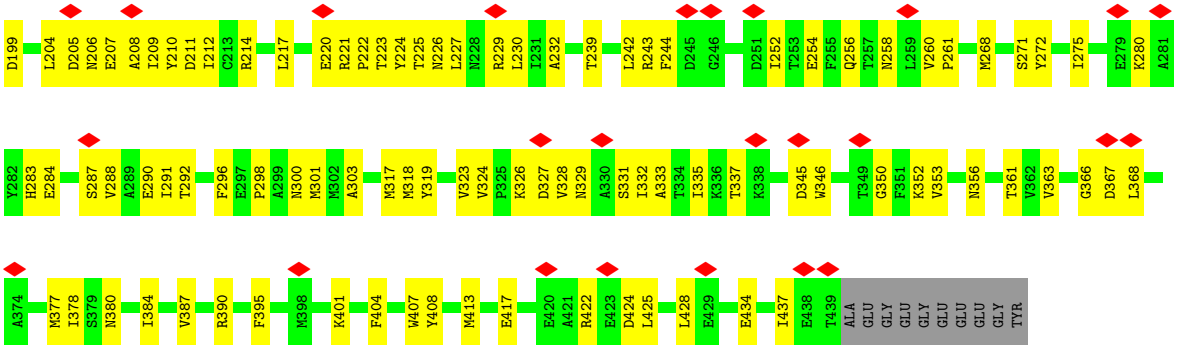


• Molecule 45: Tubulin alpha chain

Chain RE:



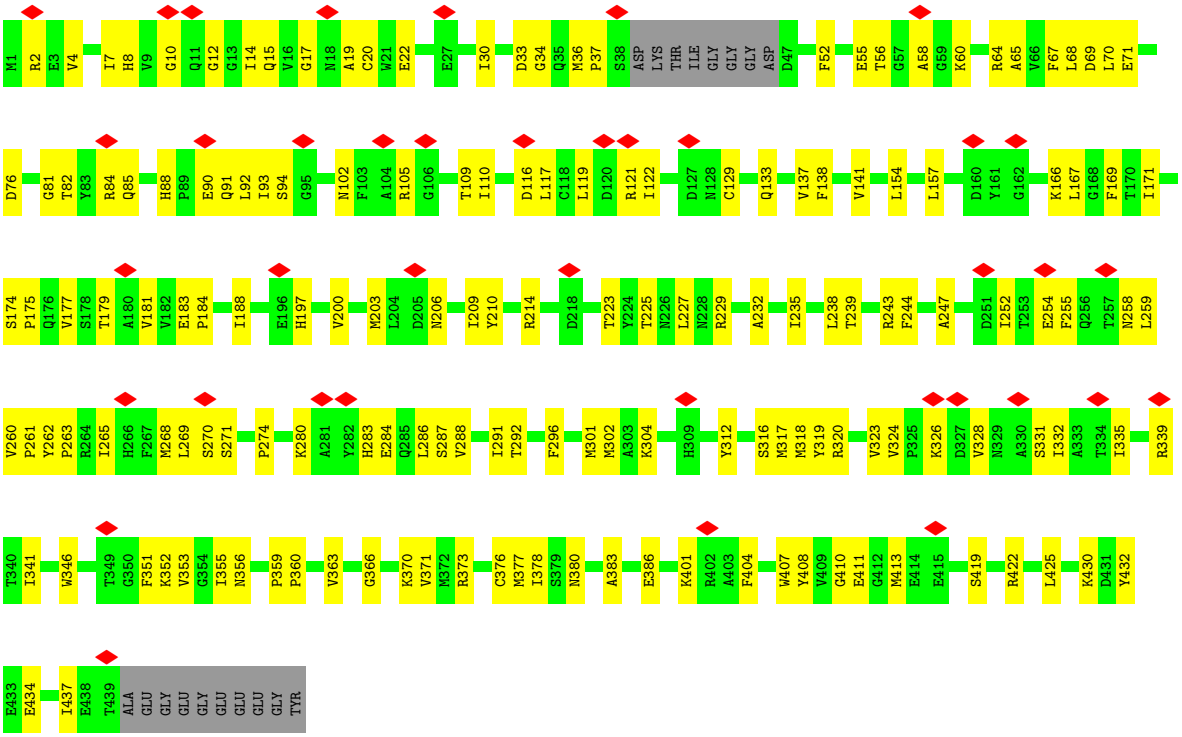




• Molecule 45: Tubulin alpha chain

Chain RG:

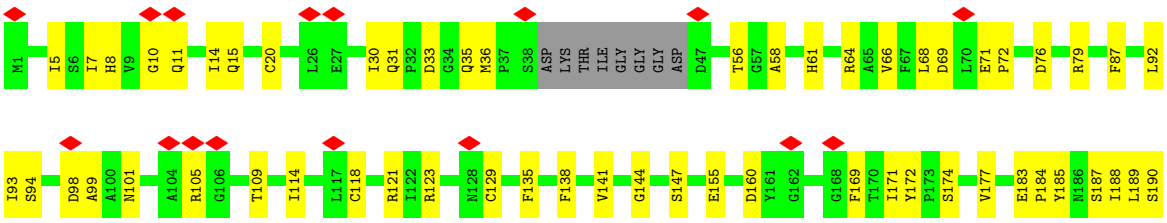


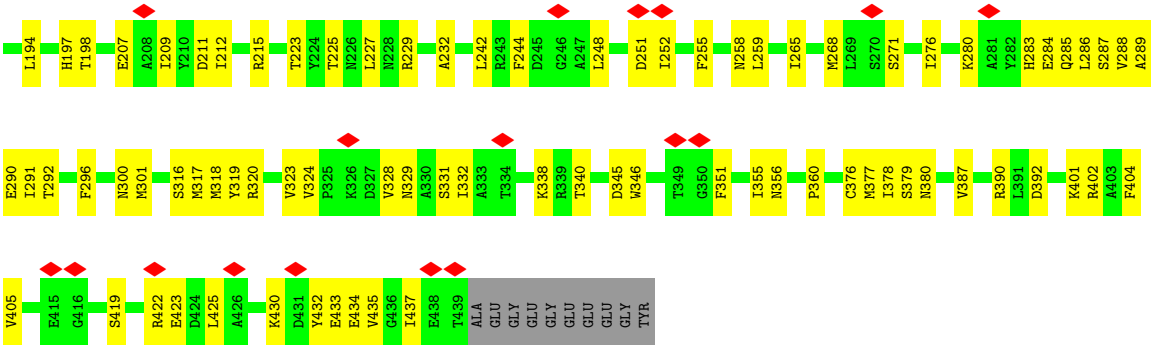


• Molecule 45: Tubulin alpha chain

Chain RI:



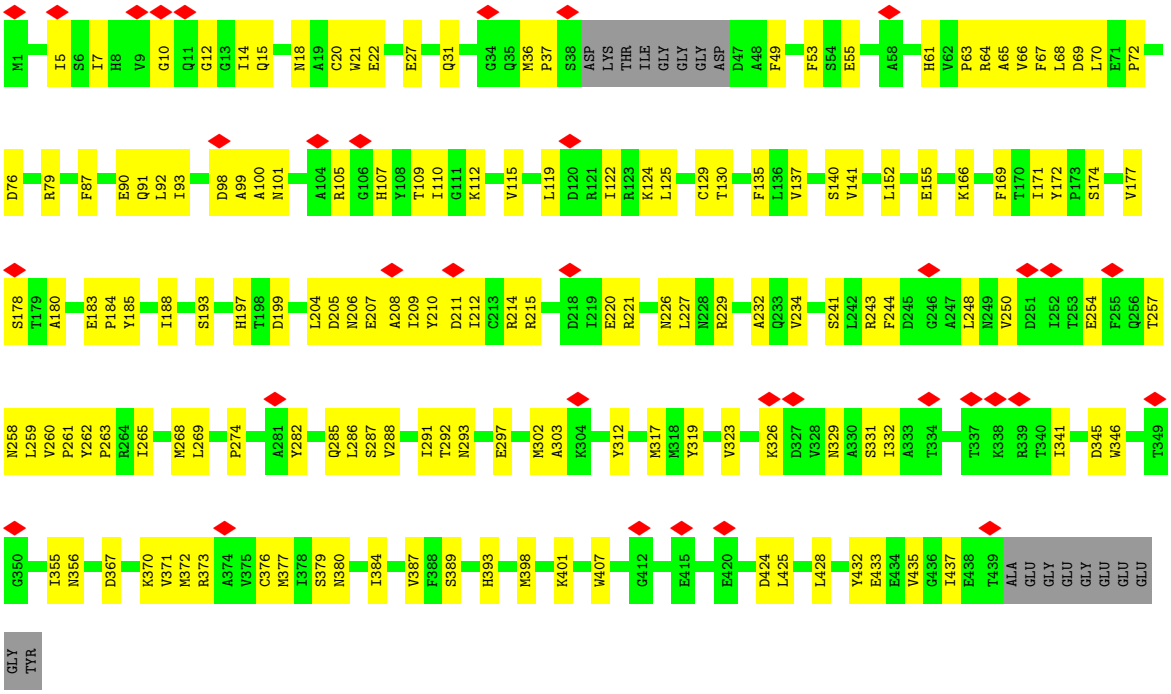




• Molecule 45: Tubulin alpha chain

Chain RK:

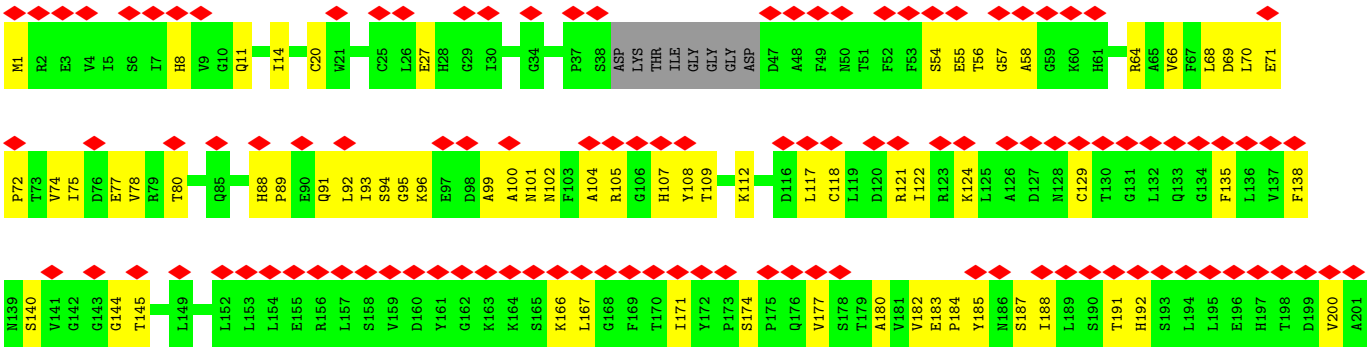


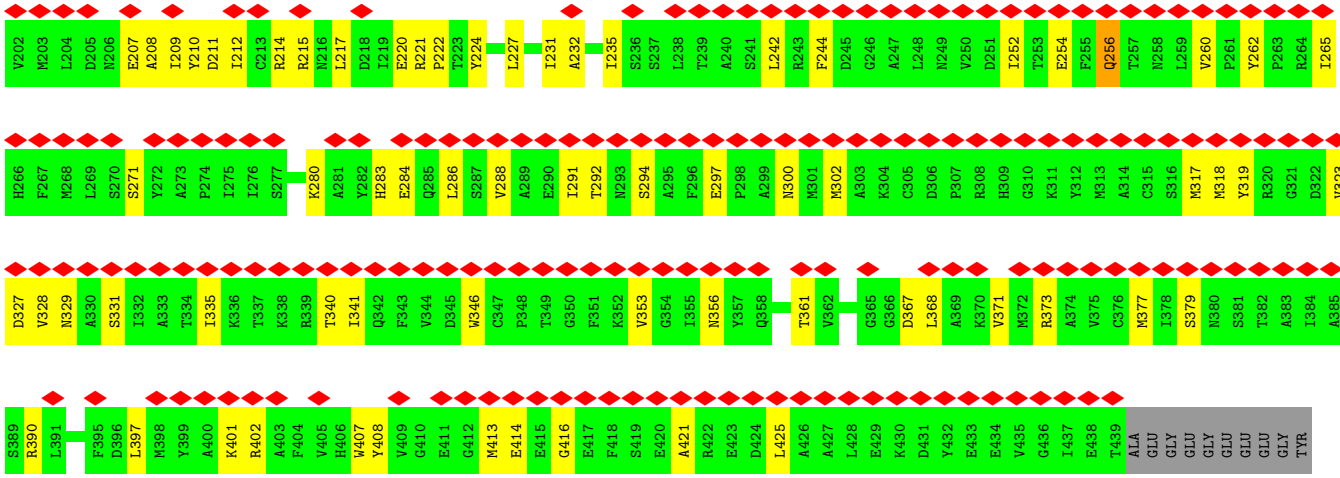


• Molecule 45: Tubulin alpha chain

Chain RM:

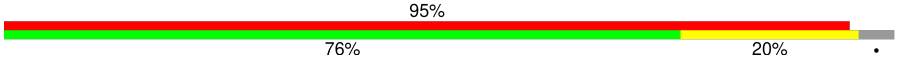


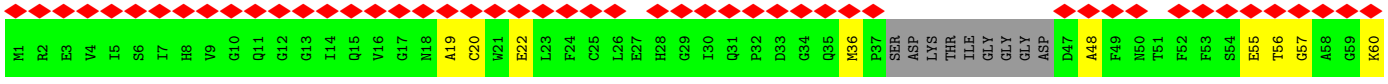


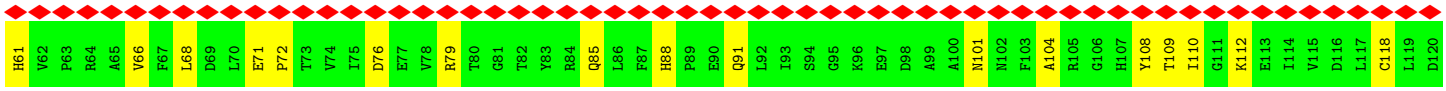


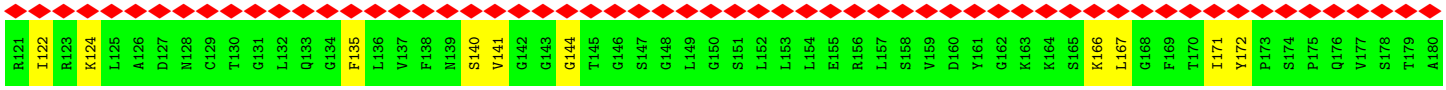
- Molecule 45: Tubulin alpha chain

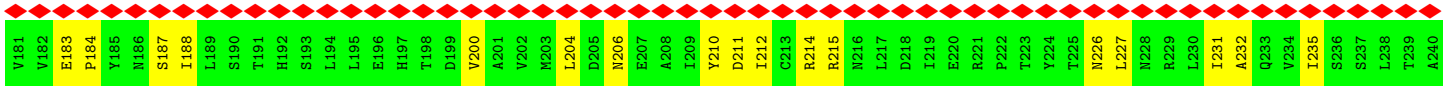
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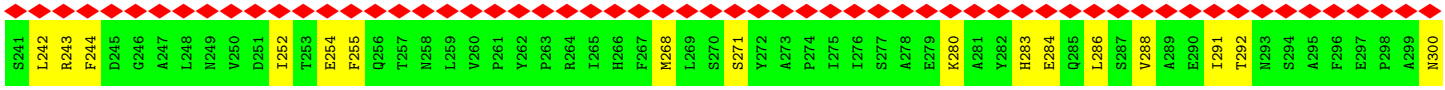


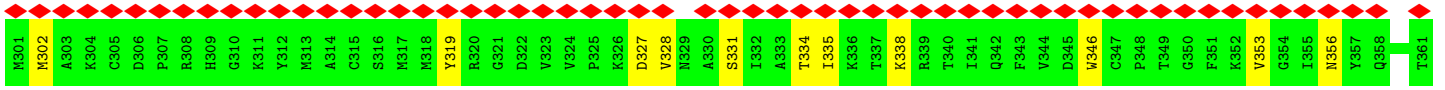


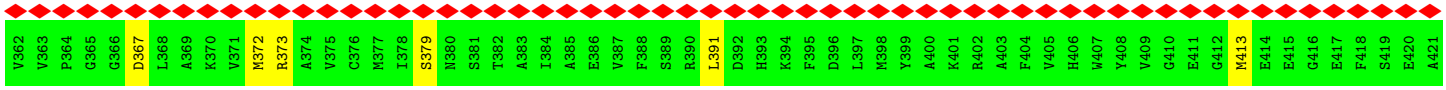


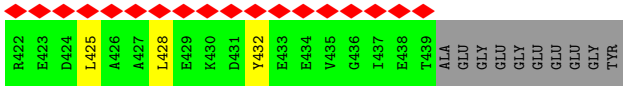








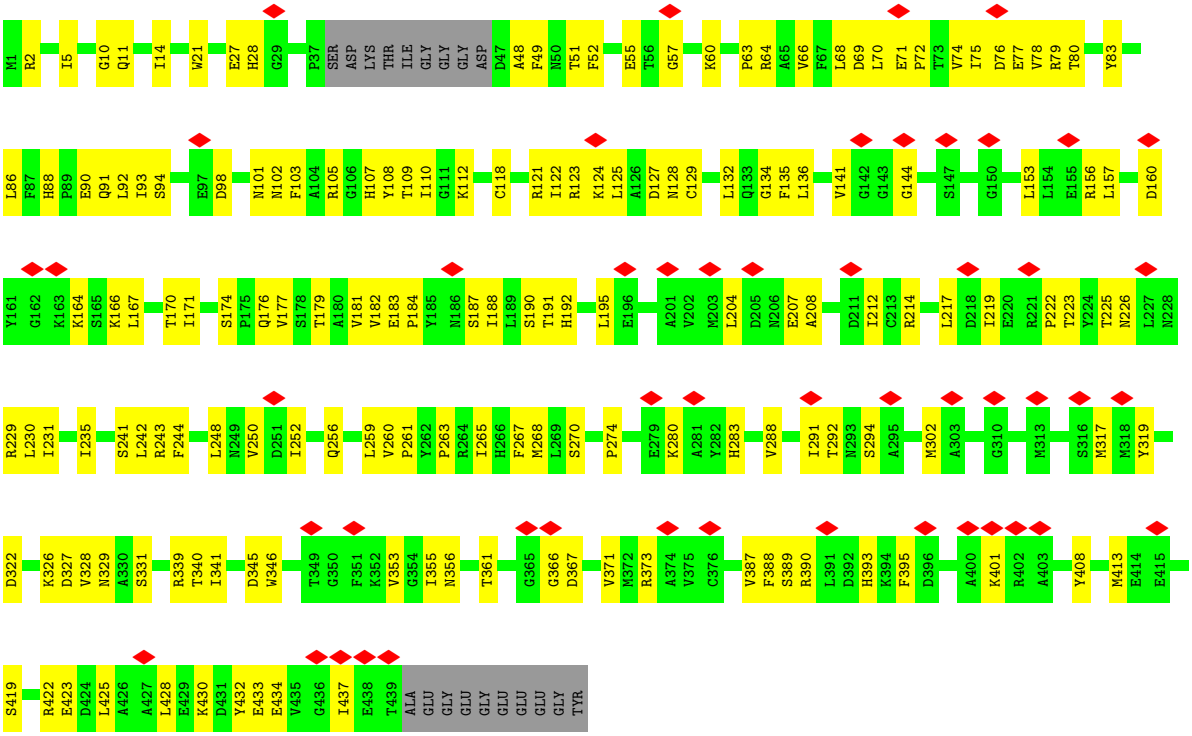




- Molecule 45: Tubulin alpha chain

Chain SC:

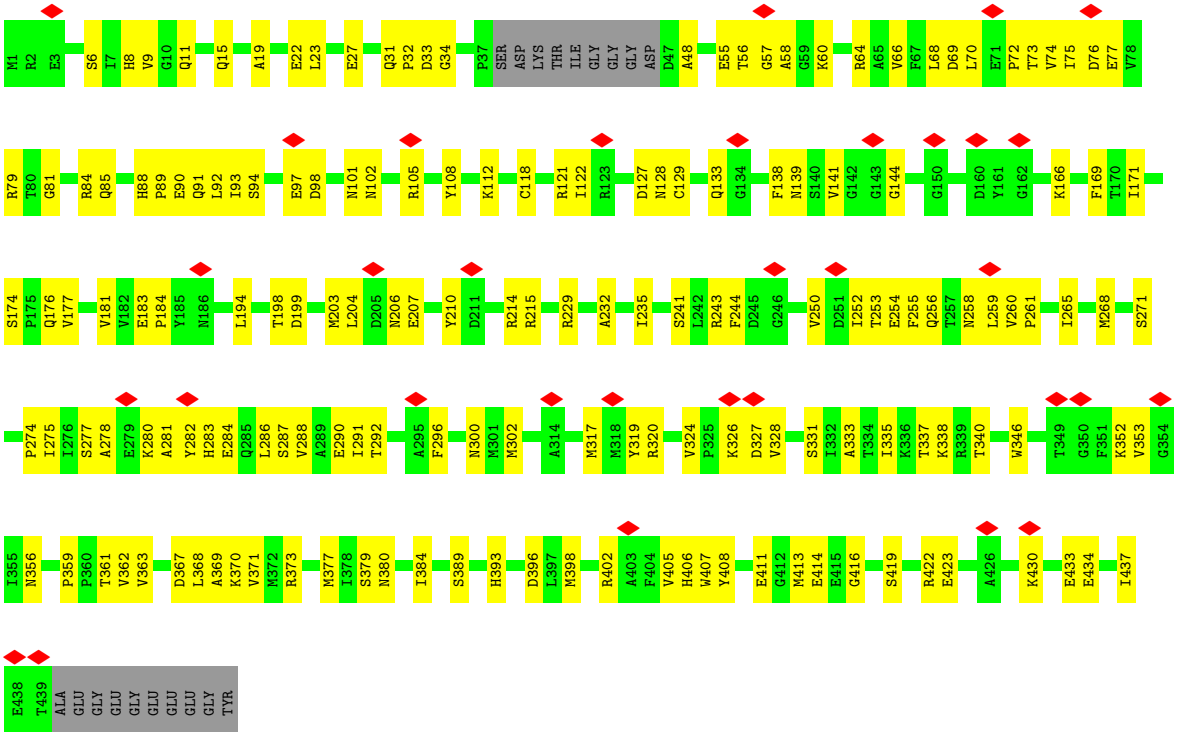




• Molecule 45: Tubulin alpha chain

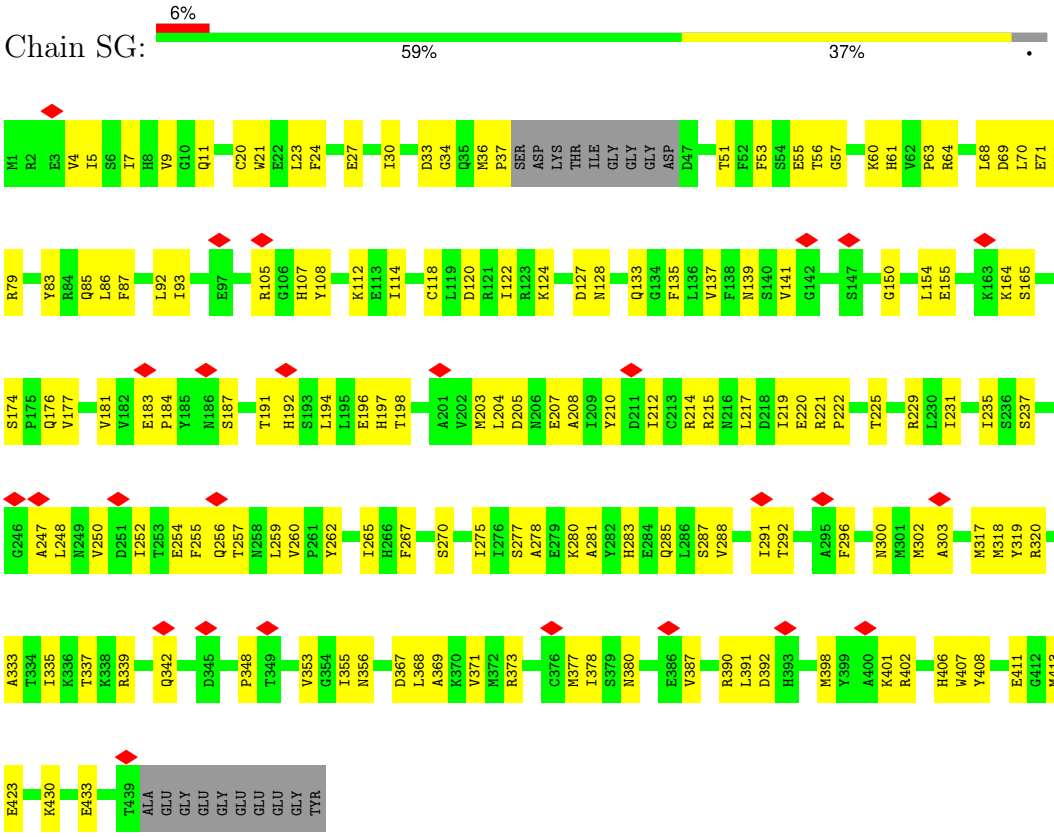
Chain SE:





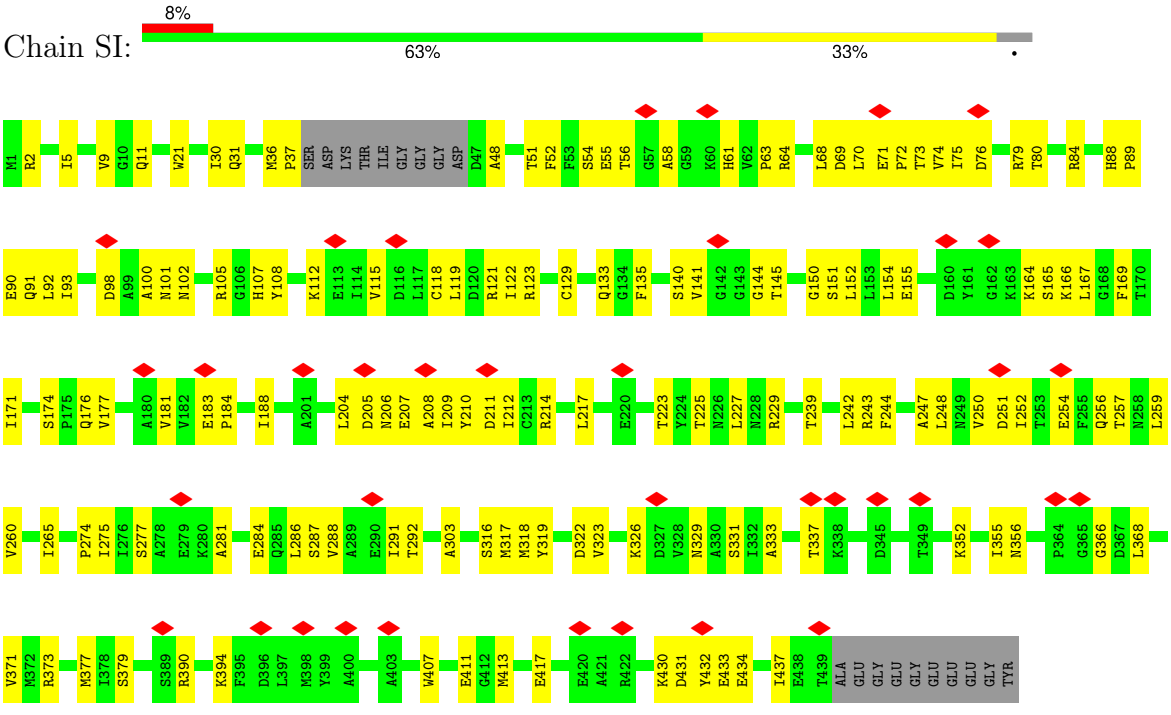
• Molecule 45: Tubulin alpha chain

Chain SG:



• Molecule 45: Tubulin alpha chain

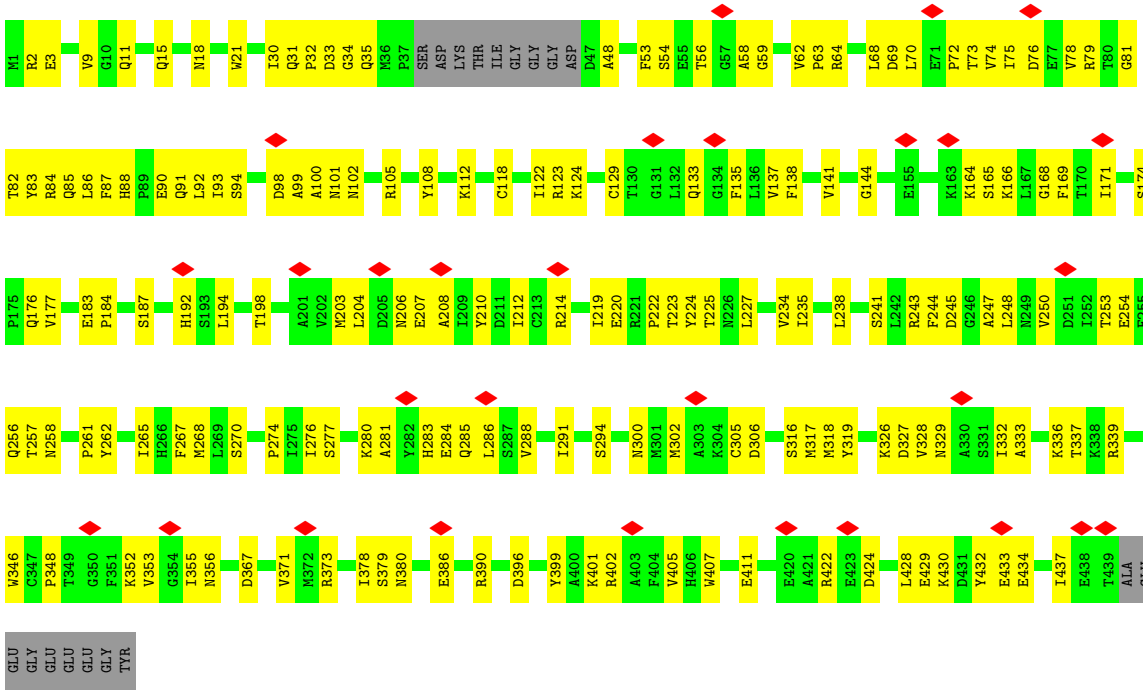
Chain SI:



• Molecule 45: Tubulin alpha chain

Chain SK:

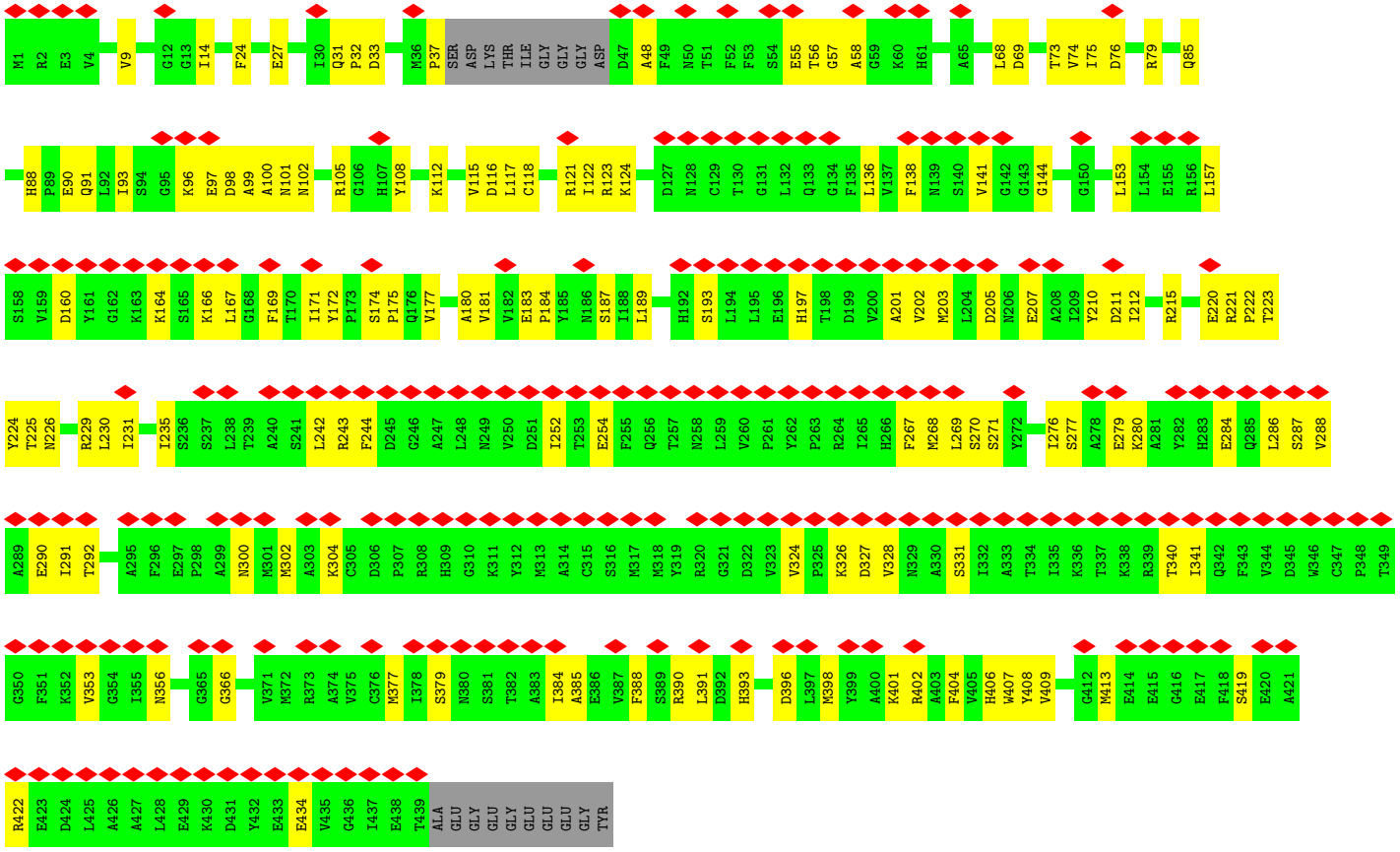




• Molecule 45: Tubulin alpha chain

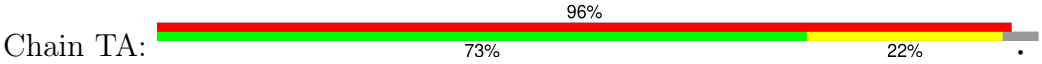
Chain SM:

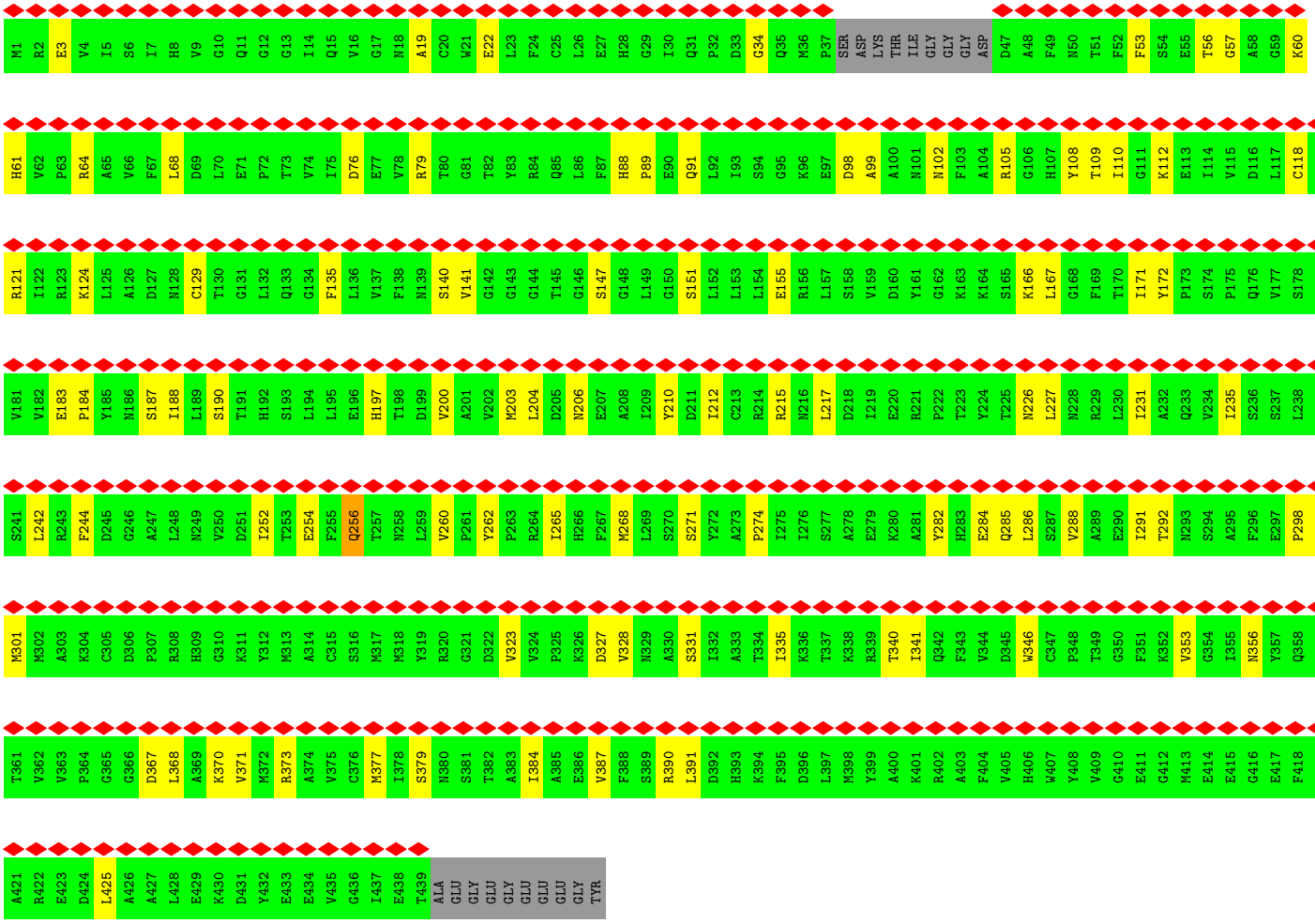




• Molecule 45: Tubulin alpha chain

Chain TA:

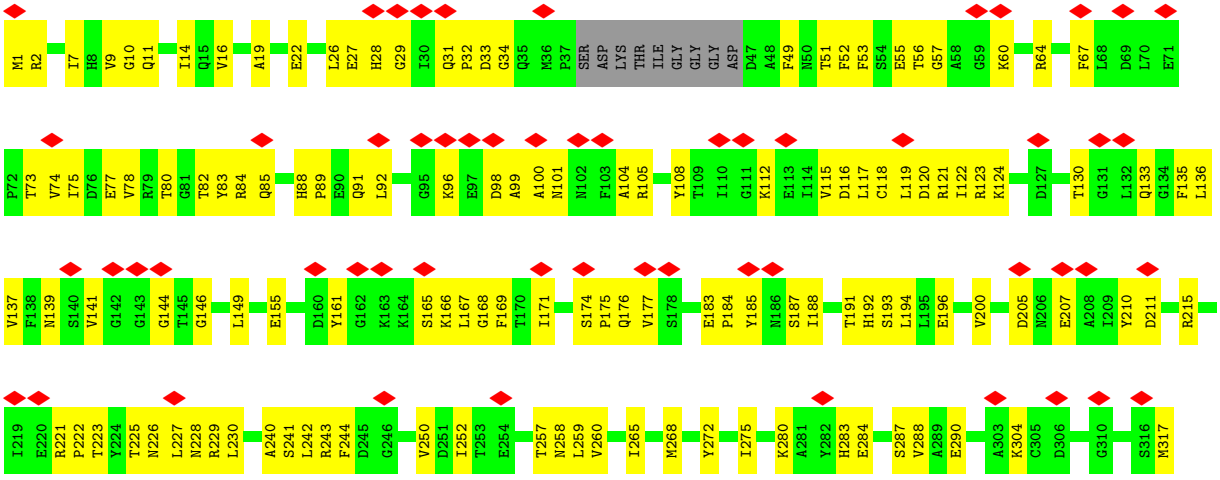


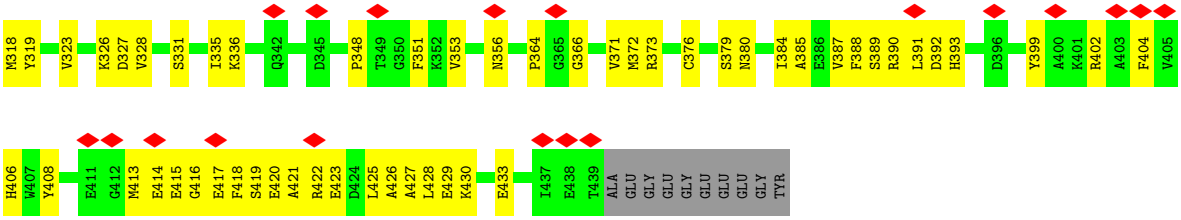


• Molecule 45: Tubulin alpha chain

Chain TC:



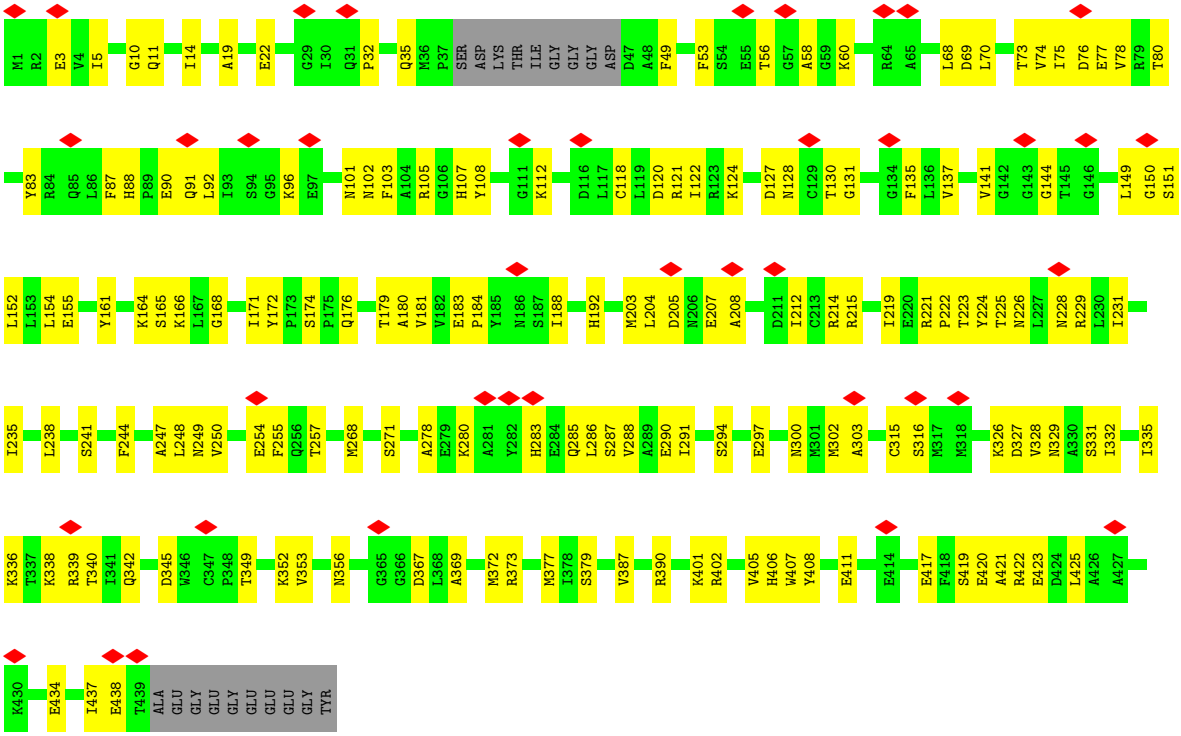




• Molecule 45: Tubulin alpha chain

Chain TE:

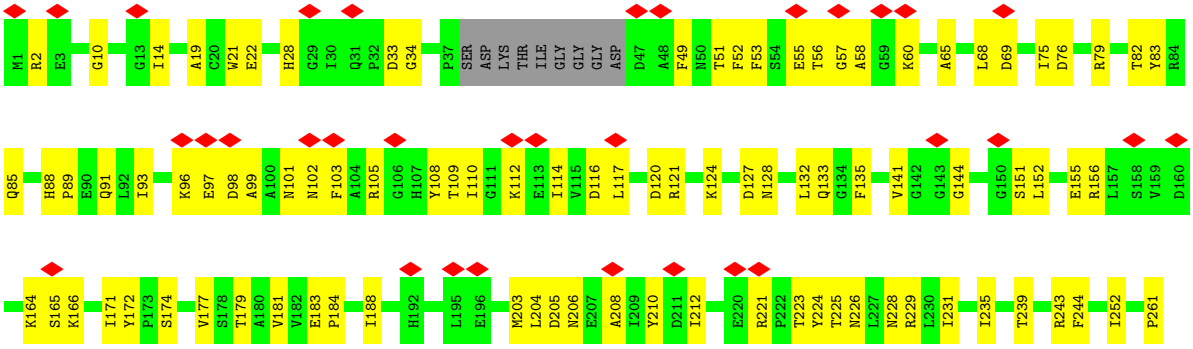


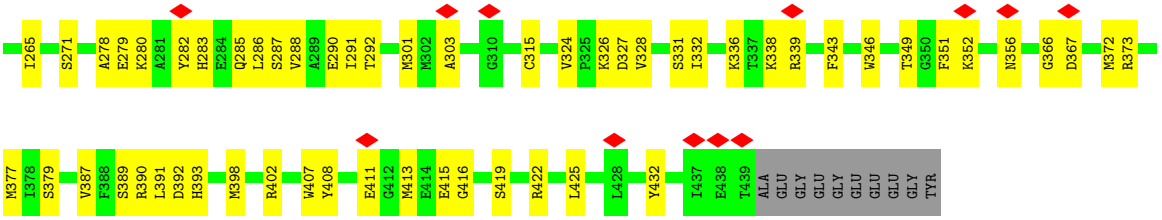


• Molecule 45: Tubulin alpha chain

Chain TG:



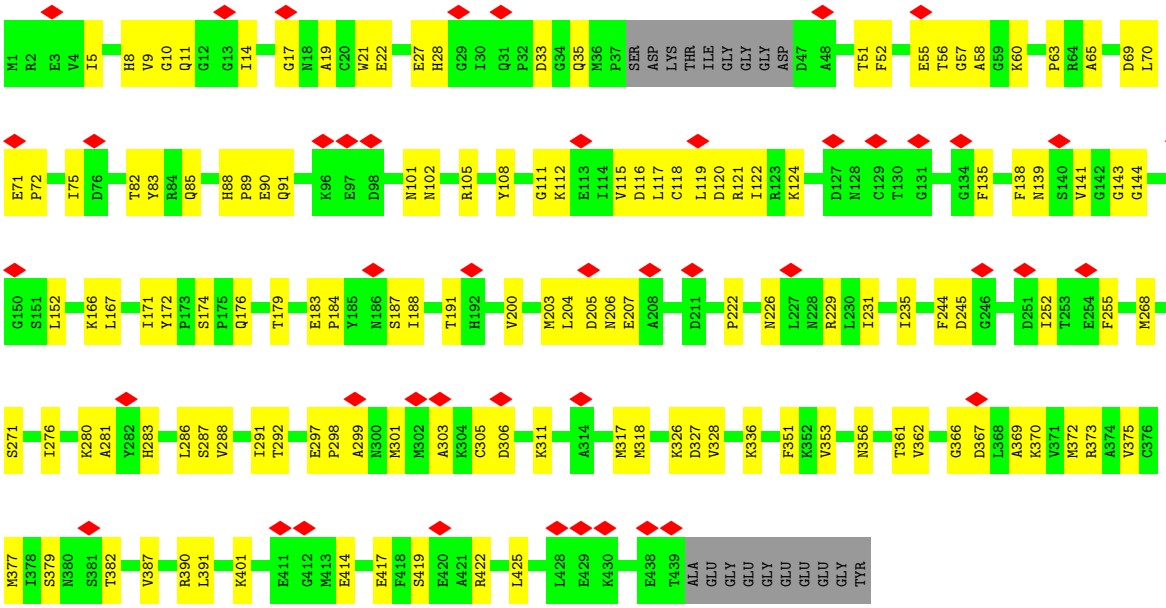




• Molecule 45: Tubulin alpha chain

Chain TI:

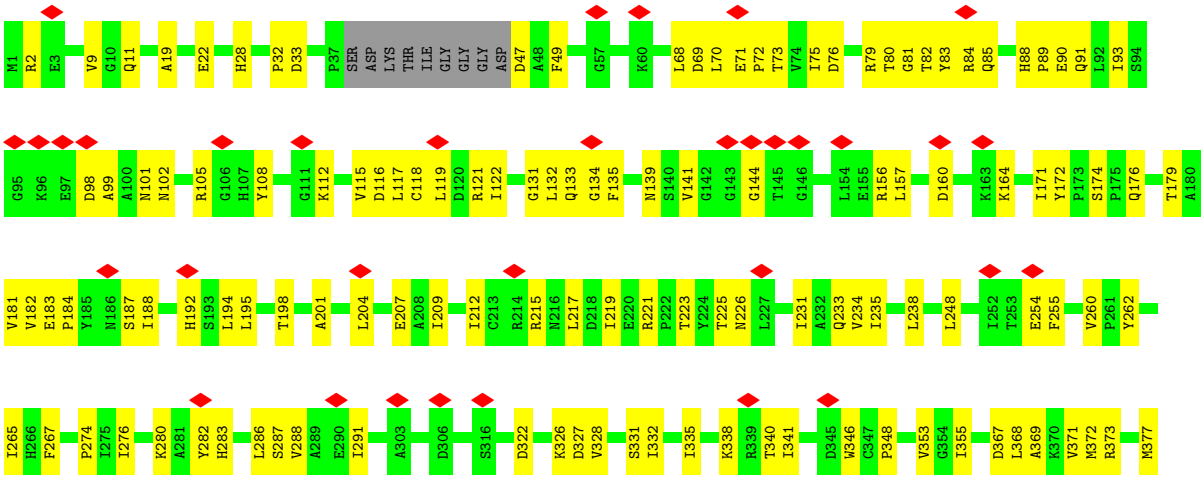


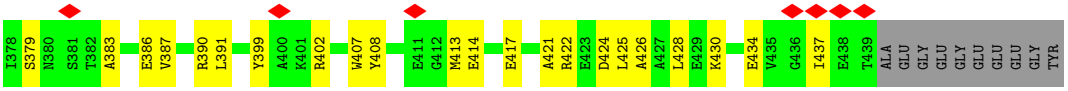


• Molecule 45: Tubulin alpha chain

Chain TK:



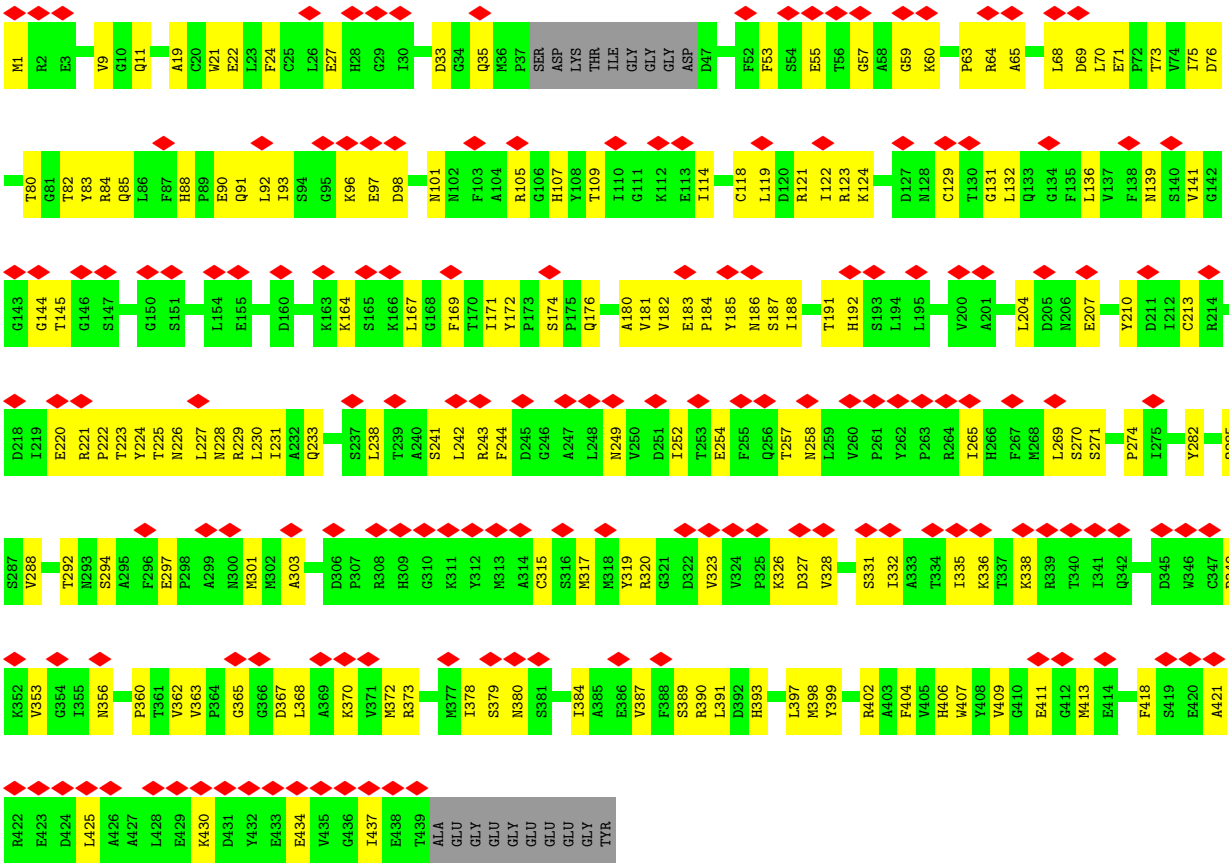




• Molecule 45: Tubulin alpha chain

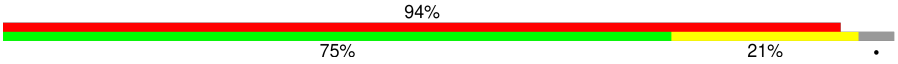
Chain TM:

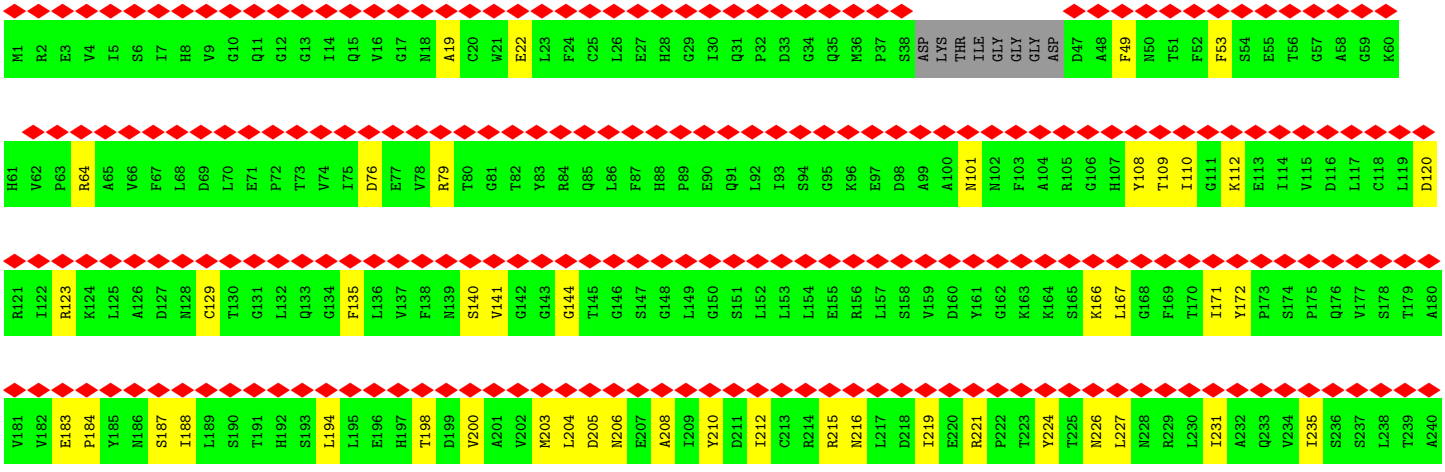


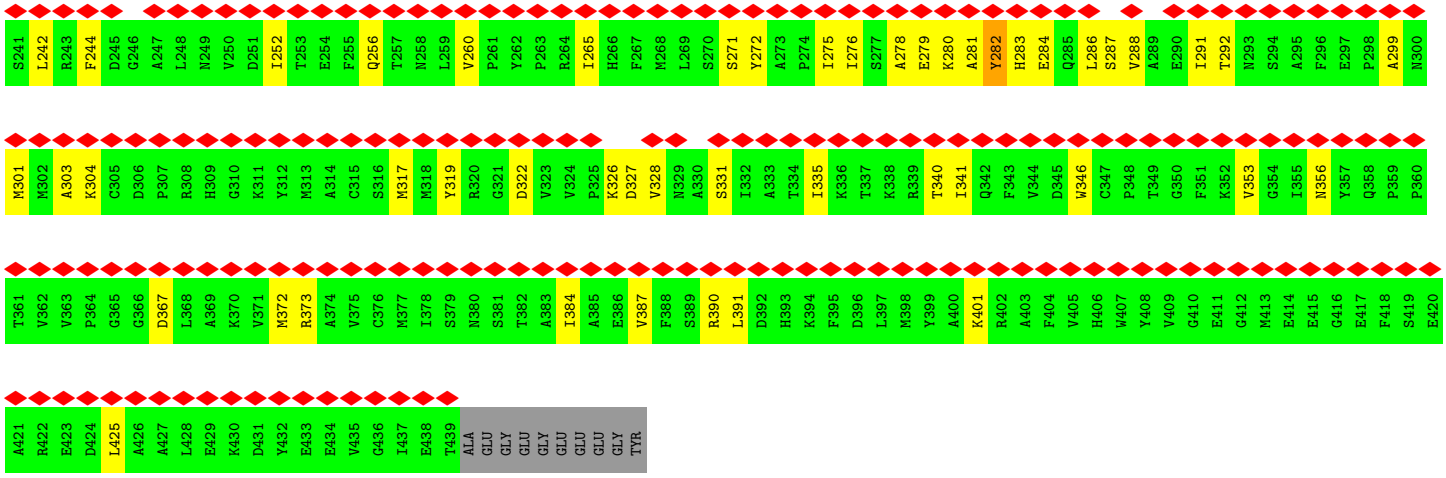


• Molecule 45: Tubulin alpha chain

Chain UA:



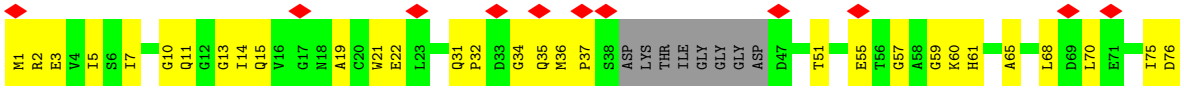


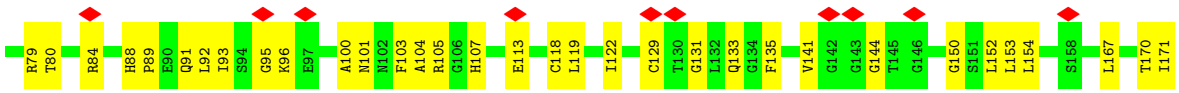


• Molecule 45: Tubulin alpha chain

Chain UC:



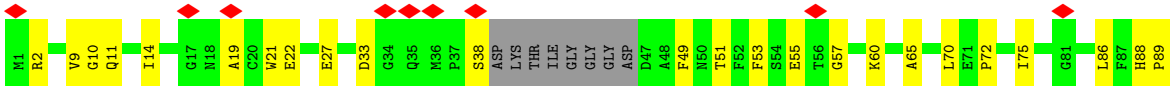


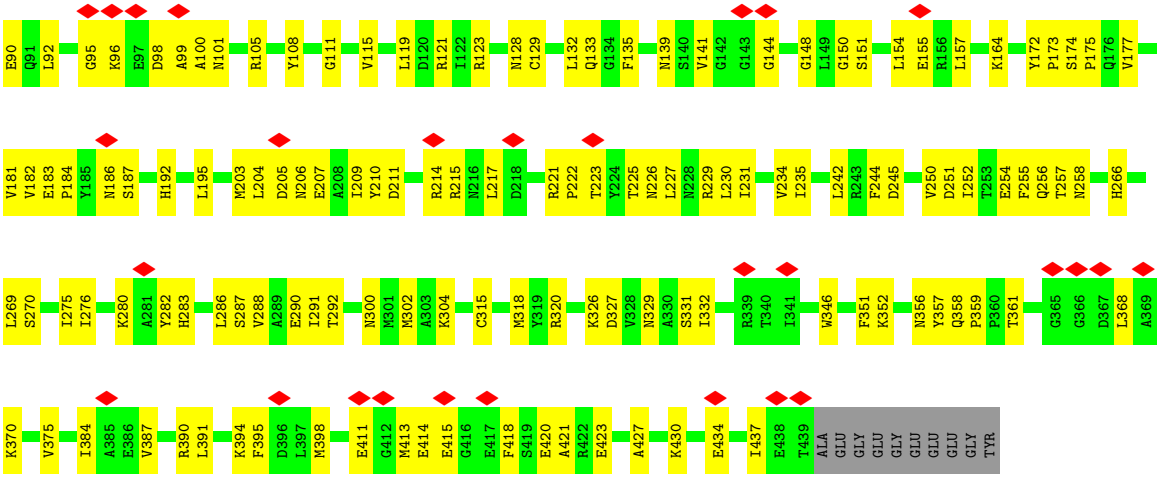


• Molecule 45: Tubulin alpha chain

Chain UE:



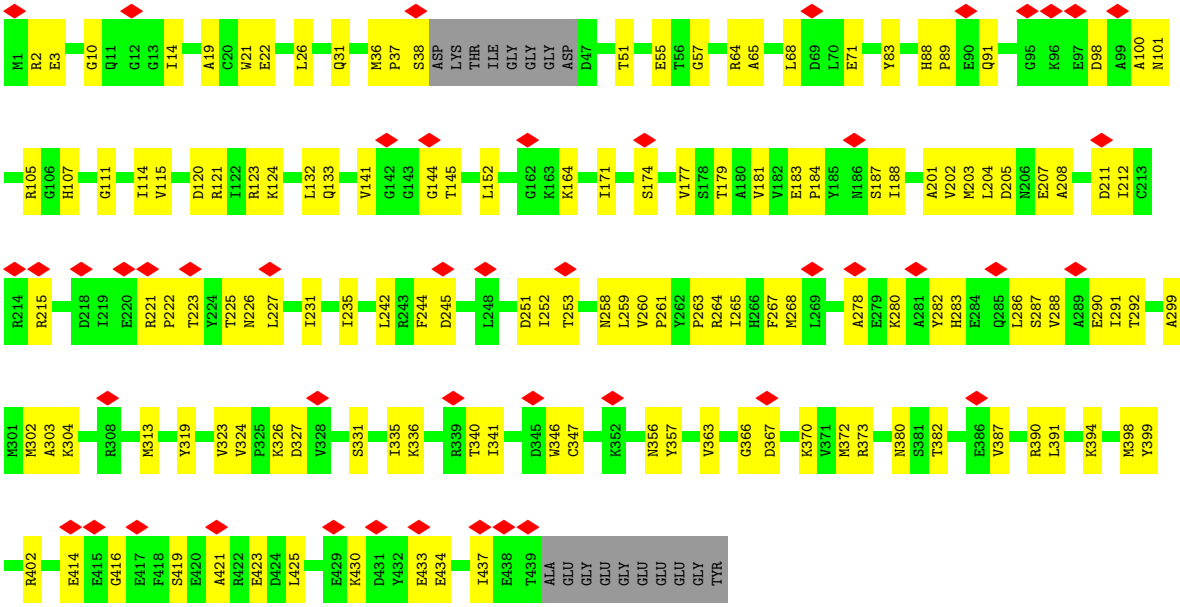




• Molecule 45: Tubulin alpha chain

Chain UG:

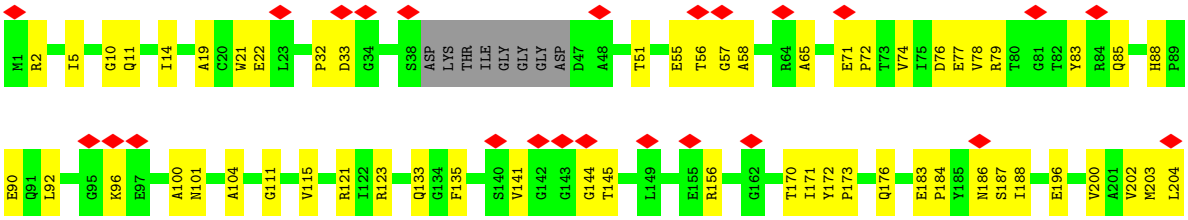


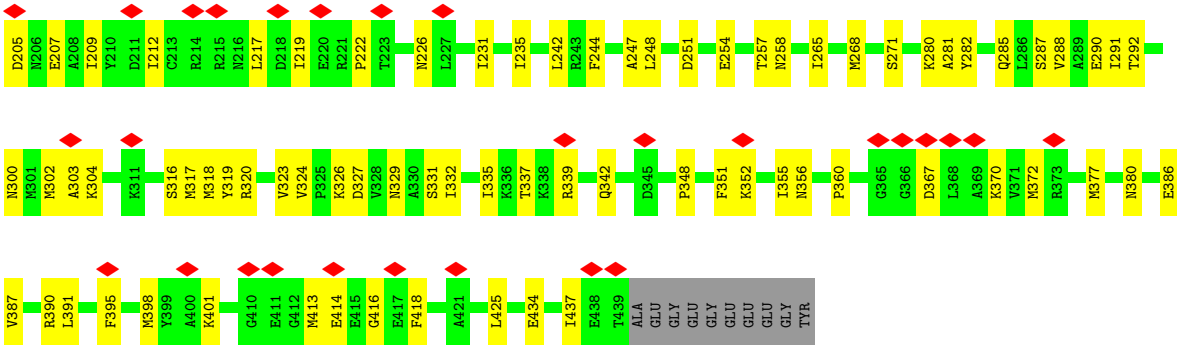


• Molecule 45: Tubulin alpha chain

Chain UI:



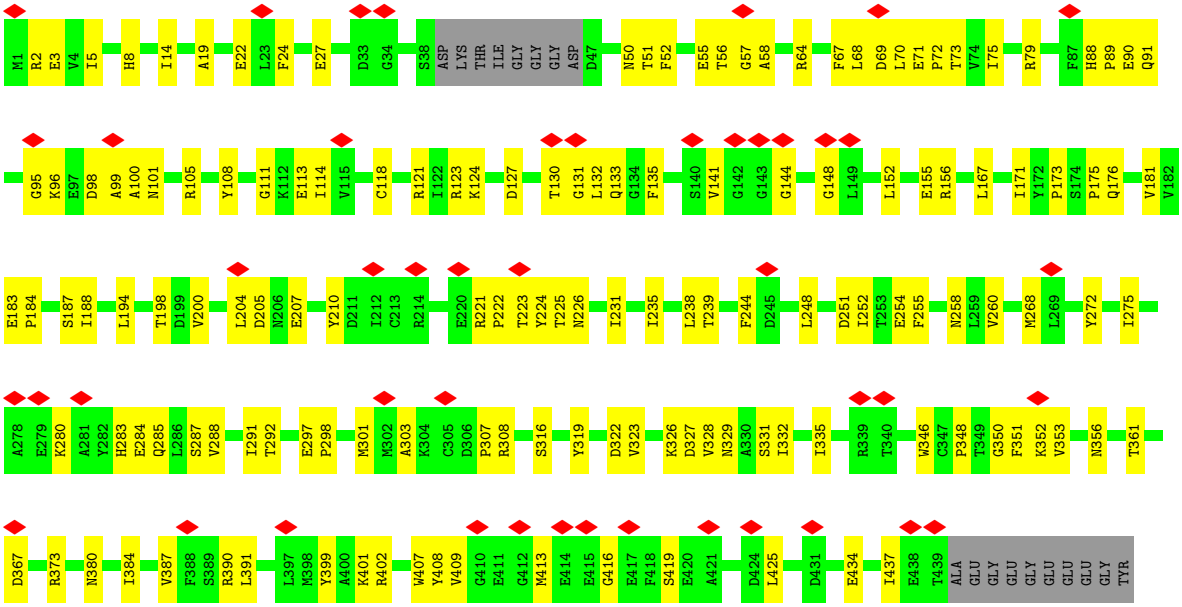




• Molecule 45: Tubulin alpha chain

Chain UK:

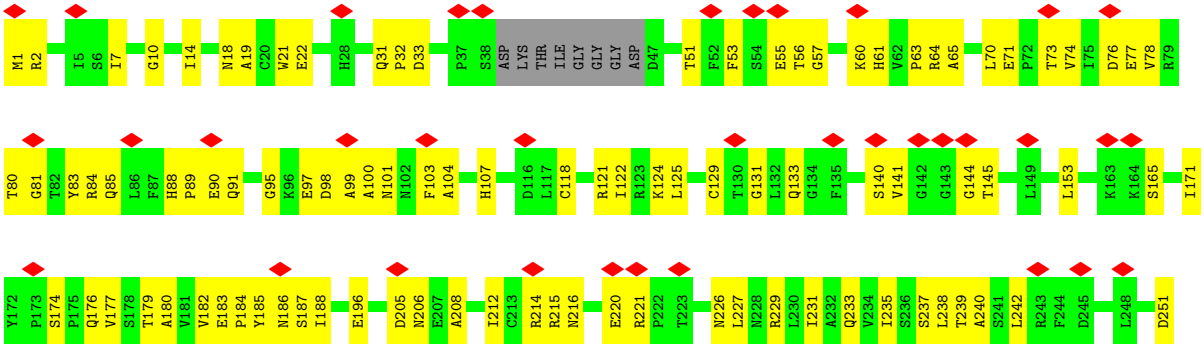


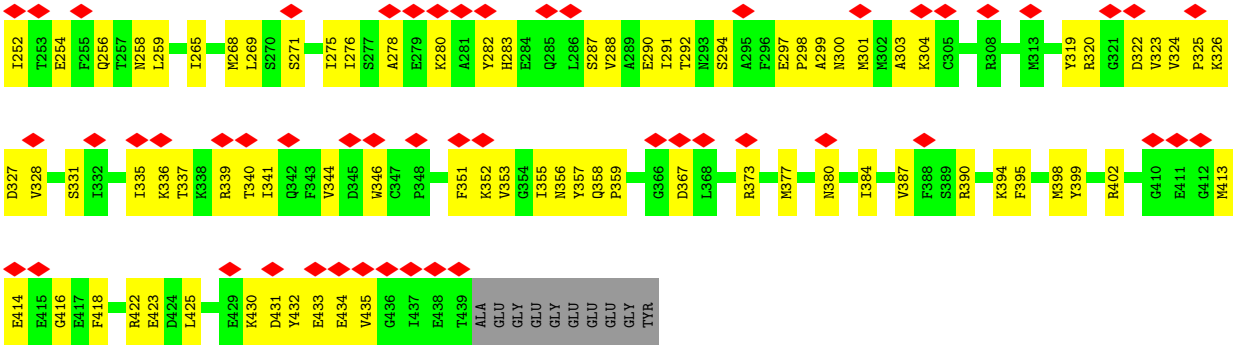


• Molecule 45: Tubulin alpha chain

Chain UM:



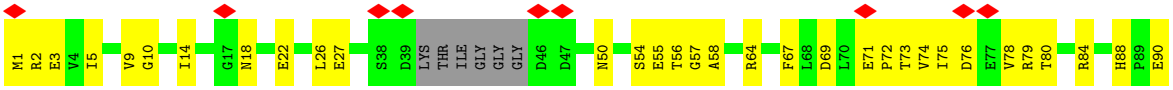


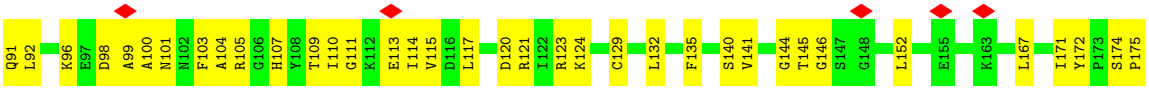


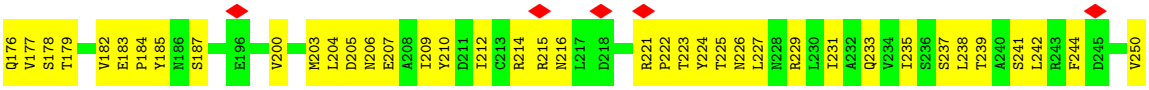
• Molecule 45: Tubulin alpha chain

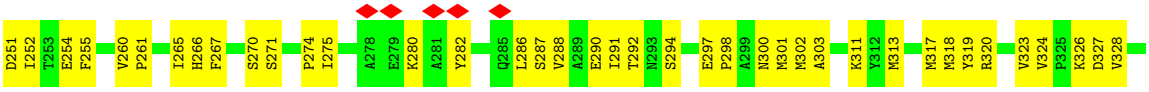
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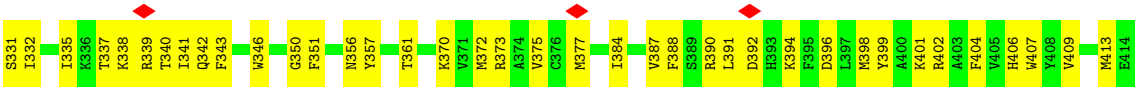


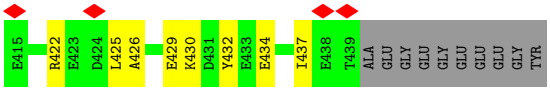








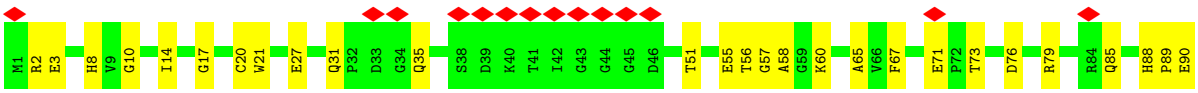


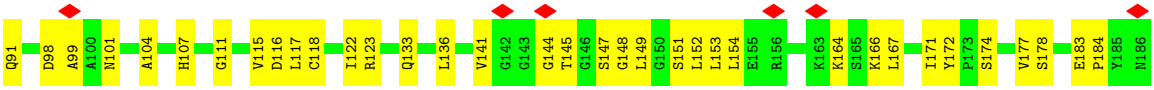


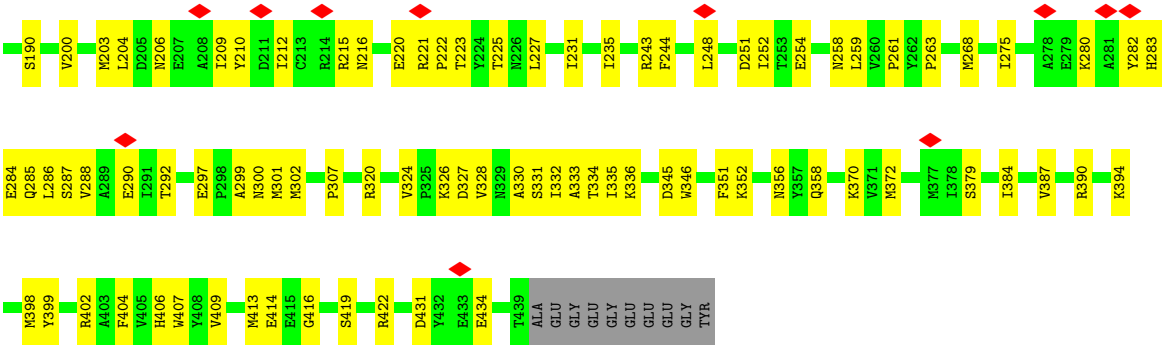
• Molecule 45: Tubulin alpha chain

Chain VC:





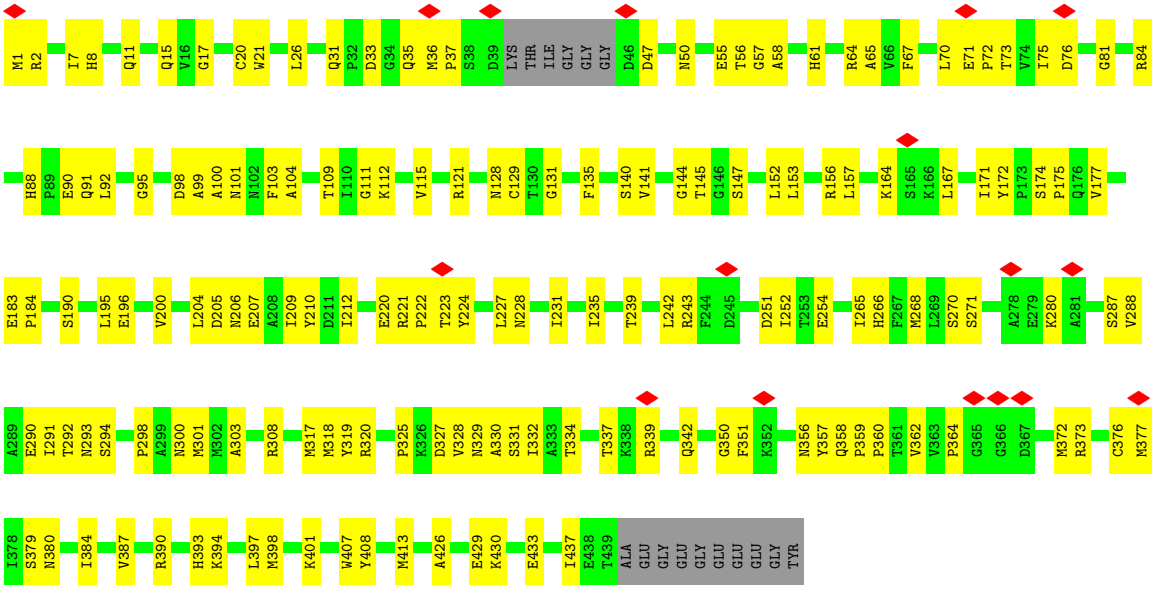




• Molecule 45: Tubulin alpha chain

Chain VE:

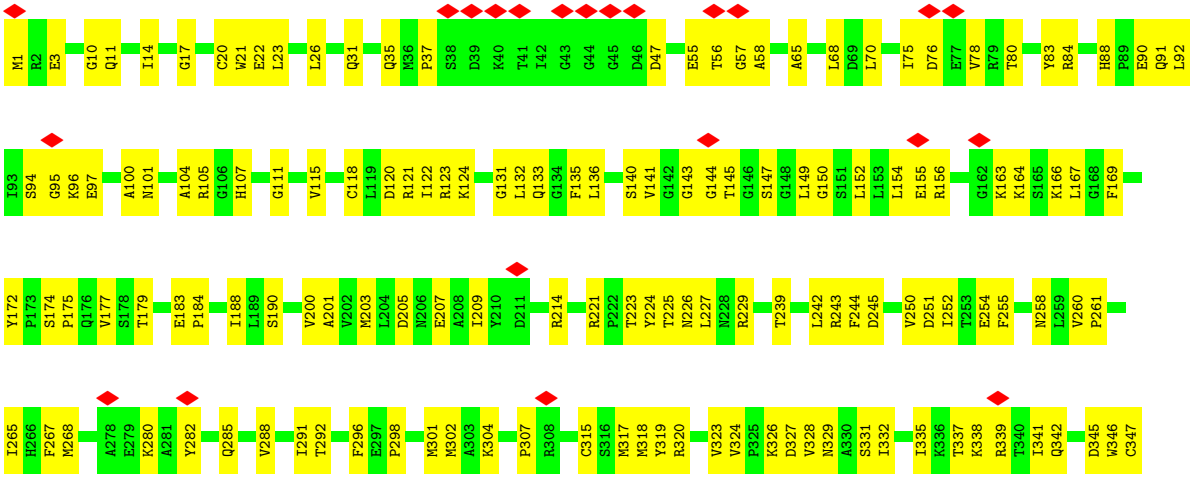


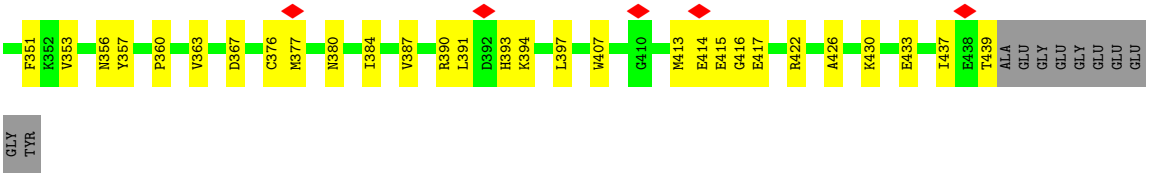


• Molecule 45: Tubulin alpha chain

Chain VG:



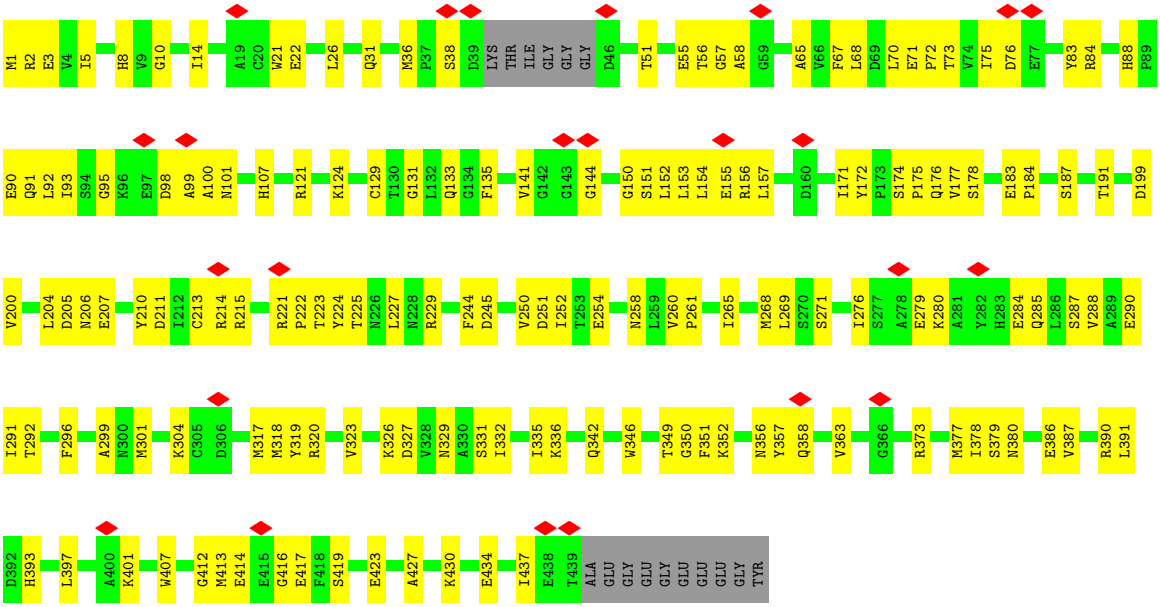




• Molecule 45: Tubulin alpha chain

Chain VI:

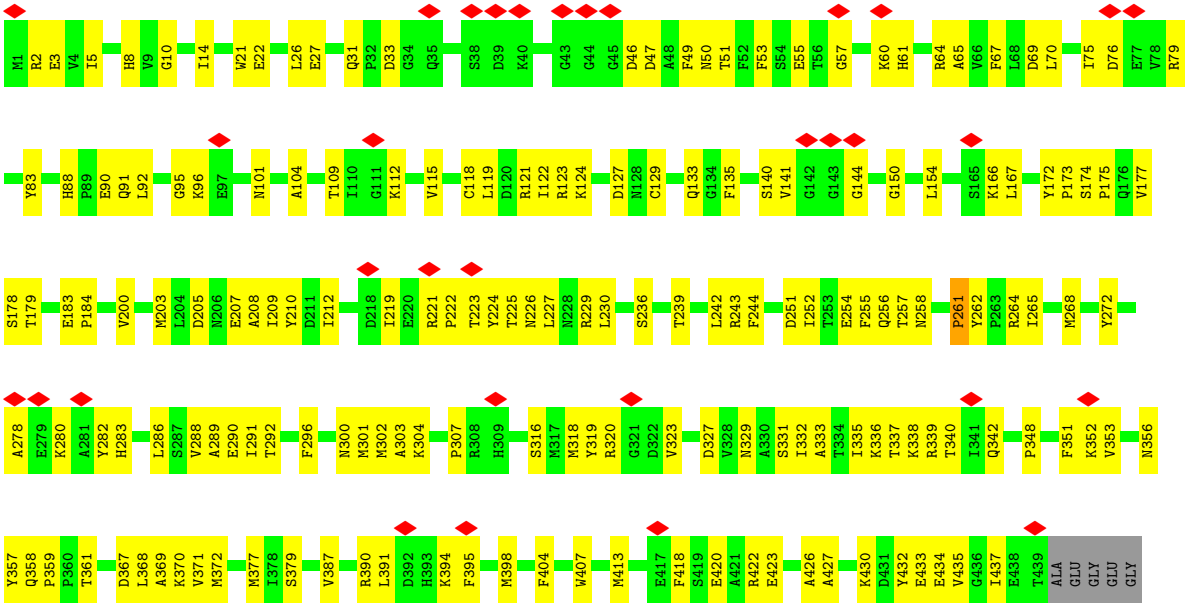




• Molecule 45: Tubulin alpha chain

Chain VK:

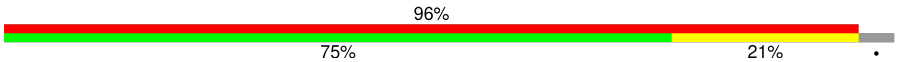


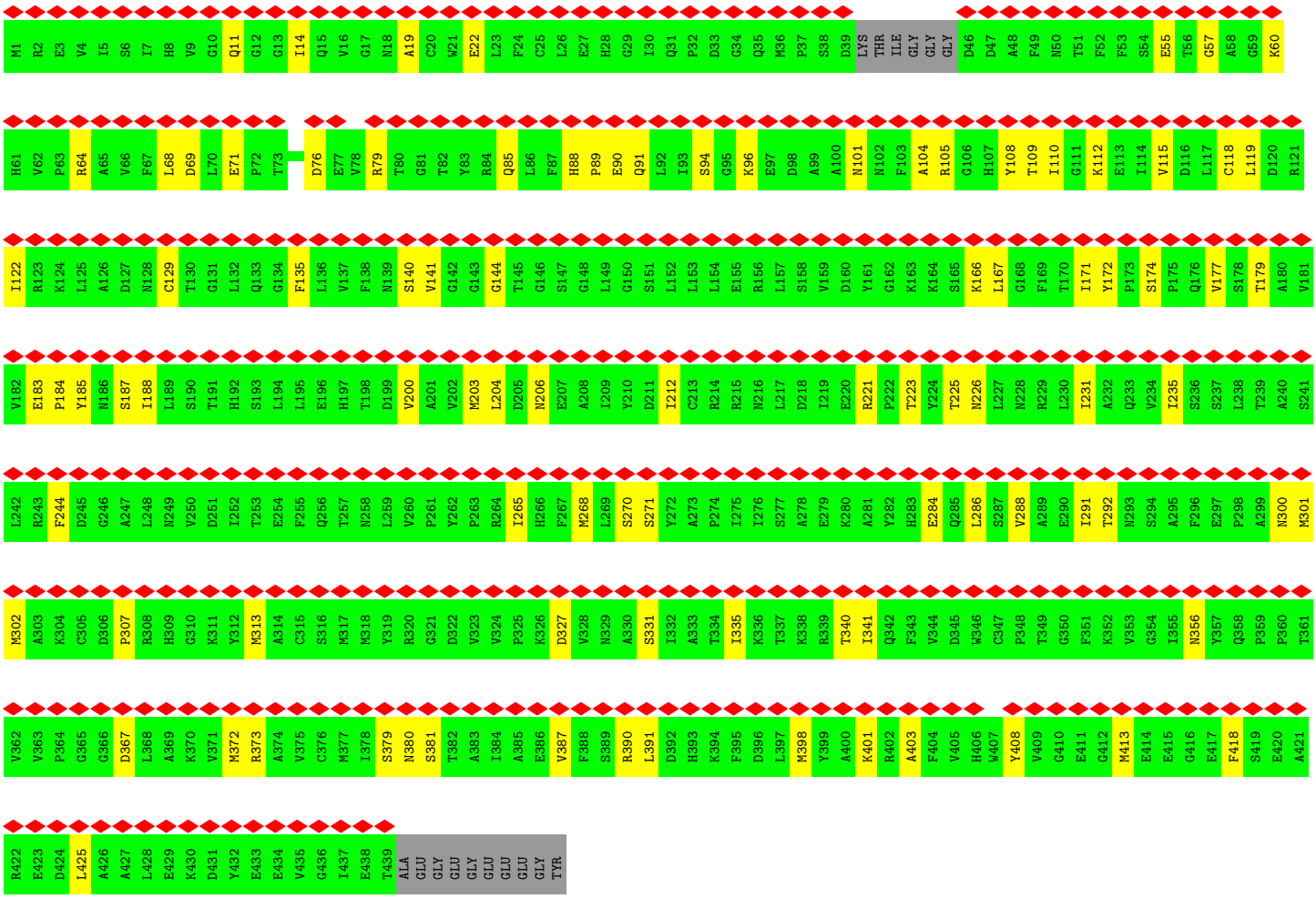




• Molecule 45: Tubulin alpha chain

Chain VM:

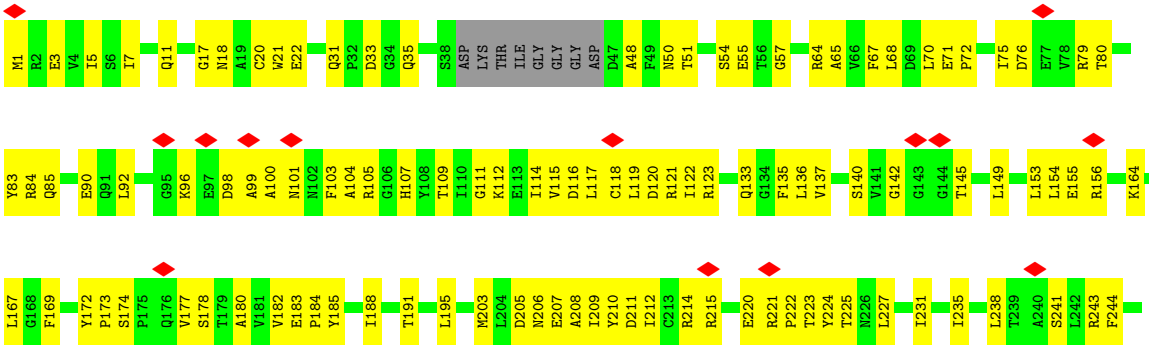


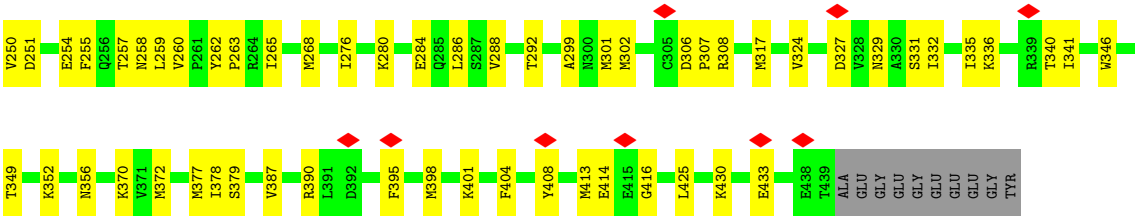


• Molecule 45: Tubulin alpha chain

Chain WA:



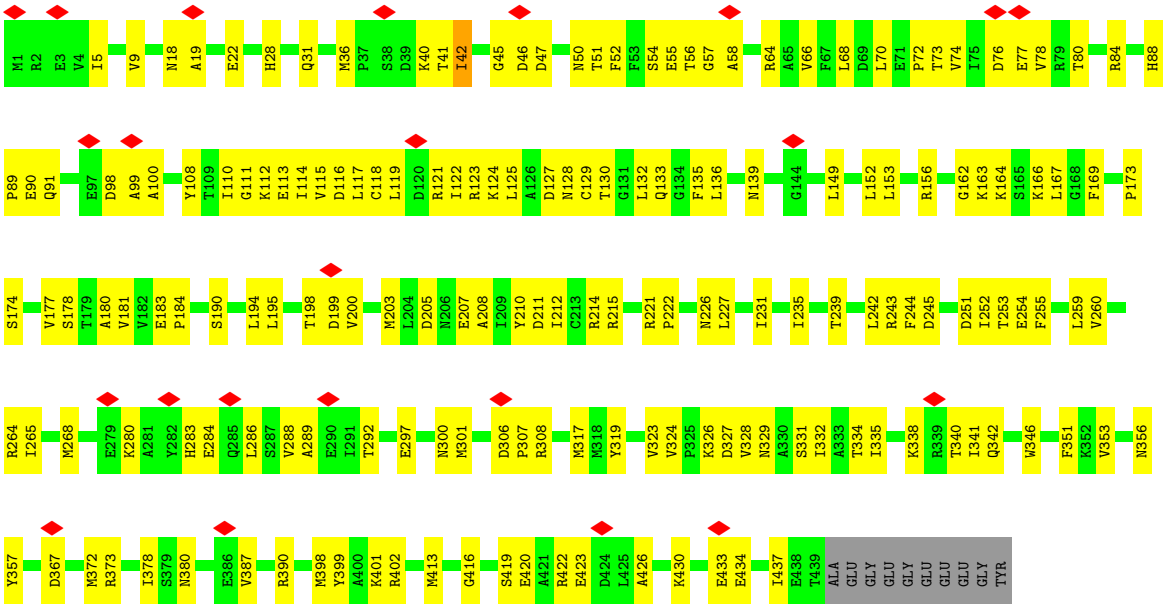




• Molecule 45: Tubulin alpha chain

Chain WC:

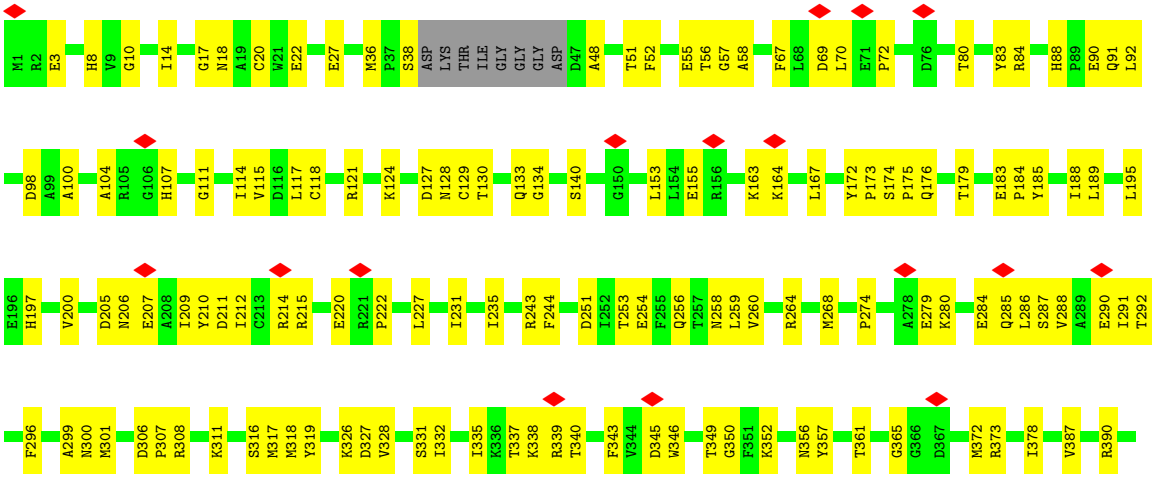


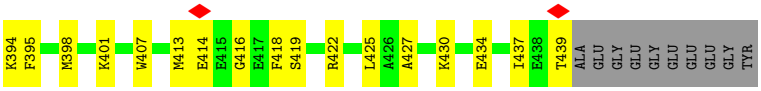


• Molecule 45: Tubulin alpha chain

Chain WE:



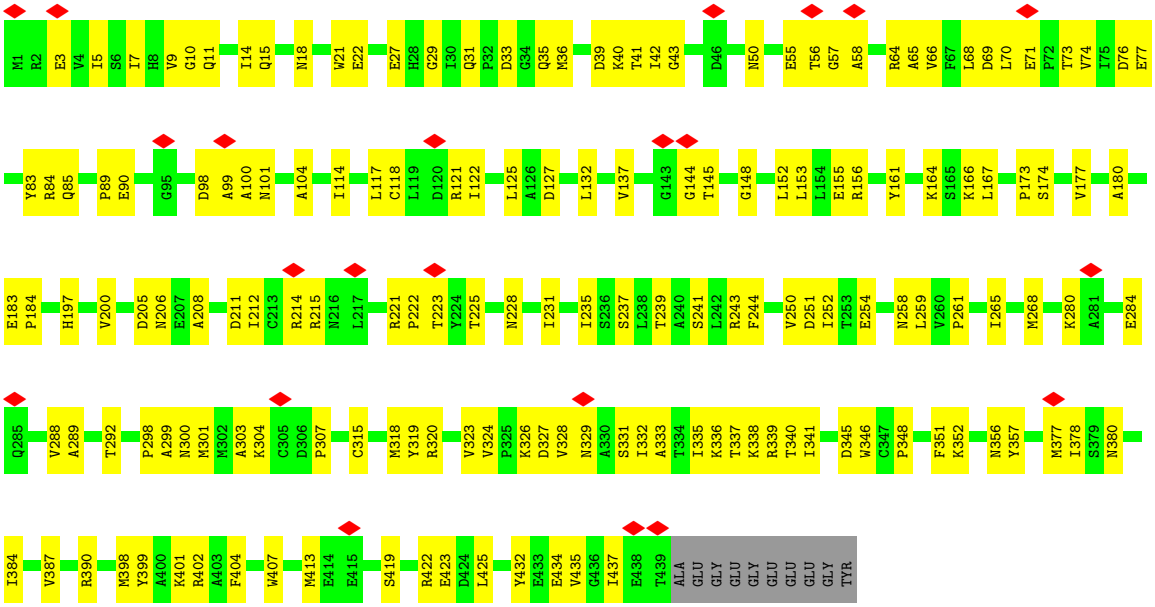




• Molecule 45: Tubulin alpha chain

Chain WG:

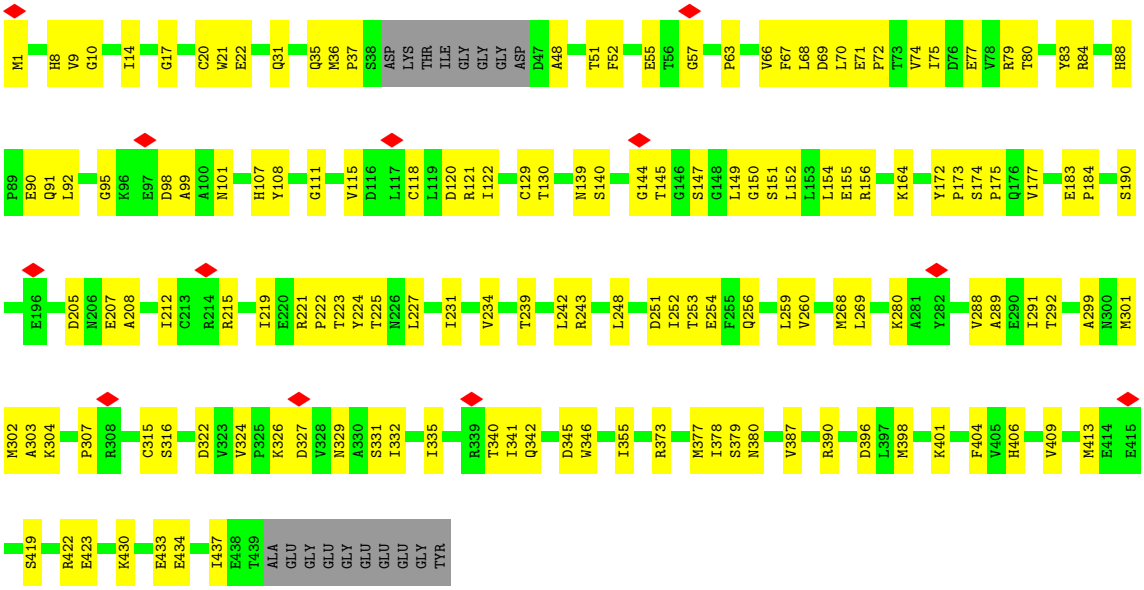




• Molecule 45: Tubulin alpha chain

Chain WI:

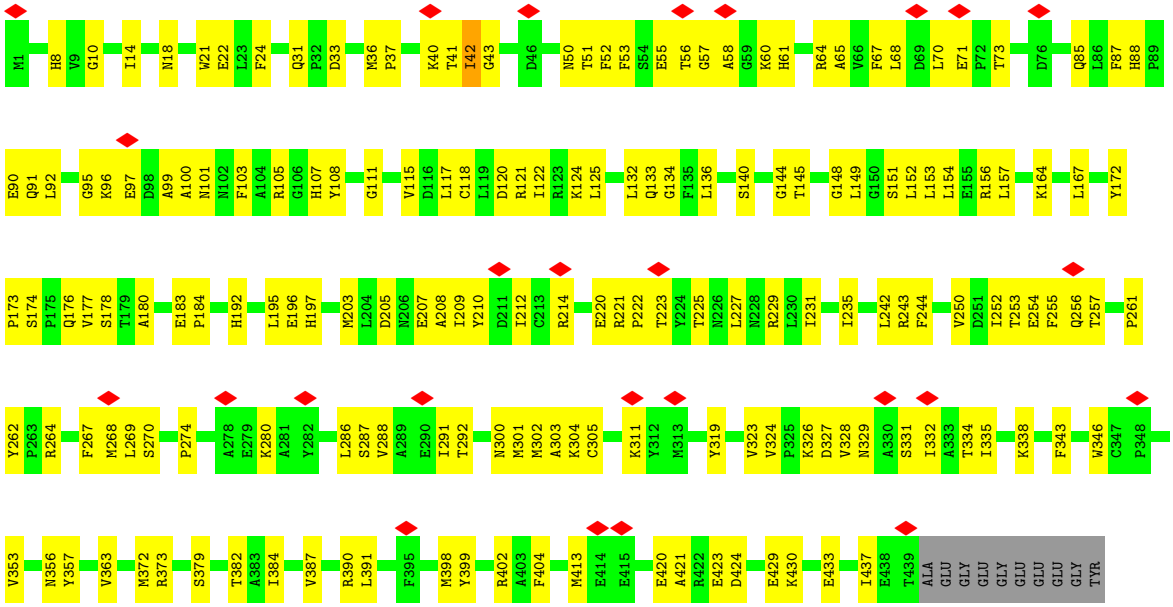




• Molecule 45: Tubulin alpha chain

Chain WK:

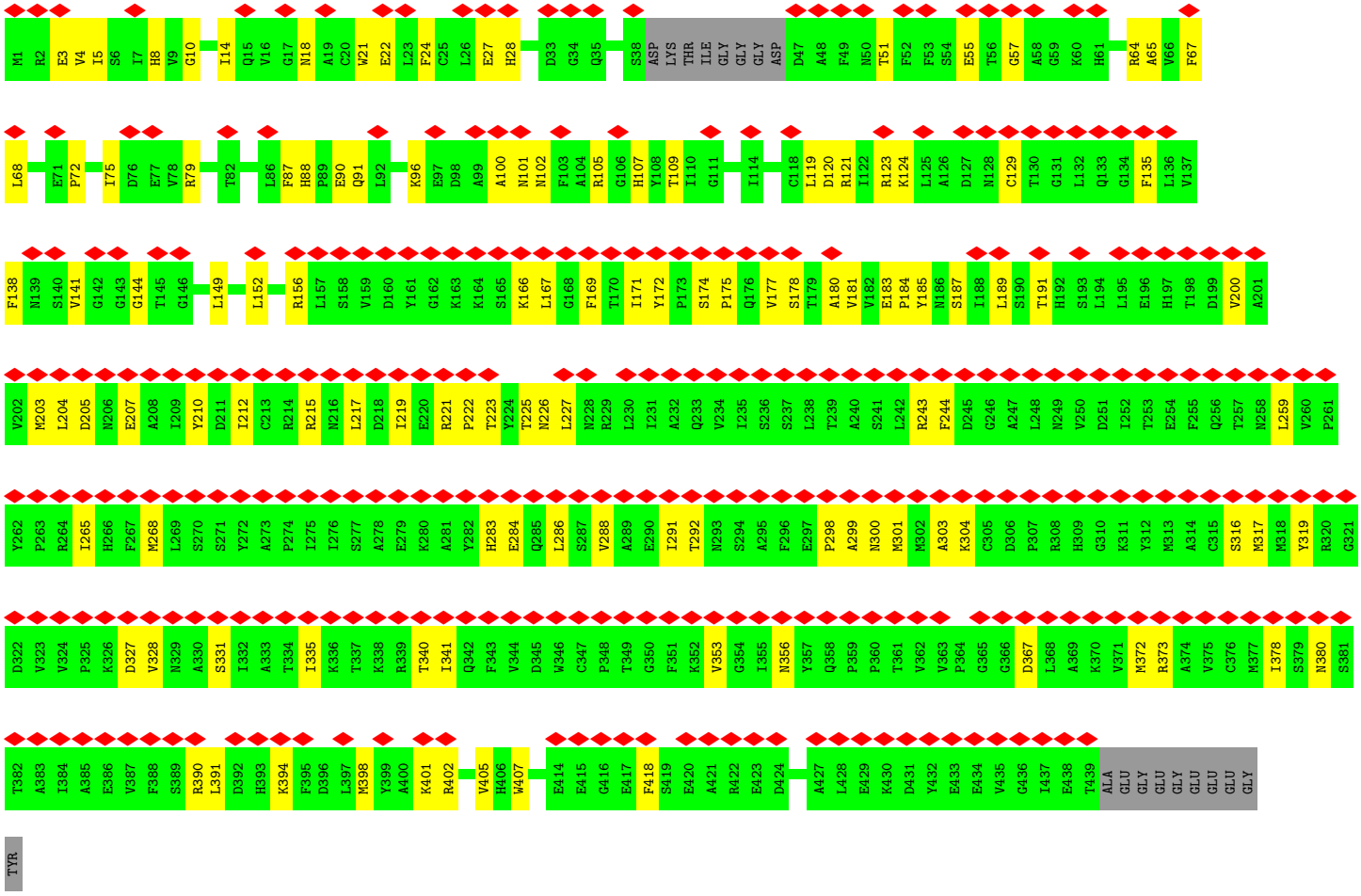




• Molecule 45: Tubulin alpha chain

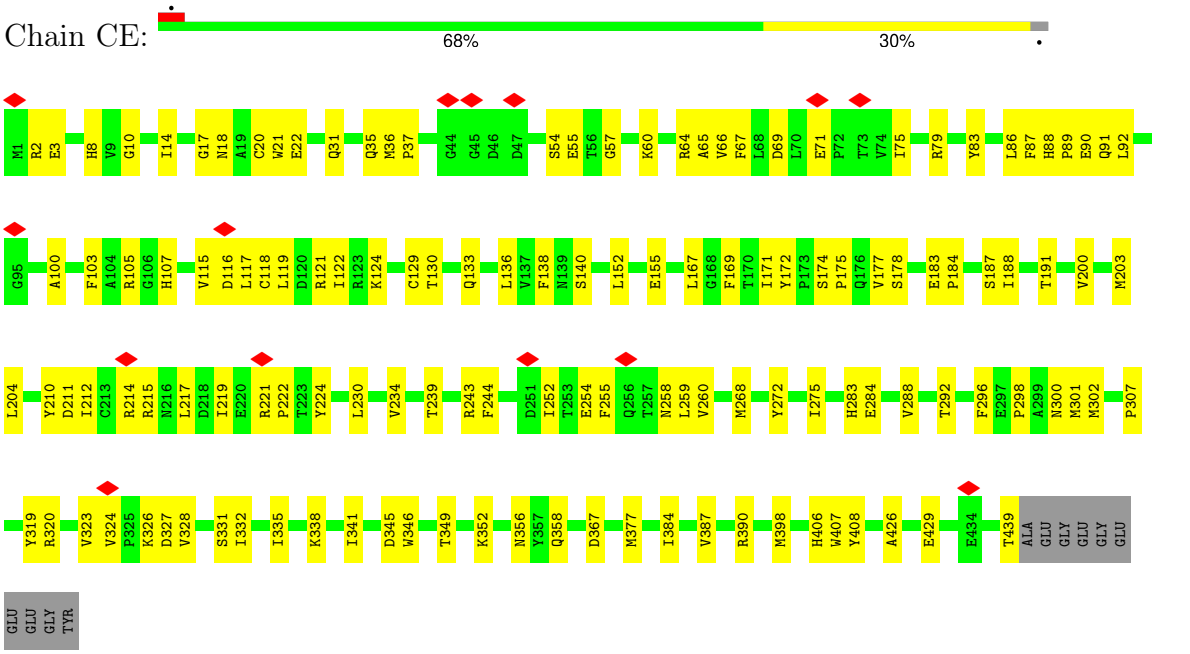
Chain WM:





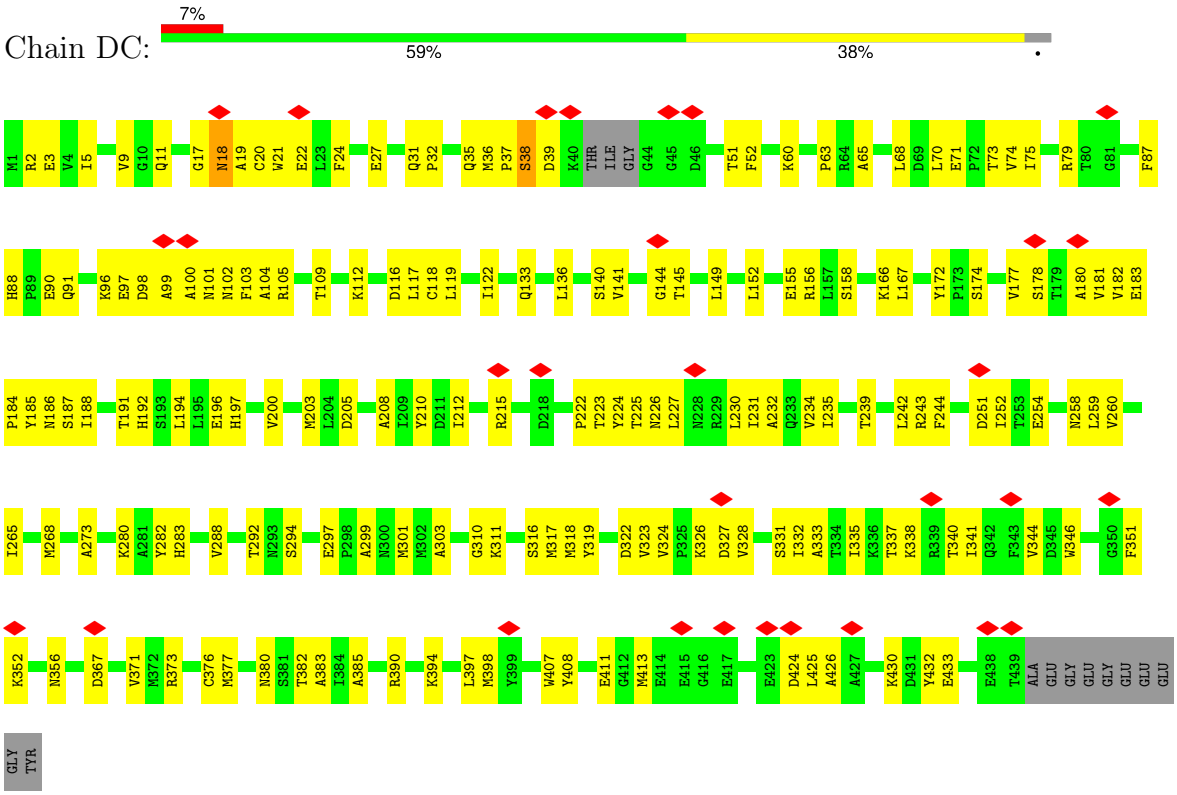
• Molecule 45: Tubulin alpha chain

Chain CE:



• Molecule 45: Tubulin alpha chain

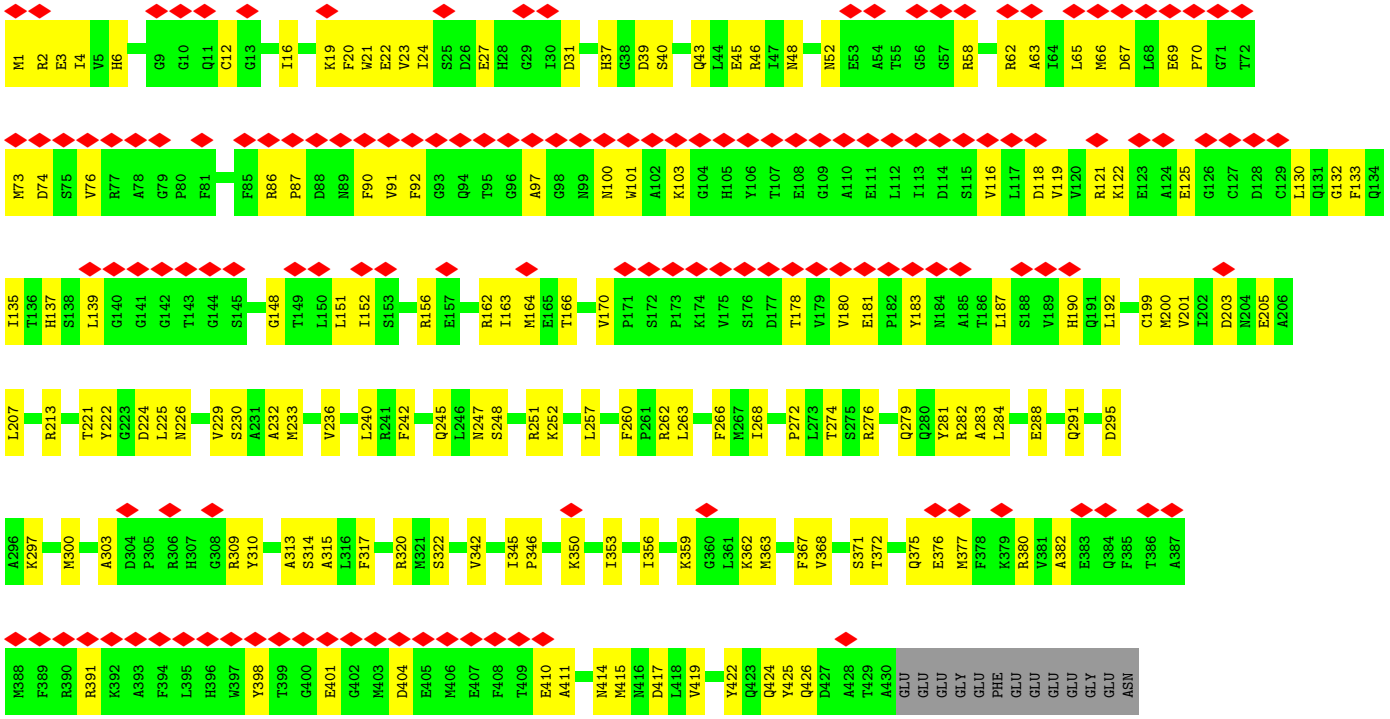
Chain DC:



• Molecule 46: Tubulin beta chain

Chain AB:

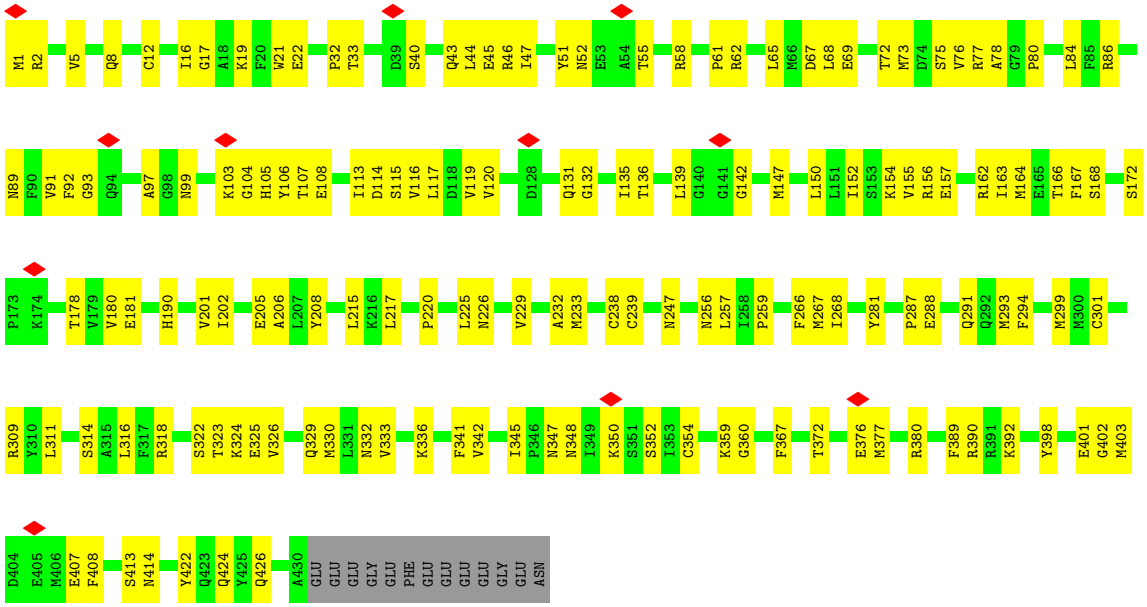




• Molecule 46: Tubulin beta chain

Chain AD:

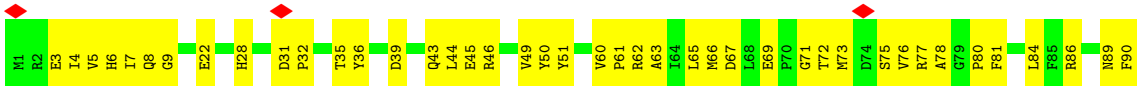


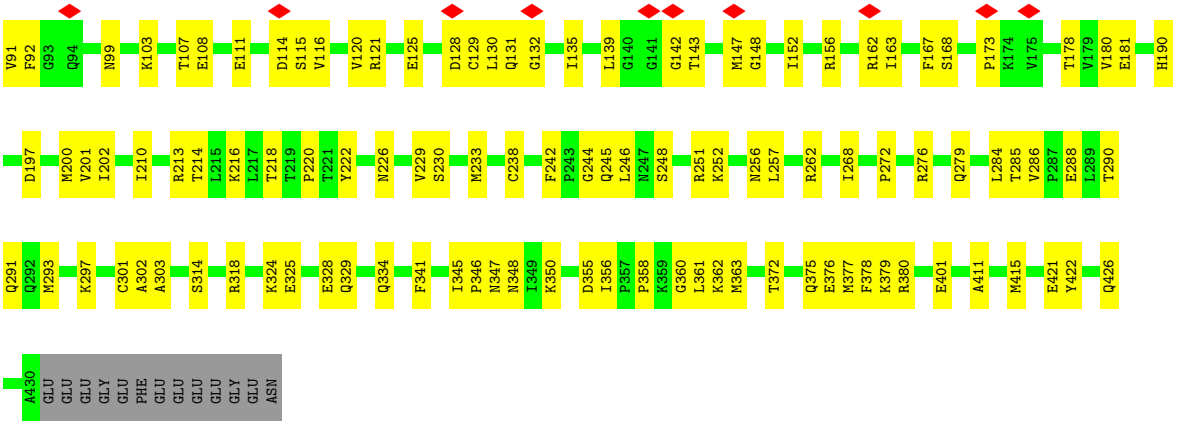


• Molecule 46: Tubulin beta chain

Chain AF:









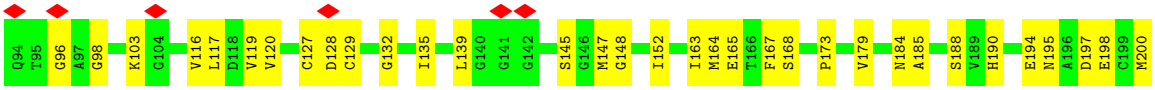


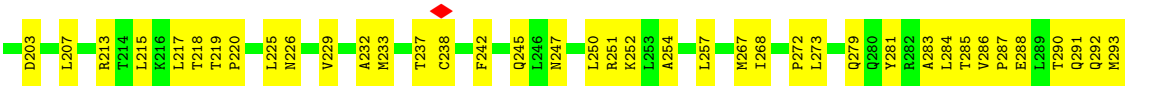


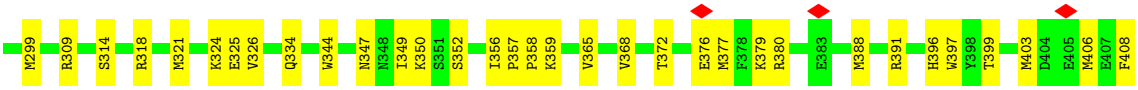
• Molecule 46: Tubulin beta chain

Chain AH:







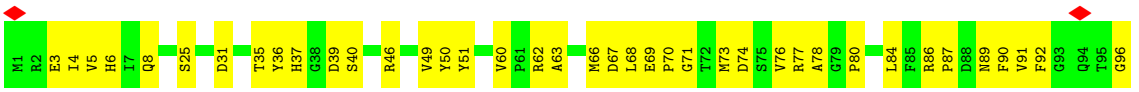


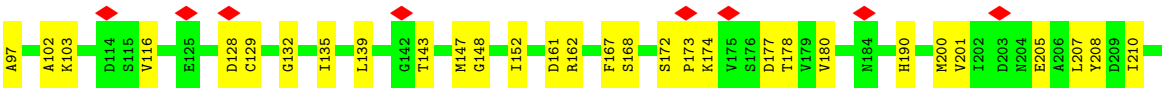


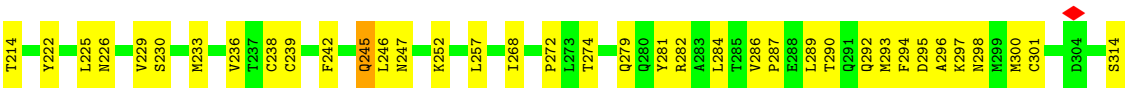
• Molecule 46: Tubulin beta chain

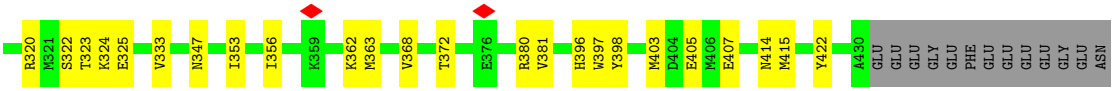
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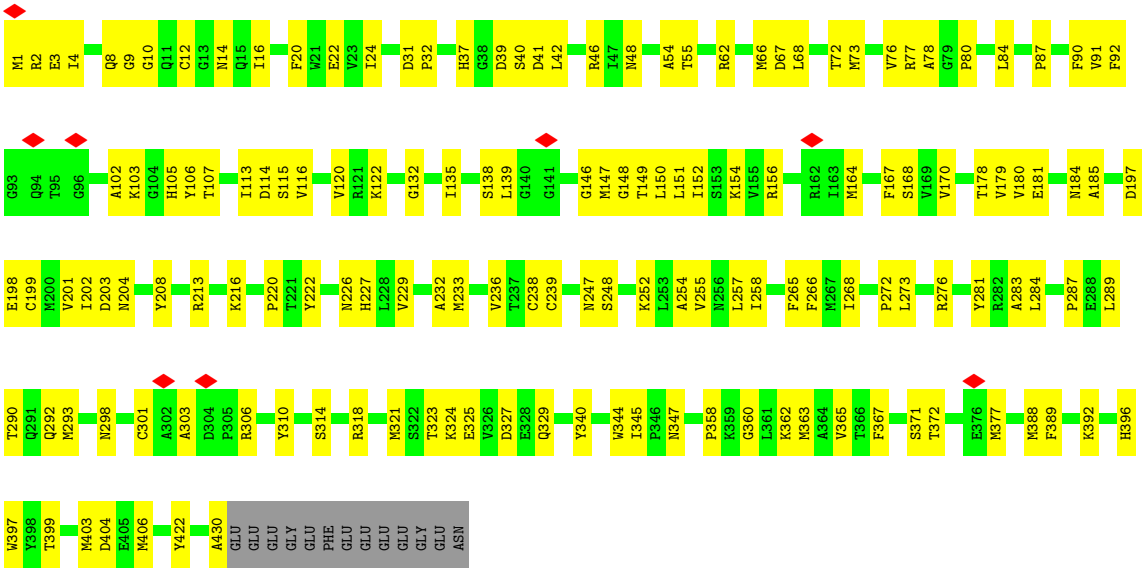




• Molecule 46: Tubulin beta chain

Chain AL:

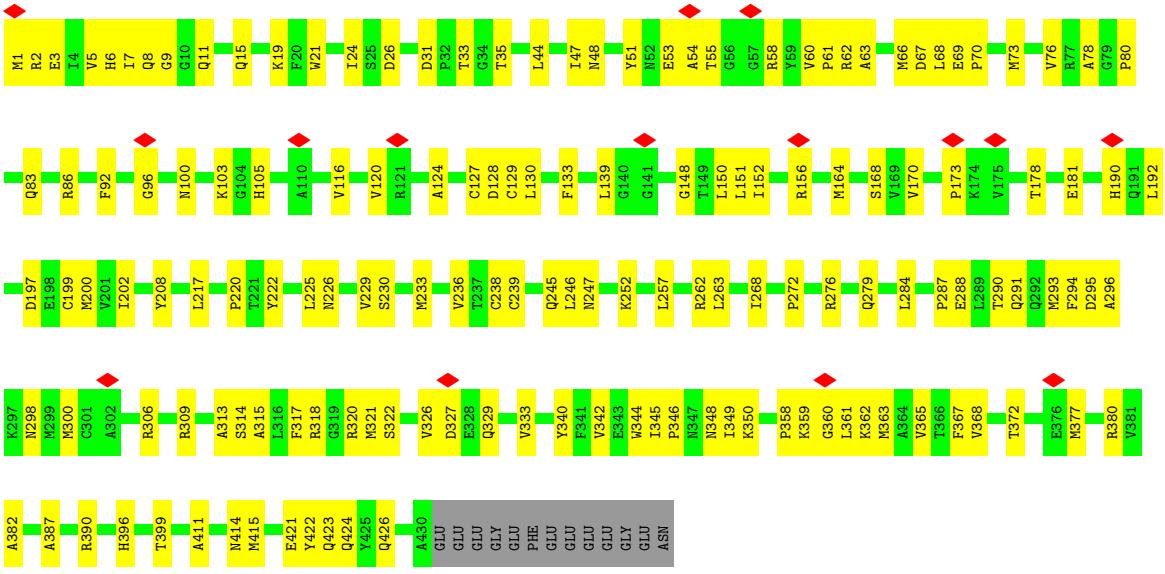




• Molecule 46: Tubulin beta chain

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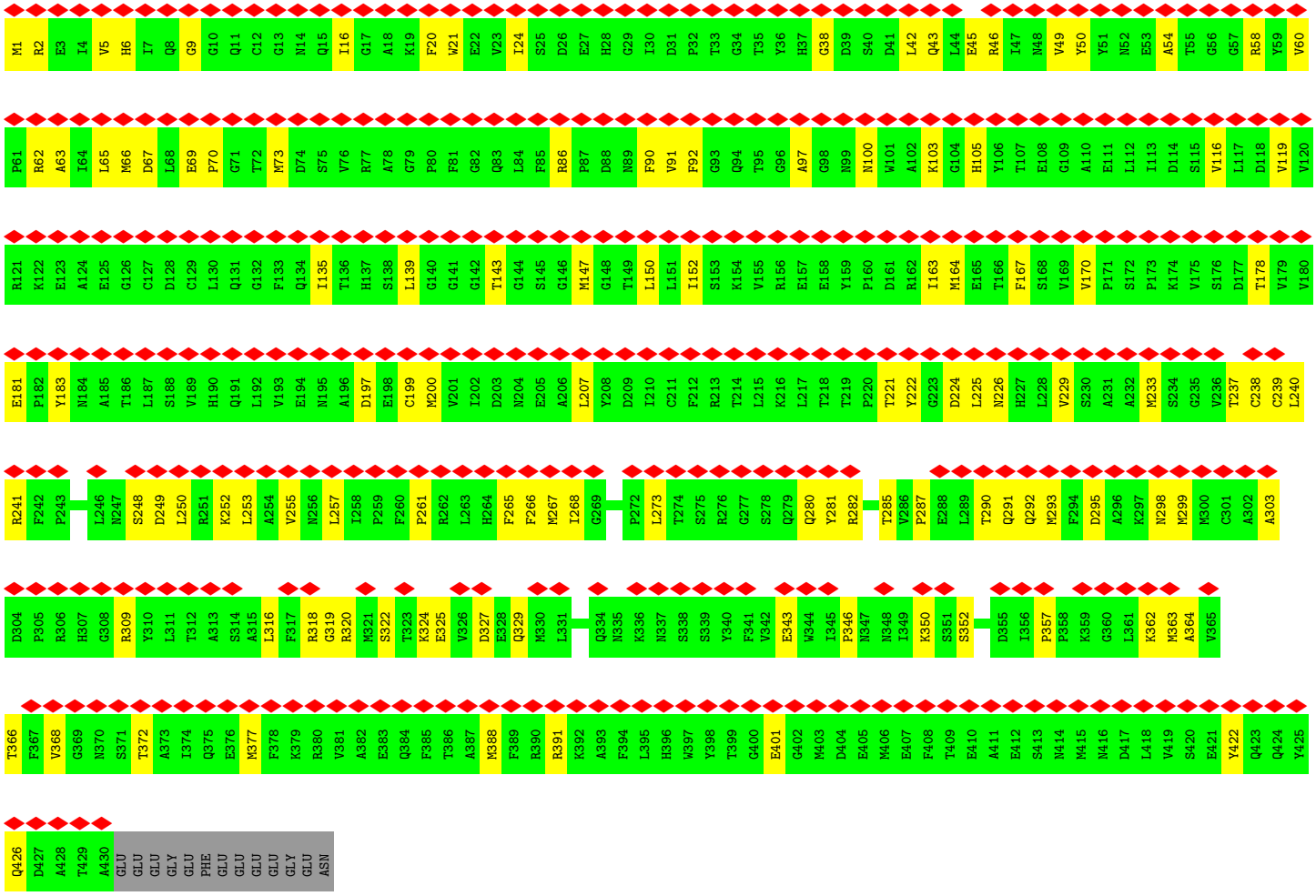




• Molecule 46: Tubulin beta chain

Chain BB:

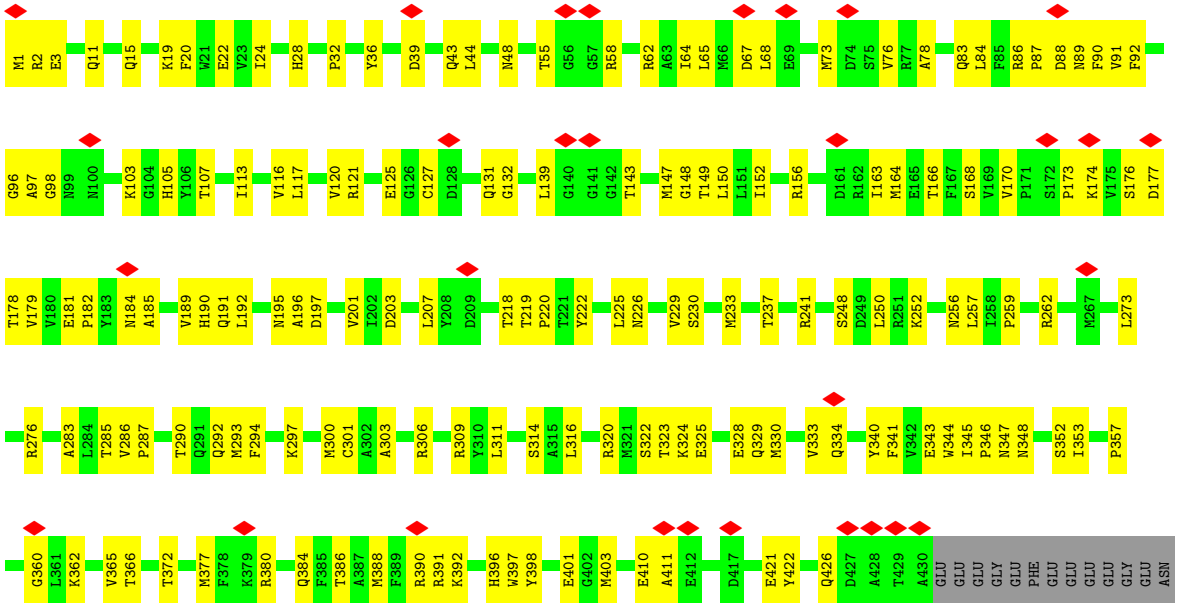




• Molecule 46: Tubulin beta chain

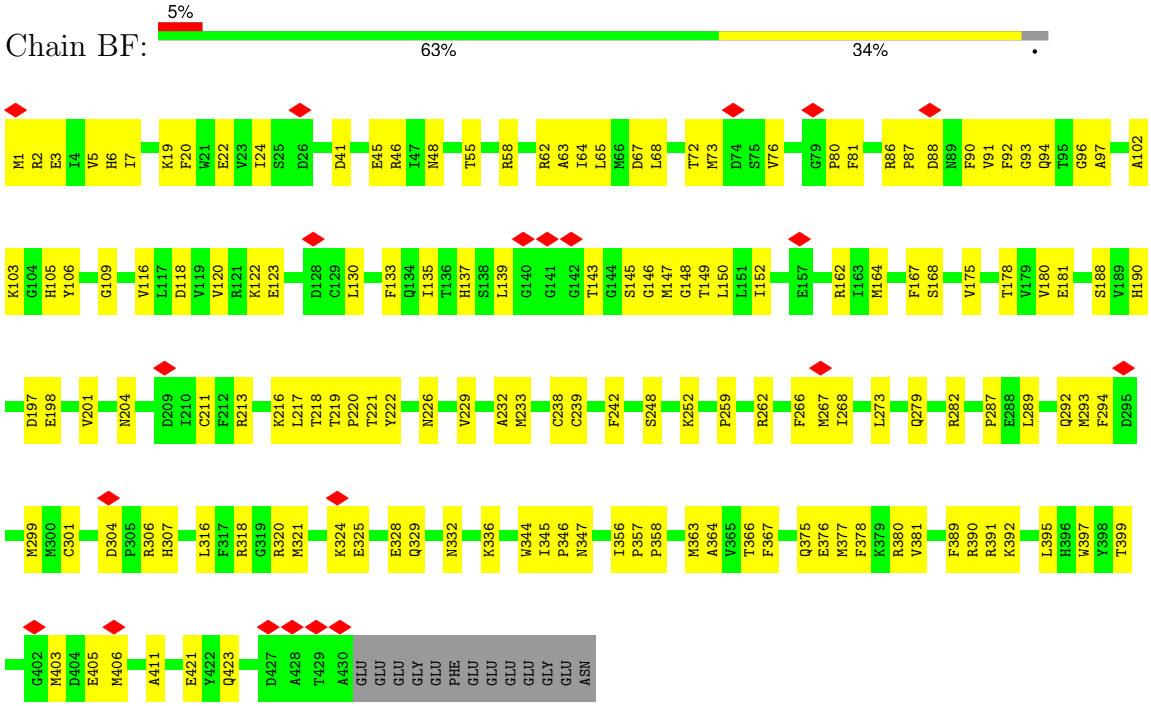
Chain BD:





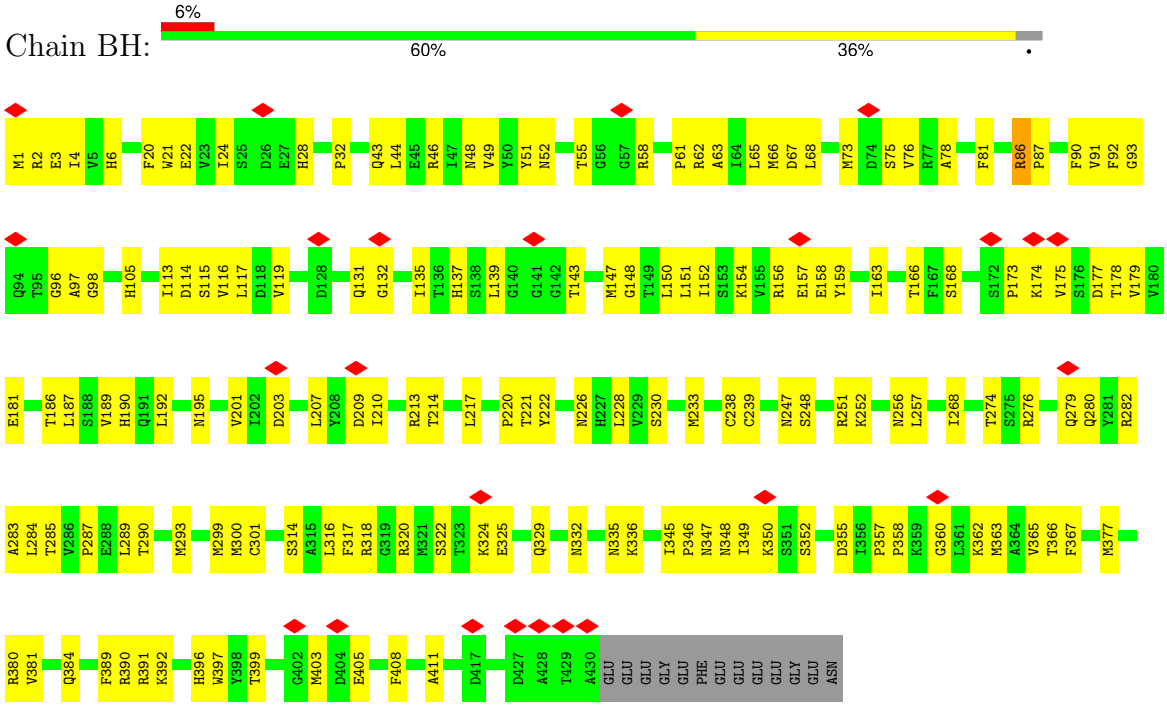
• Molecule 46: Tubulin beta chain

Chain BF:



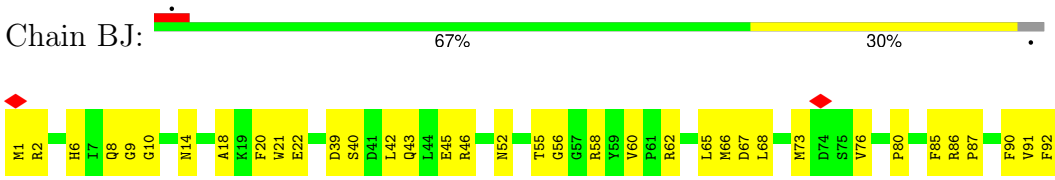
• Molecule 46: Tubulin beta chain

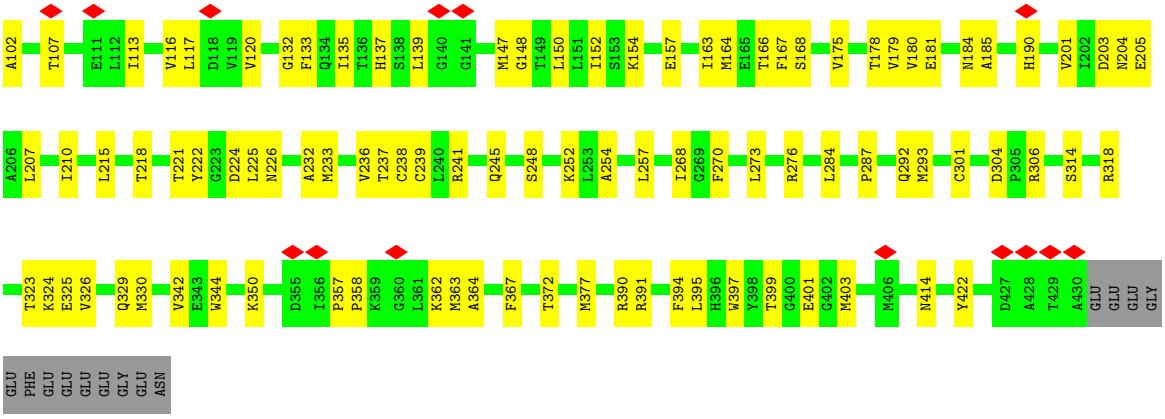
Chain BH:



• Molecule 46: Tubulin beta chain

Chain BJ:

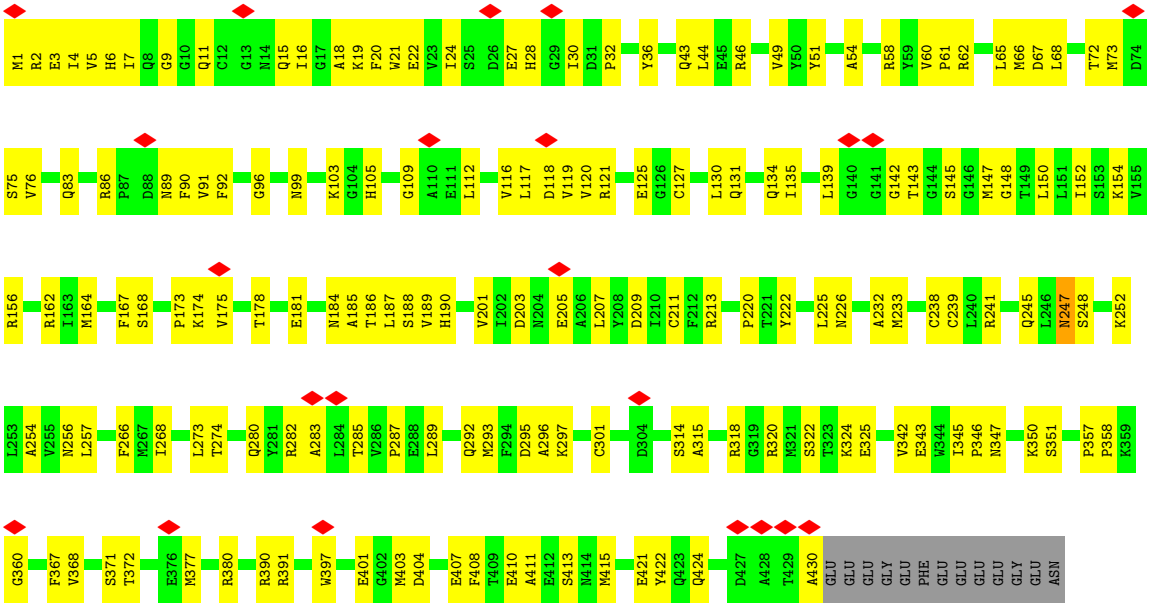




• Molecule 46: Tubulin beta chain

Chain BL:

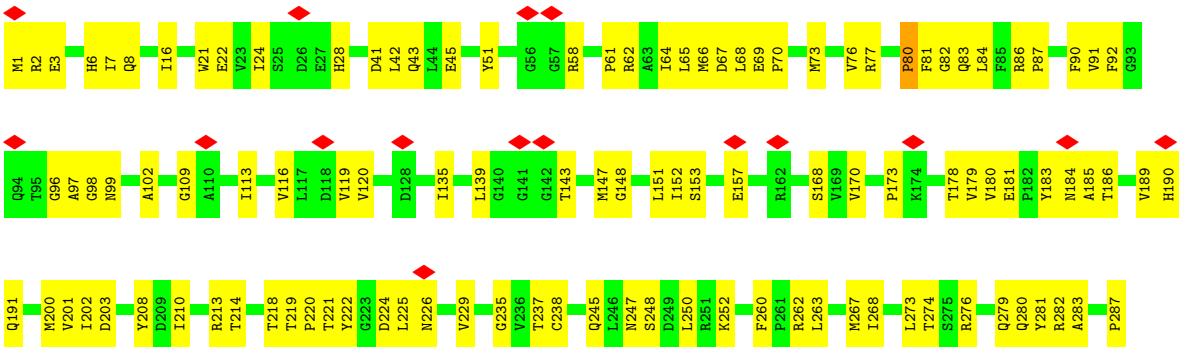


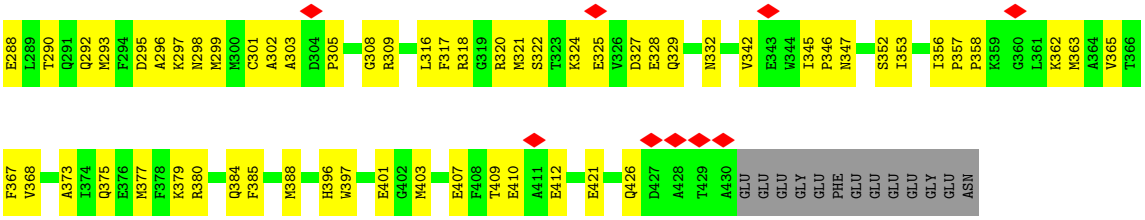


• Molecule 46: Tubulin beta chain

Chain BN:



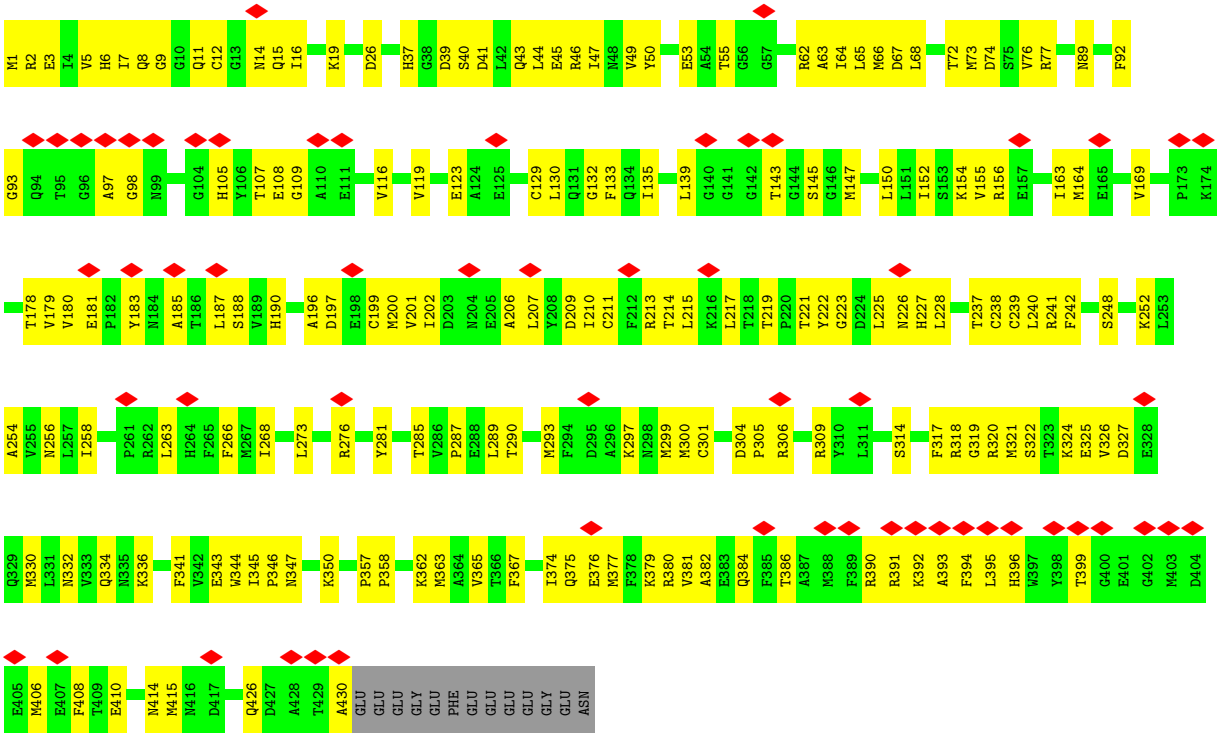




• Molecule 46: Tubulin beta chain

Chain CB:

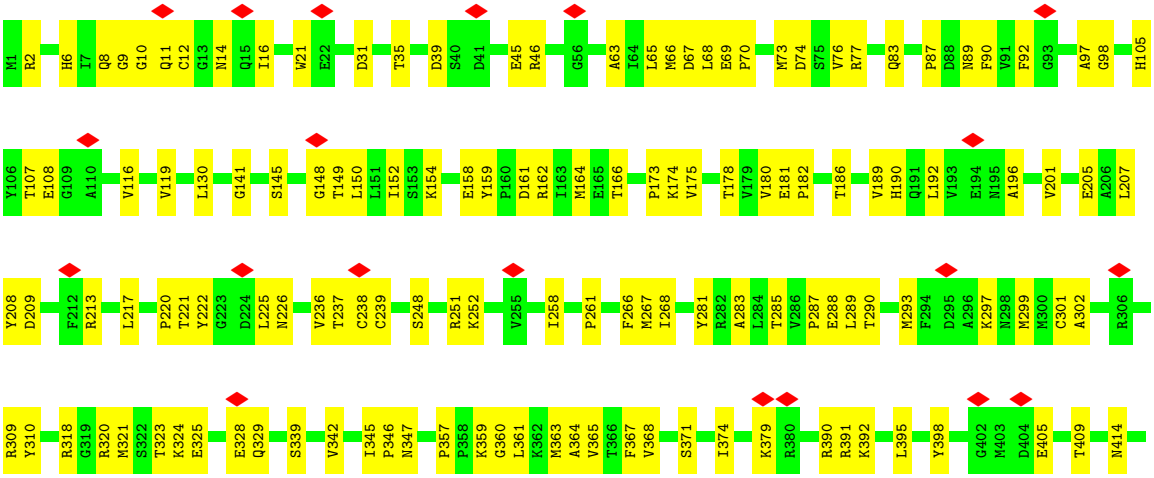


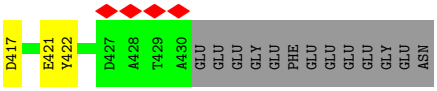


• Molecule 46: Tubulin beta chain

Chain CD:



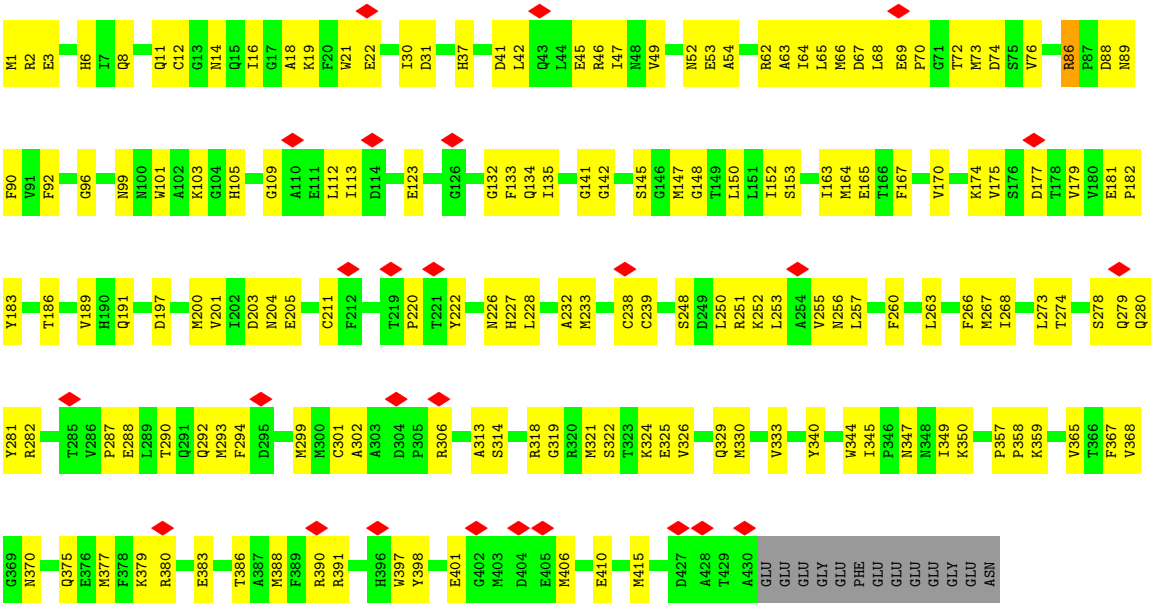




• Molecule 46: Tubulin beta chain

Chain CF:

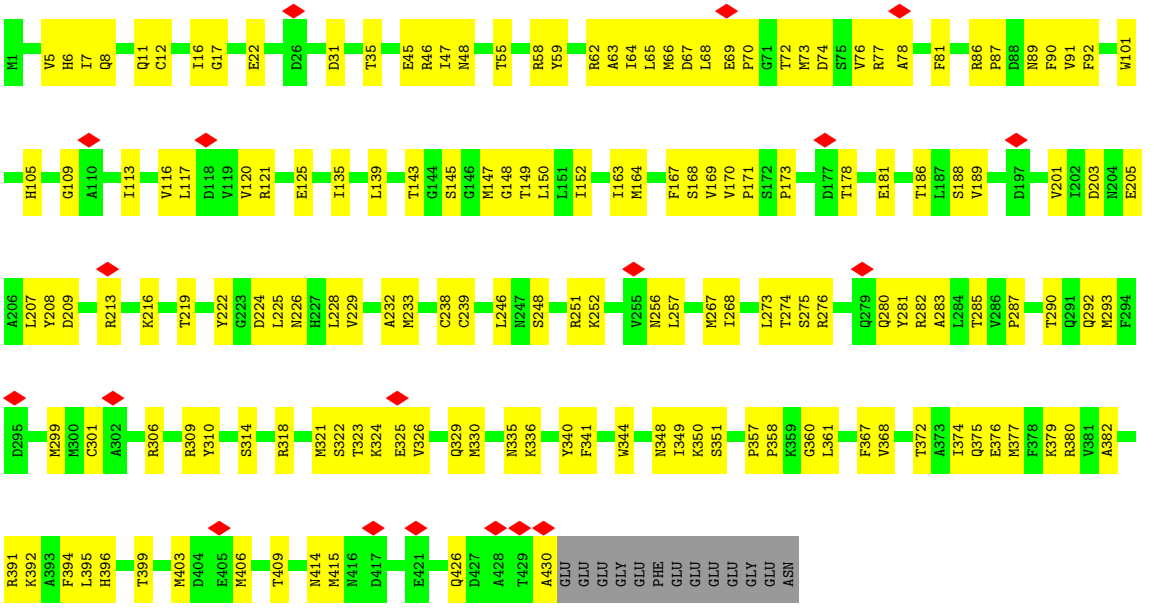




• Molecule 46: Tubulin beta chain

Chain CH:

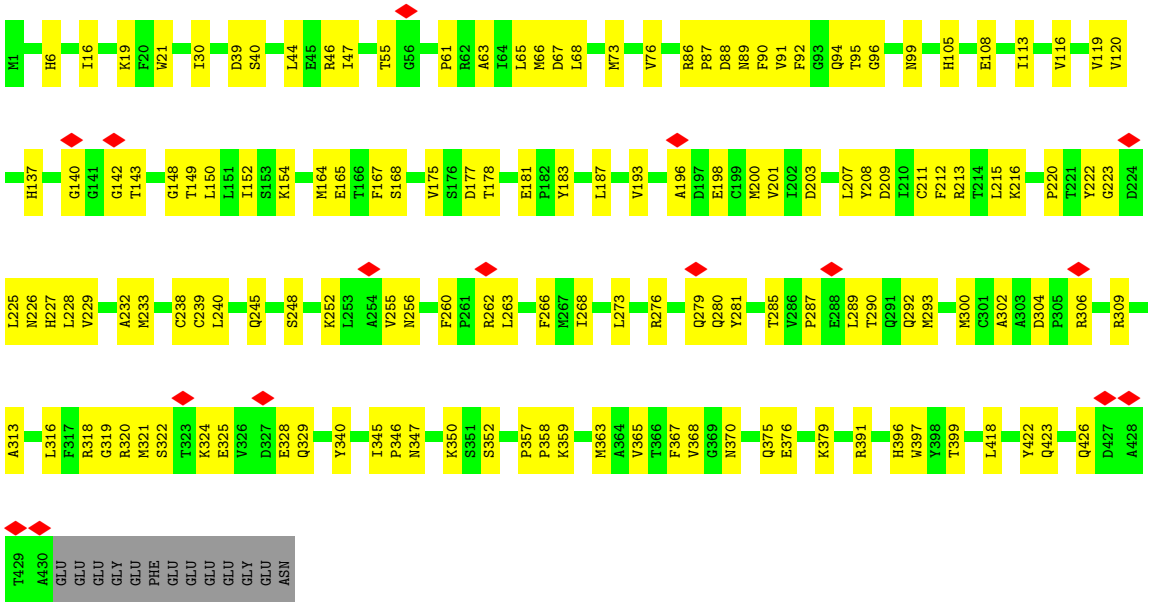




• Molecule 46: Tubulin beta chain

Chain CJ:

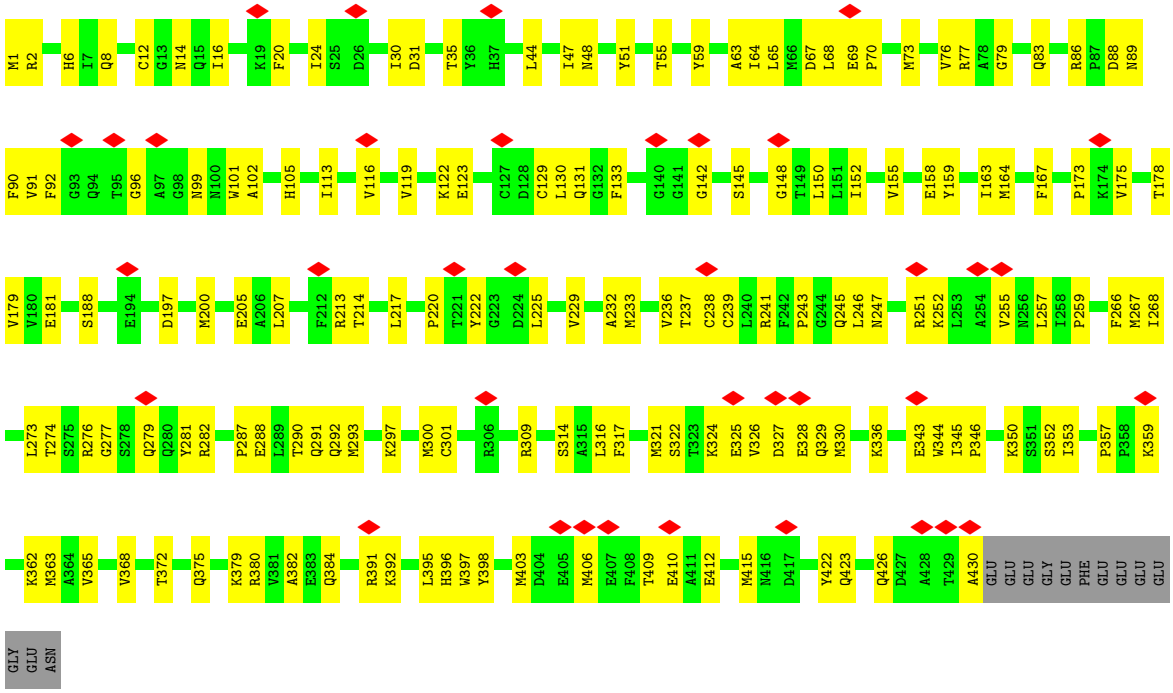




• Molecule 46: Tubulin beta chain

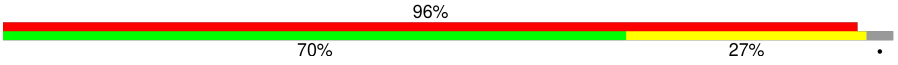
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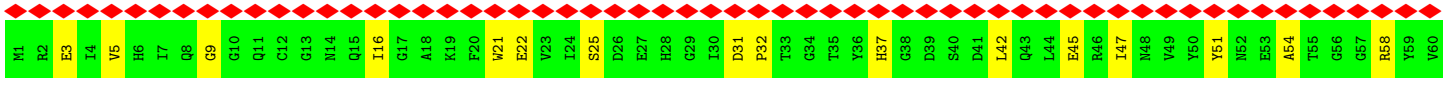


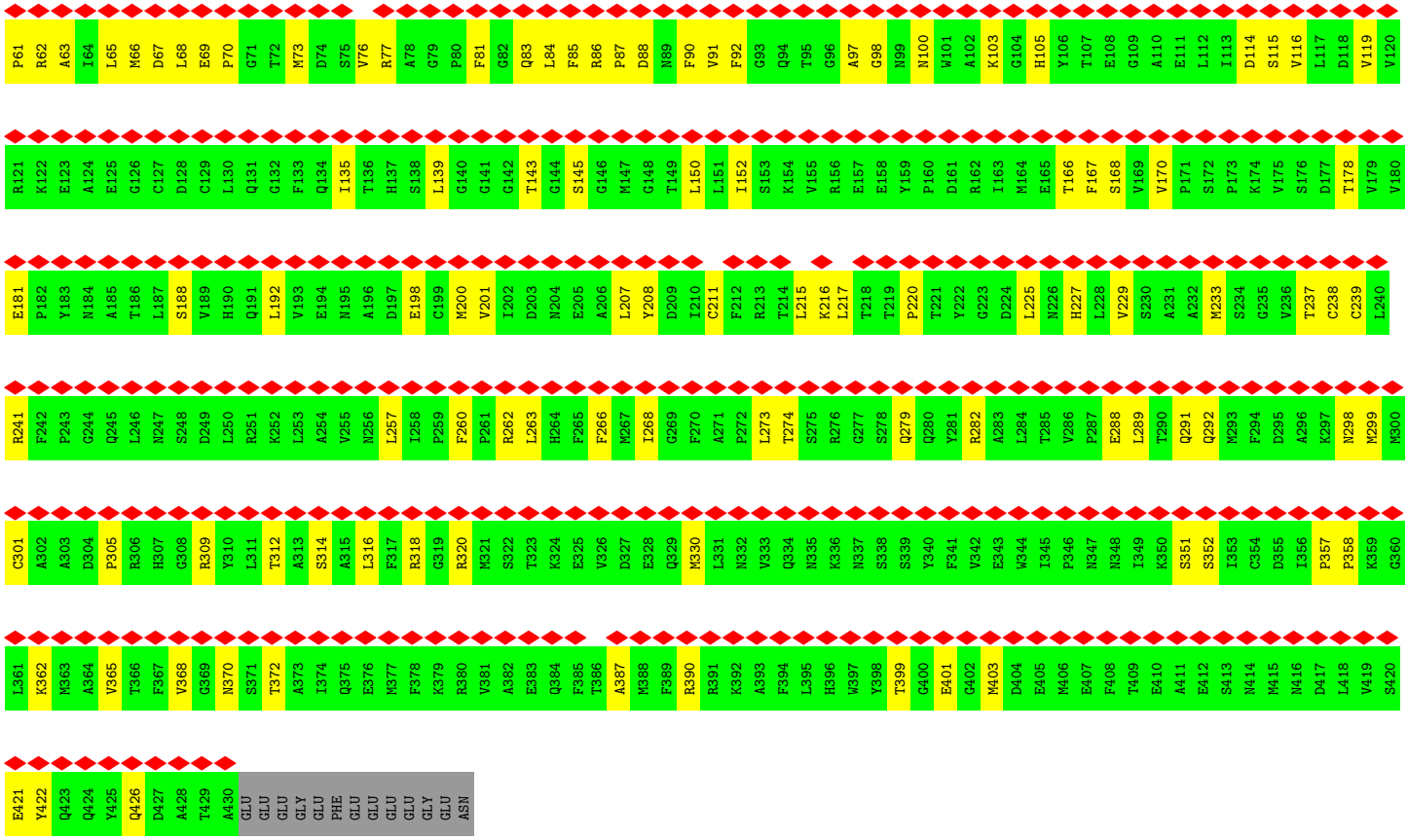


• Molecule 46: Tubulin beta chain

Chain CN:



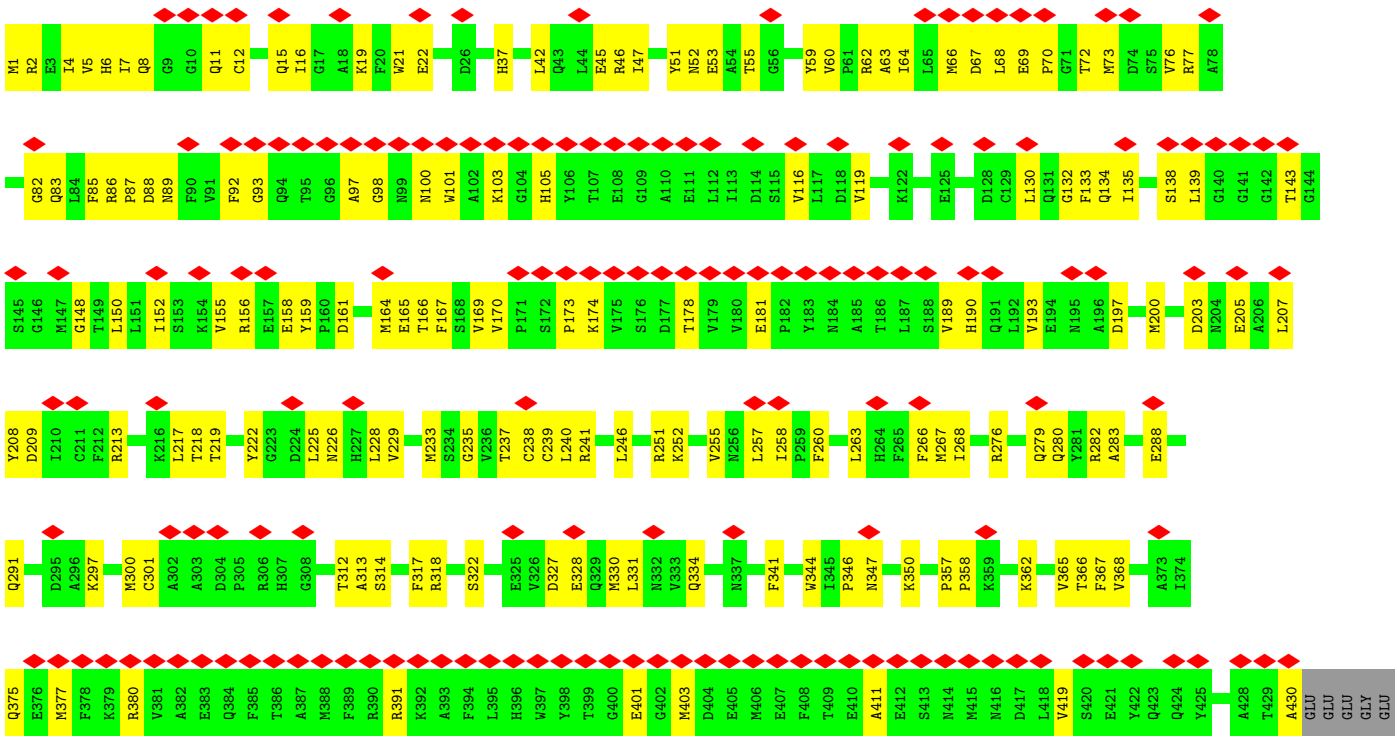




• Molecule 46: Tubulin beta chain

Chain DB:



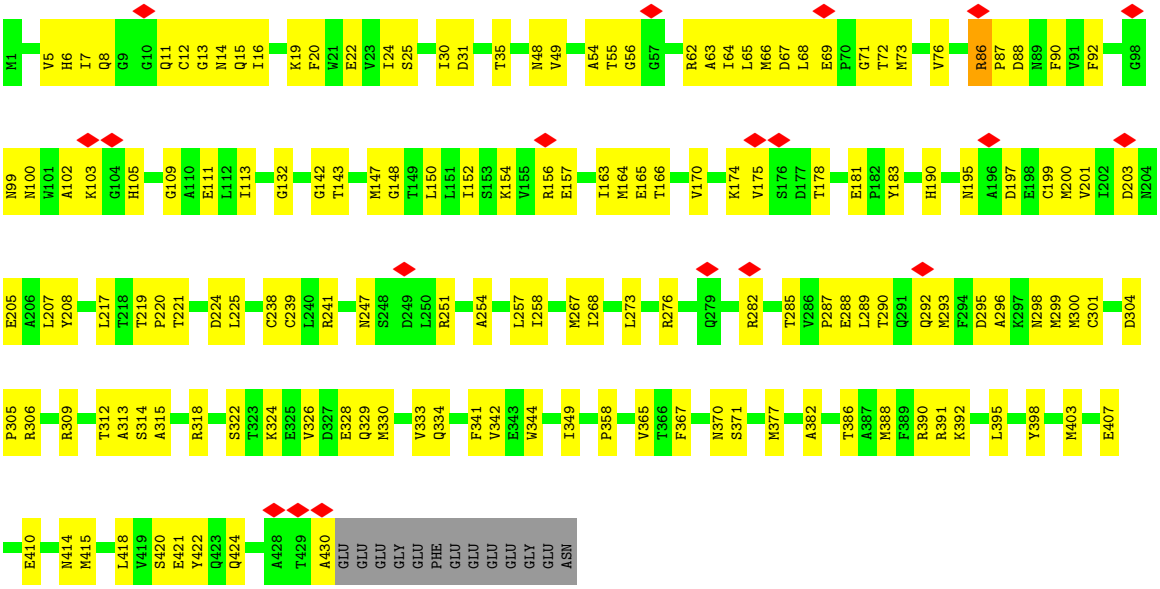




• Molecule 46: Tubulin beta chain

Chain DD:

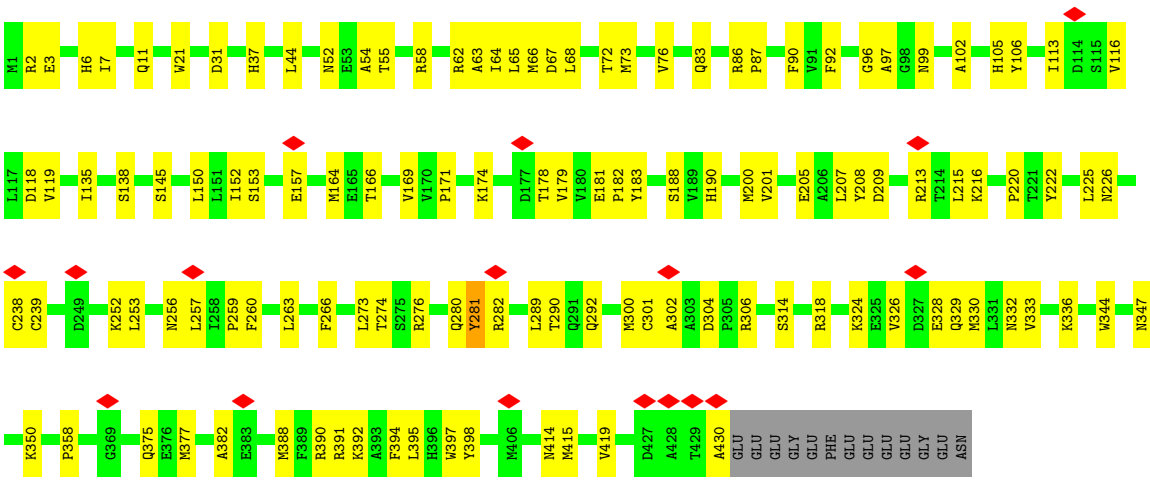




• Molecule 46: Tubulin beta chain

Chain DF:

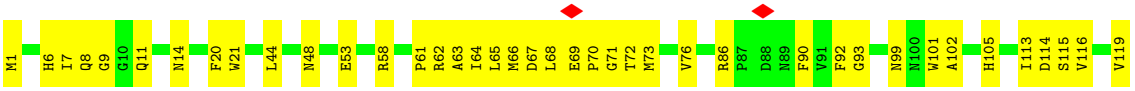


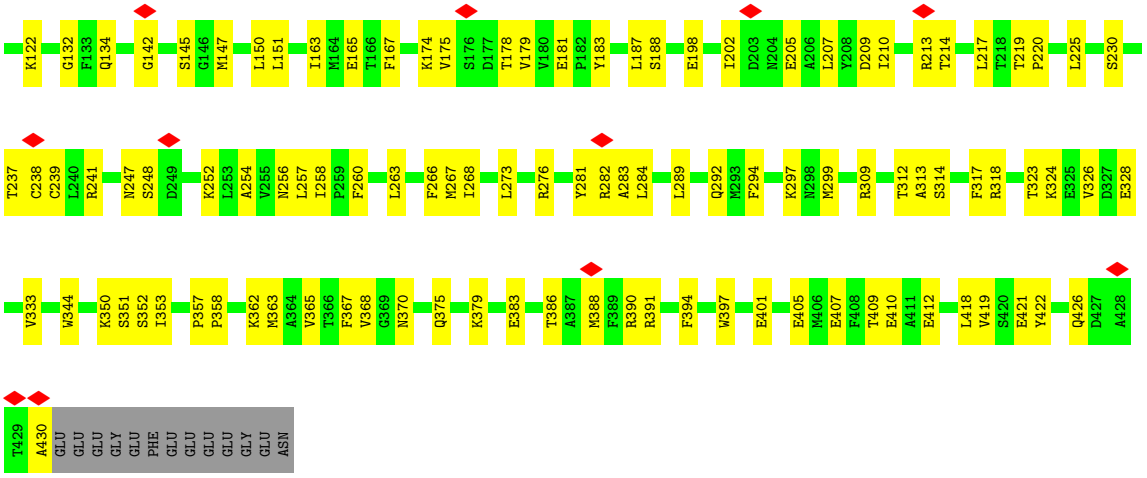


• Molecule 46: Tubulin beta chain

Chain DH:



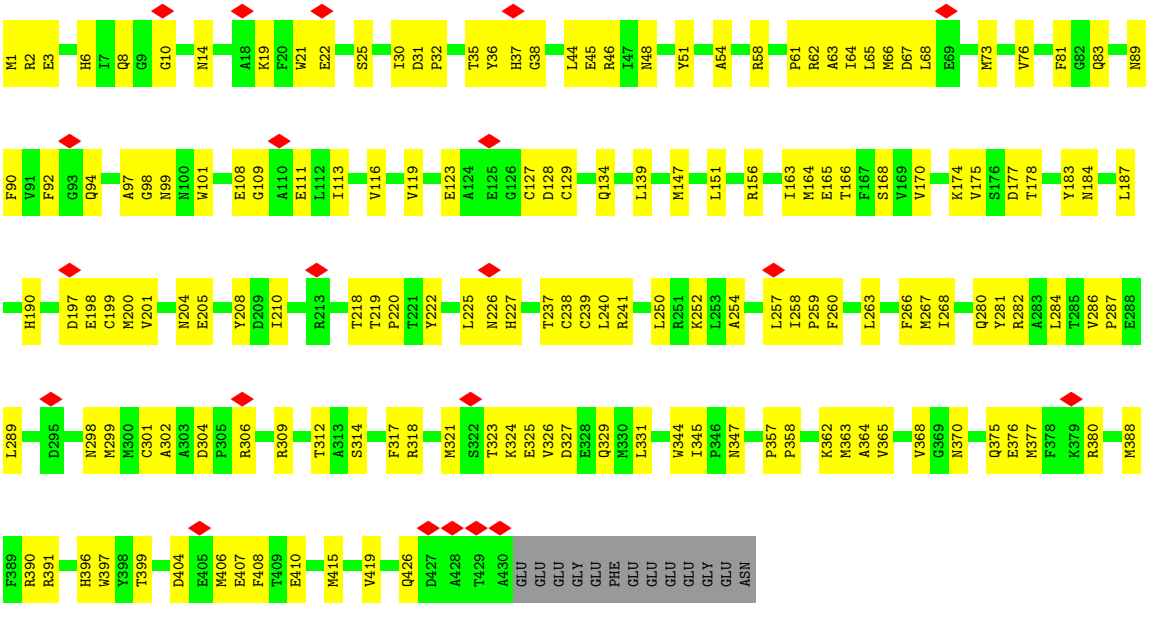




• Molecule 46: Tubulin beta chain

Chain DJ:

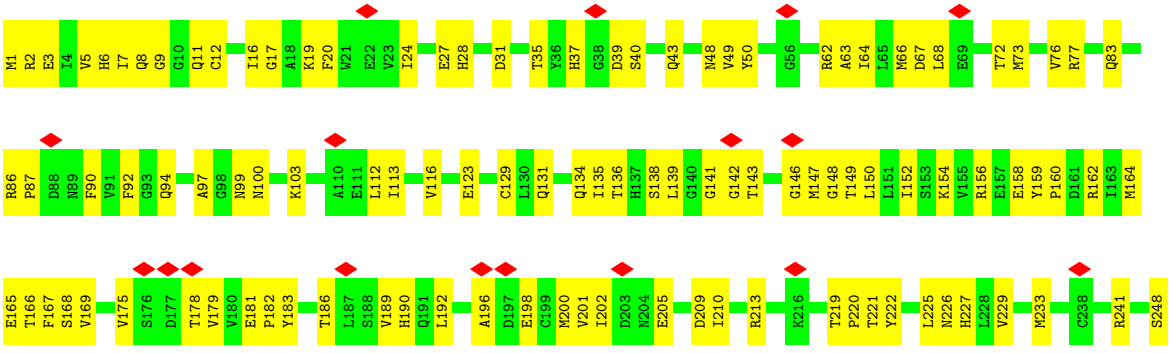


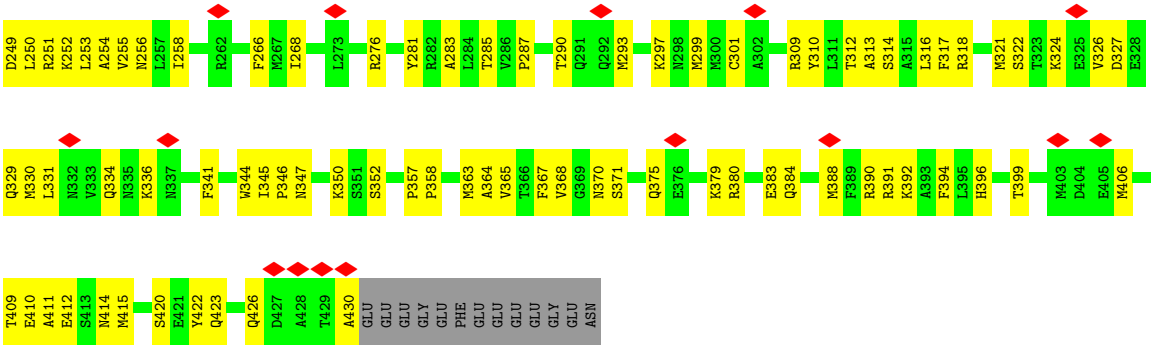


• Molecule 46: Tubulin beta chain

Chain DL:

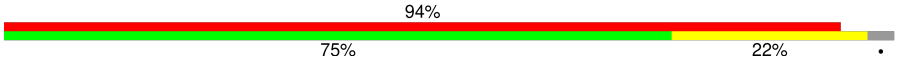


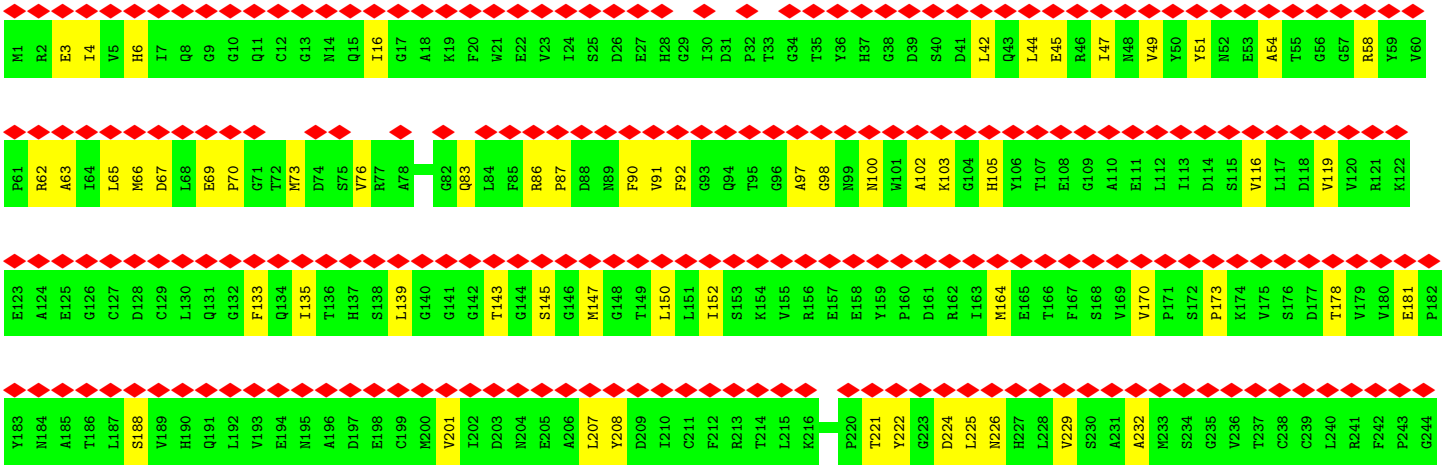




• Molecule 46: Tubulin beta chain

Chain DN:

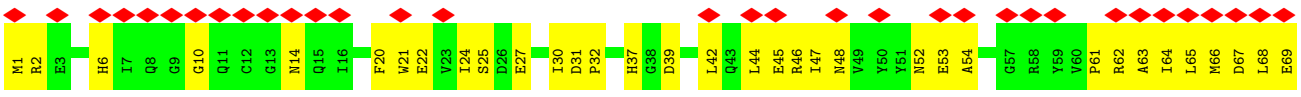


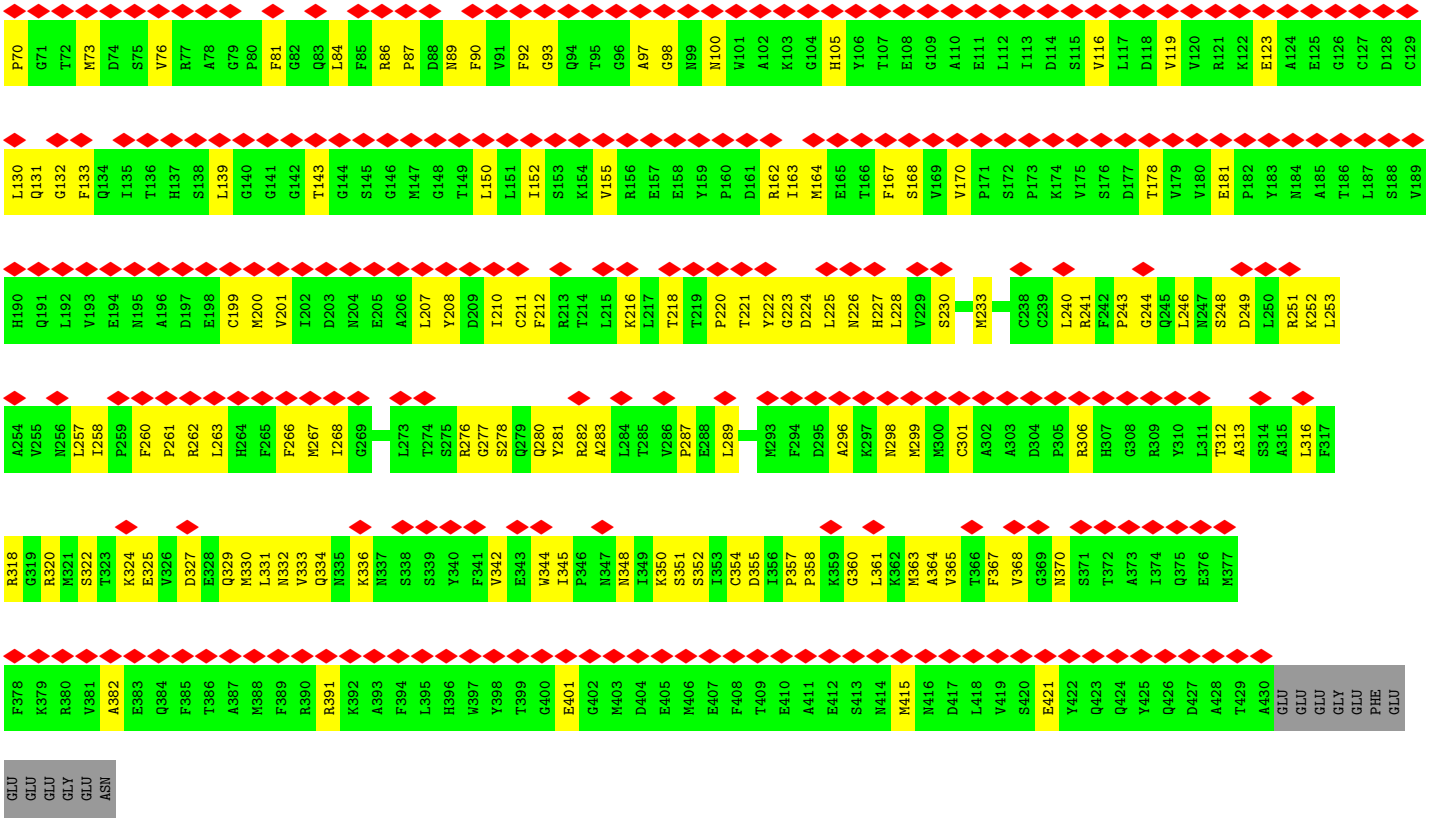


• Molecule 46: Tubulin beta chain

Chain EB:



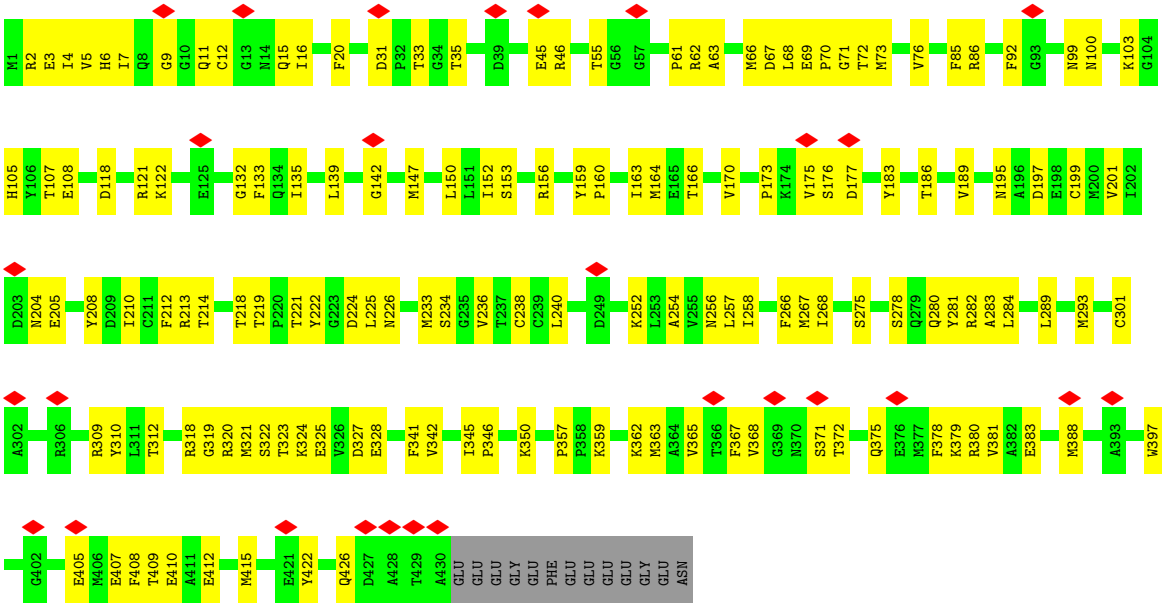




• Molecule 46: Tubulin beta chain

Chain ED:

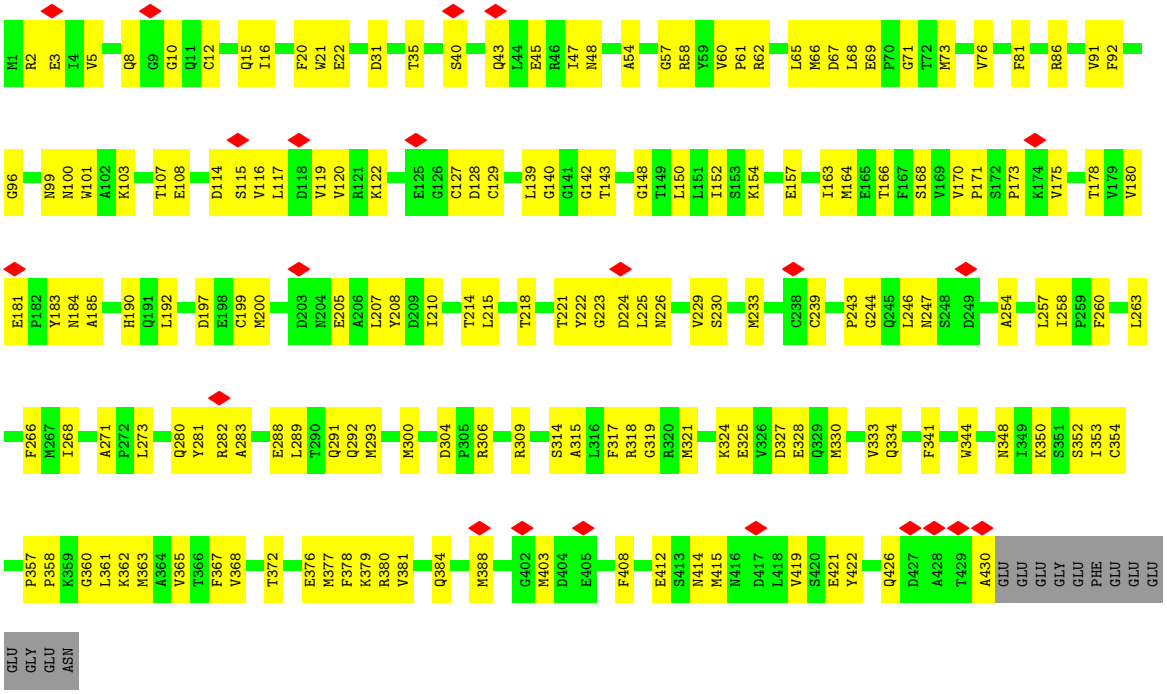




• Molecule 46: Tubulin beta chain

Chain EF:

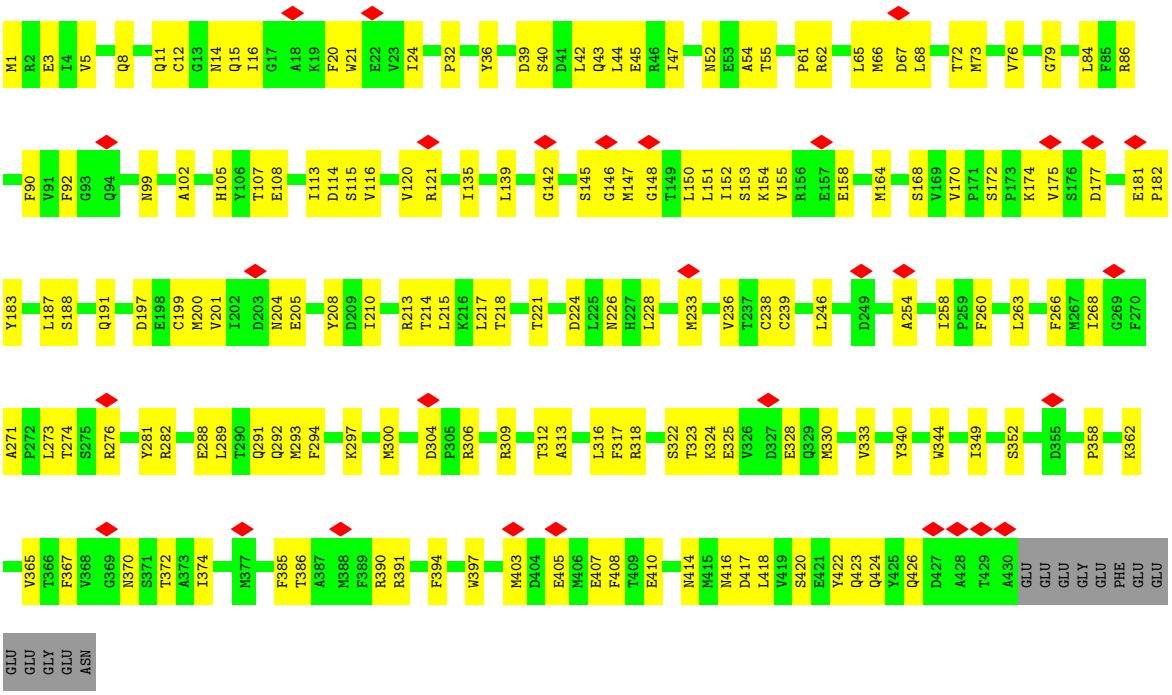




• Molecule 46: Tubulin beta chain

Chain EH:

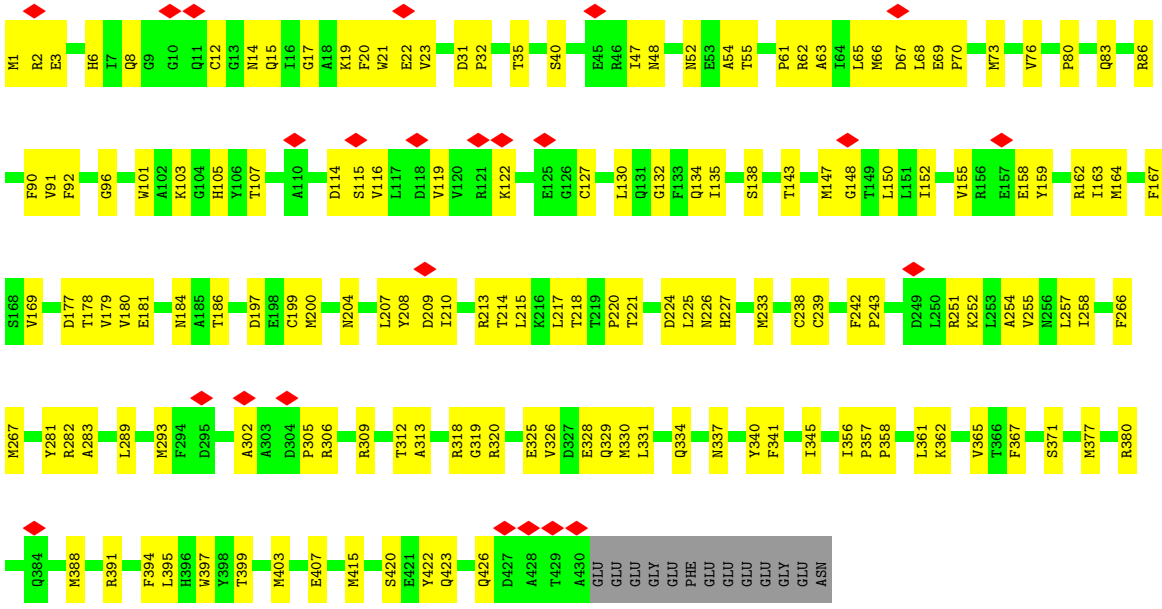




• Molecule 46: Tubulin beta chain

Chain EJ:

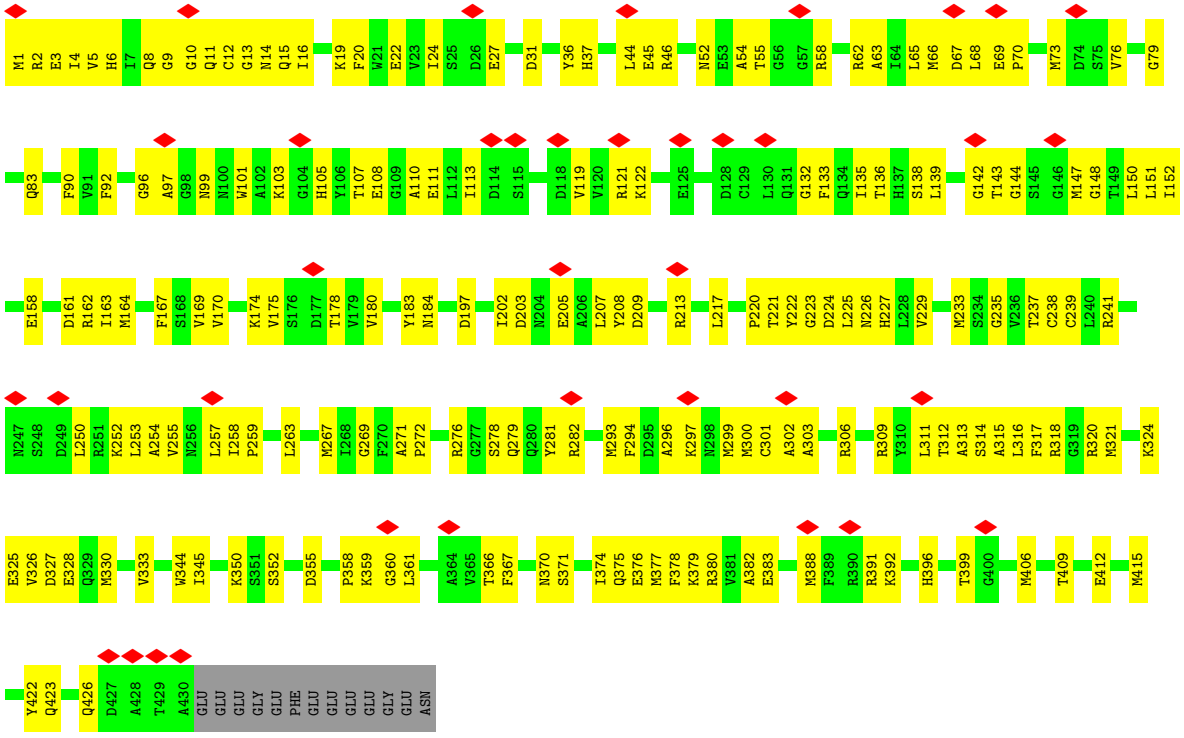




• Molecule 46: Tubulin beta chain

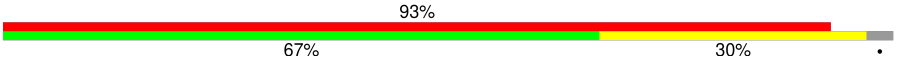
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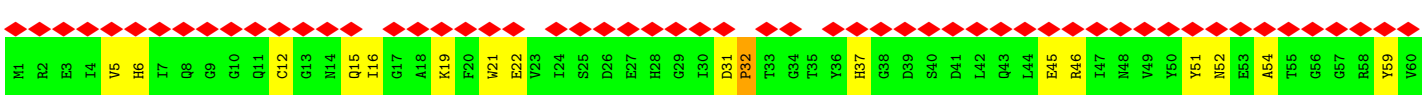


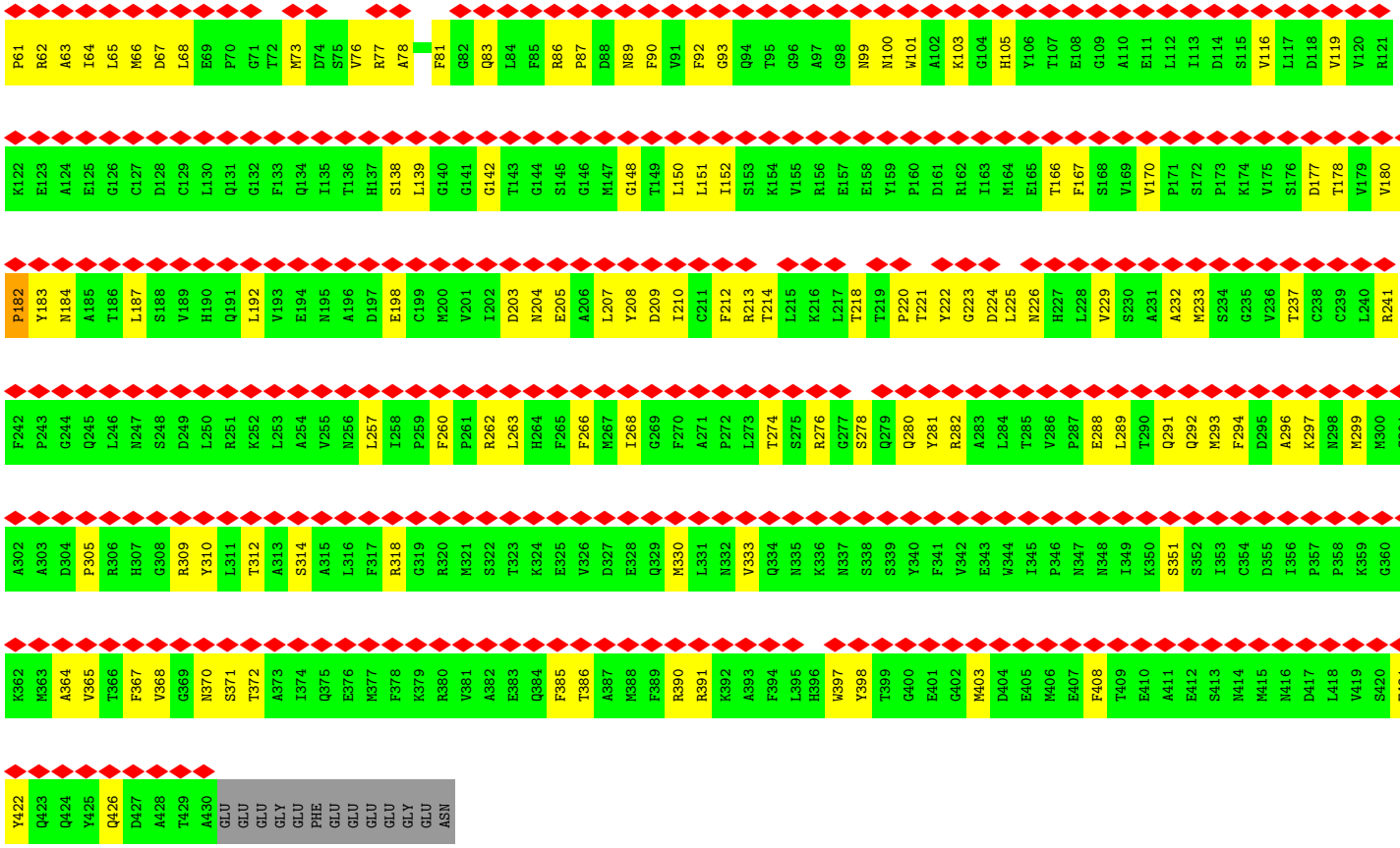


• Molecule 46: Tubulin beta chain

Chain EN:



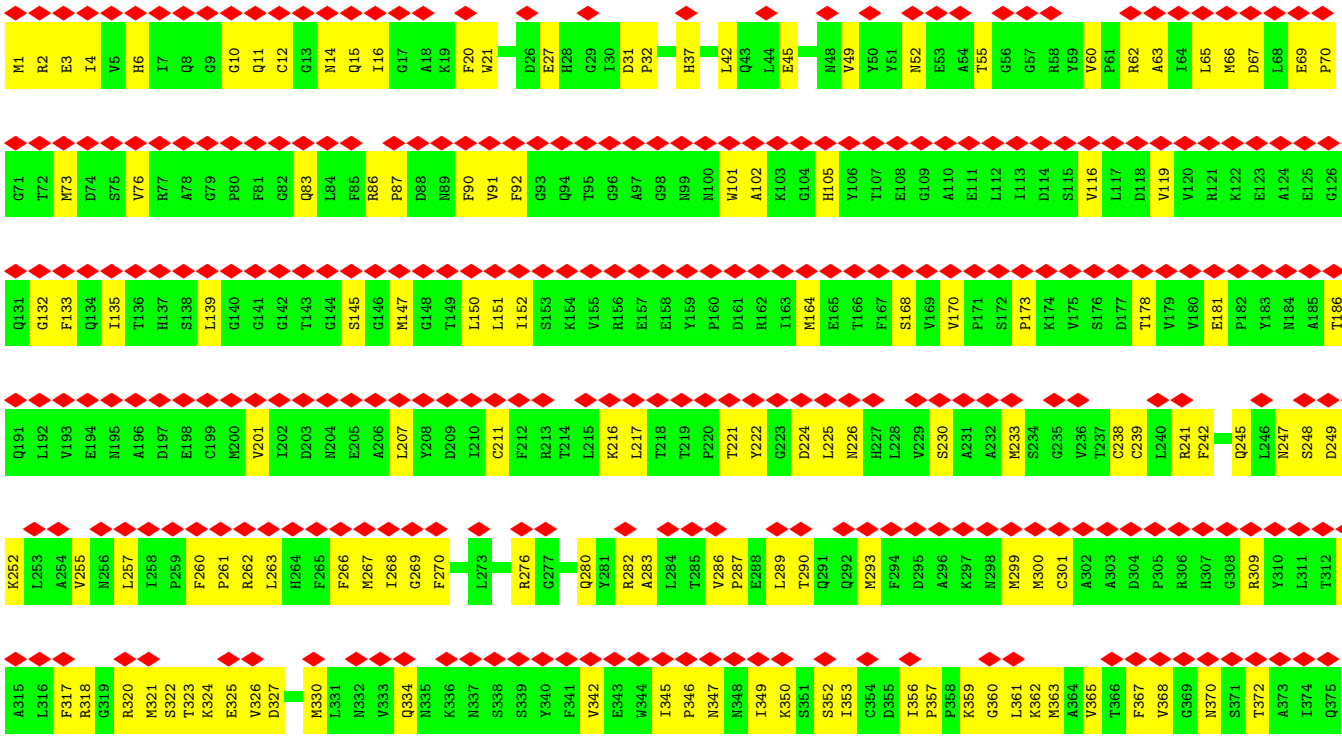


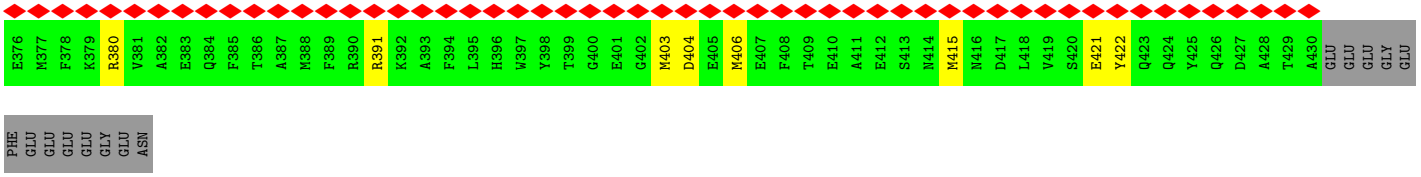


• Molecule 46: Tubulin beta chain

Chain FB:

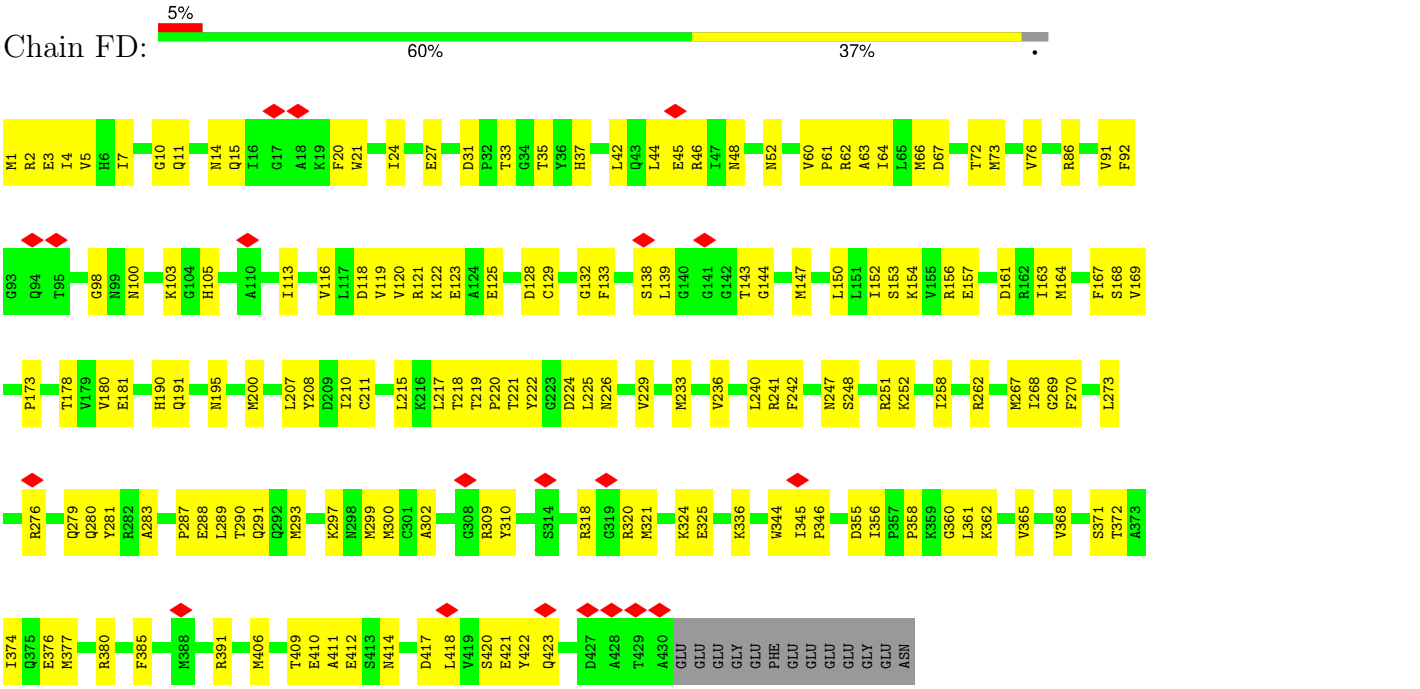






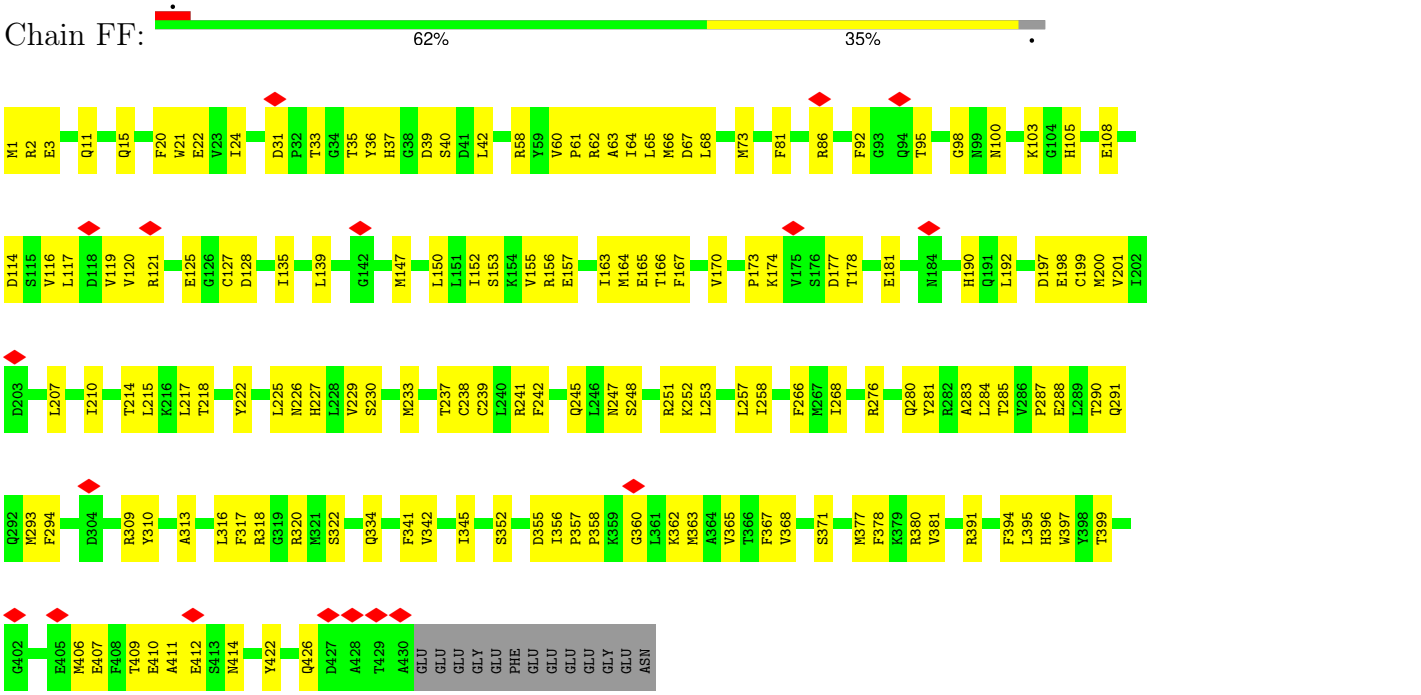
• Molecule 46: Tubulin beta chain

Chain FD:



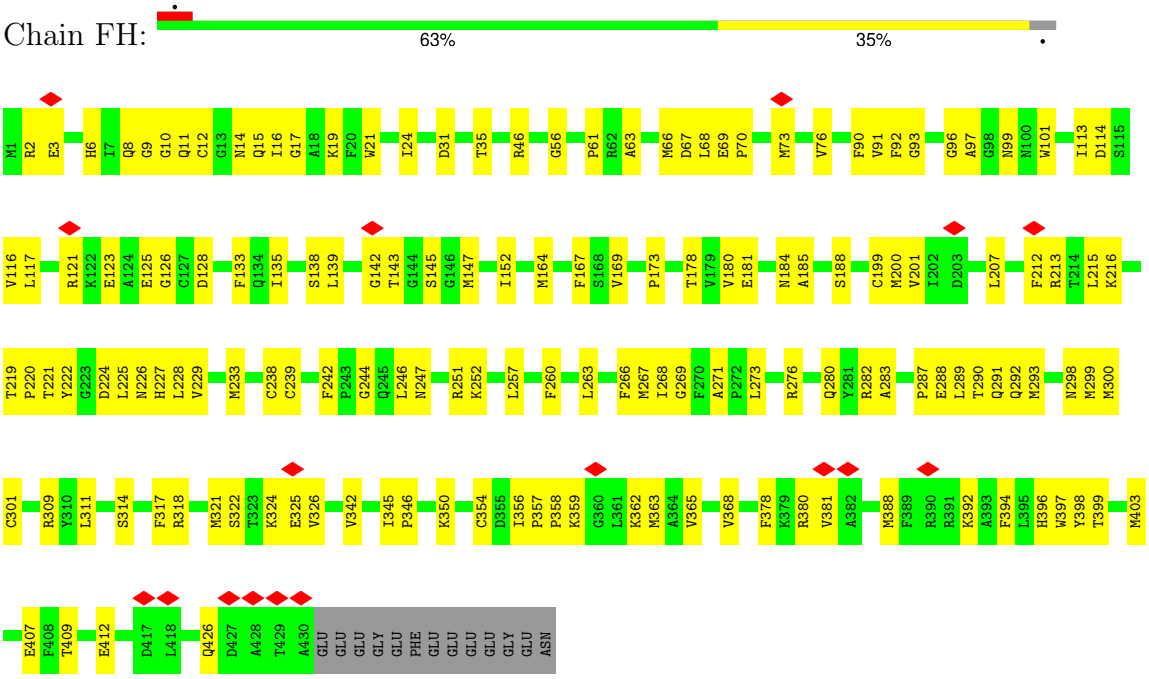
• Molecule 46: Tubulin beta chain

Chain FF:



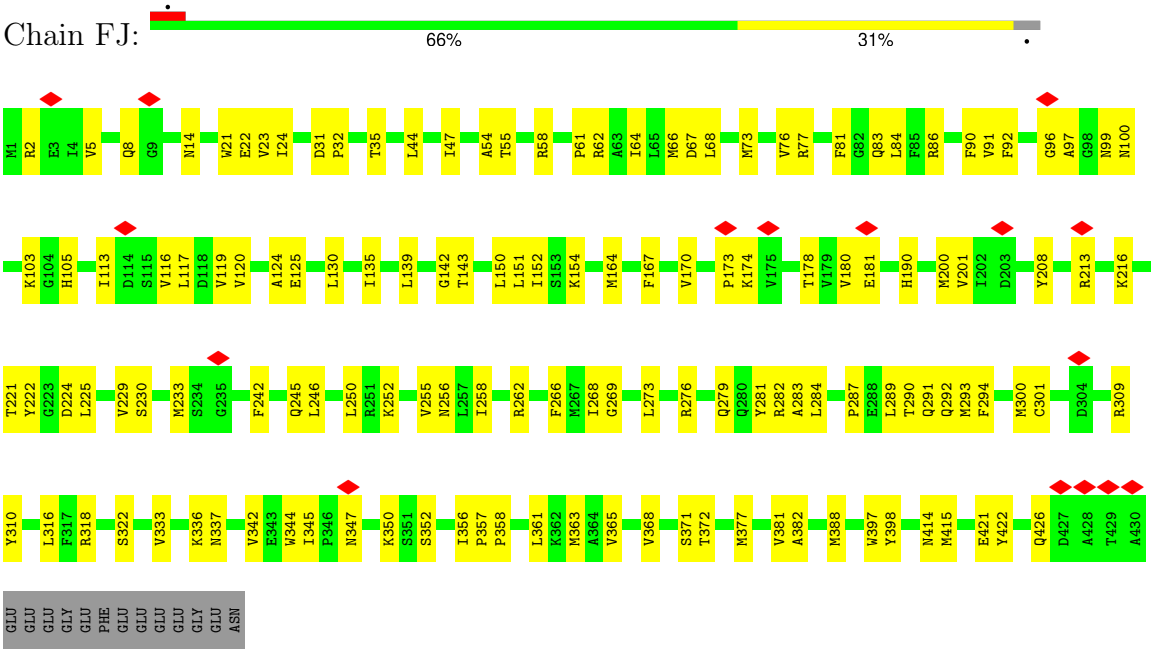
• Molecule 46: Tubulin beta chain

Chain FH:



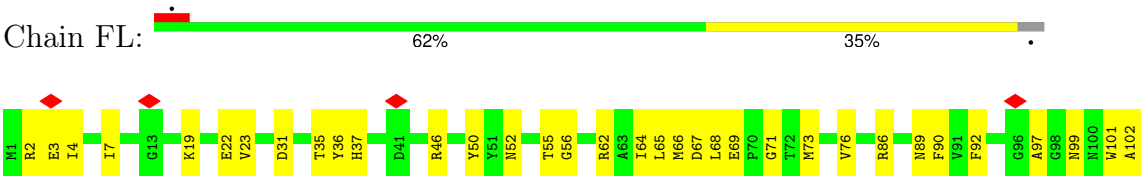
• Molecule 46: Tubulin beta chain

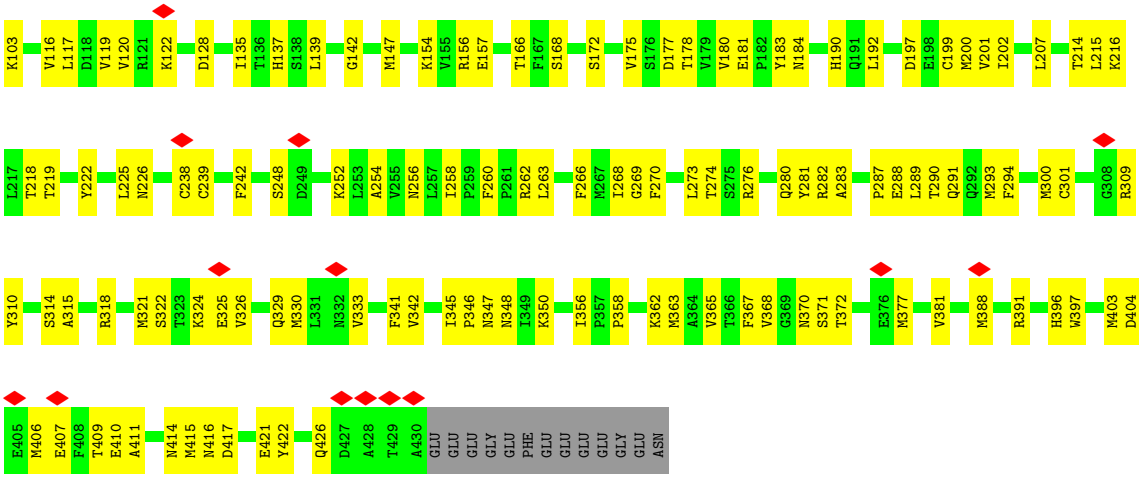
Chain FJ:



• Molecule 46: Tubulin beta chain

Chain FL:

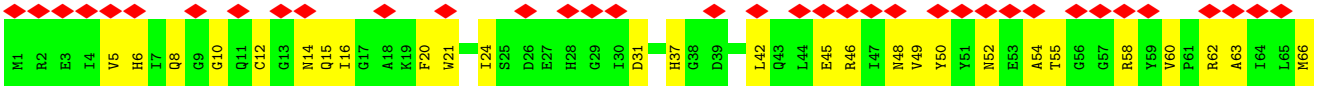


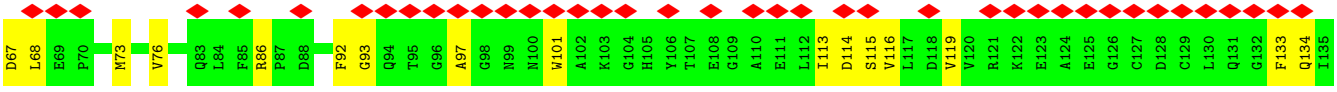


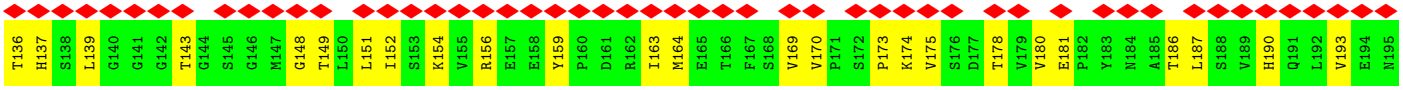
• Molecule 46: Tubulin beta chain

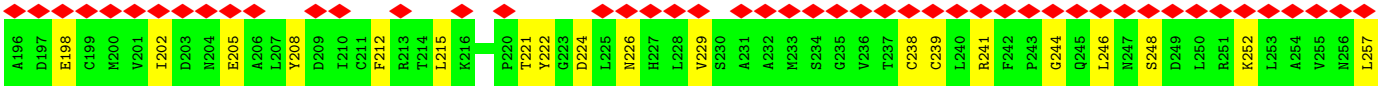
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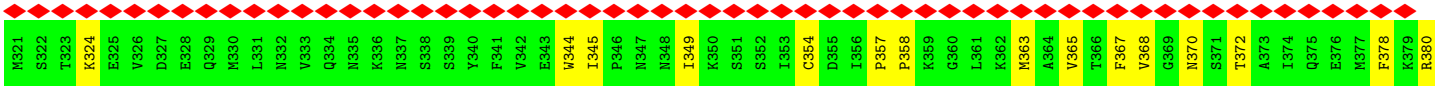


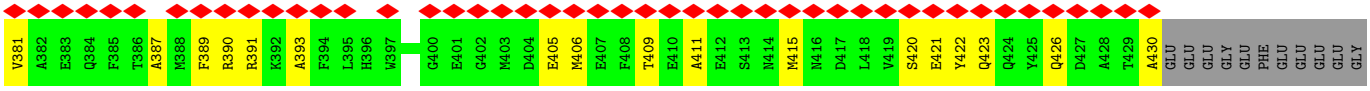










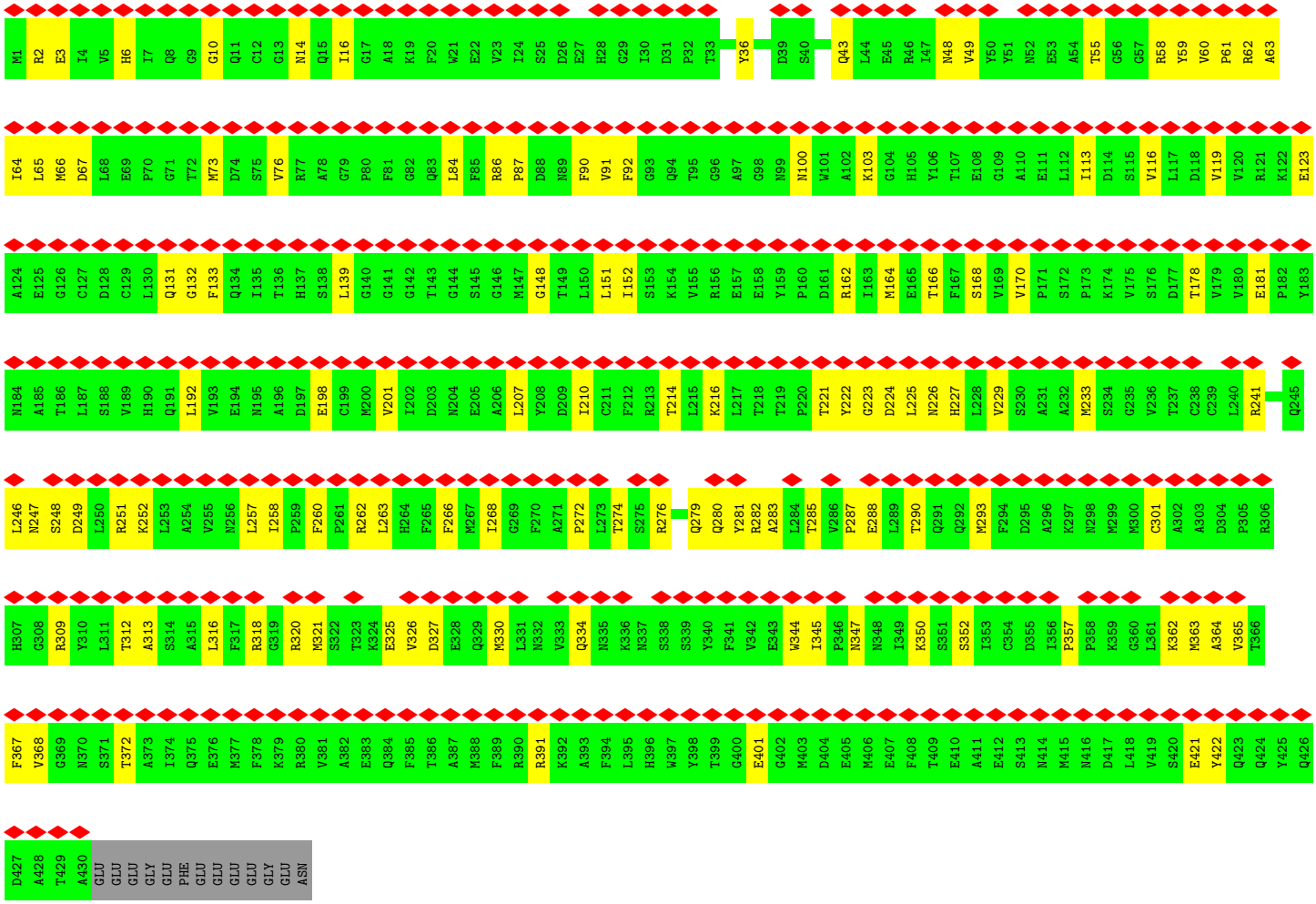




• Molecule 46: Tubulin beta chain

Chain GB:

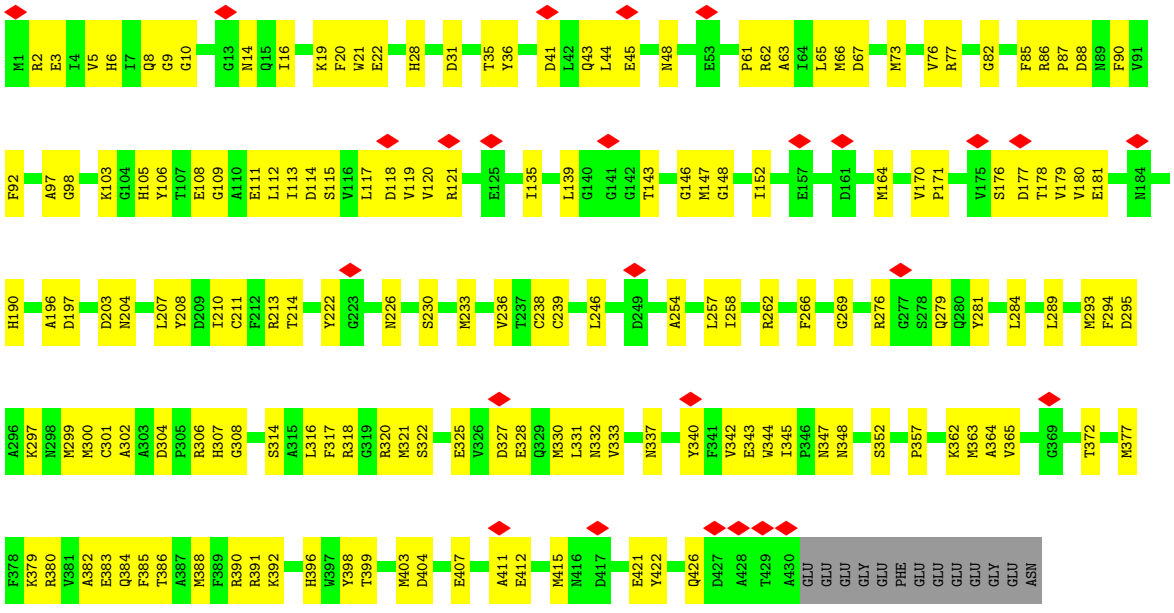




• Molecule 46: Tubulin beta chain

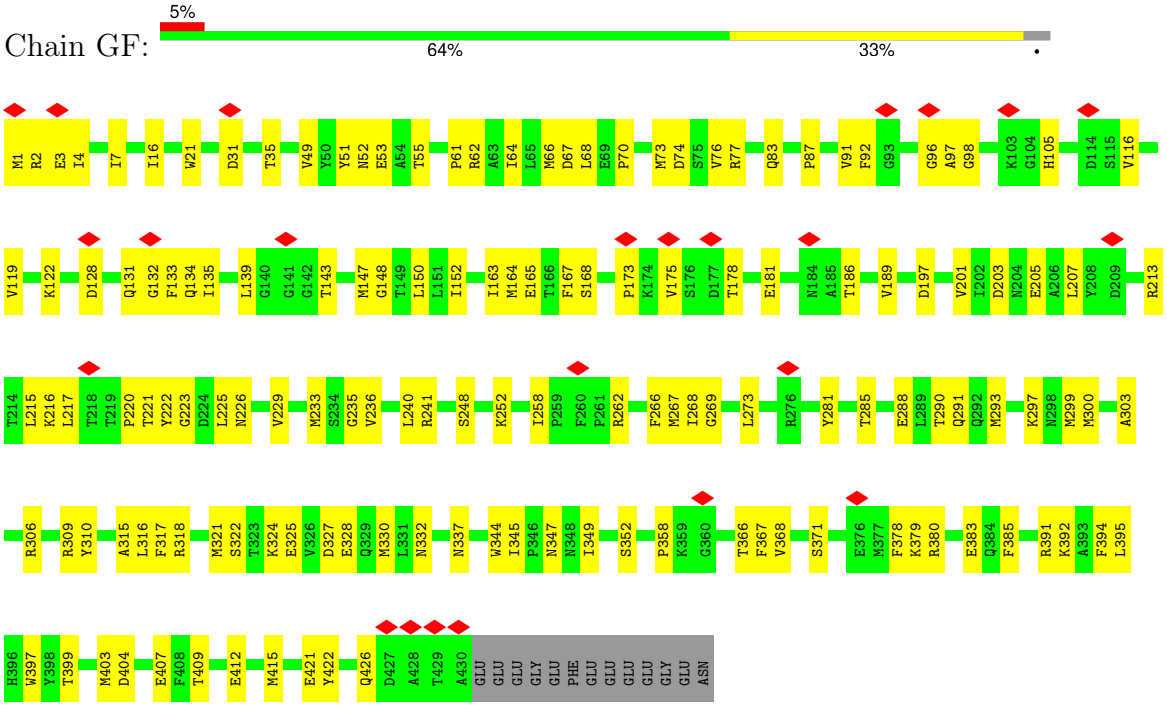
Chain GD:





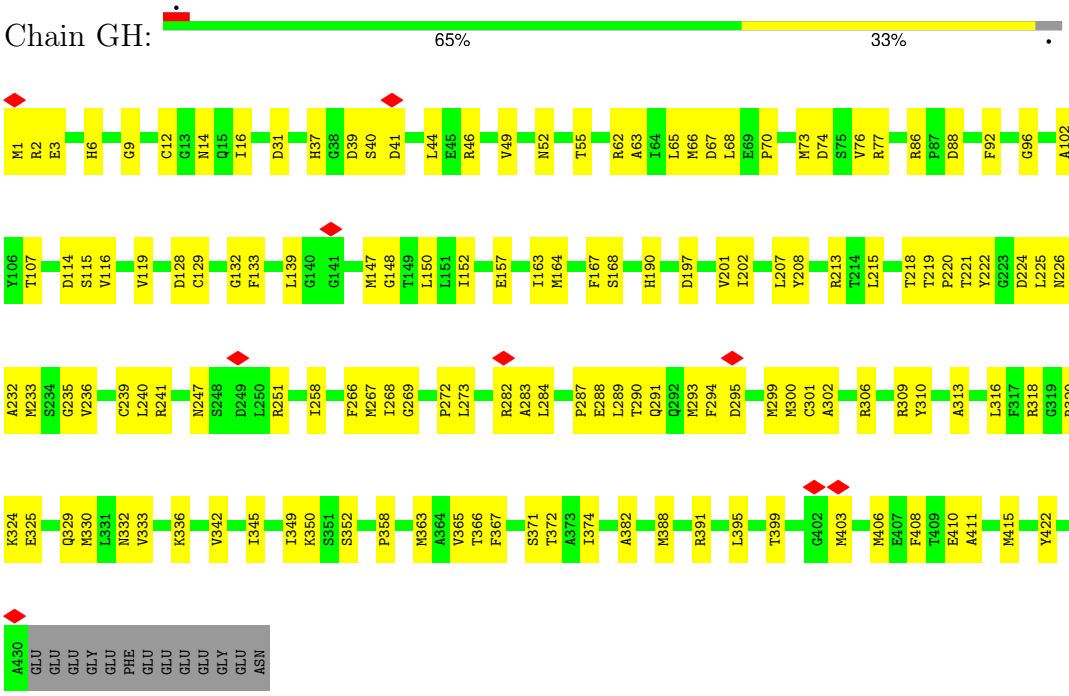
• Molecule 46: Tubulin beta chain

Chain GF:



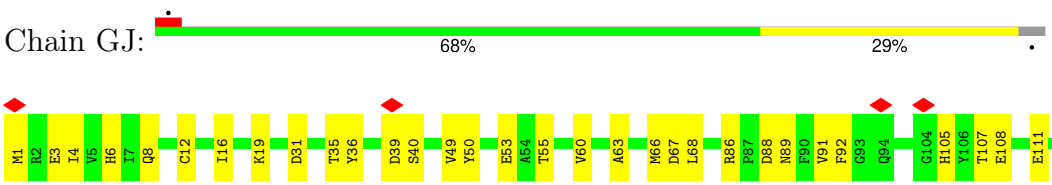
• Molecule 46: Tubulin beta chain

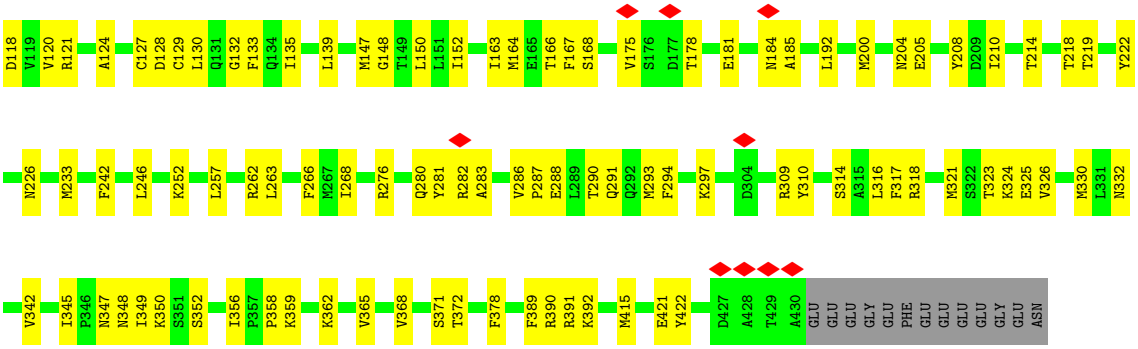
Chain GH:



• Molecule 46: Tubulin beta chain

Chain GJ:

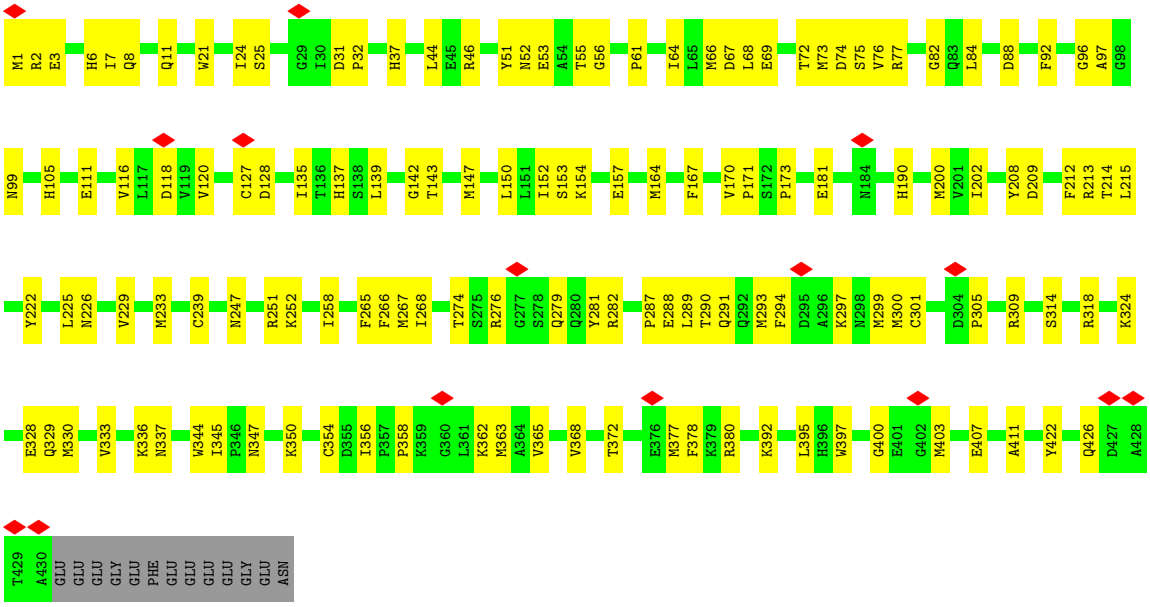




• Molecule 46: Tubulin beta chain

Chain GL:

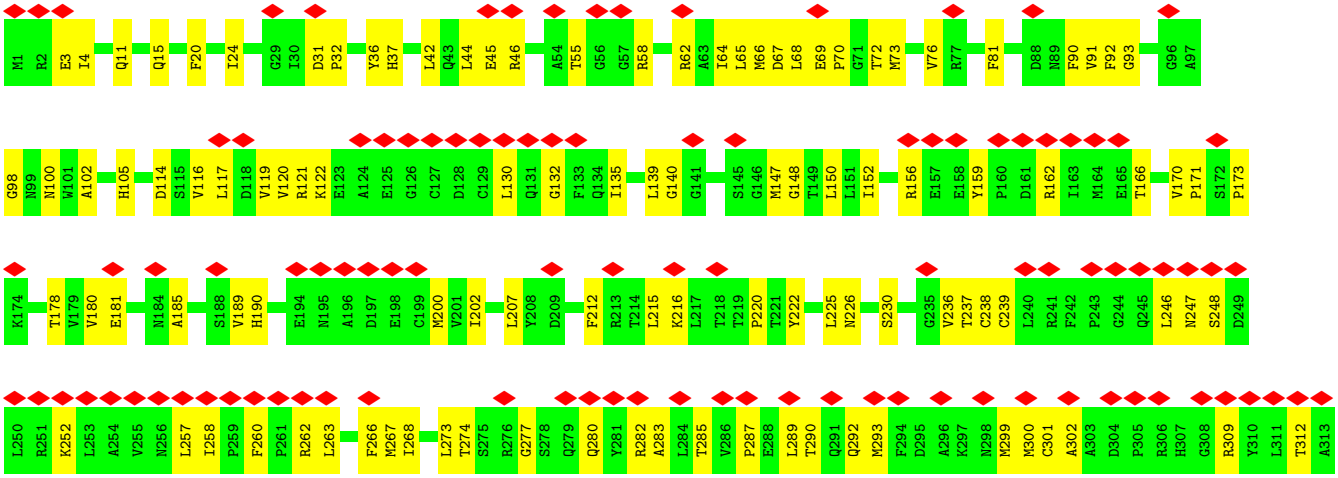


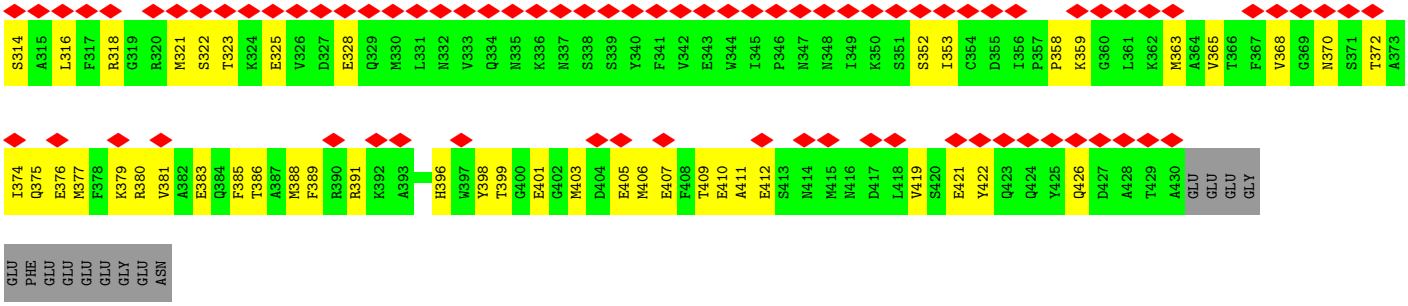


• Molecule 46: Tubulin beta chain

Chain GN:



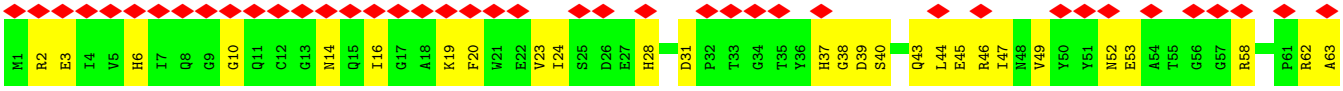


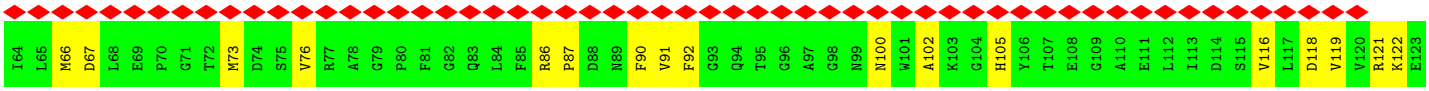


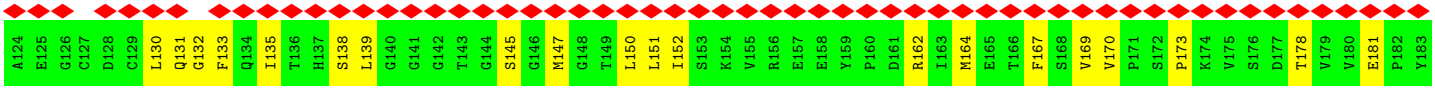
• Molecule 46: Tubulin beta chain

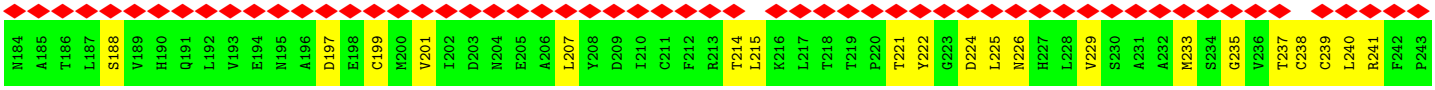
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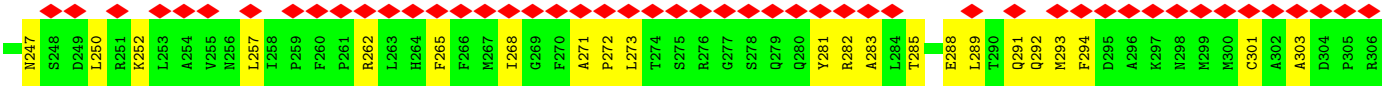


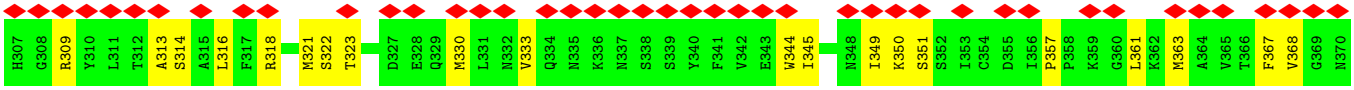


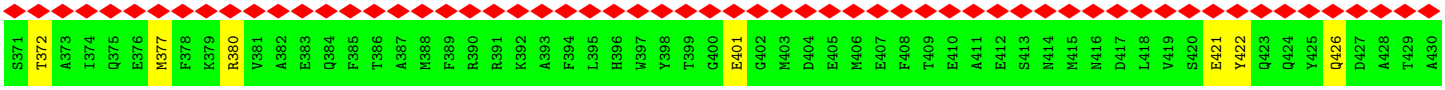










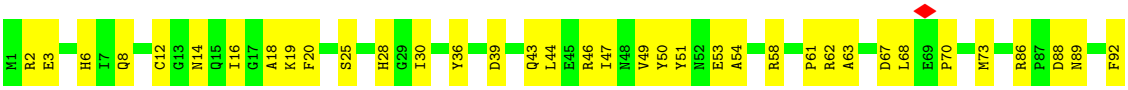


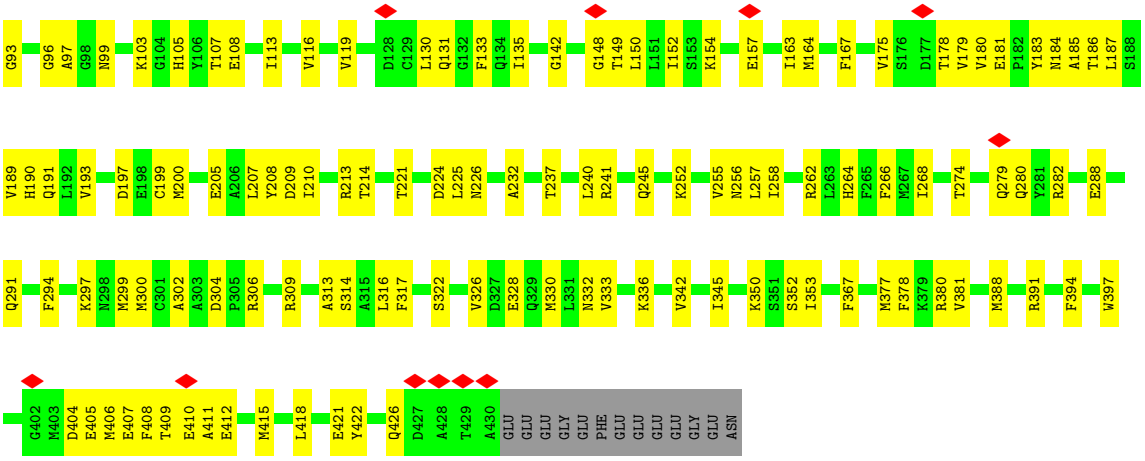


• Molecule 46: Tubulin beta chain

Chain HD:



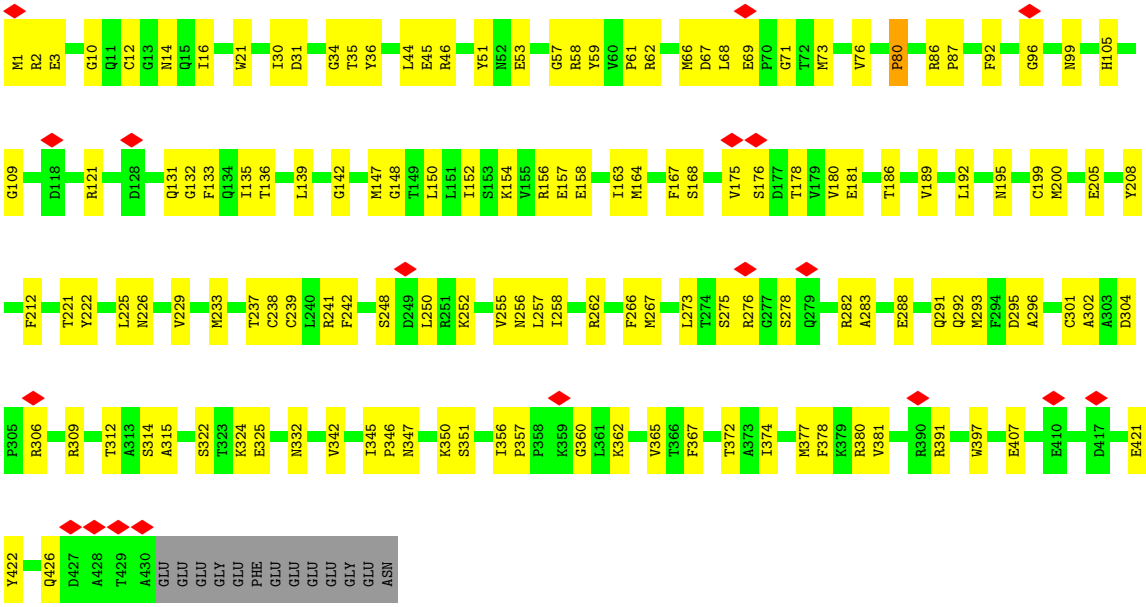




• Molecule 46: Tubulin beta chain

Chain HF:

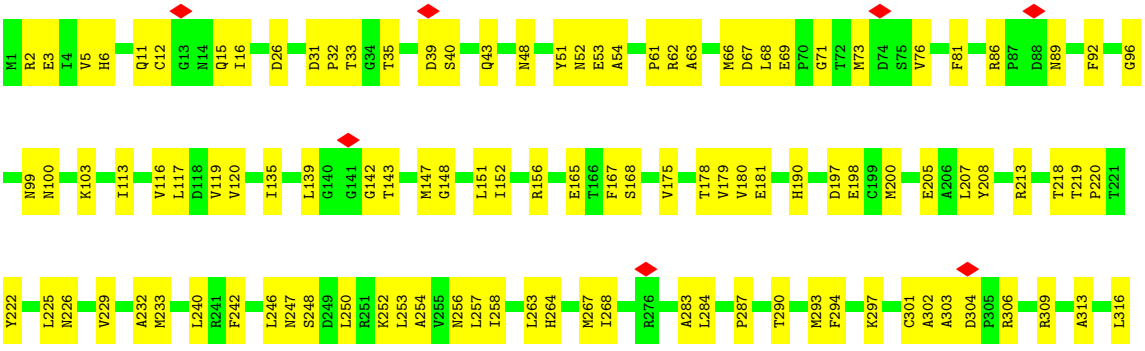


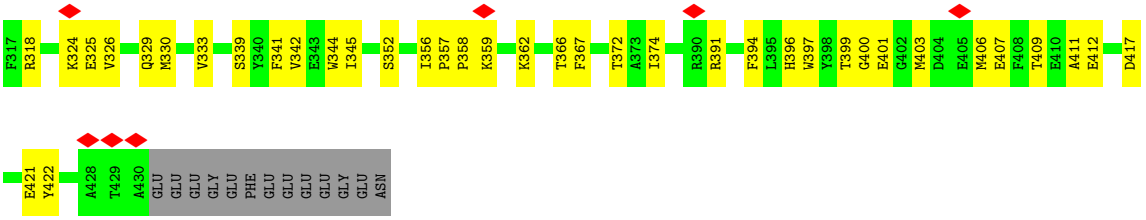


• Molecule 46: Tubulin beta chain

Chain HH:



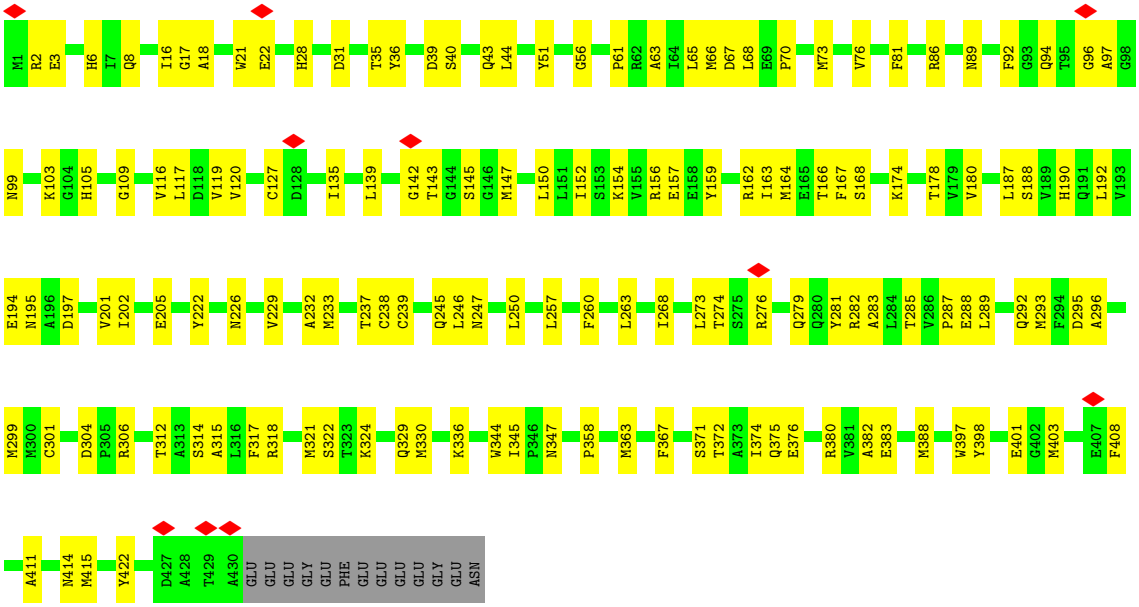




• Molecule 46: Tubulin beta chain

Chain HJ:

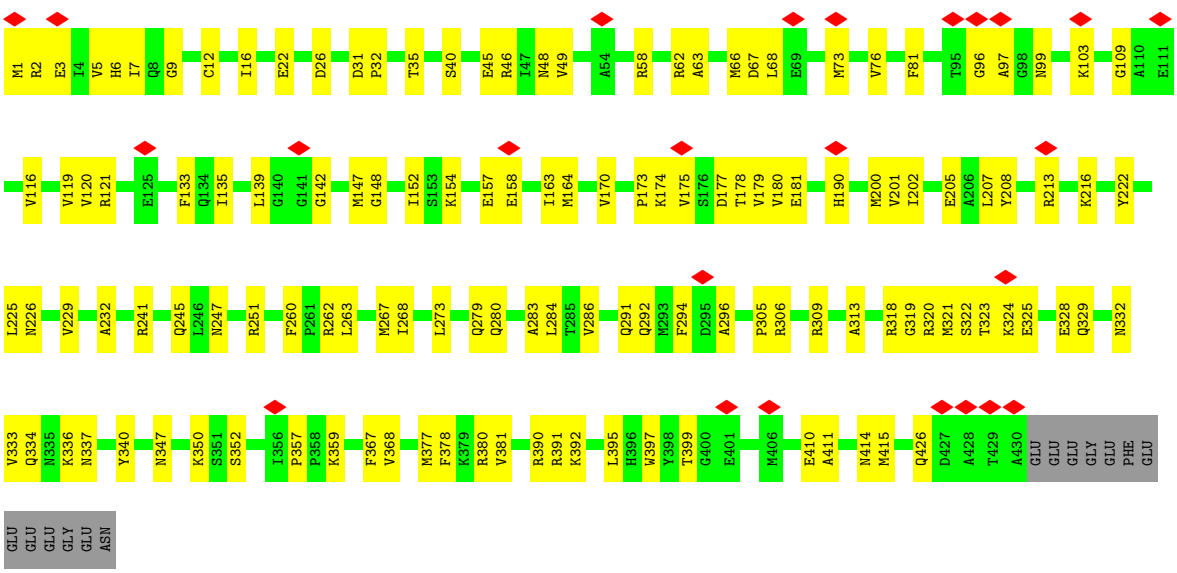




• Molecule 46: Tubulin beta chain

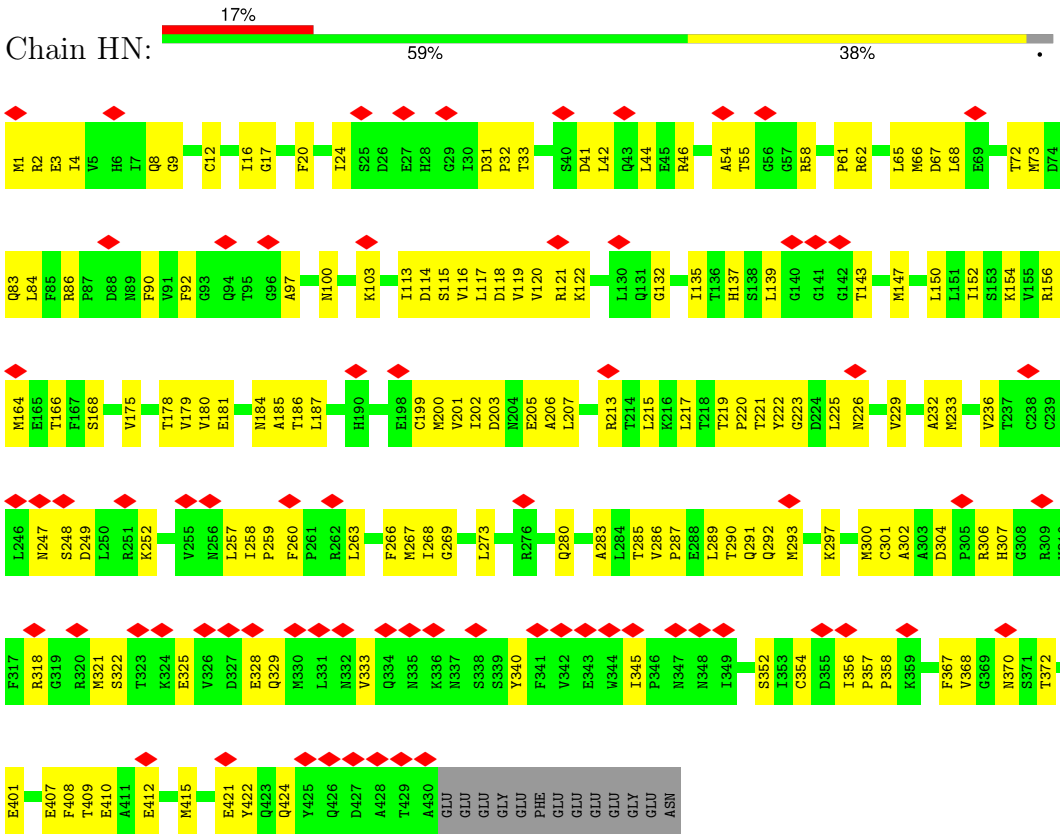
Chain HL:





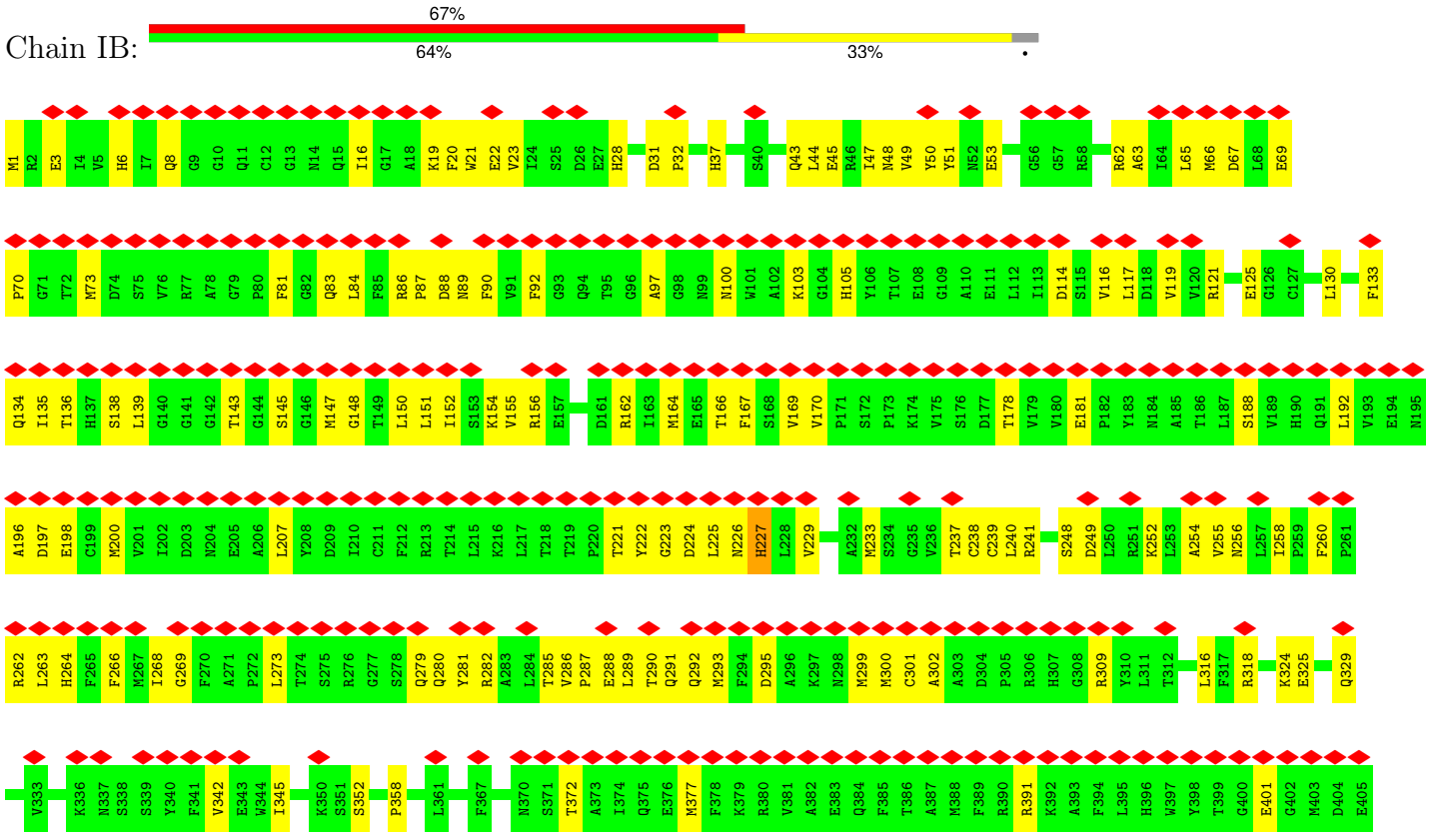
• Molecule 46: Tubulin beta chain

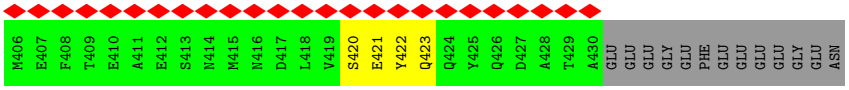
Chain HN:



• Molecule 46: Tubulin beta chain

Chain IB:

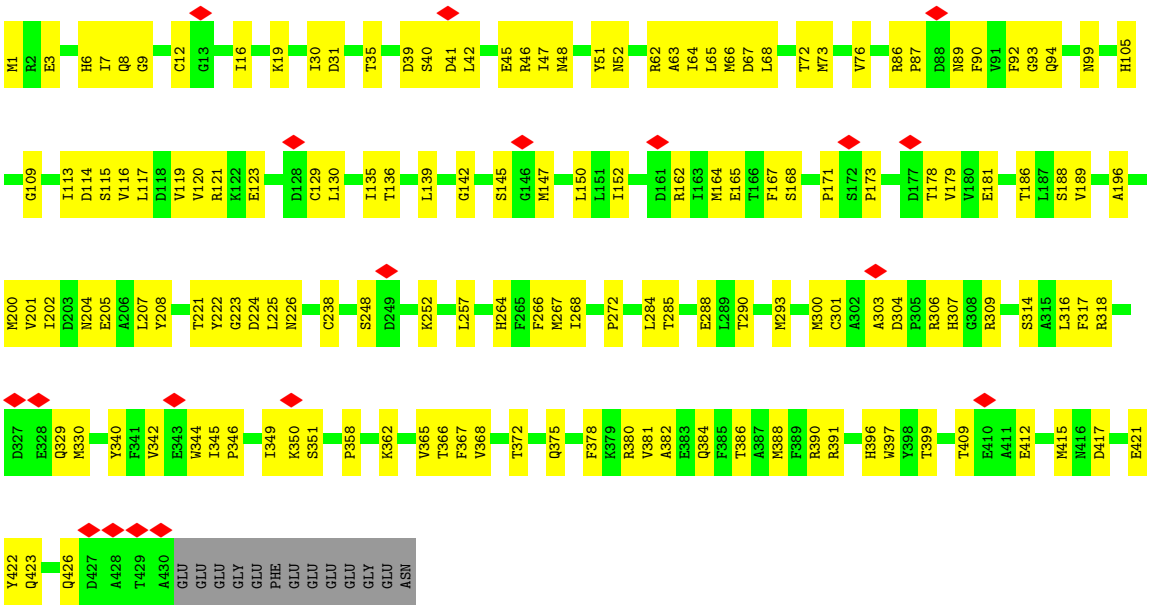




• Molecule 46: Tubulin beta chain

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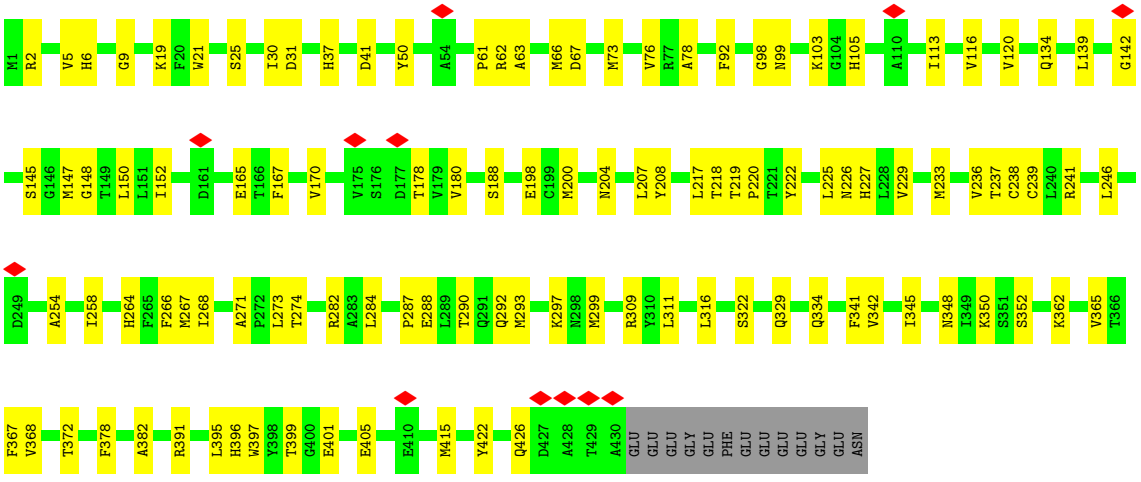




• Molecule 46: Tubulin beta chain

Chain IF:

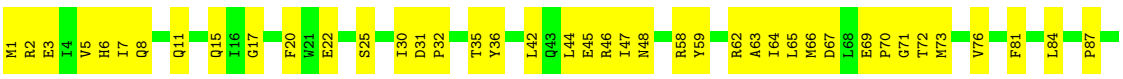


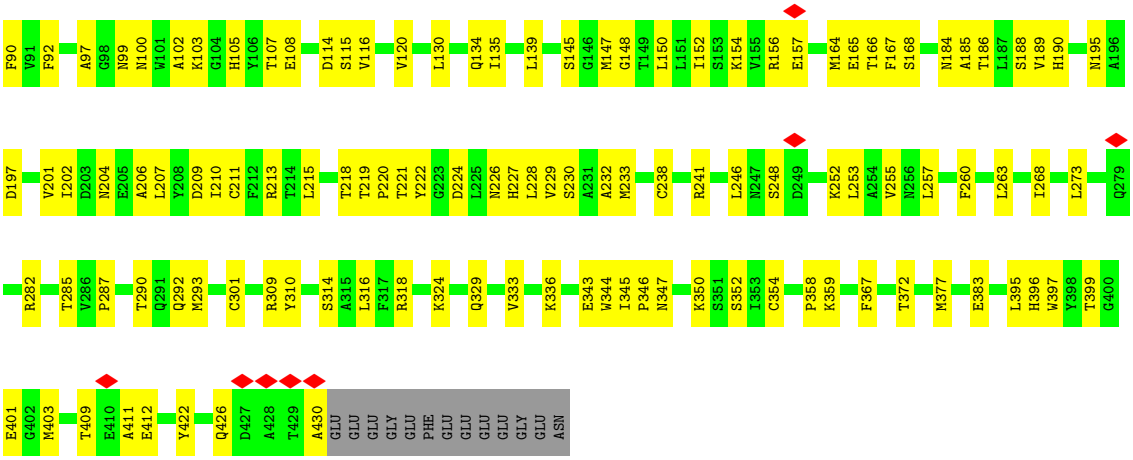


• Molecule 46: Tubulin beta chain

Chain IH:



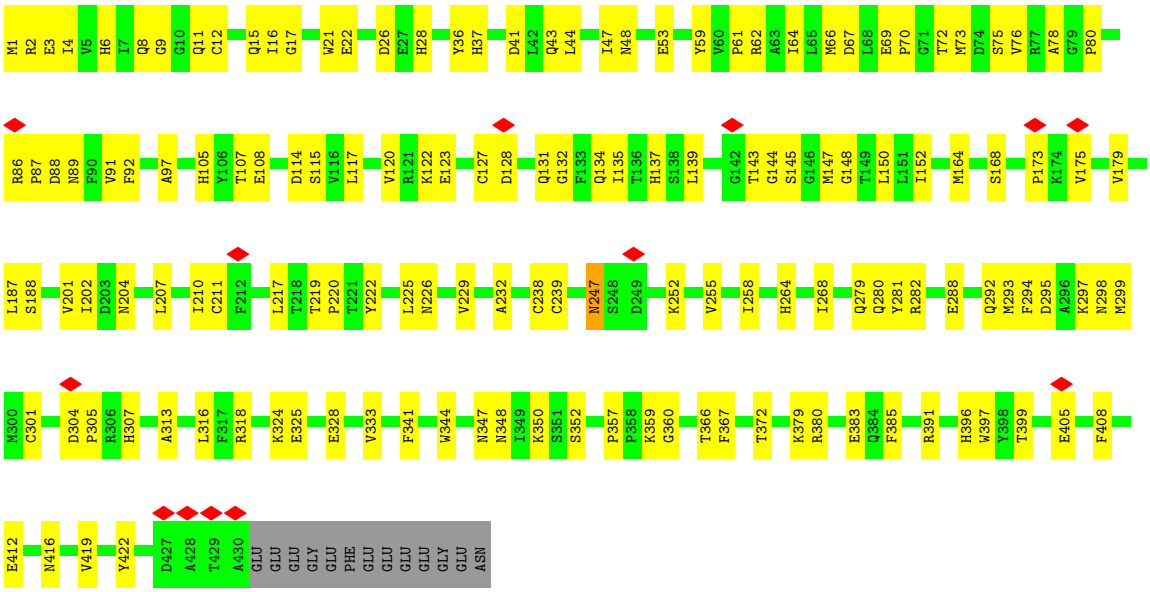




• Molecule 46: Tubulin beta chain

Chain IJ:

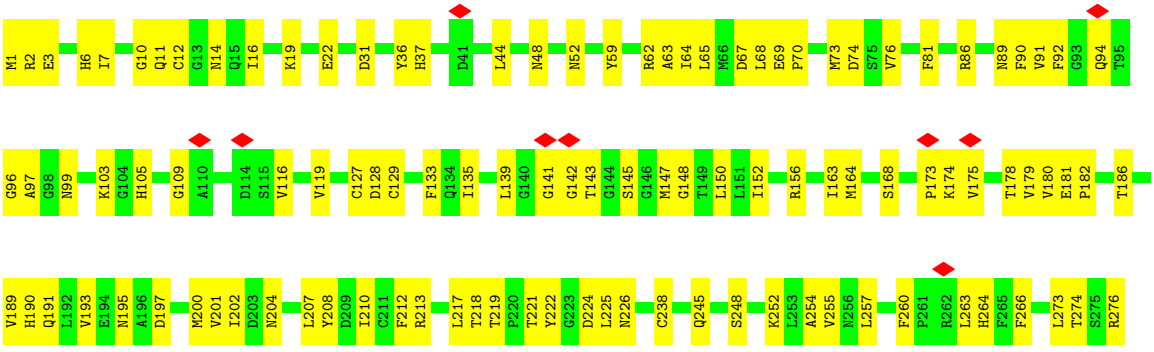


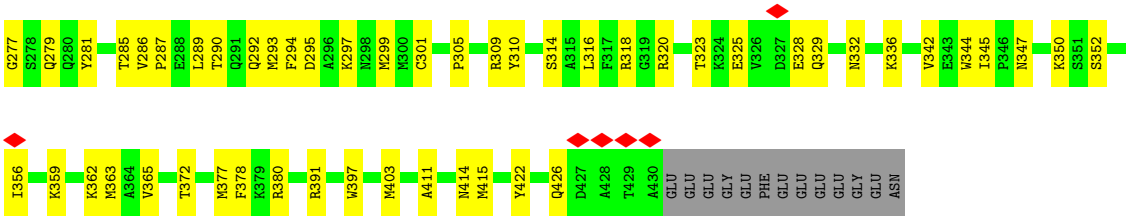


• Molecule 46: Tubulin beta chain

Chain IL:

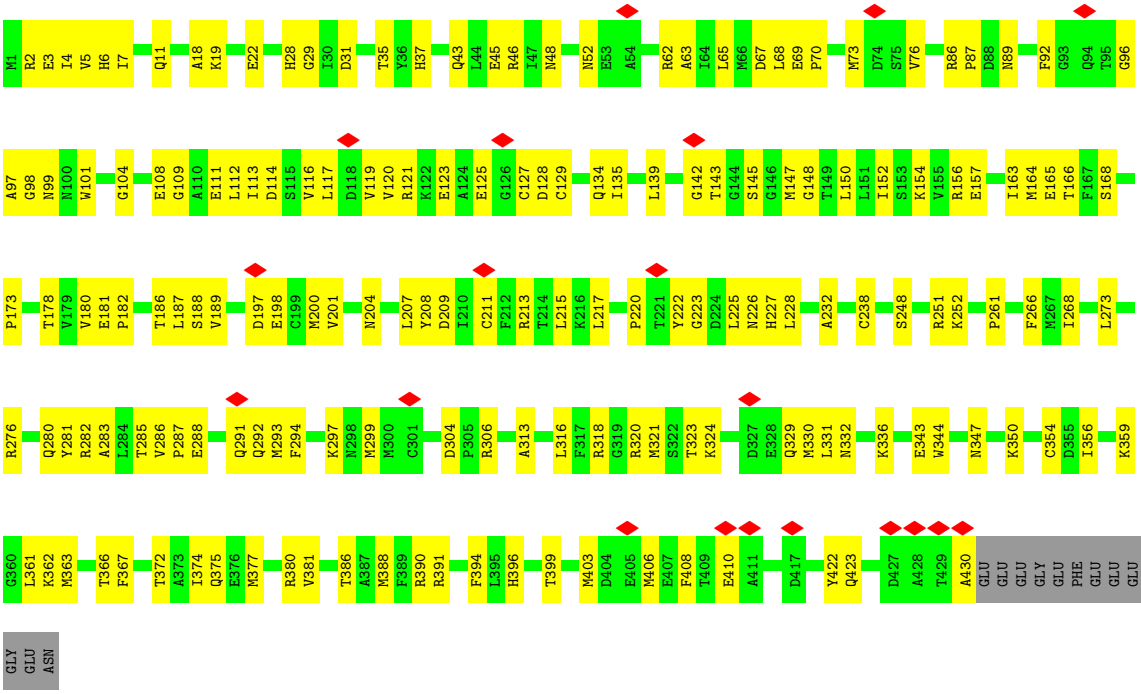






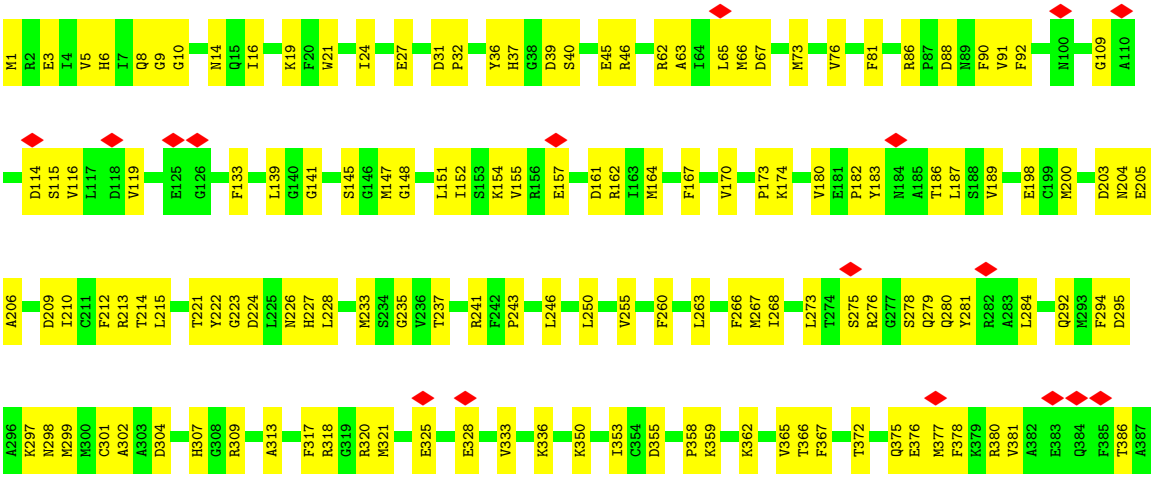
• Molecule 46: Tubulin beta chain

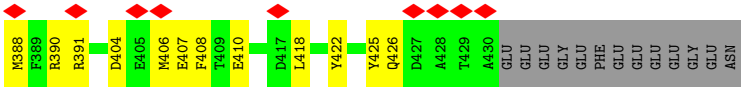




• Molecule 46: Tubulin beta chain



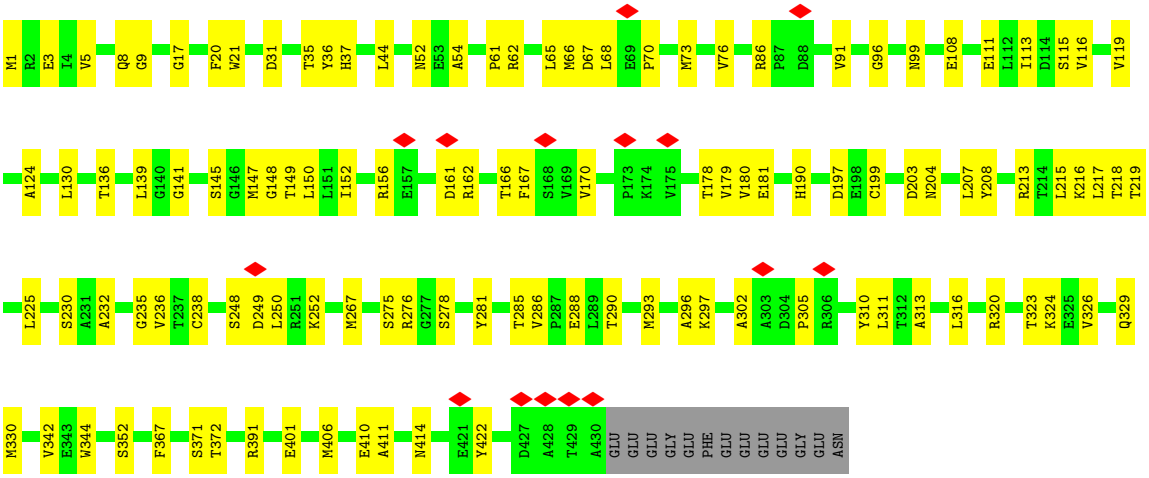




• Molecule 46: Tubulin beta chain

Chain JD:

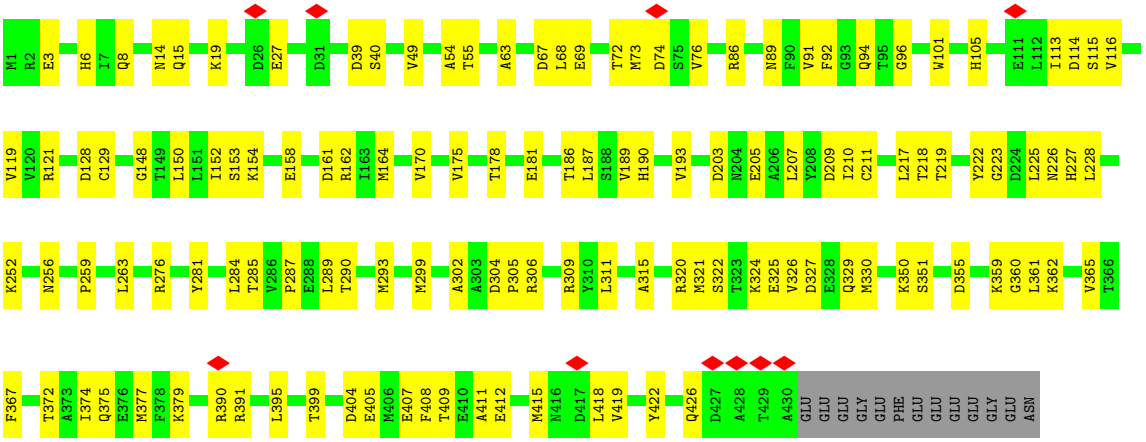




• Molecule 46: Tubulin beta chain

Chain JF:

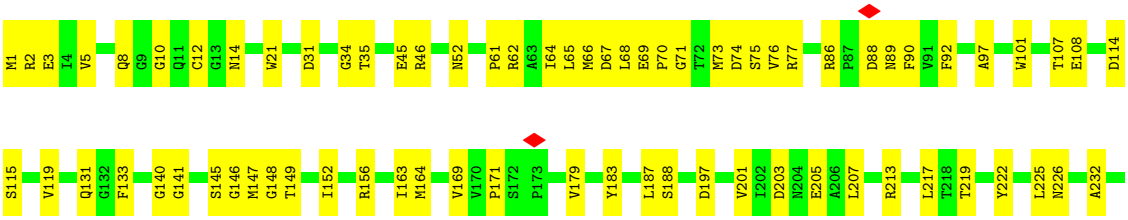


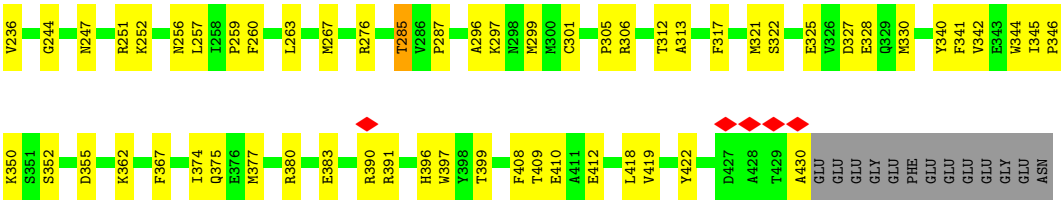


• Molecule 46: Tubulin beta chain

Chain JH:





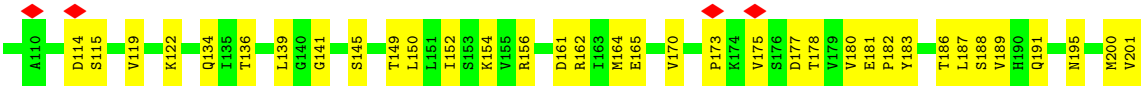


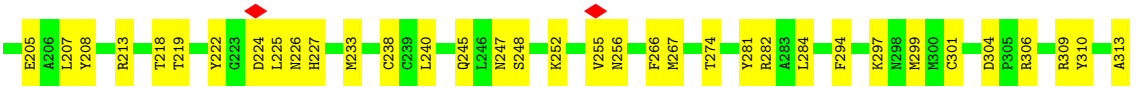
• Molecule 46: Tubulin beta chain

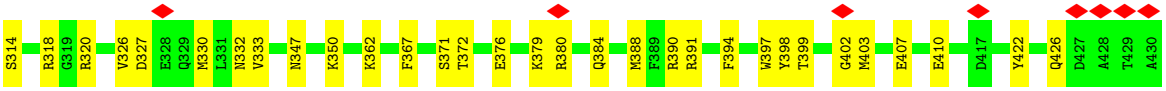
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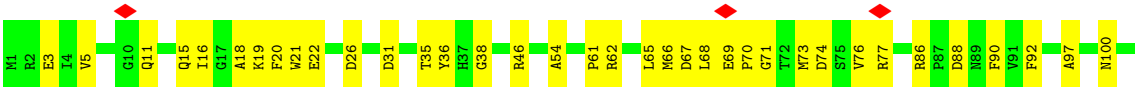




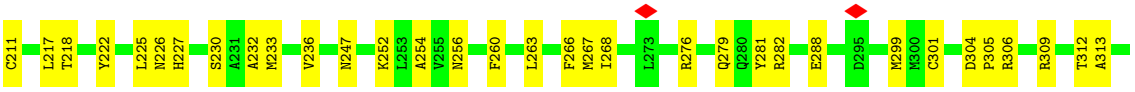
• Molecule 46: Tubulin beta chain

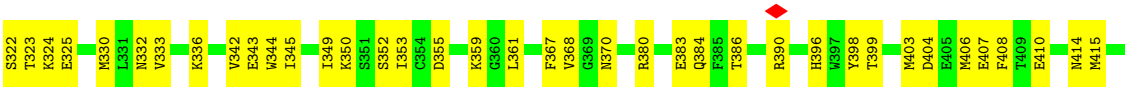
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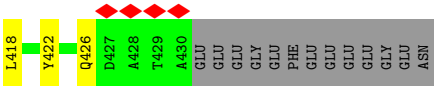






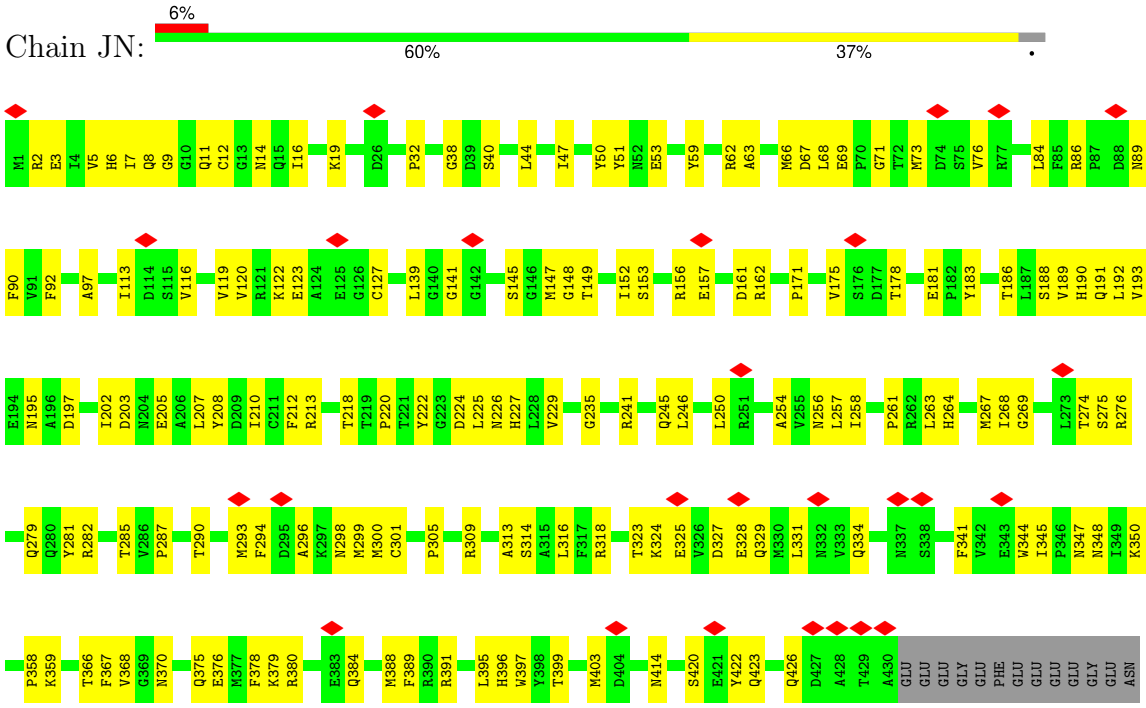






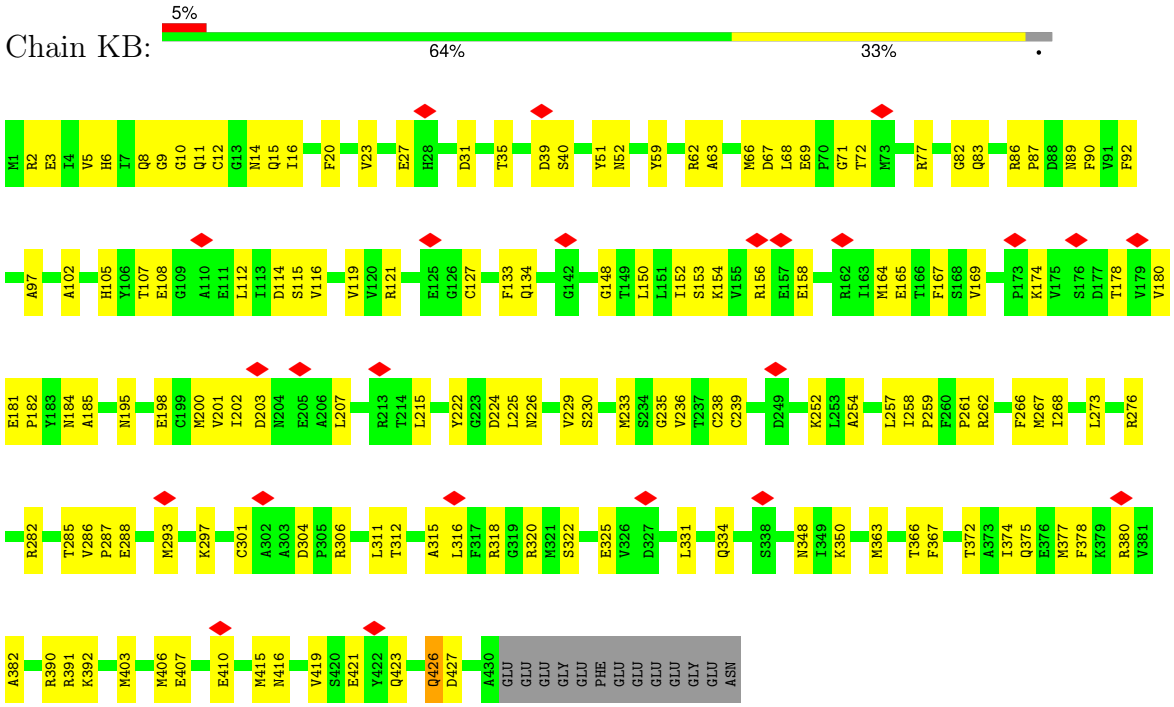
• Molecule 46: Tubulin beta chain

Chain JN:



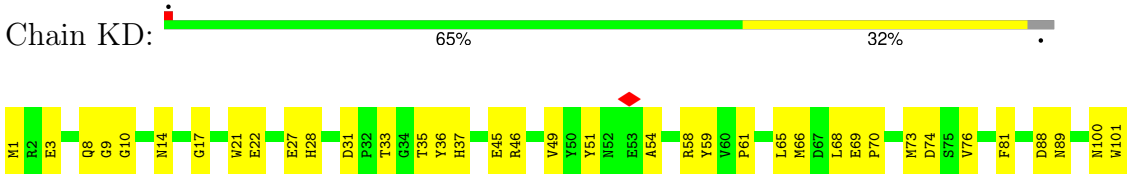
• Molecule 46: Tubulin beta chain

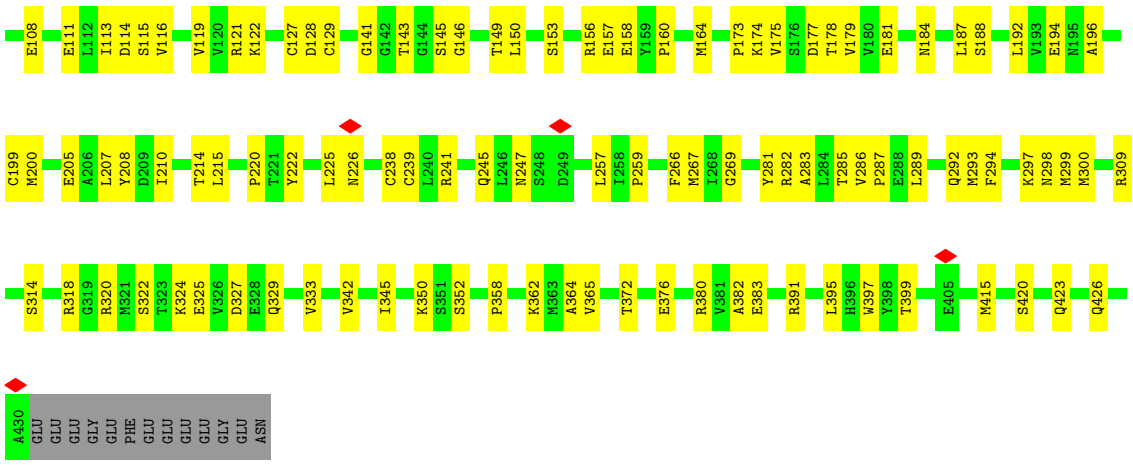
Chain KB:



• Molecule 46: Tubulin beta chain

Chain KD:

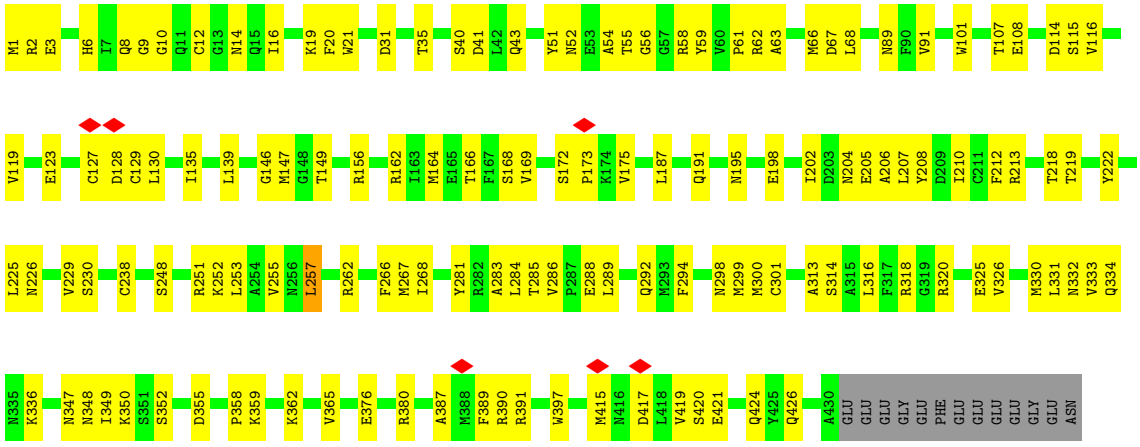




• Molecule 46: Tubulin beta chain

Chain KF:

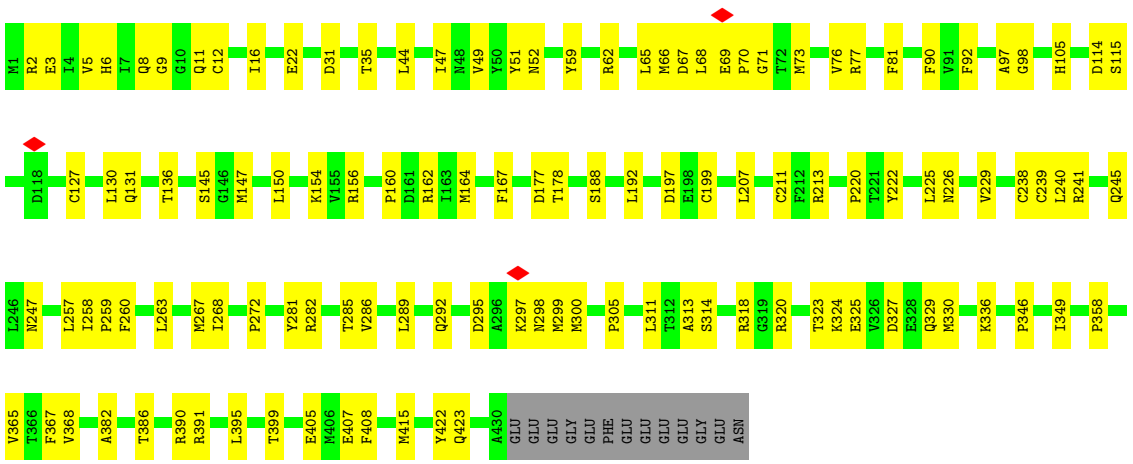




• Molecule 46: Tubulin beta chain

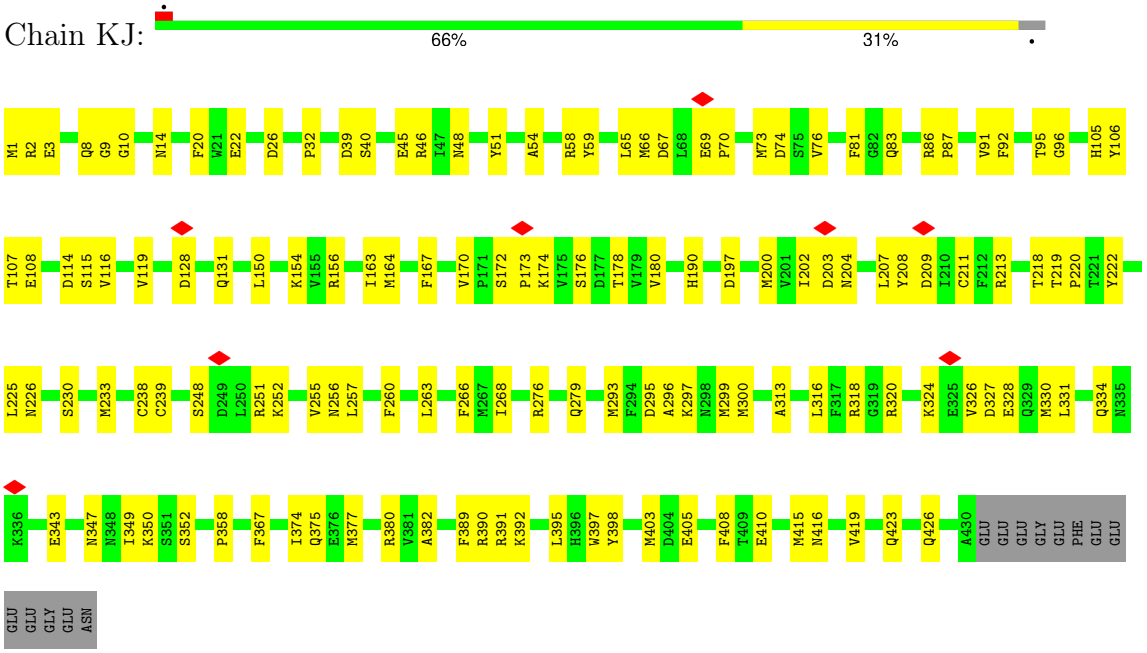
Chain KH:





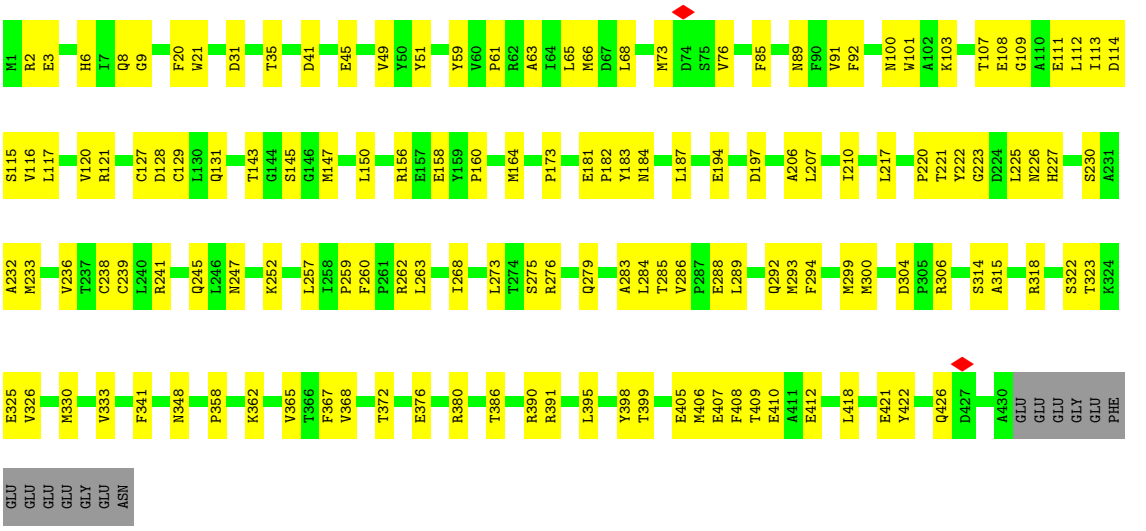
• Molecule 46: Tubulin beta chain

Chain KJ:



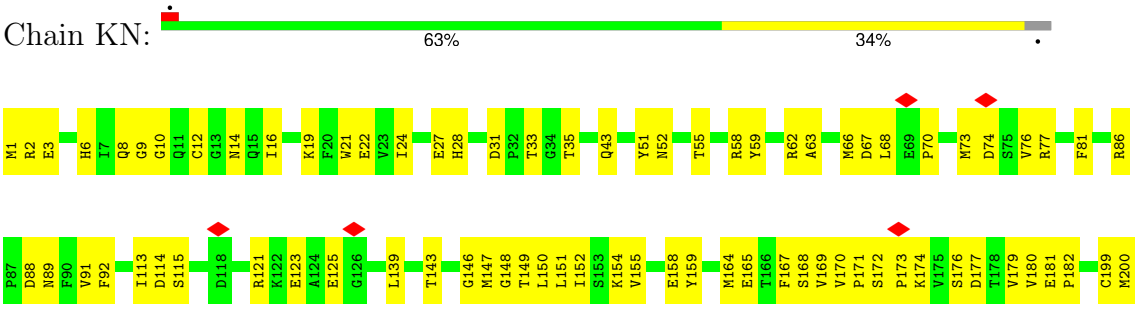
• Molecule 46: Tubulin beta chain

Chain KL:



• Molecule 46: Tubulin beta chain

Chain KN:

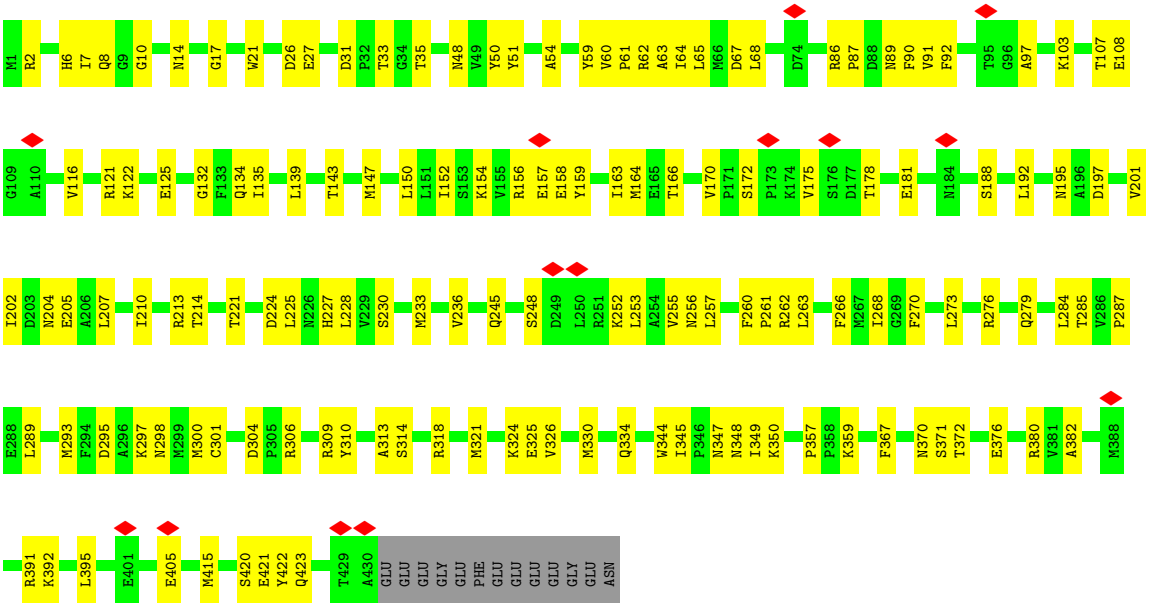




• Molecule 46: Tubulin beta chain

Chain LB:

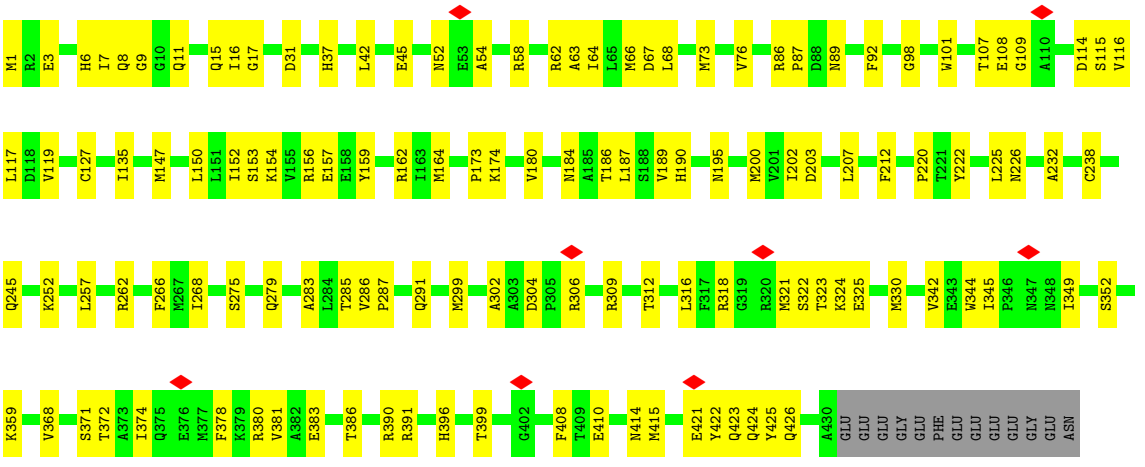




• Molecule 46: Tubulin beta chain

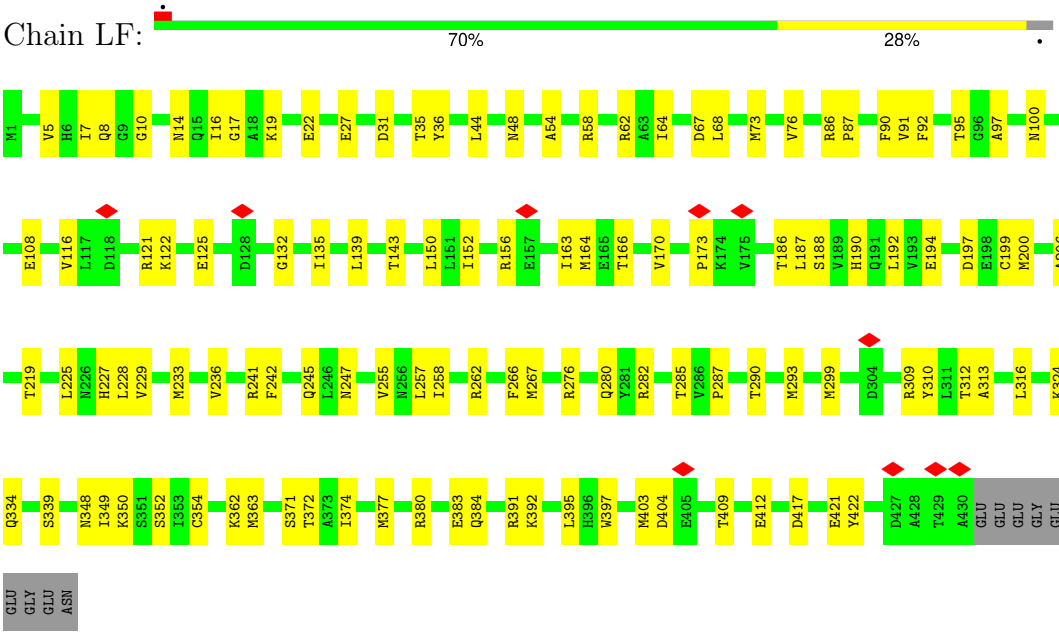
Chain LD:





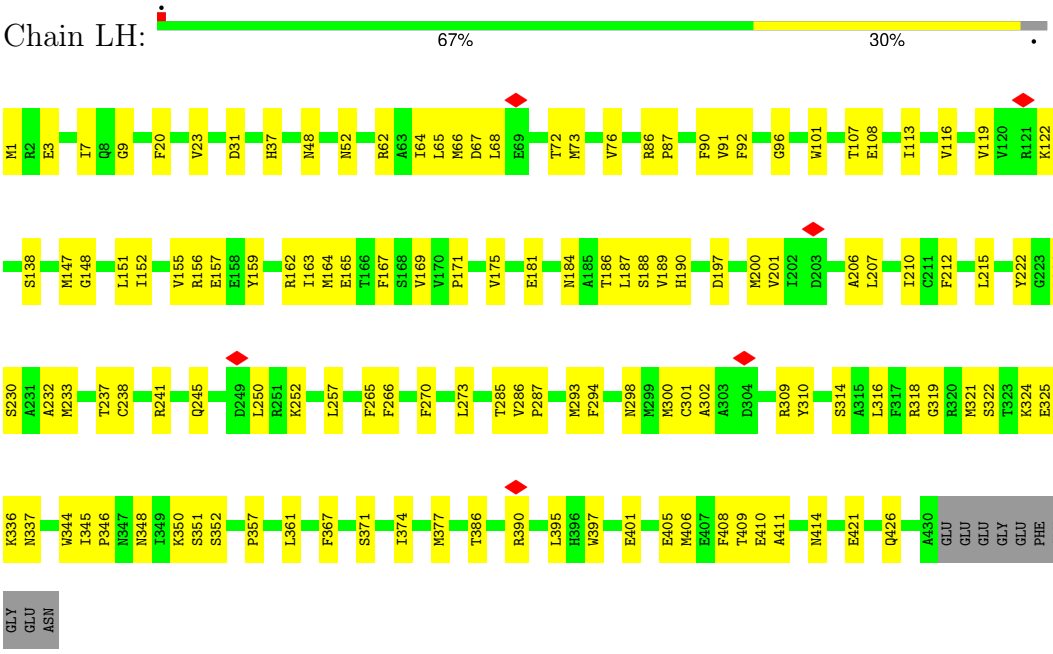
• Molecule 46: Tubulin beta chain

Chain LF:



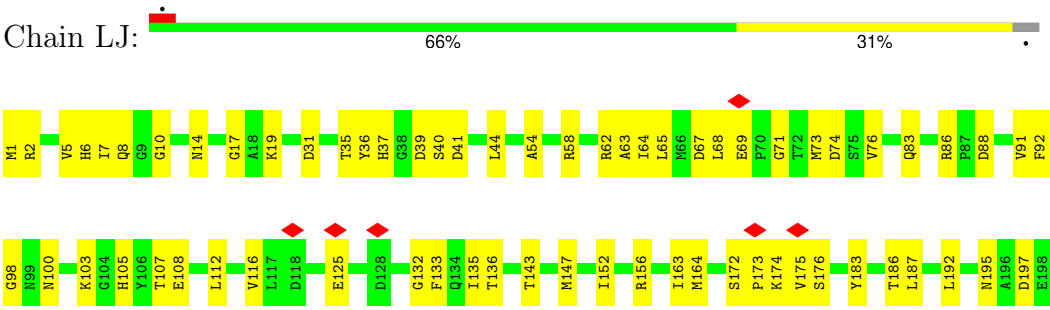
• Molecule 46: Tubulin beta chain

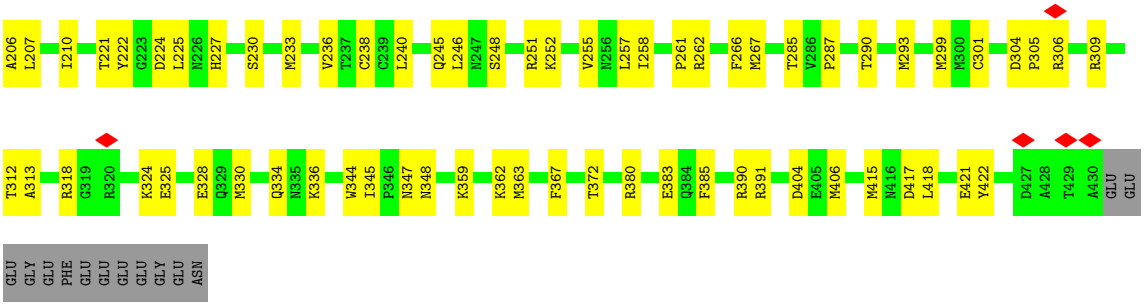
Chain LH:



• Molecule 46: Tubulin beta chain

Chain LJ:

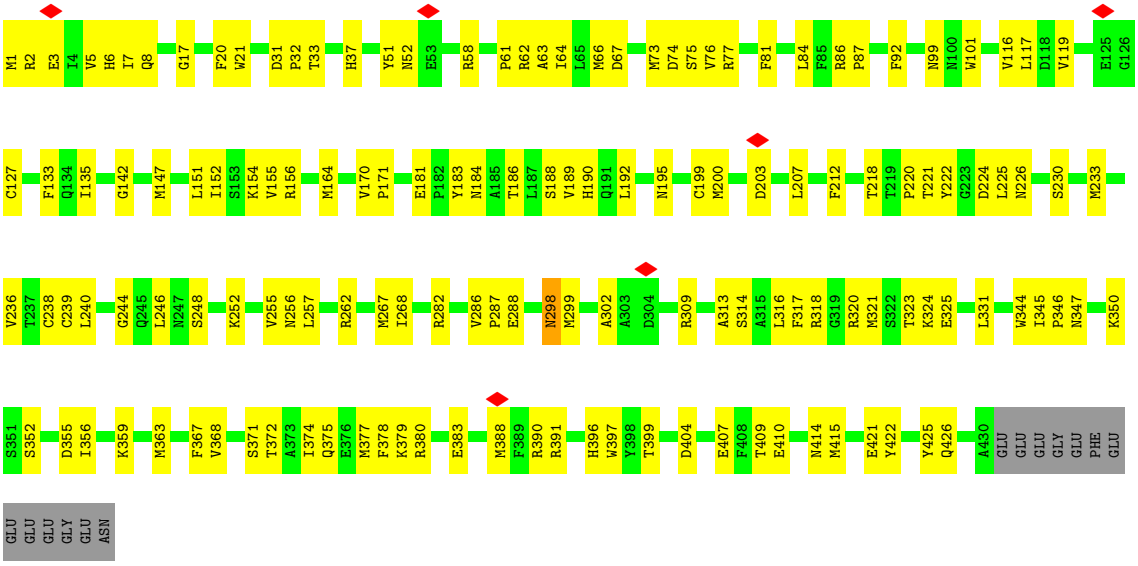




• Molecule 46: Tubulin beta chain

Chain LL:

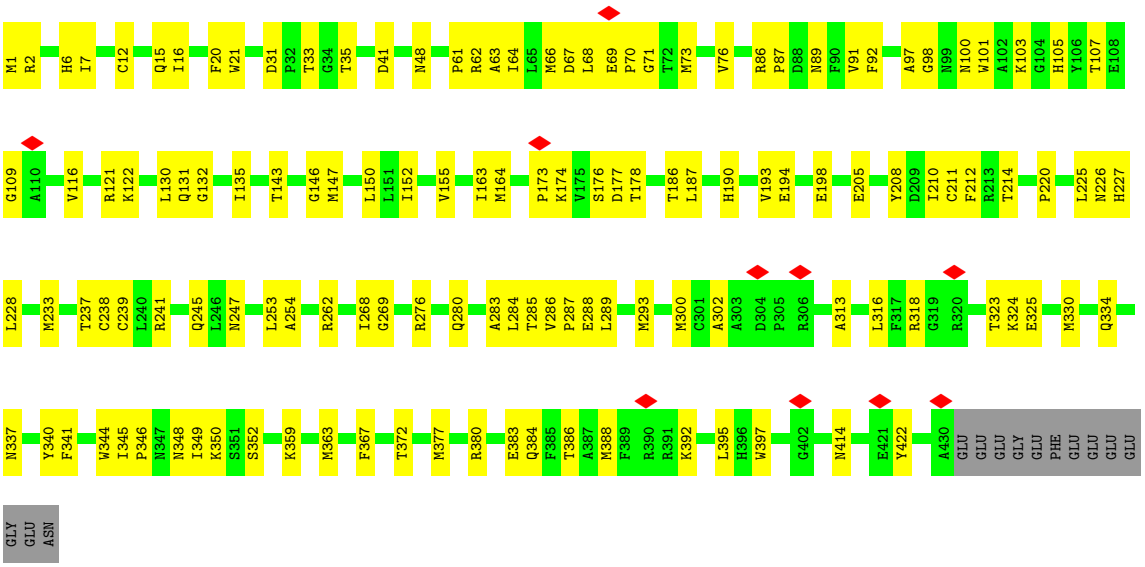




• Molecule 46: Tubulin beta chain

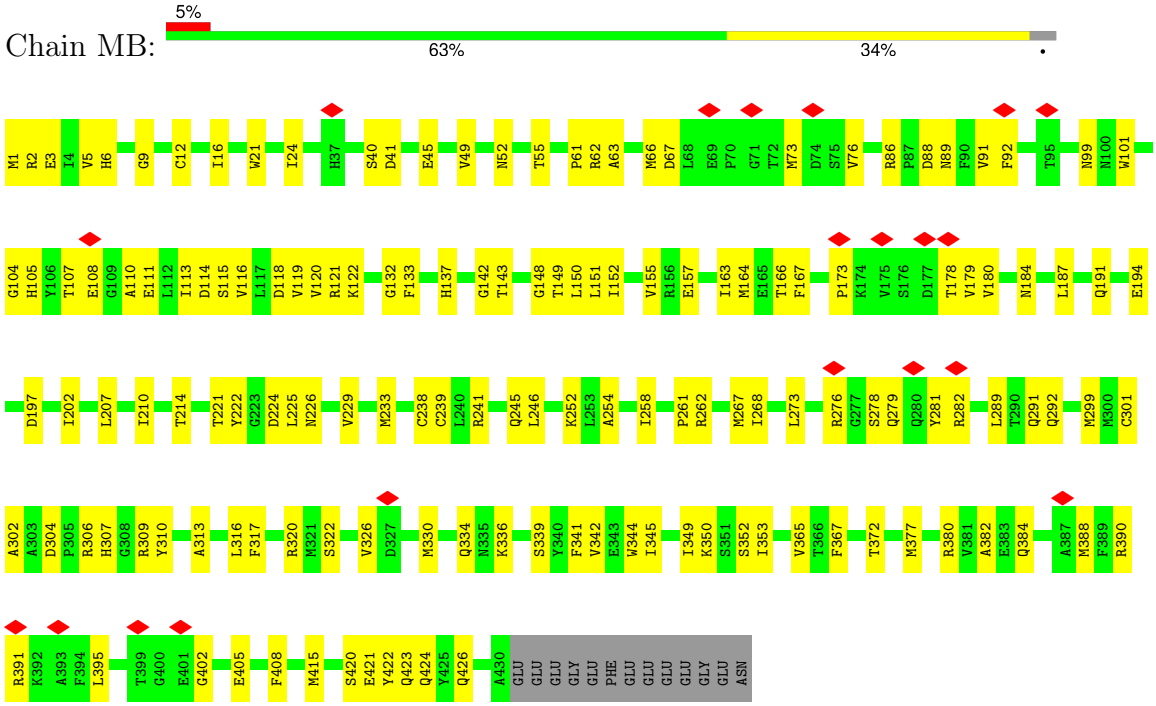
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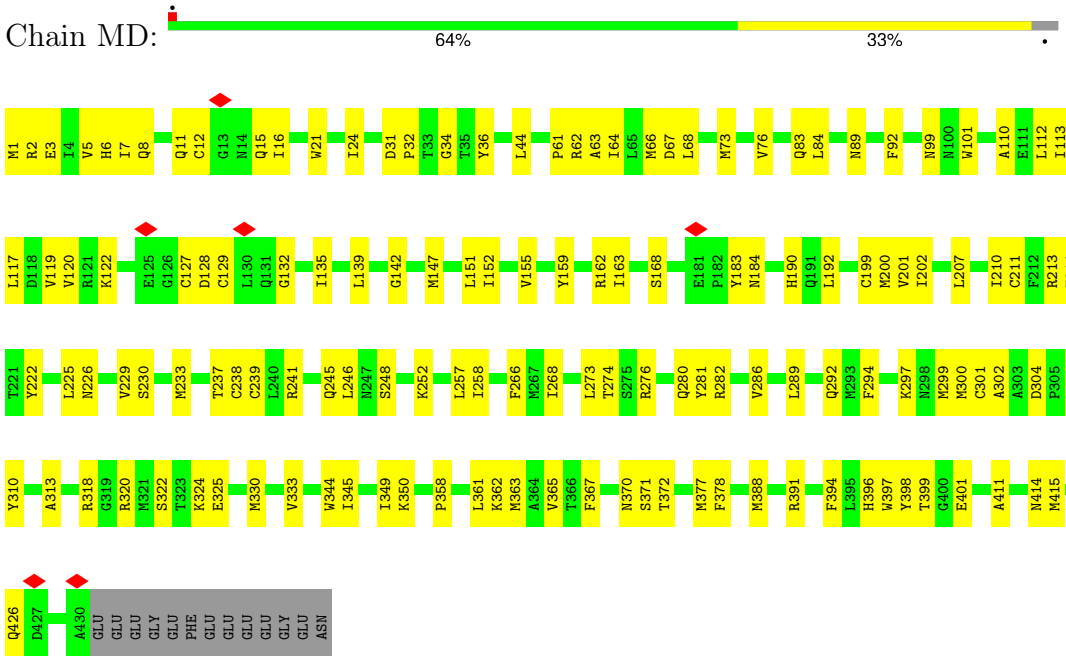
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Chain MB:



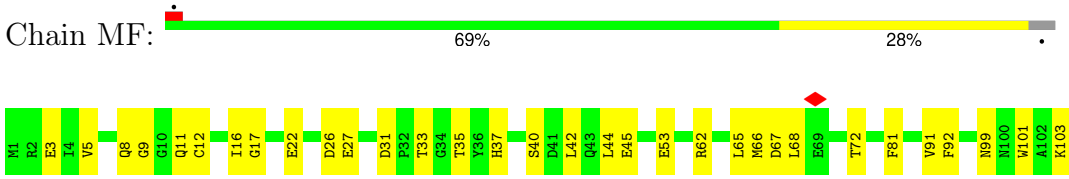
• Molecule 46: Tubulin beta chain

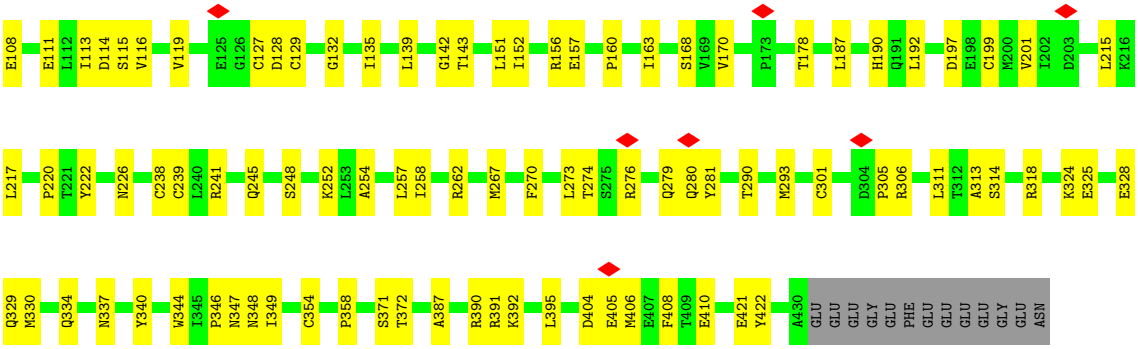
Chain MD:



• Molecule 46: Tubulin beta chain

Chain MF:

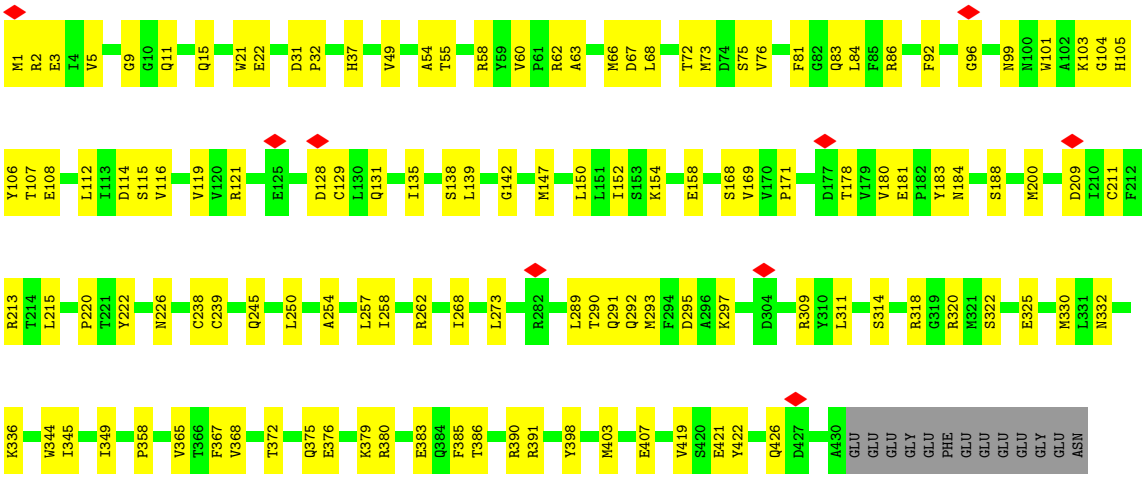




• Molecule 46: Tubulin beta chain

Chain MH:

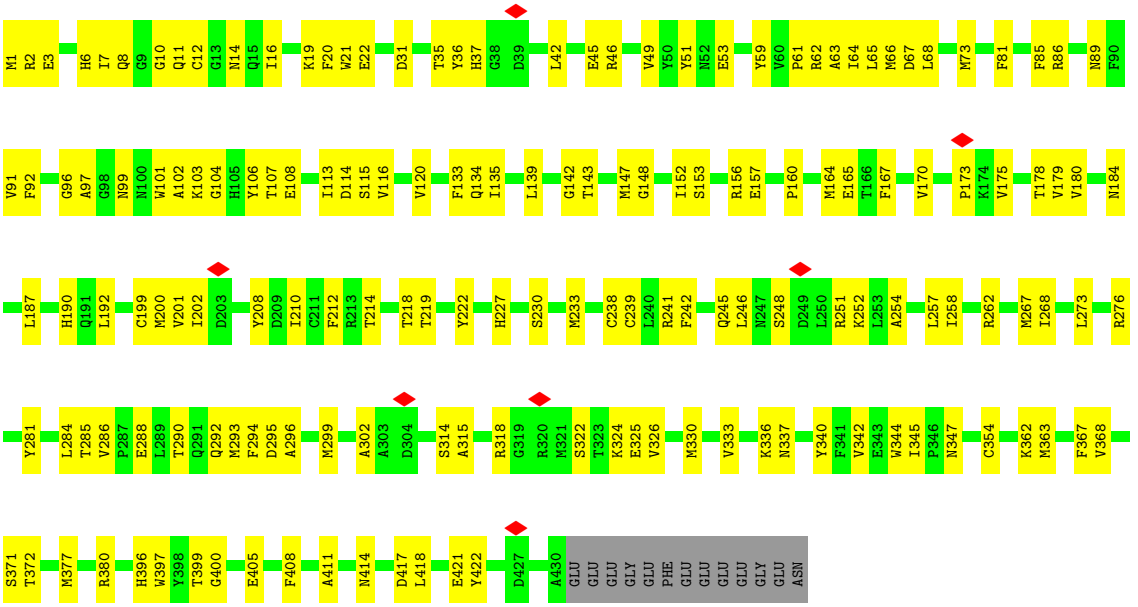




• Molecule 46: Tubulin beta chain

Chain MJ:

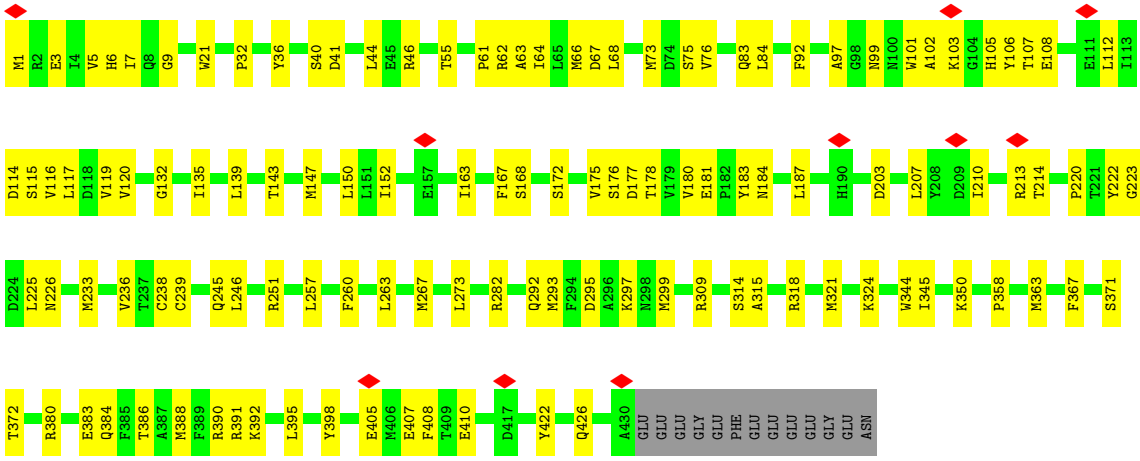




• Molecule 46: Tubulin beta chain

Chain ML:

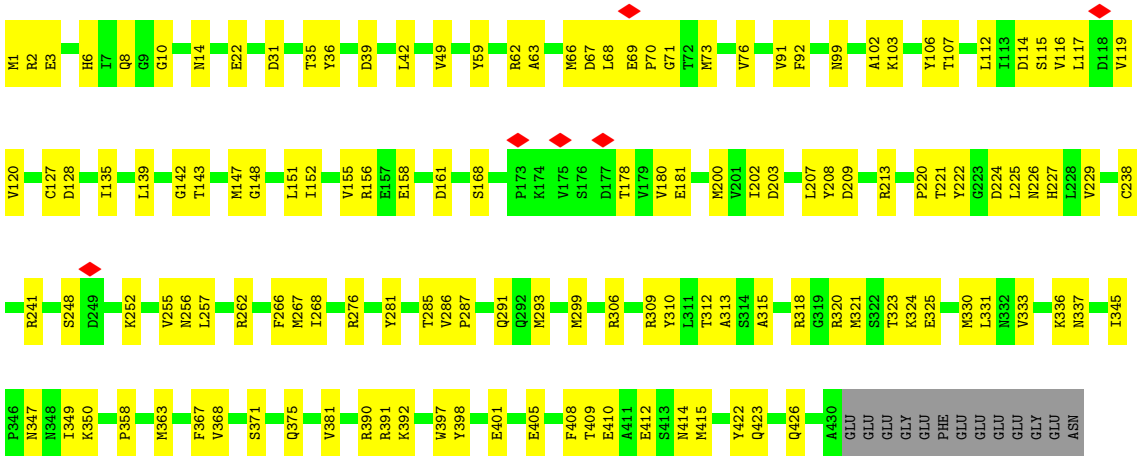




• Molecule 46: Tubulin beta chain

Chain MN:

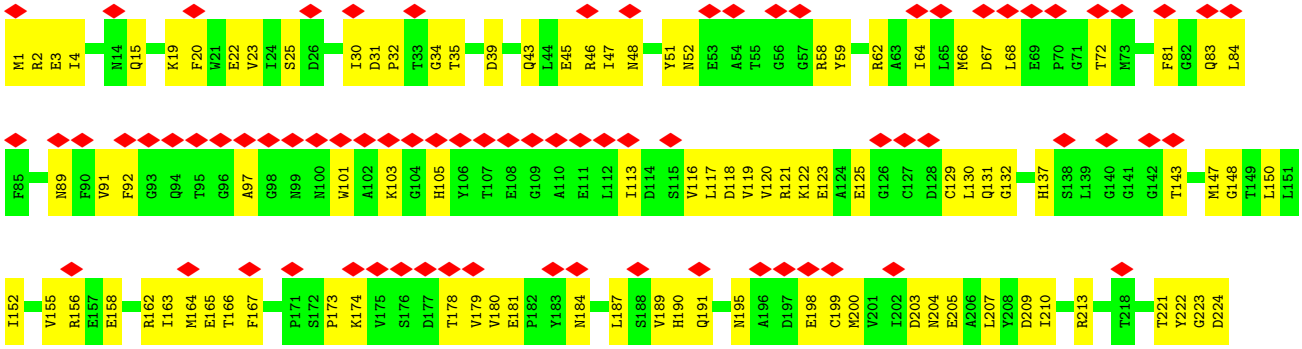


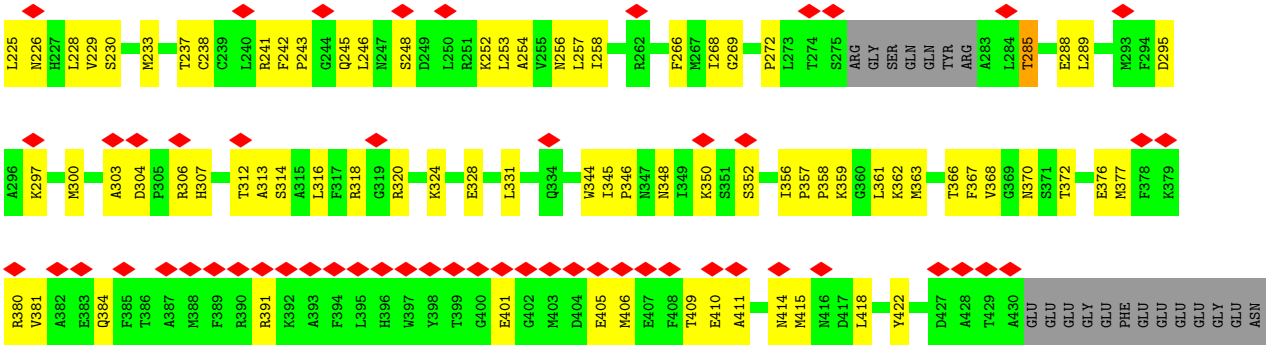


• Molecule 46: Tubulin beta chain

Chain NB:



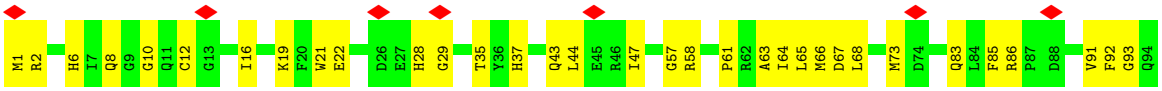




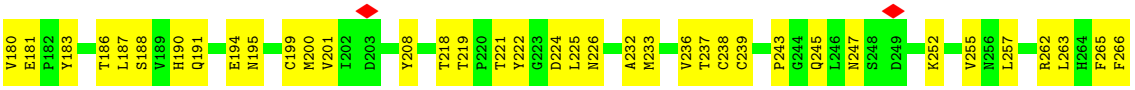
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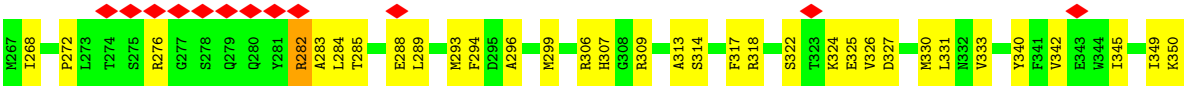
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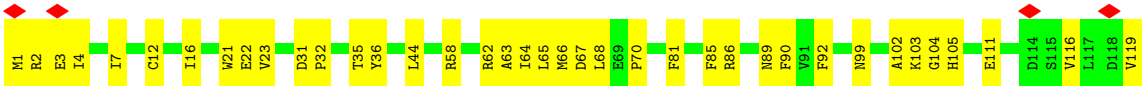


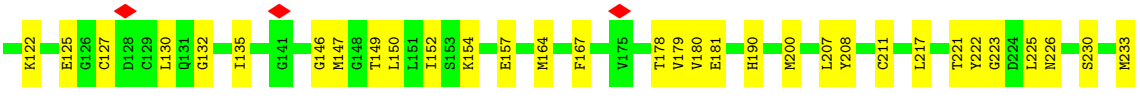


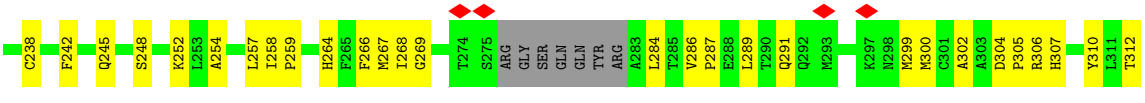
• Molecule 46: Tubulin beta chain

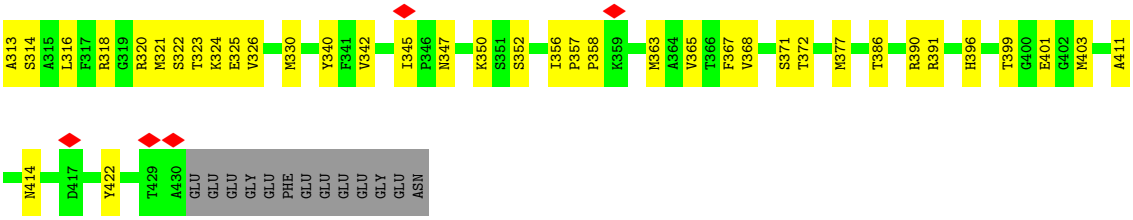
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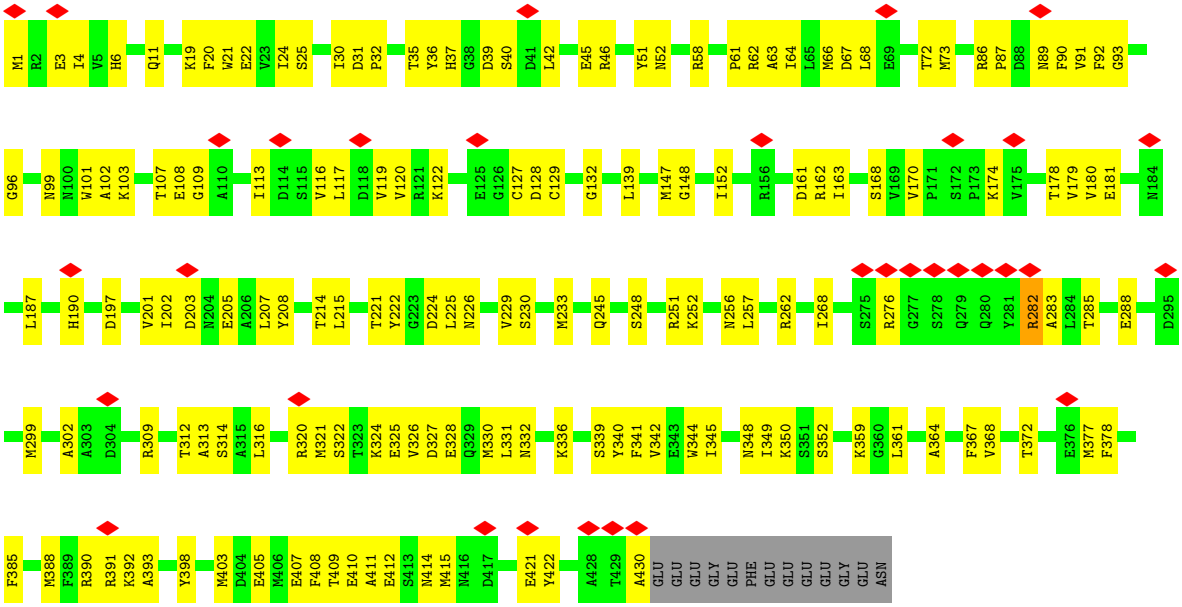




• Molecule 46: Tubulin beta chain

Chain NH:

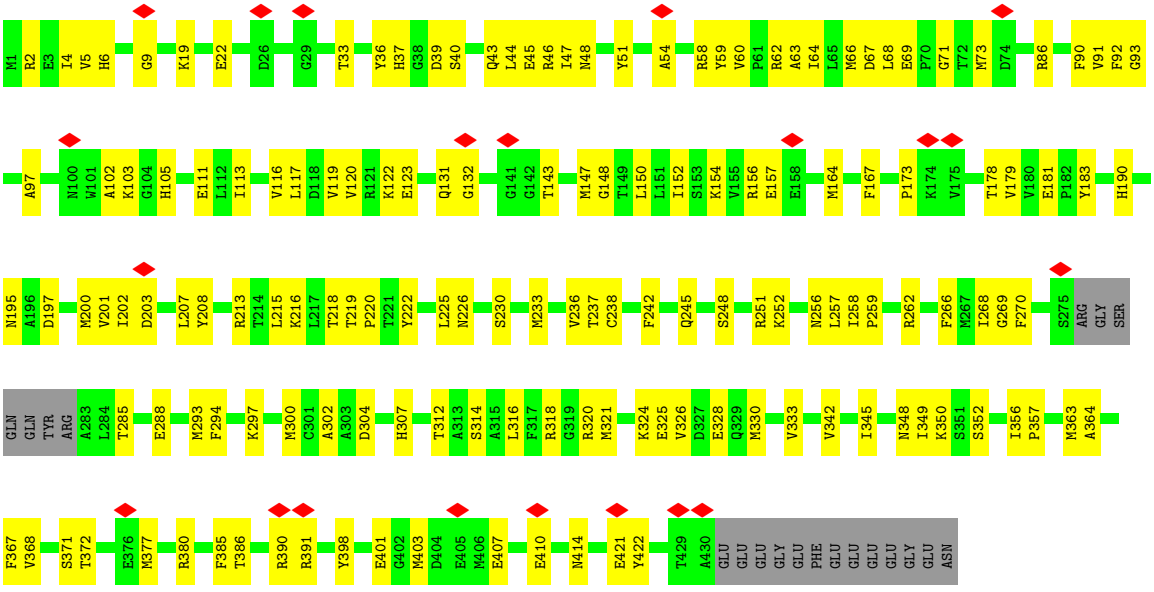




• Molecule 46: Tubulin beta chain

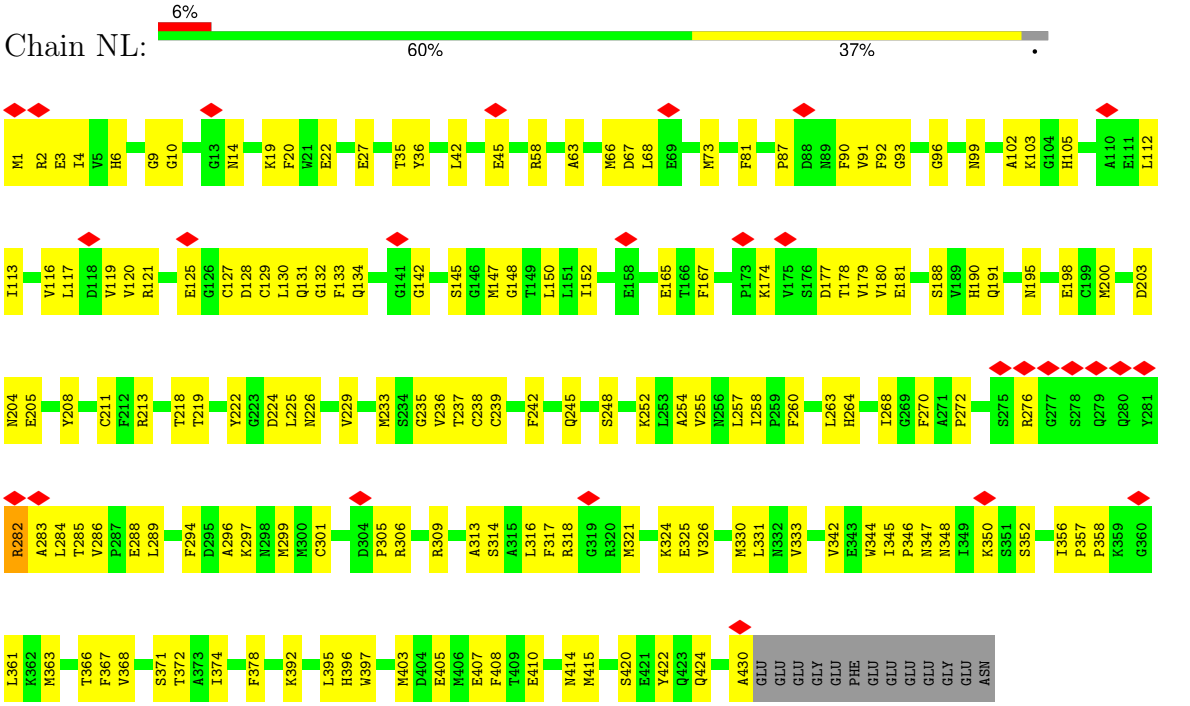
Chain NJ:





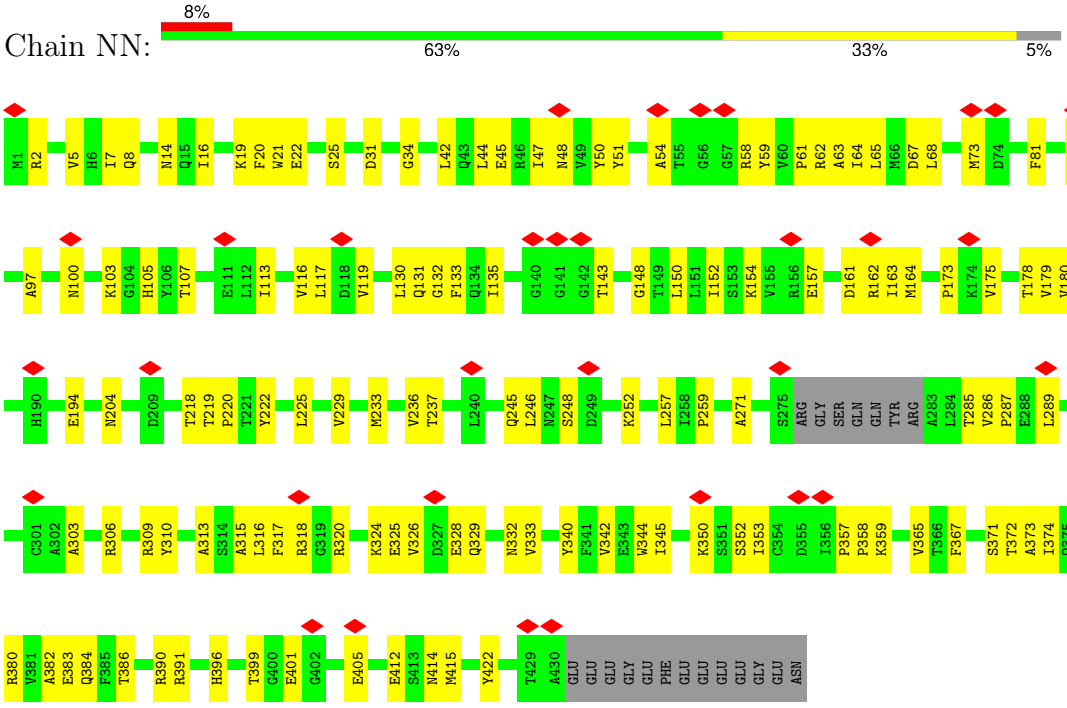
• Molecule 46: Tubulin beta chain

Chain NL:



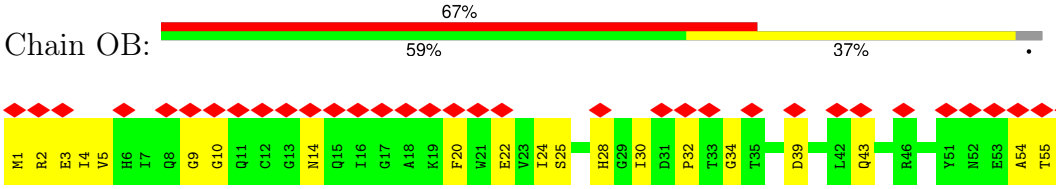
• Molecule 46: Tubulin beta chain

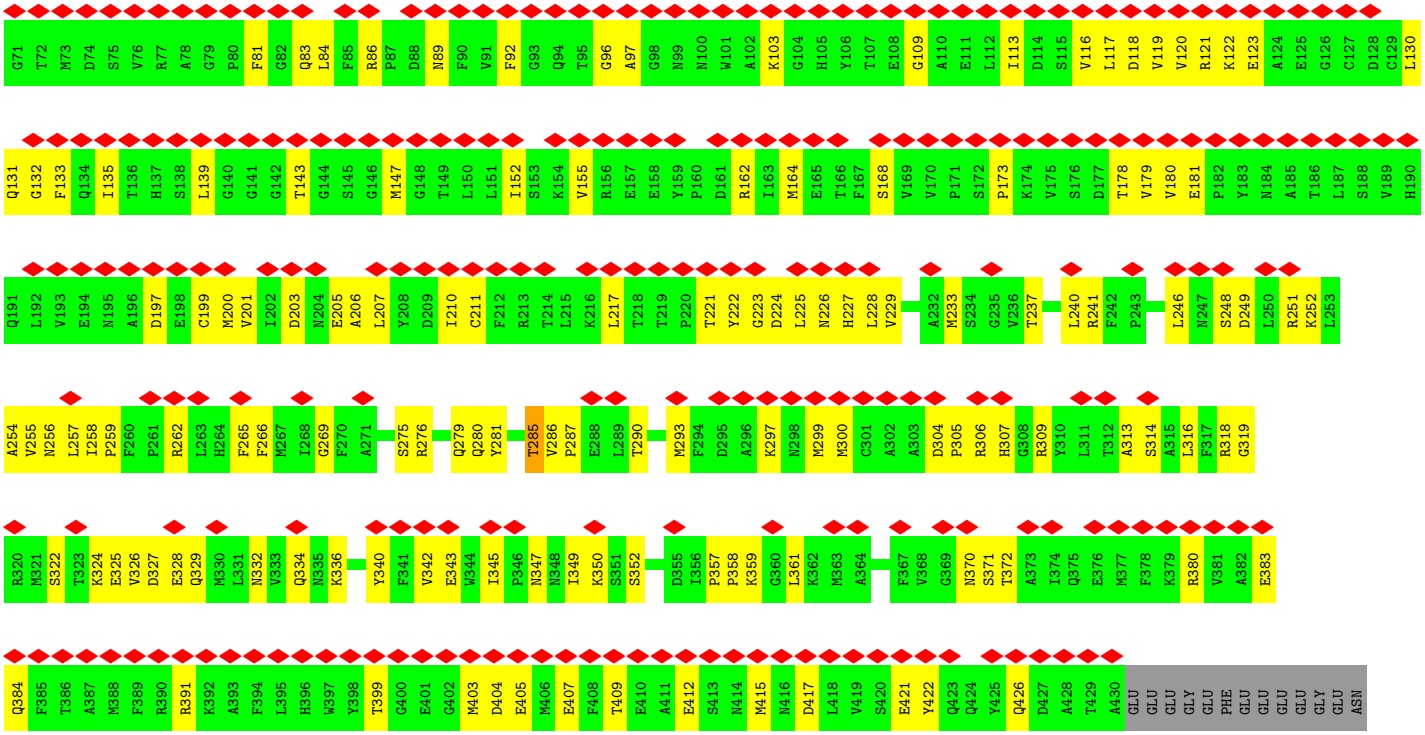
Chain NN:



• Molecule 46: Tubulin beta chain

Chain OB:

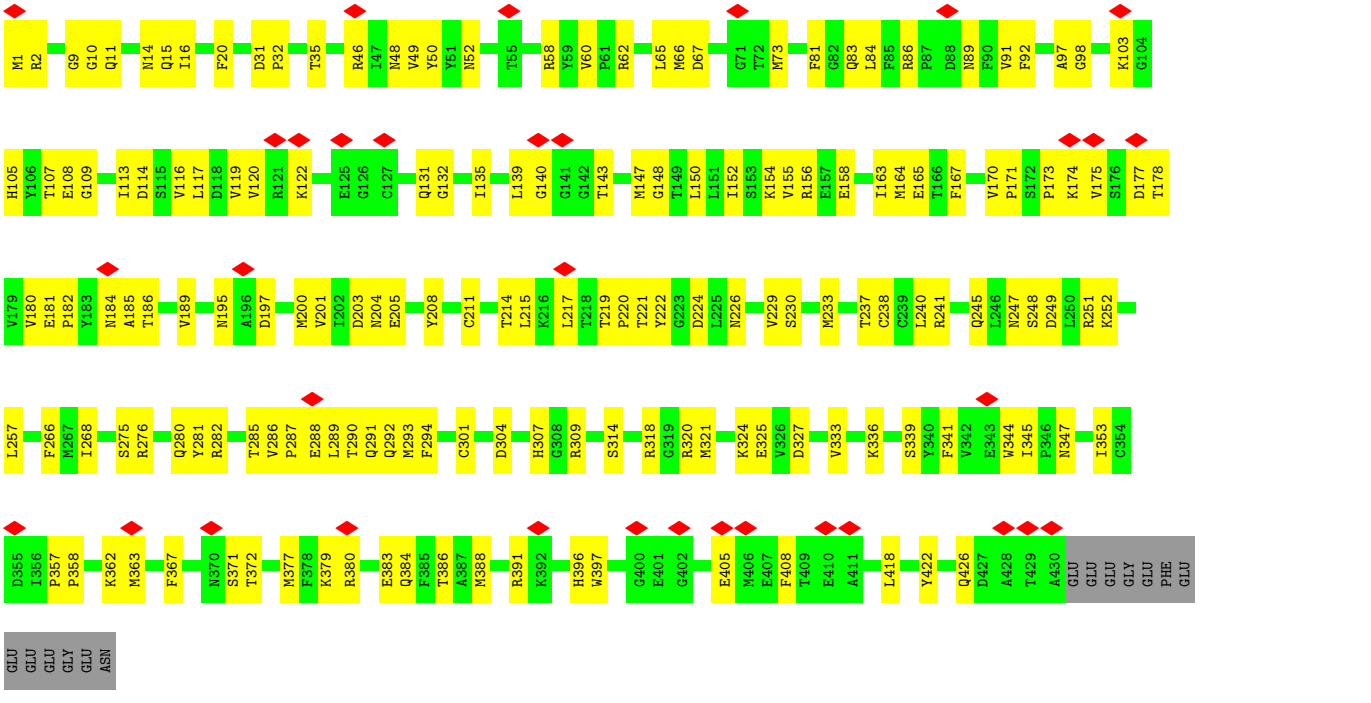




• Molecule 46: Tubulin beta chain

Chain OD:

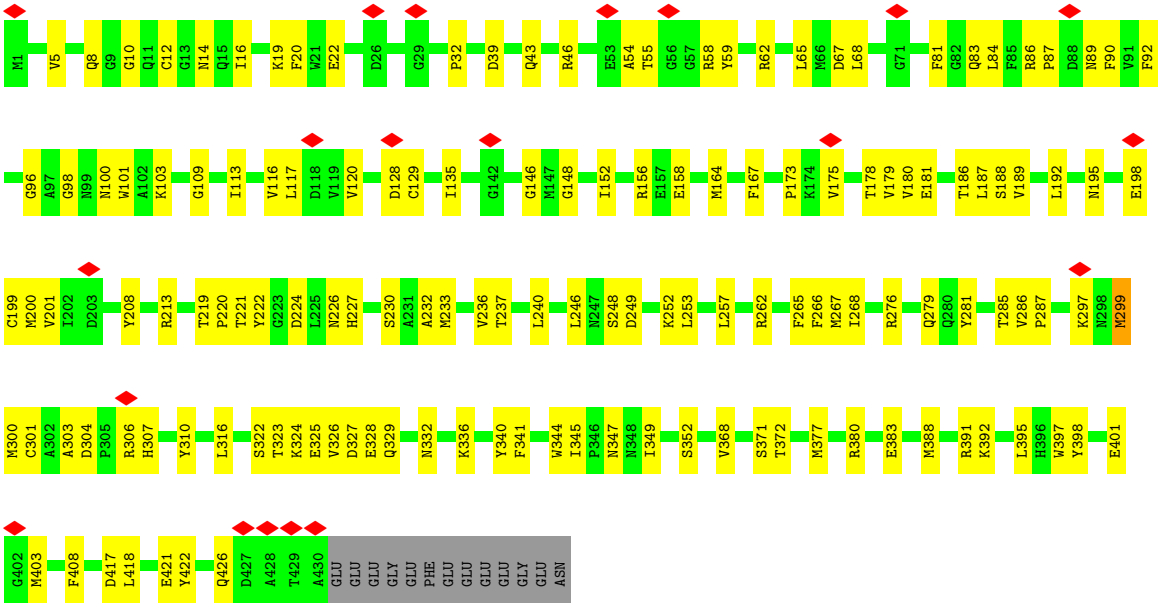




• Molecule 46: Tubulin beta chain

Chain OF:

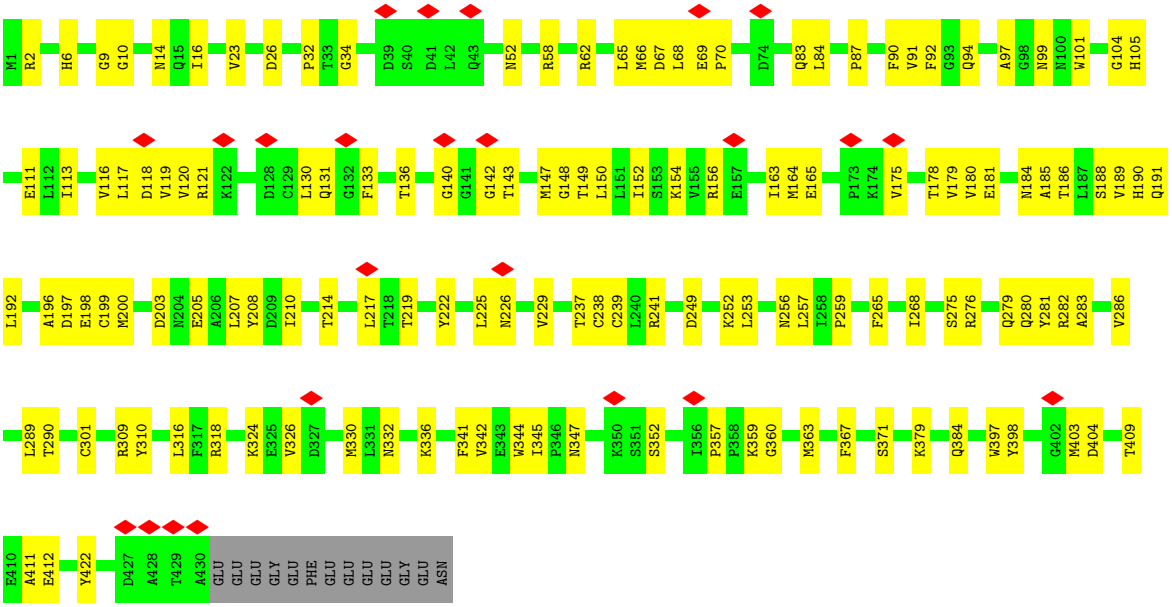




• Molecule 46: Tubulin beta chain

Chain OH:

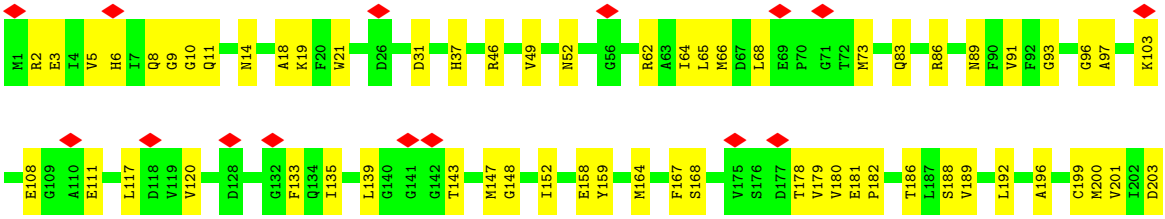


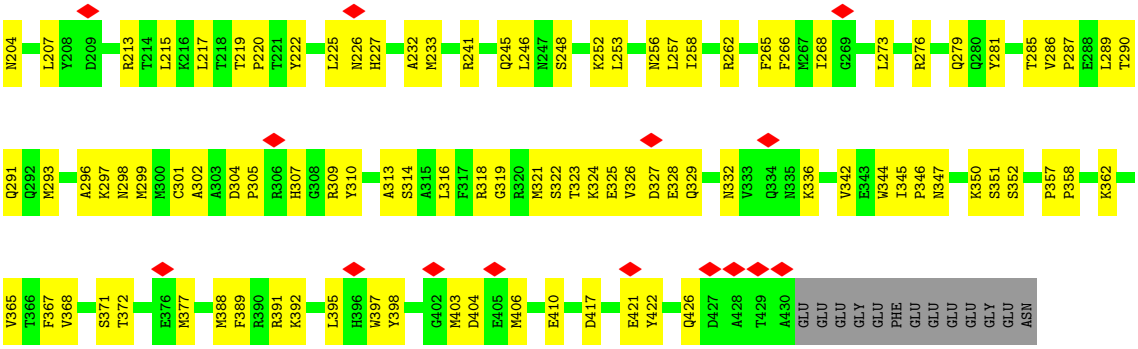


• Molecule 46: Tubulin beta chain

Chain OJ:



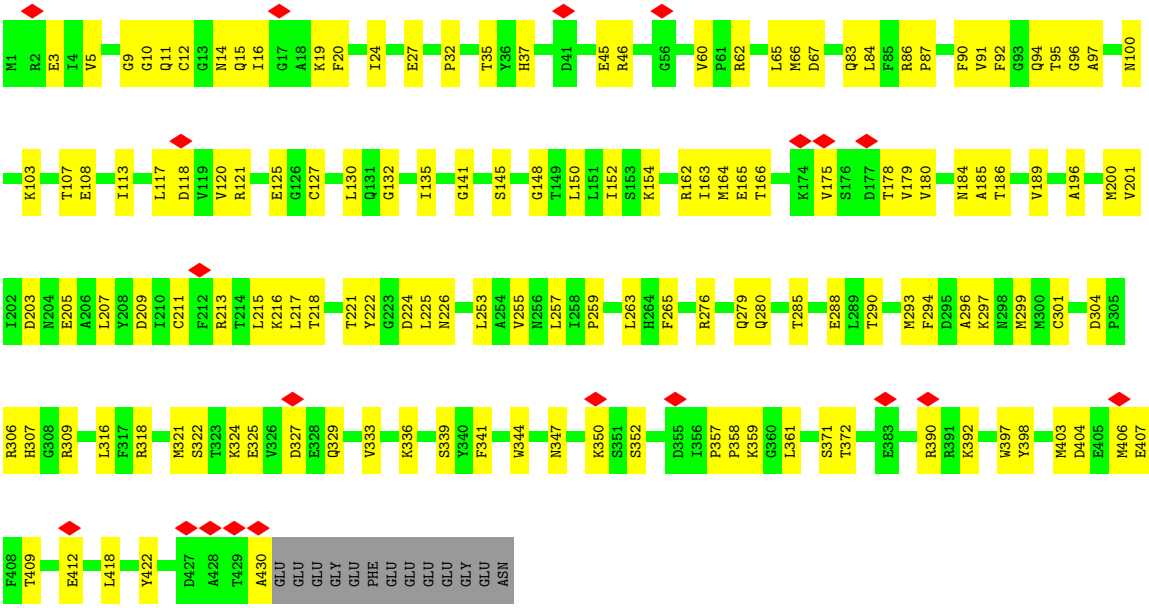




• Molecule 46: Tubulin beta chain

Chain OL:

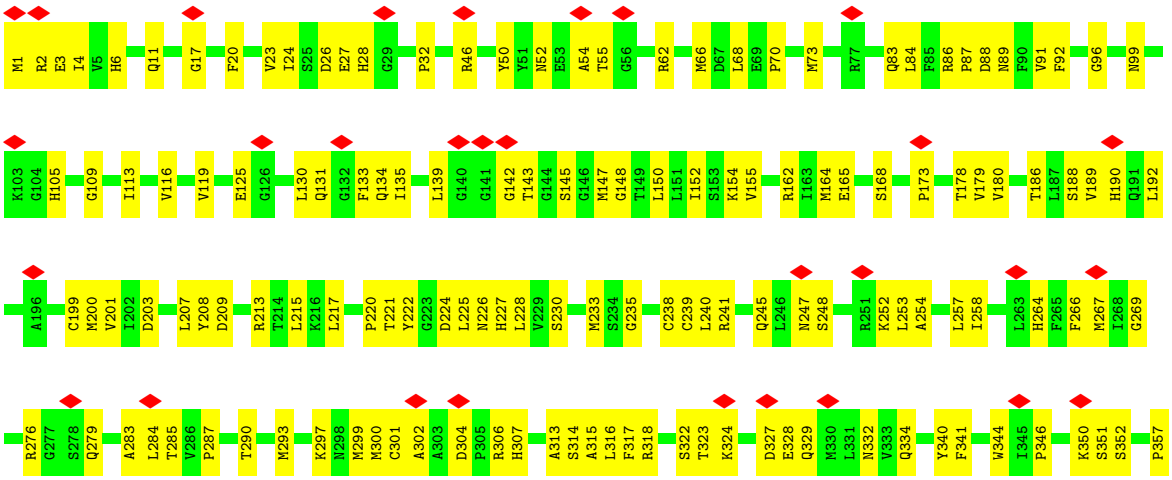


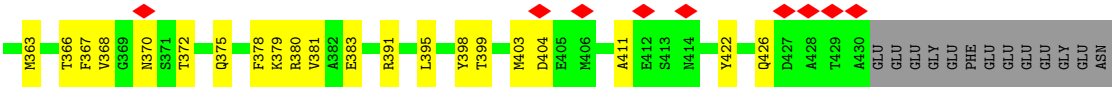


• Molecule 46: Tubulin beta chain

Chain ON:



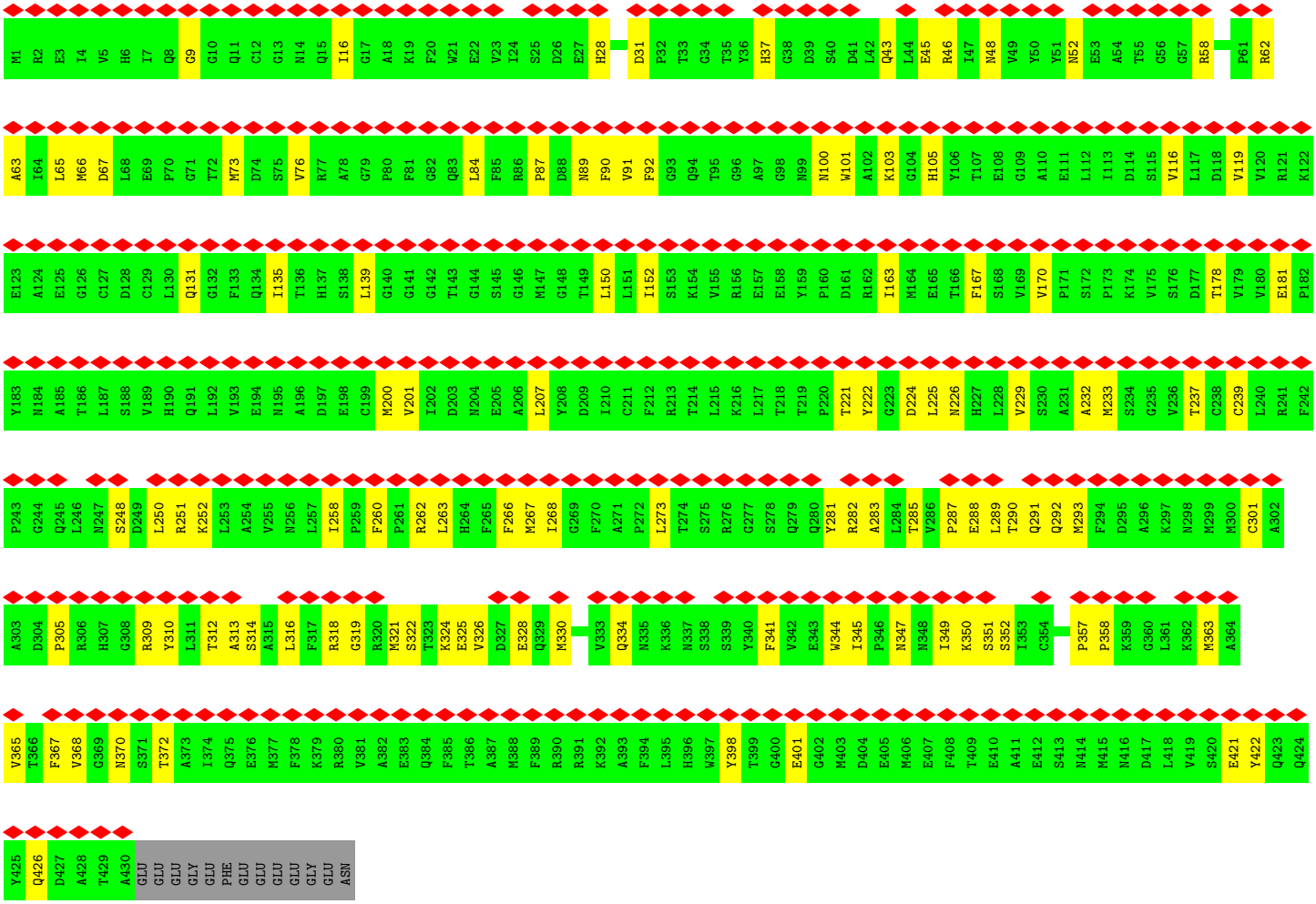




• Molecule 46: Tubulin beta chain

Chain PB:

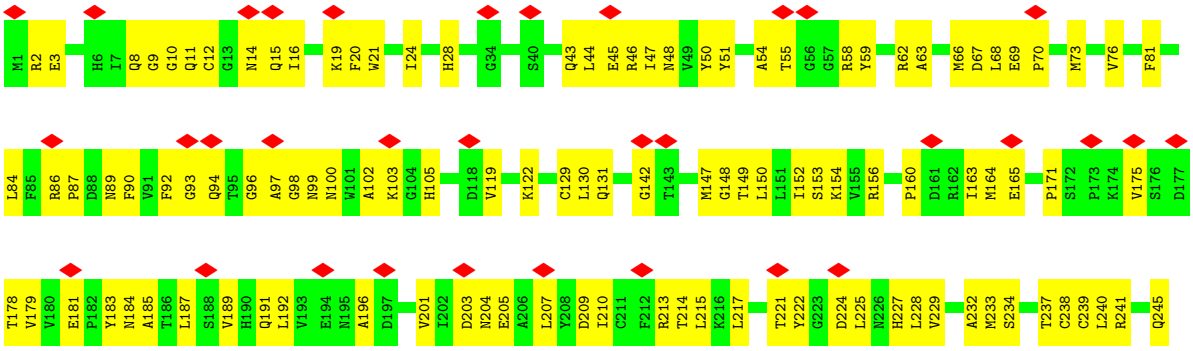


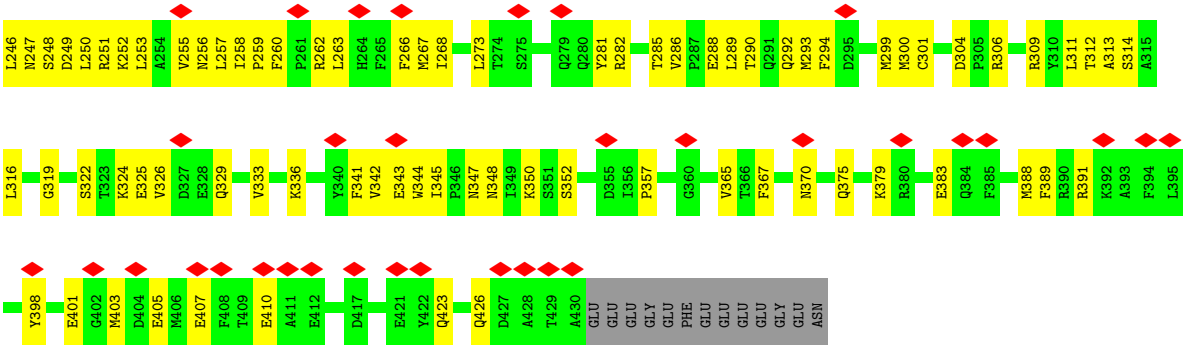


• Molecule 46: Tubulin beta chain

Chain PD:



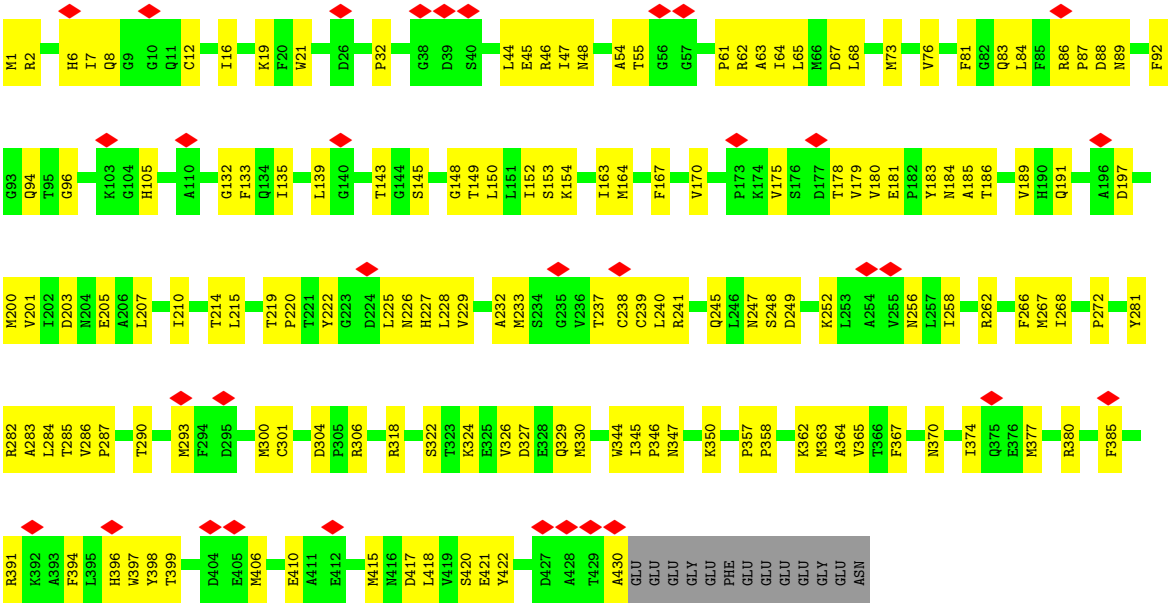




• Molecule 46: Tubulin beta chain

Chain PF:

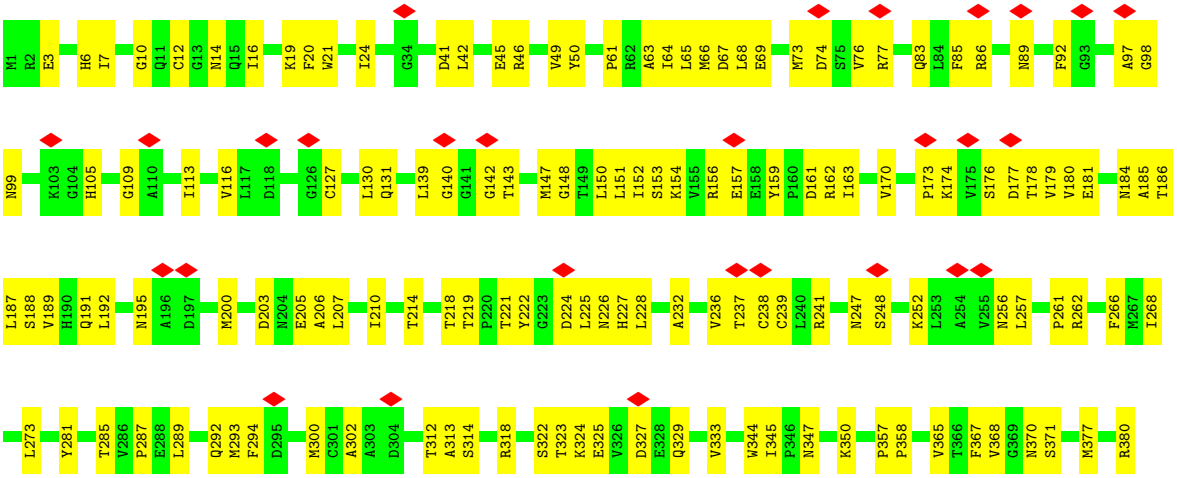


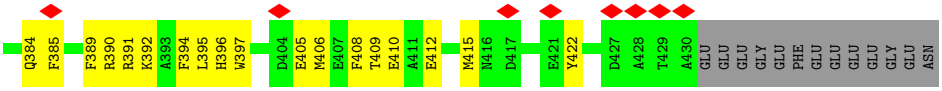


• Molecule 46: Tubulin beta chain

Chain PH:



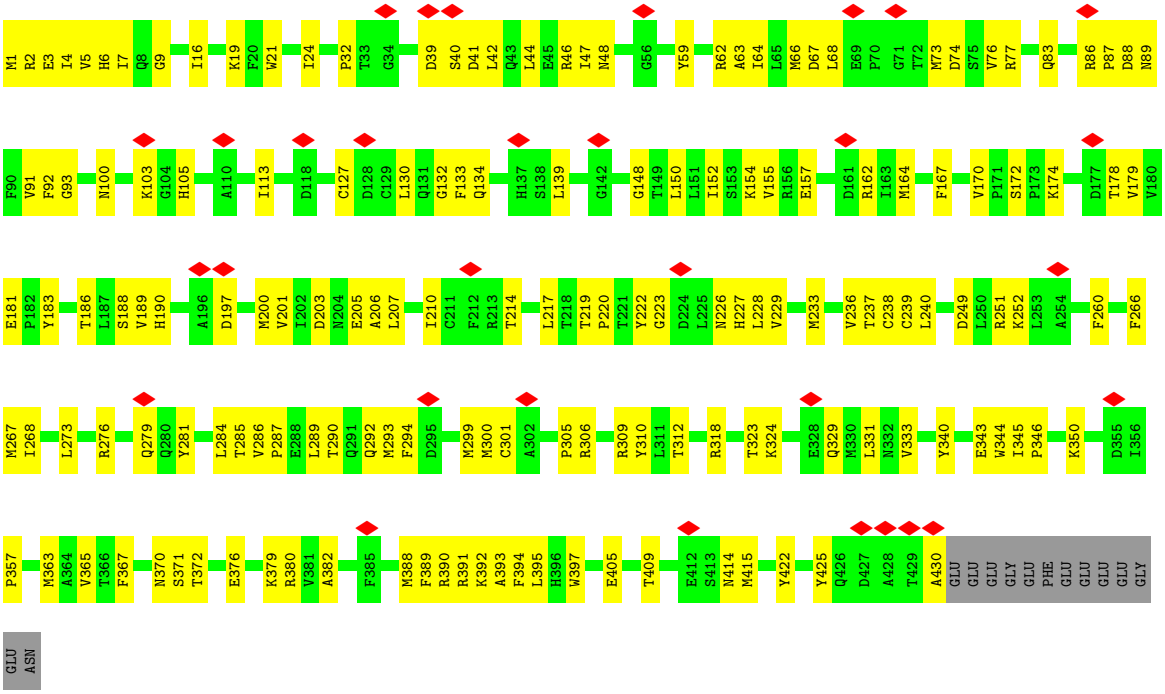




• Molecule 46: Tubulin beta chain

Chain PJ:

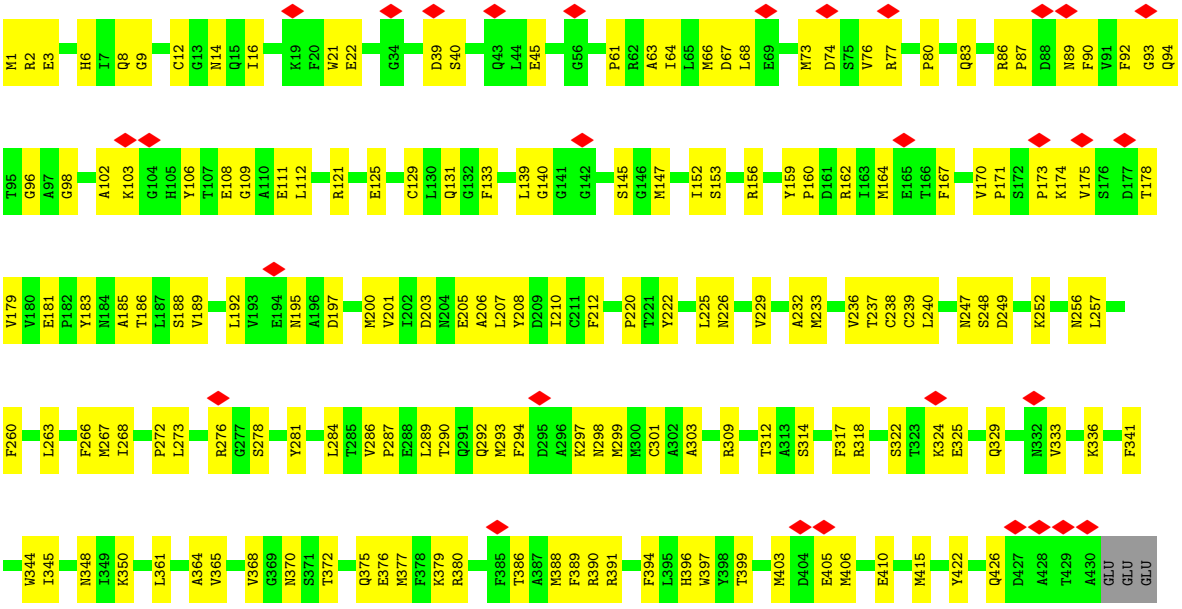




• Molecule 46: Tubulin beta chain

Chain PL:



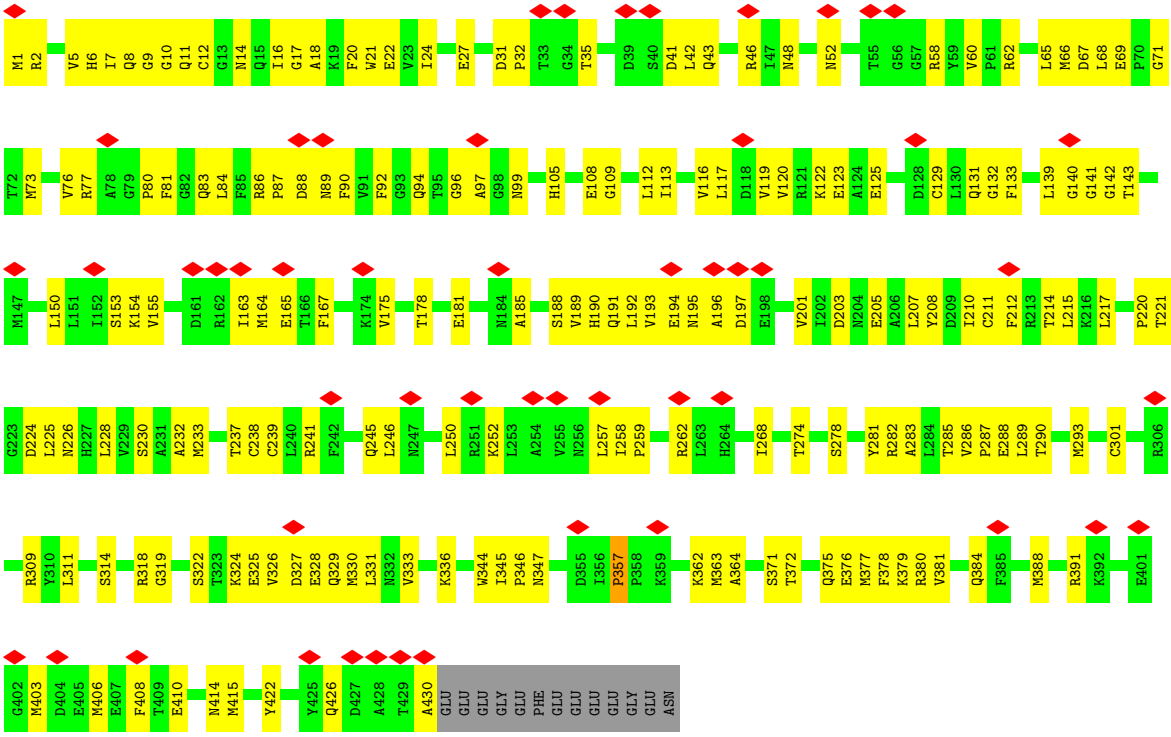




• Molecule 46: Tubulin beta chain

Chain PN:

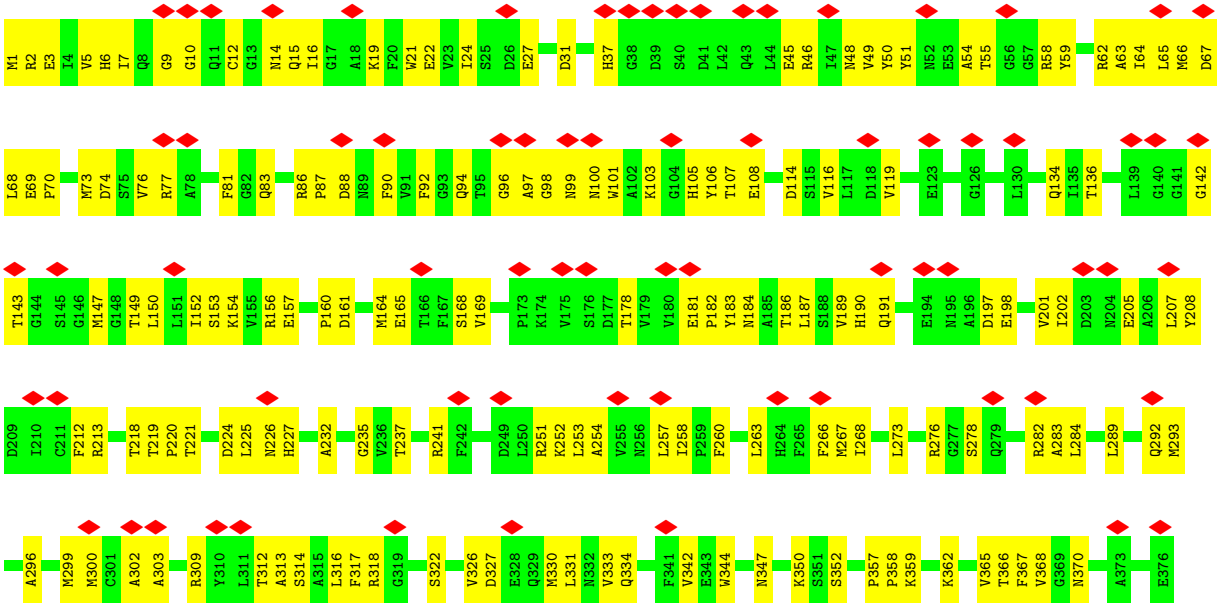


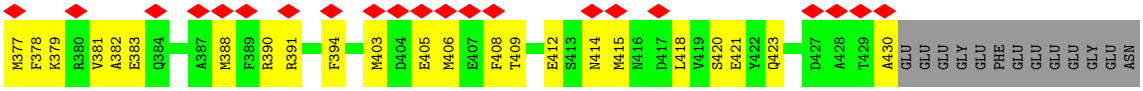


• Molecule 46: Tubulin beta chain

Chain QB:



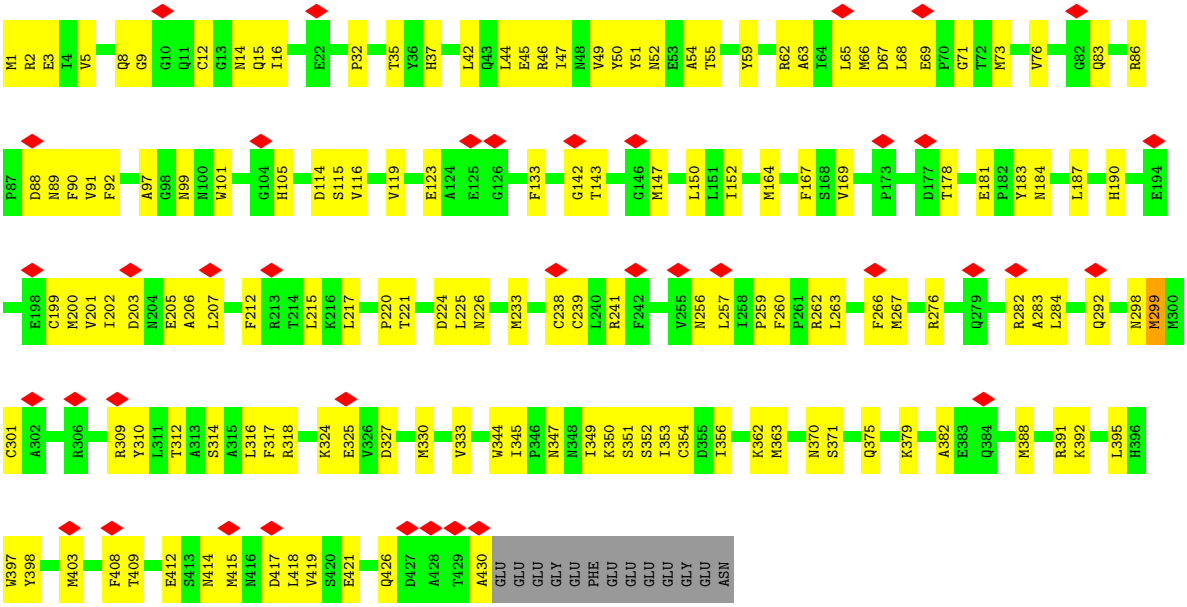




• Molecule 46: Tubulin beta chain

Chain QD:

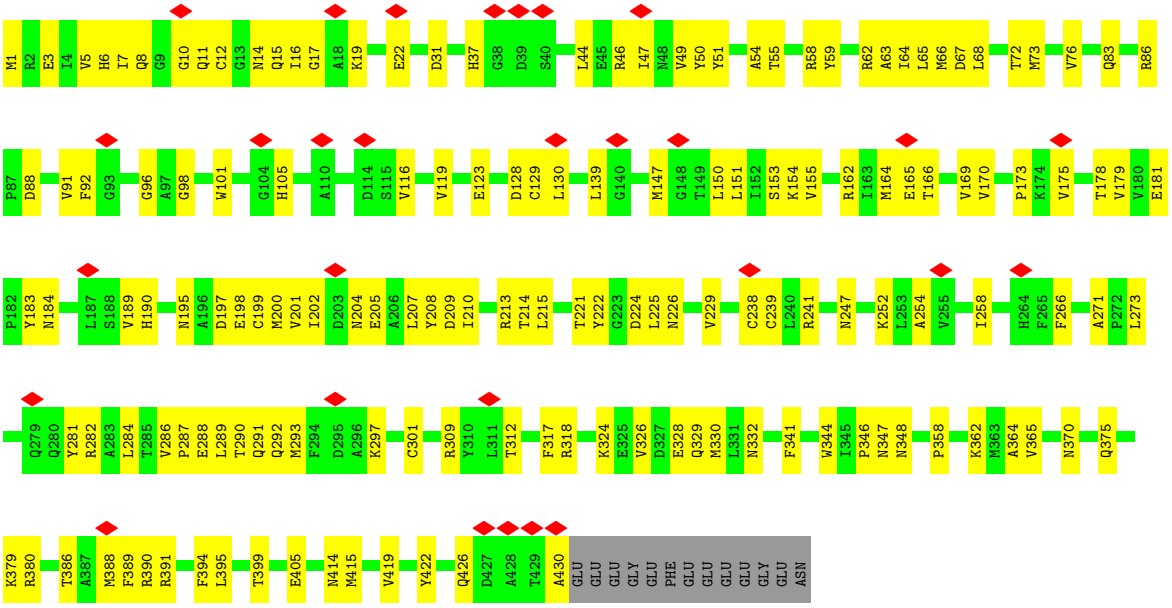




• Molecule 46: Tubulin beta chain

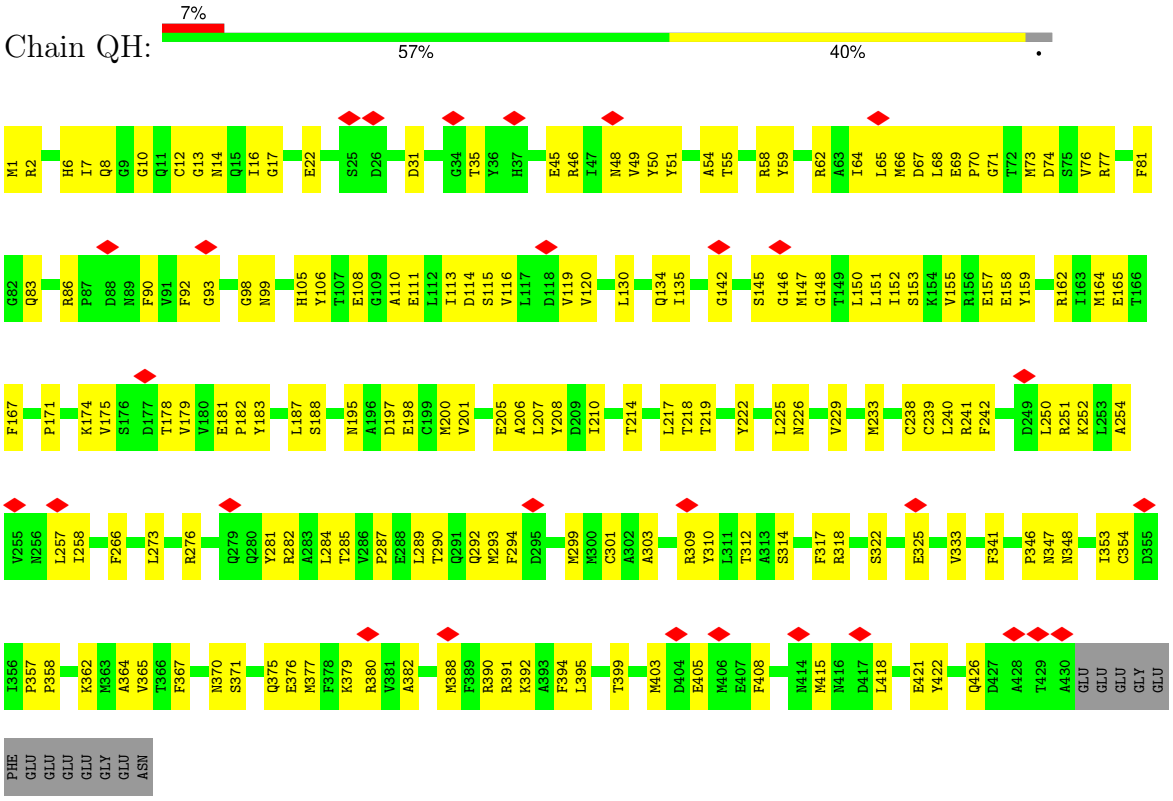
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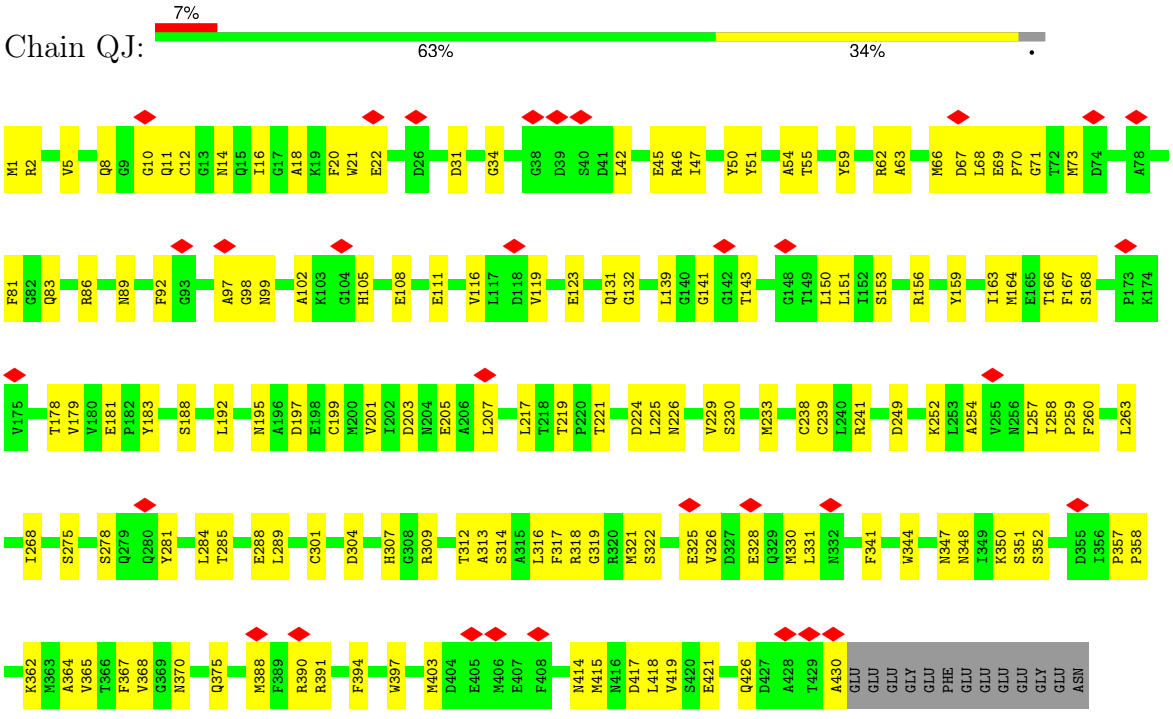
• Molecule 46: Tubulin beta chain

Chain QH:



• Molecule 46: Tubulin beta chain

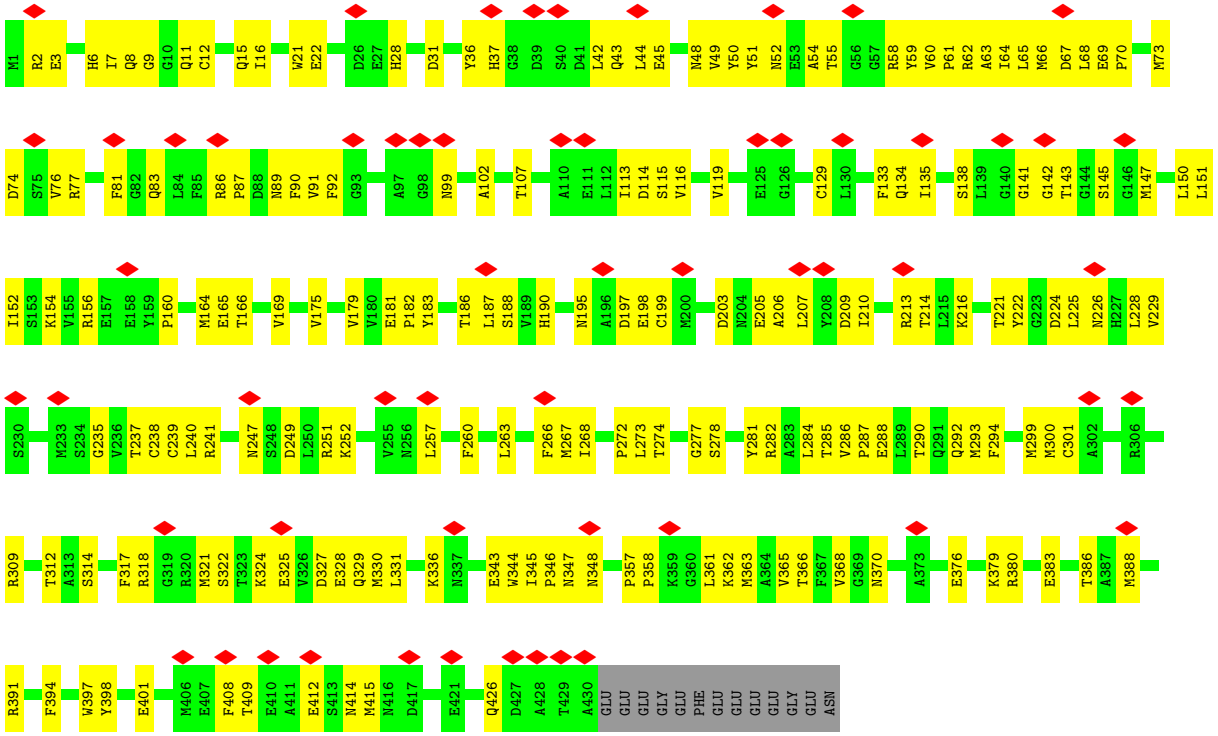
Chain QJ:



• Molecule 46: Tubulin beta chain

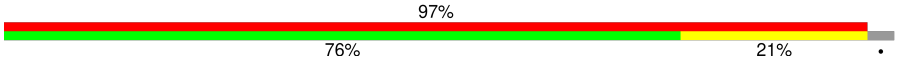
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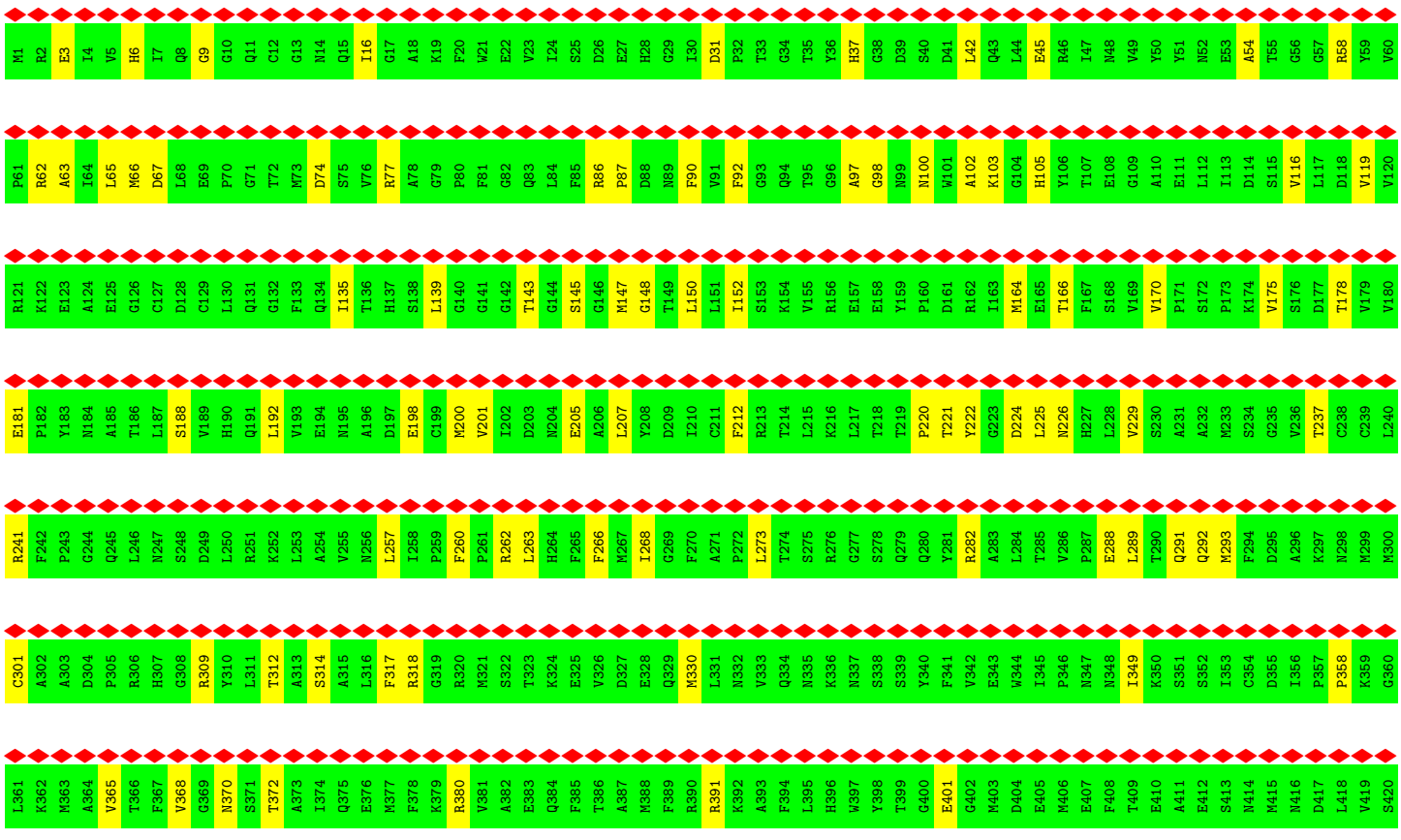


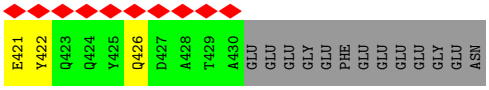


• Molecule 46: Tubulin beta chain

Chain QN:



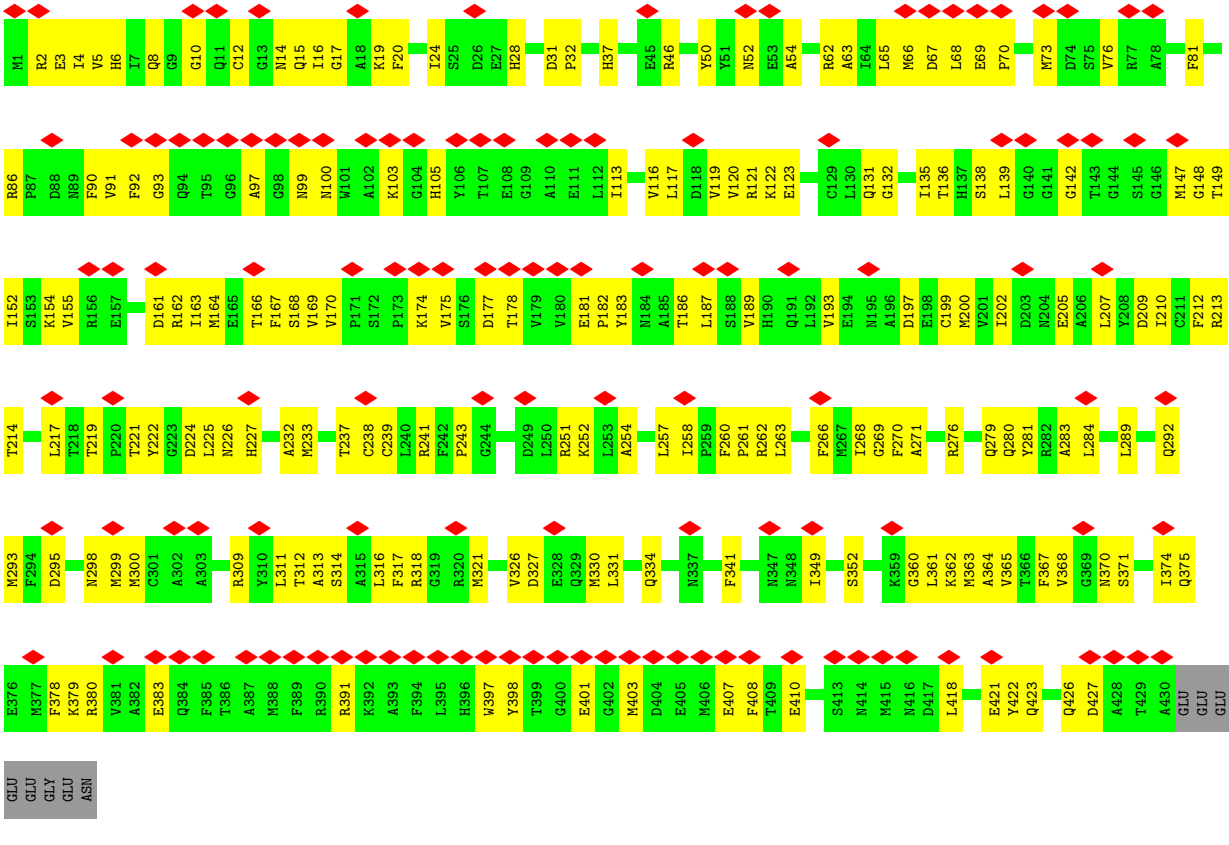




• Molecule 46: Tubulin beta chain

Chain RB:

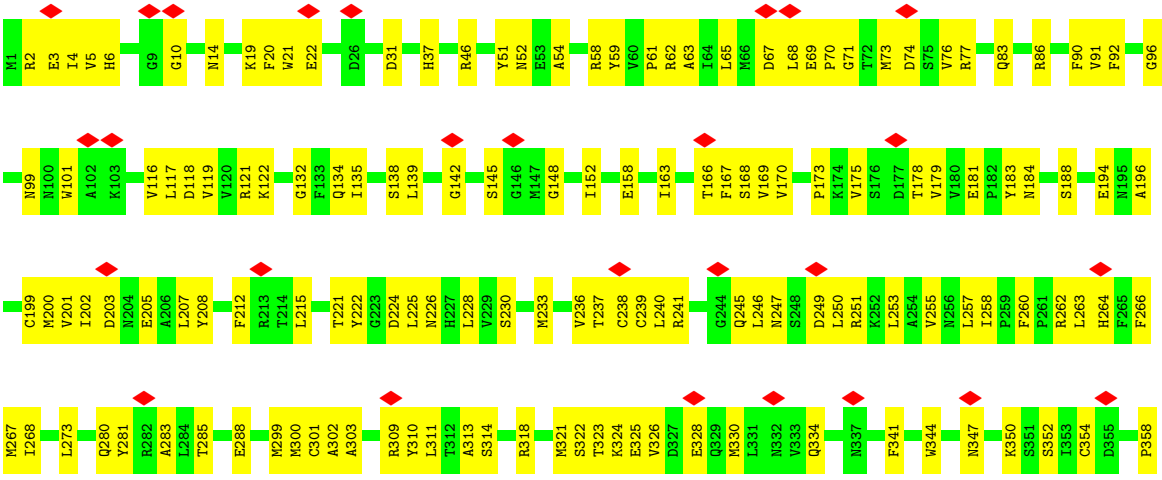


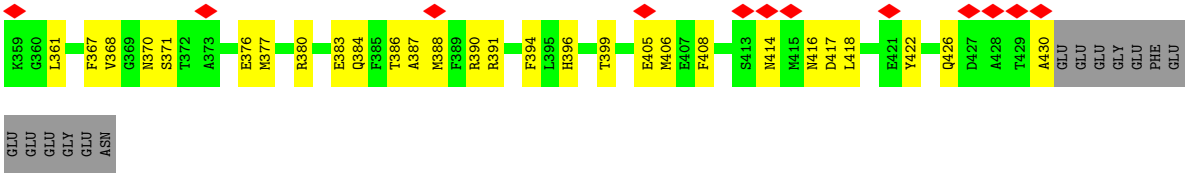


• Molecule 46: Tubulin beta chain

Chain RD:



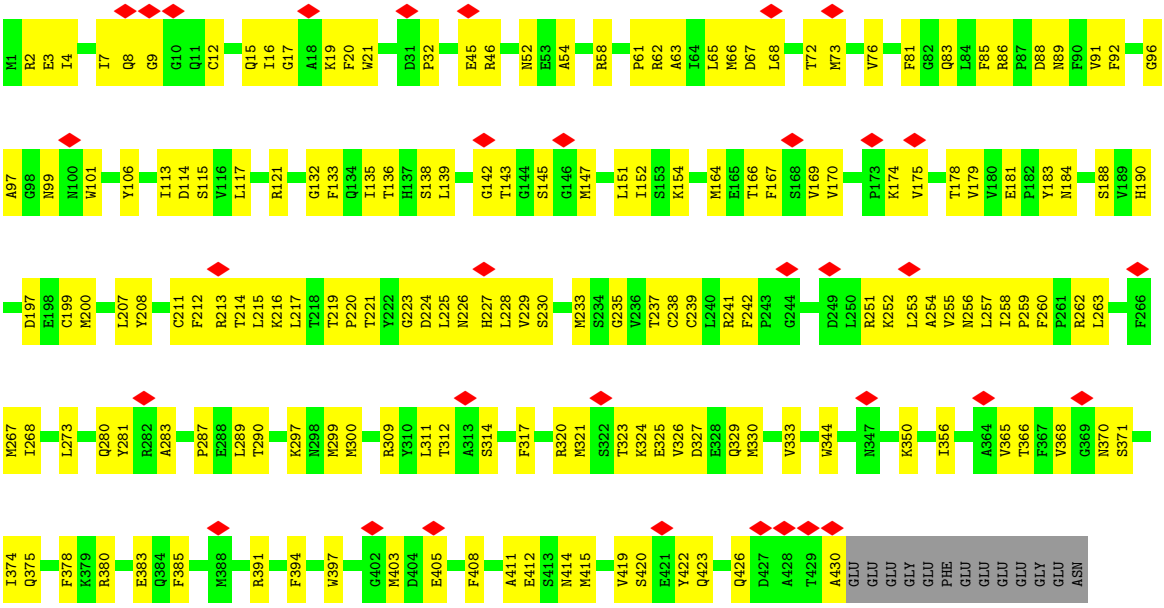




• Molecule 46: Tubulin beta chain

Chain RF:

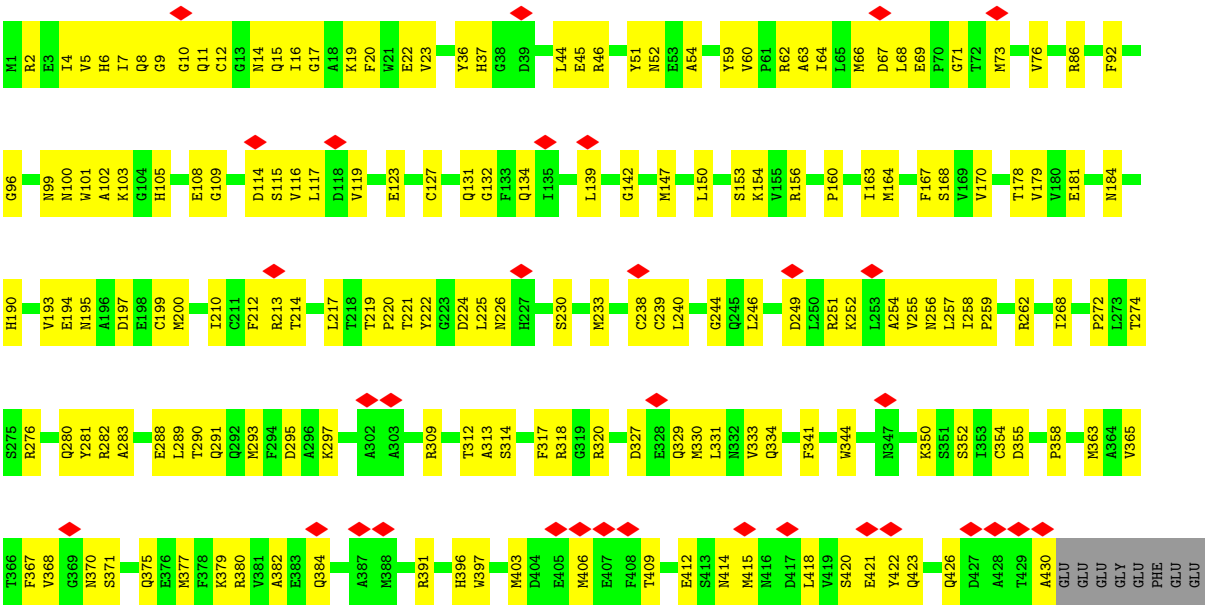




• Molecule 46: Tubulin beta chain

Chain RH:



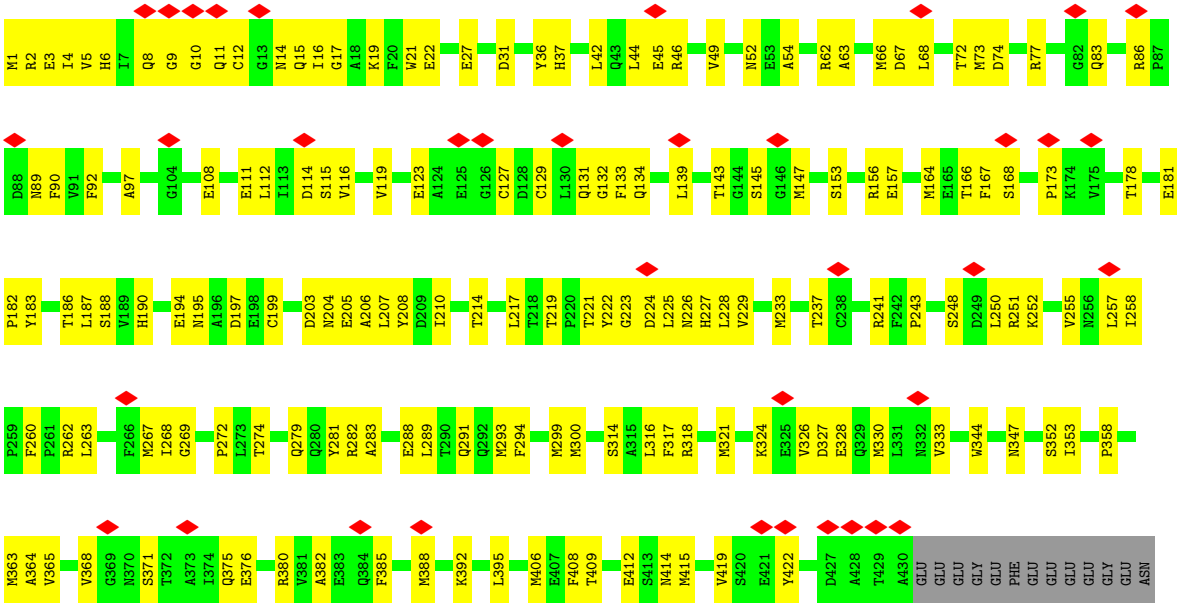




• Molecule 46: Tubulin beta chain

Chain RJ:

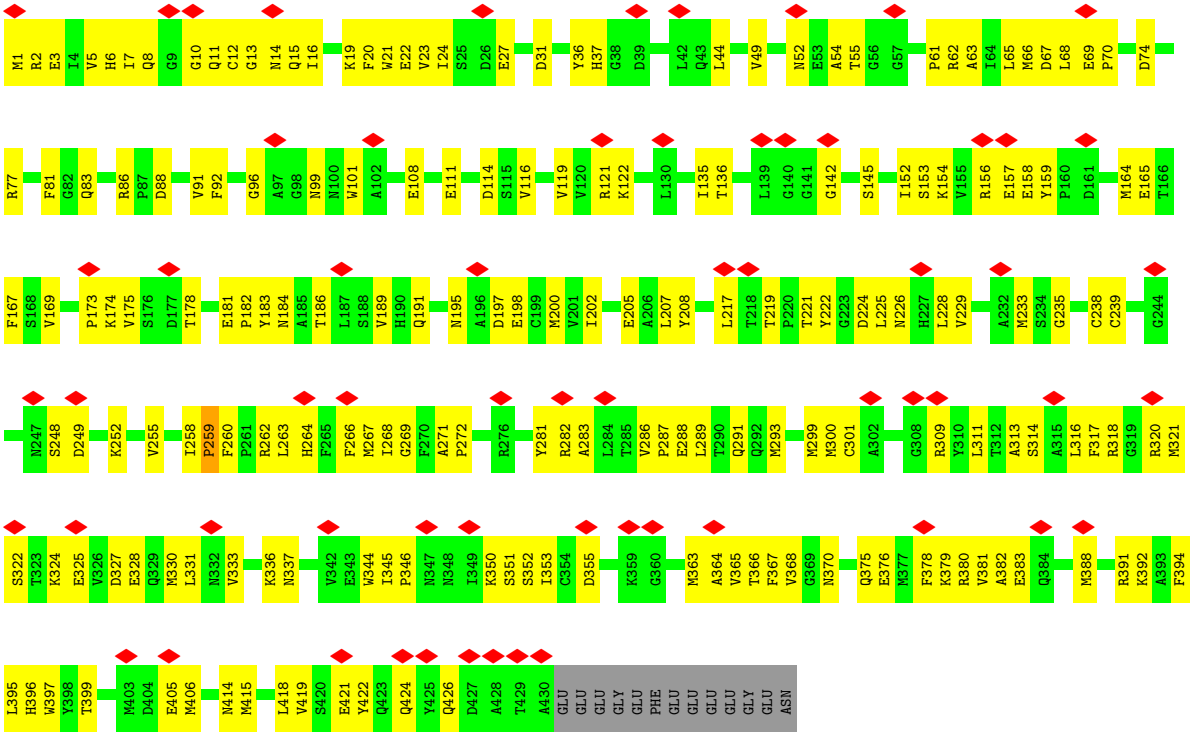




• Molecule 46: Tubulin beta chain

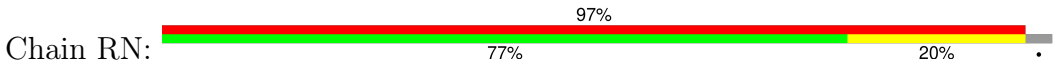
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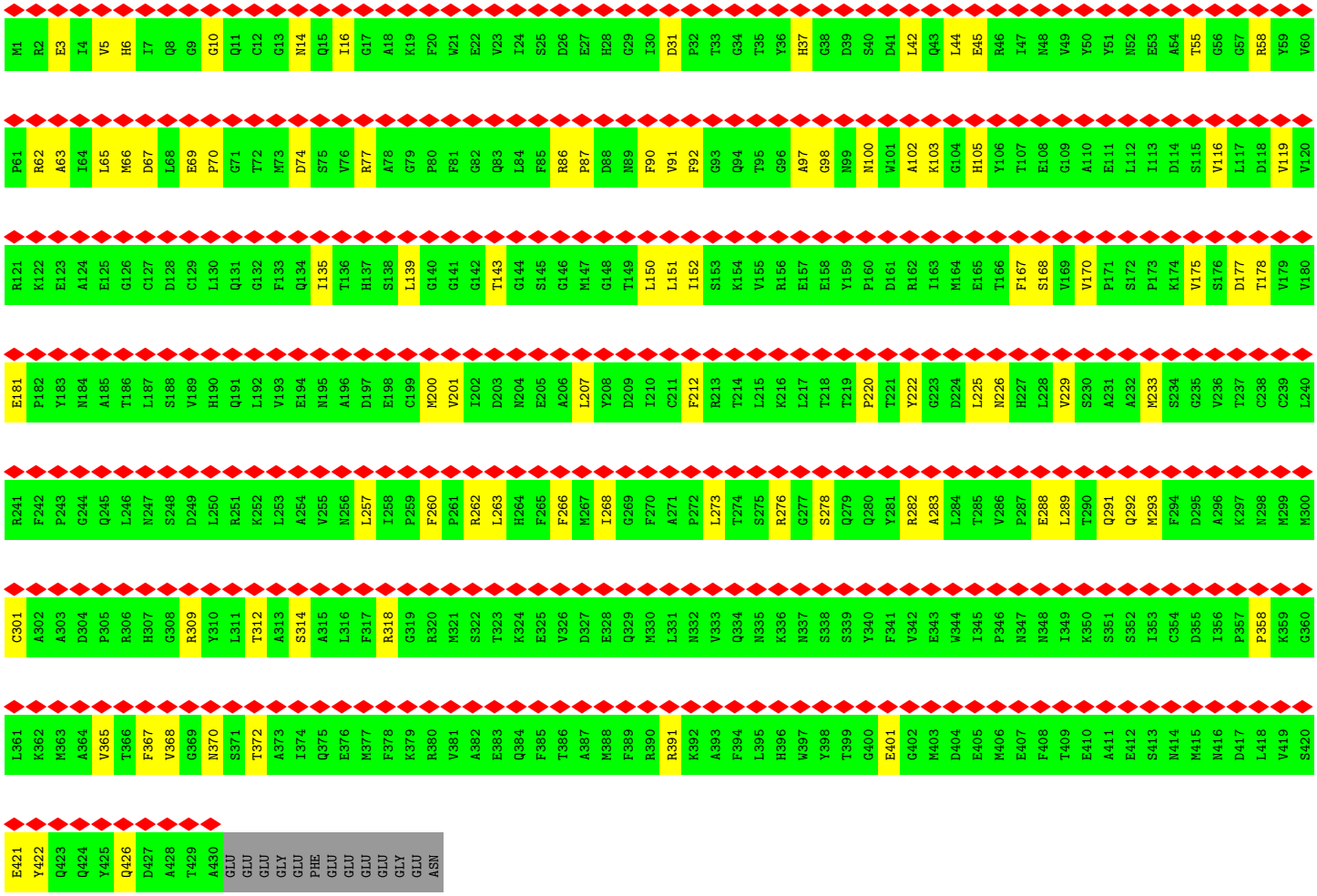




• Molecule 46: Tubulin beta chain

Chain RN:

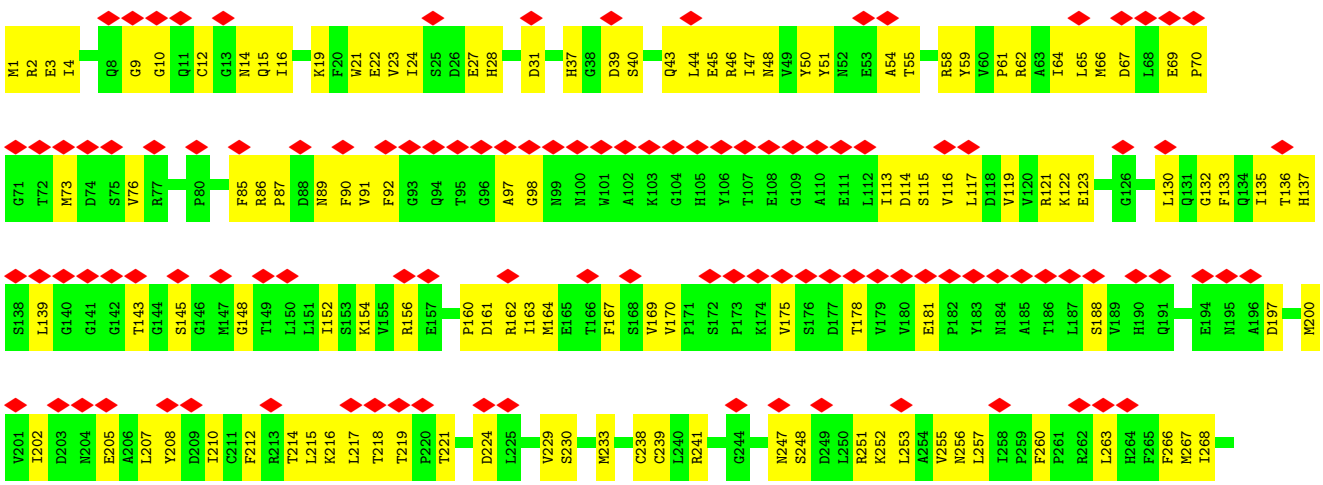


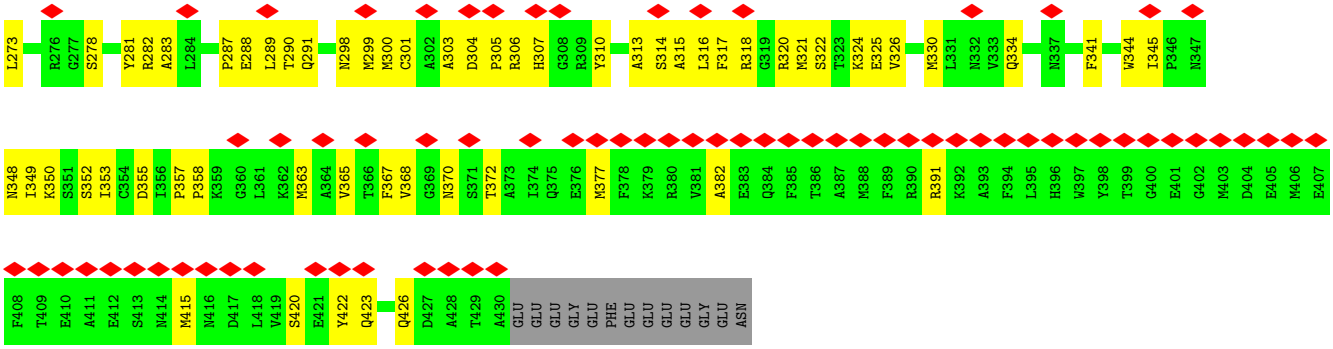


• Molecule 46: Tubulin beta chain

Chain SB:



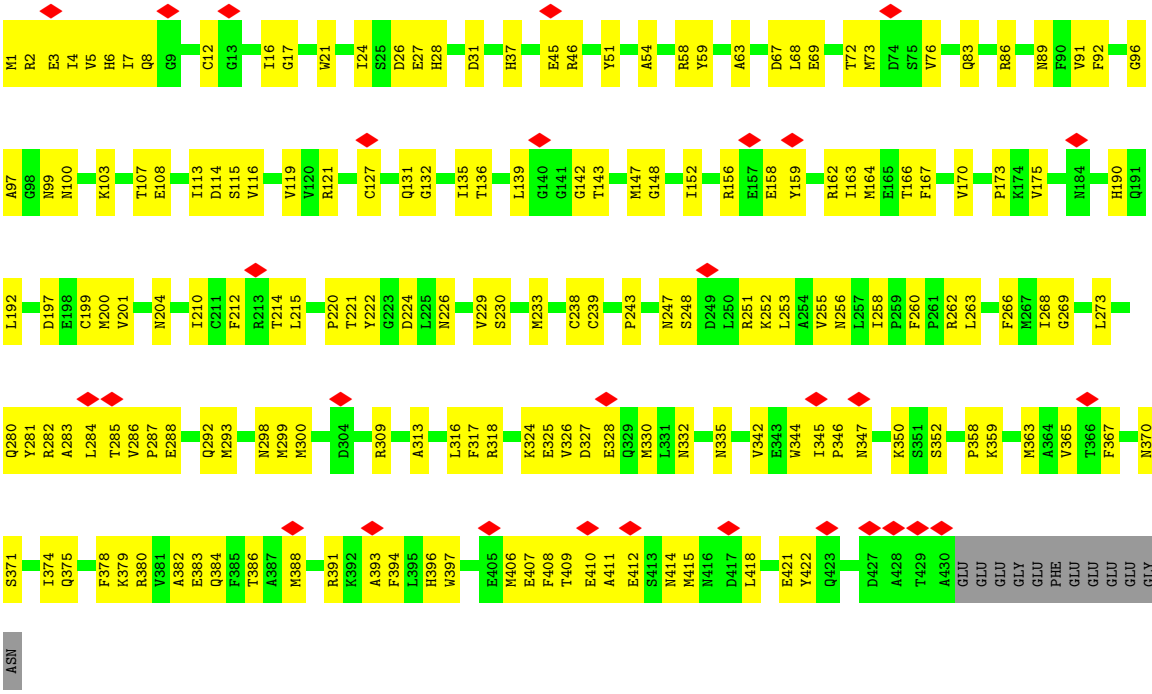




• Molecule 46: Tubulin beta chain

Chain SD:

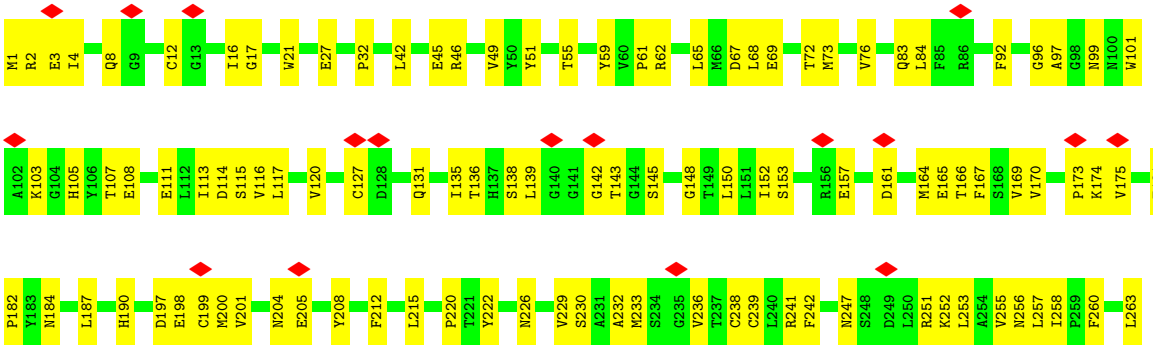


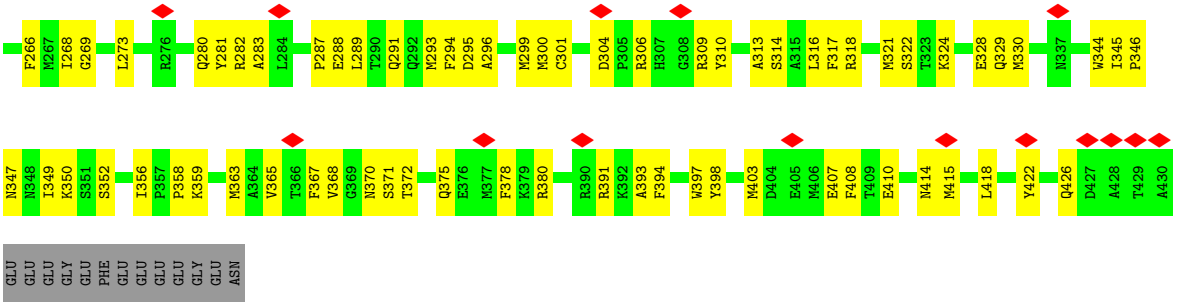


• Molecule 46: Tubulin beta chain

Chain SF:



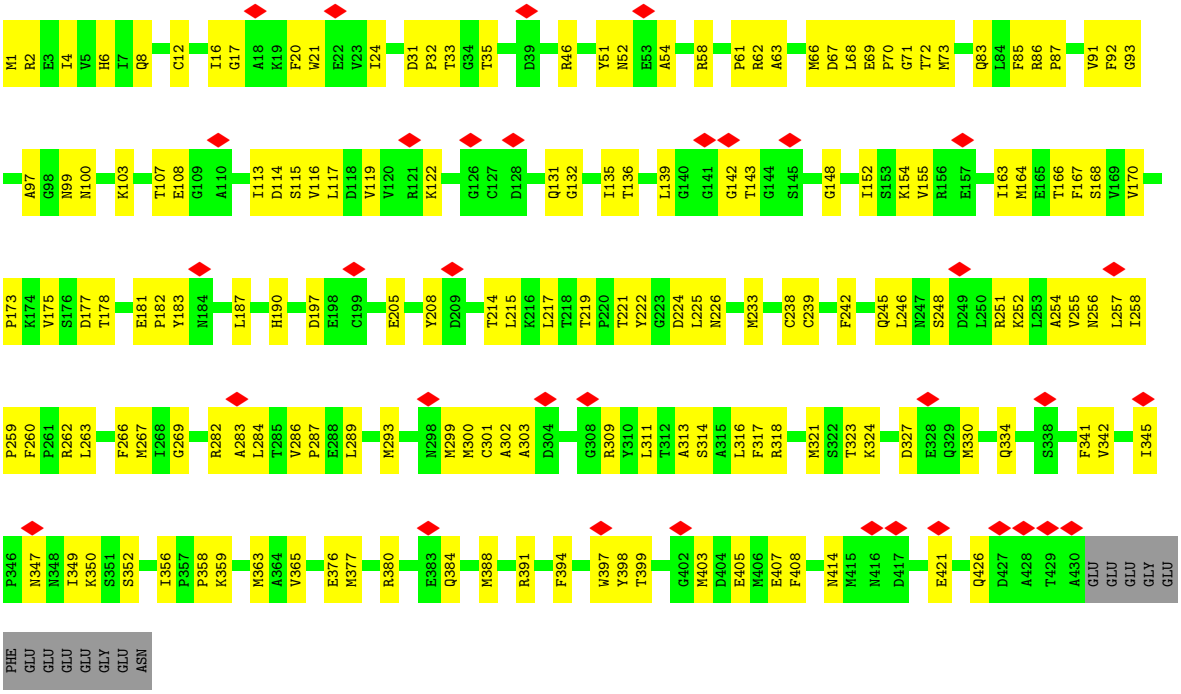




• Molecule 46: Tubulin beta chain

Chain SH:

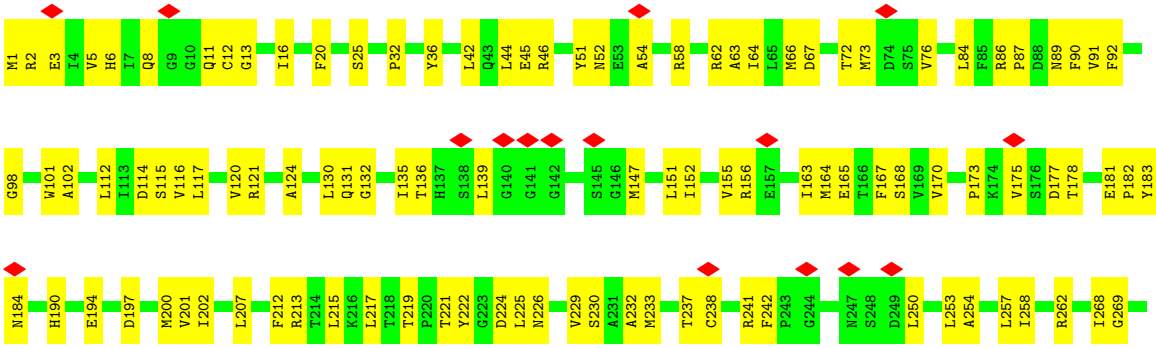


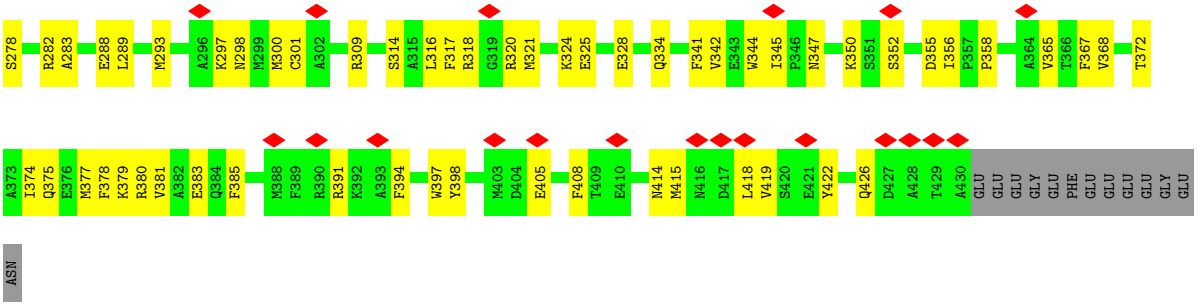


• Molecule 46: Tubulin beta chain

Chain SJ:



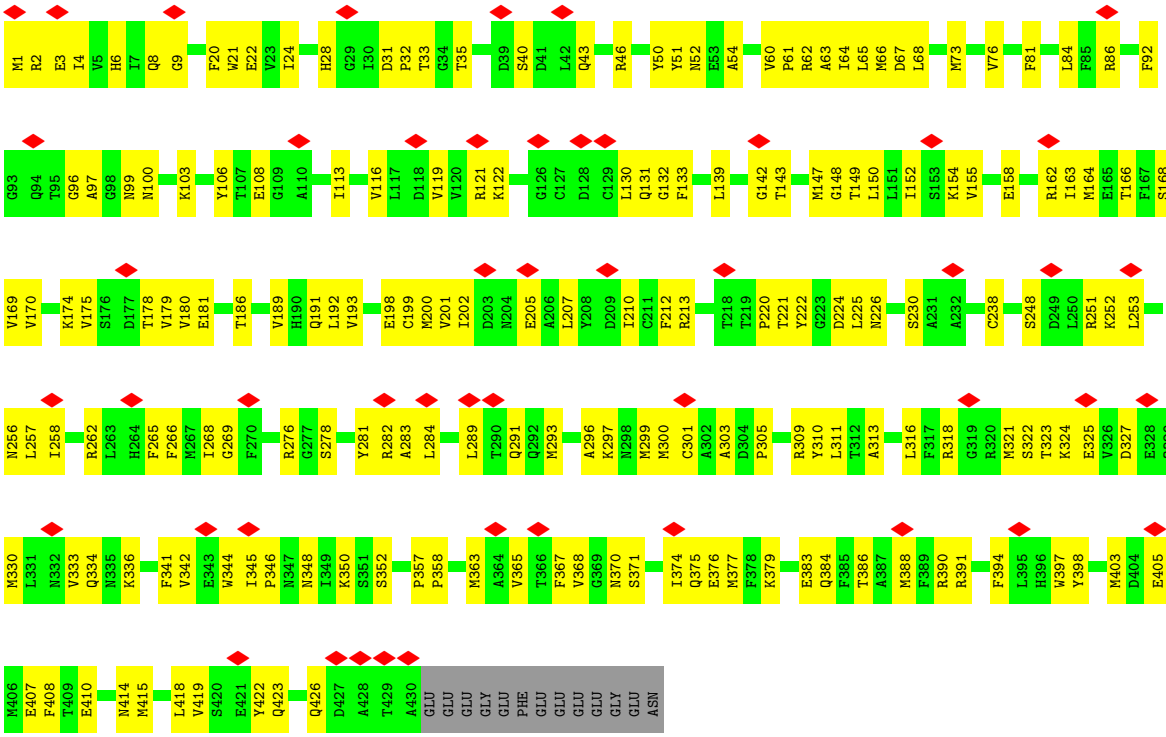




• Molecule 46: Tubulin beta chain

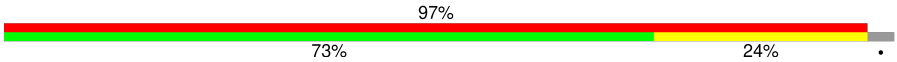
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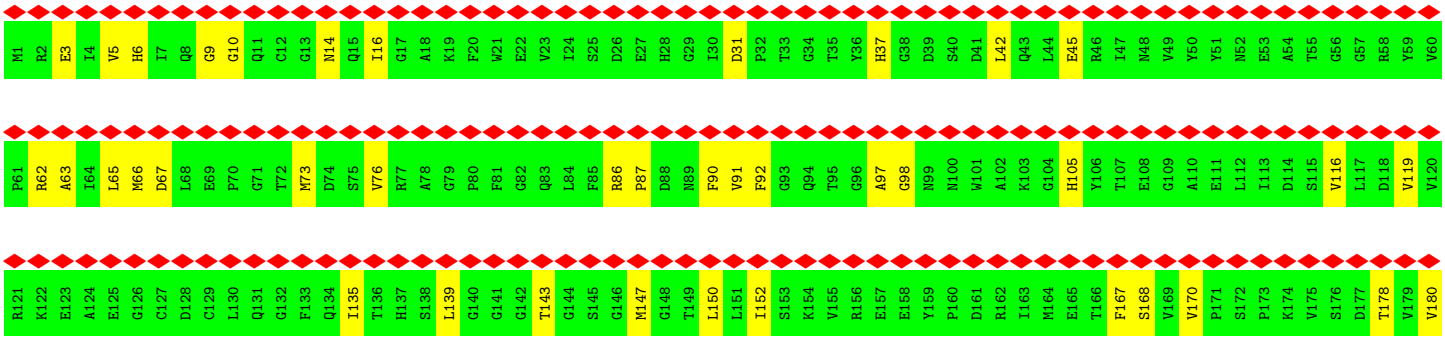


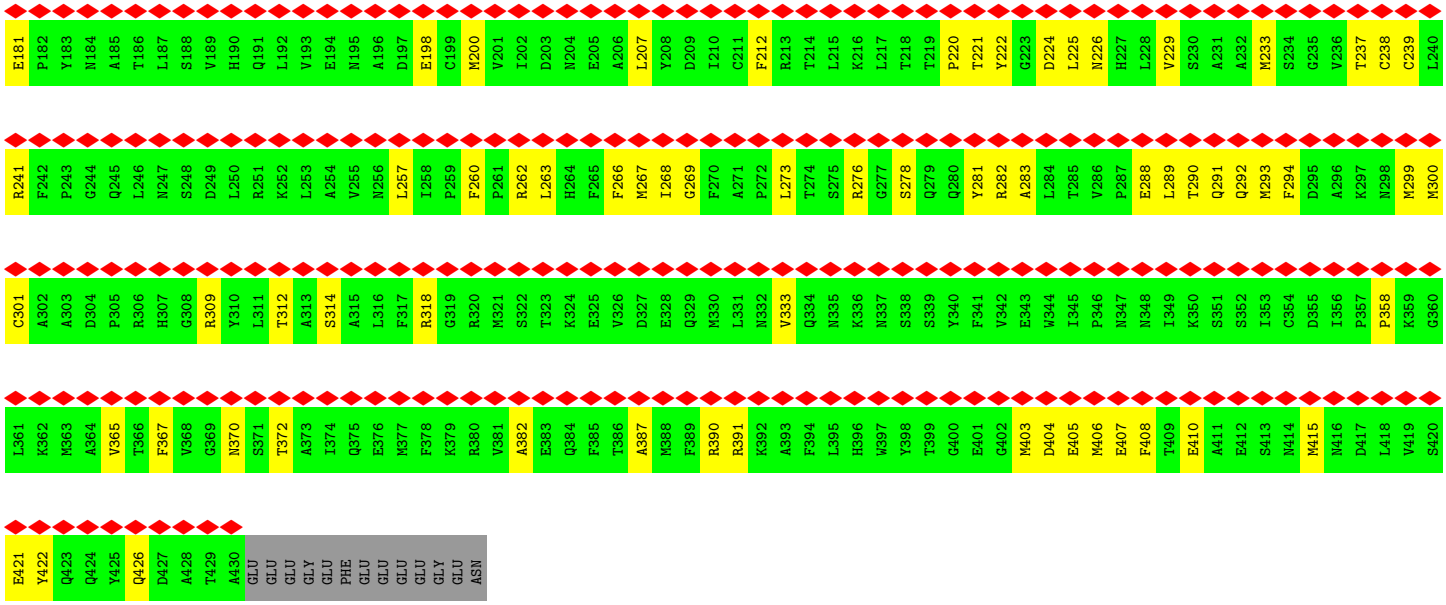


• Molecule 46: Tubulin beta chain

Chain SN:



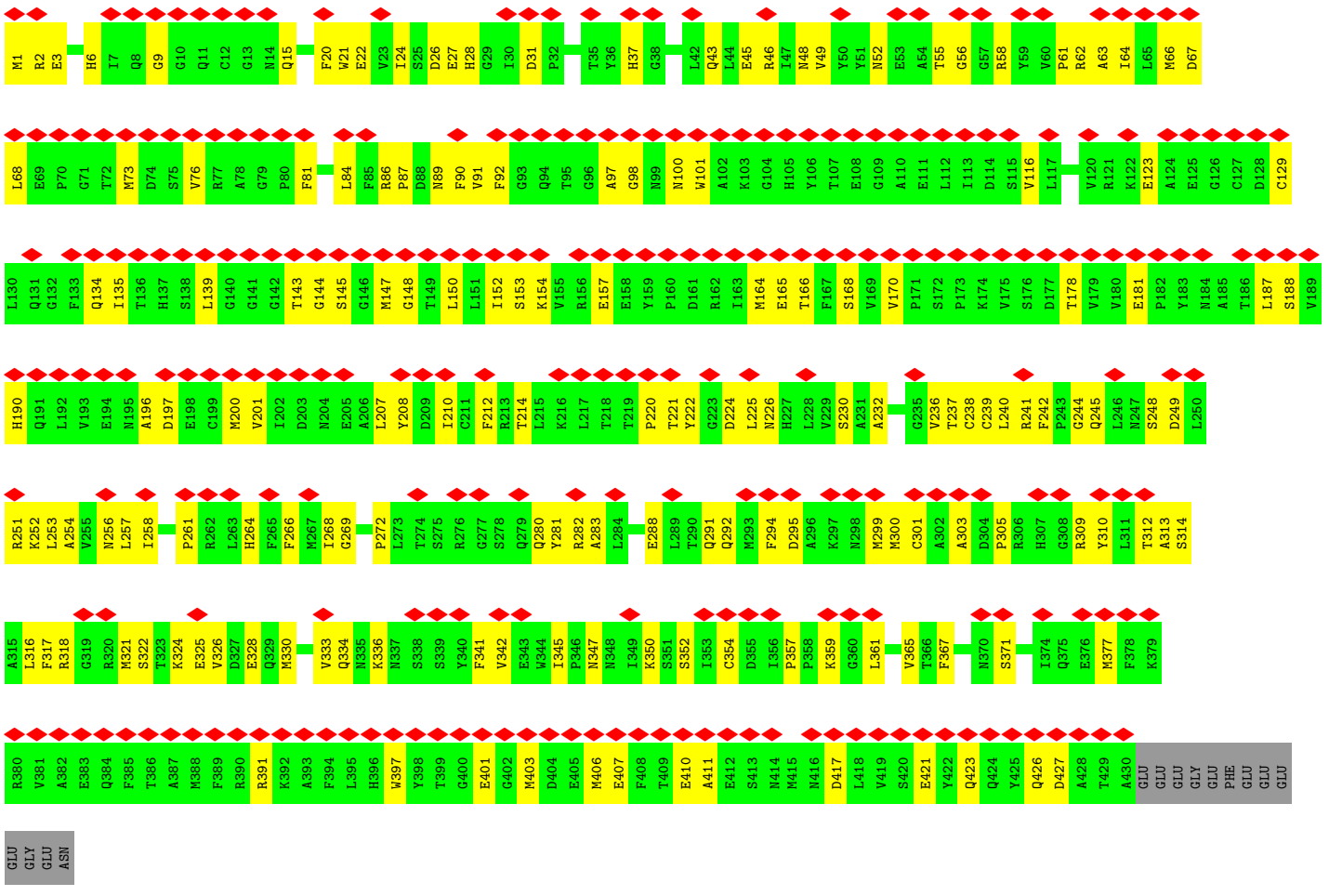




- Molecule 46: Tubulin beta chain

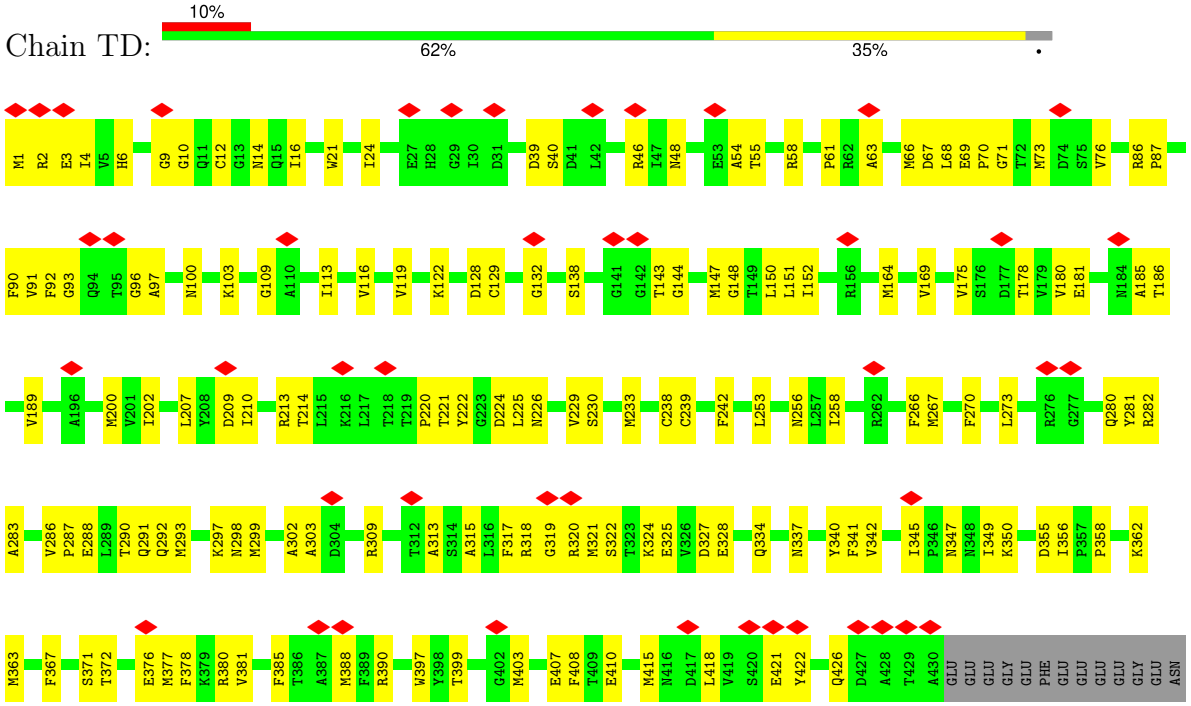
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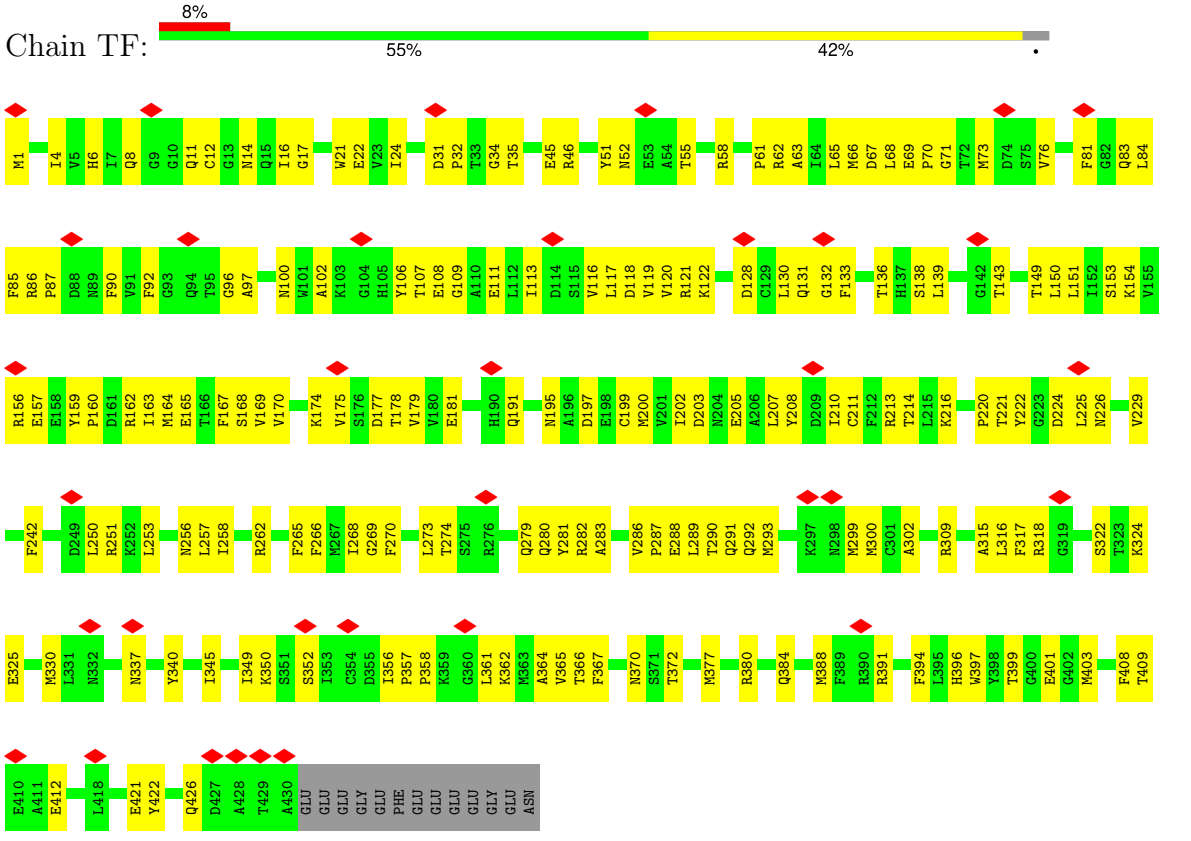
• Molecule 46: Tubulin beta chain

Chain TD:



• Molecule 46: Tubulin beta chain

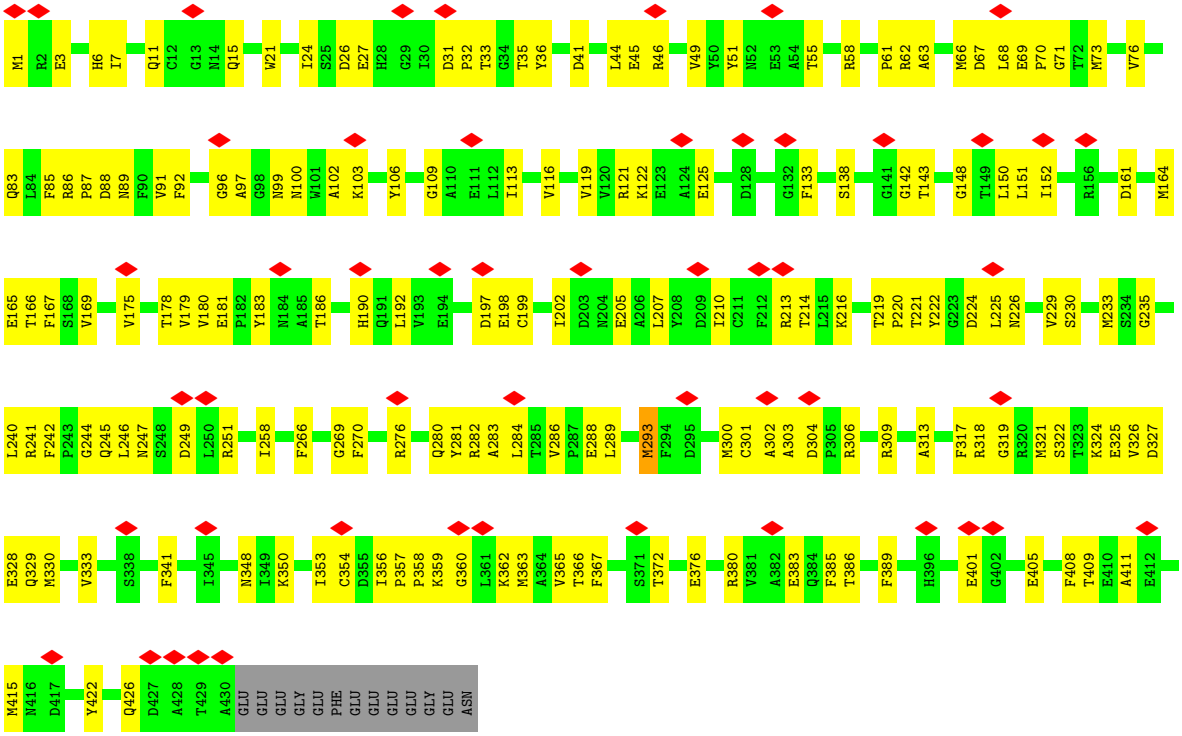
Chain TF:



• Molecule 46: Tubulin beta chain

Chain TH:

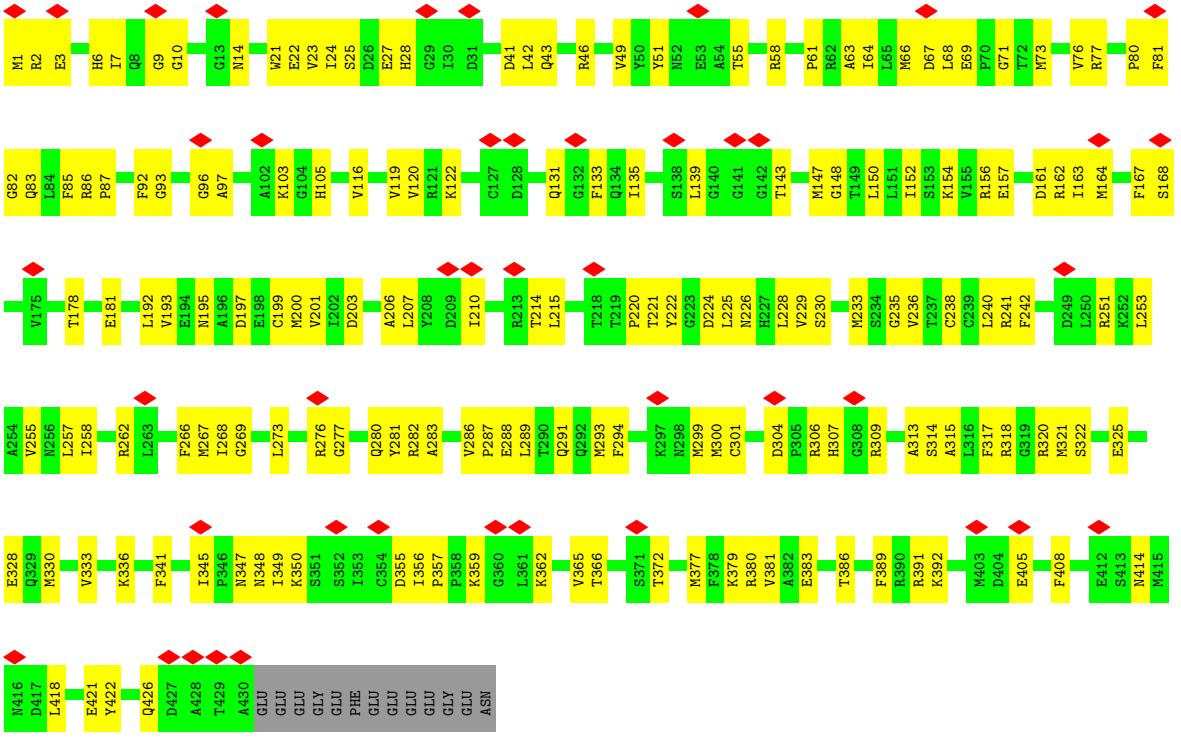




• Molecule 46: Tubulin beta chain

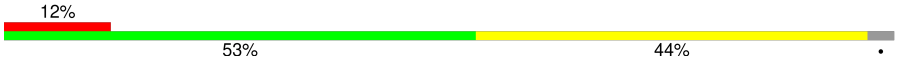
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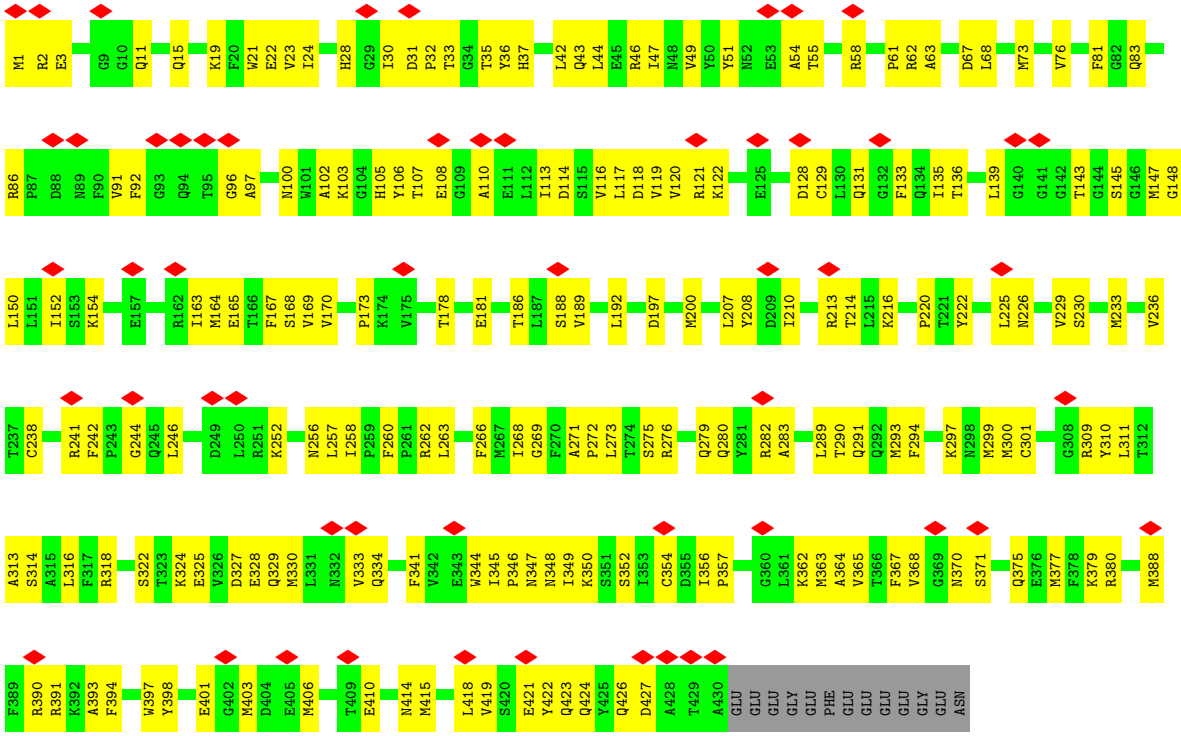




• Molecule 46: Tubulin beta chain

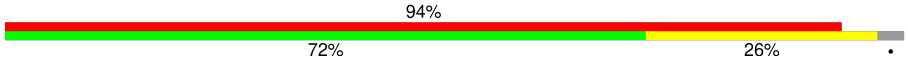
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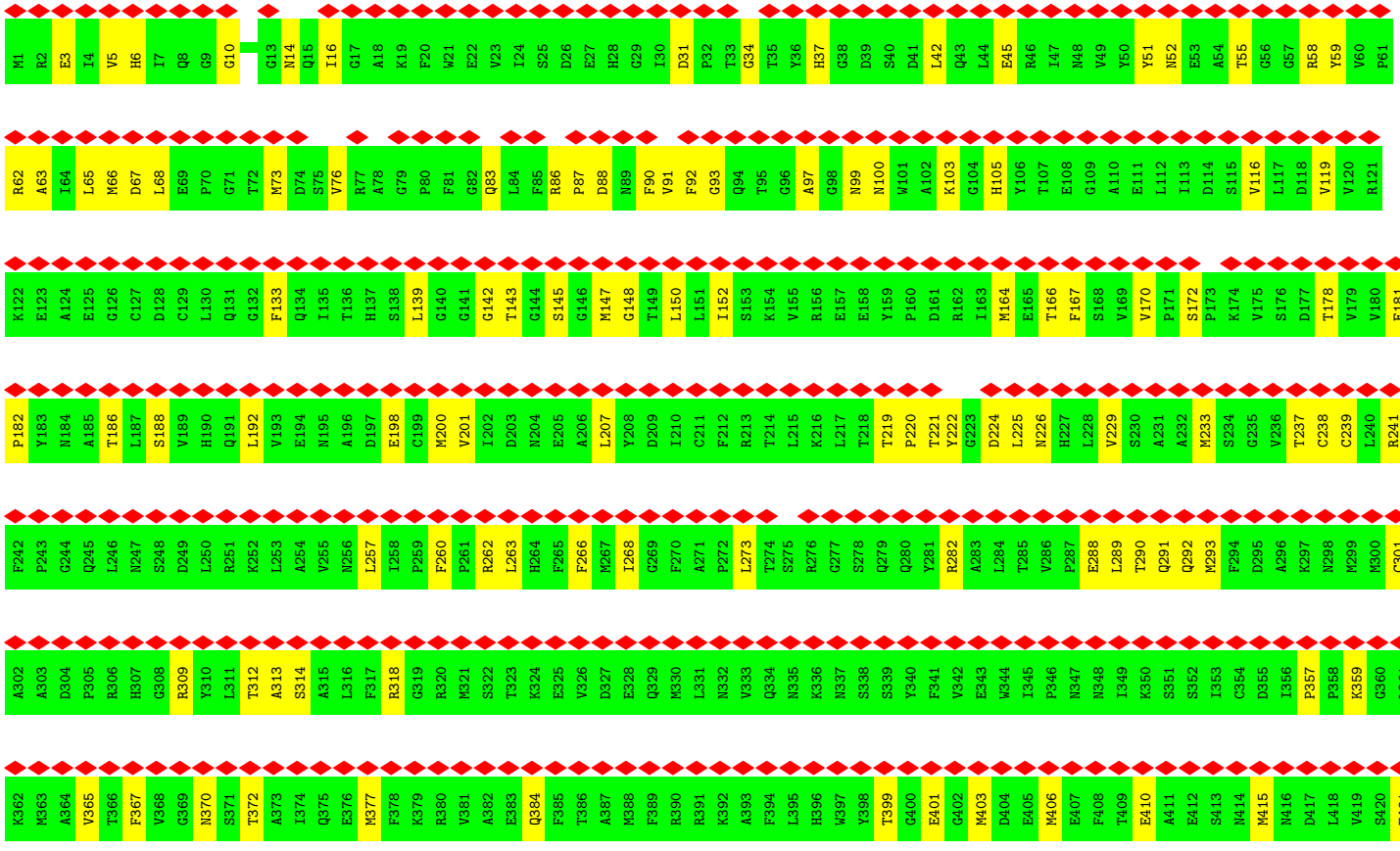


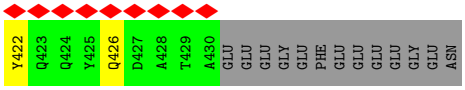


• Molecule 46: Tubulin beta chain

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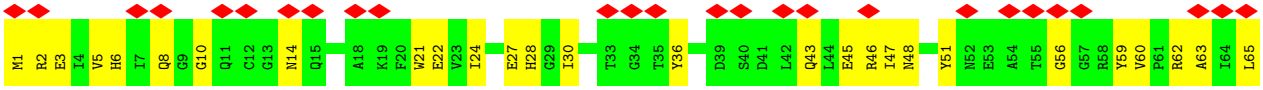


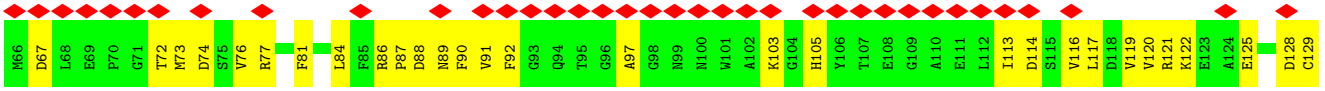


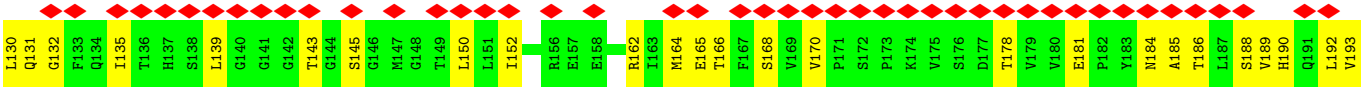
• Molecule 46: Tubulin beta chain

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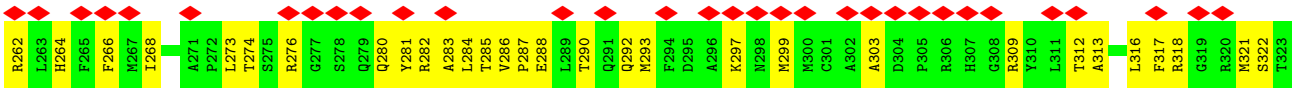


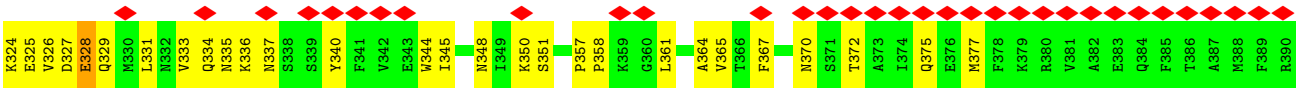


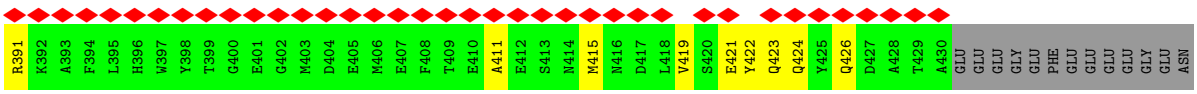










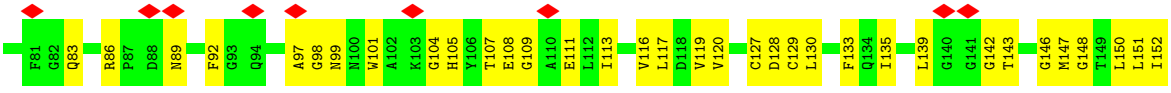


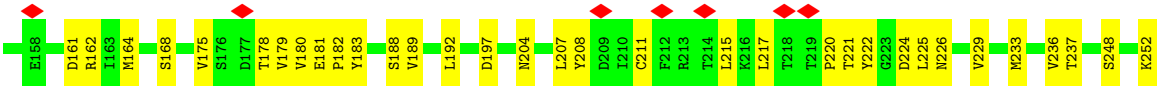
• Molecule 46: Tubulin beta chain

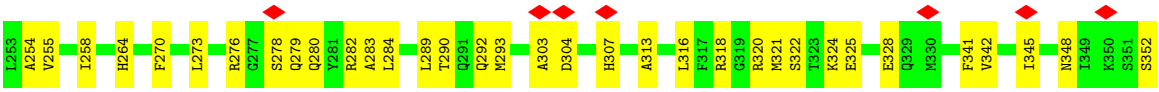
Chain UD:

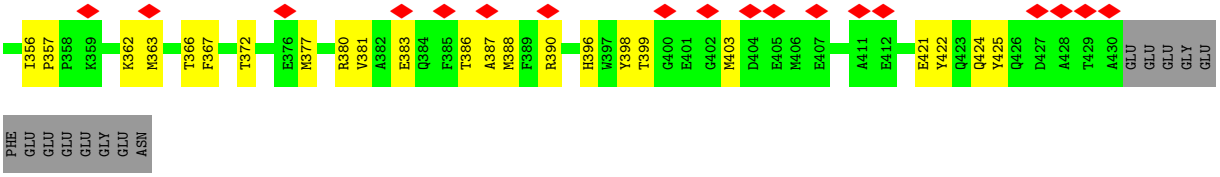








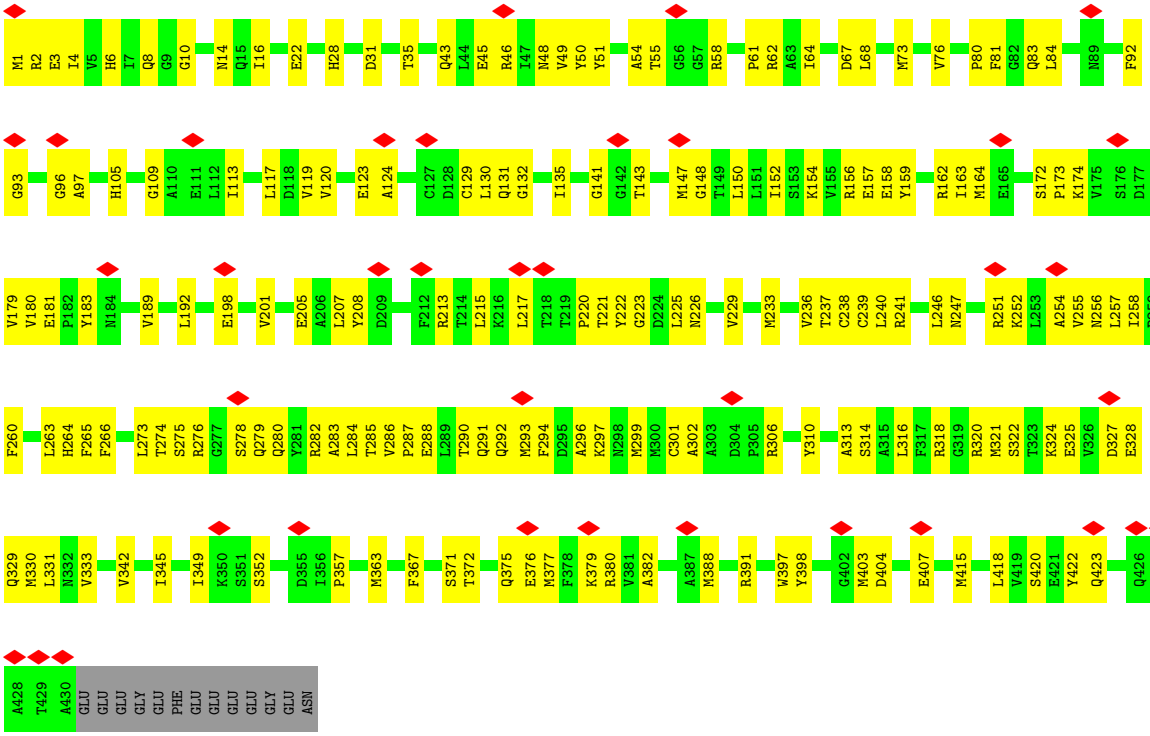




• Molecule 46: Tubulin beta chain

Chain UF:

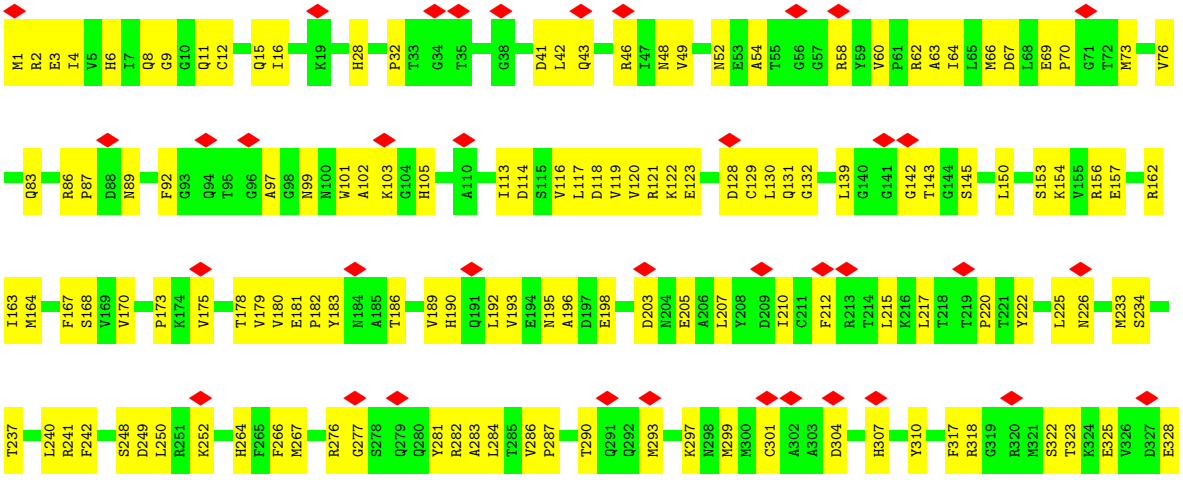


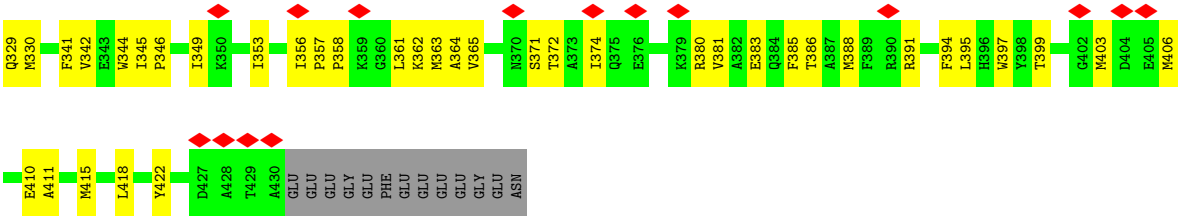


• Molecule 46: Tubulin beta chain

Chain UH:



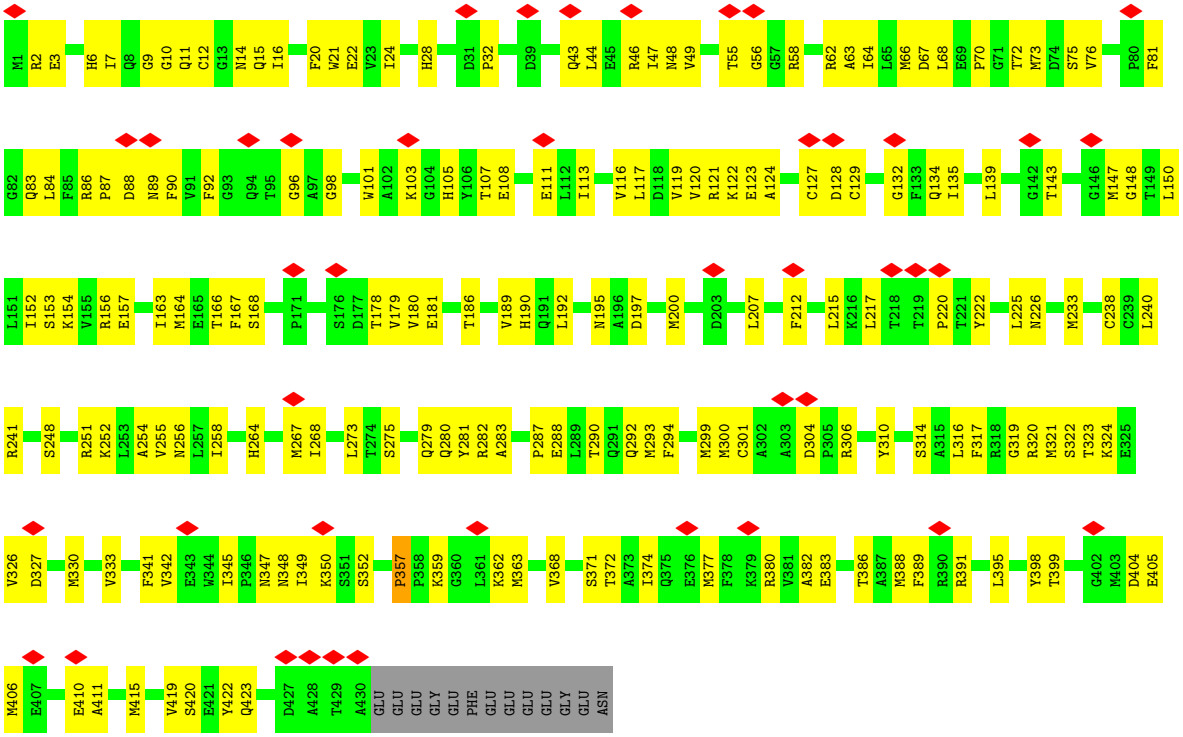




• Molecule 46: Tubulin beta chain

Chain UJ:

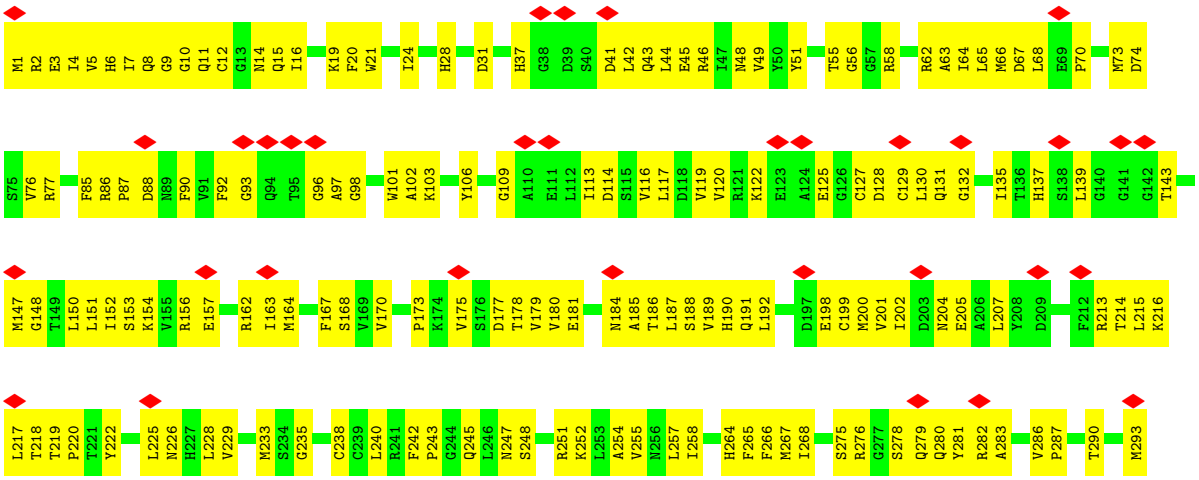


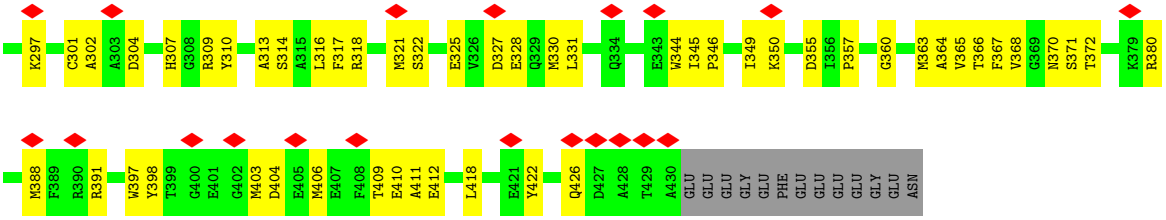


• Molecule 46: Tubulin beta chain

Chain UL:



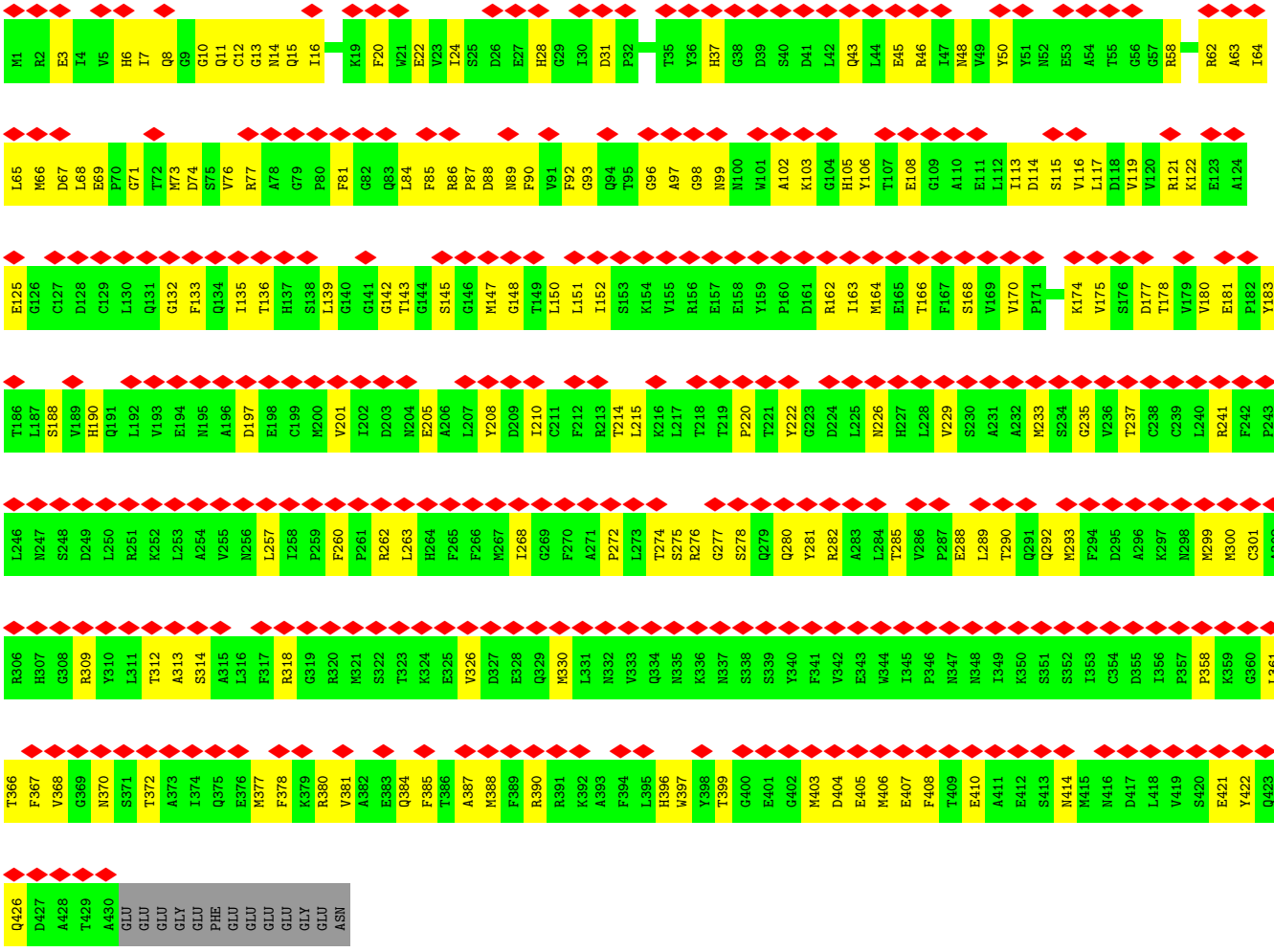




• Molecule 46: Tubulin beta chain

Chain UN:

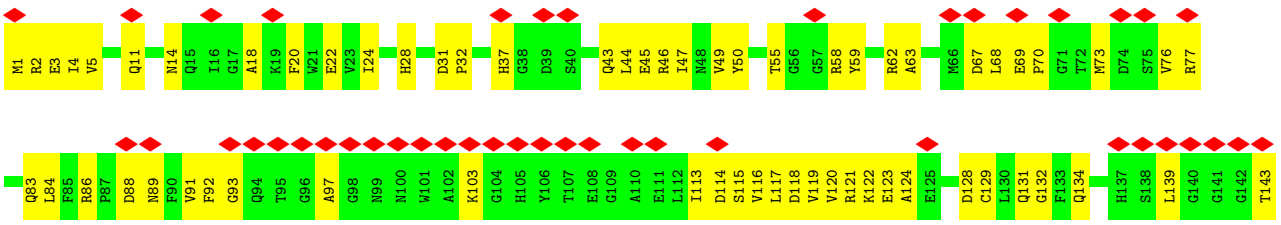


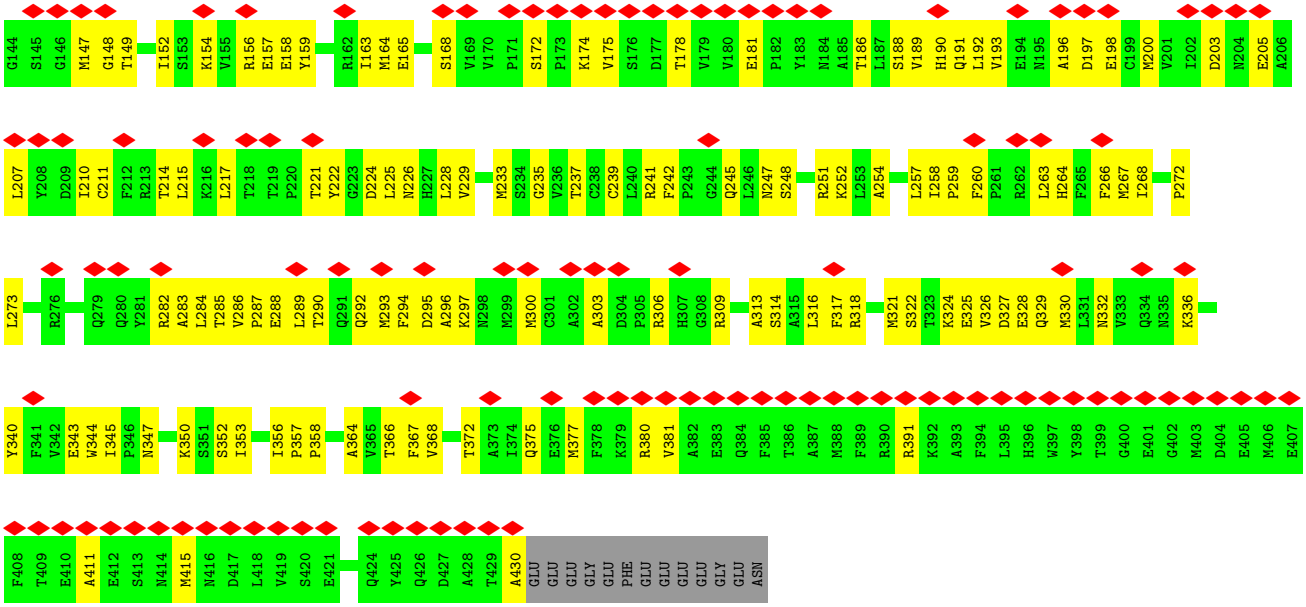


• Molecule 46: Tubulin beta chain

Chain VB:



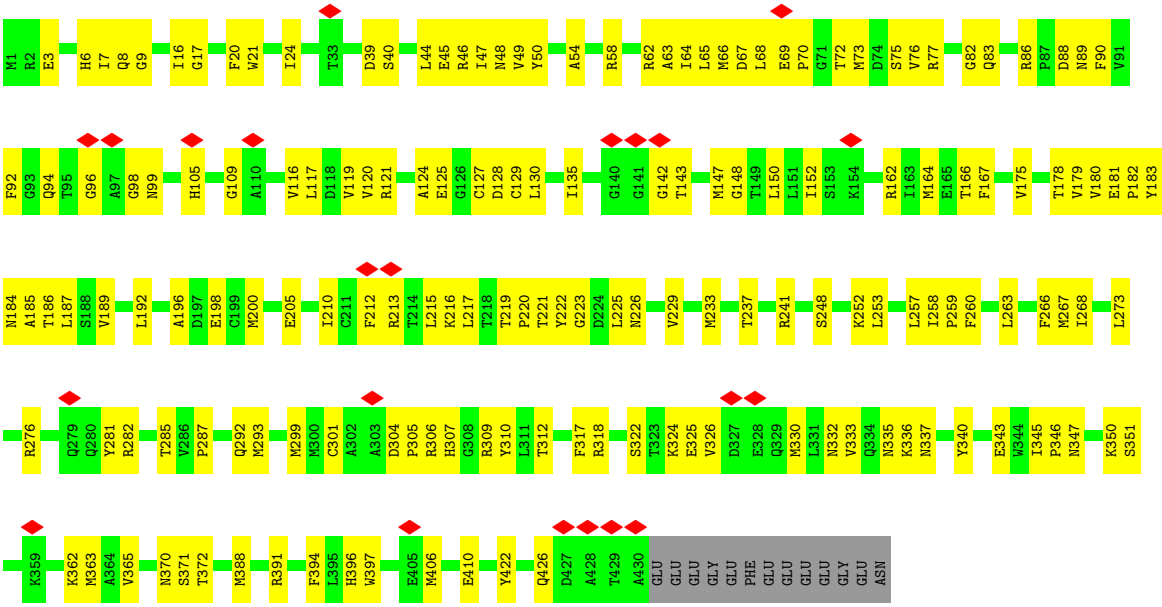




• Molecule 46: Tubulin beta chain

Chain VD:

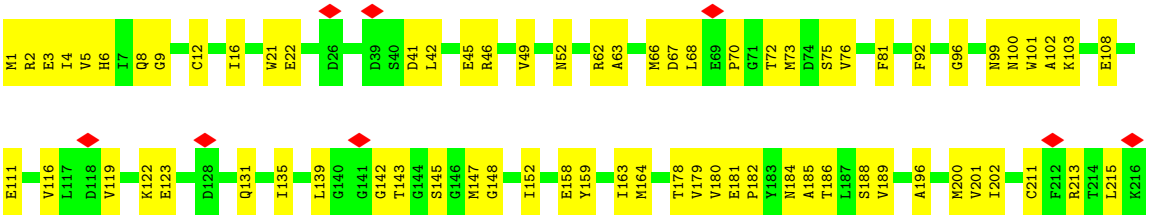


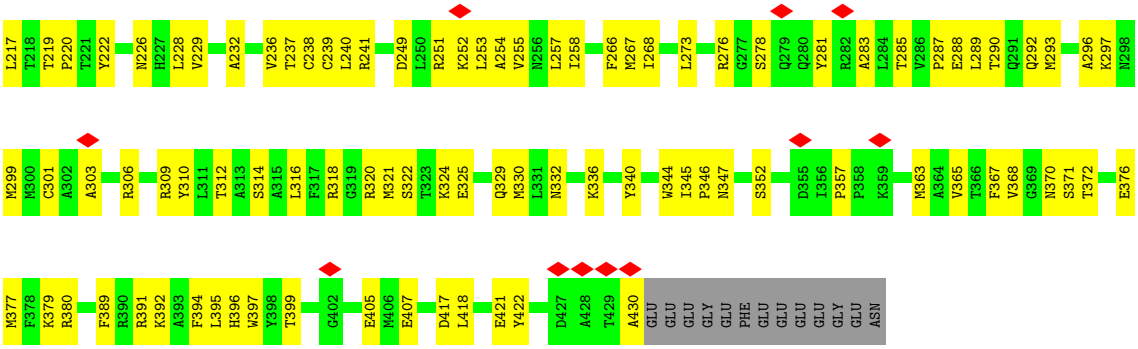


• Molecule 46: Tubulin beta chain

Chain VF:



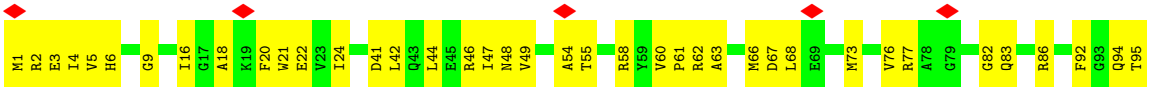




• Molecule 46: Tubulin beta chain

Chain VH:

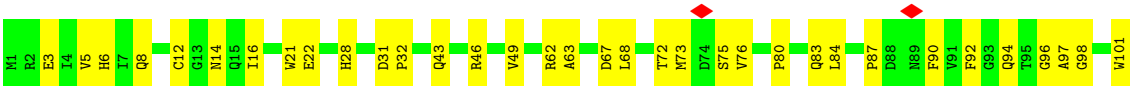


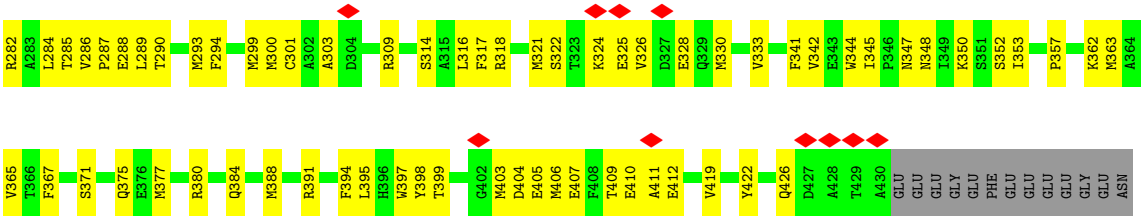


• Molecule 46: Tubulin beta chain

Chain VJ:



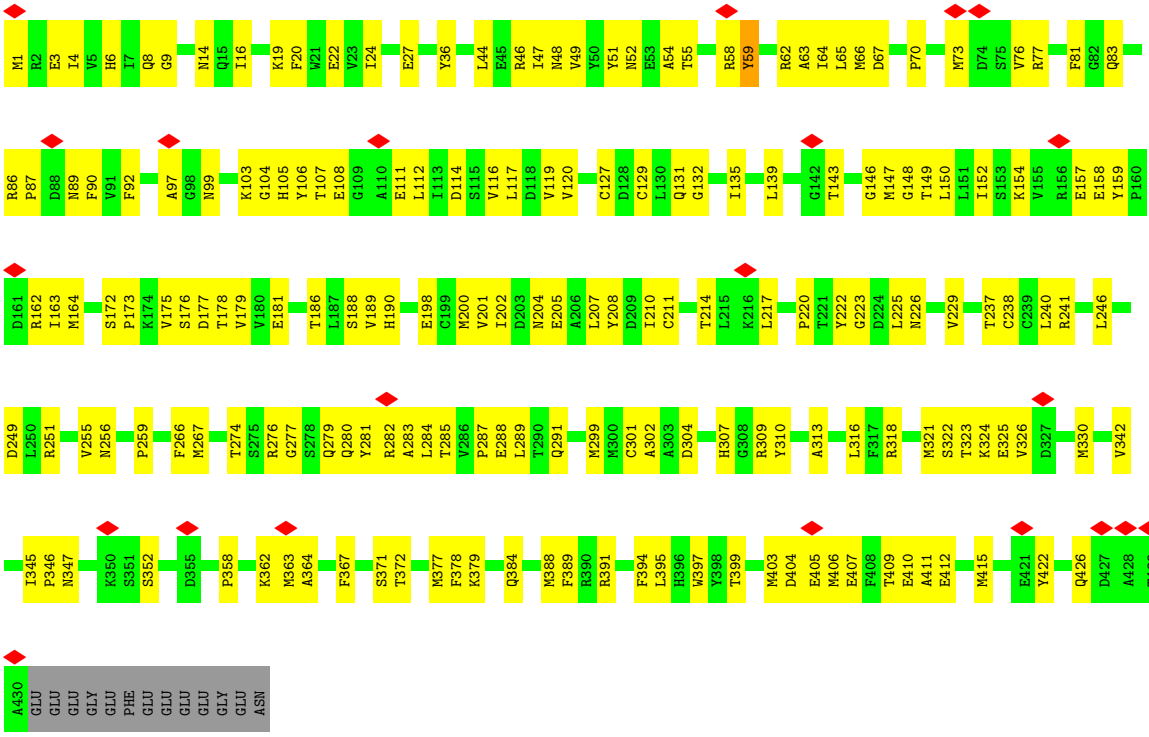




• Molecule 46: Tubulin beta chain

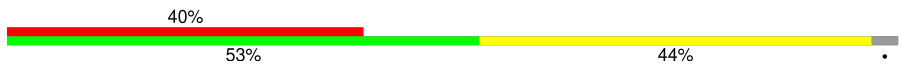
Chain VL:

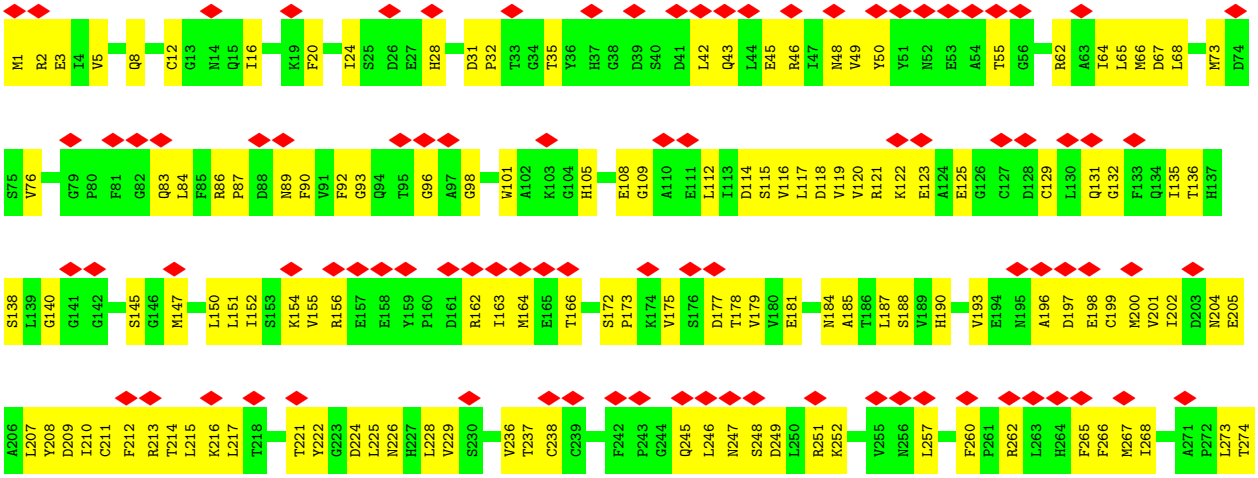


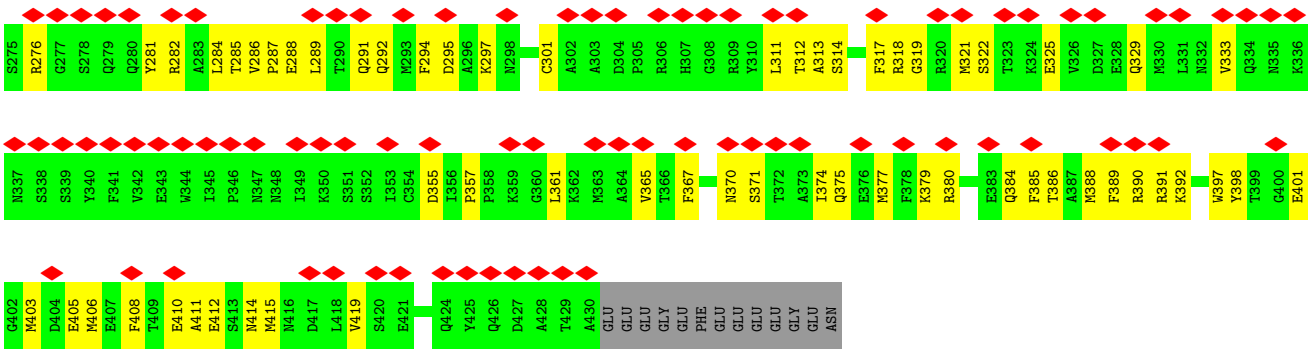


• Molecule 46: Tubulin beta chain

Chain VN:



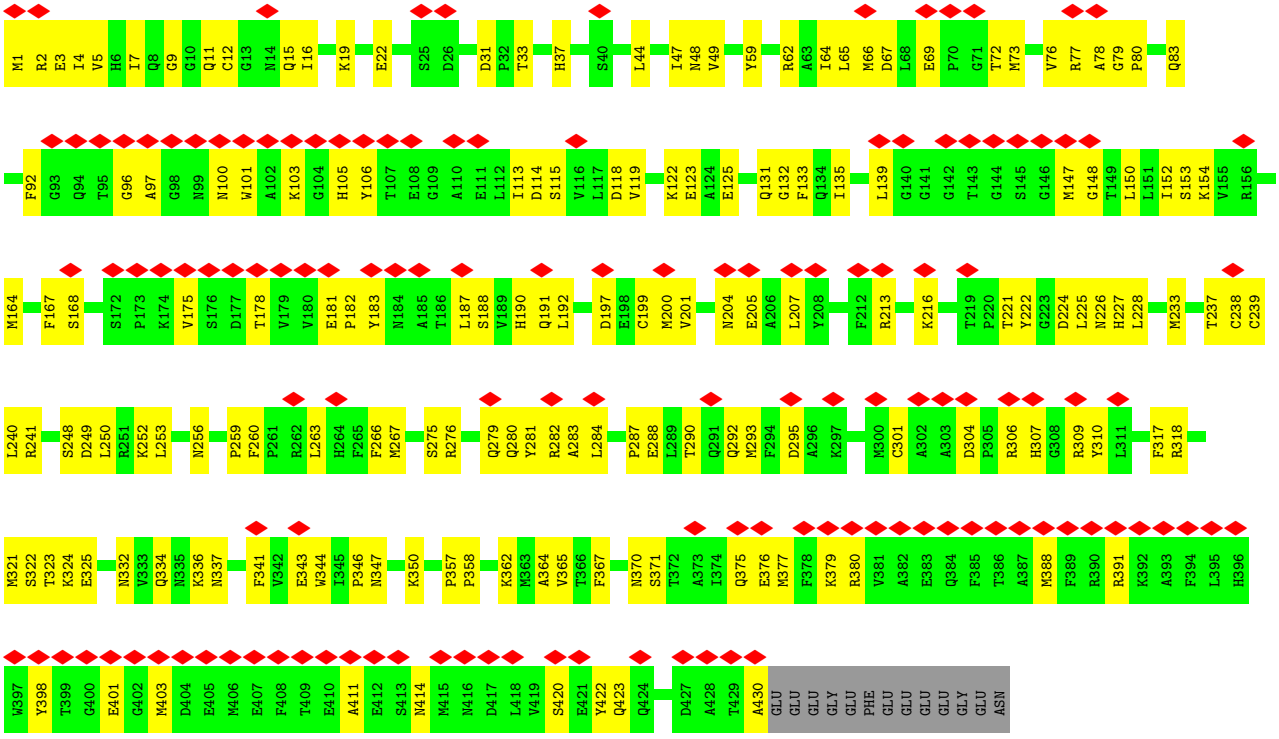




• Molecule 46: Tubulin beta chain

Chain WB:

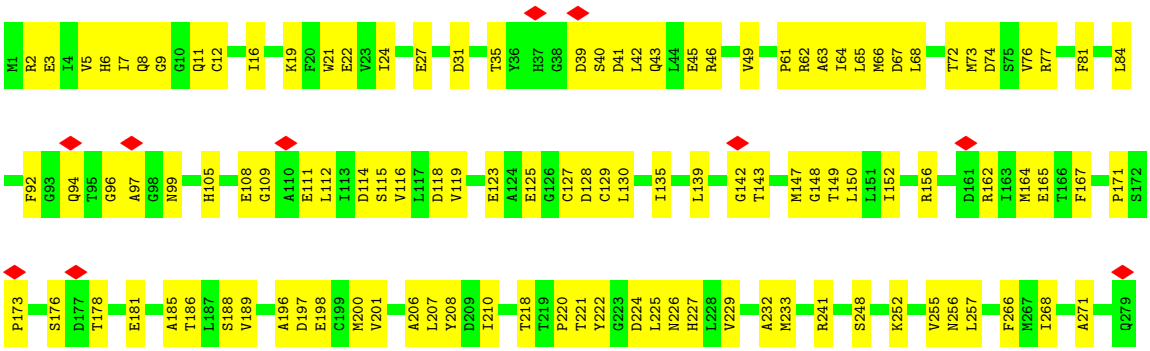


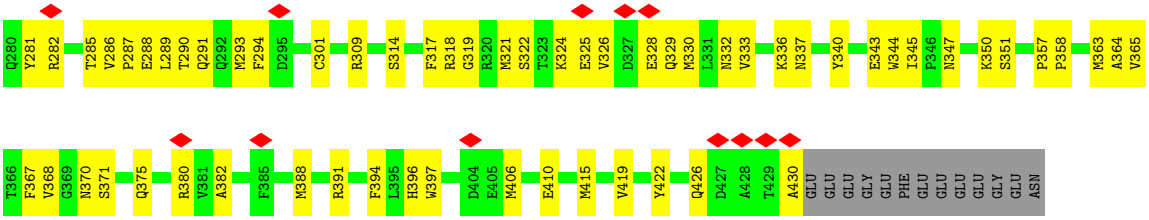


• Molecule 46: Tubulin beta chain

Chain WD:



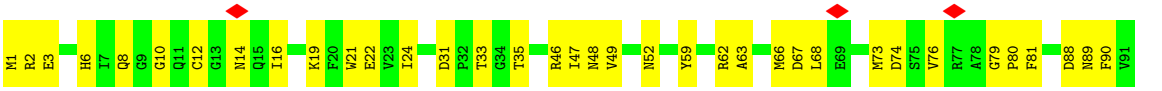


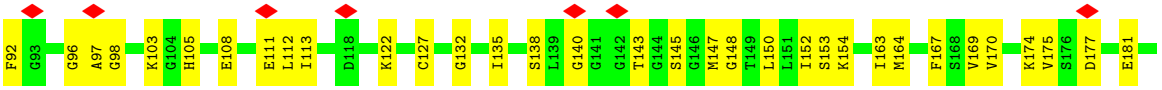


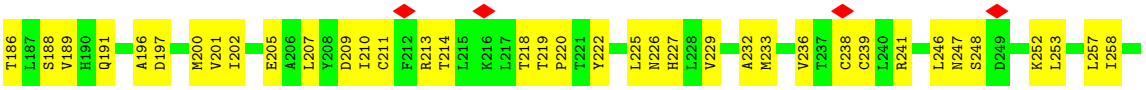
• Molecule 46: Tubulin beta chain

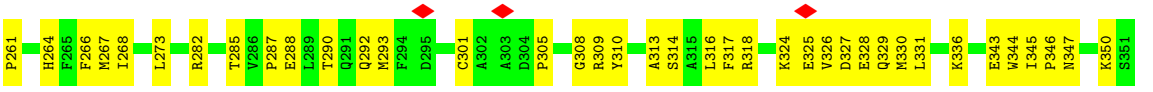
Chain WF:

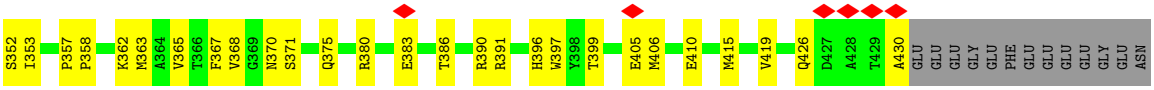








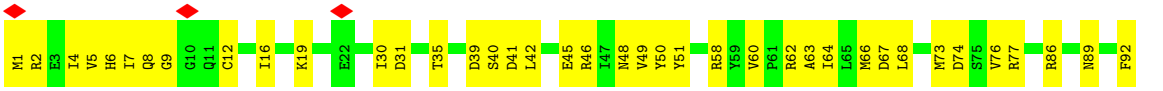




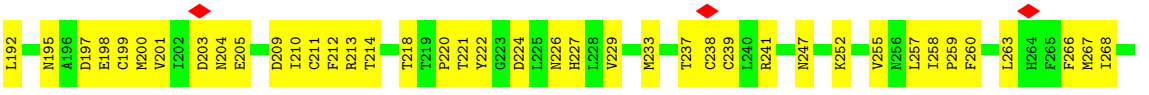
• Molecule 46: Tubulin beta chain

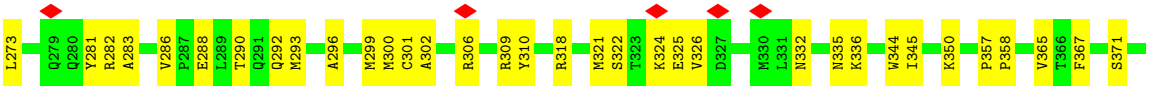
Chain WH:

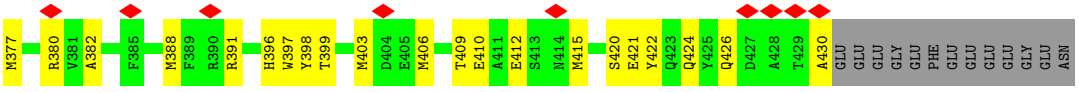








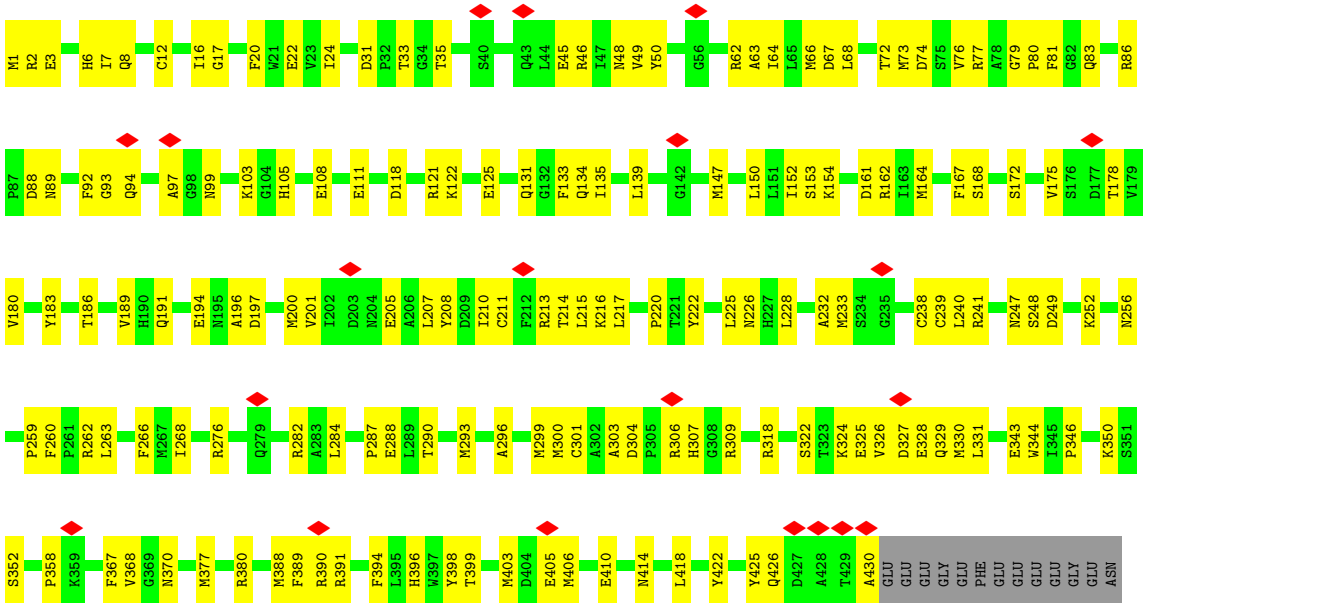




• Molecule 46: Tubulin beta chain

Chain WJ:

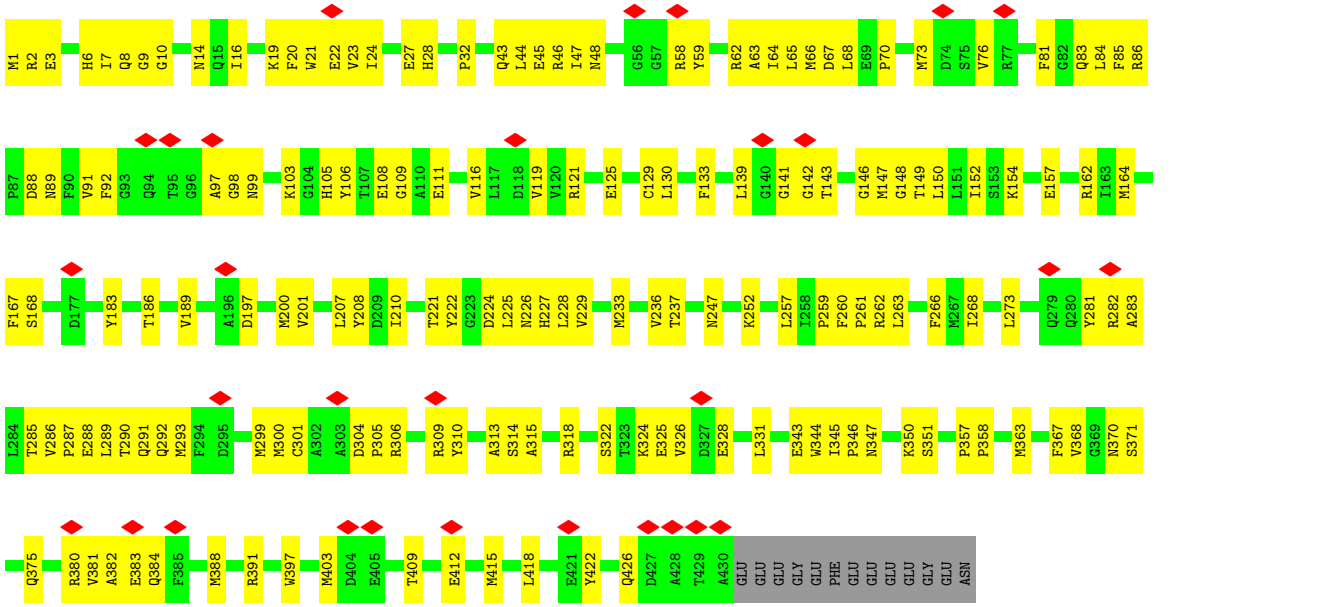




• Molecule 46: Tubulin beta chain

Chain WL:

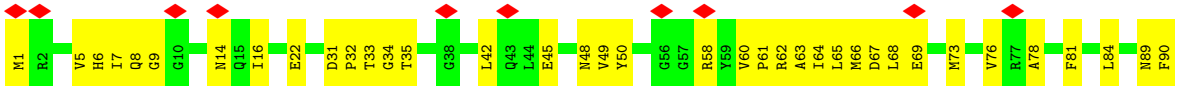


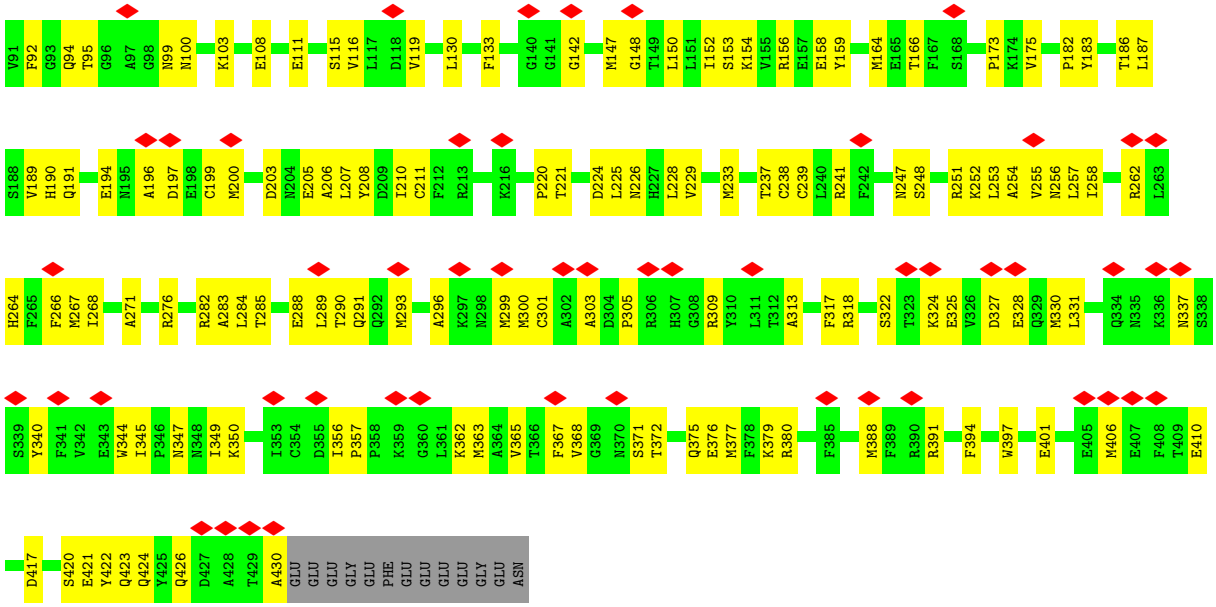


• Molecule 46: Tubulin beta chain

Chain WN:






V91 F92 G93 Q94 T95 G96 A97 G98 N99 N100 K103 E108 E111 S115 V116 L117 D118 V119 L130 F133 G140 G141 G142 M147 G148 T149 L150 L151 I152 S153 K154 V155 R156 E157 E158 Y159 M164 E165 T166 F167 S168 P173 K174 V175 P182 Y183 T186 L187
S188 V189 H190 Q191 E194 N195 A196 D197 E198 C199 M200 D203 W204 E205 A206 L207 Y208 D209 I210 C211 F212 R213 K216 P220 T221 D224 L225 N226 H227 L228 V229 M233 T237 C238 C239 L240 R241 F242 N247 S248 R251 K252 L253 A254 V255 N256 L257 I258 R262 L263
H264 F265 F266 M267 I268 A271 R276 R282 A283 L284 T285 E288 L289 T290 Q291 Q292 M293 A296 K297 N298 M299 M300 C301 A302 A303 D304 P305 R306 H307 G308 R309 Y310 L311 T312 A313 F317 R318 S322 T323 K324 E325 V326 D327 E328 Q329 M330 L331 Q334 N335 K336 N337 S338
S339 Y340 F341 V342 E343 W344 I345 P346 N347 N348 I349 K350 I353 C354 D355 I356 P357 P358 K359 G360 L361 K362 M363 A364 V365 T366 F367 V368 G369 N370 S371 T372 Q375 E376 M377 F378 K379 R380 F385 M388 F389 R390 R391 F394 W397 E401 E405 M406 E407 F408 T409 E410
D417 S420 E421 Y422 Q423 Q424 Y425 Q426 D427 A428 T429 A430 GLU GLU GLU GLY GLU PHE GLU GLU GLU GLU GLY GLU ASN

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	148365	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	45	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	2.356	Depositor
Minimum map value	-0.004	Depositor
Average map value	0.011	Depositor
Map value standard deviation	0.079	Depositor
Recommended contour level	0.15	Depositor
Map size (Å)	701.44, 701.44, 701.44	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.37, 1.37, 1.37	Depositor

5 Model quality

5.1 Standard geometry

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

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	0A	0.22	0/1272	0.66	1/1730 (0.1%)
1	1A	0.23	0/1272	0.63	2/1730 (0.1%)
1	2A	0.24	0/1272	0.68	1/1730 (0.1%)
1	3A	0.21	0/1272	0.60	2/1730 (0.1%)
2	0B	0.21	0/2674	0.63	1/3619 (0.0%)
3	0C	0.23	0/764	0.69	0/1029
3	1C	0.23	0/764	0.74	2/1029 (0.2%)
4	0D	0.23	0/1653	0.72	1/2238 (0.0%)
4	1D	0.24	0/1653	0.73	3/2238 (0.1%)
4	2D	0.25	0/1653	0.81	4/2238 (0.2%)
5	0E	0.20	0/1584	0.56	0/2133
5	1E	0.22	0/1584	0.61	2/2133 (0.1%)
5	2E	0.21	0/1584	0.60	0/2133
5	3E	0.19	0/1584	0.51	0/2133
6	0F	0.26	0/1699	0.76	2/2294 (0.1%)
7	0G	0.21	0/1409	0.71	2/1895 (0.1%)
7	1G	0.22	0/1136	0.71	2/1530 (0.1%)
8	0H	0.25	0/1060	0.72	0/1404
8	1H	0.25	0/3741	0.66	1/4955 (0.0%)
9	0N	0.19	0/2355	0.45	0/3181
9	1N	0.18	0/3884	0.44	0/5240
9	2N	0.16	0/2355	0.43	1/3181 (0.0%)
10	0Q	0.20	0/1583	0.53	0/2138
10	1Q	0.21	0/1583	0.56	0/2138
10	2Q	0.20	0/1583	0.50	0/2138
10	3Q	0.21	0/1583	0.54	2/2138 (0.1%)
10	4Q	0.21	0/1583	0.53	0/2138
10	5Q	0.20	0/1583	0.50	0/2138
10	6Q	0.20	0/1583	0.54	0/2138
11	0S	0.18	0/2361	0.48	1/3199 (0.0%)
11	1S	0.20	0/2361	0.50	0/3199
11	2S	0.21	0/2361	0.56	2/3199 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
11	3S	0.19	0/2361	0.50	0/3199
12	0T	0.17	0/2176	0.50	0/2931
12	1T	0.19	0/2379	0.49	0/3209
12	2T	0.21	0/2379	0.50	0/3209
12	3T	0.24	0/2379	0.48	0/3209
13	0U	0.18	0/4866	0.51	0/6583
13	1U	0.19	0/4866	0.51	0/6583
13	2U	0.19	0/4866	0.51	0/6583
13	3U	0.19	0/4866	0.54	0/6583
14	0V	0.16	0/1784	0.49	0/2393
14	1V	0.19	0/2213	0.58	0/2978
14	2V	0.20	0/2213	0.58	0/2978
14	3V	0.18	0/2213	0.54	0/2978
15	0X	0.27	0/946	0.73	1/1255 (0.1%)
15	1X	0.25	0/1216	0.65	2/1614 (0.1%)
15	2X	0.22	0/1216	0.57	1/1614 (0.1%)
15	3X	0.21	0/1216	0.55	1/1614 (0.1%)
15	4X	0.21	0/1216	0.53	0/1614
16	1B	0.18	0/4148	0.48	2/5587 (0.0%)
16	2B	0.18	0/2483	0.53	2/3339 (0.1%)
16	3B	0.19	0/2480	0.56	1/3333 (0.0%)
17	1F	0.21	0/1119	0.69	2/1513 (0.1%)
18	1I	0.22	0/1574	0.62	0/2125
19	1J	0.21	0/3090	0.61	0/4148
20	1K	0.20	0/2454	0.48	0/3260
20	2K	0.20	0/2528	0.54	0/3351
21	1L	0.18	0/6961	0.55	0/9360
21	2L	0.18	0/5243	0.53	3/7046 (0.0%)
21	3L	0.20	0/1685	0.62	0/2266
22	1M	0.19	0/3041	0.48	0/4100
22	2M	0.19	0/3041	0.50	0/4100
23	1O	0.83	1/2039 (0.0%)	0.69	4/2687 (0.1%)
23	2O	0.21	0/3185	0.58	0/4204
23	3O	0.20	0/2407	0.55	2/3180 (0.1%)
24	1P	0.22	0/3080	0.60	1/4069 (0.0%)
24	2P	0.23	0/1649	0.67	1/2186 (0.0%)
25	1R	0.17	0/4366	0.46	1/5904 (0.0%)
25	2R	0.17	0/4366	0.45	1/5904 (0.0%)
25	3R	0.18	0/4366	0.48	1/5904 (0.0%)
26	1W	0.19	0/1952	0.44	0/2606
26	2W	0.31	0/1008	0.78	2/1349 (0.1%)
27	2C	0.19	0/2511	0.55	2/3378 (0.1%)
27	3C	0.15	0/2511	0.48	2/3378 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
27	4C	0.16	0/2511	0.47	0/3378
28	2F	0.21	0/766	0.61	0/1025
29	2G	0.20	0/861	0.57	1/1146 (0.1%)
30	2H	0.18	0/507	0.57	0/672
30	3H	2.74	6/507 (1.2%)	0.57	0/672
30	4H	0.17	0/507	0.53	0/672
31	2I	0.23	0/1178	0.62	0/1583
31	3I	0.23	0/729	0.67	1/975 (0.1%)
32	3D	0.17	0/1878	0.44	0/2538
33	4F	0.20	0/1664	0.60	5/2251 (0.2%)
34	4R	0.33	2/5205 (0.0%)	0.52	2/7042 (0.0%)
34	5R	0.17	0/5205	0.44	0/7042
34	6R	0.14	0/5205	0.38	0/7042
34	7R	0.15	0/5205	0.40	0/7042
35	4S	0.19	0/1572	0.51	0/2122
35	5S	0.19	0/1572	0.52	0/2122
36	5A	0.20	0/1299	0.61	1/1757 (0.1%)
36	5B	0.20	0/1299	0.61	2/1757 (0.1%)
36	5C	0.19	0/1299	0.56	0/1757
36	5D	0.20	0/934	0.70	2/1265 (0.2%)
37	5E	0.20	0/1603	0.63	1/2157 (0.0%)
37	5F	0.23	0/1792	0.66	0/2415
37	5G	0.20	0/1792	0.59	0/2415
37	5H	0.21	0/1241	0.71	0/1677
39	6F	0.19	0/1170	0.54	0/1571
40	6G	0.23	0/1809	0.70	3/2426 (0.1%)
41	6H	0.23	0/1391	0.64	0/1858
44	8R	0.25	0/1135	0.50	0/1581
45	AA	0.18	0/3480	0.46	0/4716
45	AC	0.19	0/3480	0.45	0/4716
45	AE	0.19	0/3480	0.44	0/4716
45	AG	0.18	0/3480	0.46	3/4716 (0.1%)
45	AI	0.19	0/3480	0.43	0/4716
45	AK	0.19	0/3480	0.44	2/4716 (0.0%)
45	AM	0.17	0/3480	0.42	0/4716
45	BA	0.16	0/3435	0.44	0/4655
45	BC	0.19	0/3435	0.46	0/4655
45	BE	0.19	0/3435	0.47	0/4655
45	BG	0.18	0/3435	0.44	0/4655
45	BI	0.18	0/3435	0.44	0/4655
45	BK	0.18	0/3435	0.45	0/4655
45	BM	0.17	0/3435	0.45	0/4655
45	CA	0.15	0/3480	0.41	0/4716

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
45	CC	0.17	0/3480	0.45	0/4716
45	CE	0.19	0/3480	0.44	0/4716
45	CG	0.18	0/3480	0.44	0/4716
45	CI	0.17	0/3480	0.43	0/4716
45	CK	0.17	0/3480	0.45	0/4716
45	CM	0.16	0/3480	0.43	0/4716
45	DA	0.12	0/3443	0.36	0/4666
45	DC	0.17	0/3460	0.47	1/4687 (0.0%)
45	DE	0.17	0/3443	0.44	0/4666
45	DG	0.17	0/3460	0.44	0/4687
45	DI	0.16	0/3443	0.42	0/4666
45	DK	0.17	0/3460	0.45	0/4687
45	DM	0.16	0/3443	0.44	0/4666
45	EA	0.12	0/3480	0.37	0/4716
45	EC	0.17	0/3480	0.47	0/4716
45	EE	0.16	0/3480	0.43	0/4716
45	EG	0.15	0/3480	0.41	0/4716
45	EI	0.15	0/3480	0.42	0/4716
45	EK	0.17	0/3480	0.44	0/4716
45	EM	0.18	0/3480	0.47	1/4716 (0.0%)
45	FA	0.17	0/3413	0.43	1/4625 (0.0%)
45	FC	0.18	0/3435	0.43	0/4655
45	FE	0.18	0/3447	0.41	0/4671
45	FG	0.18	0/3480	0.42	0/4716
45	FI	0.18	0/3443	0.41	0/4666
45	FK	0.16	0/3435	0.43	0/4655
45	FM	0.12	0/3413	0.36	0/4625
45	GA	0.15	0/3413	0.43	0/4625
45	GC	0.19	0/3429	0.46	0/4647
45	GE	0.20	0/3429	0.44	0/4647
45	GG	0.19	0/3429	0.41	0/4647
45	GI	0.19	0/3429	0.42	1/4647 (0.0%)
45	GK	0.18	0/3480	0.45	2/4716 (0.0%)
45	GM	0.12	0/3413	0.34	0/4625
45	HA	0.17	0/3427	0.47	0/4644
45	HC	0.18	0/3427	0.40	0/4644
45	HE	0.20	0/3427	0.43	0/4644
45	HG	0.19	0/3427	0.43	0/4644
45	HI	0.19	0/3427	0.42	0/4644
45	HK	0.19	0/3427	0.44	2/4644 (0.0%)
45	HM	0.12	0/3427	0.34	0/4644
45	IA	0.19	0/3435	0.46	1/4655 (0.0%)
45	IC	0.19	0/3480	0.47	0/4716

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
45	IE	0.20	0/3435	0.43	0/4655
45	IG	0.19	0/3480	0.47	0/4716
45	II	0.21	0/3480	0.47	0/4716
45	IK	0.19	0/3435	0.46	0/4655
45	IM	0.16	0/3435	0.43	0/4655
45	JA	0.19	0/3435	0.43	1/4655 (0.0%)
45	JC	0.19	0/3447	0.42	0/4671
45	JE	0.19	0/3480	0.40	0/4716
45	JG	0.18	0/3480	0.43	1/4716 (0.0%)
45	JI	0.19	0/3476	0.43	1/4710 (0.0%)
45	JK	0.20	0/3480	0.48	0/4716
45	JM	0.15	0/3435	0.43	0/4655
45	KA	0.16	0/3447	0.40	0/4671
45	KC	0.17	0/3443	0.42	0/4666
45	KE	0.18	0/3456	0.42	0/4682
45	KG	0.18	0/3480	0.43	0/4716
45	KI	0.19	0/3480	0.43	0/4716
45	KK	0.18	0/3480	0.42	0/4716
45	KM	0.16	0/3447	0.42	0/4671
45	LA	0.17	0/3480	0.45	0/4716
45	LC	0.17	0/3480	0.39	0/4716
45	LE	0.18	0/3471	0.42	0/4702
45	LG	0.16	0/3480	0.38	0/4716
45	LI	0.18	0/3452	0.41	0/4677
45	LK	0.18	0/3480	0.41	0/4716
45	LM	0.17	0/3480	0.43	0/4716
45	MA	0.18	0/3463	0.43	0/4692
45	MC	0.19	0/3439	0.42	0/4660
45	ME	0.19	0/3443	0.44	0/4666
45	MG	0.18	0/3471	0.42	0/4703
45	MI	0.18	0/3480	0.44	0/4716
45	MK	0.19	0/3455	0.42	0/4681
45	MM	0.16	0/3463	0.40	0/4692
45	NA	0.17	0/3480	0.46	0/4716
45	NC	0.16	0/3435	0.39	0/4655
45	NE	0.17	0/3480	0.42	0/4716
45	NG	0.15	0/3435	0.39	0/4655
45	NI	0.17	0/3480	0.42	0/4716
45	NK	0.17	0/3435	0.45	0/4655
45	NM	0.16	0/3480	0.44	0/4716
45	OA	0.17	0/3439	0.46	0/4660
45	OC	0.18	0/3439	0.44	0/4660
45	OE	0.17	0/3439	0.43	0/4660

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
45	OG	0.16	0/3439	0.39	0/4660
45	OI	0.16	0/3439	0.42	0/4660
45	OK	0.17	0/3439	0.42	0/4660
45	OM	0.15	0/3439	0.44	0/4660
45	PA	0.17	0/3413	0.45	0/4625
45	PC	0.16	0/3413	0.43	0/4625
45	PE	0.16	0/3413	0.43	0/4625
45	PG	0.17	0/3413	0.43	0/4625
45	PI	0.17	0/3413	0.44	0/4625
45	PK	0.16	0/3413	0.42	0/4625
45	PM	0.16	0/3413	0.46	0/4625
45	QA	0.15	0/3427	0.44	0/4644
45	QC	0.17	0/3427	0.45	0/4644
45	QE	0.17	0/3427	0.42	0/4644
45	QG	0.18	0/3427	0.45	0/4644
45	QI	0.17	0/3427	0.42	0/4644
45	QK	0.17	0/3427	0.44	0/4644
45	QM	0.16	0/3427	0.44	0/4644
45	RA	0.13	0/3427	0.40	0/4644
45	RC	0.16	0/3427	0.45	0/4644
45	RE	0.26	1/3427 (0.0%)	0.51	4/4644 (0.1%)
45	RG	0.17	0/3427	0.44	0/4644
45	RI	0.16	0/3427	0.41	0/4644
45	RK	0.17	0/3427	0.46	0/4644
45	RM	0.15	0/3427	0.44	0/4644
45	SA	0.12	0/3421	0.36	0/4636
45	SC	0.15	0/3421	0.41	0/4636
45	SE	0.16	0/3421	0.41	0/4636
45	SG	0.18	0/3421	0.44	0/4636
45	SI	0.17	0/3421	0.42	0/4636
45	SK	0.18	0/3421	0.45	0/4636
45	SM	0.14	0/3421	0.41	0/4636
45	TA	0.12	0/3421	0.36	0/4636
45	TC	0.17	0/3421	0.47	0/4636
45	TE	0.19	0/3421	0.48	0/4636
45	TG	0.16	0/3421	0.42	1/4636 (0.0%)
45	TI	0.16	0/3421	0.43	0/4636
45	TK	0.17	0/3421	0.42	0/4636
45	TM	0.18	0/3421	0.47	0/4636
45	UA	1.19	6/3427 (0.2%)	0.38	0/4644
45	UC	0.16	0/3427	0.45	0/4644
45	UE	0.17	0/3427	0.47	0/4644
45	UG	0.17	0/3427	0.45	0/4644

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
45	UI	0.18	0/3427	0.46	0/4644
45	UK	0.17	0/3427	0.45	0/4644
45	UM	0.17	0/3427	0.47	0/4644
45	VA	0.18	0/3443	0.48	0/4666
45	VC	0.16	0/3480	0.41	0/4716
45	VE	0.17	0/3443	0.41	0/4666
45	VG	0.19	0/3480	0.44	0/4716
45	VI	0.18	0/3443	0.46	0/4666
45	VK	0.24	1/3480 (0.0%)	0.52	4/4716 (0.1%)
45	VM	0.12	0/3443	0.34	0/4666
45	WA	0.18	0/3427	0.49	0/4644
45	WC	0.18	0/3480	0.47	0/4716
45	WE	0.17	0/3427	0.42	0/4644
45	WG	0.18	0/3480	0.46	1/4716 (0.0%)
45	WI	0.17	0/3427	0.42	0/4644
45	WK	0.18	0/3480	0.48	0/4716
45	WM	0.15	0/3427	0.44	0/4644
46	AB	0.17	0/3439	0.43	0/4655
46	AD	0.20	0/3439	0.43	0/4655
46	AF	0.19	0/3439	0.42	0/4655
46	AH	0.19	0/3439	0.42	0/4655
46	AJ	0.19	0/3439	0.42	0/4655
46	AL	0.19	0/3439	0.39	0/4655
46	AN	0.18	0/3439	0.43	0/4655
46	BB	0.13	0/3439	0.36	0/4655
46	BD	0.19	0/3439	0.44	0/4655
46	BF	0.18	0/3439	0.41	0/4655
46	BH	0.21	0/3439	0.48	0/4655
46	BJ	0.19	0/3439	0.42	0/4655
46	BL	0.19	0/3439	0.45	0/4655
46	BN	0.19	0/3439	0.47	1/4655 (0.0%)
46	CB	0.18	0/3439	0.46	0/4655
46	CD	0.18	0/3439	0.44	0/4655
46	CF	0.41	2/3439 (0.1%)	0.57	2/4655 (0.0%)
46	CH	0.17	0/3439	0.44	0/4655
46	CJ	0.17	0/3439	0.41	0/4655
46	CL	0.18	0/3439	0.46	0/4655
46	CN	0.12	0/3439	0.32	0/4655
46	DB	0.15	0/3439	0.42	0/4655
46	DD	0.18	0/3439	0.45	1/4655 (0.0%)
46	DF	1.06	6/3439 (0.2%)	0.43	0/4655
46	DH	0.17	0/3439	0.41	0/4655
46	DJ	0.17	0/3439	0.42	0/4655

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
46	DL	0.17	0/3439	0.45	0/4655
46	DN	0.12	0/3439	0.32	0/4655
46	EB	0.14	0/3439	0.37	0/4655
46	ED	0.17	0/3439	0.44	0/4655
46	EF	0.17	0/3439	0.46	0/4655
46	EH	0.16	0/3439	0.41	0/4655
46	EJ	0.16	0/3439	0.40	0/4655
46	EL	0.18	0/3439	0.48	0/4655
46	EN	0.17	0/3439	0.41	3/4655 (0.1%)
46	FB	0.13	0/3439	0.36	0/4655
46	FD	0.20	0/3439	0.48	0/4655
46	FF	0.20	0/3439	0.43	0/4655
46	FH	0.19	0/3439	0.45	0/4655
46	FJ	0.19	0/3439	0.41	0/4655
46	FL	0.19	0/3439	0.45	0/4655
46	FN	0.14	0/3439	0.40	0/4655
46	GB	0.13	0/3439	0.37	0/4655
46	GD	0.19	0/3439	0.46	0/4655
46	GF	0.20	0/3439	0.42	0/4655
46	GH	0.21	0/3439	0.44	0/4655
46	GJ	0.19	0/3439	0.42	0/4655
46	GL	0.18	0/3439	0.42	0/4655
46	GN	0.16	0/3439	0.43	0/4655
46	HB	0.13	0/3439	0.36	0/4655
46	HD	0.18	0/3439	0.42	0/4655
46	HF	0.22	0/3439	0.48	2/4655 (0.0%)
46	HH	0.19	0/3439	0.41	0/4655
46	HJ	0.20	0/3439	0.42	0/4655
46	HL	0.19	0/3439	0.41	0/4655
46	HN	0.16	0/3439	0.41	0/4655
46	IB	0.16	0/3439	0.43	0/4655
46	ID	0.18	0/3439	0.41	0/4655
46	IF	0.19	0/3439	0.41	0/4655
46	IH	0.20	0/3439	0.43	0/4655
46	IJ	0.20	0/3439	0.43	0/4655
46	IL	0.19	0/3439	0.41	0/4655
46	IN	0.19	0/3439	0.46	0/4655
46	JB	0.17	0/3439	0.41	0/4655
46	JD	0.19	0/3439	0.43	0/4655
46	JF	0.19	0/3439	0.39	0/4655
46	JH	0.18	0/3439	0.43	2/4655 (0.0%)
46	JJ	0.19	0/3439	0.43	0/4655
46	JL	0.19	0/3439	0.42	0/4655

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
46	JN	0.19	0/3439	0.46	0/4655
46	KB	0.16	0/3439	0.41	1/4655 (0.0%)
46	KD	0.17	0/3439	0.41	0/4655
46	KF	0.18	0/3439	0.43	3/4655 (0.1%)
46	KH	0.19	0/3439	0.42	2/4655 (0.0%)
46	KJ	0.19	0/3439	0.48	4/4655 (0.1%)
46	KL	0.18	0/3439	0.41	0/4655
46	KN	0.18	0/3439	0.44	2/4655 (0.0%)
46	LB	0.15	0/3439	0.38	0/4655
46	LD	0.17	0/3439	0.40	0/4655
46	LF	0.18	0/3439	0.44	0/4655
46	LH	0.17	0/3439	0.40	0/4655
46	LJ	0.19	0/3439	0.43	0/4655
46	LL	0.19	0/3439	0.41	0/4655
46	LN	0.18	0/3439	0.41	0/4655
46	MB	0.18	0/3439	0.43	0/4655
46	MD	0.19	0/3439	0.39	0/4655
46	MF	0.20	0/3439	0.43	0/4655
46	MH	0.19	0/3439	0.42	0/4655
46	MJ	0.21	0/3439	0.44	0/4655
46	ML	0.18	0/3439	0.38	0/4655
46	MN	0.18	0/3439	0.39	0/4655
46	NB	0.16	0/3375	0.47	2/4569 (0.0%)
46	ND	0.19	0/3439	0.49	1/4655 (0.0%)
46	NF	0.16	0/3375	0.42	0/4569
46	NH	0.17	0/3439	0.43	1/4655 (0.0%)
46	NJ	0.17	0/3375	0.43	0/4569
46	NL	0.18	0/3439	0.44	1/4655 (0.0%)
46	NN	0.17	0/3375	0.42	0/4569
46	OB	0.16	0/3439	0.43	2/4655 (0.0%)
46	OD	0.17	0/3439	0.45	0/4655
46	OF	0.16	0/3439	0.41	1/4655 (0.0%)
46	OH	0.16	0/3439	0.42	0/4655
46	OJ	0.16	0/3439	0.40	0/4655
46	OL	0.18	0/3439	0.43	0/4655
46	ON	0.16	0/3439	0.43	0/4655
46	PB	0.12	0/3439	0.33	0/4655
46	PD	0.17	0/3439	0.47	0/4655
46	PF	0.17	0/3439	0.41	0/4655
46	PH	0.19	0/3439	0.44	0/4655
46	PJ	0.16	0/3439	0.41	0/4655
46	PL	0.17	0/3439	0.43	0/4655
46	PN	0.18	0/3439	0.50	2/4655 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
46	QB	0.17	0/3439	0.44	0/4655
46	QD	0.16	0/3439	0.41	0/4655
46	QF	0.17	0/3439	0.44	0/4655
46	QH	0.17	0/3439	0.43	0/4655
46	QJ	0.16	0/3439	0.43	0/4655
46	QL	0.18	0/3439	0.45	0/4655
46	QN	0.11	0/3439	0.31	0/4655
46	RB	0.17	0/3439	0.44	0/4655
46	RD	0.17	0/3439	0.40	0/4655
46	RF	0.18	0/3439	0.44	0/4655
46	RH	0.17	0/3439	0.43	0/4655
46	RJ	0.17	0/3439	0.41	0/4655
46	RL	0.27	1/3439 (0.0%)	0.58	4/4655 (0.1%)
46	RN	0.11	0/3439	0.30	0/4655
46	SB	0.16	0/3439	0.45	0/4655
46	SD	0.19	0/3439	0.44	0/4655
46	SF	0.18	0/3439	0.43	0/4655
46	SH	0.18	0/3439	0.43	0/4655
46	SJ	0.18	0/3439	0.41	0/4655
46	SL	0.19	0/3439	0.47	0/4655
46	SN	0.12	0/3439	0.32	0/4655
46	TB	0.17	0/3439	0.46	0/4655
46	TD	0.17	0/3439	0.44	0/4655
46	TF	0.17	0/3439	0.43	0/4655
46	TH	0.16	0/3439	0.42	1/4655 (0.0%)
46	TJ	0.17	0/3439	0.43	0/4655
46	TL	0.17	0/3439	0.46	0/4655
46	TN	0.12	0/3439	0.33	0/4655
46	UB	0.18	0/3439	0.45	1/4655 (0.0%)
46	UD	0.17	0/3439	0.43	0/4655
46	UF	0.17	0/3439	0.41	0/4655
46	UH	0.18	0/3439	0.44	0/4655
46	UJ	0.19	0/3439	0.49	1/4655 (0.0%)
46	UL	0.18	0/3439	0.45	0/4655
46	UN	0.16	0/3439	0.44	0/4655
46	VB	0.17	0/3439	0.49	0/4655
46	VD	0.19	0/3439	0.45	0/4655
46	VF	0.18	0/3439	0.43	0/4655
46	VH	0.17	0/3439	0.44	0/4655
46	VJ	0.18	0/3439	0.43	0/4655
46	VL	0.18	0/3439	0.47	2/4655 (0.0%)
46	VN	0.17	0/3439	0.44	0/4655
46	WB	0.17	0/3439	0.47	0/4655

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
46	WD	0.19	0/3439	0.45	0/4655
46	WF	0.18	0/3439	0.43	0/4655
46	WH	0.17	0/3439	0.44	0/4655
46	WJ	0.19	0/3439	0.47	0/4655
46	WL	0.19	0/3439	0.44	0/4655
46	WN	0.18	0/3439	0.44	0/4655
All	All	0.21	26/1335252 (0.0%)	0.45	151/1806584 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	0A	0	1
1	1A	0	1
1	2A	0	1
1	3A	0	1
2	0B	0	3
4	1D	0	1
4	2D	0	1
5	0E	0	1
5	1E	0	1
6	0F	0	4
7	0G	0	2
7	1G	0	1
10	2Q	0	1
11	0S	0	1
13	0U	0	1
13	1U	0	1
13	3U	0	1
21	1L	0	2
21	2L	0	2
23	1O	0	1
25	1R	0	1
25	2R	0	1
25	3R	0	1
31	3I	0	1
33	4F	0	1
40	6G	0	2
44	8R	0	1
45	BI	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
45	EA	0	1
45	EE	0	1
45	EI	0	1
45	EM	0	1
45	PA	0	1
45	QA	0	1
45	RM	0	1
45	TA	0	1
46	BH	0	1
46	QD	0	1
46	UF	0	1
All	All	0	48

All (26) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
45	UA	282	TYR	CD2-CE2	41.47	2.63	1.38
23	1O	266	GLU	CA-C	35.74	1.94	1.52
46	DF	281	TYR	CD2-CE2	33.38	2.38	1.38
45	UA	282	TYR	CD1-CE1	31.01	2.31	1.38
46	DF	281	TYR	CD1-CE1	30.10	2.29	1.38
30	3H	174	PHE	CE1-CZ	29.12	2.26	1.38
30	3H	174	PHE	CD1-CE1	27.50	2.21	1.38
30	3H	174	PHE	CD2-CE2	27.38	2.20	1.38
30	3H	174	PHE	CE2-CZ	26.09	2.17	1.38
45	UA	282	TYR	CG-CD2	24.07	1.89	1.39
45	UA	282	TYR	CE2-CZ	23.61	1.95	1.38
45	UA	282	TYR	CE1-CZ	23.52	1.94	1.38
46	DF	281	TYR	CE1-CZ	22.11	1.91	1.38
46	DF	281	TYR	CE2-CZ	22.01	1.91	1.38
45	UA	282	TYR	CG-CD1	21.15	1.83	1.39
46	DF	281	TYR	CG-CD2	19.53	1.80	1.39
46	DF	281	TYR	CG-CD1	19.47	1.80	1.39
30	3H	174	PHE	CG-CD2	19.38	1.79	1.38
30	3H	174	PHE	CG-CD1	19.28	1.79	1.38
46	CF	86	ARG	CD-NE	17.27	1.70	1.46
34	4R	147	ARG	CD-NE	16.44	1.69	1.46
46	CF	86	ARG	NE-CZ	12.28	1.46	1.33
34	4R	147	ARG	NE-CZ	11.67	1.45	1.33
45	RE	89	PRO	CG-CD	-9.38	1.18	1.50
46	RL	173	PRO	CG-CD	-8.64	1.21	1.50
45	VK	261	PRO	CG-CD	-6.36	1.29	1.50

All (151) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	4R	147	ARG	CD-NE-CZ	21.14	153.99	124.40
46	CF	86	ARG	CD-NE-CZ	20.44	153.02	124.40
45	VK	261	PRO	CA-N-CD	-12.04	95.14	112.00
46	RL	173	PRO	N-CD-CG	-11.58	85.83	103.20
45	RE	89	PRO	CA-N-CD	-11.56	95.81	112.00
23	1O	266	GLU	O-C-N	-11.31	107.37	122.19
45	RE	89	PRO	N-CD-CG	-11.15	86.48	103.20
23	1O	266	GLU	CB-CA-C	10.69	128.09	110.24
46	HF	80	PRO	CA-N-CD	-10.22	97.69	112.00
45	IA	261	PRO	CA-N-CD	-9.44	98.79	112.00
45	VK	261	PRO	N-CD-CG	-8.99	89.72	103.20
17	1F	29	GLN	C-N-CD	-8.83	88.80	125.00
3	1C	44	ILE	C-N-CD	-8.61	89.69	125.00
45	EM	261	PRO	CA-N-CD	-8.52	100.07	112.00
23	1O	266	GLU	N-CA-CB	-8.47	96.11	110.33
46	EN	182	PRO	CA-N-CD	-8.39	100.26	112.00
46	RL	259	PRO	CA-N-CD	-8.09	100.67	112.00
34	4R	147	ARG	CG-CD-NE	7.94	129.46	112.00
46	RL	173	PRO	CA-N-CD	-7.92	100.91	112.00
11	2S	28	GLU	CA-C-N	7.56	135.98	121.54
11	2S	28	GLU	C-N-CA	7.56	135.98	121.54
40	6G	121	SER	CA-C-N	7.43	135.08	121.70
40	6G	121	SER	C-N-CA	7.43	135.08	121.70
6	0F	32	ILE	C-N-CD	-7.35	94.86	125.00
4	2D	181	ILE	N-CA-C	-7.15	106.92	113.71
23	3O	374	ARG	CA-CB-CG	6.85	127.80	114.10
3	1C	45	PRO	CA-N-CD	-6.83	102.44	112.00
16	2B	201	TYR	CA-C-N	6.69	134.01	121.97
16	2B	201	TYR	C-N-CA	6.69	134.01	121.97
4	1D	221	PRO	CA-N-CD	-6.66	102.68	112.00
16	1B	201	TYR	CA-C-N	6.59	133.84	121.97
16	1B	201	TYR	C-N-CA	6.59	133.84	121.97
46	EN	182	PRO	N-CD-CG	-6.58	93.34	103.20
46	KB	426	GLN	N-CA-C	-6.46	106.61	114.75
45	GK	45	GLY	CA-C-N	6.45	136.98	126.86
45	GK	45	GLY	C-N-CA	6.45	136.98	126.86
15	1X	45	GLN	CA-CB-CG	6.43	126.96	114.10
8	1H	115	ARG	CB-CG-CD	-6.42	96.53	111.30
46	JH	285	THR	CA-C-N	6.37	124.25	120.24
46	JH	285	THR	C-N-CA	6.37	124.25	120.24
45	RE	89	PRO	CA-CB-CG	-6.31	92.52	104.50
27	2C	229	ASN	CA-C-N	6.29	133.56	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	2C	229	ASN	C-N-CA	6.29	133.56	121.54
1	3A	38	SER	N-CA-C	-6.29	103.69	112.12
45	JI	181	VAL	N-CA-C	-6.25	107.77	113.71
23	3O	283	LYS	CB-CG-CD	6.24	125.65	111.30
6	0F	170	ARG	CA-CB-CG	6.23	126.56	114.10
15	1X	50	GLU	CA-CB-CG	6.21	126.51	114.10
15	3X	45	GLN	CA-CB-CG	6.20	126.49	114.10
45	JA	298	PRO	CA-N-CD	-6.16	103.38	112.00
46	KF	426	GLN	N-CA-C	-6.16	107.00	114.75
23	1O	266	GLU	N-CA-C	6.14	120.84	112.68
33	4F	43	ASP	CA-C-N	6.14	131.07	122.36
33	4F	43	ASP	C-N-CA	6.14	131.07	122.36
45	AG	89	PRO	CA-N-CD	-6.13	103.42	112.00
46	KJ	426	GLN	N-CA-C	-6.11	107.65	114.62
46	EN	32	PRO	CA-N-CD	-6.09	103.47	112.00
45	DC	273	ALA	C-N-CD	-6.09	107.19	120.60
46	CF	86	ARG	CG-CD-NE	6.07	125.35	112.00
27	3C	229	ASN	CA-C-N	6.04	133.08	121.54
27	3C	229	ASN	C-N-CA	6.04	133.08	121.54
25	2R	411	VAL	N-CA-C	-6.04	107.97	113.71
46	HF	80	PRO	N-CD-CG	-6.02	94.16	103.20
46	KN	180	VAL	N-CA-C	-6.00	106.57	111.91
33	4F	22	LEU	CB-CA-C	-5.99	108.66	115.79
46	KF	257	LEU	CA-C-N	-5.96	116.82	123.02
46	KF	257	LEU	C-N-CA	-5.96	116.82	123.02
7	0G	38	GLU	CA-C-N	5.95	132.90	121.54
7	0G	38	GLU	C-N-CA	5.95	132.90	121.54
21	2L	626	ARG	CA-CB-CG	5.92	125.94	114.10
46	KJ	180	VAL	N-CA-C	-5.88	106.67	111.91
15	0X	45	GLN	CA-CB-CG	5.84	125.79	114.10
46	NL	282	ARG	CB-CA-C	-5.83	108.85	115.79
46	KN	426	GLN	N-CA-C	-5.83	107.41	114.75
46	RL	173	PRO	CA-CB-CG	-5.81	93.46	104.50
25	1R	454	ARG	CB-CG-CD	5.81	124.65	111.30
7	1G	177	MET	CA-C-N	5.79	130.80	122.35
7	1G	177	MET	C-N-CA	5.79	130.80	122.35
2	0B	33	GLN	N-CA-C	-5.78	107.22	114.56
46	ND	282	ARG	CB-CA-C	-5.74	108.96	115.79
37	5E	123	ARG	N-CA-CB	-5.74	107.63	114.17
1	3A	61	TYR	N-CA-C	5.71	118.16	111.02
15	2X	45	GLN	CA-CB-CG	5.69	125.48	114.10
46	NB	285	THR	CA-C-N	5.67	123.81	120.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
46	NB	285	THR	C-N-CA	5.67	123.81	120.24
46	BN	80	PRO	CA-N-CD	-5.65	104.09	112.00
21	2L	801	SER	CA-C-N	5.62	135.52	121.80
21	2L	801	SER	C-N-CA	5.62	135.52	121.80
33	4F	69	LYS	CA-C-N	5.58	132.02	121.97
33	4F	69	LYS	C-N-CA	5.58	132.02	121.97
45	FA	307	PRO	CA-N-CD	-5.58	104.18	112.00
46	NH	282	ARG	CB-CA-C	-5.55	109.18	115.79
36	5D	31	SER	N-CA-C	5.55	115.44	108.45
1	0A	90	GLN	CA-CB-CG	5.53	125.16	114.10
40	6G	243	ASN	N-CA-C	5.53	119.31	112.24
25	3R	411	VAL	N-CA-C	-5.53	108.46	113.71
45	VK	261	PRO	N-CA-CB	-5.50	98.34	103.46
1	1A	38	SER	N-CA-C	-5.50	104.75	112.12
45	RE	173	PRO	CA-N-CD	-5.48	104.33	112.00
45	GI	326	LYS	CB-CG-CD	-5.47	98.72	111.30
46	VL	59	TYR	CA-C-N	-5.47	118.58	123.33
46	VL	59	TYR	C-N-CA	-5.47	118.58	123.33
46	KH	285	THR	CA-C-N	5.46	123.68	120.24
46	KH	285	THR	C-N-CA	5.46	123.68	120.24
9	2N	6	VAL	N-CA-C	5.46	112.05	106.21
45	AG	35	GLN	CA-C-N	-5.45	112.75	120.49
45	AG	35	GLN	C-N-CA	-5.45	112.75	120.49
46	PN	380	ARG	CA-CB-CG	5.44	124.97	114.10
46	PN	357	PRO	CA-N-CD	-5.43	104.39	112.00
45	JG	45	GLY	N-CA-C	-5.42	108.23	115.32
4	2D	95	GLN	N-CA-C	-5.41	107.93	114.75
46	KJ	257	LEU	CA-C-N	-5.39	117.42	123.02
46	KJ	257	LEU	C-N-CA	-5.39	117.42	123.02
36	5D	20	LEU	CB-CA-C	-5.37	109.93	117.23
1	2A	61	TYR	N-CA-C	5.35	117.71	111.02
16	3B	206	ARG	N-CA-C	-5.33	107.79	114.56
45	AK	35	GLN	CA-C-N	-5.30	113.56	120.67
45	AK	35	GLN	C-N-CA	-5.30	113.56	120.67
36	5B	36	ARG	CA-C-N	5.29	130.86	122.61
36	5B	36	ARG	C-N-CA	5.29	130.86	122.61
17	1F	30	PRO	CA-N-CD	-5.27	104.62	112.00
46	UB	328	GLU	N-CA-CB	5.25	118.42	110.28
45	VK	261	PRO	CA-CB-CG	-5.25	94.53	104.50
45	HK	255	PHE	CA-C-N	-5.24	113.55	122.56
45	HK	255	PHE	C-N-CA	-5.24	113.55	122.56
4	1D	120	MET	CA-C-N	5.23	130.74	121.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	1D	120	MET	C-N-CA	5.23	130.74	121.80
10	3Q	65	PRO	CA-C-N	5.22	131.46	123.47
10	3Q	65	PRO	C-N-CA	5.22	131.46	123.47
1	1A	61	TYR	N-CA-C	5.20	117.52	111.02
31	3I	208	ASN	CB-CA-C	-5.19	109.61	115.79
36	5A	20	LEU	CB-CA-C	-5.19	110.17	117.23
46	OB	285	THR	CA-C-N	5.18	123.50	120.24
46	OB	285	THR	C-N-CA	5.18	123.50	120.24
26	2W	262	GLU	CA-C-N	-5.15	112.13	120.72
26	2W	262	GLU	C-N-CA	-5.15	112.13	120.72
5	1E	34	LEU	CA-C-N	5.13	135.16	125.66
5	1E	34	LEU	C-N-CA	5.13	135.16	125.66
4	0D	123	SER	CB-CA-C	-5.12	110.65	116.54
24	1P	224	GLU	N-CA-C	-5.12	107.69	114.04
45	TG	114	ILE	N-CA-C	-5.11	108.52	113.53
4	2D	65	ILE	N-CA-CB	5.10	117.48	110.54
46	OF	299	MET	CB-CG-SD	-5.10	97.41	112.70
29	2G	68	ARG	CG-CD-NE	5.07	123.16	112.00
46	DD	86	ARG	CB-CG-CD	-5.07	99.64	111.30
24	2P	394	GLN	N-CA-CB	5.05	117.72	110.20
11	0S	236	ARG	CB-CG-CD	-5.04	99.70	111.30
46	TH	293	MET	CB-CG-SD	-5.03	97.60	112.70
46	UJ	357	PRO	CA-N-CD	-5.02	104.97	112.00
4	2D	109	PRO	CA-N-CD	-5.01	104.99	112.00
45	WG	114	ILE	N-CA-C	-5.01	108.62	113.53

There are no chirality outliers.

All (48) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	0A	70	HIS	Peptide
2	0B	222	GLU	Peptide
2	0B	223	LYS	Peptide
2	0B	322	ARG	Peptide
5	0E	43	VAL	Peptide
6	0F	170	ARG	Sidechain
6	0F	182	ALA	Peptide
6	0F	7	ILE	Peptide
6	0F	88	ASN	Peptide
7	0G	120	TYR	Peptide
7	0G	45	MET	Peptide
11	0S	236	ARG	Sidechain

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Mol	Chain	Res	Type	Group
13	0U	526	ARG	Peptide
1	1A	38	SER	Peptide
4	1D	38	ILE	Peptide
5	1E	43	VAL	Peptide
7	1G	97	ASN	Peptide
21	1L	517	ARG	Sidechain
21	1L	579	VAL	Peptide
23	1O	271	ALA	Peptide
25	1R	42	PRO	Peptide
13	1U	488	PHE	Peptide
1	2A	19	ARG	Peptide
4	2D	38	ILE	Peptide
21	2L	578	ASN	Peptide
21	2L	892	ARG	Sidechain
10	2Q	72	LYS	Peptide
25	2R	42	PRO	Peptide
1	3A	38	SER	Peptide
31	3I	220	LYS	Peptide
25	3R	42	PRO	Peptide
13	3U	441	MET	Peptide
33	4F	44	ASP	Peptide
40	6G	242	ASP	Peptide
40	6G	270	THR	Peptide
44	8R	89	UNK	Peptide
46	BH	86	ARG	Sidechain
45	BI	256	GLN	Peptide
45	EA	36	MET	Peptide
45	EE	36	MET	Peptide
45	EI	36	MET	Peptide
45	EM	36	MET	Peptide
45	PA	256	GLN	Peptide
45	QA	256	GLN	Peptide
46	QD	299	MET	Peptide
45	RM	256	GLN	Peptide
45	TA	256	GLN	Peptide
46	UF	322	SER	Peptide

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	0A	1229	0	1156	68	0
1	1A	1229	0	1156	56	0
1	2A	1229	0	1156	58	0
1	3A	1229	0	1156	60	0
2	0B	2615	0	2539	126	0
3	0C	747	0	746	45	0
3	1C	747	0	746	40	0
4	0D	1619	0	1606	109	0
4	1D	1619	0	1606	99	0
4	2D	1619	0	1606	103	0
5	0E	1557	0	1513	65	0
5	1E	1557	0	1513	70	0
5	2E	1557	0	1513	90	0
5	3E	1557	0	1513	80	0
6	0F	1665	0	1658	112	0
7	0G	1378	0	1332	86	0
7	1G	1109	0	1072	69	0
8	0H	1046	0	1051	60	0
8	1H	3706	0	3719	230	0
9	0N	2305	0	2251	103	0
9	1N	3805	0	3734	141	0
9	2N	2305	0	2251	90	0
10	0Q	1548	0	1575	63	0
10	1Q	1548	0	1575	78	0
10	2Q	1548	0	1575	68	0
10	3Q	1548	0	1575	68	0
10	4Q	1548	0	1575	76	0
10	5Q	1548	0	1575	62	0
10	6Q	1548	0	1575	67	0
11	0S	2310	0	2349	94	0
11	1S	2310	0	2349	121	0
11	2S	2310	0	2349	108	0
11	3S	2310	0	2349	93	0
12	0T	2124	0	2067	80	0
12	1T	2321	0	2267	110	0
12	2T	2321	0	2267	122	0
12	3T	2321	0	2267	128	0
13	0U	4774	0	4750	217	0
13	1U	4774	0	4750	208	0
13	2U	4774	0	4750	224	0
13	3U	4774	0	4750	232	0
14	0V	1750	0	1740	49	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
14	1V	2168	0	2164	93	0
14	2V	2168	0	2164	122	0
14	3V	2168	0	2164	76	0
15	0X	935	0	911	50	0
15	1X	1202	0	1179	73	0
15	2X	1202	0	1179	49	0
15	3X	1202	0	1179	48	0
15	4X	1202	0	1179	61	0
16	1B	4066	0	4014	130	0
16	2B	2439	0	2418	92	0
16	3B	2437	0	2415	107	0
17	1F	1093	0	1080	66	0
18	1I	1546	0	1485	76	0
19	1J	3025	0	2936	184	0
20	1K	2425	0	2432	123	0
20	2K	2506	0	2541	119	0
21	1L	6842	0	6888	308	0
21	2L	5151	0	5185	216	0
21	3L	1660	0	1672	76	0
22	1M	2978	0	2957	99	0
22	2M	2978	0	2957	98	0
23	1O	2032	0	2152	160	0
23	2O	3173	0	3302	237	0
23	3O	2397	0	2483	112	0
24	1P	3060	0	3181	196	0
24	2P	1633	0	1646	102	0
25	1R	4244	0	4119	145	0
25	2R	4244	0	4119	159	0
25	3R	4244	0	4119	156	0
26	1W	1924	0	1867	74	0
26	2W	990	0	967	102	0
27	2C	2467	0	2457	101	0
27	3C	2467	0	2457	96	0
27	4C	2467	0	2457	102	0
28	2F	746	0	702	34	0
29	2G	848	0	871	45	0
30	2H	501	0	513	28	0
30	3H	501	0	513	72	0
30	4H	501	0	513	17	0
31	2I	1150	0	1150	81	0
31	3I	712	0	722	54	0
32	3D	1835	0	1817	52	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
33	4F	1618	0	1562	71	0
34	4R	5070	0	4976	167	0
34	5R	5070	0	4976	174	0
34	6R	5070	0	4976	152	0
34	7R	5070	0	4976	166	0
35	4S	1537	0	1565	94	0
35	5S	1537	0	1565	73	0
36	5A	1261	0	1230	49	0
36	5B	1261	0	1230	56	0
36	5C	1261	0	1230	53	0
36	5D	908	0	886	36	0
37	5E	1566	0	1570	78	0
37	5F	1750	0	1753	110	0
37	5G	1750	0	1753	85	0
37	5H	1210	0	1191	76	0
38	5I	515	0	109	0	0
38	5J	545	0	115	1	0
38	5K	400	0	84	0	0
39	6F	1140	0	1077	50	0
40	6G	1769	0	1772	127	0
41	6H	1362	0	1278	59	0
42	8L	1925	0	391	4	0
42	8N	1790	0	362	0	0
43	8P	1815	0	369	4	0
44	8R	2020	0	1200	24	0
45	AA	3408	0	3347	101	0
45	AC	3408	0	3347	132	0
45	AE	3408	0	3347	120	0
45	AG	3408	0	3347	101	0
45	AI	3408	0	3347	82	0
45	AK	3408	0	3347	96	0
45	AM	3408	0	3347	111	0
45	BA	3364	0	3302	136	0
45	BC	3364	0	3302	114	0
45	BE	3364	0	3302	119	0
45	BG	3364	0	3302	112	0
45	BI	3364	0	3302	107	0
45	BK	3364	0	3302	125	0
45	BM	3364	0	3302	131	0
45	CA	3408	0	3347	115	0
45	CC	3408	0	3347	138	0
45	CE	3408	0	3347	110	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
45	CG	3408	0	3347	135	0
45	CI	3408	0	3347	106	0
45	CK	3408	0	3347	116	0
45	CM	3408	0	3347	106	0
45	DA	3372	0	3305	67	0
45	DC	3389	0	3325	140	0
45	DE	3372	0	3306	117	0
45	DG	3389	0	3325	119	0
45	DI	3372	0	3306	115	0
45	DK	3389	0	3325	129	0
45	DM	3372	0	3306	142	0
45	EA	3408	0	3347	56	0
45	EC	3408	0	3347	172	0
45	EE	3408	0	3347	115	0
45	EG	3408	0	3347	122	0
45	EI	3408	0	3346	103	0
45	EK	3408	0	3347	109	0
45	EM	3408	0	3347	132	0
45	FA	3342	0	3289	115	0
45	FC	3364	0	3302	106	0
45	FE	3376	0	3309	89	0
45	FG	3408	0	3347	96	0
45	FI	3372	0	3306	98	0
45	FK	3364	0	3302	122	0
45	FM	3342	0	3289	60	0
45	GA	3342	0	3289	126	0
45	GC	3358	0	3297	96	0
45	GE	3358	0	3297	137	0
45	GG	3358	0	3297	115	0
45	GI	3358	0	3297	97	0
45	GK	3408	0	3347	117	0
45	GM	3342	0	3289	61	0
45	HA	3356	0	3298	109	0
45	HC	3356	0	3298	102	0
45	HE	3356	0	3298	118	0
45	HG	3356	0	3298	97	0
45	HI	3356	0	3298	108	0
45	HK	3356	0	3298	120	0
45	HM	3356	0	3298	76	0
45	IA	3364	0	3302	128	0
45	IC	3408	0	3347	121	0
45	IE	3364	0	3302	126	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
45	IG	3408	0	3347	140	0
45	II	3408	0	3347	109	0
45	IK	3364	0	3302	117	0
45	IM	3364	0	3302	136	0
45	JA	3364	0	3302	114	0
45	JC	3376	0	3309	107	0
45	JE	3408	0	3347	92	0
45	JG	3408	0	3347	116	0
45	JI	3404	0	3337	107	0
45	JK	3408	0	3347	125	0
45	JM	3364	0	3302	110	0
45	KA	3376	0	3309	120	0
45	KC	3372	0	3306	93	0
45	KE	3385	0	3322	113	0
45	KG	3408	0	3347	129	0
45	KI	3408	0	3347	101	0
45	KK	3408	0	3347	112	0
45	KM	3376	0	3309	133	0
45	LA	3408	0	3347	103	0
45	LC	3408	0	3347	103	0
45	LE	3400	0	3335	94	0
45	LG	3408	0	3347	101	0
45	LI	3381	0	3319	116	0
45	LK	3408	0	3347	117	0
45	LM	3408	0	3347	97	0
45	MA	3392	0	3329	107	0
45	MC	3368	0	3305	109	0
45	ME	3372	0	3306	111	0
45	MG	3400	0	3340	114	0
45	MI	3408	0	3347	105	0
45	MK	3384	0	3315	108	0
45	MM	3392	0	3329	103	0
45	NA	3408	0	3347	159	0
45	NC	3364	0	3302	112	0
45	NE	3408	0	3347	111	0
45	NG	3364	0	3302	120	0
45	NI	3408	0	3347	122	0
45	NK	3364	0	3302	132	0
45	NM	3408	0	3347	142	0
45	OA	3368	0	3305	169	0
45	OC	3368	0	3305	139	0
45	OE	3368	0	3305	133	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
45	OG	3368	0	3305	113	0
45	OI	3368	0	3305	116	0
45	OK	3368	0	3305	136	0
45	OM	3368	0	3305	124	0
45	PA	3342	0	3288	148	0
45	PC	3342	0	3289	134	0
45	PE	3342	0	3289	141	0
45	PG	3342	0	3289	148	0
45	PI	3342	0	3289	123	0
45	PK	3342	0	3289	114	0
45	PM	3342	0	3289	107	0
45	QA	3356	0	3298	110	0
45	QC	3356	0	3298	129	0
45	QE	3356	0	3298	126	0
45	QG	3356	0	3298	159	0
45	QI	3356	0	3298	143	0
45	QK	3356	0	3298	131	0
45	QM	3356	0	3298	122	0
45	RA	3356	0	3298	76	0
45	RC	3356	0	3298	128	0
45	RE	3356	0	3298	135	0
45	RG	3356	0	3298	150	0
45	RI	3356	0	3298	98	0
45	RK	3356	0	3298	120	0
45	RM	3356	0	3298	111	0
45	SA	3350	0	3293	58	0
45	SC	3350	0	3293	127	0
45	SE	3350	0	3293	125	0
45	SG	3350	0	3293	137	0
45	SI	3350	0	3293	116	0
45	SK	3350	0	3293	152	0
45	SM	3350	0	3293	116	0
45	TA	3350	0	3293	69	0
45	TC	3350	0	3293	154	0
45	TE	3350	0	3293	143	0
45	TG	3350	0	3293	119	0
45	TI	3350	0	3293	107	0
45	TK	3350	0	3293	121	0
45	TM	3350	0	3293	143	0
45	UA	3356	0	3298	111	0
45	UC	3356	0	3298	152	0
45	UE	3356	0	3298	137	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
45	UG	3356	0	3298	128	0
45	UI	3356	0	3298	114	0
45	UK	3356	0	3298	141	0
45	UM	3356	0	3298	143	0
45	VA	3372	0	3306	192	0
45	VC	3408	0	3347	120	0
45	VE	3372	0	3306	125	0
45	VG	3408	0	3347	161	0
45	VI	3372	0	3306	136	0
45	VK	3408	0	3347	160	0
45	VM	3372	0	3306	70	0
45	WA	3356	0	3297	144	0
45	WC	3408	0	3347	164	0
45	WE	3356	0	3298	125	0
45	WG	3408	0	3347	139	0
45	WI	3356	0	3298	110	0
45	WK	3408	0	3347	146	0
45	WM	3356	0	3298	96	0
46	AB	3366	0	3257	128	0
46	AD	3366	0	3257	127	0
46	AF	3366	0	3257	112	0
46	AH	3366	0	3257	114	0
46	AJ	3366	0	3257	101	0
46	AL	3366	0	3257	111	0
46	AN	3366	0	3257	129	0
46	BB	3366	0	3257	93	0
46	BD	3366	0	3257	151	0
46	BF	3366	0	3257	134	0
46	BH	3366	0	3257	153	0
46	BJ	3366	0	3257	114	0
46	BL	3366	0	3257	132	0
46	BN	3366	0	3257	177	0
46	CB	3366	0	3257	175	0
46	CD	3366	0	3257	118	0
46	CF	3366	0	3257	185	0
46	CH	3366	0	3257	126	0
46	CJ	3366	0	3257	128	0
46	CL	3366	0	3257	138	0
46	CN	3366	0	3257	90	0
46	DB	3366	0	3257	134	0
46	DD	3366	0	3257	124	0
46	DF	3366	0	3257	136	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
46	DH	3366	0	3257	117	0
46	DJ	3366	0	3257	131	0
46	DL	3366	0	3257	170	0
46	DN	3366	0	3257	69	0
46	EB	3366	0	3257	137	0
46	ED	3366	0	3257	128	0
46	EF	3366	0	3257	155	0
46	EH	3366	0	3257	138	0
46	EJ	3366	0	3257	132	0
46	EL	3366	0	3257	157	0
46	EN	3366	0	3257	103	0
46	FB	3366	0	3257	128	0
46	FD	3366	0	3257	143	0
46	FF	3366	0	3257	131	0
46	FH	3366	0	3257	134	0
46	FJ	3366	0	3257	118	0
46	FL	3366	0	3257	140	0
46	FN	3366	0	3257	104	0
46	GB	3366	0	3257	97	0
46	GD	3366	0	3257	136	0
46	GF	3366	0	3257	127	0
46	GH	3366	0	3257	122	0
46	GJ	3366	0	3257	108	0
46	GL	3366	0	3257	112	0
46	GN	3366	0	3257	116	0
46	HB	3366	0	3257	108	0
46	HD	3366	0	3257	133	0
46	HF	3366	0	3257	131	0
46	HH	3366	0	3257	130	0
46	HJ	3366	0	3257	120	0
46	HL	3366	0	3257	126	0
46	HN	3366	0	3257	134	0
46	IB	3366	0	3257	115	0
46	ID	3366	0	3257	132	0
46	IF	3366	0	3257	86	0
46	IH	3366	0	3257	132	0
46	IJ	3366	0	3257	135	0
46	IL	3366	0	3257	125	0
46	IN	3366	0	3257	147	0
46	JB	3366	0	3257	104	0
46	JD	3366	0	3257	89	0
46	JF	3366	0	3257	101	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
46	JH	3366	0	3257	108	0
46	JJ	3366	0	3257	109	0
46	JL	3366	0	3257	118	0
46	JN	3366	0	3257	146	0
46	KB	3366	0	3257	114	0
46	KD	3366	0	3257	99	0
46	KF	3366	0	3257	111	0
46	KH	3366	0	3257	105	0
46	KJ	3366	0	3257	107	0
46	KL	3366	0	3257	103	0
46	KN	3366	0	3257	129	0
46	LB	3366	0	3257	109	0
46	LD	3366	0	3257	111	0
46	LF	3366	0	3257	104	0
46	LH	3366	0	3257	102	0
46	LJ	3366	0	3257	115	0
46	LL	3366	0	3257	118	0
46	LN	3366	0	3257	109	0
46	MB	3366	0	3257	130	0
46	MD	3366	0	3257	113	0
46	MF	3366	0	3257	117	0
46	MH	3366	0	3257	97	0
46	MJ	3366	0	3257	149	0
46	ML	3366	0	3257	84	0
46	MN	3366	0	3257	119	0
46	NB	3304	0	3197	159	0
46	ND	3366	0	3257	153	0
46	NF	3304	0	3197	100	0
46	NH	3366	0	3257	140	0
46	NJ	3304	0	3197	128	0
46	NL	3366	0	3257	152	0
46	NN	3304	0	3197	122	0
46	OB	3366	0	3257	134	0
46	OD	3366	0	3257	146	0
46	OF	3366	0	3255	125	0
46	OH	3366	0	3257	109	0
46	OJ	3366	0	3257	128	0
46	OL	3366	0	3257	115	0
46	ON	3366	0	3257	164	0
46	PB	3366	0	3257	90	0
46	PD	3366	0	3255	157	0
46	PF	3366	0	3257	130	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
46	PH	3366	0	3257	128	0
46	PJ	3366	0	3257	140	0
46	PL	3366	0	3257	143	0
46	PN	3366	0	3257	164	0
46	QB	3366	0	3257	163	0
46	QD	3366	0	3257	124	0
46	QF	3366	0	3257	135	0
46	QH	3366	0	3257	148	0
46	QJ	3366	0	3257	126	0
46	QL	3366	0	3257	172	0
46	QN	3366	0	3257	69	0
46	RB	3366	0	3257	150	0
46	RD	3366	0	3257	136	0
46	RF	3366	0	3257	155	0
46	RH	3366	0	3257	139	0
46	RJ	3366	0	3257	135	0
46	RL	3366	0	3257	182	0
46	RN	3366	0	3257	69	0
46	SB	3366	0	3257	145	0
46	SD	3366	0	3257	148	0
46	SF	3366	0	3257	148	0
46	SH	3366	0	3257	138	0
46	SJ	3366	0	3257	141	0
46	SL	3366	0	3257	172	0
46	SN	3366	0	3257	72	0
46	TB	3366	0	3257	156	0
46	TD	3366	0	3257	145	0
46	TF	3366	0	3257	159	0
46	TH	3366	0	3257	136	0
46	TJ	3366	0	3257	145	0
46	TL	3366	0	3257	189	0
46	TN	3366	0	3257	78	0
46	UB	3366	0	3257	168	0
46	UD	3366	0	3257	143	0
46	UF	3366	0	3257	158	0
46	UH	3366	0	3257	146	0
46	UJ	3366	0	3257	174	0
46	UL	3366	0	3257	183	0
46	UN	3366	0	3257	132	0
46	VB	3366	0	3257	157	0
46	VD	3366	0	3257	149	0
46	VF	3366	0	3257	145	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
46	VH	3366	0	3257	154	0
46	VJ	3366	0	3257	139	0
46	VL	3366	0	3257	173	0
46	VN	3366	0	3257	169	0
46	WB	3366	0	3257	155	0
46	WD	3366	0	3257	151	0
46	WF	3366	0	3257	150	0
46	WH	3366	0	3257	131	0
46	WJ	3366	0	3257	136	0
46	WL	3366	0	3257	137	0
46	WN	3366	0	3257	158	0
47	AA	32	0	12	3	0
47	AC	32	0	12	1	0
47	AE	32	0	12	0	0
47	AG	32	0	12	1	0
47	AI	32	0	12	1	0
47	AK	32	0	12	1	0
47	AM	32	0	12	2	0
47	BA	32	0	12	1	0
47	BC	32	0	12	0	0
47	BE	32	0	12	4	0
47	BG	32	0	12	1	0
47	BI	32	0	12	3	0
47	BK	32	0	12	1	0
47	BM	32	0	12	2	0
47	CA	32	0	12	2	0
47	CC	32	0	12	1	0
47	CE	32	0	12	1	0
47	CG	32	0	12	2	0
47	CI	32	0	12	2	0
47	CK	32	0	12	1	0
47	CM	32	0	12	1	0
47	DA	32	0	12	2	0
47	DC	32	0	12	3	0
47	DE	32	0	12	2	0
47	DG	32	0	12	3	0
47	DI	32	0	12	4	0
47	DK	32	0	12	3	0
47	DM	32	0	12	2	0
47	EA	32	0	12	2	0
47	EC	32	0	12	3	0
47	EE	32	0	12	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
47	EG	32	0	12	2	0
47	EI	32	0	12	1	0
47	EK	32	0	12	3	0
47	EM	32	0	12	2	0
47	FA	32	0	12	3	0
47	FC	32	0	12	2	0
47	FE	32	0	12	1	0
47	FG	32	0	12	1	0
47	FI	32	0	12	0	0
47	FK	32	0	12	1	0
47	FM	32	0	12	2	0
47	GA	32	0	12	0	0
47	GC	32	0	12	1	0
47	GE	32	0	12	1	0
47	GG	32	0	12	1	0
47	GI	32	0	12	1	0
47	GK	32	0	12	1	0
47	GM	32	0	12	2	0
47	HA	32	0	12	1	0
47	HC	32	0	12	0	0
47	HE	32	0	12	2	0
47	HG	32	0	12	2	0
47	HI	32	0	12	0	0
47	HK	32	0	12	0	0
47	HM	32	0	12	1	0
47	IA	32	0	12	1	0
47	IC	32	0	12	0	0
47	IE	32	0	12	3	0
47	IG	32	0	12	2	0
47	II	32	0	12	0	0
47	IK	32	0	12	3	0
47	IM	32	0	12	3	0
47	JA	32	0	12	1	0
47	JC	32	0	12	2	0
47	JE	32	0	12	0	0
47	JG	32	0	12	2	0
47	JI	32	0	12	1	0
47	JK	32	0	12	2	0
47	JM	32	0	12	0	0
47	KA	32	0	12	2	0
47	KC	32	0	12	2	0
47	KE	32	0	12	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
47	KG	32	0	12	2	0
47	KI	32	0	12	1	0
47	KK	32	0	12	0	0
47	KM	32	0	12	3	0
47	LA	32	0	12	1	0
47	LC	32	0	12	3	0
47	LE	32	0	12	0	0
47	LG	32	0	12	2	0
47	LI	32	0	12	1	0
47	LK	32	0	12	3	0
47	LM	32	0	12	1	0
47	MA	32	0	12	0	0
47	MC	32	0	12	1	0
47	ME	32	0	12	1	0
47	MG	32	0	12	0	0
47	MI	32	0	12	0	0
47	MK	32	0	12	0	0
47	MM	32	0	12	4	0
47	NA	32	0	12	3	0
47	NC	32	0	12	0	0
47	NE	32	0	12	1	0
47	NG	32	0	12	1	0
47	NI	32	0	12	0	0
47	NK	32	0	12	1	0
47	NM	32	0	12	2	0
47	OA	32	0	12	0	0
47	OC	32	0	12	1	0
47	OF	32	0	12	4	0
47	OG	32	0	12	4	0
47	OI	32	0	12	3	0
47	OK	32	0	12	1	0
47	OM	32	0	12	1	0
47	PA	32	0	12	2	0
47	PD	32	0	12	3	0
47	PE	32	0	12	1	0
47	PG	32	0	12	4	0
47	PI	32	0	12	4	0
47	PK	32	0	12	4	0
47	PM	32	0	12	2	0
47	QA	32	0	12	2	0
47	QC	32	0	12	3	0
47	QE	32	0	12	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
47	QG	32	0	12	5	0
47	QI	32	0	12	3	0
47	QK	32	0	12	2	0
47	QM	32	0	12	2	0
47	RA	32	0	12	2	0
47	RC	32	0	12	3	0
47	RE	32	0	12	3	0
47	RG	32	0	12	2	0
47	RI	32	0	12	1	0
47	RK	32	0	12	3	0
47	RM	32	0	12	2	0
47	SA	32	0	12	2	0
47	SC	32	0	12	2	0
47	SE	32	0	12	2	0
47	SG	32	0	12	0	0
47	SI	32	0	12	2	0
47	SK	32	0	12	4	0
47	SM	32	0	12	1	0
47	TA	32	0	12	2	0
47	TC	32	0	12	3	0
47	TE	32	0	12	1	0
47	TG	32	0	12	1	0
47	TI	32	0	12	1	0
47	TK	32	0	12	2	0
47	TM	32	0	12	2	0
47	UA	32	0	12	2	0
47	UC	32	0	12	1	0
47	UE	32	0	12	3	0
47	UG	32	0	12	1	0
47	UI	32	0	12	2	0
47	UK	32	0	12	0	0
47	UM	32	0	12	1	0
47	VA	32	0	12	3	0
47	VC	32	0	12	2	0
47	VE	32	0	12	4	0
47	VG	32	0	12	4	0
47	VI	32	0	12	0	0
47	VK	32	0	12	1	0
47	VM	32	0	12	2	0
47	WA	32	0	12	3	0
47	WC	32	0	12	0	0
47	WE	32	0	12	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
47	WG	32	0	12	1	0
47	WI	32	0	12	3	0
47	WK	32	0	12	2	0
47	WM	32	0	12	1	0
48	AA	1	0	0	0	0
48	AC	1	0	0	0	0
48	AE	1	0	0	0	0
48	AG	1	0	0	0	0
48	AI	1	0	0	0	0
48	AK	1	0	0	0	0
48	AM	1	0	0	0	0
48	BA	1	0	0	0	0
48	BC	1	0	0	0	0
48	BE	1	0	0	0	0
48	BG	1	0	0	0	0
48	BI	1	0	0	0	0
48	BK	1	0	0	0	0
48	BM	1	0	0	0	0
48	CA	1	0	0	0	0
48	CC	1	0	0	0	0
48	CE	1	0	0	0	0
48	CG	1	0	0	0	0
48	CI	1	0	0	0	0
48	CK	1	0	0	0	0
48	CM	1	0	0	0	0
48	DA	1	0	0	0	0
48	DC	1	0	0	0	0
48	DE	1	0	0	0	0
48	DG	1	0	0	0	0
48	DI	1	0	0	0	0
48	DK	1	0	0	0	0
48	DM	1	0	0	0	0
48	EA	1	0	0	0	0
48	EC	1	0	0	0	0
48	EE	1	0	0	0	0
48	EG	1	0	0	0	0
48	EI	1	0	0	0	0
48	EK	1	0	0	0	0
48	EM	1	0	0	0	0
48	FA	1	0	0	0	0
48	FC	1	0	0	0	0
48	FE	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
48	FG	1	0	0	0	0
48	FI	1	0	0	0	0
48	FL	1	0	0	0	0
48	FM	1	0	0	0	0
48	GB	1	0	0	0	0
48	GC	1	0	0	0	0
48	GE	1	0	0	0	0
48	GG	1	0	0	0	0
48	GI	1	0	0	0	0
48	GL	1	0	0	0	0
48	GN	1	0	0	0	0
48	HA	1	0	0	0	0
48	HC	1	0	0	0	0
48	HE	1	0	0	0	0
48	HG	1	0	0	0	0
48	HI	1	0	0	0	0
48	HK	1	0	0	0	0
48	HM	1	0	0	0	0
48	IA	1	0	0	0	0
48	IC	1	0	0	0	0
48	IE	1	0	0	0	0
48	IG	1	0	0	0	0
48	II	1	0	0	0	0
48	IK	1	0	0	0	0
48	IM	1	0	0	0	0
48	JA	1	0	0	0	0
48	JC	1	0	0	0	0
48	JE	1	0	0	0	0
48	JG	1	0	0	0	0
48	JI	1	0	0	0	0
48	JK	1	0	0	0	0
48	JM	1	0	0	0	0
48	KA	1	0	0	0	0
48	KC	1	0	0	0	0
48	KE	1	0	0	0	0
48	KG	1	0	0	0	0
48	KI	1	0	0	0	0
48	KK	1	0	0	0	0
48	KM	1	0	0	0	0
48	LA	1	0	0	0	0
48	LC	1	0	0	0	0
48	LE	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
48	LG	1	0	0	0	0
48	LI	1	0	0	0	0
48	LK	1	0	0	0	0
48	LM	1	0	0	0	0
48	MA	1	0	0	0	0
48	MC	1	0	0	0	0
48	ME	1	0	0	0	0
48	MG	1	0	0	0	0
48	MI	1	0	0	0	0
48	MK	1	0	0	0	0
48	MM	1	0	0	0	0
48	NA	1	0	0	0	0
48	ND	1	0	0	0	0
48	NE	1	0	0	0	0
48	NG	1	0	0	0	0
48	NI	1	0	0	0	0
48	NK	1	0	0	0	0
48	NM	1	0	0	0	0
48	OA	1	0	0	0	0
48	OC	1	0	0	0	0
48	OE	1	0	0	0	0
48	OG	1	0	0	0	0
48	OI	1	0	0	0	0
48	OK	1	0	0	0	0
48	OM	1	0	0	0	0
48	PA	1	0	0	0	0
48	PC	1	0	0	0	0
48	PE	1	0	0	0	0
48	PG	1	0	0	0	0
48	PI	1	0	0	0	0
48	PK	1	0	0	0	0
48	PN	1	0	0	0	0
48	QA	1	0	0	0	0
48	QC	1	0	0	0	0
48	QE	1	0	0	0	0
48	QG	1	0	0	0	0
48	QI	1	0	0	0	0
48	QK	1	0	0	0	0
48	QM	1	0	0	0	0
48	RA	1	0	0	0	0
48	RC	1	0	0	0	0
48	RD	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
48	RG	1	0	0	0	0
48	RI	1	0	0	0	0
48	RK	1	0	0	0	0
48	RM	1	0	0	0	0
48	SA	1	0	0	0	0
48	SC	1	0	0	0	0
48	SE	1	0	0	0	0
48	SG	1	0	0	0	0
48	SI	1	0	0	0	0
48	SK	1	0	0	0	0
48	SM	1	0	0	0	0
48	TA	1	0	0	0	0
48	TB	1	0	0	0	0
48	TE	1	0	0	0	0
48	TF	1	0	0	0	0
48	TI	1	0	0	0	0
48	TK	1	0	0	0	0
48	TL	1	0	0	0	0
48	UA	1	0	0	0	0
48	UC	1	0	0	0	0
48	UE	1	0	0	0	0
48	UG	1	0	0	0	0
48	UI	1	0	0	0	0
48	UK	1	0	0	0	0
48	UM	1	0	0	0	0
48	VA	1	0	0	0	0
48	VC	1	0	0	0	0
48	VE	1	0	0	0	0
48	VG	1	0	0	0	0
48	VI	1	0	0	0	0
48	VK	1	0	0	0	0
48	VM	1	0	0	0	0
48	WA	1	0	0	0	0
48	WC	1	0	0	0	0
48	WE	1	0	0	0	0
48	WG	1	0	0	0	0
48	WI	1	0	0	0	0
48	WK	1	0	0	0	0
48	WM	1	0	0	0	0
49	AB	28	0	12	0	0
49	AD	28	0	12	0	0
49	AF	28	0	12	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
49	AH	28	0	12	2	0
49	AJ	28	0	12	2	0
49	AL	28	0	12	1	0
49	AN	28	0	12	1	0
49	BB	28	0	12	0	0
49	BD	28	0	12	2	0
49	BF	28	0	12	4	0
49	BH	28	0	12	2	0
49	BJ	28	0	12	2	0
49	BL	28	0	12	2	0
49	BN	28	0	12	0	0
49	CB	28	0	12	2	0
49	CD	28	0	12	2	0
49	CF	28	0	12	6	0
49	CH	28	0	12	1	0
49	CJ	28	0	12	4	0
49	CL	28	0	12	0	0
49	CN	28	0	12	0	0
49	DB	28	0	12	0	0
49	DD	28	0	12	2	0
49	DF	28	0	12	1	0
49	DH	28	0	12	2	0
49	DJ	28	0	12	2	0
49	DL	28	0	12	1	0
49	DN	28	0	12	1	0
49	EB	28	0	12	0	0
49	ED	28	0	12	1	0
49	EF	28	0	12	1	0
49	EH	28	0	12	4	0
49	EJ	28	0	12	0	0
49	EL	28	0	12	3	0
49	EN	28	0	12	5	0
49	FB	28	0	12	0	0
49	FD	28	0	12	0	0
49	FF	28	0	12	2	0
49	FH	28	0	12	4	0
49	FJ	28	0	12	1	0
49	FL	28	0	12	2	0
49	FN	28	0	12	1	0
49	GB	28	0	12	0	0
49	GD	28	0	12	2	0
49	GF	28	0	12	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
49	GH	28	0	12	0	0
49	GJ	28	0	12	1	0
49	GL	28	0	12	3	0
49	GN	28	0	12	1	0
49	HB	28	0	12	1	0
49	HD	28	0	12	1	0
49	HF	28	0	12	2	0
49	HH	28	0	12	2	0
49	HJ	28	0	12	2	0
49	HL	28	0	12	1	0
49	HN	28	0	12	1	0
49	IB	28	0	12	1	0
49	ID	28	0	12	0	0
49	IF	28	0	12	1	0
49	IH	28	0	12	3	0
49	IJ	28	0	12	3	0
49	IL	28	0	12	4	0
49	IN	28	0	12	3	0
49	JB	28	0	12	0	0
49	JD	28	0	12	1	0
49	JF	28	0	12	1	0
49	JH	28	0	12	1	0
49	JJ	28	0	12	3	0
49	JL	28	0	12	1	0
49	JN	28	0	12	1	0
49	KB	28	0	12	0	0
49	KD	28	0	12	0	0
49	KF	28	0	12	1	0
49	KH	28	0	12	1	0
49	KJ	28	0	12	0	0
49	KL	28	0	12	0	0
49	KN	28	0	12	0	0
49	LB	28	0	12	0	0
49	LD	28	0	12	0	0
49	LF	28	0	12	0	0
49	LH	28	0	12	0	0
49	LJ	28	0	12	1	0
49	LL	28	0	12	1	0
49	LN	28	0	12	2	0
49	MB	28	0	12	0	0
49	MD	28	0	12	0	0
49	MF	28	0	12	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
49	MH	28	0	12	1	0
49	MJ	28	0	12	3	0
49	ML	28	0	12	0	0
49	MN	28	0	12	0	0
49	NB	28	0	12	1	0
49	ND	28	0	12	0	0
49	NF	28	0	12	0	0
49	NH	28	0	12	0	0
49	NJ	28	0	12	1	0
49	NL	28	0	12	0	0
49	NN	28	0	12	0	0
49	OB	28	0	12	2	0
49	OD	28	0	12	2	0
49	OF	28	0	12	3	0
49	OH	28	0	12	0	0
49	OJ	28	0	12	2	0
49	OL	28	0	12	1	0
49	ON	28	0	12	2	0
49	PB	28	0	12	1	0
49	PD	28	0	12	0	0
49	PF	28	0	12	0	0
49	PH	28	0	12	2	0
49	PJ	28	0	12	1	0
49	PL	28	0	12	0	0
49	PN	28	0	12	3	0
49	QB	28	0	12	1	0
49	QD	28	0	12	1	0
49	QF	28	0	12	6	0
49	QH	28	0	12	1	0
49	QJ	28	0	12	3	0
49	QL	28	0	12	1	0
49	QN	28	0	12	1	0
49	RB	28	0	12	1	0
49	RD	28	0	12	0	0
49	RF	28	0	12	0	0
49	RH	28	0	12	1	0
49	RJ	28	0	12	3	0
49	RL	28	0	12	1	0
49	RN	28	0	12	1	0
49	SB	28	0	12	1	0
49	SD	28	0	12	0	0
49	SF	28	0	12	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
49	SH	28	0	12	0	0
49	SJ	28	0	12	1	0
49	SL	28	0	12	0	0
49	SN	28	0	12	1	0
49	TB	28	0	12	0	0
49	TD	28	0	12	1	0
49	TF	28	0	12	1	0
49	TH	28	0	12	1	0
49	TJ	28	0	12	1	0
49	TL	28	0	12	1	0
49	TN	28	0	12	1	0
49	UB	28	0	12	0	0
49	UD	28	0	12	2	0
49	UF	28	0	12	5	0
49	UH	28	0	12	1	0
49	UJ	28	0	12	3	0
49	UL	28	0	12	2	0
49	UN	28	0	12	1	0
49	VB	28	0	12	1	0
49	VD	28	0	12	1	0
49	VF	28	0	12	2	0
49	VH	28	0	12	2	0
49	VJ	28	0	12	4	0
49	VL	28	0	12	3	0
49	VN	28	0	12	2	0
49	WB	28	0	12	0	0
49	WD	28	0	12	3	0
49	WF	28	0	12	1	0
49	WH	28	0	12	2	0
49	WJ	28	0	12	0	0
49	WL	28	0	12	2	0
49	WN	28	0	12	0	0
All	All	1325153	0	1283777	44224	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 17.

All (44224) 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)
46:DF:281:TYR:CD1	46:DF:281:TYR:CG	1.80	1.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DF:281:TYR:CG	46:DF:281:TYR:CD2	1.80	1.65
45:UA:282:TYR:CD1	45:UA:282:TYR:CG	1.83	1.64
30:3H:174:PHE:CD1	30:3H:174:PHE:CG	1.79	1.62
30:3H:174:PHE:CG	30:3H:174:PHE:CD2	1.79	1.62
45:UA:282:TYR:CG	45:UA:282:TYR:CD2	1.89	1.60
46:DF:281:TYR:CE2	46:DF:281:TYR:CZ	1.91	1.57
45:UA:282:TYR:CE1	45:UA:282:TYR:CZ	1.94	1.55
46:CF:86:ARG:CD	46:CF:86:ARG:NE	1.70	1.54
46:DF:281:TYR:CZ	46:DF:281:TYR:CE1	1.91	1.54
45:UA:282:TYR:CZ	45:UA:282:TYR:CE2	1.94	1.53
34:4R:147:ARG:CD	34:4R:147:ARG:NE	1.69	1.53
23:1O:266:GLU:HA	45:UA:282:TYR:CE2	1.54	1.40
23:1O:266:GLU:C	23:1O:266:GLU:CA	1.94	1.39
46:CF:86:ARG:NE	46:DF:281:TYR:CE1	1.88	1.38
23:1O:266:GLU:C	45:UA:282:TYR:CD2	2.03	1.37
30:3H:174:PHE:CD2	34:4R:147:ARG:NE	1.93	1.35
13:3U:427:GLY:CA	13:3U:448:HIS:O	1.76	1.33
46:CF:86:ARG:NE	46:DF:281:TYR:CD1	1.93	1.33
46:CF:86:ARG:NE	46:DF:281:TYR:CZ	1.98	1.32
30:3H:174:PHE:CZ	30:3H:174:PHE:CE2	2.16	1.32
23:1O:267:ALA:N	45:UA:282:TYR:CD1	2.00	1.30
13:3U:427:GLY:HA3	13:3U:448:HIS:O	1.13	1.29
13:2U:427:GLY:HA3	13:2U:448:HIS:O	1.18	1.29
30:3H:174:PHE:CD2	30:3H:174:PHE:CE2	2.20	1.29
30:3H:174:PHE:CE2	34:4R:147:ARG:NE	2.01	1.29
30:3H:174:PHE:CD1	30:3H:174:PHE:CE1	2.21	1.28
13:1U:427:GLY:HA3	13:1U:448:HIS:O	1.15	1.27
30:3H:174:PHE:CG	34:4R:147:ARG:NE	2.04	1.26
23:1O:266:GLU:C	45:UA:282:TYR:CE2	2.14	1.24
23:1O:266:GLU:O	45:UA:282:TYR:CE2	1.89	1.24
30:3H:174:PHE:CZ	30:3H:174:PHE:CE1	2.26	1.22
23:1O:266:GLU:CA	45:UA:282:TYR:CD2	2.23	1.22
30:3H:174:PHE:CD1	34:4R:147:ARG:NE	2.08	1.21
46:CF:86:ARG:NE	46:DF:281:TYR:CE2	2.08	1.21
13:1U:427:GLY:CA	13:1U:448:HIS:O	1.87	1.21
46:DF:281:TYR:CD1	46:DF:281:TYR:CE1	2.28	1.21
13:0U:427:GLY:HA3	13:0U:448:HIS:O	1.07	1.20
23:1O:266:GLU:C	45:UA:282:TYR:CZ	2.22	1.18
45:UA:282:TYR:CD1	45:UA:282:TYR:CE1	2.31	1.18
23:1O:266:GLU:CA	45:UA:282:TYR:CE2	2.28	1.16
46:CF:86:ARG:NE	46:DF:281:TYR:CD2	2.14	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CF:86:ARG:NE	46:DF:281:TYR:CG	2.14	1.15
13:0U:427:GLY:CA	13:0U:448:HIS:O	1.94	1.15
46:CF:86:ARG:CD	46:DF:281:TYR:CD2	2.30	1.13
30:3H:174:PHE:CZ	34:4R:147:ARG:NE	2.18	1.11
46:DF:281:TYR:CD2	46:DF:281:TYR:CE2	2.38	1.11
30:3H:174:PHE:CE1	34:4R:147:ARG:NE	2.18	1.11
23:1O:266:GLU:C	45:UA:282:TYR:CG	2.29	1.11
23:1O:266:GLU:C	45:UA:282:TYR:CE1	2.29	1.10
46:CF:86:ARG:HD3	46:DF:281:TYR:CE2	1.87	1.09
13:2U:427:GLY:CA	13:2U:448:HIS:O	2.01	1.09
46:CH:70:PRO:O	46:CH:74:ASP:HB2	1.53	1.09
44:8R:87:UNK:O	44:8R:89:UNK:N	1.87	1.08
30:3H:174:PHE:CZ	34:4R:147:ARG:CD	2.38	1.07
4:1D:218:GLN:HG2	4:1D:219:ASN:H	1.21	1.06
23:1O:266:GLU:HA	45:UA:282:TYR:CD2	1.90	1.06
11:1S:111:LYS:HZ1	46:MF:157:GLU:HG3	1.13	1.06
46:CF:86:ARG:CD	46:DF:281:TYR:CE2	2.38	1.06
23:1O:266:GLU:N	45:UA:282:TYR:CG	2.25	1.04
45:GI:288:VAL:HG11	45:GI:327:ASP:HB3	1.40	1.04
45:KG:222:PRO:HD2	46:KH:324:LYS:HE2	1.36	1.03
30:3H:174:PHE:CE1	34:4R:147:ARG:CZ	2.42	1.03
16:3B:238:TYR:HA	45:JG:84:ARG:HH12	1.22	1.03
46:CF:86:ARG:CZ	46:DF:281:TYR:CD2	2.42	1.03
10:1Q:17:ILE:HD11	46:WD:125:GLU:HB3	1.40	1.02
40:6G:93:LYS:HZ1	45:UK:114:ILE:HG13	1.24	1.02
30:3H:174:PHE:CE1	34:4R:147:ARG:HD3	1.95	1.02
30:3H:174:PHE:CE1	34:4R:147:ARG:CD	2.41	1.02
23:1O:266:GLU:C	45:UA:282:TYR:CD1	2.37	1.02
46:SF:293:MET:HE2	46:SF:367:PHE:HB3	1.43	1.01
23:1O:266:GLU:HB3	45:UA:282:TYR:CZ	1.95	1.01
46:CF:86:ARG:CZ	46:DF:281:TYR:CE2	2.45	1.00
46:WN:299:MET:HE1	46:WN:305:PRO:HD3	1.44	1.00
23:1O:267:ALA:N	45:UA:282:TYR:CE1	2.30	1.00
45:GE:288:VAL:HG11	45:GE:327:ASP:HB3	1.39	0.99
4:2D:218:GLN:HG2	4:2D:219:ASN:H	1.27	0.99
11:2S:76:GLN:N	11:2S:76:GLN:HE21	1.60	0.99
46:BH:2:ARG:HB2	46:BH:131:GLN:HE22	1.26	0.98
27:2C:183:SER:HA	15:4X:54:ARG:HH22	1.29	0.98
13:2U:536:VAL:HA	13:2U:552:GLY:HA2	1.45	0.98
46:RL:259:PRO:HD2	46:RL:260:PHE:H	1.29	0.98
37:5H:26:GLY:HA2	45:OK:221:ARG:HH11	1.28	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:4S:209:ARG:HH21	46:WD:119:VAL:HG13	1.28	0.97
46:KN:70:PRO:O	46:KN:74:ASP:HB2	1.65	0.96
45:GG:288:VAL:HG11	45:GG:327:ASP:HB3	1.45	0.96
30:2H:200:TYR:O	30:2H:204:PHE:HB2	1.67	0.95
30:3H:174:PHE:CZ	34:4R:147:ARG:HD3	1.99	0.95
20:1K:215:VAL:HG13	45:GA:370:LYS:HE3	1.47	0.95
46:HL:109:GLY:HA2	46:HL:147:MET:HE2	1.48	0.95
46:OD:200:MET:HE2	46:OD:268:ILE:HG23	1.49	0.95
46:QF:209:ASP:HA	46:QF:213:ARG:HH21	1.27	0.94
46:QD:267:MET:HE2	46:QD:299:MET:HE3	1.46	0.94
23:1O:269:GLN:H	45:UA:282:TYR:HD2	1.09	0.94
23:1O:266:GLU:O	45:UA:282:TYR:CD2	2.19	0.94
19:1J:140:PHE:HE2	45:IE:369:ALA:HB1	1.30	0.94
45:VI:288:VAL:HG21	45:VI:327:ASP:HB3	1.48	0.94
1:0A:134:LYS:HG3	1:0A:139:GLN:HE21	1.33	0.94
46:CF:86:ARG:HD2	46:DF:281:TYR:CG	2.04	0.94
23:1O:266:GLU:CA	45:UA:282:TYR:CZ	2.51	0.93
45:DK:268:MET:HE2	45:DK:378:ILE:HG22	1.48	0.93
21:1L:553:MET:O	46:BF:320:ARG:NH2	2.01	0.93
30:3H:174:PHE:CZ	34:4R:147:ARG:NH1	2.37	0.93
30:3H:174:PHE:CZ	34:4R:147:ARG:CZ	2.51	0.93
6:0F:70:VAL:HG23	46:ED:362:LYS:HZ2	1.34	0.93
45:LI:31:GLN:HG3	45:LI:37:PRO:HG3	1.47	0.93
23:1O:143:MET:HE2	23:3O:470:LYS:HG2	1.47	0.93
45:FA:288:VAL:HG11	45:FA:327:ASP:HB3	1.51	0.93
45:WA:268:MET:HE2	45:WA:378:ILE:HG22	1.50	0.93
30:3H:174:PHE:CD1	34:4R:147:ARG:CZ	2.52	0.93
45:RE:280:LYS:HZ3	45:RE:283:HIS:HB2	1.34	0.93
46:TL:1:MET:HE3	46:TL:2:ARG:H	1.34	0.93
24:1P:292:GLU:HA	24:1P:295:LYS:HG2	1.51	0.92
46:JJ:77:ARG:HH22	46:JJ:83:GLN:HG3	1.34	0.92
46:SD:293:MET:HE2	46:SD:367:PHE:HB3	1.51	0.92
46:OB:86:ARG:HH12	46:PB:281:TYR:HB3	1.33	0.92
45:WI:288:VAL:HG11	45:WI:327:ASP:HB3	1.49	0.92
45:FI:329:ASN:HD21	46:FL:175:VAL:HG12	1.35	0.92
4:2D:166:ARG:HD2	4:2D:167:ILE:H	1.33	0.92
45:MG:96:LYS:HB3	46:MH:1:MET:HE1	1.51	0.92
45:TC:91:GLN:HG3	45:TC:121:ARG:HD2	1.49	0.92
46:BN:318:ARG:HD2	46:BN:358:PRO:HD3	1.51	0.91
46:FL:190:HIS:HD2	46:FL:411:ALA:HA	1.34	0.91
46:LF:362:LYS:HG2	46:LF:363:MET:HG3	1.53	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:1U:604:MET:HE3	13:1U:605:PRO:HD2	1.51	0.91
46:GF:290:THR:HA	46:GF:293:MET:HG2	1.53	0.91
46:IL:248:SER:HA	46:IL:252:LYS:HD3	1.53	0.91
45:WM:119:LEU:HD11	45:WM:156:ARG:HD3	1.51	0.91
45:CK:352:LYS:HZ1	46:CL:178:THR:HA	1.36	0.91
46:CF:86:ARG:CD	46:DF:281:TYR:CG	2.53	0.91
23:1O:150:ALA:HB1	23:3O:479:ILE:HG21	1.52	0.91
31:2I:134:LYS:HZ3	46:GD:328:GLU:HG3	1.36	0.90
45:IA:288:VAL:HG11	45:IA:327:ASP:HB3	1.53	0.90
23:1O:267:ALA:N	45:UA:282:TYR:CG	2.39	0.90
26:1W:189:ARG:HH12	45:LA:45:GLY:H	1.17	0.90
45:IA:261:PRO:HD2	45:IA:262:TYR:H	1.33	0.90
46:QH:74:ASP:HA	46:QH:77:ARG:HE	1.36	0.90
20:1K:78:GLU:OE2	20:1K:82:LYS:NZ	2.05	0.90
41:6H:176:ASN:O	41:6H:180:ASN:HB2	1.71	0.90
46:UL:178:THR:HB	46:UL:181:GLU:HG3	1.54	0.90
14:1V:21:ARG:HE	14:1V:22:ARG:H	1.19	0.89
20:2K:474:ILE:HA	20:2K:477:LYS:HD2	1.54	0.89
46:CF:86:ARG:NH1	46:DF:281:TYR:CD2	2.40	0.89
45:UM:288:VAL:HG21	45:UM:327:ASP:HB3	1.55	0.89
45:HA:104:ALA:HB2	45:HA:413:MET:HE2	1.51	0.89
46:QJ:321:MET:SD	45:QK:221:ARG:NH2	2.45	0.89
45:WA:288:VAL:HG21	45:WA:327:ASP:HB3	1.52	0.89
23:1O:266:GLU:CA	45:UA:282:TYR:CG	2.54	0.89
45:FG:288:VAL:HG11	45:FG:327:ASP:HB3	1.53	0.89
46:TF:200:MET:HE3	46:TF:268:ILE:HG21	1.54	0.89
10:0Q:35:LYS:NZ	11:0S:267:LYS:O	2.04	0.89
46:DL:285:THR:HG22	46:DL:287:PRO:HD2	1.54	0.89
45:QG:352:LYS:HZ2	46:QH:179:VAL:H	1.18	0.89
4:2D:54:PHE:HA	45:EK:221:ARG:HH12	1.38	0.89
45:WC:329:ASN:HD21	46:WF:175:VAL:HG12	1.38	0.89
5:3E:160:GLN:HE22	5:3E:162:LYS:HG3	1.38	0.89
33:4F:141:ARG:HD2	33:4F:142:PRO:HD2	1.52	0.89
45:NA:96:LYS:HZ2	46:NB:2:ARG:HD3	1.37	0.89
13:1U:536:VAL:HA	13:1U:552:GLY:HA2	1.54	0.89
46:UJ:350:LYS:HZ3	45:UK:181:VAL:H	1.21	0.89
45:UM:254:GLU:HG2	46:UN:98:GLY:HA2	1.51	0.89
23:1O:266:GLU:CA	45:UA:282:TYR:CD1	2.56	0.89
46:CF:86:ARG:CZ	46:DF:281:TYR:CG	2.56	0.89
45:PG:352:LYS:HZ3	46:PJ:179:VAL:H	1.17	0.89
45:WC:178:SER:OG	46:WD:347:ASN:ND2	2.06	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QK:352:LYS:HZ1	46:QL:179:VAL:H	1.17	0.88
46:WB:332:ASN:OD1	46:WB:336:LYS:NZ	2.06	0.88
45:BK:326:LYS:HG3	46:BN:220:PRO:HD2	1.55	0.88
15:0X:60:GLU:HB3	15:0X:64:ARG:HH12	1.36	0.88
46:RL:376:GLU:HB3	46:RL:380:ARG:HH12	1.37	0.88
46:VH:164:MET:HE1	46:VH:196:ALA:HA	1.55	0.88
45:DI:121:ARG:HH21	45:DI:124:LYS:HE2	1.38	0.88
6:0F:184:LYS:NZ	6:0F:213:ASN:O	2.06	0.88
20:1K:149:VAL:HG21	20:2K:473:LYS:HE3	1.53	0.88
46:CL:200:MET:HG2	46:CL:266:PHE:HB2	1.56	0.88
46:DB:347:ASN:ND2	45:DC:178:SER:OG	2.07	0.88
46:JD:406:MET:SD	46:ND:306:ARG:NH1	2.46	0.88
45:OM:397:LEU:HD11	46:ON:346:PRO:HD3	1.55	0.88
23:1O:201:GLU:OE2	23:1O:204:LYS:NZ	2.06	0.88
46:SB:55:THR:HG23	46:TB:283:ALA:HA	1.55	0.88
46:VD:299:MET:HG3	46:VD:301:CYS:H	1.39	0.88
45:GI:210:TYR:HH	46:GJ:323:THR:HG1	1.15	0.88
46:JF:326:VAL:HG12	46:JF:330:MET:HE1	1.55	0.88
46:RL:324:LYS:HG3	45:RM:210:TYR:HE1	1.38	0.88
11:0S:103:LYS:HE3	46:MB:261:PRO:HB3	1.55	0.87
45:HI:288:VAL:HG11	45:HI:327:ASP:HB3	1.54	0.87
45:PA:288:VAL:HG11	45:PA:327:ASP:HB3	1.54	0.87
21:1L:276:GLN:HE21	21:1L:351:ILE:HB	1.39	0.87
30:3H:174:PHE:CE2	34:4R:147:ARG:CD	2.57	0.87
13:3U:427:GLY:HA2	13:3U:448:HIS:O	1.74	0.87
37:5H:121:GLU:OE1	45:OM:370:LYS:NZ	2.07	0.87
45:EM:261:PRO:HD2	45:EM:262:TYR:H	1.37	0.87
46:MD:330:MET:HE2	46:MD:349:ILE:HG21	1.55	0.87
46:VJ:73:MET:HE1	46:VJ:92:PHE:HB3	1.54	0.87
45:UK:352:LYS:HZ1	46:UL:178:THR:HA	1.40	0.87
46:CF:86:ARG:CZ	46:DF:281:TYR:CZ	2.58	0.87
46:DB:267:MET:HE1	46:DB:301:CYS:HB2	1.56	0.87
45:IE:258:ASN:HD22	45:IE:352:LYS:HD2	1.40	0.87
45:OI:121:ARG:HD2	45:OI:124:LYS:HZ3	1.40	0.87
23:1O:266:GLU:CB	45:UA:282:TYR:CZ	2.58	0.87
23:2O:181:MET:SD	46:VL:279:GLN:NE2	2.48	0.87
46:AN:173:PRO:HG2	46:AN:380:ARG:HE	1.40	0.87
1:2A:19:ARG:HG2	1:2A:20:PRO:HD2	1.56	0.86
45:FK:90:GLU:HG3	45:FK:121:ARG:HH12	1.39	0.86
45:PI:288:VAL:HG21	45:PI:327:ASP:HB3	1.57	0.86
45:TC:211:ASP:HB3	45:TC:215:ARG:HH21	1.40	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:2U:463:GLN:HG3	13:2U:475:ILE:HD11	1.57	0.86
33:4F:172:LYS:HD2	33:4F:173:PRO:HD2	1.58	0.86
46:CF:86:ARG:HD2	46:DF:281:TYR:CD2	2.10	0.86
46:DJ:325:GLU:H	45:DK:221:ARG:HH12	1.19	0.86
45:KA:286:LEU:HD21	45:KA:371:VAL:HG13	1.57	0.86
46:TJ:299:MET:HG3	46:TJ:301:CYS:H	1.39	0.86
46:UJ:321:MET:HA	45:UK:221:ARG:HH22	1.38	0.86
46:VF:226:ASN:HD21	49:VF:501:GDP:HN1	1.22	0.86
1:0A:129:PRO:HD3	46:AB:362:LYS:HD2	1.55	0.86
45:GA:288:VAL:HG11	45:GA:327:ASP:HB3	1.55	0.86
46:NL:178:THR:HG22	46:NL:180:VAL:H	1.38	0.86
45:UA:282:TYR:CD2	45:UA:282:TYR:CE2	2.63	0.86
46:VB:132:GLY:HA3	46:VB:163:ILE:O	1.75	0.86
23:1O:266:GLU:CA	45:UA:282:TYR:CE1	2.59	0.86
46:CB:324:LYS:HE2	45:CC:222:PRO:HD2	1.58	0.86
46:NB:118:ASP:OD1	46:NB:122:LYS:NZ	2.09	0.86
46:UL:132:GLY:HA3	46:UL:163:ILE:O	1.74	0.86
11:2S:24:GLN:HE22	13:2U:230:LEU:H	1.18	0.86
46:HN:248:SER:HA	46:HN:252:LYS:HD3	1.55	0.86
45:LC:221:ARG:HH22	46:LD:321:MET:HA	1.39	0.86
45:NE:288:VAL:HG21	45:NE:327:ASP:HB3	1.58	0.86
46:OB:237:THR:HG23	46:OB:241:ARG:HH12	1.41	0.86
46:PD:248:SER:HA	46:PD:252:LYS:HD3	1.57	0.86
45:WK:398:MET:HE1	46:WL:345:ILE:HA	1.56	0.86
19:1J:119:LEU:HA	45:IE:221:ARG:HD2	1.56	0.86
26:2W:189:ARG:HB2	45:KM:46:ASP:HA	1.57	0.86
46:WF:66:MET:HE3	46:WF:147:MET:HE3	1.56	0.86
26:2W:183:SER:HG	45:KM:45:GLY:N	1.74	0.86
45:OE:221:ARG:NH1	46:OF:325:GLU:OE1	2.07	0.86
45:WM:177:VAL:HG22	46:WN:331:LEU:HD11	1.57	0.86
46:IL:200:MET:HG2	46:IL:266:PHE:HB2	1.58	0.86
46:KF:66:MET:HE2	46:KF:147:MET:HE3	1.57	0.86
45:AK:326:LYS:HE3	46:AN:220:PRO:HG2	1.56	0.86
46:UH:1:MET:HE3	46:UH:2:ARG:H	1.40	0.86
8:0H:412:GLY:HA2	8:0H:433:PRO:HB2	1.58	0.85
45:GG:258:ASN:HD22	45:GG:352:LYS:HD2	1.38	0.85
46:NB:191:GLN:O	46:NB:195:ASN:ND2	2.09	0.85
46:OB:319:GLY:HA2	46:OB:357:PRO:HG3	1.57	0.85
45:BA:90:GLU:OE1	45:CA:280:LYS:NZ	2.09	0.85
7:0G:19:ILE:HD12	46:IL:48:ASN:HD22	1.41	0.85
46:MJ:7:ILE:HG22	46:MJ:64:ILE:HB	1.57	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SB:15:GLN:OE1	46:SB:19:LYS:NZ	2.07	0.85
45:NA:349:THR:HG1	46:ND:176:SER:HG	1.24	0.85
45:QI:268:MET:HE2	45:QI:378:ILE:HG22	1.56	0.85
46:DD:326:VAL:HG12	46:DD:330:MET:HE1	1.57	0.85
46:TD:46:ARG:NH2	45:TE:76:ASP:OD2	2.08	0.85
46:TN:293:MET:HE2	46:TN:365:VAL:HG11	1.59	0.85
46:CB:164:MET:HB3	46:CB:197:ASP:H	1.42	0.85
46:IJ:86:ARG:HH21	45:JG:284:GLU:HG2	1.42	0.85
45:MC:326:LYS:HD3	46:MF:220:PRO:HG2	1.58	0.85
45:VA:121:ARG:HH21	45:VA:124:LYS:HD2	1.42	0.85
5:1E:96:ARG:NH1	5:1E:178:ASP:OD1	2.10	0.85
45:QG:319:TYR:HB3	45:QG:323:VAL:HG11	1.56	0.85
45:VG:301:MET:HE1	45:VG:307:PRO:HD3	1.59	0.85
14:1V:250:GLN:HA	14:1V:253:LYS:HZ3	1.41	0.85
45:JK:292:THR:HG21	45:JK:331:SER:HB2	1.58	0.85
23:1O:143:MET:HE3	23:3O:467:LYS:HD3	1.58	0.85
46:BB:273:LEU:H	46:BB:292:GLN:HE22	1.25	0.85
46:JD:8:GLN:HE21	46:JD:65:LEU:HD22	1.42	0.85
46:SL:293:MET:HE2	46:SL:367:PHE:HB3	1.59	0.85
45:UA:288:VAL:HG11	45:UA:327:ASP:HB3	1.58	0.85
45:WC:398:MET:HE1	46:WD:345:ILE:HA	1.59	0.85
45:LA:123:ARG:HH22	45:LA:161:TYR:HE2	1.24	0.84
46:QH:2:ARG:HH12	45:QI:97:GLU:HA	1.40	0.84
45:WC:324:VAL:HG11	45:WC:326:LYS:HE2	1.58	0.84
46:CF:86:ARG:CZ	46:DF:281:TYR:CD1	2.61	0.84
45:PK:288:VAL:HG21	45:PK:327:ASP:HB3	1.59	0.84
45:TM:301:MET:HG3	45:TM:303:ALA:H	1.42	0.84
21:1L:781:MET:SD	46:BD:320:ARG:NH1	2.50	0.84
45:BG:123:ARG:NH1	45:BG:127:ASP:OD1	2.10	0.84
46:HJ:226:ASN:HD21	49:HJ:501:GDP:HN1	1.21	0.84
45:RM:69:ASP:HB3	45:RM:75:ILE:HD11	1.58	0.84
23:1O:266:GLU:HA	23:1O:266:GLU:C	2.01	0.84
45:IG:36:MET:HG3	45:IG:37:PRO:HD2	1.57	0.84
46:UJ:226:ASN:HD21	49:UJ:501:GDP:HN1	1.21	0.84
20:1K:186:LEU:HB3	46:GD:362:LYS:HZ1	1.39	0.84
14:2V:86:ARG:NH2	46:LF:190:HIS:O	2.10	0.84
45:BC:222:PRO:HD2	46:BD:324:LYS:HE3	1.58	0.84
46:GH:293:MET:HE2	46:GH:365:VAL:HG11	1.57	0.84
45:OA:55:GLU:HG3	45:OA:57:GLY:H	1.42	0.84
46:OF:58:ARG:NH1	46:OF:59:TYR:O	2.10	0.84
45:SE:75:ILE:HD11	45:SE:92:LEU:HB3	1.58	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:WN:166:THR:OG1	46:WN:199:CYS:SG	2.35	0.84
30:3H:207:LYS:HZ1	30:3H:209:ARG:HB2	1.41	0.84
35:4S:81:HIS:H	35:4S:86:LYS:HE2	1.42	0.84
46:EB:289:LEU:HD11	46:EB:363:MET:HB3	1.58	0.84
45:SE:280:LYS:HA	45:SE:283:HIS:HD2	1.41	0.84
46:TJ:67:ASP:O	46:TJ:92:PHE:HA	1.78	0.84
37:5F:154:TYR:HE1	46:NH:35:THR:HG23	1.43	0.84
46:MH:200:MET:HE3	46:MH:268:ILE:HG21	1.60	0.84
46:NH:391:ARG:HE	46:NH:393:ALA:HB3	1.43	0.84
46:OB:226:ASN:HD21	49:OB:501:GDP:HN1	1.24	0.84
45:WC:239:THR:HG23	45:WC:243:ARG:HH12	1.43	0.84
23:1O:139:ASP:O	23:1O:143:MET:HB2	1.78	0.84
46:AN:190:HIS:HD2	46:AN:411:ALA:HA	1.42	0.84
45:DK:69:ASP:HB3	45:DK:75:ILE:HD11	1.59	0.84
46:IB:273:LEU:H	46:IB:292:GLN:HE22	1.24	0.84
45:VE:288:VAL:HG21	45:VE:327:ASP:HB3	1.59	0.84
6:0F:183:PRO:HB2	6:0F:184:LYS:HG3	1.60	0.84
45:BE:288:VAL:HG11	45:BE:327:ASP:HB3	1.57	0.84
46:PN:215:LEU:HD22	46:PN:217:LEU:HD23	1.58	0.84
45:QK:259:LEU:HD13	45:QK:268:MET:HE1	1.60	0.84
46:FD:262:ARG:NH2	46:FD:421:GLU:OE2	2.11	0.83
45:JM:406:HIS:HA	45:JM:409:VAL:HG22	1.60	0.83
45:PA:352:LYS:NZ	46:PD:178:THR:OG1	2.10	0.83
46:WF:73:MET:HA	46:WF:76:VAL:HG12	1.60	0.83
46:EB:318:ARG:HB2	46:EB:364:ALA:HB3	1.59	0.83
46:FJ:242:PHE:HB3	46:FJ:356:ILE:HD13	1.60	0.83
46:SH:67:ASP:O	46:SH:92:PHE:HA	1.77	0.83
46:CN:86:ARG:HE	46:CN:87:PRO:HD2	1.42	0.83
46:EJ:318:ARG:HB3	46:EJ:357:PRO:HA	1.60	0.83
46:IB:86:ARG:HE	46:IB:87:PRO:HD2	1.41	0.83
46:QL:267:MET:HE1	46:QL:301:CYS:HB2	1.61	0.83
45:VG:288:VAL:HG21	45:VG:327:ASP:HB3	1.60	0.83
21:1L:887:LYS:HB2	21:1L:925:TYR:HD2	1.44	0.83
46:BB:200:MET:HG2	46:BB:266:PHE:HB2	1.60	0.83
45:BC:288:VAL:HG11	45:BC:327:ASP:HB3	1.61	0.83
46:IH:6:HIS:O	46:IH:63:ALA:HA	1.78	0.83
45:LA:301:MET:HG3	45:LA:303:ALA:H	1.44	0.83
45:LE:259:LEU:HD21	45:LE:316:SER:HB2	1.61	0.83
45:MG:288:VAL:HG11	45:MG:327:ASP:HB3	1.58	0.83
46:MH:330:MET:HE2	46:MH:349:ILE:HG21	1.59	0.83
46:RJ:324:LYS:HB2	45:RK:221:ARG:HH12	1.42	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VG:320:ARG:HH12	45:VG:360:PRO:HA	1.41	0.83
24:2P:375:ALA:HA	24:2P:378:LYS:HE2	1.59	0.83
45:CC:79:ARG:NH2	45:CC:92:LEU:O	2.11	0.83
46:CF:86:ARG:NH1	46:DF:281:TYR:CE2	2.47	0.83
46:EB:324:LYS:HD2	45:EC:210:TYR:HB3	1.61	0.83
45:IM:316:SER:HB3	45:IM:378:ILE:HB	1.59	0.83
5:3E:131:LYS:NZ	5:3E:137:MET:SD	2.51	0.83
45:RG:352:LYS:HZ1	46:RH:179:VAL:H	1.22	0.83
46:SB:54:ALA:HA	46:TB:283:ALA:HB2	1.60	0.83
5:0E:92:LEU:O	5:0E:97:LYS:NZ	2.09	0.83
36:5B:140:VAL:O	46:NH:320:ARG:NH2	2.11	0.83
46:AJ:242:PHE:HB3	46:AJ:356:ILE:HD13	1.59	0.83
45:BC:221:ARG:NH1	46:BD:322:SER:OG	2.12	0.83
46:PL:102:ALA:HA	46:PL:403:MET:HE3	1.60	0.83
46:UB:186:THR:HG22	46:UB:190:HIS:HE1	1.44	0.83
13:2U:73:GLY:HA3	13:2U:105:ILE:HD11	1.59	0.83
10:3Q:48:GLU:HG3	10:3Q:161:ARG:HG2	1.60	0.83
45:OG:298:PRO:HA	45:OG:301:MET:HE1	1.60	0.83
46:QB:326:VAL:HG12	46:QB:330:MET:HE1	1.61	0.83
46:QL:273:LEU:H	46:QL:292:GLN:HE22	1.26	0.83
46:TH:166:THR:OG1	46:TH:199:CYS:SG	2.35	0.83
45:VA:74:VAL:HG23	45:VA:75:ILE:HD12	1.61	0.83
45:FC:280:LYS:HA	45:FC:283:HIS:HD2	1.42	0.83
46:ID:171:PRO:O	46:ID:380:ARG:NH2	2.11	0.83
45:KE:377:MET:HE2	45:KE:379:SER:HB3	1.59	0.83
45:CE:259:LEU:HB3	45:CE:268:MET:HE1	1.61	0.83
19:1J:216:GLN:OE1	46:IJ:279:GLN:NE2	2.11	0.83
14:1V:235:VAL:HA	14:1V:238:LYS:HD2	1.61	0.83
10:4Q:15:TYR:HE2	10:4Q:17:ILE:HB	1.44	0.83
45:AK:288:VAL:HG11	45:AK:327:ASP:HB3	1.61	0.83
45:RM:11:GLN:NE2	45:RM:71:GLU:OE2	2.10	0.83
46:UB:321:MET:HG3	45:UC:221:ARG:HH21	1.40	0.83
13:0U:458:LYS:HE3	13:0U:463:GLN:HB2	1.59	0.82
14:0V:86:ARG:NH2	46:LN:190:HIS:O	2.12	0.82
30:2H:194:LYS:NZ	30:2H:196:SER:OG	2.11	0.82
46:MB:299:MET:HG3	46:MB:301:CYS:H	1.44	0.82
46:PL:207:LEU:HB3	46:PL:225:LEU:HD22	1.61	0.82
45:VE:2:ARG:HH21	45:VE:242:LEU:HD13	1.44	0.82
14:1V:45:ARG:O	14:1V:47:GLY:N	2.10	0.82
45:IA:96:LYS:NZ	46:IB:1:MET:SD	2.53	0.82
46:TJ:238:CYS:SG	46:TJ:318:ARG:NH1	2.52	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WA:221:ARG:NH2	46:WB:322:SER:OG	2.12	0.82
46:WL:273:LEU:H	46:WL:292:GLN:HE22	1.26	0.82
24:2P:408:GLN:HB3	24:2P:412:LYS:HE2	1.61	0.82
25:3R:382:TYR:HA	46:EL:276:ARG:HE	1.44	0.82
46:BD:226:ASN:HD21	49:BD:501:GDP:HN1	1.24	0.82
46:BF:87:PRO:HA	46:BF:90:PHE:HD2	1.42	0.82
45:HM:398:MET:HE1	46:HN:345:ILE:HA	1.61	0.82
45:QG:9:VAL:HG12	45:QG:68:LEU:HB2	1.61	0.82
46:TF:242:PHE:HB3	46:TF:356:ILE:HD13	1.61	0.82
46:TL:2:ARG:HE	45:TM:97:GLU:HA	1.45	0.82
2:0B:12:LEU:HD21	46:IH:48:ASN:HB3	1.59	0.82
23:1O:266:GLU:CB	45:UA:282:TYR:CE1	2.62	0.82
24:1P:144:GLN:HB3	46:TJ:80:PRO:HG3	1.62	0.82
46:SL:21:TRP:HA	46:SL:24:ILE:HG22	1.60	0.82
46:VD:73:MET:HA	46:VD:76:VAL:HG12	1.59	0.82
45:CM:338:LYS:NZ	45:CM:340:THR:OG1	2.12	0.82
46:GN:273:LEU:H	46:GN:292:GLN:HE22	1.21	0.82
46:WD:164:MET:HB3	46:WD:197:ASP:H	1.43	0.82
40:6G:186:ASN:HB3	45:VE:308:ARG:HH22	1.45	0.82
46:DB:1:MET:HE3	46:DB:2:ARG:H	1.42	0.82
45:FA:259:LEU:HD23	45:FA:268:MET:HG2	1.61	0.82
45:NE:352:LYS:HE2	46:NH:178:THR:HA	1.59	0.82
46:UJ:319:GLY:HA2	46:UJ:357:PRO:HD3	1.62	0.82
8:0H:391:LYS:HZ2	8:1H:65:ILE:HD13	1.44	0.82
45:BK:288:VAL:HG11	45:BK:327:ASP:HB3	1.62	0.82
46:BL:403:MET:HE3	46:BL:404:ASP:H	1.44	0.82
45:DI:292:THR:HG21	45:DI:331:SER:HB2	1.62	0.82
46:DL:326:VAL:HG12	46:DL:330:MET:HE1	1.60	0.82
45:PE:207:GLU:HA	45:PE:210:TYR:HD2	1.44	0.82
13:0U:65:LYS:HD2	13:0U:66:THR:HG23	1.62	0.82
36:5B:54:ARG:NH1	36:5B:55:ALA:O	2.13	0.82
46:FL:242:PHE:HB3	46:FL:356:ILE:HD13	1.61	0.82
46:FN:273:LEU:H	46:FN:292:GLN:HE22	1.27	0.82
45:RG:268:MET:HE2	45:RG:380:ASN:HB2	1.61	0.82
10:1Q:29:ILE:HG13	10:1Q:34:ILE:HD11	1.62	0.82
11:1S:42:ASN:ND2	45:WC:124:LYS:O	2.12	0.82
31:3I:216:ARG:HH22	46:FL:128:ASP:HA	1.43	0.82
46:BH:248:SER:HA	46:BH:252:LYS:HE3	1.61	0.82
45:DM:301:MET:HG3	45:DM:303:ALA:H	1.44	0.82
46:FF:62:ARG:NH2	46:FF:127:CYS:SG	2.53	0.82
45:OK:222:PRO:O	46:OL:324:LYS:NZ	2.13	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PG:326:LYS:HZ1	46:PJ:219:THR:HA	1.45	0.82
45:QG:69:ASP:HB3	45:QG:75:ILE:HD11	1.61	0.82
26:2W:183:SER:HB3	45:KM:46:ASP:HB2	1.59	0.82
46:CF:345:ILE:HA	45:CG:398:MET:HE1	1.62	0.82
46:GL:11:GLN:NE2	49:GL:502:GDP:O2A	2.13	0.82
46:UB:2:ARG:HB2	46:UB:131:GLN:HE21	1.44	0.82
22:2M:10:VAL:HG21	22:2M:71:LEU:HD13	1.61	0.81
46:CF:86:ARG:CD	46:DF:281:TYR:CZ	2.63	0.81
46:ED:267:MET:HE2	46:ED:301:CYS:HB2	1.62	0.81
46:NJ:372:THR:HA	46:NJ:422:TYR:HE1	1.42	0.81
46:RJ:133:PHE:HB2	46:RJ:164:MET:HG2	1.62	0.81
45:WM:398:MET:HE1	46:WN:345:ILE:HA	1.60	0.81
22:1M:177:THR:O	22:1M:191:ARG:NH1	2.13	0.81
15:1X:6:GLU:HB3	15:1X:10:ARG:HH12	1.46	0.81
30:3H:174:PHE:CE2	34:4R:147:ARG:CZ	2.62	0.81
46:AF:200:MET:HE3	46:AF:268:ILE:HG21	1.62	0.81
45:JI:72:PRO:HD2	46:JJ:2:ARG:HH21	1.45	0.81
45:OK:394:LYS:HG2	45:OK:398:MET:HE1	1.62	0.81
45:PI:326:LYS:HG2	46:PL:212:PHE:HZ	1.45	0.81
46:RF:242:PHE:HB3	46:RF:356:ILE:HD13	1.62	0.81
46:WJ:215:LEU:HD22	46:WJ:217:LEU:HD23	1.61	0.81
19:1J:254:ASN:HB3	45:HI:85:GLN:HE22	1.44	0.81
21:2L:890:PHE:HA	21:2L:893:PHE:HB3	1.63	0.81
13:3U:536:VAL:HA	13:3U:552:GLY:HA2	1.59	0.81
45:BK:326:LYS:HE3	46:BN:220:PRO:HG2	1.61	0.81
46:CD:347:ASN:ND2	45:CE:178:SER:OG	2.13	0.81
45:DK:1:MET:HE1	46:DL:94:GLN:HE22	1.43	0.81
45:DM:9:VAL:HG12	45:DM:68:LEU:HB2	1.62	0.81
46:GD:178:THR:HG22	46:GD:180:VAL:H	1.46	0.81
45:HK:55:GLU:HG3	45:HK:57:GLY:H	1.46	0.81
46:JJ:152:ILE:HG23	46:JJ:164:MET:HE1	1.60	0.81
45:LC:40:LYS:HD3	45:LC:41:THR:N	1.96	0.81
45:PC:391:LEU:HG	45:PC:394:LYS:HZ2	1.46	0.81
46:RF:16:ILE:HD13	46:RF:136:THR:HG21	1.61	0.81
45:UK:348:PRO:HD2	46:UL:388:MET:HE2	1.63	0.81
45:WA:292:THR:HG21	45:WA:331:SER:HB3	1.62	0.81
24:1P:93:TRP:NE1	24:1P:95:ASN:OD1	2.12	0.81
24:1P:158:LYS:HE2	24:2P:499:GLU:HB3	1.61	0.81
30:2H:208:ASN:HD21	45:AC:26:LEU:HD21	1.44	0.81
12:3T:77:ASP:OD2	12:3T:78:THR:N	2.12	0.81
34:5R:305:CYS:SG	34:5R:307:LYS:NZ	2.53	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ED:135:ILE:HG13	46:ED:152:ILE:HD11	1.62	0.81
46:LH:238:CYS:SG	46:LH:318:ARG:NH1	2.54	0.81
46:PD:273:LEU:H	46:PD:292:GLN:HE22	1.28	0.81
45:PM:398:MET:HE1	46:PN:345:ILE:HA	1.63	0.81
45:RA:295:ALA:HB1	45:RA:377:MET:HE1	1.62	0.81
45:VA:387:VAL:HG12	45:VA:390:ARG:HH21	1.45	0.81
21:1L:494:GLU:HG3	34:4R:218:ILE:HD13	1.62	0.81
40:6G:201:MET:SD	46:VF:336:LYS:NZ	2.52	0.81
46:BD:1:MET:N	46:BD:48:ASN:OD1	2.14	0.81
46:DL:86:ARG:HH21	46:DL:87:PRO:HG2	1.45	0.81
46:FF:371:SER:O	46:FF:422:TYR:OH	1.99	0.81
46:HH:226:ASN:HD21	49:HH:501:GDP:HN1	1.28	0.81
46:VB:372:THR:O	46:VB:375:GLN:NE2	2.10	0.81
45:VE:31:GLN:HE22	45:VE:37:PRO:HG3	1.46	0.81
16:1B:72:TYR:OH	16:1B:77:ASP:N	2.13	0.81
16:3B:217:LYS:HA	16:3B:220:GLN:HE21	1.45	0.81
35:4S:209:ARG:NH2	46:WD:115:SER:O	2.14	0.81
34:6R:97:CYS:HB3	34:6R:180:ILE:HD13	1.61	0.81
46:NH:388:MET:HA	46:NH:391:ARG:HD3	1.62	0.81
45:OC:207:GLU:OE1	45:OC:304:LYS:NZ	2.12	0.81
46:SF:345:ILE:HG13	45:SG:398:MET:HE1	1.62	0.81
45:UG:31:GLN:HE22	45:UG:37:PRO:HB3	1.43	0.81
7:0G:21:ASN:O	7:0G:23:ALA:N	2.13	0.81
25:2R:250:GLN:OE1	25:2R:254:ASN:ND2	2.13	0.81
10:4Q:15:TYR:OH	10:4Q:163:ARG:NH2	2.13	0.81
46:LF:100:ASN:HB3	46:LF:103:LYS:HB2	1.62	0.81
45:NA:256:GLN:HG2	46:ND:397:TRP:HH2	1.46	0.81
46:SF:242:PHE:HB3	46:SF:356:ILE:HD13	1.60	0.81
46:VD:215:LEU:HB3	46:VD:217:LEU:HD23	1.62	0.81
21:2L:645:ASP:HB2	46:CL:362:LYS:HG2	1.62	0.81
24:2P:391:ARG:HG2	24:2P:395:GLN:HE22	1.46	0.81
11:2S:140:ARG:HD3	10:3Q:72:LYS:HG2	1.63	0.81
45:OE:398:MET:HE1	46:OF:345:ILE:HA	1.62	0.81
46:RL:299:MET:HG3	46:RL:301:CYS:H	1.45	0.81
14:2V:45:ARG:O	14:2V:47:GLY:N	2.14	0.81
26:2W:212:GLN:NE2	26:2W:213:GLN:OE1	2.13	0.81
35:5S:110:ARG:HH21	35:5S:148:LYS:HD2	1.45	0.81
41:6H:261:LYS:O	41:6H:264:GLN:NE2	2.13	0.81
45:KE:55:GLU:O	45:LE:285:GLN:NE2	2.14	0.81
45:LA:90:GLU:HG2	45:LA:121:ARG:HH12	1.45	0.81
46:PN:318:ARG:HB2	46:PN:364:ALA:HB3	1.63	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SK:2:ARG:HH21	45:SK:243:ARG:HA	1.46	0.81
46:JF:207:LEU:HB3	46:JF:225:LEU:HD22	1.62	0.81
45:JK:55:GLU:HG3	45:JK:57:GLY:H	1.45	0.81
45:OM:288:VAL:HG11	45:OM:327:ASP:HB3	1.62	0.81
46:PF:135:ILE:HG13	46:PF:152:ILE:HD11	1.63	0.81
45:VG:318:MET:HE1	45:VG:320:ARG:HD2	1.63	0.81
45:WI:31:GLN:HE22	45:WI:37:PRO:HD3	1.44	0.81
1:0A:152:LYS:NZ	34:7R:78:ILE:O	2.13	0.80
24:1P:340:ARG:HH21	45:TC:32:PRO:HD2	1.46	0.80
46:FJ:67:ASP:O	46:FJ:92:PHE:HA	1.81	0.80
45:KC:306:ASP:OD1	45:NC:282:TYR:OH	1.99	0.80
46:OL:213:ARG:O	46:OL:216:LYS:NZ	2.14	0.80
45:TC:348:PRO:HD2	46:TD:388:MET:HE1	1.63	0.80
45:UI:288:VAL:HG21	45:UI:327:ASP:HB3	1.62	0.80
27:4C:229:ASN:OD1	27:4C:230:ASP:N	2.09	0.80
46:GL:301:CYS:HB3	46:GL:377:MET:HE1	1.63	0.80
45:IK:288:VAL:HG21	45:IK:327:ASP:HB3	1.62	0.80
46:QL:347:ASN:ND2	45:QM:178:SER:OG	2.14	0.80
45:RG:258:ASN:HB3	45:RG:352:LYS:HD2	1.61	0.80
46:SH:6:HIS:CE1	46:SH:8:GLN:HE21	1.99	0.80
46:SL:67:ASP:O	46:SL:92:PHE:HA	1.80	0.80
46:TB:272:PRO:HD2	46:TB:361:LEU:HD21	1.63	0.80
23:1O:266:GLU:N	45:UA:282:TYR:CD1	2.50	0.80
46:AF:242:PHE:HB3	46:AF:356:ILE:HD13	1.62	0.80
46:IH:67:ASP:HA	46:IH:147:MET:HE1	1.63	0.80
46:ON:133:PHE:HB2	46:ON:164:MET:HG3	1.62	0.80
46:QJ:325:GLU:OE2	45:QK:221:ARG:NH1	2.14	0.80
46:TJ:242:PHE:HB3	46:TJ:356:ILE:HD13	1.63	0.80
46:UB:48:ASN:O	46:UB:62:ARG:NH1	2.14	0.80
46:UH:207:LEU:HB3	46:UH:225:LEU:HD22	1.63	0.80
13:0U:536:VAL:HA	13:0U:552:GLY:HA2	1.61	0.80
8:1H:139:ARG:NH2	45:HI:370:LYS:O	2.14	0.80
40:6G:138:LYS:NZ	45:VG:296:PHE:O	2.13	0.80
45:BE:326:LYS:NZ	46:BH:220:PRO:HD2	1.96	0.80
46:BL:226:ASN:HD21	49:BL:501:GDP:HN1	1.27	0.80
46:BN:86:ARG:HE	46:BN:87:PRO:HD2	1.46	0.80
45:CC:88:HIS:HA	45:DC:280:LYS:HZ3	1.45	0.80
45:FK:108:TYR:HA	45:FK:112:LYS:HE3	1.63	0.80
46:GH:68:LEU:HB3	46:GH:96:GLY:HA2	1.62	0.80
46:HB:271:ALA:HB2	46:HB:293:MET:HE3	1.63	0.80
45:OM:274:PRO:HG2	45:OM:371:VAL:HG21	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5A:98:LEU:O	36:5A:108:ARG:NH1	2.14	0.80
40:6G:93:LYS:O	45:UK:96:LYS:NZ	2.15	0.80
46:CF:321:MET:HB2	45:CG:221:ARG:HH21	1.46	0.80
46:CL:67:ASP:O	46:CL:92:PHE:HA	1.82	0.80
45:EM:69:ASP:HB3	45:EM:75:ILE:HD11	1.62	0.80
46:HL:207:LEU:HB3	46:HL:225:LEU:HD22	1.61	0.80
46:JB:299:MET:HG3	46:JB:301:CYS:H	1.45	0.80
46:LB:213:ARG:HE	46:LB:297:LYS:HE2	1.46	0.80
45:QC:269:LEU:HD22	45:QC:384:ILE:HD11	1.64	0.80
45:SE:326:LYS:HD2	46:SF:220:PRO:HD2	1.63	0.80
45:VG:209:ILE:HG13	45:VG:302:MET:HE1	1.63	0.80
11:2S:140:ARG:NH2	11:2S:142:ASP:OD2	2.15	0.80
26:2W:218:GLU:HA	26:2W:221:LYS:HE2	1.63	0.80
46:JB:8:GLN:HE21	46:JB:14:ASN:HA	1.45	0.80
45:RE:268:MET:HG2	45:RE:380:ASN:HB2	1.62	0.80
46:RL:324:LYS:HG3	45:RM:210:TYR:CE1	2.15	0.80
46:UN:8:GLN:NE2	46:UN:13:GLY:O	2.15	0.80
46:UN:235:GLY:HA3	46:UN:366:THR:HG21	1.63	0.80
7:0G:14:ARG:NH1	46:IL:59:TYR:OH	2.14	0.80
1:1A:129:PRO:HD3	46:AF:362:LYS:HD3	1.62	0.80
21:1L:594:GLN:HE22	25:1R:109:SER:HB2	1.47	0.80
23:1O:57:GLU:OE2	23:1O:60:ARG:NH2	2.13	0.80
23:1O:100:GLN:NE2	23:1O:101:MET:SD	2.55	0.80
16:3B:1:MET:HE1	46:LH:357:PRO:HG2	1.64	0.80
27:3C:128:ALA:HB1	27:3C:150:VAL:HG12	1.64	0.80
46:AB:135:ILE:HG13	46:AB:152:ILE:HD11	1.64	0.80
46:EF:324:LYS:HE2	45:EG:222:PRO:HD2	1.64	0.80
45:JK:253:THR:O	45:JK:256:GLN:NE2	2.14	0.80
45:MK:402:ARG:HE	45:MK:405:VAL:HG21	1.44	0.80
46:RD:200:MET:HG3	46:RD:266:PHE:HB2	1.62	0.80
46:UF:1:MET:HE1	46:UF:129:CYS:HB2	1.63	0.80
20:1K:194:LYS:HE2	46:GD:276:ARG:HB3	1.64	0.80
5:2E:29:ARG:NH2	5:2E:150:PHE:O	2.14	0.80
45:OE:178:SER:OG	46:OF:347:ASN:ND2	2.15	0.80
46:WD:281:TYR:HB3	46:WD:282:ARG:HH21	1.45	0.80
12:2T:56:MET:HE1	12:2T:70:PHE:HB3	1.62	0.80
16:3B:115:LYS:HZ2	16:3B:162:ASN:HB3	1.45	0.80
10:6Q:22:LEU:HB2	10:6Q:25:TRP:HB2	1.64	0.80
45:BC:221:ARG:HD2	46:BD:324:LYS:HZ1	1.46	0.80
46:CJ:324:LYS:HE3	45:CK:222:PRO:HD2	1.63	0.80
45:DK:258:ASN:HD21	46:DL:178:THR:HG23	1.46	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IG:256:GLN:HB2	46:IJ:397:TRP:HH2	1.47	0.80
46:JN:376:GLU:HB3	46:JN:380:ARG:HH12	1.45	0.80
45:PK:55:GLU:HG3	45:PK:57:GLY:H	1.46	0.80
23:3O:405:GLU:HB3	23:3O:406:ARG:HH21	1.45	0.80
37:5F:134:ILE:HA	37:5F:137:VAL:HG12	1.64	0.80
40:6G:105:LYS:HZ3	45:VI:176:GLN:HG2	1.45	0.80
46:AB:73:MET:HA	46:AB:76:VAL:HG12	1.61	0.80
46:DH:213:ARG:NH2	46:DH:297:LYS:O	2.14	0.80
45:HC:292:THR:HG21	45:HC:331:SER:HB3	1.62	0.80
45:II:123:ARG:NH1	45:II:127:ASP:OD1	2.14	0.80
46:NB:256:ASN:HB3	46:NB:350:LYS:HD3	1.62	0.80
46:ND:58:ARG:HH22	46:OD:280:GLN:HG3	1.47	0.80
45:PM:120:ASP:OD1	45:PM:123:ARG:NH2	2.14	0.80
45:UC:280:LYS:HZ3	45:UC:283:HIS:HB2	1.45	0.80
46:VF:66:MET:HE1	46:VF:147:MET:HB3	1.62	0.80
27:2C:114:ILE:HG23	27:2C:130:ARG:HH22	1.48	0.79
11:2S:129:ILE:HD12	11:2S:130:PRO:HD2	1.62	0.79
11:3S:180:GLU:HG2	11:3S:185:TYR:HB2	1.64	0.79
46:CH:325:GLU:OE1	45:CI:221:ARG:NH1	2.15	0.79
46:IH:218:THR:HG23	46:IH:219:THR:HG23	1.62	0.79
46:JL:189:VAL:HG13	46:JL:415:MET:HE3	1.62	0.79
45:NM:288:VAL:HG11	45:NM:327:ASP:HB3	1.64	0.79
46:QJ:1:MET:HG2	46:QJ:2:ARG:H	1.46	0.79
46:RD:257:LEU:HD21	46:RD:314:SER:HB2	1.64	0.79
4:1D:40:GLY:O	45:DG:79:ARG:NH1	2.14	0.79
10:6Q:84:LYS:HZ1	10:6Q:127:GLU:HG3	1.47	0.79
45:OA:292:THR:HG21	45:OA:331:SER:HB3	1.64	0.79
46:TD:207:LEU:HB3	46:TD:225:LEU:HD22	1.62	0.79
23:1O:265:PHE:O	45:UA:282:TYR:CD2	2.34	0.79
30:3H:174:PHE:CE1	34:4R:147:ARG:NH1	2.50	0.79
46:MJ:102:ALA:O	46:MJ:106:TYR:HB2	1.81	0.79
46:UD:178:THR:HB	46:UD:181:GLU:HG3	1.61	0.79
46:UD:321:MET:HA	45:UE:221:ARG:HH22	1.46	0.79
46:VN:193:VAL:O	46:VN:262:ARG:NH2	2.15	0.79
7:0G:38:GLU:HG3	7:0G:39:ARG:H	1.48	0.79
4:1D:214:LYS:O	4:1D:218:GLN:HB3	1.82	0.79
13:1U:212:THR:HG22	13:1U:214:THR:H	1.47	0.79
46:AD:67:ASP:O	46:AD:92:PHE:HA	1.83	0.79
45:OI:288:VAL:HG11	45:OI:327:ASP:HB3	1.65	0.79
30:3H:174:PHE:CE2	34:4R:147:ARG:HD2	2.16	0.79
10:3Q:16:SER:O	10:3Q:36:ARG:NH1	2.15	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:3Q:85:LYS:NZ	35:5S:245:GLU:OE1	2.16	0.79
37:5G:14:ARG:HG3	37:5G:15:THR:HG23	1.64	0.79
45:JG:72:PRO:HD2	46:JH:2:ARG:HH21	1.47	0.79
46:JN:267:MET:HE2	46:JN:299:MET:HB3	1.65	0.79
47:MM:501:GTP:O1G	46:MN:252:LYS:NZ	2.15	0.79
46:PB:319:GLY:HA2	46:PB:357:PRO:HG3	1.62	0.79
45:QC:268:MET:HE2	45:QC:378:ILE:HG22	1.64	0.79
10:3Q:57:ASN:HB2	10:3Q:158:ALA:HB2	1.65	0.79
34:4R:581:THR:OG1	34:4R:584:GLU:OE1	2.01	0.79
46:BL:174:LYS:HE2	46:BL:205:GLU:HG2	1.62	0.79
45:CG:244:PHE:HB2	45:CG:356:ASN:HD21	1.44	0.79
45:JK:326:LYS:HE2	46:JN:220:PRO:HD2	1.65	0.79
45:LK:40:LYS:HG3	45:LK:41:THR:H	1.48	0.79
46:NJ:44:LEU:HA	46:NJ:47:ILE:HD11	1.63	0.79
45:OM:222:PRO:O	46:ON:324:LYS:NZ	2.16	0.79
45:SC:326:LYS:HD3	46:SD:212:PHE:HZ	1.48	0.79
46:SJ:242:PHE:HB3	46:SJ:356:ILE:HD13	1.63	0.79
2:0B:171:MET:O	46:JJ:320:ARG:NH1	2.16	0.79
8:0H:358:GLU:OE1	8:0H:361:ARG:NH1	2.16	0.79
1:1A:152:LYS:NZ	34:4R:78:ILE:O	2.15	0.79
10:1Q:81:LYS:HE2	10:1Q:161:ARG:HD2	1.62	0.79
4:2D:53:ILE:O	45:EK:221:ARG:NH2	2.16	0.79
37:5E:172:ASN:HB2	37:5E:176:ASP:HB3	1.65	0.79
46:CJ:322:SER:OG	45:CK:221:ARG:NH1	2.15	0.79
46:ED:186:THR:HB	46:ED:415:MET:HE1	1.64	0.79
45:LI:115:VAL:HG11	45:LI:152:LEU:HD22	1.63	0.79
45:LM:292:THR:HG21	45:LM:331:SER:HB3	1.64	0.79
46:ON:55:THR:HG23	46:PN:283:ALA:HA	1.64	0.79
45:SC:229:ARG:HH12	45:SC:366:GLY:HA2	1.47	0.79
21:1L:396:ASN:HA	21:1L:399:HIS:CE1	2.18	0.79
21:2L:573:THR:HA	21:2L:580:ARG:HH12	1.48	0.79
10:2Q:60:THR:HG22	10:2Q:62:PRO:HD2	1.63	0.79
14:2V:21:ARG:HE	14:2V:22:ARG:H	1.30	0.79
14:2V:50:ASN:HB3	14:2V:57:LEU:HD13	1.63	0.79
37:5G:209:ARG:NH1	45:LK:431:ASP:OD2	2.16	0.79
46:BL:32:PRO:O	46:BL:83:GLN:NE2	2.15	0.79
46:BN:67:ASP:O	46:BN:92:PHE:HA	1.83	0.79
46:BN:248:SER:HA	46:BN:252:LYS:HD3	1.65	0.79
45:HC:288:VAL:HG11	45:HC:327:ASP:HB3	1.64	0.79
45:OE:294:SER:O	45:OE:300:ASN:ND2	2.16	0.79
15:0X:42:LYS:NZ	45:LA:56:THR:O	2.16	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:2U:166:LEU:HD23	13:2U:168:ASN:H	1.47	0.79
21:3L:45:ARG:HH22	21:3L:47:ARG:HB2	1.47	0.79
46:AH:283:ALA:HB2	46:MH:54:ALA:HA	1.64	0.79
46:HN:73:MET:HA	46:HN:76:VAL:HG12	1.65	0.79
46:JL:207:LEU:HB3	46:JL:225:LEU:HD22	1.63	0.79
45:NA:55:GLU:HG3	45:NA:57:GLY:H	1.48	0.79
45:NE:55:GLU:HG3	45:NE:57:GLY:H	1.46	0.79
45:OA:100:ALA:O	46:OB:251:ARG:NH1	2.16	0.79
45:PK:326:LYS:NZ	46:PN:220:PRO:O	2.11	0.79
45:SC:91:GLN:HE22	45:SC:125:LEU:HD21	1.46	0.79
45:UK:55:GLU:HG3	45:UK:57:GLY:H	1.48	0.79
45:WA:222:PRO:HD2	46:WB:324:LYS:HE2	1.63	0.79
13:0U:341:THR:HG23	13:0U:342:THR:HG23	1.65	0.79
7:1G:112:LYS:NZ	45:JA:364:PRO:O	2.14	0.79
4:2D:81:ARG:NH2	46:EJ:357:PRO:O	2.16	0.79
13:3U:172:ILE:HD13	13:3U:222:ILE:HD11	1.65	0.79
45:IA:69:ASP:HB3	45:IA:75:ILE:HD11	1.65	0.79
45:OA:253:THR:HA	45:OA:256:GLN:HE22	1.48	0.79
45:OC:298:PRO:HA	45:OC:301:MET:HE1	1.63	0.79
45:PC:69:ASP:O	45:PC:94:SER:HA	1.83	0.79
46:RH:68:LEU:HB3	46:RH:96:GLY:HA2	1.64	0.79
45:SG:280:LYS:HA	45:SG:283:HIS:HD2	1.47	0.79
24:1P:116:GLU:OE1	24:1P:120:ARG:NH1	2.16	0.78
4:2D:224:ARG:NH1	34:5R:493:GLY:HA3	1.98	0.78
46:BD:248:SER:HA	46:BD:252:LYS:HD2	1.62	0.78
46:HL:350:LYS:NZ	46:HL:352:SER:OG	2.17	0.78
46:IH:6:HIS:HD2	46:IH:134:GLN:HE22	1.31	0.78
45:KC:72:PRO:HG2	46:KD:1:MET:HE2	1.64	0.78
45:LA:292:THR:HG21	45:LA:331:SER:HB3	1.64	0.78
46:ML:135:ILE:HG13	46:ML:152:ILE:HD11	1.65	0.78
45:NG:88:HIS:NE2	45:OG:284:GLU:OE2	2.17	0.78
46:OH:222:TYR:O	46:OH:226:ASN:ND2	2.16	0.78
46:ON:6:HIS:HD2	46:ON:134:GLN:HE21	1.29	0.78
46:PL:189:VAL:HG13	46:PL:415:MET:HE3	1.65	0.78
45:SC:75:ILE:HD11	45:SC:92:LEU:HB3	1.65	0.78
45:WC:133:GLN:NE2	45:WC:251:ASP:OD1	2.16	0.78
45:WK:288:VAL:HG21	45:WK:327:ASP:HB3	1.63	0.78
8:1H:271:ARG:HH21	46:HF:362:LYS:HB2	1.49	0.78
15:1X:81:ARG:HH21	46:MF:276:ARG:HB2	1.49	0.78
25:3R:261:PHE:HB2	25:3R:271:LEU:HB2	1.63	0.78
12:3T:224:LYS:N	45:MK:196:GLU:OE1	2.17	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:4R:90:ARG:NH2	45:AE:26:LEU:O	2.16	0.78
37:5F:199:LYS:NZ	45:LG:392:ASP:OD1	2.16	0.78
45:EM:15:GLN:NE2	47:EM:501:GTP:O6	2.17	0.78
46:HH:207:LEU:HB3	46:HH:225:LEU:HD22	1.65	0.78
45:QA:318:MET:HE1	45:QA:320:ARG:HD3	1.65	0.78
46:WF:19:LYS:HZ1	46:WF:227:HIS:HA	1.48	0.78
9:0N:113:ARG:HA	9:0N:145:LEU:HD11	1.65	0.78
11:1S:271:ASP:OD2	10:2Q:36:ARG:NH1	2.12	0.78
1:2A:36:ARG:HH21	1:2A:48:GLN:HG3	1.48	0.78
35:4S:118:PHE:O	35:4S:122:GLN:NE2	2.16	0.78
46:CF:86:ARG:CZ	46:DF:281:TYR:CE1	2.66	0.78
46:FB:27:GLU:OE2	46:FB:241:ARG:NH2	2.17	0.78
45:OI:90:GLU:OE2	45:OI:121:ARG:NH1	2.16	0.78
45:RC:119:LEU:HD13	45:RC:122:ILE:HD11	1.64	0.78
45:RK:36:MET:HE3	45:RK:37:PRO:HD2	1.63	0.78
46:UL:48:ASN:O	46:UL:62:ARG:NH1	2.16	0.78
45:WI:31:GLN:NE2	45:WI:35:GLN:O	2.16	0.78
45:CE:301:MET:HE1	45:CE:307:PRO:HG3	1.66	0.78
46:AB:242:PHE:HB3	46:AB:356:ILE:HD13	1.64	0.78
45:BK:101:ASN:OD1	46:BL:252:LYS:NZ	2.16	0.78
45:PE:222:PRO:HG2	46:PF:324:LYS:HE2	1.63	0.78
46:PN:285:THR:N	46:PN:288:GLU:OE2	2.14	0.78
46:TH:282:ARG:HE	46:TH:283:ALA:H	1.32	0.78
46:TL:186:THR:HG23	46:TL:415:MET:HE1	1.64	0.78
45:VC:352:LYS:HZ3	46:VF:179:VAL:H	1.30	0.78
1:1A:135:SER:HB3	1:1A:138:TRP:HD1	1.48	0.78
10:1Q:74:PRO:HD2	10:1Q:169:ASP:HA	1.65	0.78
20:2K:379:ARG:HD2	45:GG:282:TYR:HD2	1.48	0.78
24:2P:354:LYS:HZ3	46:TN:359:LYS:HG2	1.47	0.78
31:3I:279:MET:O	31:3I:282:GLN:NE2	2.16	0.78
45:RC:55:GLU:HG3	45:RC:57:GLY:H	1.47	0.78
46:RF:54:ALA:HA	46:SF:283:ALA:HB2	1.65	0.78
46:UH:186:THR:HA	46:UH:189:VAL:HG12	1.66	0.78
10:2Q:35:LYS:HG3	10:2Q:37:ILE:HD11	1.66	0.78
37:5F:44:ARG:NH2	45:NC:55:GLU:O	2.17	0.78
45:BI:288:VAL:HG11	45:BI:327:ASP:HB3	1.64	0.78
45:KA:338:LYS:HZ2	45:KA:340:THR:H	1.30	0.78
46:LF:135:ILE:HG13	46:LF:152:ILE:HD11	1.64	0.78
45:PE:55:GLU:HG3	45:PE:57:GLY:H	1.49	0.78
46:TD:68:LEU:HD23	46:TD:147:MET:HE1	1.65	0.78
46:VF:73:MET:HA	46:VF:76:VAL:HG12	1.64	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VL:86:ARG:HH11	46:VL:87:PRO:HD2	1.49	0.78
45:WC:41:THR:HG22	45:WC:42:ILE:H	1.47	0.78
10:0Q:36:ARG:HD2	11:0S:273:ILE:HG12	1.66	0.78
8:1H:115:ARG:NH2	46:HL:280:GLN:H	1.81	0.78
20:1K:80:ARG:NH2	22:1M:282:GLU:O	2.16	0.78
21:1L:481:LYS:NZ	46:CF:280:GLN:OE1	2.17	0.78
26:1W:243:ILE:HG22	46:LB:276:ARG:HH21	1.47	0.78
46:BF:68:LEU:HB3	46:BF:96:GLY:HA2	1.65	0.78
46:CD:325:GLU:OE1	45:CE:221:ARG:NH1	2.15	0.78
45:DK:215:ARG:HH12	45:DK:299:ALA:HB1	1.47	0.78
46:JN:275:SER:O	46:JN:279:GLN:NE2	2.17	0.78
46:LF:371:SER:O	46:LF:422:TYR:OH	2.02	0.78
46:LH:200:MET:HG2	46:LH:266:PHE:HB2	1.65	0.78
45:MK:282:TYR:OH	45:MK:370:LYS:O	2.01	0.78
46:QD:347:ASN:ND2	45:QE:178:SER:OG	2.17	0.78
45:RM:104:ALA:HB2	45:RM:413:MET:HE2	1.65	0.78
46:SF:62:ARG:HH22	46:SF:127:CYS:HB2	1.48	0.78
46:VJ:73:MET:HA	46:VJ:76:VAL:HG12	1.64	0.78
17:1F:122:GLU:HA	17:1F:125:MET:HE3	1.65	0.78
12:1T:285:ARG:HH22	13:1U:52:ARG:H	1.32	0.78
46:BD:301:CYS:HB3	46:BD:377:MET:HE1	1.66	0.78
46:HF:356:ILE:HD12	46:HF:357:PRO:HD2	1.66	0.78
45:KI:326:LYS:NZ	46:KL:220:PRO:O	2.16	0.78
45:LM:157:LEU:HD22	45:LM:166:LYS:HD3	1.66	0.78
46:RH:272:PRO:HD3	46:RH:289:LEU:HD21	1.65	0.78
46:TD:324:LYS:NZ	45:TE:222:PRO:O	2.16	0.78
46:VB:242:PHE:HB3	46:VB:356:ILE:HD13	1.65	0.78
45:VG:221:ARG:NH2	46:VH:322:SER:O	2.16	0.78
23:2O:140:VAL:HA	23:2O:143:MET:HE2	1.66	0.78
30:3H:174:PHE:CD1	34:4R:147:ARG:CD	2.67	0.78
46:BF:226:ASN:HD21	49:BF:501:GDP:HN1	1.31	0.78
46:DD:292:GLN:HG2	46:DD:298:ASN:HD21	1.46	0.78
45:NC:99:ALA:HA	45:NC:105:ARG:HD2	1.65	0.78
46:QB:237:THR:HG23	46:QB:241:ARG:HH21	1.48	0.78
46:QL:114:ASP:OD1	46:QL:115:SER:N	2.16	0.78
46:VH:273:LEU:H	46:VH:292:GLN:HE22	1.30	0.78
1:3A:19:ARG:HG2	1:3A:20:PRO:HD2	1.66	0.78
16:3B:134:ARG:O	16:3B:136:ARG:NH1	2.16	0.78
25:3R:8:LEU:HB3	25:3R:9:PRO:HD2	1.67	0.78
45:AC:222:PRO:HD2	46:AD:324:LYS:HG3	1.64	0.78
45:BE:329:ASN:HD21	46:BH:175:VAL:HA	1.49	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CB:14:ASN:HD22	46:CB:72:THR:HG22	1.49	0.78
46:ID:130:LEU:HB3	46:ID:162:ARG:HH12	1.46	0.78
45:LM:115:VAL:HG11	45:LM:152:LEU:HD22	1.64	0.78
46:MF:274:THR:OG1	46:MF:279:GLN:OE1	2.02	0.78
46:QD:267:MET:HE3	46:QD:301:CYS:HB2	1.65	0.78
46:TD:385:PHE:HZ	46:TD:408:PHE:HD2	1.29	0.78
45:TM:271:SER:OG	45:TM:301:MET:SD	2.42	0.78
46:VL:54:ALA:HA	46:WL:283:ALA:HB2	1.66	0.78
9:0N:147:GLU:HG2	9:0N:148:LYS:HD2	1.66	0.77
4:2D:6:ARG:HD3	4:2D:7:LEU:HD23	1.66	0.77
46:CL:325:GLU:HA	46:CL:328:GLU:HG2	1.65	0.77
46:FD:242:PHE:HB3	46:FD:356:ILE:HD13	1.66	0.77
45:PC:260:VAL:HB	46:PF:397:TRP:HH2	1.49	0.77
45:UC:288:VAL:HG21	45:UC:327:ASP:HB3	1.65	0.77
45:UG:89:PRO:HD2	45:VE:280:LYS:HE2	1.65	0.77
46:VB:164:MET:HE3	46:VB:196:ALA:HA	1.66	0.77
45:WG:348:PRO:HD2	46:WJ:388:MET:HE2	1.64	0.77
10:0Q:22:LEU:HB2	10:0Q:25:TRP:HB2	1.66	0.77
46:DN:273:LEU:H	46:DN:292:GLN:HE22	1.29	0.77
46:FH:67:ASP:O	46:FH:92:PHE:HA	1.83	0.77
45:GC:298:PRO:HA	45:GC:301:MET:HE1	1.67	0.77
45:HM:121:ARG:HA	45:HM:124:LYS:HE3	1.66	0.77
46:SL:375:GLN:HE21	46:SL:422:TYR:HD2	1.31	0.77
45:TC:2:ARG:HD2	45:TC:133:GLN:HE22	1.49	0.77
46:VD:6:HIS:O	46:VD:63:ALA:HA	1.84	0.77
4:0D:187:PHE:HA	45:FA:221:ARG:HG3	1.66	0.77
24:1P:200:LEU:HD11	46:TH:276:ARG:HG2	1.64	0.77
36:5A:138:ARG:HH12	46:ND:357:PRO:HD2	1.49	0.77
44:8R:87:UNK:C	44:8R:89:UNK:N	2.44	0.77
46:AL:54:ALA:HA	46:BL:283:ALA:HB2	1.65	0.77
46:HB:49:VAL:O	46:HB:62:ARG:NH2	2.16	0.77
46:MJ:218:THR:HG23	46:MJ:219:THR:HG23	1.65	0.77
46:PB:273:LEU:H	46:PB:292:GLN:HE22	1.32	0.77
46:PL:273:LEU:H	46:PL:292:GLN:HE22	1.32	0.77
46:SL:6:HIS:O	46:SL:63:ALA:HA	1.83	0.77
46:TB:237:THR:HA	46:TB:240:LEU:HD13	1.67	0.77
46:VN:273:LEU:H	46:VN:292:GLN:HE22	1.29	0.77
45:WI:221:ARG:HA	46:WJ:324:LYS:HZ1	1.47	0.77
46:BD:73:MET:HA	46:BD:76:VAL:HG12	1.64	0.77
45:GI:90:GLU:OE1	45:GI:121:ARG:NH2	2.16	0.77
46:HF:267:MET:HE3	46:HF:374:ILE:HG22	1.64	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:IL:6:HIS:O	46:IL:63:ALA:HA	1.85	0.77
45:OE:292:THR:HG21	45:OE:331:SER:HB3	1.65	0.77
46:TH:247:ASN:OD1	45:TI:11:GLN:NE2	2.16	0.77
45:UC:292:THR:HG21	45:UC:331:SER:HB3	1.65	0.77
46:UL:68:LEU:HB3	46:UL:96:GLY:HA2	1.66	0.77
21:3L:45:ARG:HH12	21:3L:47:ARG:H	1.32	0.77
34:4R:32:THR:HG1	34:4R:39:CYS:HG	1.26	0.77
46:GJ:281:TYR:HB3	46:GJ:282:ARG:HH21	1.50	0.77
46:HJ:371:SER:O	46:HJ:422:TYR:OH	2.01	0.77
45:KC:234:VAL:HG21	45:KC:302:MET:HE1	1.67	0.77
45:KI:178:SER:OG	46:KJ:347:ASN:ND2	2.17	0.77
46:PJ:273:LEU:H	46:PJ:292:GLN:HE22	1.32	0.77
46:QL:86:ARG:HH21	46:QL:87:PRO:HG2	1.48	0.77
45:SC:48:ALA:HB1	45:SC:243:ARG:HB2	1.65	0.77
46:VL:58:ARG:NH1	46:VL:59:TYR:O	2.18	0.77
46:WF:164:MET:HG3	46:WF:197:ASP:HB2	1.66	0.77
7:1G:132:ARG:HH22	45:JA:82:THR:HA	1.50	0.77
11:1S:20:ASN:ND2	46:WF:74:ASP:OD1	2.17	0.77
45:BE:88:HIS:NE2	45:CE:284:GLU:OE2	2.16	0.77
46:BH:86:ARG:HE	46:BH:87:PRO:HD2	1.48	0.77
46:FB:313:ALA:HB3	46:FB:349:ILE:HG22	1.66	0.77
46:GJ:242:PHE:HB3	46:GJ:356:ILE:HD13	1.67	0.77
46:GN:67:ASP:O	46:GN:92:PHE:HA	1.84	0.77
45:LI:71:GLU:OE2	46:LJ:2:ARG:NH2	2.17	0.77
45:NK:279:GLU:HG2	45:NK:280:LYS:H	1.49	0.77
45:PG:178:SER:OG	46:PH:347:ASN:ND2	2.17	0.77
46:PL:248:SER:HA	46:PL:252:LYS:HD3	1.66	0.77
46:UL:207:LEU:HB3	46:UL:225:LEU:HD22	1.66	0.77
45:WG:222:PRO:HD2	46:WH:324:LYS:HD2	1.65	0.77
4:1D:85:VAL:HG22	4:1D:86:ALA:H	1.49	0.77
16:2B:43:ARG:NH1	16:2B:78:GLU:OE2	2.16	0.77
30:3H:171:LEU:HD11	30:3H:176:LYS:HB2	1.67	0.77
45:EE:91:GLN:HE22	45:EE:125:LEU:HD21	1.49	0.77
46:FD:128:ASP:OD1	46:FD:129:CYS:N	2.18	0.77
45:LM:36:MET:HG3	45:LM:38:SER:H	1.48	0.77
46:PH:248:SER:HA	46:PH:252:LYS:HD2	1.67	0.77
45:QG:140:SER:OG	47:QG:501:GTP:O2B	2.03	0.77
46:QJ:257:LEU:HD11	46:QJ:314:SER:HB2	1.66	0.77
45:RG:33:ASP:HA	45:RG:85:GLN:HE21	1.49	0.77
46:TF:178:THR:HB	46:TF:181:GLU:HG3	1.67	0.77
18:1I:139:ARG:HH11	46:KF:359:LYS:HD3	1.49	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:6F:78:VAL:O	39:6F:82:GLN:HB2	1.84	0.77
45:BK:123:ARG:NH1	45:BK:127:ASP:OD2	2.18	0.77
46:CH:67:ASP:HB3	46:CH:73:MET:HE1	1.67	0.77
45:HG:221:ARG:NH1	46:HH:325:GLU:OE1	2.18	0.77
46:KJ:70:PRO:O	46:KJ:74:ASP:HB2	1.84	0.77
45:OC:288:VAL:HG21	45:OC:327:ASP:HB3	1.66	0.77
45:OC:292:THR:HG21	45:OC:331:SER:HB3	1.67	0.77
45:PE:288:VAL:HG11	45:PE:327:ASP:HB3	1.66	0.77
46:PL:164:MET:HB3	46:PL:197:ASP:H	1.49	0.77
45:QK:140:SER:OG	47:QK:501:GTP:O2B	2.02	0.77
45:RK:211:ASP:OD2	45:RK:215:ARG:NH1	2.16	0.77
46:SH:242:PHE:HB3	46:SH:356:ILE:HD13	1.67	0.77
46:SJ:54:ALA:HA	46:TJ:283:ALA:HB2	1.66	0.77
46:SL:207:LEU:HB3	46:SL:225:LEU:HD22	1.65	0.77
3:0C:94:GLY:O	3:0C:98:GLN:NE2	2.17	0.77
21:1L:525:LEU:HD13	46:BF:320:ARG:HB2	1.67	0.77
22:1M:88:ILE:HG22	22:1M:164:ASP:HB2	1.67	0.77
1:3A:152:LYS:NZ	34:6R:78:ILE:O	2.18	0.77
31:3I:216:ARG:HH21	31:3I:217:ASN:HB2	1.50	0.77
21:3L:127:GLN:HG3	21:3L:195:ARG:HB2	1.64	0.77
34:4R:318:TYR:HB3	34:4R:321:MET:HE2	1.66	0.77
45:AG:288:VAL:HG11	45:AG:327:ASP:HB3	1.65	0.77
46:AJ:295:ASP:OD2	46:AJ:297:LYS:NZ	2.18	0.77
45:CK:224:TYR:HA	45:CK:227:LEU:HD12	1.65	0.77
45:HK:271:SER:OG	45:HK:301:MET:SD	2.43	0.77
46:ID:7:ILE:HG23	46:ID:135:ILE:HG12	1.67	0.77
46:IH:73:MET:HA	46:IH:76:VAL:HG12	1.67	0.77
46:ML:213:ARG:HB3	46:ML:297:LYS:HZ1	1.50	0.77
46:MN:135:ILE:HG13	46:MN:152:ILE:HD11	1.66	0.77
45:NA:394:LYS:HE3	46:NB:346:PRO:HG2	1.65	0.77
45:OG:242:LEU:HD11	45:OG:252:ILE:HD11	1.66	0.77
46:PJ:293:MET:HE2	46:PJ:367:PHE:HB2	1.67	0.77
45:SG:217:LEU:HD11	45:SG:367:ASP:HB2	1.65	0.77
45:VK:209:ILE:HD11	45:VK:230:LEU:HD23	1.66	0.77
19:1J:342:LYS:HZ3	46:IN:276:ARG:HB3	1.49	0.77
15:1X:130:ASP:HA	15:1X:133:LYS:HE2	1.65	0.77
45:GI:285:GLN:HE22	45:GI:287:SER:HB2	1.50	0.77
46:IB:6:HIS:NE2	46:IB:8:GLN:OE1	2.18	0.77
45:JC:55:GLU:HG3	45:JC:57:GLY:H	1.49	0.77
45:LK:406:HIS:HA	45:LK:409:VAL:HG12	1.67	0.77
45:NK:180:ALA:HA	46:NL:350:LYS:NZ	2.00	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:NL:167:PHE:HE2	46:NL:233:MET:HG3	1.50	0.77
46:OD:178:THR:HG22	46:OD:180:VAL:H	1.48	0.77
45:PC:324:VAL:HG11	45:PC:326:LYS:HE2	1.67	0.77
46:RL:152:ILE:HG23	46:RL:164:MET:HE1	1.65	0.77
46:SB:21:TRP:HA	46:SB:24:ILE:HG12	1.64	0.77
46:TB:48:ASN:O	46:TB:62:ARG:NH1	2.16	0.77
46:UJ:372:THR:HA	46:UJ:422:TYR:HE2	1.50	0.77
45:WG:40:LYS:HD2	45:WG:41:THR:HG23	1.66	0.77
11:0S:278:ARG:NH2	46:WB:115:SER:O	2.18	0.76
23:1O:97:LYS:HG2	23:1O:101:MET:HE1	1.67	0.76
34:7R:112:ARG:HH12	46:BD:276:ARG:HD3	1.49	0.76
46:ED:412:GLU:HA	46:ED:415:MET:HE3	1.67	0.76
46:HH:267:MET:HE3	46:HH:374:ILE:HG22	1.65	0.76
45:OA:100:ALA:HB1	46:OB:252:LYS:HG3	1.67	0.76
46:PD:224:ASP:HA	46:PD:227:HIS:HD2	1.48	0.76
45:QE:268:MET:HE2	45:QE:378:ILE:HG22	1.66	0.76
45:TE:326:LYS:HE3	46:TF:220:PRO:HG2	1.65	0.76
8:1H:90:ARG:NH2	45:HK:278:ALA:O	2.17	0.76
19:1J:140:PHE:CE2	45:IE:369:ALA:HB1	2.19	0.76
19:1J:365:ILE:O	19:1J:367:ARG:NH1	2.17	0.76
10:1Q:38:THR:HG22	35:4S:208:GLN:HE22	1.48	0.76
10:1Q:47:LEU:HD13	10:1Q:162:ILE:HD11	1.65	0.76
11:2S:271:ASP:OD2	10:4Q:36:ARG:NH2	2.19	0.76
12:2T:68:GLY:HA2	12:2T:112:PRO:HA	1.67	0.76
13:2U:226:ILE:HG23	45:WG:43:GLY:HA2	1.65	0.76
37:5F:13:ASN:ND2	37:5F:22:LYS:O	2.18	0.76
41:6H:342:VAL:HG12	41:6H:344:ASN:H	1.51	0.76
46:AL:102:ALA:HB2	46:AL:403:MET:HE2	1.67	0.76
46:DD:293:MET:HE3	46:DD:367:PHE:HB2	1.67	0.76
46:DD:371:SER:O	46:DD:422:TYR:OH	2.03	0.76
46:DL:200:MET:HG3	46:DL:266:PHE:HB2	1.67	0.76
45:EC:15:GLN:O	45:EC:228:ASN:ND2	2.17	0.76
46:GN:290:THR:HA	46:GN:293:MET:SD	2.26	0.76
45:IC:292:THR:HG21	45:IC:331:SER:HB3	1.66	0.76
46:ND:156:ARG:NH1	46:ND:194:GLU:O	2.19	0.76
46:RL:156:ARG:HD2	46:RL:164:MET:HE2	1.67	0.76
45:SE:91:GLN:HG2	45:SE:121:ARG:HE	1.50	0.76
45:SM:254:GLU:HG2	46:SN:98:GLY:HA2	1.68	0.76
46:TD:256:ASN:HD22	46:TD:350:LYS:HD3	1.49	0.76
46:TL:318:ARG:HB2	46:TL:364:ALA:HB3	1.65	0.76
45:VC:55:GLU:HG3	45:VC:57:GLY:H	1.48	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:1H:90:ARG:HH12	45:HK:279:GLU:HA	1.50	0.76
8:1H:303:GLU:HA	8:1H:307:GLN:HG2	1.65	0.76
25:1R:312:GLN:NE2	46:CD:359:LYS:O	2.18	0.76
36:5B:102:TYR:OH	45:KE:390:ARG:NH2	2.19	0.76
45:AI:284:GLU:OE2	45:MI:88:HIS:NE2	2.17	0.76
46:BF:67:ASP:O	46:BF:92:PHE:HA	1.85	0.76
46:BN:86:ARG:NE	46:BN:87:PRO:HD2	2.00	0.76
45:HG:69:ASP:OD1	45:HG:70:LEU:N	2.18	0.76
46:JN:376:GLU:HA	46:JN:379:LYS:HE2	1.67	0.76
45:MC:258:ASN:HD22	45:MC:352:LYS:HD2	1.49	0.76
45:NI:271:SER:OG	45:NI:301:MET:SD	2.43	0.76
46:QH:200:MET:HG2	46:QH:266:PHE:HB2	1.66	0.76
45:RG:259:LEU:HB3	45:RG:268:MET:HE1	1.67	0.76
45:UC:215:ARG:NH2	45:UC:300:ASN:OD1	2.19	0.76
46:WN:8:GLN:HE21	46:WN:65:LEU:HG	1.50	0.76
1:1A:148:ASN:HB3	1:1A:151:HIS:HB2	1.67	0.76
24:1P:82:LEU:HG	13:2U:503:SER:HB2	1.67	0.76
9:2N:57:GLY:O	9:2N:144:ARG:NH1	2.18	0.76
46:EB:31:ASP:OD2	46:EB:37:HIS:ND1	2.18	0.76
45:HC:326:LYS:HG2	46:HF:212:PHE:HE2	1.50	0.76
46:IB:287:PRO:O	46:IB:291:GLN:NE2	2.19	0.76
46:KL:260:PHE:HB2	46:KL:263:LEU:HD13	1.66	0.76
46:OL:215:LEU:HB3	46:OL:217:LEU:HD23	1.65	0.76
46:QH:67:ASP:O	46:QH:92:PHE:HA	1.85	0.76
46:QH:73:MET:HA	46:QH:76:VAL:HG12	1.68	0.76
46:SF:251:ARG:HD3	45:SG:105:ARG:HH12	1.51	0.76
46:UB:324:LYS:HZ1	45:UC:221:ARG:HA	1.51	0.76
46:UF:273:LEU:H	46:UF:292:GLN:HE22	1.32	0.76
46:VN:129:CYS:SG	46:VN:131:GLN:NE2	2.58	0.76
45:CC:9:VAL:HG12	45:CC:68:LEU:HB2	1.66	0.76
46:CF:86:ARG:CD	46:DF:281:TYR:CD1	2.67	0.76
46:CH:382:ALA:HB2	46:CH:415:MET:HE1	1.65	0.76
46:CL:382:ALA:HB2	46:CL:415:MET:HE1	1.67	0.76
46:RJ:257:LEU:HD21	46:RJ:314:SER:HB2	1.65	0.76
46:VN:248:SER:HA	46:VN:252:LYS:HD3	1.68	0.76
14:0V:105:LYS:NZ	14:0V:110:GLU:OE2	2.19	0.76
19:1J:171:TYR:OH	46:HH:54:ALA:O	2.03	0.76
21:1L:151:ARG:NH2	46:CH:357:PRO:O	2.18	0.76
10:3Q:77:VAL:HG23	10:3Q:131:GLN:HE21	1.50	0.76
25:3R:424:ASN:ND2	25:3R:489:ASP:OD2	2.18	0.76
45:AE:297:GLU:OE2	45:AE:300:ASN:ND2	2.18	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BM:288:VAL:HG11	45:BM:327:ASP:HB3	1.68	0.76
46:DF:83:GLN:O	46:EF:281:TYR:OH	2.03	0.76
46:FD:371:SER:O	46:FD:422:TYR:OH	2.02	0.76
46:GB:66:MET:HE1	46:GB:151:LEU:HD13	1.67	0.76
45:JK:326:LYS:NZ	46:JN:218:THR:O	2.18	0.76
45:LA:338:LYS:HZ2	45:LA:339:ARG:H	1.31	0.76
46:ML:107:THR:OG1	46:ML:108:GLU:OE1	2.03	0.76
45:PC:55:GLU:HG3	45:PC:57:GLY:H	1.49	0.76
45:QA:215:ARG:NH2	45:QA:299:ALA:O	2.19	0.76
45:QA:217:LEU:HD11	45:QA:367:ASP:HB3	1.67	0.76
46:QL:237:THR:HG23	46:QL:241:ARG:HH21	1.51	0.76
46:TL:46:ARG:HH22	45:TM:73:THR:HA	1.50	0.76
46:UD:324:LYS:HD2	45:UE:222:PRO:HG2	1.68	0.76
45:UE:215:ARG:NH2	45:UE:300:ASN:OD1	2.18	0.76
46:WD:11:GLN:NE2	49:WD:501:GDP:O1A	2.19	0.76
10:0Q:90:GLU:HB3	10:0Q:104:ARG:HD2	1.68	0.76
3:1C:37:ILE:HD11	45:DM:89:PRO:HG3	1.68	0.76
21:1L:517:ARG:HB2	21:1L:591:VAL:HG11	1.68	0.76
14:1V:209:ARG:NH2	14:1V:255:ILE:O	2.18	0.76
21:3L:170:THR:OG1	21:3L:173:GLN:OE1	2.03	0.76
10:4Q:79:ILE:HD13	10:4Q:164:ARG:HB3	1.68	0.76
46:GF:215:LEU:HB3	46:GF:217:LEU:HD23	1.68	0.76
45:GK:288:VAL:HG21	45:GK:327:ASP:HB3	1.64	0.76
45:KI:128:ASN:C	45:KI:128:ASN:HD22	1.93	0.76
46:UJ:178:THR:HB	46:UJ:181:GLU:HG3	1.68	0.76
46:UN:135:ILE:HG13	46:UN:152:ILE:HD11	1.68	0.76
21:1L:691:SER:HB3	21:1L:698:ARG:HD2	1.67	0.76
45:AC:326:LYS:HD3	46:AF:220:PRO:HD2	1.66	0.76
46:AH:267:MET:HG3	46:AH:299:MET:HE2	1.67	0.76
46:AN:139:LEU:HD11	46:AN:168:SER:HB3	1.67	0.76
45:DE:188:ILE:HD12	45:DE:425:LEU:HD11	1.67	0.76
45:EK:37:PRO:HG2	45:EK:40:LYS:HD3	1.67	0.76
45:FA:301:MET:HG3	45:FA:303:ALA:H	1.50	0.76
45:KI:177:VAL:HG22	46:KJ:331:LEU:HD11	1.66	0.76
46:KJ:107:THR:OG1	46:KJ:108:GLU:OE2	2.03	0.76
45:QE:9:VAL:HG12	45:QE:68:LEU:HB2	1.68	0.76
46:TN:200:MET:HE3	46:TN:268:ILE:HD13	1.68	0.76
1:0A:14:GLN:NE2	1:0A:18:SER:OG	2.18	0.76
23:2O:414:ILE:O	23:2O:418:GLN:NE2	2.18	0.76
25:3R:351:ASP:OD1	25:3R:354:ARG:NH1	2.19	0.76
14:3V:45:ARG:O	14:3V:47:GLY:N	2.19	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:4F:160:THR:HA	46:IN:320:ARG:HH12	1.51	0.76
37:5H:29:LYS:NZ	45:OK:217:LEU:O	2.18	0.76
46:DH:11:GLN:NE2	49:DH:501:GDP:O1A	2.19	0.76
46:FJ:371:SER:O	46:FJ:422:TYR:OH	2.04	0.76
45:FM:91:GLN:HG2	45:FM:121:ARG:HD2	1.67	0.76
45:HC:221:ARG:NH1	46:HD:322:SER:OG	2.19	0.76
45:HK:69:ASP:OD1	45:HK:70:LEU:N	2.18	0.76
46:LL:73:MET:HA	46:LL:76:VAL:HG12	1.65	0.76
46:MH:11:GLN:NE2	49:MH:501:GDP:O1A	2.19	0.76
46:MJ:103:LYS:HA	46:MJ:107:THR:HG22	1.68	0.76
45:NG:99:ALA:HA	45:NG:105:ARG:HD2	1.65	0.76
45:PC:319:TYR:HB3	45:PC:323:VAL:HG11	1.68	0.76
46:QL:166:THR:OG1	46:QL:199:CYS:SG	2.43	0.76
13:0U:95:MET:SD	13:0U:96:HIS:ND1	2.58	0.76
9:1N:319:LYS:NZ	9:1N:355:HIS:O	2.18	0.76
25:2R:10:GLY:O	15:2X:81:ARG:NH1	2.17	0.76
46:FF:285:THR:N	46:FF:288:GLU:OE2	2.19	0.76
46:JJ:67:ASP:O	46:JJ:92:PHE:HA	1.86	0.76
46:LD:73:MET:HA	46:LD:76:VAL:HG12	1.66	0.76
46:MN:371:SER:O	46:MN:422:TYR:OH	2.02	0.76
45:OC:167:LEU:HD13	45:OC:200:VAL:HG21	1.68	0.76
45:OK:298:PRO:HA	45:OK:301:MET:HE1	1.68	0.76
46:QN:200:MET:HE3	46:QN:268:ILE:HG21	1.68	0.76
46:VJ:209:ASP:OD2	46:VJ:213:ARG:NH1	2.20	0.76
45:VK:301:MET:HE1	45:VK:307:PRO:HD3	1.66	0.76
46:WD:156:ARG:HH21	46:WD:164:MET:HB2	1.51	0.76
46:WF:350:LYS:NZ	46:WF:352:SER:OG	2.19	0.76
45:DC:258:ASN:HD22	45:DC:352:LYS:HE3	1.51	0.76
14:0V:40:ASN:ND2	14:0V:45:ARG:O	2.19	0.75
21:1L:549:LEU:HG	21:1L:553:MET:HE2	1.68	0.75
16:3B:102:LYS:O	16:3B:106:GLN:NE2	2.19	0.75
37:5G:83:LEU:HD21	45:KI:405:VAL:HB	1.67	0.75
39:6F:130:SER:H	46:IH:359:LYS:HZ1	1.32	0.75
34:6R:457:GLU:HB2	34:6R:470:PHE:HB2	1.68	0.75
45:BA:326:LYS:HD3	46:BD:220:PRO:HD2	1.68	0.75
46:BF:97:ALA:HB3	46:BF:143:THR:HG22	1.69	0.75
46:CH:73:MET:HA	46:CH:76:VAL:HG12	1.68	0.75
46:DF:7:ILE:HG22	46:DF:64:ILE:HG12	1.66	0.75
45:GA:161:TYR:HB3	45:GA:164:LYS:HD2	1.68	0.75
45:GK:254:GLU:HG2	46:GN:98:GLY:HA2	1.67	0.75
46:KD:382:ALA:HB2	46:KD:415:MET:HE1	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NI:11:GLN:NE2	46:NJ:245:GLN:O	2.19	0.75
46:QB:235:GLY:HA3	46:QB:366:THR:HG21	1.67	0.75
46:QN:273:LEU:H	46:QN:292:GLN:HE22	1.34	0.75
46:TD:282:ARG:HE	46:TD:283:ALA:H	1.34	0.75
46:UF:226:ASN:HD21	49:UF:501:GDP:HN1	1.33	0.75
45:WM:180:ALA:HA	46:WN:350:LYS:HZ3	1.50	0.75
13:2U:105:ILE:HD12	13:2U:108:LEU:HD21	1.68	0.75
30:4H:191:LEU:HD23	46:AL:360:GLY:HA2	1.68	0.75
36:5A:71:SER:O	46:NB:359:LYS:NZ	2.19	0.75
46:AJ:102:ALA:HB2	46:AJ:403:MET:HE2	1.65	0.75
46:DH:68:LEU:HD12	46:DH:93:GLY:HA3	1.68	0.75
46:EH:273:LEU:H	46:EH:292:GLN:HE22	1.34	0.75
45:EM:101:ASN:HA	45:EM:144:GLY:H	1.50	0.75
45:HE:352:LYS:HZ1	46:HH:179:VAL:H	1.32	0.75
45:JC:116:ASP:OD1	45:JC:117:LEU:N	2.20	0.75
45:KG:30:ILE:HD13	45:KG:36:MET:HE3	1.67	0.75
46:KH:67:ASP:HB3	46:KH:73:MET:HE1	1.68	0.75
45:MG:91:GLN:HG2	45:MG:121:ARG:HD2	1.68	0.75
45:PK:64:ARG:HG3	45:PK:125:LEU:HD11	1.67	0.75
46:QF:273:LEU:H	46:QF:292:GLN:HE22	1.33	0.75
46:SB:334:GLN:HA	46:SB:341:PHE:HE2	1.50	0.75
46:UD:130:LEU:HG	46:UD:162:ARG:HD2	1.69	0.75
46:UH:67:ASP:O	46:UH:92:PHE:HA	1.86	0.75
1:0A:87:LYS:HG3	1:0A:88:VAL:H	1.49	0.75
1:2A:3:GLN:NE2	34:5R:6:PRO:O	2.19	0.75
36:5A:167:LYS:NZ	45:NC:278:ALA:O	2.19	0.75
37:5E:123:ARG:HH22	45:OA:372:MET:HA	1.51	0.75
45:AE:328:VAL:HG11	45:AE:353:VAL:HG21	1.68	0.75
46:DF:11:GLN:NE2	49:DF:501:GDP:O2A	2.19	0.75
45:FA:192:HIS:NE2	45:FA:424:ASP:OD2	2.19	0.75
46:HB:3:GLU:OE1	46:HB:62:ARG:NH1	2.19	0.75
46:HH:2:ARG:HD2	46:HH:240:LEU:HD11	1.68	0.75
45:KE:178:SER:OG	46:KF:347:ASN:ND2	2.19	0.75
45:NM:50:ASN:O	45:NM:64:ARG:NH2	2.18	0.75
45:OG:2:ARG:HH21	45:OG:242:LEU:HD23	1.50	0.75
45:SI:2:ARG:HH21	45:SI:243:ARG:HA	1.49	0.75
46:SN:273:LEU:H	46:SN:292:GLN:HE22	1.33	0.75
5:1E:4:ASP:OD1	5:1E:5:LEU:N	2.19	0.75
19:1J:383:TYR:HB2	19:1J:388:PHE:HB3	1.68	0.75
13:2U:120:LEU:HD21	13:2U:149:VAL:HG23	1.67	0.75
45:BE:221:ARG:HH22	46:BF:321:MET:HA	1.51	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BF:135:ILE:HG13	46:BF:152:ILE:HD11	1.67	0.75
46:BJ:1:MET:HE3	46:BJ:2:ARG:H	1.49	0.75
46:GD:139:LEU:HD12	46:GD:170:VAL:HG12	1.67	0.75
45:TE:224:TYR:O	45:TE:228:ASN:ND2	2.19	0.75
45:TK:260:VAL:HB	46:TL:397:TRP:HZ2	1.51	0.75
45:UE:209:ILE:HD13	45:UE:302:MET:HE1	1.66	0.75
46:UJ:32:PRO:O	46:UJ:83:GLN:NE2	2.20	0.75
46:WH:286:VAL:HG21	46:WH:321:MET:HE3	1.69	0.75
45:WM:55:GLU:HG3	45:WM:57:GLY:H	1.51	0.75
45:DC:167:LEU:HD22	45:DC:200:VAL:HB	1.69	0.75
11:0S:235:GLN:NE2	11:0S:290:THR:OG1	2.20	0.75
25:3R:290:SER:O	46:DL:276:ARG:NH2	2.20	0.75
34:5R:71:LYS:HD2	34:5R:72:ALA:N	2.02	0.75
35:5S:194:LYS:HA	35:5S:218:ILE:HD11	1.69	0.75
46:BN:102:ALA:HB2	46:BN:403:MET:HE2	1.68	0.75
46:CF:386:THR:OG1	46:CF:390:ARG:NH1	2.19	0.75
46:DJ:222:TYR:HA	46:DJ:225:LEU:HD12	1.69	0.75
45:EE:288:VAL:HG11	45:EE:327:ASP:HB3	1.68	0.75
46:EF:8:GLN:NE2	46:EF:10:GLY:O	2.19	0.75
46:FH:269:GLY:HA2	46:FH:300:MET:HE3	1.67	0.75
46:GD:226:ASN:HD21	49:GD:501:GDP:HN1	1.33	0.75
46:GH:290:THR:HA	46:GH:293:MET:SD	2.27	0.75
46:HF:226:ASN:HD21	49:HF:501:GDP:HN1	1.34	0.75
45:IA:261:PRO:HD2	45:IA:262:TYR:N	2.01	0.75
45:JI:288:VAL:HG21	45:JI:327:ASP:HB3	1.66	0.75
46:NJ:238:CYS:SG	46:NJ:318:ARG:NH1	2.58	0.75
45:PA:254:GLU:HG2	46:PD:98:GLY:HA2	1.69	0.75
45:PI:301:MET:HE1	45:PI:307:PRO:HG3	1.69	0.75
46:QD:45:GLU:HG2	46:QD:46:ARG:HG2	1.67	0.75
45:QI:119:LEU:HG	45:QI:156:ARG:HE	1.49	0.75
46:RJ:318:ARG:HB2	46:RJ:364:ALA:HB3	1.68	0.75
46:RL:260:PHE:HB2	46:RL:263:LEU:HD13	1.66	0.75
46:VD:322:SER:OG	46:VD:325:GLU:OE1	2.04	0.75
46:WD:318:ARG:HB3	46:WD:364:ALA:HB3	1.68	0.75
9:0N:75:MET:HB2	9:0N:275:VAL:HB	1.68	0.75
5:2E:61:LYS:HE2	46:DJ:37:HIS:HA	1.69	0.75
12:2T:268:LEU:HG	13:2U:43:ILE:HG21	1.67	0.75
45:BC:214:ARG:NH1	45:BC:220:GLU:OE1	2.18	0.75
45:FK:222:PRO:HD2	46:FL:324:LYS:HD2	1.66	0.75
45:GA:389:SER:O	45:GA:393:HIS:ND1	2.14	0.75
45:IC:392:ASP:OD2	45:IC:422:ARG:NH1	2.20	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:IF:73:MET:HA	46:IF:76:VAL:HG12	1.69	0.75
46:IJ:282:ARG:NH2	46:IJ:292:GLN:OE1	2.20	0.75
46:LN:67:ASP:O	46:LN:92:PHE:HA	1.86	0.75
46:RN:86:ARG:HH11	46:SN:281:TYR:HB2	1.51	0.75
46:TL:67:ASP:O	46:TL:92:PHE:HA	1.86	0.75
45:WE:36:MET:HE1	45:WE:38:SER:HB3	1.67	0.75
8:1H:236:LYS:NZ	8:1H:240:GLU:OE2	2.16	0.75
24:1P:168:ARG:NH2	45:TI:370:LYS:O	2.19	0.75
11:1S:176:ASP:OD1	11:1S:179:ARG:NH1	2.20	0.75
14:3V:250:GLN:NE2	14:3V:254:ASP:OD2	2.20	0.75
35:4S:194:LYS:HA	35:4S:218:ILE:HD11	1.69	0.75
40:6G:268:VAL:HG12	40:6G:270:THR:H	1.49	0.75
46:EH:215:LEU:HD22	46:EH:217:LEU:HB2	1.68	0.75
46:FF:173:PRO:HG2	46:FF:380:ARG:HD2	1.69	0.75
45:GE:317:MET:HE1	45:GE:332:ILE:HD11	1.69	0.75
46:HH:403:MET:HB3	46:HH:407:GLU:OE2	1.86	0.75
46:IH:287:PRO:HA	46:IH:329:GLN:HE22	1.49	0.75
45:LI:221:ARG:HA	46:LJ:324:LYS:HZ1	1.50	0.75
46:NF:306:ARG:HA	46:NF:340:TYR:HE2	1.52	0.75
46:PL:83:GLN:O	46:QJ:281:TYR:OH	2.03	0.75
46:TL:242:PHE:HB3	46:TL:356:ILE:HD13	1.69	0.75
45:UM:71:GLU:HB2	45:UM:98:ASP:HB2	1.67	0.75
46:UN:303:ALA:HB2	46:UN:377:MET:HE1	1.69	0.75
8:1H:60:ARG:HH22	46:HN:33:THR:H	1.35	0.75
21:2L:785:LEU:HA	21:2L:789:GLN:HE21	1.49	0.75
34:7R:185:SER:HA	34:7R:188:LYS:HD2	1.69	0.75
46:AH:67:ASP:O	46:AH:92:PHE:HA	1.86	0.75
46:BB:319:GLY:HA2	46:BB:357:PRO:HG3	1.68	0.75
45:GI:55:GLU:O	45:HI:285:GLN:NE2	2.20	0.75
46:GL:268:ILE:HG22	46:GL:368:VAL:HG12	1.69	0.75
45:HG:257:THR:HA	46:HJ:397:TRP:CH2	2.22	0.75
45:LC:40:LYS:HD3	45:LC:41:THR:H	1.52	0.75
46:PJ:299:MET:HG3	46:PJ:305:PRO:HG3	1.69	0.75
46:PN:68:LEU:HB3	46:PN:96:GLY:HA2	1.68	0.75
46:QH:217:LEU:HD23	46:QH:219:THR:H	1.51	0.75
45:QK:55:GLU:HG3	45:QK:57:GLY:H	1.51	0.75
46:RD:163:ILE:HD11	46:RD:251:ARG:HH11	1.52	0.75
45:SK:33:ASP:HA	45:SK:85:GLN:HE21	1.51	0.75
45:TK:280:LYS:HA	45:TK:283:HIS:HD2	1.50	0.75
46:TL:289:LEU:HD11	46:TL:363:MET:HB3	1.69	0.75
46:WF:248:SER:HA	46:WF:252:LYS:HD3	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:0G:31:MET:SD	46:JL:279:GLN:NE2	2.59	0.75
1:2A:14:GLN:NE2	1:2A:18:SER:OG	2.18	0.75
21:2L:302:SER:OG	21:2L:305:GLN:NE2	2.20	0.75
13:2U:53:GLY:H	13:2U:87:TRP:HH2	1.35	0.75
13:2U:487:LEU:HD23	13:2U:517:TRP:HE3	1.51	0.75
30:4H:207:LYS:HB3	30:4H:209:ARG:HH12	1.50	0.75
46:GJ:67:ASP:O	46:GJ:92:PHE:HA	1.87	0.75
46:HB:3:GLU:O	46:HB:131:GLN:NE2	2.20	0.75
46:HH:242:PHE:HB3	46:HH:356:ILE:HD13	1.68	0.75
46:IH:222:TYR:O	46:IH:226:ASN:ND2	2.20	0.75
46:KF:207:LEU:HB3	46:KF:225:LEU:HD22	1.69	0.75
45:KK:27:GLU:OE2	45:KK:243:ARG:NH1	2.19	0.75
46:SL:371:SER:O	46:SL:422:TYR:OH	2.04	0.75
46:UN:74:ASP:HA	46:UN:77:ARG:HD2	1.69	0.75
19:1J:200:GLY:HA3	45:IG:372:MET:HE1	1.67	0.74
15:1X:33:ALA:HB1	15:2X:140:PRO:HG3	1.69	0.74
1:2A:139:GLN:OE1	46:AJ:320:ARG:NH2	2.20	0.74
1:2A:148:ASN:HB3	1:2A:151:HIS:HB2	1.69	0.74
5:3E:106:LYS:HD2	5:3E:191:VAL:HG12	1.67	0.74
15:3X:49:ILE:HD11	45:MM:282:TYR:CD2	2.22	0.74
45:DE:387:VAL:HG12	45:DE:390:ARG:HH22	1.51	0.74
46:DH:73:MET:HA	46:DH:76:VAL:HG12	1.69	0.74
45:GK:91:GLN:HG2	45:GK:121:ARG:HD2	1.69	0.74
46:HH:178:THR:HG22	46:HH:180:VAL:H	1.52	0.74
46:HJ:135:ILE:HG13	46:HJ:152:ILE:HD11	1.69	0.74
45:IG:377:MET:HE1	45:IG:379:SER:HB2	1.68	0.74
46:JN:208:TYR:HE1	46:JN:225:LEU:HD11	1.50	0.74
45:OM:55:GLU:HG3	45:OM:57:GLY:H	1.51	0.74
45:QK:268:MET:HG2	45:QK:380:ASN:HB3	1.69	0.74
46:RF:235:GLY:HA3	46:RF:366:THR:HG21	1.69	0.74
45:SE:9:VAL:HG12	45:SE:68:LEU:HB2	1.67	0.74
46:UF:324:LYS:H	45:UG:221:ARG:HH22	1.34	0.74
46:UH:226:ASN:HD21	49:UH:501:GDP:HN1	1.33	0.74
45:UK:258:ASN:HB3	45:UK:352:LYS:HD2	1.68	0.74
24:1P:223:ARG:NH1	24:1P:224:GLU:OE2	2.19	0.74
10:1Q:177:LEU:HD12	10:1Q:178:PRO:HD2	1.68	0.74
13:2U:95:MET:SD	13:2U:96:HIS:ND1	2.59	0.74
36:5A:156:VAL:HG23	45:KC:433:GLU:HG2	1.68	0.74
40:6G:125:ASP:OD2	46:VJ:213:ARG:NH2	2.20	0.74
46:HN:287:PRO:O	46:HN:291:GLN:NE2	2.19	0.74
45:JM:178:SER:OG	46:JN:347:ASN:ND2	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JN:11:GLN:NE2	49:JN:501:GDP:O1A	2.20	0.74
46:LD:330:MET:HE2	46:LD:349:ILE:HG21	1.68	0.74
46:MD:268:ILE:HG13	46:MD:300:MET:HE3	1.70	0.74
45:NM:180:ALA:HB3	45:NM:183:GLU:HG3	1.70	0.74
46:PH:218:THR:HG23	46:PH:219:THR:HG23	1.68	0.74
46:RL:259:PRO:HD2	46:RL:260:PHE:N	2.02	0.74
46:RL:376:GLU:HB3	46:RL:380:ARG:NH1	2.01	0.74
45:SM:229:ARG:HH12	45:SM:366:GLY:HA2	1.51	0.74
45:TG:271:SER:OG	45:TG:301:MET:SD	2.45	0.74
46:VH:282:ARG:NH2	46:VH:292:GLN:OE1	2.20	0.74
45:CE:211:ASP:HB3	45:CE:215:ARG:NH2	2.02	0.74
10:0Q:89:PHE:HB3	10:0Q:156:ILE:HD12	1.67	0.74
9:1N:54:SER:HB3	9:1N:90:TRP:HH2	1.51	0.74
13:1U:494:LYS:HG3	13:1U:495:GLN:H	1.51	0.74
21:2L:880:LYS:HD3	21:2L:887:LYS:HZ2	1.52	0.74
13:2U:329:PRO:HG2	13:2U:332:TYR:HB3	1.68	0.74
33:4F:138:LYS:HD3	33:4F:140:SER:H	1.51	0.74
46:CF:73:MET:HA	46:CF:76:VAL:HG12	1.69	0.74
45:GG:298:PRO:HB3	45:GG:308:ARG:HH12	1.53	0.74
45:HA:176:GLN:OE1	45:HA:304:LYS:NZ	2.20	0.74
46:IF:218:THR:HG23	46:IF:219:THR:HG23	1.69	0.74
45:JC:292:THR:HG21	45:JC:331:SER:HB2	1.67	0.74
45:KA:47:ASP:OD1	45:KA:48:ALA:N	2.17	0.74
46:NB:372:THR:HA	46:NB:422:TYR:HE1	1.53	0.74
45:PK:244:PHE:HB2	45:PK:356:ASN:HD21	1.52	0.74
46:RD:54:ALA:HA	46:SD:283:ALA:HB2	1.69	0.74
46:SJ:173:PRO:HG2	46:SJ:380:ARG:HE	1.51	0.74
46:TJ:133:PHE:HD2	46:TJ:164:MET:HE1	1.52	0.74
46:UH:242:PHE:HB3	46:UH:356:ILE:HD13	1.70	0.74
45:UI:352:LYS:HZ1	46:UJ:179:VAL:H	1.33	0.74
21:1L:170:THR:OG1	21:1L:173:GLN:OE1	2.05	0.74
10:1Q:22:LEU:HB2	10:1Q:25:TRP:HB2	1.67	0.74
12:2T:88:ASP:OD1	12:2T:91:LYS:NZ	2.19	0.74
33:4F:172:LYS:HE2	45:IM:31:GLN:HG3	1.67	0.74
37:5E:173:LYS:HD2	46:KD:194:GLU:HA	1.69	0.74
37:5G:104:MET:HG3	37:5G:105:LYS:H	1.53	0.74
45:AM:46:ASP:OD1	45:AM:47:ASP:N	2.20	0.74
45:DM:318:MET:HE1	45:DM:320:ARG:HD2	1.69	0.74
46:EL:235:GLY:HA3	46:EL:366:THR:HG21	1.68	0.74
46:FD:229:VAL:HG12	46:FD:233:MET:HE2	1.70	0.74
45:GK:210:TYR:HE1	45:GK:227:LEU:HD11	1.51	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JJ:73:MET:HA	46:JJ:76:VAL:HG12	1.69	0.74
45:KA:56:THR:HG23	45:KA:58:ALA:H	1.52	0.74
45:NE:11:GLN:NE2	46:NF:245:GLN:O	2.20	0.74
46:NH:178:THR:HB	46:NH:181:GLU:HG3	1.69	0.74
46:PF:86:ARG:HD2	46:PF:87:PRO:HD2	1.68	0.74
45:RI:244:PHE:HB2	45:RI:356:ASN:HD21	1.50	0.74
45:WM:24:PHE:O	45:WM:28:HIS:ND1	2.18	0.74
25:1R:462:LYS:NZ	25:1R:465:GLU:HA	2.02	0.74
13:1U:11:ILE:HB	13:1U:599:ILE:HB	1.68	0.74
10:4Q:87:TYR:HD2	10:4Q:123:MET:HE1	1.53	0.74
40:6G:144:LYS:NZ	40:6G:145:TRP:O	2.20	0.74
46:AJ:322:SER:OG	46:AJ:325:GLU:OE1	2.06	0.74
45:BK:256:GLN:HB2	46:BN:397:TRP:CH2	2.22	0.74
46:CF:164:MET:HB3	46:CF:197:ASP:H	1.51	0.74
45:CG:22:GLU:OE1	45:CG:83:TYR:OH	2.04	0.74
46:EB:2:ARG:NH1	46:EB:131:GLN:OE1	2.20	0.74
46:GB:327:ASP:HA	46:GB:330:MET:HE3	1.69	0.74
46:HF:302:ALA:HB3	46:HF:377:MET:HE1	1.69	0.74
46:KB:285:THR:HG23	46:KB:287:PRO:HD2	1.70	0.74
45:NK:285:GLN:HE22	45:NK:287:SER:HB2	1.50	0.74
45:QG:254:GLU:HG2	46:QH:98:GLY:HA2	1.68	0.74
46:SF:174:LYS:HE2	46:SF:205:GLU:HG2	1.67	0.74
45:VA:73:THR:OG1	46:VB:2:ARG:NH2	2.20	0.74
47:WI:501:GTP:O1G	46:WJ:252:LYS:NZ	2.20	0.74
8:1H:83:GLN:O	8:1H:86:LYS:HG2	1.87	0.74
30:2H:167:LYS:NZ	45:MA:55:GLU:OE2	2.19	0.74
15:4X:93:ALA:O	15:4X:97:GLN:NE2	2.21	0.74
37:5H:110:ARG:NH1	37:5H:111:ASN:OD1	2.20	0.74
45:BG:288:VAL:HG11	45:BG:327:ASP:HB3	1.70	0.74
46:CB:377:MET:HA	46:CB:380:ARG:HG2	1.69	0.74
45:EM:5:ILE:HD12	45:EM:125:LEU:HD13	1.68	0.74
45:II:276:ILE:HG21	45:II:281:ALA:HB2	1.69	0.74
46:JF:91:VAL:HG11	46:JF:116:VAL:HG12	1.69	0.74
45:QE:172:TYR:HB2	45:QE:203:MET:HE1	1.68	0.74
46:TH:284:LEU:HD11	46:TH:363:MET:HB3	1.68	0.74
45:VA:324:VAL:HG11	45:VA:326:LYS:HZ2	1.52	0.74
46:VL:107:THR:OG1	46:VL:108:GLU:OE1	2.04	0.74
45:VM:221:ARG:NH1	46:VN:322:SER:OG	2.21	0.74
46:WF:67:ASP:O	46:WF:92:PHE:HA	1.88	0.74
3:1C:94:GLY:O	3:1C:98:GLN:NE2	2.20	0.74
19:1J:409:SER:O	19:1J:413:GLN:NE2	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5F:44:ARG:NH1	45:OC:284:GLU:O	2.20	0.74
46:AB:303:ALA:HB2	46:AB:377:MET:HE1	1.70	0.74
46:AJ:66:MET:HE1	46:AJ:147:MET:HB2	1.70	0.74
46:IN:286:VAL:HG21	46:IN:321:MET:HE3	1.69	0.74
45:KK:336:LYS:HD3	45:KK:351:PHE:HE2	1.52	0.74
46:OB:207:LEU:HB3	46:OB:225:LEU:HD22	1.69	0.74
46:ON:54:ALA:HA	46:PN:283:ALA:HB2	1.68	0.74
46:PF:178:THR:HB	46:PF:181:GLU:HG2	1.70	0.74
46:SD:156:ARG:NH2	46:SD:159:TYR:O	2.21	0.74
46:VB:215:LEU:HB3	46:VB:217:LEU:HD23	1.69	0.74
45:WE:175:PRO:O	45:WE:390:ARG:NH2	2.19	0.74
16:2B:183:GLU:HG3	26:2W:271:GLN:HE22	1.52	0.74
12:2T:224:LYS:N	45:MG:196:GLU:OE1	2.18	0.74
13:2U:68:LYS:HG3	13:2U:69:TYR:H	1.52	0.74
1:3A:129:PRO:HD3	46:AN:362:LYS:HE2	1.70	0.74
11:3S:121:CYS:SG	46:AN:423:GLN:NE2	2.59	0.74
46:FL:322:SER:OG	46:FL:325:GLU:OE1	2.04	0.74
46:ID:200:MET:HG3	46:ID:266:PHE:HB2	1.70	0.74
46:JF:73:MET:HA	46:JF:76:VAL:HG12	1.69	0.74
45:LG:9:VAL:HG12	45:LG:68:LEU:HB2	1.69	0.74
45:NK:221:ARG:NH1	46:NL:325:GLU:OE2	2.21	0.74
45:OC:207:GLU:HA	45:OC:210:TYR:HD1	1.53	0.74
45:PC:31:GLN:NE2	45:PC:35:GLN:O	2.21	0.74
46:PH:293:MET:HE2	46:PH:367:PHE:HB2	1.69	0.74
46:UJ:73:MET:HA	46:UJ:76:VAL:HG12	1.69	0.74
5:0E:150:PHE:HB3	5:0E:159:ILE:HD13	1.69	0.74
10:1Q:115:LYS:HE2	45:AC:264:ARG:HH11	1.51	0.74
45:AC:386:GLU:OE2	45:AC:390:ARG:NH2	2.21	0.74
46:BN:303:ALA:HB2	46:BN:377:MET:HE2	1.68	0.74
46:EF:377:MET:SD	46:EF:380:ARG:NH2	2.61	0.74
45:FE:224:TYR:O	45:FE:228:ASN:ND2	2.19	0.74
45:FK:345:ASP:OD2	46:FN:390:ARG:NH2	2.21	0.74
45:HG:55:GLU:HG3	45:HG:57:GLY:H	1.53	0.74
46:ID:73:MET:HA	46:ID:76:VAL:HG22	1.70	0.74
46:LL:62:ARG:NH1	46:LL:127:CYS:SG	2.61	0.74
45:OA:256:GLN:HG2	46:OD:397:TRP:HH2	1.51	0.74
45:OE:207:GLU:HA	45:OE:210:TYR:HB2	1.70	0.74
46:PB:58:ARG:HH22	46:PB:84:LEU:HA	1.52	0.74
45:QA:259:LEU:O	45:QA:380:ASN:ND2	2.19	0.74
45:RK:234:VAL:HG21	45:RK:302:MET:HE1	1.69	0.74
45:WG:31:GLN:NE2	45:WG:35:GLN:O	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:2M:314:VAL:HB	22:2M:356:GLU:HG2	1.70	0.74
16:3B:180:GLU:HG2	15:4X:113:LEU:HD21	1.68	0.74
46:FH:242:PHE:HB3	46:FH:356:ILE:HD13	1.68	0.74
46:FJ:135:ILE:HG13	46:FJ:152:ILE:HD11	1.70	0.74
46:LD:7:ILE:HG22	46:LD:64:ILE:HB	1.69	0.74
46:OB:248:SER:HA	46:OB:252:LYS:HD3	1.70	0.74
45:PE:244:PHE:HB2	45:PE:356:ASN:HD21	1.53	0.74
45:QG:268:MET:HE2	45:QG:378:ILE:HG22	1.69	0.74
46:QJ:11:GLN:NE2	49:QJ:501:GDP:O1A	2.21	0.74
46:SN:290:THR:HA	46:SN:293:MET:HG3	1.69	0.74
46:TD:325:GLU:HG2	45:TE:221:ARG:NH1	2.03	0.74
46:UD:215:LEU:HB3	46:UD:217:LEU:HD23	1.70	0.74
45:VE:318:MET:HE1	45:VE:320:ARG:HB2	1.70	0.74
46:VN:48:ASN:O	46:VN:62:ARG:NH1	2.19	0.74
11:1S:280:LYS:HB3	11:1S:286:LEU:HD21	1.70	0.73
15:1X:129:ILE:HG22	15:1X:133:LYS:HZ3	1.53	0.73
15:2X:42:LYS:HG2	45:LI:58:ALA:HB3	1.70	0.73
36:5D:19:ARG:HG2	36:5D:20:LEU:H	1.53	0.73
35:5S:183:TYR:HE1	35:5S:225:LEU:HD21	1.53	0.73
46:AF:67:ASP:OD2	46:AF:72:THR:OG1	2.06	0.73
45:CG:226:ASN:ND2	45:CG:367:ASP:OD2	2.21	0.73
45:DE:326:LYS:HE2	46:DF:220:PRO:HD2	1.70	0.73
46:DJ:166:THR:OG1	46:DJ:199:CYS:SG	2.45	0.73
46:EB:48:ASN:O	46:EB:62:ARG:NH1	2.20	0.73
46:IN:248:SER:HA	46:IN:252:LYS:HD2	1.69	0.73
46:LH:134:GLN:NE2	46:LH:233:MET:SD	2.60	0.73
46:NL:242:PHE:HB3	46:NL:356:ILE:HD13	1.69	0.73
46:OF:222:TYR:O	46:OF:226:ASN:ND2	2.16	0.73
45:OM:221:ARG:NH2	46:ON:322:SER:OG	2.19	0.73
45:TI:226:ASN:ND2	45:TI:367:ASP:OD2	2.21	0.73
12:0T:161:LYS:NZ	12:0T:165:SER:OG	2.22	0.73
13:0U:513:LYS:HG3	13:0U:528:LEU:HA	1.70	0.73
4:1D:166:ARG:HD3	4:1D:167:ILE:H	1.52	0.73
27:2C:69:VAL:HG12	46:LJ:41:ASP:HB3	1.71	0.73
10:2Q:48:GLU:OE2	10:2Q:50:MET:HG3	1.88	0.73
5:3E:101:LEU:O	5:3E:105:GLN:NE2	2.22	0.73
45:AC:288:VAL:HG11	45:AC:327:ASP:HB3	1.69	0.73
45:FC:11:GLN:NE2	46:FD:247:ASN:OD1	2.22	0.73
45:GA:55:GLU:HG3	45:GA:57:GLY:H	1.53	0.73
45:HK:326:LYS:NZ	46:HN:220:PRO:O	2.21	0.73
45:IG:100:ALA:HA	46:IH:252:LYS:HD3	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IM:50:ASN:O	45:IM:64:ARG:NH2	2.18	0.73
46:IN:396:HIS:HA	46:IN:399:THR:HG22	1.70	0.73
46:JH:418:LEU:O	46:JH:422:TYR:HB2	1.87	0.73
46:JJ:86:ARG:HD3	46:JJ:88:ASP:HB2	1.70	0.73
46:JL:141:GLY:O	46:JL:145:SER:OG	2.05	0.73
46:JN:396:HIS:HA	46:JN:399:THR:HG22	1.68	0.73
46:KF:114:ASP:OD1	46:KF:115:SER:N	2.21	0.73
46:NF:322:SER:OG	46:NF:325:GLU:OE1	2.06	0.73
45:NK:180:ALA:HA	46:NL:350:LYS:HZ1	1.53	0.73
46:OF:8:GLN:HE21	46:OF:65:LEU:HG	1.52	0.73
46:OF:267:MET:HG3	46:OF:299:MET:HE2	1.70	0.73
45:OK:298:PRO:HG3	45:OK:308:ARG:HH12	1.51	0.73
46:RN:200:MET:HG2	46:RN:266:PHE:HB2	1.69	0.73
46:SH:54:ALA:HA	46:TH:283:ALA:HB2	1.70	0.73
45:TC:88:HIS:HB3	45:TC:91:GLN:OE1	1.88	0.73
45:TE:280:LYS:HA	45:TE:283:HIS:HD2	1.52	0.73
45:TI:298:PRO:HA	45:TI:301:MET:HE1	1.68	0.73
45:UG:55:GLU:HG3	45:UG:57:GLY:H	1.52	0.73
45:UK:260:VAL:HB	46:UL:397:TRP:HZ2	1.53	0.73
6:0F:78:THR:OG1	6:0F:81:GLN:OE1	2.05	0.73
7:0G:165:TYR:H	26:2W:185:PHE:HA	1.54	0.73
20:2K:383:ILE:O	20:2K:387:GLN:NE2	2.21	0.73
21:2L:880:LYS:HD2	21:2L:892:ARG:NH1	2.03	0.73
12:2T:72:PHE:HA	12:2T:108:PRO:HA	1.70	0.73
1:3A:148:ASN:HB3	1:3A:151:HIS:HB2	1.69	0.73
30:3H:174:PHE:CG	34:4R:147:ARG:CZ	2.70	0.73
31:3I:198:LEU:O	31:3I:200:GLY:N	2.18	0.73
34:4R:256:LEU:HD12	34:4R:356:THR:HG23	1.68	0.73
34:5R:12:LEU:HB2	34:5R:15:HIS:CD2	2.22	0.73
45:CM:288:VAL:HG11	45:CM:327:ASP:HB3	1.70	0.73
46:GH:49:VAL:HG11	46:GH:241:ARG:HG2	1.68	0.73
45:GI:64:ARG:NH1	45:GI:129:CYS:SG	2.62	0.73
46:JJ:156:ARG:HG3	46:JJ:195:ASN:HB3	1.68	0.73
45:JK:256:GLN:HB2	46:JN:397:TRP:CZ3	2.23	0.73
45:QC:254:GLU:OE2	45:QC:258:ASN:ND2	2.19	0.73
45:QE:140:SER:OG	47:QE:501:GTP:O2B	2.05	0.73
46:QL:6:HIS:CD2	46:QL:134:GLN:HE22	2.06	0.73
46:VL:226:ASN:HD21	49:VL:501:GDP:HN1	1.33	0.73
23:1O:269:GLN:N	45:UA:282:TYR:CD2	2.56	0.73
44:8R:85:UNK:O	44:8R:87:UNK:O	2.06	0.73
46:AB:207:LEU:HB3	46:AB:225:LEU:HD22	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BJ:67:ASP:O	46:BJ:92:PHE:HA	1.89	0.73
45:DI:11:GLN:NE2	47:DI:501:GTP:O3A	2.21	0.73
46:DL:156:ARG:HD3	46:DL:164:MET:HE2	1.71	0.73
45:EI:338:LYS:HZ2	45:EI:340:THR:H	1.36	0.73
45:KA:206:ASN:OD1	47:KA:501:GTP:N2	2.21	0.73
46:KH:267:MET:HE3	46:KH:299:MET:HG2	1.70	0.73
45:MC:157:LEU:HD22	45:MC:166:LYS:HD3	1.68	0.73
45:NG:398:MET:HE1	46:NH:345:ILE:HA	1.70	0.73
45:OA:108:TYR:O	45:OA:112:LYS:NZ	2.21	0.73
45:OK:178:SER:OG	46:OL:347:ASN:ND2	2.20	0.73
45:OM:50:ASN:O	45:OM:64:ARG:NH1	2.21	0.73
45:QA:268:MET:HG2	45:QA:380:ASN:HB3	1.70	0.73
45:RG:244:PHE:HB2	45:RG:356:ASN:HD21	1.54	0.73
46:RL:156:ARG:NH2	46:RL:159:TYR:O	2.22	0.73
46:TF:262:ARG:NH1	46:TF:421:GLU:OE1	2.22	0.73
46:VH:200:MET:HG3	46:VH:266:PHE:HB2	1.71	0.73
46:VN:68:LEU:HD12	46:VN:93:GLY:HA3	1.69	0.73
46:WJ:68:LEU:HD12	46:WJ:93:GLY:HA3	1.71	0.73
9:0N:34:LEU:HD23	9:0N:37:LYS:HZ3	1.54	0.73
24:1P:272:ILE:HD13	45:TE:372:MET:HE2	1.69	0.73
34:6R:546:ASP:HA	34:6R:549:MET:HG2	1.70	0.73
46:BF:222:TYR:O	46:BF:226:ASN:ND2	2.19	0.73
45:CC:88:HIS:HB3	45:CC:91:GLN:HE22	1.54	0.73
45:DK:175:PRO:HG3	45:DK:390:ARG:HH12	1.53	0.73
45:FE:132:LEU:O	45:FE:164:LYS:NZ	2.21	0.73
45:JA:319:TYR:HB3	45:JA:323:VAL:HG21	1.70	0.73
45:MG:326:LYS:HZ3	46:MJ:208:TYR:HB3	1.54	0.73
45:OA:326:LYS:HE3	46:OD:220:PRO:HG2	1.68	0.73
46:RB:262:ARG:NH1	46:RB:421:GLU:OE1	2.22	0.73
46:RL:83:GLN:O	46:SL:281:TYR:OH	2.07	0.73
46:SB:139:LEU:HD22	46:SB:170:VAL:HG12	1.69	0.73
46:SJ:318:ARG:HE	46:SJ:358:PRO:HG3	1.53	0.73
46:UF:382:ALA:HB2	46:UF:415:MET:HE1	1.70	0.73
16:2B:180:GLU:HB3	26:2W:272:LYS:HZ1	1.52	0.73
34:4R:593:ASP:OD2	34:4R:598:TRP:N	2.21	0.73
45:AK:339:ARG:O	45:AK:342:GLN:NE2	2.22	0.73
46:AL:73:MET:HA	46:AL:76:VAL:HG22	1.69	0.73
46:BF:55:THR:HG23	46:CD:283:ALA:HA	1.71	0.73
45:BI:294:SER:HA	45:BI:297:GLU:HG3	1.71	0.73
46:CF:282:ARG:NE	46:CF:288:GLU:OE1	2.19	0.73
46:EB:330:MET:SD	46:EB:351:SER:OG	2.46	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HA:288:VAL:HG11	45:HA:327:ASP:HB3	1.70	0.73
45:HG:352:LYS:NZ	45:HG:353:VAL:O	2.22	0.73
45:IG:398:MET:HE1	46:IH:345:ILE:HA	1.68	0.73
46:QF:46:ARG:NH2	45:QG:76:ASP:OD2	2.22	0.73
45:SC:260:VAL:HB	46:SD:397:TRP:HZ2	1.53	0.73
45:SE:215:ARG:NH2	45:SE:300:ASN:OD1	2.21	0.73
46:SF:113:ILE:HG12	46:SF:117:LEU:HD23	1.69	0.73
45:TI:91:GLN:HG2	45:TI:121:ARG:HD2	1.69	0.73
46:VN:213:ARG:HH12	46:VN:297:LYS:HG3	1.53	0.73
24:1P:166:GLN:HG3	24:2P:491:LYS:HB2	1.70	0.73
27:2C:183:SER:HA	15:4X:54:ARG:NH2	2.04	0.73
15:2X:33:ALA:HB1	15:3X:140:PRO:HG3	1.71	0.73
11:3S:97:ARG:NH2	46:MN:414:ASN:OD1	2.20	0.73
33:4F:125:ASN:ND2	46:IL:245:GLN:OE1	2.21	0.73
45:CI:175:PRO:HG3	45:CI:390:ARG:HH12	1.54	0.73
46:GJ:128:ASP:OD2	46:GJ:129:CYS:N	2.22	0.73
46:GL:190:HIS:HD2	46:GL:411:ALA:HA	1.54	0.73
45:HC:349:THR:HG1	46:HF:176:SER:HG	1.35	0.73
45:NE:221:ARG:HH11	45:NE:221:ARG:HA	1.53	0.73
46:NF:200:MET:HG3	46:NF:266:PHE:HB2	1.70	0.73
46:PJ:73:MET:HA	46:PJ:76:VAL:HG12	1.71	0.73
45:SC:204:LEU:HD23	45:SC:302:MET:HE1	1.71	0.73
46:UH:282:ARG:HE	46:UH:283:ALA:H	1.35	0.73
46:VD:99:ASN:HA	46:VD:142:GLY:H	1.51	0.73
46:VJ:371:SER:O	46:VJ:422:TYR:OH	2.05	0.73
45:WM:101:ASN:HA	45:WM:144:GLY:H	1.51	0.73
4:0D:179:LYS:HG3	4:0D:180:ARG:H	1.53	0.73
21:1L:141:LEU:O	21:1L:145:GLN:NE2	2.21	0.73
21:1L:617:ARG:NH1	21:1L:693:ASP:OD1	2.19	0.73
23:1O:236:ILE:HG23	23:1O:240:LYS:HZ3	1.52	0.73
11:3S:231:LEU:HD12	11:3S:290:THR:HG21	1.69	0.73
14:3V:125:MET:SD	46:LD:386:THR:OG1	2.46	0.73
37:5F:197:LEU:HD13	45:LG:393:HIS:HB2	1.70	0.73
10:5Q:60:THR:HG22	10:5Q:62:PRO:HD2	1.70	0.73
46:AJ:294:PHE:HD2	46:AJ:333:VAL:HG21	1.54	0.73
45:BE:55:GLU:HG3	45:BE:57:GLY:H	1.54	0.73
45:CI:288:VAL:HG21	45:CI:327:ASP:HB3	1.70	0.73
46:CL:273:LEU:H	46:CL:292:GLN:HE22	1.37	0.73
45:DK:292:THR:HG21	45:DK:331:SER:HB3	1.70	0.73
45:FI:108:TYR:HA	45:FI:112:LYS:HE3	1.71	0.73
45:FM:55:GLU:HG3	45:FM:57:GLY:H	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JJ:314:SER:HA	46:JJ:350:LYS:HB2	1.71	0.73
45:KE:224:TYR:HA	45:KE:227:LEU:HD12	1.70	0.73
46:LN:377:MET:SD	46:LN:380:ARG:NH2	2.61	0.73
46:NF:372:THR:HA	46:NF:422:TYR:HE1	1.52	0.73
45:OM:90:GLU:OE2	45:OM:121:ARG:NH1	2.21	0.73
46:RJ:289:LEU:HD11	46:RJ:363:MET:HB3	1.71	0.73
46:SF:324:LYS:HE3	45:SG:214:ARG:HD2	1.70	0.73
46:TL:324:LYS:HD3	45:TM:222:PRO:HD2	1.70	0.73
46:UL:215:LEU:HB3	46:UL:217:LEU:HD23	1.69	0.73
45:VI:221:ARG:NH1	46:VJ:322:SER:OG	2.22	0.73
11:0S:127:ARG:NH1	11:0S:220:ASN:O	2.21	0.73
13:0U:463:GLN:OE1	13:0U:483:ARG:NH2	2.17	0.73
4:1D:29:ILE:HG21	5:1E:62:GLN:HG2	1.70	0.73
14:1V:50:ASN:HB3	14:1V:57:LEU:HD13	1.69	0.73
13:3U:492:LEU:HB2	13:3U:510:SER:HB3	1.71	0.73
37:5G:126:LEU:O	45:OI:373:ARG:NH2	2.21	0.73
45:AA:398:MET:HE1	46:AB:345:ILE:HD12	1.71	0.73
46:AN:73:MET:HA	46:AN:76:VAL:HG12	1.70	0.73
45:BC:320:ARG:NH1	45:BC:358:GLN:O	2.22	0.73
46:GF:67:ASP:O	46:GF:92:PHE:HA	1.89	0.73
46:JL:54:ALA:HA	46:KL:283:ALA:HB2	1.71	0.73
46:LL:135:ILE:HG13	46:LL:152:ILE:HD11	1.71	0.73
46:MH:1:MET:HG2	46:MH:2:ARG:H	1.52	0.73
46:NB:83:GLN:O	46:OB:281:TYR:OH	2.06	0.73
46:QB:7:ILE:HG12	46:QB:64:ILE:HD13	1.70	0.73
45:QK:141:VAL:HG11	45:QK:172:TYR:HD1	1.53	0.73
46:SF:330:MET:HE2	46:SF:349:ILE:HG12	1.68	0.73
46:VD:135:ILE:HG13	46:VD:152:ILE:HD11	1.70	0.73
46:WH:7:ILE:HG22	46:WH:64:ILE:HB	1.70	0.73
46:WH:382:ALA:HB2	46:WH:415:MET:HE1	1.69	0.73
5:3E:75:ASN:OD1	5:3E:76:GLU:N	2.22	0.73
45:DG:172:TYR:HB2	45:DG:203:MET:HE1	1.71	0.73
46:DJ:2:ARG:HD2	46:DJ:240:LEU:HD11	1.71	0.73
46:FD:267:MET:HG3	46:FD:299:MET:HE2	1.69	0.73
45:FG:91:GLN:HG2	45:FG:121:ARG:HD2	1.70	0.73
45:HI:178:SER:OG	46:HJ:347:ASN:OD1	2.06	0.73
46:KL:114:ASP:OD2	46:KL:115:SER:N	2.22	0.73
45:MK:413:MET:HG3	45:MK:417:GLU:HG3	1.71	0.73
45:PG:221:ARG:NH2	46:PH:325:GLU:OE1	2.22	0.73
45:QK:9:VAL:HG12	45:QK:68:LEU:HB2	1.71	0.73
45:SI:76:ASP:OD1	45:SI:79:ARG:NH2	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UL:68:LEU:HD13	46:UL:93:GLY:HA3	1.71	0.73
46:UL:213:ARG:HH12	46:UL:297:LYS:HB2	1.52	0.73
45:UM:297:GLU:OE2	45:UM:300:ASN:ND2	2.21	0.73
45:UM:326:LYS:HE2	46:UN:220:PRO:HD2	1.68	0.73
45:VC:116:ASP:OD1	45:VC:117:LEU:N	2.21	0.73
45:VG:209:ILE:HG21	45:VG:227:LEU:HG	1.71	0.73
45:WG:326:LYS:HE2	46:WJ:220:PRO:HD2	1.70	0.73
45:WI:398:MET:HE1	46:WJ:346:PRO:HD2	1.71	0.73
12:0T:264:LYS:HE3	13:0U:27:ASN:HB2	1.71	0.72
24:1P:126:GLU:OE1	23:3O:342:ARG:NH2	2.22	0.72
16:2B:200:ASP:HB2	16:2B:266:LYS:HE3	1.71	0.72
11:3S:17:LYS:HE3	46:WN:92:PHE:HE2	1.54	0.72
46:AJ:97:ALA:HB3	46:AJ:143:THR:HB	1.69	0.72
46:CF:86:ARG:HH22	46:DF:280:GLN:HB2	1.54	0.72
46:CH:11:GLN:NE2	49:CH:501:GDP:O2A	2.21	0.72
45:CM:128:ASN:OD1	45:DM:285:GLN:NE2	2.20	0.72
46:EB:222:TYR:O	46:EB:226:ASN:ND2	2.22	0.72
45:EC:75:ILE:HD11	45:EC:92:LEU:HB2	1.71	0.72
45:EC:209:ILE:HG22	45:EC:302:MET:HB2	1.71	0.72
46:EL:73:MET:HA	46:EL:76:VAL:HG12	1.71	0.72
46:IL:73:MET:HA	46:IL:76:VAL:HG12	1.71	0.72
46:JJ:173:PRO:HG2	46:JJ:380:ARG:HD2	1.71	0.72
46:OJ:226:ASN:HD21	49:OJ:501:GDP:HN1	1.37	0.72
46:TH:226:ASN:HD21	49:TH:501:GDP:HN1	1.35	0.72
45:UG:288:VAL:HG13	45:UG:373:ARG:HH21	1.52	0.72
45:VK:178:SER:OG	45:VK:183:GLU:OE2	2.06	0.72
46:WB:4:ILE:HD11	46:WB:131:GLN:HB2	1.70	0.72
46:WJ:6:HIS:O	46:WJ:63:ALA:HA	1.89	0.72
46:WL:73:MET:HA	46:WL:76:VAL:HG12	1.71	0.72
19:1J:343:PRO:HB2	19:1J:345:VAL:HG22	1.71	0.72
14:1V:22:ARG:HG3	14:1V:23:TYR:HD1	1.53	0.72
21:2L:541:ASN:ND2	21:2L:577:ASN:OD1	2.21	0.72
23:2O:279:VAL:O	23:2O:283:LYS:NZ	2.20	0.72
45:AK:11:GLN:NE2	46:AL:247:ASN:OD1	2.22	0.72
46:CH:87:PRO:HA	46:CH:90:PHE:HD2	1.54	0.72
46:EB:258:ILE:HG13	46:EB:266:PHE:HZ	1.54	0.72
45:EC:274:PRO:HG3	45:EC:286:LEU:HD11	1.71	0.72
46:ED:323:THR:OG1	45:EE:210:TYR:OH	2.06	0.72
46:IH:156:ARG:NH1	46:IH:195:ASN:O	2.22	0.72
46:NN:236:VAL:HG13	46:NN:237:THR:HG23	1.69	0.72
45:OC:90:GLU:OE2	45:OC:121:ARG:NH1	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PH:207:LEU:HB3	46:PH:225:LEU:HD22	1.70	0.72
46:QB:2:ARG:HH21	45:QC:97:GLU:HB2	1.54	0.72
46:TH:86:ARG:HD2	46:TH:87:PRO:HD2	1.72	0.72
45:VI:1:MET:SD	45:VI:2:ARG:NH1	2.63	0.72
46:VJ:325:GLU:HA	46:VJ:328:GLU:HG3	1.72	0.72
11:0S:18:ARG:NH1	11:0S:27:VAL:O	2.22	0.72
11:1S:215:VAL:HA	11:1S:230:MET:HE3	1.70	0.72
11:1S:221:THR:HG23	11:1S:223:ASP:H	1.54	0.72
13:2U:515:THR:HB	13:2U:517:TRP:HE1	1.53	0.72
34:7R:387:PRO:O	46:EB:276:ARG:NH1	2.22	0.72
46:BH:314:SER:HA	46:BH:350:LYS:HB2	1.72	0.72
45:DG:326:LYS:NZ	46:DH:220:PRO:O	2.20	0.72
46:FH:213:ARG:O	46:FH:216:LYS:NZ	2.19	0.72
45:FK:73:THR:HA	46:FL:46:ARG:HH22	1.53	0.72
46:KH:292:GLN:HG2	46:KH:298:ASN:HD22	1.54	0.72
46:KJ:313:ALA:HB3	46:KJ:349:ILE:HG22	1.68	0.72
45:QC:140:SER:OG	47:QC:501:GTP:O2B	2.06	0.72
46:RJ:317:PHE:HB3	46:RJ:321:MET:HE3	1.70	0.72
45:TE:339:ARG:O	45:TE:342:GLN:NE2	2.23	0.72
45:TK:33:ASP:OD1	45:TK:85:GLN:NE2	2.22	0.72
46:UB:186:THR:HG22	46:UB:190:HIS:CE1	2.25	0.72
46:UF:132:GLY:HA3	46:UF:163:ILE:O	1.88	0.72
46:UH:48:ASN:O	46:UH:62:ARG:NH1	2.21	0.72
45:WC:116:ASP:OD1	45:WC:117:LEU:N	2.22	0.72
2:0B:165:HIS:ND1	2:0B:166:GLU:OE1	2.22	0.72
5:1E:32:ARG:NH1	5:1E:163:GLU:OE2	2.21	0.72
25:1R:96:ASP:OD1	45:AC:370:LYS:NZ	2.14	0.72
31:2I:46:TYR:HD2	46:GH:291:GLN:HB2	1.53	0.72
31:2I:139:ARG:NH2	46:GD:340:TYR:HB2	2.04	0.72
20:2K:409:ALA:O	20:2K:413:GLN:NE2	2.22	0.72
13:2U:555:LYS:HE3	13:2U:576:GLY:H	1.54	0.72
45:BM:72:PRO:HG2	46:BN:1:MET:HE1	1.70	0.72
46:DD:86:ARG:HH21	46:ED:282:ARG:HG2	1.53	0.72
46:KB:156:ARG:HG3	46:KB:195:ASN:HB3	1.71	0.72
45:LA:36:MET:HG2	45:LA:38:SER:H	1.54	0.72
45:LM:287:SER:OG	45:LM:290:GLU:OE1	2.07	0.72
46:NB:66:MET:HG3	46:NB:147:MET:HE3	1.70	0.72
46:OB:135:ILE:HG13	46:OB:152:ILE:HD11	1.72	0.72
45:OE:256:GLN:HG2	46:OH:397:TRP:HH2	1.55	0.72
46:PF:228:LEU:HG	46:PF:300:MET:HE1	1.71	0.72
46:QD:215:LEU:HD22	46:QD:217:LEU:HD23	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QI:352:LYS:HZ3	46:QJ:179:VAL:H	1.33	0.72
46:QL:6:HIS:HD2	46:QL:134:GLN:HE22	1.37	0.72
46:QL:7:ILE:HG22	46:QL:64:ILE:HB	1.70	0.72
46:SH:245:GLN:O	45:SI:11:GLN:NE2	2.22	0.72
46:TL:398:TYR:HB3	46:TL:403:MET:HE2	1.70	0.72
46:UF:207:LEU:HB3	46:UF:225:LEU:HD22	1.71	0.72
46:UL:226:ASN:HD21	49:UL:501:GDP:HN1	1.36	0.72
45:WC:195:LEU:HD21	45:WC:264:ARG:HH21	1.54	0.72
45:WC:422:ARG:HH12	45:WC:426:ALA:HB2	1.53	0.72
4:0D:55:GLY:H	45:EC:221:ARG:HE	1.37	0.72
19:1J:418:MET:HG3	19:1J:419:ASP:H	1.54	0.72
16:2B:72:TYR:OH	16:2B:77:ASP:N	2.22	0.72
30:3H:174:PHE:CD2	34:4R:147:ARG:CZ	2.72	0.72
13:3U:73:GLY:HA3	13:3U:105:ILE:HD11	1.71	0.72
36:5A:172:LEU:HA	36:5A:175:LYS:HZ3	1.54	0.72
46:CH:396:HIS:HA	46:CH:399:THR:HG22	1.70	0.72
45:FC:407:TRP:HZ2	46:FD:258:ILE:HD11	1.53	0.72
46:IB:19:LYS:NZ	46:IB:223:GLY:O	2.22	0.72
45:LK:278:ALA:HA	45:LK:281:ALA:HB3	1.71	0.72
45:PC:116:ASP:HA	45:PC:156:ARG:HH12	1.55	0.72
45:PG:214:ARG:HG2	45:PG:215:ARG:HH12	1.54	0.72
46:RB:15:GLN:NE2	49:RB:501:GDP:N7	2.36	0.72
46:RB:167:PHE:HE2	46:RB:200:MET:HE2	1.55	0.72
46:SH:309:ARG:NH2	46:SH:426:GLN:O	2.20	0.72
46:SJ:11:GLN:NE2	46:SJ:12:CYS:SG	2.62	0.72
46:TJ:313:ALA:HB3	46:TJ:349:ILE:HG12	1.70	0.72
46:UB:200:MET:HG3	46:UB:266:PHE:HB2	1.71	0.72
45:VA:326:LYS:HZ1	46:VD:219:THR:HA	1.53	0.72
45:VK:69:ASP:HB3	45:VK:75:ILE:HD11	1.70	0.72
46:VL:207:LEU:HB3	46:VL:225:LEU:HD22	1.68	0.72
45:WG:55:GLU:HG3	45:WG:57:GLY:H	1.52	0.72
46:WJ:164:MET:HG3	46:WJ:197:ASP:HB2	1.72	0.72
2:0B:227:GLU:H	2:0B:233:ASN:HD22	1.35	0.72
19:1J:391:ILE:HG23	19:1J:394:ARG:HH22	1.53	0.72
14:1V:122:LYS:HD2	14:1V:123:PRO:HD2	1.72	0.72
5:2E:127:ASP:O	5:2E:133:LYS:NZ	2.22	0.72
11:2S:267:LYS:O	10:4Q:35:LYS:NZ	2.21	0.72
12:2T:51:TYR:HE2	12:2T:148:CYS:HA	1.55	0.72
14:2V:239:ARG:HH22	45:VE:55:GLU:HG2	1.52	0.72
1:3A:87:LYS:HG3	1:3A:88:VAL:H	1.53	0.72
46:AH:58:ARG:HD2	46:BH:280:GLN:HE22	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DD:86:ARG:CZ	46:ED:281:TYR:HB2	2.19	0.72
45:HE:258:ASN:HB3	45:HE:352:LYS:HD2	1.71	0.72
46:ID:8:GLN:HE21	46:ID:65:LEU:HG	1.53	0.72
46:KB:382:ALA:HB2	46:KB:415:MET:HE1	1.71	0.72
45:OC:210:TYR:CD1	46:OD:324:LYS:HE3	2.24	0.72
45:PA:215:ARG:NH2	45:PA:299:ALA:O	2.23	0.72
46:RB:86:ARG:HH22	46:SB:282:ARG:HD2	1.53	0.72
46:RH:102:ALA:HB2	46:RH:403:MET:HE2	1.70	0.72
46:SJ:135:ILE:HG13	46:SJ:152:ILE:HD11	1.71	0.72
46:UH:215:LEU:HB3	46:UH:217:LEU:HD23	1.72	0.72
46:UL:3:GLU:HG3	46:UL:49:VAL:HA	1.72	0.72
46:UL:135:ILE:HG13	46:UL:152:ILE:HD11	1.72	0.72
46:VF:100:ASN:HD22	46:VF:103:LYS:HG3	1.55	0.72
7:1G:179:ILE:HG13	7:1G:180:PRO:HD3	1.70	0.72
13:1U:166:LEU:HD23	13:1U:168:ASN:H	1.53	0.72
21:2L:282:LYS:HZ2	21:2L:284:ILE:HD13	1.54	0.72
31:3I:197:GLN:NE2	45:FK:123:ARG:O	2.22	0.72
11:3S:10:ASN:HD21	11:3S:279:LYS:HG3	1.54	0.72
34:5R:12:LEU:HB2	34:5R:15:HIS:HD2	1.54	0.72
46:AF:73:MET:HA	46:AF:76:VAL:HG12	1.70	0.72
46:AF:372:THR:HA	46:AF:422:TYR:HE2	1.53	0.72
46:DL:350:LYS:HE3	45:DM:180:ALA:HA	1.71	0.72
45:FG:292:THR:HG21	45:FG:331:SER:HB3	1.70	0.72
45:FG:394:LYS:NZ	46:FH:346:PRO:O	2.23	0.72
45:HA:326:LYS:HZ2	46:HD:208:TYR:HB3	1.54	0.72
45:HE:316:SER:HA	45:HE:352:LYS:HB2	1.72	0.72
45:HI:292:THR:HG21	45:HI:331:SER:HB3	1.71	0.72
45:HK:414:GLU:HB3	45:HK:417:GLU:HG2	1.71	0.72
45:IE:326:LYS:HD3	46:IH:220:PRO:HD2	1.71	0.72
46:KF:218:THR:HG23	46:KF:219:THR:HG23	1.72	0.72
45:KI:292:THR:HG21	45:KI:331:SER:HB3	1.69	0.72
45:NI:55:GLU:HG3	45:NI:57:GLY:H	1.55	0.72
46:NJ:213:ARG:HH22	46:NJ:297:LYS:HB3	1.52	0.72
45:NM:301:MET:HG3	45:NM:303:ALA:H	1.55	0.72
46:OH:178:THR:HG22	46:OH:180:VAL:H	1.55	0.72
46:QH:257:LEU:HD11	46:QH:314:SER:HB2	1.72	0.72
45:QI:244:PHE:HB2	45:QI:356:ASN:HD21	1.55	0.72
46:RJ:15:GLN:NE2	49:RJ:501:GDP:N7	2.37	0.72
45:TE:287:SER:N	45:TE:290:GLU:OE2	2.20	0.72
13:0U:512:ARG:HB3	13:0U:530:GLY:HA2	1.70	0.72
4:1D:224:ARG:HH22	34:4R:583:GLN:HA	1.55	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:4S:209:ARG:HH22	46:WD:118:ASP:HB2	1.53	0.72
40:6G:136:PRO:O	45:UI:123:ARG:NH1	2.23	0.72
34:6R:296:GLY:HA3	46:DN:276:ARG:HB3	1.72	0.72
45:AA:288:VAL:HG11	45:AA:327:ASP:HB3	1.70	0.72
45:CA:288:VAL:HG11	45:CA:327:ASP:HB3	1.71	0.72
46:CD:248:SER:HA	46:CD:252:LYS:HD2	1.70	0.72
46:ID:382:ALA:HB2	46:ID:415:MET:HE1	1.71	0.72
46:KH:260:PHE:HB2	46:KH:263:LEU:HD13	1.72	0.72
45:LI:292:THR:HG21	45:LI:331:SER:HB3	1.69	0.72
46:ND:178:THR:HB	46:ND:181:GLU:HG3	1.72	0.72
45:NG:292:THR:HG21	45:NG:331:SER:HB3	1.70	0.72
46:NJ:236:VAL:HG23	46:NJ:237:THR:HG23	1.72	0.72
46:PD:319:GLY:HA2	46:PD:357:PRO:HG3	1.71	0.72
46:PJ:217:LEU:HD23	46:PJ:219:THR:H	1.54	0.72
45:PK:1:MET:SD	46:PN:94:GLN:NE2	2.63	0.72
45:PK:15:GLN:NE2	47:PK:501:GTP:O6	2.22	0.72
46:RD:322:SER:OG	46:RD:325:GLU:OE1	2.07	0.72
46:RH:12:CYS:HA	46:RH:15:GLN:HE21	1.53	0.72
46:TD:129:CYS:SG	45:TE:96:LYS:NZ	2.59	0.72
45:TE:288:VAL:HG11	45:TE:327:ASP:HB3	1.71	0.72
46:TL:42:LEU:HB3	46:TL:242:PHE:HE1	1.55	0.72
46:UF:215:LEU:HB3	46:UF:217:LEU:HD23	1.70	0.72
46:WF:218:THR:HG23	46:WF:219:THR:HG23	1.71	0.72
15:0X:60:GLU:HB3	15:0X:64:ARG:NH1	2.04	0.72
17:1F:158:ASN:ND2	46:HL:337:ASN:OD1	2.22	0.72
19:1J:229:VAL:HG22	29:2G:94:ILE:HD13	1.72	0.72
19:1J:320:ILE:HD11	19:1J:339:GLY:HA2	1.70	0.72
1:2A:129:PRO:HD3	46:AJ:362:LYS:HG2	1.70	0.72
16:2B:62:THR:HA	45:LK:84:ARG:HH22	1.53	0.72
25:2R:131:ASP:O	25:2R:156:LYS:NZ	2.23	0.72
25:3R:330:GLY:O	25:3R:341:ARG:NH1	2.23	0.72
37:5E:120:GLU:HG2	37:5E:121:GLU:H	1.54	0.72
34:5R:316:THR:HB	34:5R:321:MET:HE3	1.71	0.72
46:CH:330:MET:HB3	46:CH:349:ILE:HD12	1.72	0.72
45:FG:76:ASP:OD1	45:FG:79:ARG:NH2	2.22	0.72
46:HB:133:PHE:HD1	46:HB:164:MET:HE1	1.55	0.72
46:HH:73:MET:HA	46:HH:76:VAL:HG12	1.72	0.72
45:JC:259:LEU:HB3	45:JC:268:MET:HE1	1.70	0.72
45:MA:47:ASP:OD1	45:MA:50:ASN:ND2	2.23	0.72
45:MC:292:THR:HG21	45:MC:331:SER:HB2	1.71	0.72
45:MG:406:HIS:HA	45:MG:409:VAL:HG12	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ML:73:MET:HA	46:ML:76:VAL:HG12	1.70	0.72
45:MM:282:TYR:OH	45:MM:370:LYS:O	2.07	0.72
45:NI:398:MET:HE1	46:NJ:345:ILE:HD12	1.71	0.72
45:PE:11:GLN:NE2	46:PF:247:ASN:OD1	2.22	0.72
45:VK:261:PRO:HD2	45:VK:262:TYR:N	2.04	0.72
45:WE:256:GLN:HG2	45:WE:260:VAL:HB	1.72	0.72
45:WG:9:VAL:HG12	45:WG:68:LEU:HB2	1.70	0.72
46:WJ:135:ILE:HG13	46:WJ:152:ILE:HD11	1.72	0.72
45:DC:140:SER:OG	47:DC:501:GTP:O2B	2.08	0.72
24:1P:289:GLU:HA	24:1P:292:GLU:HG3	1.71	0.72
15:1X:83:MET:HE1	34:4R:49:ASN:HA	1.71	0.72
23:2O:148:MET:SD	45:VK:370:LYS:NZ	2.63	0.72
23:3O:295:GLU:OE1	23:3O:299:LYS:NZ	2.23	0.72
36:5D:87:ARG:NH2	45:NM:364:PRO:O	2.23	0.72
46:AJ:178:THR:HG22	46:AJ:180:VAL:H	1.52	0.72
46:AN:148:GLY:O	46:AN:152:ILE:HG12	1.90	0.72
46:CB:49:VAL:HG13	46:CB:50:TYR:HD2	1.54	0.72
46:CD:207:LEU:HB3	46:CD:225:LEU:HD22	1.72	0.72
45:DI:141:VAL:HG11	45:DI:172:TYR:HD1	1.54	0.72
45:GC:311:LYS:NZ	45:GC:342:GLN:OE1	2.20	0.72
46:GF:285:THR:N	46:GF:288:GLU:OE2	2.23	0.72
45:JA:220:GLU:HG3	45:JA:221:ARG:HG2	1.70	0.72
45:JC:90:GLU:HG3	45:JC:121:ARG:HH12	1.55	0.72
46:KN:213:ARG:HH12	46:KN:297:LYS:HE2	1.53	0.72
46:LN:285:THR:OG1	46:LN:288:GLU:OE1	2.08	0.72
45:NA:73:THR:OG1	46:NB:46:ARG:NH2	2.22	0.72
45:NE:141:VAL:HG11	45:NE:172:TYR:HD1	1.55	0.72
46:PF:8:GLN:HE21	46:PF:65:LEU:HD22	1.53	0.72
46:TF:258:ILE:HD11	45:TG:407:TRP:HZ2	1.54	0.72
45:TK:288:VAL:HG21	45:TK:327:ASP:HB3	1.70	0.72
45:VI:22:GLU:OE1	45:VI:83:TYR:OH	2.07	0.72
45:WK:41:THR:HG22	45:WK:42:ILE:H	1.54	0.72
13:1U:68:LYS:HG3	13:1U:69:TYR:H	1.54	0.71
13:1U:74:GLN:NE2	13:1U:83:ASP:OD1	2.21	0.71
11:3S:140:ARG:CZ	10:5Q:72:LYS:HD2	2.20	0.71
33:4F:198:LYS:NZ	45:IM:217:LEU:O	2.23	0.71
46:CF:299:MET:HE1	46:CF:367:PHE:HE2	1.55	0.71
46:GH:14:ASN:HD21	46:GH:73:MET:HE2	1.54	0.71
46:GL:1:MET:HE3	46:GL:2:ARG:H	1.55	0.71
45:JA:115:VAL:HG11	45:JA:152:LEU:HD22	1.72	0.71
46:LB:86:ARG:HD3	46:LB:87:PRO:HD2	1.70	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NC:271:SER:OG	45:NC:301:MET:SD	2.47	0.71
45:NC:292:THR:HG21	45:NC:331:SER:HB3	1.72	0.71
46:OB:276:ARG:NH2	46:OB:279:GLN:OE1	2.22	0.71
45:OC:398:MET:HE1	46:OD:345:ILE:HA	1.71	0.71
46:QB:86:ARG:HE	46:QB:87:PRO:HD2	1.54	0.71
46:QF:207:LEU:HB3	46:QF:225:LEU:HD22	1.70	0.71
45:QG:195:LEU:HD21	45:QG:264:ARG:HE	1.55	0.71
46:SJ:163:ILE:HD12	46:SJ:250:LEU:HD22	1.71	0.71
46:UJ:350:LYS:HZ3	45:UK:181:VAL:N	1.88	0.71
45:UK:2:ARG:HH12	46:UL:70:PRO:HD2	1.54	0.71
45:WI:326:LYS:HD2	46:WL:208:TYR:HB3	1.71	0.71
9:0N:204:GLY:O	9:0N:273:ARG:NH2	2.23	0.71
11:0S:278:ARG:HH22	46:WB:119:VAL:HG13	1.53	0.71
23:2O:392:ARG:O	23:2O:396:GLN:NE2	2.22	0.71
10:3Q:36:ARG:HG3	35:5S:204:ILE:HD13	1.72	0.71
25:3R:454:ARG:HH21	46:FL:218:THR:HB	1.53	0.71
34:5R:284:THR:HG22	34:5R:308:LYS:HG2	1.71	0.71
34:6R:316:THR:HB	34:6R:321:MET:HE3	1.72	0.71
45:AA:69:ASP:OD1	45:AA:71:GLU:N	2.23	0.71
46:CB:11:GLN:NE2	49:CB:501:GDP:O1A	2.22	0.71
46:CB:135:ILE:HG13	46:CB:152:ILE:HD11	1.72	0.71
45:CG:212:ILE:HD13	45:CG:215:ARG:HH22	1.55	0.71
45:DI:288:VAL:HG11	45:DI:327:ASP:HB3	1.71	0.71
46:DL:83:GLN:O	46:EL:281:TYR:OH	2.08	0.71
46:EB:1:MET:O	46:EB:46:ARG:NH2	2.22	0.71
46:FN:113:ILE:HD12	46:FN:154:LYS:HZ3	1.55	0.71
46:HN:304:ASP:HB3	46:HN:307:HIS:CE1	2.24	0.71
46:IL:109:GLY:HA2	46:IL:147:MET:HE2	1.70	0.71
45:NK:54:SER:HB3	45:NK:64:ARG:HE	1.54	0.71
45:NM:55:GLU:HG3	45:NM:57:GLY:H	1.53	0.71
46:PD:11:GLN:O	46:PD:15:GLN:NE2	2.23	0.71
45:QA:268:MET:HE1	45:QA:378:ILE:HD11	1.73	0.71
46:SB:267:MET:HE3	46:SB:301:CYS:HB2	1.71	0.71
46:SL:200:MET:HE1	46:SL:266:PHE:HB2	1.71	0.71
46:TJ:269:GLY:HA2	46:TJ:300:MET:HE3	1.71	0.71
46:UB:258:ILE:HD12	46:UB:264:HIS:HB3	1.72	0.71
46:WD:382:ALA:HB2	46:WD:415:MET:HE1	1.71	0.71
45:WI:292:THR:HG21	45:WI:331:SER:HB3	1.73	0.71
3:0C:37:ILE:HD11	45:DI:79:ARG:HB2	1.72	0.71
7:0G:38:GLU:O	7:0G:39:ARG:HG2	1.90	0.71
13:0U:511:ASP:HB3	13:0U:513:LYS:HE2	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:1F:21:GLN:HE22	46:HL:320:ARG:HD3	1.55	0.71
21:1L:70:LEU:HA	21:1L:73:LEU:HD13	1.72	0.71
10:4Q:57:ASN:HB2	10:4Q:158:ALA:HB2	1.71	0.71
37:5E:69:LYS:NZ	37:5E:70:GLU:O	2.22	0.71
37:5F:147:GLN:HA	37:5F:150:ILE:HG22	1.70	0.71
34:7R:137:SER:HA	46:BD:276:ARG:HH21	1.55	0.71
45:AE:178:SER:OG	46:AF:347:ASN:ND2	2.23	0.71
46:CD:318:ARG:HB2	46:CD:364:ALA:HB3	1.72	0.71
45:FA:157:LEU:HD22	45:FA:166:LYS:HD3	1.71	0.71
46:JB:200:MET:HG2	46:JB:266:PHE:HB2	1.71	0.71
45:JE:31:GLN:HE22	45:JE:37:PRO:HG3	1.55	0.71
45:KA:15:GLN:NE2	47:KA:501:GTP:O6	2.23	0.71
45:KA:64:ARG:NH1	45:KA:129:CYS:SG	2.63	0.71
46:LB:257:LEU:HD21	46:LB:314:SER:HB2	1.72	0.71
45:LC:11:GLN:NE2	46:LD:245:GLN:O	2.24	0.71
45:MK:259:LEU:HD21	45:MK:316:SER:HB3	1.73	0.71
46:NB:187:LEU:O	46:NB:191:GLN:NE2	2.23	0.71
46:OD:66:MET:HE1	46:OD:147:MET:HG3	1.72	0.71
46:PH:207:LEU:HD13	46:PH:225:LEU:HB3	1.71	0.71
46:QB:169:VAL:HG12	46:QB:202:ILE:HB	1.73	0.71
46:QL:6:HIS:CD2	46:QL:8:GLN:HE22	2.07	0.71
45:QM:21:TRP:HA	45:QM:24:PHE:HB2	1.70	0.71
45:RM:227:LEU:HD11	47:RM:501:GTP:HN1	1.56	0.71
46:TB:334:GLN:HA	46:TB:341:PHE:HE2	1.56	0.71
45:TK:131:GLY:O	45:TK:133:GLN:NE2	2.23	0.71
46:TN:100:ASN:ND2	46:TN:401:GLU:OE1	2.23	0.71
46:VN:83:GLN:HE21	46:VN:84:LEU:HD22	1.55	0.71
46:WB:276:ARG:O	46:WB:279:GLN:NE2	2.23	0.71
2:0B:223:LYS:HE2	45:JI:357:TYR:CD2	2.26	0.71
6:0F:161:THR:OG1	6:0F:163:ASP:OD1	2.08	0.71
8:1H:348:ARG:HA	8:1H:351:LYS:HD2	1.70	0.71
25:2R:216:TRP:CD1	46:BJ:276:ARG:HH22	2.08	0.71
25:2R:312:GLN:HE22	46:CH:361:LEU:N	1.88	0.71
25:3R:380:PRO:HB2	46:EL:279:GLN:HE21	1.54	0.71
45:BC:326:LYS:HE3	46:BF:219:THR:HA	1.72	0.71
45:BK:219:ILE:HG22	45:BK:222:PRO:HD3	1.70	0.71
46:CB:73:MET:HA	46:CB:76:VAL:HG12	1.72	0.71
46:CF:222:TYR:O	46:CF:226:ASN:ND2	2.21	0.71
45:CI:326:LYS:NZ	46:CJ:220:PRO:O	2.20	0.71
46:CL:267:MET:HE1	46:CL:301:CYS:HB2	1.73	0.71
45:HE:244:PHE:HB2	45:HE:356:ASN:HD21	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:IL:213:ARG:HD2	46:IL:297:LYS:HD3	1.72	0.71
45:JG:65:ALA:O	45:JG:91:GLN:NE2	2.24	0.71
46:LD:309:ARG:NH1	46:LD:426:GLN:O	2.23	0.71
46:LF:200:MET:HG2	46:LF:266:PHE:HB2	1.70	0.71
46:LJ:207:LEU:HB3	46:LJ:225:LEU:HD22	1.72	0.71
46:NB:318:ARG:HG2	46:NB:357:PRO:HA	1.71	0.71
45:OA:207:GLU:HB2	45:OA:304:LYS:HD3	1.71	0.71
45:QG:119:LEU:HG	45:QG:156:ARG:HE	1.54	0.71
45:QI:9:VAL:HG12	45:QI:68:LEU:HB2	1.72	0.71
45:QK:258:ASN:HB3	45:QK:352:LYS:HD2	1.71	0.71
45:RC:30:ILE:HG13	45:RC:36:MET:HE1	1.72	0.71
46:RH:5:VAL:HG12	46:RH:62:ARG:HD3	1.72	0.71
46:SL:6:HIS:HE1	46:SL:8:GLN:HB3	1.55	0.71
46:TF:149:THR:OG1	46:TF:191:GLN:OE1	2.08	0.71
46:TL:119:VAL:HA	46:TL:122:LYS:HE3	1.72	0.71
45:WA:258:ASN:HD21	45:WA:352:LYS:HE3	1.53	0.71
46:WD:49:VAL:HG11	46:WD:241:ARG:HG2	1.71	0.71
46:WL:19:LYS:HZ2	46:WL:227:HIS:HA	1.54	0.71
11:0S:213:ILE:HA	11:0S:216:LYS:HE3	1.73	0.71
20:1K:80:ARG:HH22	22:1M:285:LYS:H	1.36	0.71
20:1K:212:ARG:NH1	45:GA:372:MET:SD	2.62	0.71
24:1P:200:LEU:HD21	46:TH:276:ARG:HD3	1.71	0.71
11:1S:7:GLN:HG2	11:1S:8:GLN:H	1.54	0.71
29:2G:65:LYS:NZ	22:2M:282:GLU:OE2	2.16	0.71
21:2L:691:SER:HB3	21:2L:698:ARG:HD2	1.72	0.71
23:2O:406:ARG:HG3	46:VD:276:ARG:NH2	2.06	0.71
5:3E:132:ILE:HD11	5:3E:142:VAL:HG21	1.73	0.71
21:3L:60:VAL:HG13	21:3L:97:LYS:HE2	1.73	0.71
25:3R:300:LYS:NZ	46:CL:79:GLY:HA2	2.06	0.71
14:3V:119:ILE:HG13	14:3V:120:GLU:H	1.55	0.71
45:AE:259:LEU:HD11	45:AE:316:SER:HB3	1.70	0.71
45:BI:292:THR:HG21	45:BI:331:SER:HB3	1.73	0.71
46:ED:73:MET:HA	46:ED:76:VAL:HG12	1.72	0.71
45:EM:271:SER:OG	45:EM:301:MET:SD	2.49	0.71
45:HK:27:GLU:OE1	45:HK:243:ARG:NH1	2.23	0.71
45:IC:326:LYS:HZ1	46:IF:220:PRO:C	1.98	0.71
46:LB:293:MET:HE1	46:LB:367:PHE:HB2	1.70	0.71
45:MI:96:LYS:NZ	46:MJ:1:MET:SD	2.62	0.71
46:ON:215:LEU:HB3	46:ON:217:LEU:HD23	1.71	0.71
46:PN:257:LEU:HD11	46:PN:314:SER:HB3	1.72	0.71
45:RE:254:GLU:OE2	45:RE:258:ASN:ND2	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RN:139:LEU:HD22	46:RN:170:VAL:HG12	1.73	0.71
45:SE:268:MET:HE2	45:SE:380:ASN:HB2	1.72	0.71
45:SI:169:PHE:HB3	45:SI:204:LEU:HD11	1.72	0.71
46:TD:68:LEU:HD13	46:TD:93:GLY:HA3	1.72	0.71
46:UB:223:GLY:O	46:UB:227:HIS:ND1	2.23	0.71
45:VI:326:LYS:HG2	46:VL:220:PRO:HG2	1.72	0.71
45:WE:215:ARG:HH12	45:WE:299:ALA:HB1	1.55	0.71
46:WH:16:ILE:HD12	46:WH:229:VAL:HG11	1.73	0.71
7:0G:34:ARG:HH12	7:0G:36:ILE:HB	1.56	0.71
9:0N:75:MET:HE1	9:0N:115:ALA:HA	1.72	0.71
24:1P:76:LEU:HA	24:1P:79:LYS:HG2	1.71	0.71
24:1P:290:LEU:O	24:1P:293:LYS:HG3	1.90	0.71
24:1P:373:ALA:O	24:1P:377:GLN:NE2	2.24	0.71
25:1R:43:PRO:O	25:1R:44:VAL:HG23	1.89	0.71
13:1U:502:GLU:HG3	13:1U:504:GLN:H	1.55	0.71
27:2C:33:ARG:NH1	27:2C:176:ASP:OD2	2.23	0.71
35:4S:109:LEU:HD21	35:4S:164:LYS:HG3	1.70	0.71
37:5E:83:LEU:HD11	45:KA:405:VAL:HB	1.73	0.71
46:BH:4:ILE:HD11	46:BH:131:GLN:HB2	1.73	0.71
46:DJ:281:TYR:HB3	46:DJ:282:ARG:HH21	1.55	0.71
46:DL:371:SER:O	46:DL:422:TYR:OH	2.07	0.71
45:FG:210:TYR:HD1	46:FH:324:LYS:HZ2	1.37	0.71
45:GA:254:GLU:HG2	46:GD:98:GLY:HA2	1.72	0.71
46:GH:68:LEU:HD21	46:GH:147:MET:HE3	1.70	0.71
45:IK:175:PRO:HA	45:IK:390:ARG:NH1	2.04	0.71
46:IN:68:LEU:HB3	46:IN:96:GLY:HA2	1.72	0.71
45:JI:90:GLU:HG3	45:KI:280:LYS:HZ1	1.55	0.71
46:LD:107:THR:OG1	46:LD:108:GLU:OE1	2.09	0.71
46:MB:73:MET:HA	46:MB:76:VAL:HG12	1.73	0.71
45:NI:72:PRO:HD2	46:NJ:2:ARG:HH21	1.55	0.71
46:OD:164:MET:SD	46:OD:197:ASP:N	2.61	0.71
45:OM:174:SER:OG	45:OM:206:ASN:OD1	2.09	0.71
45:QI:2:ARG:NH1	46:QJ:69:GLU:OE2	2.23	0.71
46:TF:226:ASN:HD21	49:TF:501:GDP:HN1	1.37	0.71
46:VB:91:VAL:HG21	46:VB:116:VAL:HG12	1.72	0.71
45:VE:287:SER:N	45:VE:290:GLU:OE2	2.23	0.71
13:0U:513:LYS:HB3	13:0U:526:ARG:HH12	1.54	0.71
22:1M:320:ILE:O	22:1M:336:THR:OG1	2.07	0.71
20:2K:383:ILE:HG22	20:2K:387:GLN:HE22	1.55	0.71
12:2T:113:ASP:OD1	12:2T:114:LYS:N	2.24	0.71
36:5D:89:TYR:HD2	45:NM:364:PRO:HB3	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5D:90:GLN:HE21	36:5D:98:LEU:HG	1.55	0.71
40:6G:173:GLU:OE1	40:6G:177:ARG:NH1	2.23	0.71
34:6R:474:MET:SD	34:6R:476:HIS:ND1	2.64	0.71
46:DJ:200:MET:HG3	46:DJ:266:PHE:HB2	1.70	0.71
46:FD:293:MET:HE2	46:FD:365:VAL:HG11	1.72	0.71
45:SM:220:GLU:OE2	45:SM:221:ARG:NH1	2.24	0.71
45:TK:188:ILE:HD12	45:TK:425:LEU:HD11	1.72	0.71
45:VK:76:ASP:OD2	46:VL:46:ARG:NH2	2.23	0.71
45:VK:173:PRO:O	45:VK:390:ARG:NH2	2.24	0.71
25:1R:254:ASN:HD21	25:1R:275:LEU:HB3	1.55	0.71
11:1S:96:LEU:HD22	11:1S:97:ARG:HH11	1.55	0.71
24:2P:478:TRP:HA	24:2P:481:ARG:NE	2.06	0.71
11:2S:32:LYS:HZ2	11:2S:33:ASN:HB3	1.56	0.71
14:2V:119:ILE:HG13	14:2V:120:GLU:H	1.56	0.71
13:3U:233:VAL:HG22	13:3U:234:LYS:HD2	1.72	0.71
45:AA:69:ASP:OD1	45:AA:70:LEU:N	2.24	0.71
45:AA:101:ASN:HA	45:AA:144:GLY:H	1.56	0.71
46:AB:100:ASN:ND2	46:AB:401:GLU:OE1	2.24	0.71
46:BD:222:TYR:O	46:BD:226:ASN:ND2	2.20	0.71
46:BH:276:ARG:HA	46:BH:279:GLN:HG2	1.72	0.71
45:BI:55:GLU:HG3	45:BI:57:GLY:H	1.55	0.71
45:BK:210:TYR:HE1	45:BK:227:LEU:HD11	1.55	0.71
46:CD:371:SER:O	46:CD:422:TYR:OH	2.09	0.71
45:CK:244:PHE:HB2	45:CK:356:ASN:HD21	1.55	0.71
45:FK:288:VAL:HG11	45:FK:327:ASP:HB3	1.72	0.71
45:GC:109:THR:HG22	45:GC:110:ILE:HG23	1.72	0.71
45:GM:221:ARG:NH1	46:GN:322:SER:OG	2.23	0.71
46:JF:54:ALA:HA	46:KF:283:ALA:HB2	1.72	0.71
45:KM:414:GLU:HG2	45:KM:416:GLY:H	1.55	0.71
46:LN:135:ILE:HG13	46:LN:152:ILE:HD11	1.70	0.71
46:NN:130:LEU:HD22	46:NN:162:ARG:HG3	1.73	0.71
46:OF:83:GLN:O	46:PF:281:TYR:OH	2.07	0.71
45:PA:51:THR:O	45:PA:64:ARG:NH1	2.22	0.71
46:PD:86:ARG:HH21	46:PD:87:PRO:HG2	1.56	0.71
46:QH:322:SER:OG	46:QH:325:GLU:OE1	2.07	0.71
46:SN:293:MET:HE2	46:SN:367:PHE:HB2	1.71	0.71
45:VA:399:TYR:O	45:VA:402:ARG:NH1	2.23	0.71
5:0E:85:LEU:HA	5:0E:88:ILE:HG22	1.73	0.71
15:0X:31:ASP:OD1	15:0X:37:ARG:NH2	2.24	0.71
9:1N:69:LYS:HD2	9:1N:129:ASP:HB3	1.72	0.71
15:1X:78:ASN:HD22	46:MF:280:GLN:HG3	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:2N:147:GLU:HG2	9:2N:148:LYS:HD2	1.71	0.71
14:2V:91:GLY:HA3	46:LF:194:GLU:HB3	1.73	0.71
16:3B:170:TYR:OH	16:3B:193:TRP:NE1	2.22	0.71
36:5C:68:ASP:OD1	37:5G:69:LYS:NZ	2.19	0.71
40:6G:166:PHE:CE2	46:VH:212:PHE:HB3	2.26	0.71
45:GG:221:ARG:NH1	46:GH:325:GLU:OE2	2.24	0.71
45:HI:2:ARG:HB3	45:HI:133:GLN:HE22	1.55	0.71
45:IG:121:ARG:HH12	45:IG:124:LYS:HE3	1.56	0.71
45:IM:11:GLN:NE2	47:IM:501:GTP:O3A	2.24	0.71
46:JH:217:LEU:HD23	46:JH:219:THR:H	1.56	0.71
45:JK:406:HIS:HA	45:JK:409:VAL:HG12	1.73	0.71
46:KL:207:LEU:HB3	46:KL:225:LEU:HD22	1.72	0.71
45:OI:1:MET:SD	46:OL:94:GLN:NE2	2.64	0.71
46:QD:1:MET:HE2	45:QE:72:PRO:HG2	1.73	0.71
45:RA:215:ARG:NH2	45:RA:300:ASN:OD1	2.23	0.71
46:SF:268:ILE:HG22	46:SF:368:VAL:HG22	1.73	0.71
46:UB:324:LYS:HZ3	45:UC:221:ARG:HH11	1.38	0.71
45:UI:88:HIS:CE1	45:UI:90:GLU:HG2	2.26	0.71
45:UM:101:ASN:HA	45:UM:144:GLY:H	1.55	0.71
46:WB:48:ASN:O	46:WB:62:ARG:NH1	2.22	0.71
8:0H:407:LEU:O	8:0H:411:ALA:HB2	1.90	0.71
13:0U:500:PRO:HD3	13:0U:541:ILE:HD12	1.73	0.71
23:1O:146:MET:SD	23:3O:470:LYS:NZ	2.64	0.71
11:1S:184:PRO:HG3	45:WC:127:ASP:HB3	1.72	0.71
28:2F:74:SER:OG	46:HF:291:GLN:NE2	2.23	0.71
21:2L:658:ARG:NH2	46:BN:41:ASP:O	2.24	0.71
25:2R:312:GLN:HG3	25:2R:313:PRO:HD3	1.73	0.71
34:4R:33:LEU:HB2	46:LF:92:PHE:HE2	1.55	0.71
45:AM:55:GLU:HG3	45:AM:57:GLY:H	1.54	0.71
45:BG:313:MET:HE2	45:BG:382:THR:HG22	1.73	0.71
45:CI:180:ALA:HB3	45:CI:183:GLU:HG3	1.73	0.71
46:CJ:325:GLU:OE2	45:CK:221:ARG:NH1	2.23	0.71
46:DH:6:HIS:O	46:DH:63:ALA:HA	1.91	0.71
46:DH:67:ASP:O	46:DH:92:PHE:HA	1.91	0.71
46:EH:11:GLN:NE2	49:EH:501:GDP:O1A	2.23	0.71
45:IG:242:LEU:HD11	45:IG:252:ILE:HD11	1.73	0.71
46:ND:262:ARG:NH2	46:ND:414:ASN:OD1	2.24	0.71
45:PA:352:LYS:HE2	46:PD:179:VAL:HG22	1.73	0.71
45:PK:326:LYS:HE2	46:PN:220:PRO:HD2	1.72	0.71
45:RE:387:VAL:HG12	45:RE:390:ARG:HH22	1.55	0.71
46:RF:223:GLY:O	46:RF:227:HIS:ND1	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TF:32:PRO:O	46:TF:83:GLN:NE2	2.22	0.71
45:TG:392:ASP:OD1	45:TG:422:ARG:NH1	2.24	0.71
46:TL:271:ALA:HB3	46:TL:365:VAL:HB	1.73	0.71
45:VA:221:ARG:NH1	46:VB:325:GLU:OE2	2.24	0.71
45:WA:11:GLN:NE2	45:WA:71:GLU:OE2	2.24	0.71
45:WE:288:VAL:HG11	45:WE:327:ASP:HB3	1.70	0.71
45:WG:292:THR:HG21	45:WG:331:SER:HB3	1.71	0.71
4:0D:181:ILE:HG12	4:0D:195:ARG:HH21	1.55	0.70
5:0E:60:THR:OG1	5:0E:63:GLU:OE1	2.07	0.70
10:0Q:48:GLU:OE2	10:0Q:50:MET:HG2	1.90	0.70
13:0U:133:ASP:HB2	13:0U:138:LYS:HZ2	1.56	0.70
14:0V:45:ARG:O	14:0V:47:GLY:N	2.24	0.70
4:1D:44:TYR:HA	4:1D:45:ILE:HB	1.70	0.70
19:1J:315:PHE:HB2	45:IK:282:TYR:CE2	2.26	0.70
13:1U:319:HIS:NE2	13:1U:340:SER:OG	2.22	0.70
20:2K:318:GLN:OE1	45:GI:370:LYS:NZ	2.24	0.70
1:3A:29:TRP:NE1	15:3X:66:GLU:OE1	2.24	0.70
35:5S:126:GLU:OE1	35:5S:130:ARG:NH2	2.21	0.70
34:6R:455:VAL:HB	34:6R:471:LEU:HB2	1.73	0.70
45:BG:31:GLN:HE22	45:BG:37:PRO:HG3	1.55	0.70
45:EM:65:ALA:O	45:EM:121:ARG:NH2	2.22	0.70
45:FK:132:LEU:HD23	45:FK:164:LYS:HE2	1.73	0.70
46:GH:382:ALA:HB2	46:GH:415:MET:HE1	1.72	0.70
46:HJ:68:LEU:HB3	46:HJ:96:GLY:HA2	1.73	0.70
46:HN:68:LEU:HD21	46:HN:147:MET:HE3	1.73	0.70
45:IG:288:VAL:HG21	45:IG:327:ASP:HB3	1.73	0.70
46:IJ:6:HIS:CD2	46:IJ:134:GLN:HE22	2.08	0.70
46:IJ:135:ILE:HG13	46:IJ:152:ILE:HD11	1.73	0.70
46:MD:73:MET:HA	46:MD:76:VAL:HG12	1.73	0.70
45:OA:184:PRO:HB3	45:OA:394:LYS:HG3	1.72	0.70
46:PH:228:LEU:HB3	46:PH:300:MET:HE1	1.71	0.70
45:PK:175:PRO:HG3	45:PK:390:ARG:HH12	1.56	0.70
46:QH:83:GLN:O	46:RH:281:TYR:OH	2.08	0.70
45:TC:260:VAL:HB	46:TD:397:TRP:HZ2	1.54	0.70
46:TD:324:LYS:HZ1	45:TE:222:PRO:HG2	1.56	0.70
45:UI:292:THR:HG21	45:UI:331:SER:HB3	1.73	0.70
46:WF:273:LEU:H	46:WF:292:GLN:HE22	1.39	0.70
45:WK:292:THR:HG21	45:WK:331:SER:HB3	1.70	0.70
46:WN:187:LEU:O	46:WN:191:GLN:NE2	2.24	0.70
2:0B:180:ARG:HH11	2:0B:182:LEU:HD11	1.55	0.70
7:0G:53:ASN:HA	45:JK:364:PRO:HG2	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:1O:278:ARG:NH1	23:1O:281:GLU:OE1	2.23	0.70
24:1P:222:LEU:O	24:1P:223:ARG:HD3	1.91	0.70
21:2L:620:LEU:HG	21:2L:621:THR:H	1.55	0.70
9:2N:183:TRP:HB3	9:2N:209:ILE:HD11	1.72	0.70
25:2R:8:LEU:HB3	25:2R:9:PRO:HD2	1.73	0.70
25:2R:351:ASP:OD1	25:2R:354:ARG:NH1	2.24	0.70
34:4R:450:ASP:OD2	34:4R:452:THR:OG1	2.07	0.70
37:5F:123:ARG:HA	45:OE:370:LYS:HE2	1.73	0.70
46:AF:77:ARG:HH12	46:AF:90:PHE:HE2	1.39	0.70
45:BA:76:ASP:OD2	46:BB:46:ARG:NH2	2.23	0.70
46:BL:73:MET:HA	46:BL:76:VAL:HG12	1.73	0.70
46:CJ:222:TYR:O	46:CJ:226:ASN:ND2	2.24	0.70
46:DL:252:LYS:O	46:DL:256:ASN:HB2	1.92	0.70
45:DM:271:SER:OG	45:DM:301:MET:SD	2.49	0.70
45:FK:238:LEU:HA	45:FK:318:MET:HE1	1.72	0.70
46:HH:167:PHE:HD2	46:HH:233:MET:HE2	1.55	0.70
46:IF:273:LEU:H	46:IF:292:GLN:HE22	1.36	0.70
45:II:210:TYR:CE1	46:IJ:324:LYS:HD3	2.26	0.70
46:JL:396:HIS:HA	46:JL:399:THR:HG22	1.71	0.70
46:KJ:334:GLN:HE21	46:KJ:349:ILE:HG12	1.55	0.70
46:KL:49:VAL:HG11	46:KL:241:ARG:HG2	1.72	0.70
45:LM:140:SER:OG	47:LM:501:GTP:O2B	2.08	0.70
46:MH:209:ASP:OD1	46:MH:213:ARG:NH1	2.24	0.70
45:MI:11:GLN:NE2	46:MJ:245:GLN:O	2.23	0.70
46:MJ:11:GLN:NE2	46:MJ:12:CYS:SG	2.64	0.70
45:PM:210:TYR:CE2	46:PN:324:LYS:HG3	2.26	0.70
46:QH:135:ILE:HG13	46:QH:152:ILE:HD11	1.72	0.70
46:QJ:414:ASN:HB3	46:QJ:415:MET:HE2	1.73	0.70
46:RJ:344:TRP:CD1	45:RK:401:LYS:HZ1	2.08	0.70
45:RM:108:TYR:HA	45:RM:112:LYS:HE3	1.71	0.70
45:UK:298:PRO:HA	45:UK:301:MET:HE1	1.72	0.70
46:UL:187:LEU:O	46:UL:191:GLN:NE2	2.23	0.70
45:WC:114:ILE:HD12	45:WC:117:LEU:HD13	1.73	0.70
46:WD:319:GLY:HA2	46:WD:357:PRO:HD3	1.72	0.70
46:WJ:228:LEU:HB3	46:WJ:300:MET:HE1	1.73	0.70
46:WJ:293:MET:HE2	46:WJ:367:PHE:HB2	1.72	0.70
46:WN:66:MET:HE1	46:WN:147:MET:HG2	1.73	0.70
4:1D:218:GLN:HG2	4:1D:219:ASN:N	2.01	0.70
12:1T:72:PHE:HA	12:1T:108:PRO:HA	1.73	0.70
1:2A:101:ASN:ND2	34:5R:60:GLY:O	2.20	0.70
21:2L:745:ASN:HD21	21:2L:837:LYS:HE2	1.55	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BA:79:ARG:HH21	45:BA:92:LEU:HB2	1.55	0.70
46:DF:347:ASN:ND2	45:DG:180:ALA:O	2.25	0.70
46:EL:19:LYS:HG3	46:EL:226:ASN:HB3	1.71	0.70
45:FE:372:MET:HE2	45:FE:373:ARG:HH22	1.57	0.70
45:GC:288:VAL:HG11	45:GC:327:ASP:HB3	1.71	0.70
45:IE:89:PRO:HD3	46:JF:281:TYR:HD1	1.55	0.70
46:IF:222:TYR:O	46:IF:226:ASN:ND2	2.20	0.70
46:JJ:248:SER:HA	46:JJ:252:LYS:HD3	1.72	0.70
45:JM:216:ASN:ND2	45:JM:275:ILE:O	2.23	0.70
45:LG:406:HIS:HA	45:LG:409:VAL:HG12	1.73	0.70
45:MG:285:GLN:NE2	45:MG:290:GLU:OE1	2.25	0.70
46:RB:8:GLN:HE21	46:RB:65:LEU:HG	1.56	0.70
45:TI:60:LYS:HZ1	45:UI:282:TYR:HD1	1.39	0.70
46:UL:6:HIS:NE2	46:UL:8:GLN:OE1	2.22	0.70
46:VJ:207:LEU:HB3	46:VJ:225:LEU:HD22	1.73	0.70
14:0V:21:ARG:HE	14:0V:22:ARG:H	1.37	0.70
16:1B:62:THR:HA	45:LC:84:ARG:HH22	1.55	0.70
12:1T:109:CYS:HG	12:1T:203:TYR:HH	1.19	0.70
9:2N:1:MET:H3	45:IA:95:GLY:HA2	1.57	0.70
23:2O:453:ARG:HH12	46:UB:56:GLY:HA3	1.55	0.70
31:3I:260:MET:N	46:FJ:125:GLU:OE2	2.21	0.70
31:3I:267:THR:HG1	31:3I:270:SER:HG	1.36	0.70
25:3R:131:ASP:O	25:3R:156:LYS:NZ	2.24	0.70
34:5R:306:ARG:NH2	34:5R:307:LYS:O	2.24	0.70
46:AF:302:ALA:HB3	46:AF:377:MET:HE1	1.72	0.70
45:BC:398:MET:HE2	46:BD:346:PRO:HD2	1.71	0.70
46:CF:293:MET:HE2	46:CF:294:PHE:CE1	2.27	0.70
46:DD:49:VAL:HG21	46:DD:241:ARG:HG2	1.73	0.70
46:DD:99:ASN:HD21	45:DC:258:ASN:HD21	1.37	0.70
46:EB:331:LEU:HD12	46:EB:334:GLN:HE21	1.56	0.70
45:JC:140:SER:OG	47:JC:501:GTP:O2B	2.10	0.70
45:JM:396:ASP:HA	45:JM:399:TYR:HB3	1.73	0.70
46:JN:344:TRP:HD1	46:JN:345:ILE:HG23	1.55	0.70
46:KL:61:PRO:HG2	46:KL:85:PHE:HD1	1.57	0.70
46:NL:218:THR:HG23	46:NL:219:THR:HG23	1.72	0.70
46:PH:273:LEU:H	46:PH:292:GLN:HE22	1.38	0.70
46:QF:139:LEU:HD22	46:QF:170:VAL:HG12	1.72	0.70
46:RJ:12:CYS:O	46:RJ:16:ILE:HG13	1.91	0.70
45:TI:27:GLU:HB3	45:TI:361:THR:HG21	1.72	0.70
45:VI:326:LYS:HG3	46:VL:208:TYR:CE2	2.26	0.70
45:WK:120:ASP:OD2	45:WK:121:ARG:NH2	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WK:244:PHE:HB2	45:WK:356:ASN:HD21	1.55	0.70
46:WL:288:GLU:HA	46:WL:291:GLN:HG3	1.73	0.70
12:0T:27:ARG:NH1	12:0T:33:LYS:O	2.25	0.70
1:3A:124:LEU:HB3	46:AN:279:GLN:HE22	1.53	0.70
46:BN:87:PRO:HA	46:BN:90:PHE:HD2	1.57	0.70
45:DK:422:ARG:HH12	45:DK:426:ALA:HB2	1.56	0.70
45:GE:60:LYS:NZ	45:GE:85:GLN:O	2.22	0.70
46:JF:190:HIS:HD2	46:JF:411:ALA:HA	1.56	0.70
45:ME:282:TYR:OH	45:ME:370:LYS:O	2.08	0.70
46:NB:119:VAL:HA	46:NB:122:LYS:HE2	1.74	0.70
46:NB:229:VAL:O	46:NB:233:MET:HG3	1.91	0.70
45:NE:221:ARG:NH1	46:NF:325:GLU:OE2	2.25	0.70
45:NM:371:VAL:HG12	45:NM:373:ARG:H	1.56	0.70
45:PA:11:GLN:O	45:PA:15:GLN:NE2	2.24	0.70
46:QB:51:TYR:HB3	46:QB:59:TYR:HB3	1.73	0.70
46:SD:173:PRO:HG2	46:SD:380:ARG:HE	1.56	0.70
45:SM:202:VAL:HG12	45:SM:268:MET:HB2	1.74	0.70
46:UN:10:GLY:O	46:UN:14:ASN:ND2	2.24	0.70
45:VE:145:THR:OG1	47:VE:501:GTP:O1B	2.09	0.70
46:VH:135:ILE:HG13	46:VH:152:ILE:HD11	1.72	0.70
46:VN:73:MET:HA	46:VN:76:VAL:HG12	1.74	0.70
12:0T:268:LEU:O	12:0T:272:SER:HB2	1.92	0.70
4:1D:6:ARG:NH1	46:CF:45:GLU:OE1	2.25	0.70
20:1K:15:ASN:ND2	45:NC:357:TYR:O	2.25	0.70
13:1U:238:SER:OG	13:1U:258:ASP:OD2	2.10	0.70
20:2K:212:ARG:NH2	45:GM:278:ALA:O	2.25	0.70
12:3T:277:THR:OG1	13:3U:352:ARG:NH2	2.25	0.70
33:4F:158:GLY:O	46:IN:320:ARG:NH2	2.25	0.70
46:BH:73:MET:HA	46:BH:76:VAL:HG12	1.73	0.70
46:CD:285:THR:N	46:CD:288:GLU:OE2	2.19	0.70
46:EF:166:THR:OG1	46:EF:199:CYS:SG	2.47	0.70
46:EH:330:MET:HE2	46:EH:349:ILE:HG21	1.74	0.70
46:EL:350:LYS:NZ	46:EL:352:SER:OG	2.24	0.70
46:FB:133:PHE:HB2	46:FB:164:MET:HE1	1.73	0.70
46:FF:67:ASP:O	46:FF:92:PHE:HA	1.89	0.70
46:GF:49:VAL:HG11	46:GF:241:ARG:HG2	1.74	0.70
45:HK:226:ASN:ND2	45:HK:367:ASP:OD2	2.25	0.70
45:JC:269:LEU:HD22	45:JC:384:ILE:HD11	1.73	0.70
45:MA:402:ARG:NH2	45:MA:415:GLU:OE2	2.23	0.70
45:MK:11:GLN:NE2	46:ML:245:GLN:O	2.23	0.70
47:OG:501:GTP:O1G	46:OH:252:LYS:NZ	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PD:50:TYR:HE2	46:PD:241:ARG:HD3	1.56	0.70
46:PH:226:ASN:HD21	49:PH:501:GDP:HN1	1.37	0.70
45:QG:76:ASP:OD1	45:QG:79:ARG:NH2	2.25	0.70
46:QL:54:ALA:HA	46:RL:283:ALA:HB2	1.74	0.70
46:SD:67:ASP:O	46:SD:92:PHE:HA	1.91	0.70
46:TD:321:MET:HB2	45:TE:221:ARG:NH2	2.07	0.70
46:UH:3:GLU:HG3	46:UH:49:VAL:HA	1.74	0.70
45:VK:261:PRO:HD2	45:VK:262:TYR:H	1.55	0.70
45:WA:55:GLU:HG3	45:WA:57:GLY:H	1.56	0.70
46:WB:77:ARG:HH21	46:WB:83:GLN:HE22	1.38	0.70
45:WC:319:TYR:HB3	45:WC:323:VAL:HG11	1.74	0.70
13:0U:583:ILE:HG12	13:0U:590:VAL:HG22	1.73	0.70
16:1B:119:GLN:O	16:1B:123:GLN:NE2	2.25	0.70
5:1E:28:ALA:O	5:1E:32:ARG:HG2	1.92	0.70
19:1J:126:ASN:O	45:HE:84:ARG:NH2	2.24	0.70
20:1K:43:LYS:HD2	46:KF:212:PHE:CZ	2.26	0.70
20:1K:203:TYR:HA	20:1K:206:LYS:HD2	1.72	0.70
11:1S:121:CYS:SG	46:AF:426:GLN:NE2	2.65	0.70
30:2H:209:ARG:NH1	30:2H:211:HIS:O	2.25	0.70
40:6G:93:LYS:NZ	45:UK:113:GLU:OE2	2.24	0.70
45:AC:210:TYR:OH	46:AD:323:THR:OG1	2.06	0.70
45:AM:338:LYS:HZ2	45:AM:340:THR:H	1.38	0.70
46:CB:386:THR:OG1	46:CB:390:ARG:NH1	2.24	0.70
46:CD:324:LYS:HG2	45:CE:222:PRO:HG2	1.73	0.70
46:CH:273:LEU:H	46:CH:292:GLN:HE22	1.40	0.70
45:EK:64:ARG:NH1	45:EK:129:CYS:SG	2.65	0.70
45:EK:76:ASP:OD1	45:EK:79:ARG:NH2	2.25	0.70
46:FN:282:ARG:NH2	46:FN:292:GLN:OE1	2.24	0.70
45:HA:268:MET:HE2	45:HA:378:ILE:HG22	1.73	0.70
46:IF:282:ARG:NE	46:IF:288:GLU:OE2	2.25	0.70
46:KD:350:LYS:NZ	46:KD:352:SER:OG	2.23	0.70
46:KN:114:ASP:OD1	46:KN:115:SER:N	2.25	0.70
46:LL:371:SER:O	46:LL:422:TYR:OH	2.10	0.70
46:ON:66:MET:HE1	46:ON:147:MET:HG3	1.73	0.70
46:PL:171:PRO:O	46:PL:380:ARG:NH2	2.25	0.70
45:QG:258:ASN:HB3	45:QG:352:LYS:HE2	1.73	0.70
46:RN:100:ASN:ND2	46:RN:401:GLU:OE1	2.25	0.70
46:RN:207:LEU:HD13	46:RN:225:LEU:HB3	1.74	0.70
45:UE:318:MET:HE1	45:UE:320:ARG:HD2	1.74	0.70
46:UH:130:LEU:O	46:UH:162:ARG:NH1	2.23	0.70
45:VK:339:ARG:O	45:VK:342:GLN:NE2	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CE:288:VAL:HG21	45:CE:327:ASP:HB3	1.73	0.70
20:1K:212:ARG:HH21	45:GA:370:LYS:HG3	1.56	0.70
12:1T:128:GLU:HA	45:AC:339:ARG:HH22	1.55	0.70
4:2D:48:ILE:HD11	4:2D:65:ILE:HD11	1.74	0.70
25:2R:289:ASN:ND2	46:DH:219:THR:OG1	2.24	0.70
15:2X:50:GLU:HB3	15:2X:54:ARG:HH12	1.56	0.70
10:4Q:22:LEU:HB2	10:4Q:25:TRP:HB2	1.74	0.70
34:4R:33:LEU:H	45:LC:1:MET:HE1	1.56	0.70
40:6G:281:THR:HG22	40:6G:284:LYS:HZ3	1.55	0.70
34:7R:12:LEU:C	46:LB:227:HIS:HE1	1.99	0.70
46:BJ:178:THR:HB	46:BJ:181:GLU:HG3	1.73	0.70
45:BK:352:LYS:HZ3	46:BN:178:THR:HA	1.55	0.70
46:CD:11:GLN:NE2	49:CD:501:GDP:O2A	2.24	0.70
46:DF:73:MET:HA	46:DF:76:VAL:HG12	1.74	0.70
45:IC:336:LYS:O	45:IC:339:ARG:NH2	2.24	0.70
45:KG:288:VAL:HA	45:KG:291:ILE:HG12	1.72	0.70
45:MG:298:PRO:HG3	45:MG:308:ARG:HE	1.56	0.70
46:ND:191:GLN:O	46:ND:195:ASN:ND2	2.22	0.70
46:QF:5:VAL:HG12	46:QF:62:ARG:HE	1.55	0.70
45:TE:278:ALA:HB2	45:TE:369:ALA:HB2	1.74	0.70
45:TG:69:ASP:HB3	45:TG:75:ILE:HD11	1.72	0.70
45:TI:69:ASP:HB3	45:TI:75:ILE:HD11	1.74	0.70
46:TL:258:ILE:HB	45:TM:407:TRP:HZ2	1.56	0.70
46:VB:237:THR:HG23	46:VB:241:ARG:HH21	1.56	0.70
19:1J:315:PHE:HB2	45:IK:282:TYR:HE2	1.56	0.70
21:1L:31:ILE:HD13	21:1L:81:ASP:HB3	1.73	0.70
9:1N:37:LYS:HD2	9:1N:42:LEU:HD11	1.74	0.70
22:2M:265:SER:OG	22:2M:307:GLU:OE1	2.05	0.70
46:AJ:281:TYR:HD1	46:MJ:86:ARG:HG3	1.57	0.70
46:CJ:73:MET:HA	46:CJ:76:VAL:HG12	1.74	0.70
45:DI:206:ASN:OD1	47:DI:501:GTP:N2	2.23	0.70
45:FI:88:HIS:NE2	45:GI:284:GLU:OE2	2.23	0.70
46:HD:135:ILE:HG13	46:HD:152:ILE:HD11	1.73	0.70
46:HD:213:ARG:HH22	46:HD:297:LYS:HG3	1.55	0.70
45:IG:164:LYS:O	45:IG:166:LYS:NZ	2.25	0.70
46:JN:290:THR:OG1	46:JN:329:GLN:NE2	2.25	0.70
45:NI:387:VAL:HG12	45:NI:390:ARG:HH22	1.56	0.70
45:OK:209:ILE:HB	45:OK:302:MET:HE1	1.73	0.70
45:PI:108:TYR:O	45:PI:112:LYS:NZ	2.25	0.70
45:RA:48:ALA:HB1	45:RA:243:ARG:HB2	1.72	0.70
46:RD:326:VAL:HG12	46:RD:330:MET:HE2	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SJ:67:ASP:O	46:SJ:92:PHE:HA	1.92	0.70
46:TJ:135:ILE:HG13	46:TJ:152:ILE:HD11	1.73	0.70
46:UF:213:ARG:NH2	46:UF:297:LYS:O	2.25	0.70
46:UJ:48:ASN:O	46:UJ:62:ARG:NH1	2.25	0.70
45:VC:292:THR:HG21	45:VC:331:SER:HB3	1.72	0.70
46:WN:49:VAL:HG21	46:WN:241:ARG:HG2	1.71	0.70
1:0A:148:ASN:HB3	1:0A:151:HIS:HB2	1.74	0.70
17:1F:159:THR:HG22	46:HL:333:VAL:HG22	1.73	0.70
5:2E:61:LYS:NZ	46:DJ:38:GLY:O	2.18	0.70
10:5Q:71:ILE:N	10:5Q:150:GLU:OE2	2.25	0.70
34:6R:386:PRO:HB3	46:EN:280:GLN:HG3	1.72	0.70
45:AK:31:GLN:OE1	45:AK:32:PRO:HD2	1.91	0.70
46:AN:58:ARG:NH1	46:BN:280:GLN:OE1	2.23	0.70
45:BM:222:PRO:HD2	46:BN:324:LYS:HE3	1.74	0.70
45:CM:207:GLU:HG2	45:CM:304:LYS:HD3	1.73	0.70
46:DN:139:LEU:HD22	46:DN:170:VAL:HG12	1.74	0.70
45:EK:360:PRO:O	45:EK:370:LYS:NZ	2.25	0.70
46:EL:11:GLN:O	46:EL:15:GLN:HG2	1.92	0.70
46:FB:139:LEU:HD22	46:FB:170:VAL:HG12	1.73	0.70
46:FL:190:HIS:CD2	46:FL:411:ALA:HA	2.24	0.70
46:GD:135:ILE:HG13	46:GD:152:ILE:HD11	1.73	0.70
45:KI:407:TRP:CZ3	46:KJ:255:VAL:HA	2.26	0.70
45:KK:88:HIS:NE2	45:LK:284:GLU:OE2	2.24	0.70
45:MA:407:TRP:HZ2	46:MB:258:ILE:HD11	1.56	0.70
46:NL:260:PHE:HB2	46:NL:263:LEU:HD12	1.71	0.70
46:OH:309:ARG:NH2	46:OH:341:PHE:O	2.25	0.70
46:RD:167:PHE:HE2	46:RD:233:MET:HB2	1.57	0.70
45:RE:119:LEU:HD13	45:RE:122:ILE:HD11	1.73	0.70
45:UM:298:PRO:HA	45:UM:301:MET:HE1	1.73	0.70
45:VM:108:TYR:HA	45:VM:112:LYS:HE3	1.74	0.70
45:WA:349:THR:HG1	46:WD:176:SER:HG	1.34	0.70
46:WF:8:GLN:NE2	46:WF:10:GLY:O	2.25	0.70
4:0D:13:GLY:O	45:CC:79:ARG:NH1	2.25	0.69
9:0N:88:ASN:ND2	9:0N:228:GLU:OE1	2.23	0.69
8:1H:284:ARG:HG3	8:1H:285:ARG:HD3	1.72	0.69
15:1X:50:GLU:CD	15:1X:54:ARG:HH12	1.99	0.69
27:2C:185:GLN:HA	27:2C:188:ILE:HD12	1.74	0.69
23:2O:142:GLU:HB3	23:2O:146:MET:HE1	1.74	0.69
14:2V:24:ARG:HH22	45:ME:433:GLU:HB2	1.56	0.69
40:6G:181:GLY:O	45:UG:123:ARG:NH1	2.25	0.69
40:6G:274:ASN:O	45:VA:215:ARG:NH2	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AC:175:PRO:HG2	45:AC:304:LYS:HD2	1.74	0.69
46:AJ:128:ASP:OD2	46:AJ:129:CYS:N	2.23	0.69
46:AL:396:HIS:HA	46:AL:399:THR:HG22	1.74	0.69
46:AN:178:THR:HB	46:AN:181:GLU:HG3	1.73	0.69
46:BB:20:PHE:O	46:BB:24:ILE:HD12	1.92	0.69
45:BI:221:ARG:NH1	46:BJ:325:GLU:OE1	2.24	0.69
46:CB:213:ARG:NH2	46:CB:297:LYS:O	2.24	0.69
45:EE:326:LYS:NZ	46:EF:208:TYR:HB3	2.06	0.69
46:EJ:215:LEU:HD22	46:EJ:217:LEU:HD23	1.73	0.69
45:JA:215:ARG:HH22	45:JA:300:ASN:HA	1.55	0.69
45:JC:88:HIS:NE2	45:KC:284:GLU:OE2	2.24	0.69
45:JG:55:GLU:HG3	45:JG:57:GLY:H	1.57	0.69
46:KF:334:GLN:HE22	46:KF:348:ASN:H	1.40	0.69
46:KJ:209:ASP:OD1	46:KJ:213:ARG:NH1	2.25	0.69
45:LC:288:VAL:HA	45:LC:291:ILE:HG12	1.74	0.69
46:MB:262:ARG:HH12	46:MB:421:GLU:HG2	1.57	0.69
46:NF:67:ASP:O	46:NF:92:PHE:HA	1.91	0.69
45:NI:71:GLU:OE1	46:NJ:2:ARG:NH2	2.25	0.69
46:NL:378:PHE:HD1	46:NL:415:MET:HE1	1.56	0.69
45:PI:298:PRO:HA	45:PI:301:MET:HE3	1.74	0.69
46:TF:107:THR:OG1	46:TF:108:GLU:OE1	2.09	0.69
46:TJ:207:LEU:HB3	46:TJ:225:LEU:HD22	1.74	0.69
46:UB:135:ILE:HG13	46:UB:152:ILE:HD11	1.74	0.69
45:UC:170:THR:O	45:UC:204:LEU:HB2	1.91	0.69
46:UF:68:LEU:HD13	46:UF:93:GLY:HA3	1.73	0.69
46:VB:45:GLU:HG3	46:VB:46:ARG:HG2	1.73	0.69
46:VF:222:TYR:O	46:VF:226:ASN:ND2	2.18	0.69
46:WD:68:LEU:HB3	46:WD:96:GLY:HA2	1.74	0.69
46:WF:3:GLU:OE2	46:WF:48:ASN:ND2	2.25	0.69
46:WN:268:ILE:HG13	46:WN:300:MET:HG3	1.73	0.69
8:1H:274:LEU:HB3	46:HF:360:GLY:HA2	1.73	0.69
19:1J:345:VAL:HG12	46:IN:227:HIS:ND1	2.06	0.69
23:2O:156:ARG:NH2	45:VK:367:ASP:O	2.24	0.69
31:3I:267:THR:O	46:GJ:297:LYS:NZ	2.25	0.69
23:3O:427:LEU:HD23	45:UG:282:TYR:HB3	1.73	0.69
12:3T:103:VAL:O	12:3T:104:HIS:ND1	2.25	0.69
39:6F:68:TRP:HH2	46:JF:228:LEU:HG	1.56	0.69
45:BM:69:ASP:HB3	45:BM:75:ILE:HD11	1.74	0.69
45:CC:399:TYR:O	45:CC:402:ARG:NH1	2.24	0.69
46:GD:372:THR:HA	46:GD:422:TYR:HE2	1.57	0.69
46:GL:73:MET:HA	46:GL:76:VAL:HG12	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HK:69:ASP:OD1	45:HK:71:GLU:N	2.23	0.69
46:JB:222:TYR:O	46:JB:226:ASN:ND2	2.20	0.69
45:JG:348:PRO:HG2	46:JJ:384:GLN:HG3	1.72	0.69
46:JJ:200:MET:HG2	46:JJ:266:PHE:HB2	1.73	0.69
45:LG:387:VAL:HG12	45:LG:390:ARG:HH22	1.57	0.69
45:NG:377:MET:SD	45:NG:379:SER:OG	2.48	0.69
46:OL:83:GLN:O	46:PL:281:TYR:OH	2.09	0.69
45:PA:100:ALA:HB3	46:PB:251:ARG:HH21	1.58	0.69
46:PN:188:SER:O	46:PN:191:GLN:NE2	2.25	0.69
46:QH:273:LEU:H	46:QH:292:GLN:HE22	1.40	0.69
46:TL:96:GLY:O	46:TL:103:LYS:NZ	2.25	0.69
45:VM:221:ARG:NH1	46:VN:325:GLU:OE2	2.25	0.69
13:0U:94:LEU:HD21	13:0U:97:ARG:HG3	1.74	0.69
20:2K:291:GLN:NE2	46:FL:55:THR:HB	2.08	0.69
9:2N:48:GLU:HB3	9:2N:52:LYS:NZ	2.06	0.69
11:3S:156:ILE:HD11	11:3S:188:LEU:HA	1.74	0.69
36:5A:138:ARG:NH2	46:ND:357:PRO:O	2.25	0.69
10:5Q:30:ARG:HH22	46:AL:430:ALA:HB1	1.57	0.69
41:6H:248:LEU:O	46:FF:276:ARG:NH2	2.26	0.69
45:AE:211:ASP:OD2	45:AE:215:ARG:NH1	2.25	0.69
45:AK:221:ARG:NH1	46:AL:325:GLU:OE2	2.25	0.69
46:BH:318:ARG:HB3	46:BH:357:PRO:HA	1.75	0.69
45:CA:224:TYR:O	45:CA:228:ASN:ND2	2.25	0.69
45:DE:319:TYR:HB3	45:DE:323:VAL:HG11	1.74	0.69
46:HD:68:LEU:HB3	46:HD:96:GLY:HA2	1.74	0.69
46:HH:100:ASN:HD22	46:HH:103:LYS:HB2	1.57	0.69
45:KM:315:CYS:SG	45:KM:377:MET:HE1	2.32	0.69
46:LD:222:TYR:O	46:LD:226:ASN:ND2	2.22	0.69
46:LH:86:ARG:HD2	46:LH:87:PRO:HD2	1.75	0.69
46:LL:317:PHE:HB3	46:LL:321:MET:HE1	1.74	0.69
46:NH:178:THR:HG22	46:NH:180:VAL:H	1.57	0.69
45:RG:175:PRO:HG2	45:RG:304:LYS:HD2	1.72	0.69
45:VI:55:GLU:HG3	45:VI:57:GLY:H	1.57	0.69
46:WJ:1:MET:N	46:WJ:3:GLU:OE2	2.21	0.69
45:WK:56:THR:HG23	45:WK:58:ALA:H	1.56	0.69
3:1C:86:LYS:HE3	3:1C:86:LYS:HA	1.74	0.69
27:2C:143:SER:HB3	27:2C:146:ARG:HD3	1.74	0.69
1:3A:14:GLN:NE2	1:3A:18:SER:OG	2.22	0.69
30:3H:205:GLN:HE22	45:AG:82:THR:HB	1.57	0.69
25:3R:140:LYS:NZ	25:3R:148:GLN:O	2.25	0.69
25:3R:345:CYS:SG	25:3R:349:THR:OG1	2.50	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5F:87:LEU:HD13	37:5F:92:GLN:HB3	1.74	0.69
34:7R:268:GLU:HG3	46:DB:276:ARG:HH12	1.58	0.69
45:AA:226:ASN:ND2	45:AA:367:ASP:OD2	2.26	0.69
45:AE:76:ASP:OD1	45:AE:79:ARG:NH2	2.25	0.69
45:BC:229:ARG:HD3	45:BC:363:VAL:HG11	1.74	0.69
45:BE:292:THR:HG21	45:BE:331:SER:HB3	1.72	0.69
45:BK:200:VAL:HG13	45:BK:268:MET:HE1	1.74	0.69
46:CB:319:GLY:HA2	46:CB:357:PRO:HG3	1.74	0.69
46:CD:73:MET:HA	46:CD:76:VAL:HG12	1.74	0.69
46:DB:86:ARG:HD2	46:EB:281:TYR:HB2	1.74	0.69
46:DF:326:VAL:O	46:DF:330:MET:HG2	1.91	0.69
45:FM:222:PRO:HD2	46:FN:324:LYS:HD3	1.74	0.69
46:IL:22:GLU:HG2	46:IL:81:PHE:HD1	1.57	0.69
45:JC:210:TYR:HH	46:JD:323:THR:HG1	1.39	0.69
46:LB:382:ALA:HB2	46:LB:415:MET:HE1	1.73	0.69
46:OD:139:LEU:HD12	46:OD:170:VAL:HG12	1.73	0.69
46:OJ:222:TYR:O	46:OJ:226:ASN:ND2	2.18	0.69
45:PE:256:GLN:OE1	46:PH:397:TRP:NE1	2.26	0.69
45:RM:140:SER:OG	47:RM:501:GTP:O2B	2.10	0.69
45:SA:104:ALA:HB2	45:SA:413:MET:HE2	1.73	0.69
46:SF:27:GLU:HA	46:SF:359:LYS:HD2	1.74	0.69
46:SJ:258:ILE:HD11	45:SK:407:TRP:HZ2	1.57	0.69
45:SK:75:ILE:HD11	45:SK:92:LEU:HB3	1.73	0.69
46:TD:242:PHE:HB3	46:TD:356:ILE:HD13	1.75	0.69
46:UB:273:LEU:O	46:UB:292:GLN:NE2	2.25	0.69
46:VN:318:ARG:HG2	46:VN:357:PRO:HA	1.73	0.69
45:WC:108:TYR:O	45:WC:112:LYS:NZ	2.23	0.69
45:WE:188:ILE:HD12	45:WE:425:LEU:HD11	1.74	0.69
15:0X:35:ASP:OD1	15:0X:36:ALA:N	2.25	0.69
8:1H:302:GLN:CD	8:1H:306:ARG:HH21	2.00	0.69
20:1K:48:TRP:NE1	46:JF:74:ASP:OD1	2.24	0.69
23:1O:268:ASN:N	45:UA:282:TYR:CD2	2.61	0.69
14:1V:186:HIS:HD2	12:3T:89:ILE:HD13	1.58	0.69
26:1W:221:LYS:HB3	26:1W:225:ARG:HH21	1.58	0.69
9:2N:167:ARG:NH2	46:KB:224:ASP:OD1	2.24	0.69
12:2T:27:ARG:HH21	12:2T:158:TYR:HB2	1.57	0.69
31:3I:272:ARG:NH2	46:FJ:90:PHE:O	2.24	0.69
27:4C:276:GLN:O	27:4C:279:ARG:NH1	2.25	0.69
34:7R:146:LYS:NZ	46:AD:75:SER:O	2.25	0.69
46:BD:139:LEU:HD22	46:BD:170:VAL:HG12	1.74	0.69
45:BE:326:LYS:HZ2	46:BH:220:PRO:HD2	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BL:318:ARG:HB3	46:BL:357:PRO:HA	1.75	0.69
45:CC:288:VAL:HG11	45:CC:327:ASP:HB3	1.74	0.69
45:CK:89:PRO:HG2	45:DK:280:LYS:HD3	1.75	0.69
46:CL:345:ILE:HA	45:CM:398:MET:HE1	1.73	0.69
45:FI:292:THR:HG21	45:FI:331:SER:HB3	1.74	0.69
46:GD:67:ASP:O	46:GD:92:PHE:HA	1.92	0.69
45:GE:221:ARG:NH1	46:GF:322:SER:OG	2.25	0.69
45:HK:326:LYS:HZ2	46:HN:219:THR:HA	1.56	0.69
46:IH:45:GLU:OE1	46:IH:46:ARG:HG2	1.93	0.69
46:JF:67:ASP:O	46:JF:92:PHE:HA	1.92	0.69
45:KG:317:MET:HE1	45:KG:377:MET:HG3	1.74	0.69
46:MD:248:SER:HA	46:MD:252:LYS:HD3	1.75	0.69
46:MH:73:MET:HA	46:MH:76:VAL:HG12	1.74	0.69
46:MN:262:ARG:NH2	46:MN:414:ASN:OD1	2.26	0.69
45:OI:224:TYR:HB2	46:OJ:245:GLN:HE21	1.56	0.69
46:PN:87:PRO:HA	46:PN:90:PHE:HD2	1.56	0.69
46:PN:237:THR:HG23	46:PN:241:ARG:HH21	1.57	0.69
46:QH:218:THR:HG23	46:QH:219:THR:HG23	1.74	0.69
46:QH:371:SER:O	46:QH:422:TYR:OH	2.10	0.69
46:QN:139:LEU:HD22	46:QN:170:VAL:HG12	1.74	0.69
45:RE:65:ALA:O	45:RE:91:GLN:NE2	2.25	0.69
45:VG:22:GLU:OE2	45:VG:83:TYR:OH	2.11	0.69
45:WA:70:LEU:O	46:WB:2:ARG:NH2	2.25	0.69
11:0S:278:ARG:HH21	46:WB:118:ASP:HB2	1.56	0.69
21:1L:115:ALA:O	21:1L:116:LYS:HG2	1.93	0.69
21:1L:287:ARG:NE	21:1L:345:CYS:SG	2.59	0.69
24:1P:265:ARG:HA	24:1P:268:LYS:HD2	1.74	0.69
23:2O:156:ARG:HD2	45:VK:278:ALA:HB3	1.72	0.69
37:5H:71:PRO:HB3	37:5H:104:MET:HB2	1.74	0.69
46:AD:301:CYS:HB3	46:AD:377:MET:HE1	1.73	0.69
46:AJ:86:ARG:NE	46:AJ:86:ARG:HA	2.07	0.69
46:CB:376:GLU:HA	46:CB:379:LYS:HZ3	1.56	0.69
45:DK:140:SER:OG	47:DK:501:GTP:O2B	2.10	0.69
45:FI:98:ASP:O	45:FI:105:ARG:NH2	2.25	0.69
46:GJ:178:THR:HB	46:GJ:181:GLU:HG3	1.73	0.69
45:IE:89:PRO:HD3	46:JF:281:TYR:CD1	2.27	0.69
46:KH:31:ASP:OD1	46:KH:35:THR:N	2.25	0.69
46:LD:86:ARG:HH12	46:MD:281:TYR:HB3	1.56	0.69
46:NB:97:ALA:HA	46:NB:103:LYS:HD2	1.75	0.69
46:SF:309:ARG:NH2	46:SF:426:GLN:O	2.26	0.69
46:TB:251:ARG:NE	45:TC:105:ARG:HH22	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UD:273:LEU:H	46:UD:292:GLN:HE22	1.38	0.69
45:UI:11:GLN:NE2	47:UI:501:GTP:O3A	2.26	0.69
46:UL:70:PRO:HB3	46:UL:73:MET:HE2	1.74	0.69
46:UN:222:TYR:O	46:UN:226:ASN:ND2	2.24	0.69
45:WA:180:ALA:HB3	45:WA:183:GLU:HB2	1.73	0.69
46:WB:73:MET:HA	46:WB:76:VAL:HG12	1.75	0.69
46:WD:73:MET:HA	46:WD:76:VAL:HG12	1.75	0.69
45:WG:318:MET:HE1	45:WG:320:ARG:HD2	1.74	0.69
46:WL:375:GLN:HE21	46:WL:422:TYR:HD2	1.39	0.69
7:0G:114:LYS:HD2	7:0G:115:PRO:HD2	1.73	0.69
10:0Q:182:LYS:NZ	10:0Q:183:LEU:O	2.24	0.69
9:1N:395:ARG:NH1	9:1N:471:SER:OG	2.26	0.69
23:1O:268:ASN:HB3	45:UA:282:TYR:HB2	1.74	0.69
23:2O:361:LEU:HA	23:2O:364:LYS:HZ3	1.57	0.69
24:2P:480:GLU:OE2	24:2P:484:ARG:NH2	2.25	0.69
36:5A:80:ASN:O	36:5A:84:TYR:HB2	1.93	0.69
36:5B:125:GLN:O	46:NH:276:ARG:NH1	2.26	0.69
37:5F:52:GLY:N	37:5F:55:GLU:OE2	2.25	0.69
45:AM:371:VAL:HG12	45:AM:373:ARG:H	1.58	0.69
45:BC:72:PRO:HD2	46:BD:2:ARG:HH21	1.57	0.69
46:DL:350:LYS:HZ1	45:DM:181:VAL:H	1.41	0.69
46:DL:350:LYS:HZ1	45:DM:181:VAL:N	1.91	0.69
46:EB:65:LEU:HB2	46:EB:90:PHE:HD1	1.55	0.69
45:EI:9:VAL:HG12	45:EI:68:LEU:HB2	1.73	0.69
45:EK:31:GLN:HE21	45:EK:37:PRO:HB3	1.58	0.69
46:HD:164:MET:HB2	46:HD:197:ASP:H	1.58	0.69
46:HD:274:THR:HB	46:HD:282:ARG:HH21	1.58	0.69
46:IN:73:MET:HA	46:IN:76:VAL:HG12	1.75	0.69
45:JA:212:ILE:HG12	45:JA:215:ARG:HH21	1.58	0.69
46:KJ:173:PRO:HG2	46:KJ:380:ARG:HD3	1.75	0.69
45:LA:222:PRO:HD2	46:LB:324:LYS:HZ2	1.56	0.69
45:MG:205:ASP:OD2	45:MG:206:ASN:N	2.26	0.69
45:OC:89:PRO:HD3	45:PC:280:LYS:HE3	1.73	0.69
46:PH:86:ARG:HH22	46:QF:282:ARG:HA	1.57	0.69
46:PJ:6:HIS:O	46:PJ:63:ALA:HA	1.91	0.69
46:QH:68:LEU:HD12	46:QH:93:GLY:HA3	1.75	0.69
46:QJ:260:PHE:HB2	46:QJ:263:LEU:HD13	1.75	0.69
46:RB:371:SER:O	46:RB:422:TYR:OH	2.10	0.69
46:TD:67:ASP:O	46:TD:92:PHE:HA	1.92	0.69
46:TJ:66:MET:HE1	46:TJ:147:MET:HG3	1.74	0.69
45:UG:288:VAL:HG21	45:UG:327:ASP:HB3	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:WB:64:ILE:HD11	46:WB:123:GLU:HG3	1.73	0.69
45:WE:352:LYS:NZ	46:WH:178:THR:HA	2.07	0.69
46:WH:209:ASP:HB3	46:WH:213:ARG:NH2	2.08	0.69
45:WM:222:PRO:HD2	46:WN:324:LYS:HE3	1.73	0.69
10:0Q:52:THR:O	10:0Q:57:ASN:ND2	2.25	0.69
13:1U:115:GLN:HG3	13:1U:116:TYR:HD1	1.56	0.69
13:1U:483:ARG:O	13:1U:483:ARG:NH1	2.25	0.69
16:2B:201:TYR:O	16:2B:202:VAL:HG13	1.92	0.69
4:2D:118:ASP:H	4:2D:121:LYS:NZ	1.91	0.69
4:2D:205:ILE:O	4:2D:209:LYS:HG2	1.93	0.69
31:2I:44:PRO:HD2	46:GH:329:GLN:HE22	1.57	0.69
24:2P:422:HIS:CD2	24:2P:426:ARG:HH12	2.11	0.69
25:2R:266:GLU:HG2	25:2R:267:ILE:HD12	1.74	0.69
27:3C:166:THR:HG23	27:3C:169:GLU:H	1.57	0.69
30:3H:171:LEU:HD11	30:3H:176:LYS:HD3	1.73	0.69
11:3S:136:ARG:HH22	10:5Q:72:LYS:NZ	1.90	0.69
13:3U:226:ILE:HG23	45:WK:43:GLY:HA2	1.75	0.69
10:4Q:102:ARG:HE	45:AI:430:LYS:HZ1	1.41	0.69
40:6G:144:LYS:HD3	45:VG:214:ARG:HH22	1.57	0.69
40:6G:210:ARG:HA	46:VF:297:LYS:HZ1	1.58	0.69
46:AF:285:THR:OG1	46:AF:288:GLU:OE1	2.11	0.69
45:BC:175:PRO:HG2	45:BC:304:LYS:HD2	1.75	0.69
46:BN:403:MET:HB3	46:BN:407:GLU:OE2	1.92	0.69
45:CC:145:THR:OG1	47:CC:501:GTP:O1B	2.10	0.69
46:CH:45:GLU:OE2	46:CH:46:ARG:NH1	2.25	0.69
45:DK:288:VAL:HG11	45:DK:327:ASP:HB3	1.73	0.69
46:EF:164:MET:HB2	46:EF:197:ASP:H	1.57	0.69
45:EI:120:ASP:OD2	45:EI:123:ARG:NH2	2.26	0.69
46:EJ:73:MET:HA	46:EJ:76:VAL:HG12	1.75	0.69
46:EJ:325:GLU:HG2	45:EK:221:ARG:HG2	1.75	0.69
45:FE:407:TRP:HZ2	46:FF:258:ILE:HD11	1.58	0.69
46:FJ:66:MET:HE1	46:FJ:151:LEU:HD22	1.75	0.69
46:FJ:208:TYR:HE2	46:FJ:225:LEU:HD11	1.58	0.69
46:GD:203:ASP:OD2	46:GD:302:ALA:N	2.20	0.69
46:GH:299:MET:HE1	46:GH:367:PHE:HE2	1.58	0.69
46:GL:362:LYS:HG3	46:GL:363:MET:SD	2.33	0.69
45:HK:62:VAL:HG11	45:IK:283:HIS:HB3	1.75	0.69
46:LL:170:VAL:HG11	46:LL:377:MET:HE1	1.73	0.69
45:MI:9:VAL:HG12	45:MI:68:LEU:HB2	1.75	0.69
45:MM:9:VAL:HG12	45:MM:68:LEU:HB2	1.74	0.69
45:OK:326:LYS:HE2	46:ON:220:PRO:HB2	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PE:27:GLU:HB3	45:PE:361:THR:HG21	1.73	0.69
46:QB:267:MET:HE3	46:QB:299:MET:HE2	1.73	0.69
46:QL:87:PRO:HA	46:QL:90:PHE:HD2	1.57	0.69
46:QL:260:PHE:HB2	46:QL:263:LEU:HD13	1.75	0.69
46:RB:2:ARG:NH1	45:RC:72:PRO:HD2	2.07	0.69
46:RF:420:SER:HA	46:RF:423:GLN:HE21	1.56	0.69
46:RN:66:MET:HE1	46:RN:151:LEU:HD13	1.75	0.69
46:RN:87:PRO:HA	46:RN:90:PHE:HD2	1.58	0.69
45:SA:254:GLU:HG2	46:SB:98:GLY:HA2	1.75	0.69
46:SJ:121:ARG:HH12	46:TJ:336:LYS:HZ3	1.38	0.69
46:SL:289:LEU:HD13	46:SL:365:VAL:HG23	1.73	0.69
45:SM:157:LEU:HD11	45:SM:166:LYS:HD3	1.74	0.69
46:TB:46:ARG:HH22	45:TC:73:THR:HG23	1.56	0.69
46:TF:117:LEU:HD21	46:TF:154:LYS:HE2	1.73	0.69
45:TK:88:HIS:NE2	45:UK:284:GLU:OE2	2.26	0.69
45:VA:90:GLU:HG3	45:WA:280:LYS:HZ3	1.58	0.69
45:VA:244:PHE:HB2	45:VA:356:ASN:HD21	1.57	0.69
46:VB:207:LEU:HD22	46:VB:228:LEU:HD11	1.74	0.69
45:VG:221:ARG:NH2	46:VH:325:GLU:HG2	2.08	0.69
46:VN:67:ASP:O	46:VN:92:PHE:HA	1.92	0.69
45:WM:105:ARG:HH21	45:WM:109:THR:HG21	1.57	0.69
16:1B:337:SER:O	16:1B:341:GLN:NE2	2.26	0.69
11:1S:267:LYS:O	10:2Q:35:LYS:NZ	2.26	0.69
24:2P:391:ARG:O	24:2P:395:GLN:NE2	2.26	0.69
26:2W:226:ASP:OD1	26:2W:229:LYS:NZ	2.26	0.69
37:5F:154:TYR:CE1	46:NH:35:THR:HG23	2.26	0.69
46:AN:377:MET:SD	46:AN:380:ARG:NH2	2.66	0.69
46:CB:129:CYS:HB2	45:CC:96:LYS:HE2	1.75	0.69
46:CN:73:MET:HA	46:CN:76:VAL:HG12	1.75	0.69
45:GG:387:VAL:HG12	45:GG:390:ARG:HH22	1.58	0.69
45:GI:226:ASN:ND2	45:GI:367:ASP:OD2	2.26	0.69
46:JN:376:GLU:HB3	46:JN:380:ARG:NH1	2.08	0.69
46:NF:287:PRO:O	46:NF:291:GLN:NE2	2.25	0.69
45:PC:1:MET:SD	46:PF:94:GLN:NE2	2.66	0.69
46:QD:54:ALA:HA	46:RD:283:ALA:HB2	1.73	0.69
46:RJ:67:ASP:O	46:RJ:92:PHE:HA	1.93	0.69
46:SD:166:THR:OG1	46:SD:199:CYS:SG	2.48	0.69
45:SG:214:ARG:NH2	45:SG:219:ILE:O	2.26	0.69
46:SJ:200:MET:HE2	46:SJ:268:ILE:HG12	1.73	0.69
46:TJ:68:LEU:HB3	46:TJ:96:GLY:HA2	1.75	0.69
46:UD:48:ASN:O	46:UD:62:ARG:NH1	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UG:211:ASP:OD2	45:UG:215:ARG:NH1	2.25	0.69
45:UI:145:THR:OG1	47:UI:501:GTP:O1B	2.10	0.69
46:UN:237:THR:HG23	46:UN:241:ARG:HH21	1.57	0.69
45:WA:116:ASP:OD1	45:WA:117:LEU:N	2.26	0.69
19:1J:122:ARG:NH2	45:IE:218:ASP:O	2.26	0.69
21:1L:821:LYS:HG2	21:1L:832:PRO:HB3	1.74	0.69
23:1O:269:GLN:N	45:UA:282:TYR:HD2	1.85	0.69
22:2M:282:GLU:N	22:2M:282:GLU:OE1	2.26	0.69
13:2U:11:ILE:HB	13:2U:599:ILE:HB	1.73	0.69
13:2U:453:TRP:HE1	13:2U:469:ALA:HB2	1.57	0.69
1:3A:101:ASN:ND2	34:6R:60:GLY:O	2.26	0.69
1:3A:108:ARG:HH12	25:3R:38:HIS:CG	2.11	0.69
10:5Q:93:VAL:HA	10:5Q:151:THR:HA	1.74	0.69
45:CI:260:VAL:HG23	46:CJ:397:TRP:HE1	1.57	0.69
46:CJ:324:LYS:HZ1	45:CK:221:ARG:HA	1.57	0.69
46:CN:207:LEU:HB3	46:CN:225:LEU:HD22	1.72	0.69
45:DI:188:ILE:HD12	45:DI:425:LEU:HD11	1.75	0.69
45:EE:317:MET:HE1	45:EE:319:TYR:CZ	2.28	0.69
46:FF:229:VAL:HG12	46:FF:233:MET:HE2	1.74	0.69
46:HF:132:GLY:HA3	46:HF:163:ILE:HG13	1.74	0.69
46:HL:318:ARG:HB3	46:HL:357:PRO:HA	1.73	0.69
45:JA:406:HIS:HA	45:JA:409:VAL:HG12	1.74	0.69
45:JM:47:ASP:OD1	45:JM:50:ASN:ND2	2.26	0.69
46:KF:313:ALA:HB3	46:KF:349:ILE:HG12	1.75	0.69
46:LD:322:SER:OG	46:LD:325:GLU:OE1	2.11	0.69
46:LH:309:ARG:NH1	46:LH:426:GLN:O	2.26	0.69
46:MD:230:SER:HA	46:MD:233:MET:HE3	1.75	0.69
45:NA:88:HIS:ND1	45:NA:91:GLN:OE1	2.26	0.69
46:SJ:293:MET:HE2	46:SJ:367:PHE:HB3	1.75	0.69
45:SM:157:LEU:HA	45:SM:160:ASP:HB2	1.75	0.69
46:TJ:258:ILE:HB	45:TK:407:TRP:CH2	2.28	0.69
46:UD:236:VAL:HG13	46:UD:237:THR:HG23	1.75	0.69
46:UJ:301:CYS:HB3	46:UJ:377:MET:HE1	1.73	0.69
4:1D:131:GLN:HA	4:1D:134:LYS:HD2	1.75	0.68
7:1G:177:MET:O	7:1G:178:LYS:HG2	1.93	0.68
21:1L:179:THR:HA	21:1L:184:LEU:HD21	1.75	0.68
13:1U:175:ILE:HG22	13:1U:182:VAL:HG12	1.76	0.68
14:1V:96:ASN:HD21	46:LJ:262:ARG:HB2	1.57	0.68
41:6H:167:LYS:HZ2	46:FB:362:LYS:H	1.40	0.68
41:6H:173:SER:HB3	41:6H:176:ASN:OD1	1.93	0.68
46:BL:67:ASP:O	46:BL:92:PHE:HA	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CL:68:LEU:HB3	46:CL:96:GLY:HA2	1.74	0.68
46:DD:208:TYR:HB3	45:DC:326:LYS:NZ	2.09	0.68
45:DK:326:LYS:HE2	46:DL:220:PRO:HD2	1.75	0.68
46:ID:268:ILE:HG13	46:ID:300:MET:HE3	1.74	0.68
45:LC:406:HIS:HA	45:LC:409:VAL:HG12	1.75	0.68
46:MB:148:GLY:O	46:MB:152:ILE:HG12	1.92	0.68
45:MM:1:MET:SD	45:MM:2:ARG:NH2	2.66	0.68
45:NA:430:LYS:O	45:NA:433:GLU:HG3	1.93	0.68
45:NM:221:ARG:HA	46:NN:324:LYS:HZ1	1.58	0.68
45:OM:274:PRO:HD2	45:OM:374:ALA:HA	1.75	0.68
45:PI:244:PHE:HB2	45:PI:356:ASN:HD21	1.57	0.68
46:QF:200:MET:HG3	46:QF:266:PHE:HB2	1.75	0.68
46:RB:166:THR:OG1	46:RB:199:CYS:SG	2.51	0.68
45:RE:60:LYS:NZ	45:RE:85:GLN:O	2.25	0.68
46:RF:290:THR:HG21	46:RF:329:GLN:HG2	1.76	0.68
45:SE:254:GLU:OE2	46:SF:99:ASN:ND2	2.26	0.68
46:TL:269:GLY:HA2	46:TL:300:MET:HE3	1.75	0.68
46:WB:256:ASN:HB3	46:WB:350:LYS:HE3	1.76	0.68
45:WC:292:THR:HG21	45:WC:331:SER:HB3	1.75	0.68
5:0E:104:PHE:HB2	5:0E:164:TRP:CZ3	2.29	0.68
10:0Q:96:ASP:HB3	10:0Q:147:ASN:HB2	1.75	0.68
21:1L:283:ARG:NH2	46:BH:358:PRO:O	2.24	0.68
21:1L:621:THR:OG1	21:1L:624:GLU:OE1	2.10	0.68
24:1P:202:GLU:OE1	24:1P:206:ARG:NH2	2.25	0.68
14:1V:22:ARG:HH22	45:MI:422:ARG:HH12	1.42	0.68
14:1V:110:GLU:OE1	14:1V:112:ARG:NH1	2.27	0.68
1:2A:87:LYS:HE3	1:2A:87:LYS:HA	1.75	0.68
10:2Q:101:ARG:HD2	10:2Q:144:TYR:CE2	2.28	0.68
5:3E:121:ARG:O	34:6R:579:ASN:ND2	2.26	0.68
10:3Q:22:LEU:HB2	10:3Q:25:TRP:HB2	1.76	0.68
25:3R:92:TRP:CD2	45:AK:372:MET:HE2	2.28	0.68
13:3U:323:ILE:HD11	13:3U:338:THR:HB	1.74	0.68
27:4C:295:VAL:O	46:KN:320:ARG:NH2	2.27	0.68
40:6G:303:MET:HE3	46:VB:296:ALA:HB2	1.73	0.68
34:6R:469:LYS:H	46:EN:77:ARG:HH21	1.41	0.68
46:AN:229:VAL:HG12	46:AN:233:MET:HE1	1.74	0.68
46:BH:156:ARG:NH1	46:BH:195:ASN:O	2.27	0.68
46:CN:318:ARG:HB3	46:CN:357:PRO:HA	1.75	0.68
46:EJ:8:GLN:HE22	46:EJ:17:GLY:HA3	1.58	0.68
45:FA:336:LYS:O	45:FA:339:ARG:NH2	2.27	0.68
46:FB:230:SER:HA	46:FB:233:MET:HE2	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GK:326:LYS:HE2	46:GN:220:PRO:HD2	1.73	0.68
45:HG:210:TYR:HE1	45:HG:227:LEU:HD11	1.57	0.68
46:HH:135:ILE:HG13	46:HH:152:ILE:HD11	1.75	0.68
46:IN:222:TYR:O	46:IN:226:ASN:ND2	2.20	0.68
46:JJ:191:GLN:O	46:JJ:195:ASN:ND2	2.23	0.68
45:KG:284:GLU:HG3	45:KG:286:LEU:HG	1.75	0.68
46:MH:295:ASP:OD2	46:MH:297:LYS:NZ	2.25	0.68
46:MN:62:ARG:NH1	46:MN:127:CYS:SG	2.66	0.68
46:OD:200:MET:HE1	46:OD:266:PHE:HB2	1.74	0.68
45:OE:288:VAL:HG11	45:OE:327:ASP:HB3	1.74	0.68
45:PG:288:VAL:HG21	45:PG:327:ASP:HB3	1.73	0.68
46:QF:221:THR:HG23	46:QF:224:ASP:H	1.58	0.68
45:RG:2:ARG:NH2	46:RH:69:GLU:OE2	2.25	0.68
45:RK:259:LEU:HB3	45:RK:268:MET:HE1	1.74	0.68
46:SD:345:ILE:HD12	45:SE:398:MET:HE1	1.74	0.68
45:SG:256:GLN:HE22	46:SH:397:TRP:HE1	1.40	0.68
45:SK:284:GLU:HG2	45:SK:286:LEU:HD22	1.75	0.68
46:UB:86:ARG:NH2	46:UB:89:ASN:OD1	2.26	0.68
46:VB:49:VAL:O	46:VB:62:ARG:NH2	2.26	0.68
46:VN:3:GLU:HA	46:VN:49:VAL:HG13	1.74	0.68
45:WE:268:MET:HE2	45:WE:378:ILE:HG22	1.73	0.68
45:WE:398:MET:HE1	46:WF:345:ILE:HA	1.75	0.68
11:0S:278:ARG:NH2	46:WB:119:VAL:HG13	2.08	0.68
14:0V:96:ASN:HD21	46:LN:262:ARG:H	1.41	0.68
15:0X:83:MET:HE1	34:7R:47:GLU:HB2	1.76	0.68
10:1Q:38:THR:HG22	35:4S:208:GLN:NE2	2.07	0.68
26:1W:209:GLU:OE2	27:3C:27:LYS:NZ	2.26	0.68
27:2C:128:ALA:HB1	27:2C:150:VAL:HG12	1.74	0.68
5:2E:131:LYS:HZ1	5:2E:137:MET:HB2	1.58	0.68
31:2I:56:GLN:OE1	46:GH:213:ARG:NH1	2.27	0.68
9:2N:37:LYS:HG2	9:2N:42:LEU:HD11	1.75	0.68
23:2O:145:LYS:HB3	45:VK:372:MET:HE1	1.75	0.68
34:7R:593:ASP:OD2	34:7R:598:TRP:N	2.25	0.68
46:GH:235:GLY:HA3	46:GH:366:THR:HG21	1.73	0.68
46:GN:226:ASN:HD21	49:GN:502:GDP:HN1	1.41	0.68
46:GN:282:ARG:NH2	46:GN:292:GLN:OE1	2.25	0.68
46:HN:67:ASP:O	46:HN:92:PHE:HA	1.93	0.68
46:IJ:73:MET:HA	46:IJ:76:VAL:HG12	1.74	0.68
45:JE:27:GLU:OE1	45:JE:243:ARG:NH1	2.26	0.68
46:JJ:247:ASN:O	46:JJ:252:LYS:NZ	2.26	0.68
45:KI:317:MET:HG2	45:KI:377:MET:HG2	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KL:293:MET:HE3	46:KL:367:PHE:HD1	1.57	0.68
45:ME:259:LEU:HD21	45:ME:316:SER:HB2	1.75	0.68
46:ML:67:ASP:O	46:ML:92:PHE:HA	1.92	0.68
45:OE:55:GLU:HG3	45:OE:57:GLY:H	1.58	0.68
45:PC:221:ARG:NE	46:PD:322:SER:OG	2.18	0.68
45:PM:55:GLU:HG3	45:PM:57:GLY:H	1.59	0.68
45:QM:33:ASP:HA	45:QM:85:GLN:HE21	1.58	0.68
45:SG:33:ASP:HA	45:SG:85:GLN:HE21	1.59	0.68
46:TB:58:ARG:HH22	46:TB:84:LEU:HA	1.58	0.68
46:UF:213:ARG:HE	46:UF:297:LYS:HB3	1.58	0.68
45:UM:336:LYS:O	45:UM:339:ARG:NH2	2.26	0.68
45:VK:288:VAL:HG11	45:VK:327:ASP:HB3	1.75	0.68
46:VL:372:THR:HA	46:VL:422:TYR:HE2	1.57	0.68
45:WE:254:GLU:HG2	46:WH:98:GLY:HA2	1.74	0.68
2:0B:249:GLN:HA	2:0B:252:GLU:HG2	1.74	0.68
10:0Q:71:ILE:HG22	10:0Q:73:LEU:H	1.58	0.68
14:0V:71:PHE:HB2	46:MN:306:ARG:HH21	1.59	0.68
1:1A:26:PHE:HZ	15:1X:80:MET:HE3	1.58	0.68
16:1B:238:TYR:O	45:JC:84:ARG:NH1	2.26	0.68
23:1O:266:GLU:N	45:UA:282:TYR:CD2	2.61	0.68
10:1Q:68:THR:HG23	10:1Q:152:LEU:HD13	1.76	0.68
1:3A:135:SER:HB3	1:3A:138:TRP:CD1	2.28	0.68
23:3O:439:LYS:NZ	23:3O:440:GLN:OE1	2.27	0.68
30:4H:201:ASN:HA	30:4H:205:GLN:HG2	1.76	0.68
46:AL:318:ARG:HE	46:AL:358:PRO:HG3	1.59	0.68
45:BA:387:VAL:HA	45:BA:390:ARG:HD3	1.74	0.68
46:CL:173:PRO:HD2	46:CL:380:ARG:CZ	2.24	0.68
46:DB:86:ARG:HG2	46:EB:282:ARG:HH12	1.57	0.68
46:DB:246:LEU:HD11	45:DC:224:TYR:HE2	1.58	0.68
45:DE:326:LYS:NZ	46:DF:220:PRO:O	2.22	0.68
45:DK:120:ASP:OD2	45:DK:124:LYS:NZ	2.26	0.68
45:DK:188:ILE:HD12	45:DK:425:LEU:HD11	1.76	0.68
46:EN:178:THR:HB	46:EN:181:GLU:HG3	1.74	0.68
45:FC:7:ILE:HD11	45:FC:122:ILE:HD11	1.75	0.68
45:FC:221:ARG:NH1	46:FD:325:GLU:OE1	2.27	0.68
45:GA:33:ASP:OD1	45:GA:85:GLN:NE2	2.26	0.68
45:GA:101:ASN:HA	45:GA:144:GLY:H	1.57	0.68
46:HB:58:ARG:HH22	46:IB:281:TYR:HA	1.58	0.68
45:HE:101:ASN:HD22	46:HF:256:ASN:HD21	1.41	0.68
46:IL:68:LEU:HB3	46:IL:96:GLY:HA2	1.76	0.68
46:IL:372:THR:HA	46:IL:422:TYR:HE2	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KK:345:ASP:OD2	45:KK:346:TRP:N	2.27	0.68
46:MD:135:ILE:HG13	46:MD:152:ILE:HD11	1.74	0.68
45:MG:211:ASP:OD1	45:MG:214:ARG:NH2	2.26	0.68
46:MH:135:ILE:HG13	46:MH:152:ILE:HD11	1.76	0.68
46:NH:107:THR:OG1	46:NH:108:GLU:OE1	2.11	0.68
45:NI:352:LYS:HE3	46:NL:179:VAL:H	1.57	0.68
45:NM:31:GLN:NE2	45:NM:35:GLN:O	2.26	0.68
45:OC:72:PRO:HG2	46:OD:1:MET:HE1	1.75	0.68
46:PB:139:LEU:HD22	46:PB:170:VAL:HG12	1.75	0.68
46:QH:222:TYR:O	46:QH:226:ASN:ND2	2.23	0.68
45:SK:48:ALA:HB1	45:SK:243:ARG:HB2	1.75	0.68
45:SM:211:ASP:OD2	45:SM:215:ARG:NH1	2.27	0.68
45:TE:91:GLN:HG3	45:TE:121:ARG:HD2	1.75	0.68
45:UE:128:ASN:OD1	45:VC:285:GLN:NE2	2.26	0.68
45:UK:133:GLN:HB3	45:UK:252:ILE:HD11	1.74	0.68
46:VF:236:VAL:HG13	46:VF:237:THR:HG23	1.75	0.68
46:WB:370:ASN:OD1	46:WB:422:TYR:OH	2.11	0.68
46:WH:49:VAL:HG11	46:WH:241:ARG:HG2	1.76	0.68
8:1H:81:MET:SD	8:1H:83:GLN:NE2	2.67	0.68
8:1H:282:GLN:O	46:HF:276:ARG:NH2	2.26	0.68
27:3C:229:ASN:OD1	27:3C:230:ASP:N	2.20	0.68
32:3D:6:LYS:NZ	46:KD:36:TYR:O	2.25	0.68
45:BE:221:ARG:NH2	46:BF:321:MET:HA	2.09	0.68
45:EM:399:TYR:O	45:EM:402:ARG:NH1	2.26	0.68
45:FA:271:SER:OG	45:FA:301:MET:SD	2.52	0.68
45:GA:88:HIS:HA	45:HA:283:HIS:HE1	1.57	0.68
45:GA:224:TYR:HE2	46:GB:246:LEU:HD11	1.59	0.68
45:HE:398:MET:HE1	46:HF:345:ILE:HD12	1.75	0.68
45:HG:292:THR:HG21	45:HG:331:SER:HB3	1.74	0.68
45:HI:257:THR:HA	46:HL:397:TRP:HZ3	1.59	0.68
46:KL:156:ARG:HD2	46:KL:164:MET:HE3	1.75	0.68
45:NE:219:ILE:HG13	45:NE:221:ARG:H	1.59	0.68
45:PA:254:GLU:O	45:PA:258:ASN:ND2	2.27	0.68
45:PK:107:HIS:HA	45:PK:152:LEU:HD11	1.75	0.68
45:QK:287:SER:OG	45:QK:290:GLU:OE2	2.10	0.68
45:RI:392:ASP:HA	45:RI:422:ARG:HH12	1.58	0.68
45:SK:21:TRP:CZ3	45:SK:63:PRO:HB3	2.29	0.68
45:TE:285:GLN:NE2	45:TE:290:GLU:OE2	2.26	0.68
46:TF:156:ARG:NH1	46:TF:159:TYR:O	2.27	0.68
45:TK:115:VAL:HG11	45:TK:156:ARG:HH12	1.59	0.68
12:1T:68:GLY:HA2	12:1T:112:PRO:HA	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:1U:427:GLY:HA2	13:1U:448:HIS:O	1.91	0.68
10:3Q:74:PRO:HD2	10:3Q:169:ASP:HA	1.76	0.68
25:3R:115:LEU:O	25:3R:215:ASN:ND2	2.27	0.68
10:4Q:170:ARG:HB3	10:4Q:172:TYR:HE1	1.58	0.68
37:5H:19:LEU:HA	37:5H:22:LYS:HG2	1.75	0.68
34:6R:256:LEU:HD12	34:6R:356:THR:HG23	1.76	0.68
46:CD:2:ARG:NH2	45:CE:71:GLU:OE2	2.27	0.68
46:CF:86:ARG:HD3	46:DF:281:TYR:CD2	2.24	0.68
46:CF:112:LEU:HD23	46:CF:147:MET:HE1	1.75	0.68
45:CG:88:HIS:CD2	45:CG:91:GLN:HG3	2.27	0.68
45:CG:89:PRO:HG2	45:DG:280:LYS:HD3	1.75	0.68
45:DE:69:ASP:HB3	45:DE:75:ILE:HD11	1.75	0.68
45:DM:69:ASP:HB3	45:DM:75:ILE:HD11	1.76	0.68
45:FC:226:ASN:ND2	45:FC:367:ASP:OD2	2.27	0.68
46:FH:143:THR:O	46:FH:147:MET:HG2	1.93	0.68
45:GA:226:ASN:ND2	45:GA:367:ASP:OD2	2.26	0.68
46:IL:181:GLU:OE1	46:IL:182:PRO:HD3	1.93	0.68
46:IN:86:ARG:NH1	46:IN:89:ASN:OD1	2.24	0.68
46:LH:66:MET:HE3	46:LH:147:MET:HE2	1.75	0.68
46:NB:130:LEU:O	46:NB:162:ARG:NH1	2.27	0.68
46:ON:222:TYR:O	46:ON:226:ASN:ND2	2.22	0.68
46:PD:73:MET:HA	46:PD:76:VAL:HG12	1.76	0.68
45:PG:244:PHE:HB2	45:PG:356:ASN:HD21	1.59	0.68
45:RM:101:ASN:HA	45:RM:144:GLY:H	1.58	0.68
45:SC:101:ASN:HA	45:SC:144:GLY:H	1.58	0.68
46:SF:99:ASN:HA	46:SF:142:GLY:H	1.57	0.68
45:SG:203:MET:HE1	45:SG:267:PHE:HB3	1.76	0.68
45:TC:55:GLU:HG3	45:TC:57:GLY:H	1.59	0.68
45:UM:55:GLU:HG3	45:UM:57:GLY:H	1.58	0.68
6:0F:188:ILE:HG13	6:0F:189:VAL:H	1.59	0.68
3:1C:51:ASN:HA	45:EM:221:ARG:HH22	1.57	0.68
5:1E:121:ARG:O	34:4R:579:ASN:ND2	2.25	0.68
25:1R:266:GLU:HG2	25:1R:267:ILE:HD12	1.74	0.68
9:2N:75:MET:HB2	9:2N:275:VAL:HB	1.75	0.68
27:3C:229:ASN:CG	27:3C:230:ASP:H	2.01	0.68
13:3U:68:LYS:HG3	13:3U:69:TYR:H	1.58	0.68
37:5G:108:LYS:HG3	37:5G:110:ARG:HH12	1.58	0.68
37:5H:52:GLY:N	37:5H:55:GLU:OE2	2.25	0.68
46:AH:272:PRO:HG3	46:AH:284:LEU:HD11	1.74	0.68
45:AK:80:THR:O	45:AK:84:ARG:NH2	2.27	0.68
45:CA:3:GLU:O	45:CA:133:GLN:N	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CB:318:ARG:NH1	46:CB:358:PRO:HG3	2.08	0.68
45:DE:208:ALA:O	45:DE:212:ILE:HG12	1.94	0.68
45:GE:2:ARG:HB3	45:GE:133:GLN:HE22	1.59	0.68
46:GL:67:ASP:O	46:GL:92:PHE:HA	1.93	0.68
46:IL:274:THR:OG1	46:IL:279:GLN:OE1	2.11	0.68
46:JB:187:LEU:HD21	46:JB:408:PHE:HE2	1.59	0.68
46:JD:124:ALA:HB1	46:JD:130:LEU:HD11	1.74	0.68
45:KE:72:PRO:HG2	46:KF:1:MET:HE2	1.74	0.68
45:KG:11:GLN:NE2	45:KG:15:GLN:OE1	2.27	0.68
46:LF:262:ARG:NH1	46:LF:421:GLU:OE2	2.27	0.68
45:MC:407:TRP:HZ2	46:MD:258:ILE:HD11	1.58	0.68
46:ML:67:ASP:OD2	46:ML:68:LEU:N	2.27	0.68
45:NA:11:GLN:NE2	46:NB:245:GLN:O	2.26	0.68
46:NJ:102:ALA:HB2	46:NJ:403:MET:HE2	1.75	0.68
45:OA:75:ILE:HD13	45:OA:94:SER:HB2	1.74	0.68
45:OI:292:THR:HG21	45:OI:331:SER:HB3	1.74	0.68
46:PD:207:LEU:HD13	46:PD:228:LEU:HD11	1.76	0.68
46:QJ:45:GLU:OE1	46:QJ:46:ARG:NH1	2.25	0.68
46:RJ:376:GLU:OE2	46:RJ:380:ARG:NH1	2.27	0.68
45:RM:244:PHE:HB2	45:RM:356:ASN:HD21	1.59	0.68
45:SC:88:HIS:HB3	45:SC:91:GLN:HG2	1.75	0.68
45:TI:89:PRO:HG2	45:UI:280:LYS:HZ2	1.57	0.68
46:UH:299:MET:HG3	46:UH:301:CYS:H	1.59	0.68
46:VB:260:PHE:HB2	46:VB:263:LEU:HD13	1.74	0.68
45:VM:226:ASN:ND2	45:VM:367:ASP:OD2	2.26	0.68
4:0D:78:ALA:O	4:0D:80[A]:GLN:NE2	2.27	0.68
9:0N:120:ARG:NH2	9:0N:124:ASP:OD1	2.27	0.68
8:1H:346:GLN:OE1	8:1H:350:MET:HE1	1.94	0.68
15:1X:35:ASP:OD1	15:1X:36:ALA:N	2.26	0.68
36:5A:28:SER:O	36:5A:36:ARG:NH2	2.26	0.68
46:AF:66:MET:HE1	46:AF:147:MET:HB3	1.76	0.68
46:AF:210:ILE:O	46:AF:214:THR:OG1	2.12	0.68
46:BB:318:ARG:HB2	46:BB:364:ALA:HB3	1.75	0.68
46:CF:11:GLN:HB3	46:CF:72:THR:HG21	1.74	0.68
45:CK:316:SER:HA	45:CK:352:LYS:HB2	1.76	0.68
46:ED:45:GLU:OE2	46:ED:46:ARG:NH1	2.26	0.68
46:HH:218:THR:HG23	46:HH:219:THR:HG23	1.74	0.68
45:II:288:VAL:HG11	45:II:327:ASP:HB3	1.75	0.68
46:JH:350:LYS:NZ	46:JH:352:SER:OG	2.26	0.68
45:KK:9:VAL:HG12	45:KK:68:LEU:HB2	1.75	0.68
46:LB:7:ILE:HG22	46:LB:64:ILE:HB	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LH:257:LEU:HD21	46:LH:314:SER:HB2	1.74	0.68
45:LI:55:GLU:HG3	45:LI:57:GLY:H	1.59	0.68
46:ON:226:ASN:HD21	49:ON:501:GDP:HN1	1.41	0.68
45:PC:96:LYS:NZ	45:PC:97:GLU:OE2	2.25	0.68
46:QF:73:MET:HA	46:QF:76:VAL:HG12	1.75	0.68
45:QM:326:LYS:HD3	46:QN:212:PHE:HZ	1.59	0.68
45:RK:65:ALA:O	45:RK:91:GLN:NE2	2.27	0.68
46:SD:371:SER:O	46:SD:422:TYR:OH	2.10	0.68
45:SK:31:GLN:HG3	45:SK:32:PRO:HD2	1.74	0.68
46:TB:252:LYS:HE2	45:TC:100:ALA:HA	1.75	0.68
46:TD:178:THR:HB	46:TD:181:GLU:HG3	1.76	0.68
46:UD:178:THR:HG22	46:UD:180:VAL:H	1.59	0.68
45:VI:207:GLU:HA	45:VI:210:TYR:HD2	1.59	0.68
45:VI:254:GLU:OE1	46:VL:99:ASN:ND2	2.27	0.68
46:VN:222:TYR:O	46:VN:226:ASN:ND2	2.24	0.68
45:WC:328:VAL:HG11	45:WC:353:VAL:HG21	1.75	0.68
18:1I:152:LYS:NZ	45:KE:364:PRO:O	2.26	0.68
25:1R:458:ILE:HG12	46:FD:276:ARG:HH12	1.57	0.68
21:2L:524:ARG:NH2	46:BN:357:PRO:O	2.26	0.68
26:2W:270:GLU:OE1	45:LK:279:GLU:N	2.26	0.68
10:5Q:107:ASN:O	10:5Q:124:ARG:NH2	2.26	0.68
45:BC:326:LYS:NZ	46:BF:220:PRO:O	2.27	0.68
46:CL:309:ARG:NH1	46:CL:343:GLU:OE1	2.27	0.68
46:ED:12:CYS:HA	46:ED:15:GLN:HE21	1.57	0.68
46:ED:238:CYS:SG	46:ED:318:ARG:NE	2.66	0.68
46:FD:48:ASN:O	46:FD:62:ARG:NH1	2.26	0.68
46:GF:226:ASN:HD21	49:GF:501:GDP:HN1	1.42	0.68
45:GG:325:PRO:HA	45:GG:328:VAL:HG12	1.74	0.68
46:IJ:222:TYR:O	46:IJ:226:ASN:ND2	2.23	0.68
45:IM:239:THR:HG23	45:IM:243:ARG:HH12	1.59	0.68
45:KG:9:VAL:HG12	45:KG:68:LEU:HB2	1.74	0.68
45:MA:282:TYR:OH	45:MA:370:LYS:O	2.12	0.68
45:MK:241:SER:OG	45:MK:250:VAL:O	2.11	0.68
46:NB:213:ARG:NH2	46:NB:297:LYS:O	2.27	0.68
46:ND:218:THR:HG23	46:ND:219:THR:HG23	1.74	0.68
45:NG:27:GLU:OE1	45:NG:243:ARG:NH1	2.27	0.68
45:OA:339:ARG:O	45:OA:342:GLN:NE2	2.27	0.68
46:OJ:276:ARG:NH2	46:OJ:279:GLN:OE1	2.27	0.68
45:PA:244:PHE:HB2	45:PA:356:ASN:HD21	1.57	0.68
45:PG:89:PRO:HD2	45:QG:280:LYS:HZ3	1.59	0.68
46:QL:2:ARG:HH12	45:QM:98:ASP:H	1.42	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RG:55:GLU:O	45:SG:285:GLN:NE2	2.26	0.68
46:SH:405:GLU:HA	46:SH:408:PHE:HD2	1.58	0.68
46:TF:6:HIS:NE2	46:TF:8:GLN:OE1	2.26	0.68
46:TF:251:ARG:NH1	45:TG:97:GLU:OE2	2.27	0.68
45:VC:326:LYS:HZ1	46:VF:219:THR:HA	1.58	0.68
46:VH:73:MET:HA	46:VH:76:VAL:HG12	1.76	0.68
45:WI:140:SER:OG	47:WI:501:GTP:O2B	2.12	0.68
46:WJ:396:HIS:HA	46:WJ:399:THR:HG22	1.74	0.68
1:0A:134:LYS:HG3	1:0A:139:GLN:NE2	2.06	0.68
17:1F:168:ARG:H	45:GK:96:LYS:HE3	1.58	0.68
13:1U:75:LYS:HB3	13:1U:104:LEU:HD13	1.76	0.68
14:1V:160:ASP:OD2	14:1V:163:LYS:N	2.27	0.68
29:2G:94:ILE:HG13	29:2G:95:TYR:N	2.08	0.68
23:2O:338:LEU:HB3	23:2O:342:ARG:HH21	1.58	0.68
11:3S:86:ALA:HA	13:3U:308:GLU:HG2	1.75	0.68
35:5S:192:MET:HG2	46:AH:424:GLN:HG3	1.76	0.68
45:AC:188:ILE:HD12	45:AC:425:LEU:HD11	1.75	0.68
46:BB:139:LEU:HD22	46:BB:170:VAL:HG12	1.76	0.68
46:CB:200:MET:HE1	46:CB:266:PHE:HD2	1.58	0.68
46:CF:70:PRO:O	46:CF:74:ASP:HB2	1.94	0.68
46:CF:86:ARG:CD	46:DF:281:TYR:CE1	2.77	0.68
46:EB:139:LEU:HD22	46:EB:170:VAL:HG12	1.76	0.68
46:FJ:73:MET:HA	46:FJ:76:VAL:HG22	1.75	0.68
46:FJ:200:MET:HG3	46:FJ:266:PHE:HB2	1.76	0.68
46:FL:178:THR:HB	46:FL:181:GLU:HG3	1.75	0.68
46:FL:222:TYR:O	46:FL:226:ASN:ND2	2.23	0.68
46:FL:372:THR:HA	46:FL:422:TYR:HE1	1.57	0.68
45:GC:64:ARG:NH1	45:GC:129:CYS:SG	2.67	0.68
45:HI:326:LYS:NZ	46:HL:208:TYR:HB3	2.09	0.68
45:HM:50:ASN:O	45:HM:64:ARG:NH1	2.27	0.68
46:IH:100:ASN:ND2	46:IH:401:GLU:OE1	2.27	0.68
45:JM:112:LYS:HA	45:JM:115:VAL:HG12	1.76	0.68
45:KM:64:ARG:NH1	45:KM:129:CYS:SG	2.67	0.68
46:MH:372:THR:HA	46:MH:422:TYR:HE2	1.59	0.68
46:ML:6:HIS:O	46:ML:63:ALA:HA	1.93	0.68
46:OJ:328:GLU:O	46:OJ:332:ASN:ND2	2.27	0.68
46:PN:11:GLN:NE2	49:PN:502:GDP:O1A	2.27	0.68
46:QL:67:ASP:O	46:QL:92:PHE:HA	1.93	0.68
46:RD:51:TYR:HB3	46:RD:59:TYR:HB3	1.75	0.68
46:SH:83:GLN:O	46:TH:281:TYR:OH	2.11	0.68
45:SK:326:LYS:NZ	45:SK:327:ASP:OD1	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TJ:257:LEU:HD11	46:TJ:314:SER:HB3	1.76	0.68
46:TN:186:THR:HA	46:TN:415:MET:HE1	1.75	0.68
45:UI:79:ARG:HH21	45:UI:92:LEU:HB2	1.59	0.68
45:WI:222:PRO:HD2	46:WJ:324:LYS:HE3	1.77	0.68
2:0B:24:PRO:HD3	46:JH:276:ARG:HH12	1.60	0.67
13:0U:86:ILE:HD13	13:0U:134:VAL:HG13	1.76	0.67
19:1J:201:LYS:HB3	45:HG:57:GLY:HA3	1.75	0.67
24:1P:327:GLN:HG2	24:1P:330:ARG:HH22	1.59	0.67
21:2L:433:LEU:HD21	21:2L:440:PRO:HD3	1.75	0.67
21:2L:643:ARG:NH2	46:CL:357:PRO:O	2.26	0.67
23:2O:337:PHE:HB3	23:2O:341:LYS:NZ	2.09	0.67
10:2Q:115:LYS:HE3	45:AE:264:ARG:HE	1.57	0.67
12:3T:264:LYS:NZ	13:3U:26:ASP:O	2.27	0.67
36:5D:39:ARG:NH2	45:KK:424:ASP:OD2	2.26	0.67
34:5R:450:ASP:OD2	34:5R:452:THR:OG1	2.11	0.67
44:8R:251:ALA:HB1	46:PF:362:LYS:HE2	1.75	0.67
45:AE:27:GLU:OE2	45:AE:243:ARG:NH2	2.27	0.67
46:BJ:226:ASN:HD21	49:BJ:501:GDP:HN1	1.41	0.67
46:CF:248:SER:HA	46:CF:252:LYS:HD2	1.75	0.67
45:CI:108:TYR:CD2	45:CI:413:MET:HE1	2.28	0.67
46:CJ:268:ILE:HG22	46:CJ:368:VAL:HG12	1.74	0.67
46:DB:86:ARG:NH1	46:EB:281:TYR:H	1.92	0.67
46:DB:237:THR:HG23	46:DB:241:ARG:HH21	1.59	0.67
46:DF:6:HIS:O	46:DF:63:ALA:HA	1.94	0.67
45:DI:140:SER:OG	47:DI:501:GTP:O2B	2.11	0.67
46:DL:66:MET:HE1	46:DL:147:MET:HG2	1.75	0.67
45:DM:210:TYR:HE1	45:DM:227:LEU:HD11	1.57	0.67
45:EG:247:ALA:HB3	45:EG:355:ILE:HD11	1.76	0.67
46:EL:267:MET:HE1	46:EL:301:CYS:N	2.08	0.67
45:HK:292:THR:HG21	45:HK:331:SER:HB3	1.75	0.67
46:IB:156:ARG:NH1	46:IB:162:ARG:O	2.26	0.67
45:KC:65:ALA:O	45:KC:91:GLN:NE2	2.27	0.67
45:KG:210:TYR:CE1	46:KH:324:LYS:HB3	2.29	0.67
45:KG:226:ASN:ND2	45:KG:367:ASP:OD2	2.26	0.67
46:LJ:267:MET:HE2	46:LJ:299:MET:HG2	1.77	0.67
45:MG:282:TYR:OH	45:MG:370:LYS:O	2.11	0.67
45:NA:271:SER:OG	45:NA:301:MET:SD	2.52	0.67
45:NI:250:VAL:HG13	45:NI:254:GLU:HB2	1.76	0.67
45:OG:244:PHE:HB2	45:OG:356:ASN:HD21	1.59	0.67
45:PC:140:SER:OG	47:PD:501:GTP:O2B	2.12	0.67
46:PN:32:PRO:O	46:PN:83:GLN:NE2	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RH:62:ARG:NH1	46:RH:127:CYS:SG	2.67	0.67
46:RL:268:ILE:H	46:RL:299:MET:HE1	1.59	0.67
45:SA:108:TYR:HA	45:SA:112:LYS:HE3	1.75	0.67
46:TF:191:GLN:NE2	46:TF:195:ASN:OD1	2.27	0.67
46:TF:302:ALA:HB3	46:TF:377:MET:HE1	1.75	0.67
45:TK:69:ASP:HB3	45:TK:75:ILE:HD11	1.75	0.67
45:TK:371:VAL:HG12	45:TK:373:ARG:H	1.59	0.67
45:UC:172:TYR:HE1	45:UC:203:MET:HA	1.59	0.67
46:UD:252:LYS:NZ	47:UE:501:GTP:O1G	2.26	0.67
45:UE:292:THR:HG21	45:UE:331:SER:HB3	1.76	0.67
46:UF:372:THR:HA	46:UF:422:TYR:HE2	1.57	0.67
46:VF:273:LEU:H	46:VF:292:GLN:HE22	1.42	0.67
46:VL:304:ASP:OD2	46:VL:307:HIS:ND1	2.25	0.67
46:WF:247:ASN:O	46:WF:252:LYS:NZ	2.27	0.67
45:WK:399:TYR:O	45:WK:402:ARG:NH1	2.27	0.67
45:DC:224:TYR:HD1	45:DC:227:LEU:HD12	1.60	0.67
45:DC:317:MET:HG3	45:DC:377:MET:HB3	1.75	0.67
15:0X:38:ILE:HA	15:0X:41:GLN:HE21	1.59	0.67
24:1P:248:LYS:NZ	46:TF:280:GLN:OE1	2.27	0.67
12:1T:268:LEU:HG	13:1U:43:ILE:HG21	1.75	0.67
5:2E:179:ASP:O	5:2E:183:GLN:NE2	2.27	0.67
11:2S:140:ARG:HH21	11:2S:142:ASP:CG	2.01	0.67
26:2W:225:ARG:HH12	27:4C:14:ARG:HB3	1.58	0.67
25:3R:456:SER:O	46:FL:276:ARG:NH1	2.28	0.67
35:4S:207:SER:OG	35:4S:212:GLU:OE2	2.12	0.67
40:6G:185:TYR:OH	45:UG:123:ARG:NH2	2.27	0.67
34:7R:242:ASN:HB2	45:BA:57:GLY:HA3	1.76	0.67
45:CA:318:MET:HE1	45:CA:320:ARG:HD2	1.76	0.67
46:CJ:211:CYS:HA	46:CJ:215:LEU:HD12	1.75	0.67
46:CJ:290:THR:HA	46:CJ:293:MET:HG2	1.76	0.67
46:DL:31:ASP:OD1	46:DL:35:THR:N	2.28	0.67
46:EF:282:ARG:HE	46:EF:283:ALA:H	1.40	0.67
45:EM:66:VAL:HB	45:EM:121:ARG:NH1	2.09	0.67
46:KJ:318:ARG:HH12	46:KJ:358:PRO:HG3	1.59	0.67
46:KL:109:GLY:HA2	46:KL:147:MET:HE2	1.76	0.67
46:LF:392:LYS:HG3	46:LF:395:LEU:HD22	1.76	0.67
46:ND:372:THR:HB	46:ND:426:GLN:HE21	1.60	0.67
46:OL:16:ILE:HD13	46:OL:226:ASN:HD22	1.60	0.67
45:OM:120:ASP:OD1	45:OM:123:ARG:NH2	2.25	0.67
46:QH:390:ARG:HD2	46:QH:391:ARG:HG2	1.76	0.67
45:RE:260:VAL:HG23	46:RF:397:TRP:HZ2	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RF:45:GLU:HG2	46:RF:46:ARG:HG2	1.76	0.67
45:SG:339:ARG:O	45:SG:342:GLN:NE2	2.27	0.67
46:TH:372:THR:HA	46:TH:422:TYR:HE2	1.59	0.67
46:TJ:2:ARG:HH12	45:TK:71:GLU:HG2	1.58	0.67
45:VA:229:ARG:O	45:VA:233:GLN:NE2	2.27	0.67
45:VC:209:ILE:HD11	45:VC:302:MET:HG3	1.76	0.67
45:VG:55:GLU:HG3	45:VG:57:GLY:H	1.59	0.67
45:VG:339:ARG:O	45:VG:342:GLN:NE2	2.26	0.67
46:VN:215:LEU:HB3	46:VN:217:LEU:HD23	1.74	0.67
45:WC:133:GLN:HE22	45:WC:242:LEU:HD21	1.58	0.67
45:WC:174:SER:OG	45:WC:207:GLU:OE1	2.11	0.67
45:DC:109:THR:O	45:DC:112:LYS:NZ	2.27	0.67
6:0F:207:THR:O	6:0F:210:ASP:N	2.27	0.67
1:1A:101:ASN:ND2	34:4R:60:GLY:O	2.26	0.67
12:1T:113:ASP:OD2	12:1T:114:LYS:N	2.25	0.67
23:2O:257:GLN:HG2	45:UI:58:ALA:HB3	1.75	0.67
12:3T:264:LYS:HZ2	13:3U:27:ASN:HB2	1.60	0.67
13:3U:324:ASN:HD21	13:3U:366:TYR:HD1	1.39	0.67
13:3U:325:ASP:OD2	13:3U:367:CYS:N	2.27	0.67
34:5R:242:ASN:HB2	45:BI:57:GLY:HA3	1.74	0.67
46:AD:135:ILE:HG13	46:AD:152:ILE:HD11	1.76	0.67
45:CA:333:ALA:O	45:CA:337:THR:HG23	1.95	0.67
46:CD:346:PRO:HD2	45:CE:398:MET:HE1	1.74	0.67
45:DM:211:ASP:OD1	45:DM:214:ARG:NH2	2.27	0.67
45:EE:76:ASP:OD1	45:EE:79:ARG:NH2	2.21	0.67
46:EN:66:MET:HE2	46:EN:116:VAL:HG21	1.76	0.67
46:GD:396:HIS:HA	46:GD:399:THR:HG22	1.75	0.67
46:GH:132:GLY:HA3	46:GH:163:ILE:HG22	1.77	0.67
45:KI:396:ASP:OD1	45:KI:422:ARG:NH1	2.26	0.67
45:KK:49:PHE:HE1	45:KK:55:GLU:HB2	1.59	0.67
45:KM:70:LEU:HD13	45:KM:95:GLY:HA3	1.77	0.67
46:NN:91:VAL:HG21	46:NN:116:VAL:HG12	1.76	0.67
46:PH:256:ASN:ND2	46:PH:350:LYS:HE3	2.10	0.67
45:QE:11:GLN:NE2	47:QE:501:GTP:O1B	2.27	0.67
46:RL:54:ALA:HA	46:SL:283:ALA:HB2	1.74	0.67
46:SB:61:PRO:HG2	46:SB:85:PHE:HA	1.75	0.67
46:SF:200:MET:HG2	46:SF:266:PHE:HB2	1.77	0.67
45:TC:328:VAL:HG11	45:TC:353:VAL:HG21	1.77	0.67
46:TH:178:THR:HB	46:TH:181:GLU:HG3	1.76	0.67
45:VA:221:ARG:NH1	46:VB:322:SER:OG	2.27	0.67
45:VG:76:ASP:OD2	46:VH:46:ARG:NH2	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:WH:273:LEU:H	46:WH:292:GLN:HE22	1.40	0.67
12:0T:68:GLY:HA2	12:0T:112:PRO:HA	1.77	0.67
13:0U:325:ASP:OD1	13:0U:339:CYS:HB3	1.94	0.67
19:1J:49:ARG:NH2	46:HD:54:ALA:O	2.28	0.67
20:1K:187:TYR:OH	46:GD:279:GLN:O	2.06	0.67
14:1V:228:HIS:CD2	46:VL:87:PRO:HB3	2.30	0.67
23:2O:406:ARG:HG3	46:VD:276:ARG:HH21	1.60	0.67
15:4X:1:MET:SD	15:4X:1:MET:N	2.67	0.67
40:6G:210:ARG:NH2	46:VF:301:CYS:O	2.27	0.67
45:AG:55:GLU:HG3	45:AG:57:GLY:H	1.59	0.67
46:AJ:73:MET:HA	46:AJ:76:VAL:HG12	1.75	0.67
46:AN:48:ASN:O	46:AN:62:ARG:NH1	2.26	0.67
45:BA:33:ASP:O	45:BA:60:LYS:NZ	2.27	0.67
46:BB:309:ARG:NH1	46:BB:343:GLU:OE1	2.27	0.67
46:CF:268:ILE:HG22	46:CF:368:VAL:HG12	1.75	0.67
45:DE:329:ASN:HA	45:DE:332:ILE:HD12	1.76	0.67
45:DI:15:GLN:NE2	47:DI:501:GTP:O6	2.27	0.67
45:EC:225:THR:HB	45:EC:229:ARG:HH12	1.58	0.67
45:EI:60:LYS:NZ	45:EI:85:GLN:O	2.25	0.67
46:EJ:309:ARG:NH2	46:EJ:426:GLN:O	2.25	0.67
46:EL:267:MET:HE2	46:EL:299:MET:HB3	1.76	0.67
45:FC:271:SER:HA	45:FC:302:MET:HG2	1.75	0.67
45:FK:60:LYS:NZ	45:FK:85:GLN:O	2.26	0.67
46:GD:318:ARG:HB3	46:GD:357:PRO:HA	1.77	0.67
45:JC:9:VAL:HG12	45:JC:68:LEU:HB2	1.76	0.67
46:JJ:139:LEU:HD12	46:JJ:170:VAL:HG12	1.77	0.67
45:KM:308:ARG:NH1	45:KM:340:THR:OG1	2.25	0.67
46:LH:7:ILE:HG22	46:LH:64:ILE:HB	1.76	0.67
45:NI:210:TYR:HE1	45:NI:227:LEU:HD11	1.57	0.67
46:OD:247:ASN:OD1	46:OD:252:LYS:NZ	2.28	0.67
46:PH:200:MET:HG2	46:PH:266:PHE:HB2	1.76	0.67
46:PH:371:SER:O	46:PH:422:TYR:OH	2.12	0.67
45:RC:242:LEU:HD11	45:RC:252:ILE:HD11	1.77	0.67
46:RD:5:VAL:HG12	46:RD:62:ARG:HD3	1.74	0.67
46:SJ:194:GLU:OE2	46:SJ:262:ARG:NH2	2.28	0.67
46:UH:198:GLU:HG2	46:UH:266:PHE:HE2	1.57	0.67
45:UK:123:ARG:HH12	45:UK:127:ASP:HB3	1.59	0.67
46:UN:96:GLY:O	46:UN:103:LYS:NZ	2.27	0.67
45:WA:31:GLN:OE1	45:WA:31:GLN:N	2.27	0.67
45:WC:90:GLU:OE1	45:WC:121:ARG:NH2	2.27	0.67
9:0N:57:GLY:O	9:0N:144:ARG:NH1	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:1U:543:LYS:NZ	13:1U:585:PRO:O	2.28	0.67
13:1U:604:MET:HE2	13:1U:608:VAL:HG21	1.75	0.67
34:7R:470:PHE:HD2	34:7R:471:LEU:HG	1.59	0.67
46:AD:33:THR:O	46:AD:58:ARG:NH1	2.27	0.67
45:AG:260:VAL:HB	46:AJ:397:TRP:CZ2	2.30	0.67
46:AH:73:MET:HA	46:AH:76:VAL:HG12	1.76	0.67
45:AK:406:HIS:HA	45:AK:409:VAL:HG22	1.76	0.67
46:DB:235:GLY:HA3	46:DB:366:THR:HG21	1.75	0.67
46:DB:314:SER:HA	46:DB:350:LYS:HB2	1.76	0.67
45:DE:140:SER:OG	47:DE:501:GTP:O2B	2.13	0.67
45:DG:244:PHE:HB2	45:DG:356:ASN:HD21	1.59	0.67
46:DL:290:THR:HA	46:DL:293:MET:HG2	1.76	0.67
46:EF:54:ALA:HA	46:FF:283:ALA:HB2	1.77	0.67
45:EM:157:LEU:HD22	45:EM:166:LYS:HD3	1.76	0.67
46:GN:316:LEU:HG	46:GN:352:SER:HB2	1.76	0.67
46:HB:139:LEU:HD22	46:HB:170:VAL:HG12	1.76	0.67
46:HB:272:PRO:HD2	46:HB:361:LEU:HD13	1.77	0.67
45:HG:328:VAL:HG11	45:HG:353:VAL:HG21	1.76	0.67
46:HJ:194:GLU:OE2	46:HJ:195:ASN:ND2	2.28	0.67
46:IJ:8:GLN:HE22	46:IJ:17:GLY:HA3	1.59	0.67
46:IL:222:TYR:O	46:IL:226:ASN:ND2	2.20	0.67
46:JJ:207:LEU:HB3	46:JJ:225:LEU:HD22	1.75	0.67
46:JN:375:GLN:HA	46:JN:378:PHE:HD2	1.58	0.67
45:KK:140:SER:HA	45:KK:171:ILE:HB	1.74	0.67
45:LA:31:GLN:HG3	45:LA:37:PRO:HD3	1.76	0.67
46:NH:378:PHE:HB3	46:NH:415:MET:HE1	1.76	0.67
46:OB:309:ARG:NH1	46:OB:343:GLU:OE1	2.28	0.67
45:OC:2:ARG:HH21	45:OC:242:LEU:HA	1.60	0.67
45:OC:224:TYR:O	45:OC:228:ASN:ND2	2.25	0.67
46:RD:405:GLU:HA	46:RD:408:PHE:HD2	1.59	0.67
45:RE:326:LYS:NZ	46:RF:208:TYR:HB3	2.09	0.67
46:RJ:52:ASN:OD1	46:RJ:62:ARG:NH2	2.28	0.67
46:SB:200:MET:HE3	46:SB:268:ILE:HG21	1.76	0.67
46:SJ:58:ARG:NH2	46:TJ:280:GLN:O	2.28	0.67
45:SM:9:VAL:HG12	45:SM:68:LEU:HB2	1.76	0.67
46:TD:68:LEU:HB3	46:TD:96:GLY:HA2	1.75	0.67
46:UF:324:LYS:N	45:UG:221:ARG:HH22	1.91	0.67
46:UH:267:MET:HB3	46:UH:299:MET:HE2	1.77	0.67
46:UL:139:LEU:HD13	46:UL:168:SER:HB3	1.77	0.67
45:UM:430:LYS:O	45:UM:433:GLU:HG3	1.94	0.67
46:VD:49:VAL:HG11	46:VD:241:ARG:HG2	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VI:76:ASP:OD2	46:VJ:46:ARG:NH2	2.28	0.67
46:VN:375:GLN:HB2	46:VN:379:LYS:HE2	1.77	0.67
8:1H:50:ARG:NH1	8:1H:54:ASP:OD2	2.28	0.67
21:1L:369:GLN:HB3	21:1L:370:PRO:HD2	1.77	0.67
4:2D:99:ARG:HH22	45:EK:364:PRO:HA	1.58	0.67
25:2R:455:ASN:O	46:FH:276:ARG:NH2	2.26	0.67
27:3C:36:ARG:HH22	27:3C:89:LEU:HA	1.58	0.67
37:5G:71:PRO:HG3	37:5G:106:VAL:HG13	1.77	0.67
45:BE:135:PHE:HB2	45:BE:166:LYS:HG3	1.75	0.67
45:CG:9:VAL:HG12	45:CG:68:LEU:HB3	1.76	0.67
45:DE:292:THR:HG21	45:DE:331:SER:HB2	1.76	0.67
46:EF:183:TYR:HE2	46:EF:388:MET:HB3	1.59	0.67
46:EF:318:ARG:O	46:EF:363:MET:HA	1.95	0.67
46:EL:316:LEU:HG	46:EL:352:SER:HB2	1.76	0.67
45:FM:226:ASN:ND2	45:FM:367:ASP:OD2	2.25	0.67
45:IM:317:MET:HE1	45:IM:377:MET:SD	2.35	0.67
45:JE:181:VAL:H	46:JF:350:LYS:HZ3	1.43	0.67
45:JE:254:GLU:OE2	45:JE:352:LYS:NZ	2.27	0.67
46:JL:313:ALA:HB3	46:JL:349:ILE:HG22	1.76	0.67
46:KJ:95:THR:HG21	46:KJ:108:GLU:HG2	1.77	0.67
45:KM:9:VAL:HG12	45:KM:68:LEU:HB2	1.74	0.67
46:MD:286:VAL:HG21	46:MD:325:GLU:HG3	1.76	0.67
45:MK:64:ARG:NH1	45:MK:129:CYS:SG	2.68	0.67
46:NL:326:VAL:O	46:NL:330:MET:HG2	1.94	0.67
45:OA:398:MET:HE1	46:OB:345:ILE:HA	1.75	0.67
45:PM:174:SER:OG	45:PM:206:ASN:OD1	2.11	0.67
46:QB:83:GLN:O	46:RB:281:TYR:OH	2.13	0.67
46:QF:166:THR:OG1	46:QF:199:CYS:SG	2.51	0.67
45:RK:124:LYS:NZ	45:SK:294:SER:OG	2.26	0.67
45:SE:371:VAL:HG12	45:SE:373:ARG:H	1.59	0.67
45:TC:133:GLN:HB3	45:TC:252:ILE:HD11	1.77	0.67
46:TF:268:ILE:HG13	46:TF:300:MET:HG3	1.76	0.67
45:TG:326:LYS:HZ1	46:TH:219:THR:HA	1.58	0.67
45:TM:226:ASN:ND2	45:TM:367:ASP:OD1	2.28	0.67
46:UB:210:ILE:HA	46:UB:297:LYS:NZ	2.09	0.67
46:UF:345:ILE:HG13	45:UG:398:MET:HE1	1.76	0.67
46:UH:178:THR:HB	46:UH:181:GLU:HG3	1.77	0.67
45:VG:422:ARG:HH12	45:VG:426:ALA:HB2	1.58	0.67
8:1H:227:GLN:HA	8:1H:233:GLN:HE22	1.60	0.67
21:1L:524:ARG:HG2	21:1L:592:PHE:HZ	1.58	0.67
25:1R:244:ARG:HA	25:1R:244:ARG:NH1	2.09	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:2O:178:ASP:O	23:2O:181:MET:N	2.28	0.67
12:2T:277:THR:OG1	13:2U:352:ARG:NH2	2.27	0.67
1:3A:35:TYR:HD2	46:MN:320:ARG:HH12	1.42	0.67
31:3I:287:ARG:HH22	45:FG:59:GLY:N	1.91	0.67
37:5F:179:TYR:HD1	45:KG:410:GLY:HA2	1.59	0.67
45:AA:292:THR:HG21	45:AA:331:SER:HB3	1.75	0.67
45:AI:288:VAL:HG11	45:AI:327:ASP:HB3	1.74	0.67
45:CA:292:THR:HG21	45:CA:331:SER:HB3	1.77	0.67
46:CB:321:MET:HB2	45:CC:221:ARG:HH21	1.59	0.67
45:CK:70:LEU:HD13	45:CK:95:GLY:HA3	1.77	0.67
45:CM:254:GLU:HG2	46:CN:98:GLY:HA2	1.77	0.67
45:DA:298:PRO:HA	45:DA:301:MET:HE1	1.75	0.67
45:DE:141:VAL:HG11	45:DE:172:TYR:HD1	1.60	0.67
45:EM:276:ILE:HG13	45:EM:280:LYS:HE3	1.76	0.67
46:FN:67:ASP:O	46:FN:92:PHE:HA	1.95	0.67
46:FN:257:LEU:HD11	46:FN:314:SER:HB2	1.76	0.67
46:HJ:109:GLY:HA2	46:HJ:147:MET:HE2	1.76	0.67
45:IE:292:THR:HG21	45:IE:331:SER:HB3	1.76	0.67
46:IJ:226:ASN:HD21	49:IJ:501:GDP:HN1	1.42	0.67
46:JN:276:ARG:HA	46:JN:279:GLN:HE22	1.59	0.67
46:KB:52:ASN:OD1	46:KB:62:ARG:NH2	2.28	0.67
46:KD:322:SER:OG	46:KD:325:GLU:OE1	2.13	0.67
46:KN:31:ASP:OD1	46:KN:35:THR:N	2.27	0.67
45:MA:292:THR:HG21	45:MA:331:SER:HB2	1.76	0.67
45:MG:292:THR:HG21	45:MG:331:SER:HB3	1.75	0.67
45:OA:288:VAL:HG21	45:OA:327:ASP:HB3	1.77	0.67
46:OD:1:MET:N	46:OD:48:ASN:OD1	2.27	0.67
46:OD:285:THR:HG23	46:OD:287:PRO:HD2	1.76	0.67
45:OE:286:LEU:N	45:OE:290:GLU:OE2	2.27	0.67
45:OI:298:PRO:HA	45:OI:301:MET:HE1	1.75	0.67
45:PA:221:ARG:NH1	46:PB:322:SER:OG	2.27	0.67
46:PH:236:VAL:HG13	46:PH:237:THR:HG23	1.75	0.67
46:QF:49:VAL:HG23	46:QF:50:TYR:HD1	1.60	0.67
45:SG:164:LYS:HD3	45:SG:165:SER:H	1.59	0.67
46:UF:48:ASN:O	46:UF:62:ARG:NH1	2.25	0.67
46:UJ:49:VAL:HG11	46:UJ:241:ARG:HG2	1.75	0.67
45:UK:88:HIS:NE2	45:VI:284:GLU:OE2	2.28	0.67
46:VH:77:ARG:NH1	46:VH:82:GLY:O	2.27	0.67
45:VK:140:SER:OG	47:VK:501:GTP:O2B	2.13	0.67
46:WN:73:MET:HA	46:WN:76:VAL:HG12	1.77	0.67
1:0A:135:SER:HB3	1:0A:138:TRP:CD1	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0B:236:ILE:O	46:JL:276:ARG:NH2	2.28	0.67
5:0E:96:ARG:HE	5:0E:178:ASP:HA	1.60	0.67
8:1H:288:ARG:NH1	8:1H:289:GLU:HG3	2.10	0.67
19:1J:77:TYR:HB2	45:IC:371:VAL:HG12	1.77	0.67
20:1K:244:GLU:HA	20:1K:247:LYS:HE3	1.76	0.67
25:1R:351:ASP:OD1	25:1R:354:ARG:NH2	2.28	0.67
12:1T:284:SER:O	12:1T:285:ARG:NE	2.28	0.67
11:3S:176:ASP:OD2	11:3S:179:ARG:NH2	2.28	0.67
13:3U:154:PHE:CD1	13:3U:162:ILE:HD12	2.30	0.67
39:6F:124:ARG:O	39:6F:128:THR:N	2.28	0.67
40:6G:241:LYS:HE3	46:VD:336:LYS:HD2	1.77	0.67
10:6Q:71:ILE:HG22	10:6Q:73:LEU:H	1.60	0.67
45:AA:108:TYR:O	45:AA:112:LYS:NZ	2.25	0.67
45:AK:387:VAL:HG12	45:AK:390:ARG:HH12	1.60	0.67
46:CB:314:SER:HA	46:CB:350:LYS:HB2	1.77	0.67
46:CH:252:LYS:O	46:CH:256:ASN:ND2	2.28	0.67
45:CI:141:VAL:HG11	45:CI:172:TYR:HD1	1.60	0.67
46:EL:207:LEU:HB3	46:EL:225:LEU:HD22	1.75	0.67
45:FC:9:VAL:HG12	45:FC:68:LEU:HB2	1.75	0.67
46:FF:64:ILE:HD13	46:FF:119:VAL:HG13	1.77	0.67
45:GI:108:TYR:HA	45:GI:112:LYS:HE3	1.76	0.67
45:GK:76:ASP:OD1	45:GK:79:ARG:NH2	2.28	0.67
46:IB:222:TYR:O	46:IB:226:ASN:ND2	2.24	0.67
46:IF:200:MET:HG3	46:IF:266:PHE:HB2	1.76	0.67
45:IG:121:ARG:HH11	45:IG:121:ARG:HA	1.60	0.67
45:IG:176:GLN:HG2	45:IG:177:VAL:HG23	1.77	0.67
46:JN:141:GLY:O	46:JN:145:SER:OG	2.08	0.67
45:KK:11:GLN:HG3	45:KK:74:VAL:HG21	1.76	0.67
45:KK:226:ASN:ND2	45:KK:367:ASP:OD2	2.27	0.67
46:LD:62:ARG:NH1	46:LD:127:CYS:SG	2.68	0.67
45:LI:223:THR:HG22	45:LI:224:TYR:H	1.59	0.67
46:MJ:293:MET:HE3	46:MJ:367:PHE:HB2	1.76	0.67
45:OA:90:GLU:OE2	45:OA:121:ARG:NH1	2.28	0.67
46:OF:198:GLU:HG2	46:OF:266:PHE:HE2	1.59	0.67
45:OK:399:TYR:OH	45:OK:415:GLU:OE2	2.13	0.67
45:PI:352:LYS:HZ1	46:PL:179:VAL:HG22	1.58	0.67
45:SE:64:ARG:NH1	45:SE:129:CYS:SG	2.68	0.67
46:SF:371:SER:O	46:SF:422:TYR:OH	2.13	0.67
46:TB:251:ARG:NH2	45:TC:98:ASP:O	2.28	0.67
45:UE:288:VAL:HG11	45:UE:327:ASP:HB3	1.75	0.67
45:UI:33:ASP:HA	45:UI:85:GLN:HE21	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UL:67:ASP:O	46:UL:92:PHE:HA	1.94	0.67
45:UM:229:ARG:O	45:UM:233:GLN:NE2	2.28	0.67
46:VB:273:LEU:N	46:VB:292:GLN:OE1	2.27	0.67
46:VD:222:TYR:O	46:VD:226:ASN:ND2	2.22	0.67
45:VG:292:THR:HG21	45:VG:331:SER:HB3	1.75	0.67
45:VK:292:THR:HG21	45:VK:331:SER:HB3	1.74	0.67
45:WA:1:MET:SD	46:WD:94:GLN:NE2	2.66	0.67
46:WD:7:ILE:HG13	46:WD:135:ILE:HG13	1.77	0.67
7:0G:77:ASN:HD22	9:0N:29:LYS:HB3	1.59	0.67
13:0U:113:ASN:ND2	13:0U:159:ASP:OD2	2.27	0.67
4:2D:63:TYR:O	4:2D:67:LYS:NZ	2.27	0.67
25:3R:423:PHE:HB2	25:3R:435:PHE:HE2	1.59	0.67
12:3T:237:TYR:HA	12:3T:240:LYS:HD3	1.75	0.67
13:3U:385:LYS:NZ	13:3U:401:SER:OG	2.28	0.67
33:4F:229:ARG:NH1	46:HN:41:ASP:OD2	2.28	0.67
45:EE:60:LYS:NZ	45:EE:85:GLN:O	2.28	0.67
45:EK:188:ILE:HD12	45:EK:425:LEU:HD11	1.76	0.67
45:FA:206:ASN:OD1	47:FA:501:GTP:N2	2.27	0.67
45:FK:120:ASP:OD1	45:FK:123:ARG:NH2	2.26	0.67
46:ID:130:LEU:O	46:ID:162:ARG:NH1	2.28	0.67
45:IE:55:GLU:HG3	45:IE:57:GLY:H	1.60	0.67
46:IH:207:LEU:HD22	46:IH:228:LEU:HD11	1.75	0.67
45:JC:141:VAL:HG11	45:JC:172:TYR:HD1	1.60	0.67
46:LJ:362:LYS:HG2	46:LJ:363:MET:HG3	1.76	0.67
46:PF:207:LEU:HB3	46:PF:225:LEU:HD22	1.76	0.67
46:PF:237:THR:HG23	46:PF:241:ARG:HH21	1.59	0.67
45:PK:242:LEU:HD11	45:PK:252:ILE:HG12	1.77	0.67
46:QD:73:MET:HA	46:QD:76:VAL:HG12	1.77	0.67
45:QI:188:ILE:HD12	45:QI:425:LEU:HD11	1.77	0.67
45:RM:55:GLU:HG3	45:RM:57:GLY:H	1.60	0.67
45:SC:134:GLY:HA2	45:SC:164:LYS:HE2	1.76	0.67
45:SG:402:ARG:HH22	45:SG:406:HIS:HB3	1.59	0.67
46:SH:139:LEU:HD22	46:SH:170:VAL:HG12	1.77	0.67
45:TG:226:ASN:ND2	45:TG:367:ASP:OD2	2.28	0.67
46:TJ:1:MET:N	46:TJ:3:GLU:OE1	2.28	0.67
45:TM:399:TYR:O	45:TM:402:ARG:NH2	2.28	0.67
45:VA:271:SER:HA	45:VA:302:MET:HG2	1.76	0.67
46:VJ:16:ILE:HD12	46:VJ:229:VAL:HG11	1.77	0.67
45:WM:90:GLU:OE1	45:WM:121:ARG:NH1	2.28	0.67
31:2I:198:LEU:O	31:2I:200:GLY:N	2.24	0.67
30:3H:174:PHE:CD2	34:4R:147:ARG:CD	2.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:4S:184:ARG:HG2	35:4S:240:MET:HE1	1.77	0.67
37:5G:173:LYS:HD3	46:KL:194:GLU:HA	1.76	0.67
46:AF:286:VAL:HG21	46:AF:325:GLU:HB3	1.76	0.67
45:AM:406:HIS:HA	45:AM:409:VAL:HG12	1.77	0.67
46:BJ:135:ILE:HG13	46:BJ:152:ILE:HD11	1.77	0.67
46:BN:90:PHE:HB3	46:BN:92:PHE:HE2	1.60	0.67
46:DD:86:ARG:NH1	46:ED:281:TYR:HB2	2.10	0.67
45:DE:345:ASP:OD1	46:DF:390:ARG:NH2	2.26	0.67
46:EB:223:GLY:O	46:EB:227:HIS:ND1	2.28	0.67
45:EG:89:PRO:HG2	45:FE:280:LYS:HE2	1.76	0.67
45:EM:63:PRO:HG2	45:EM:87:PHE:HD1	1.60	0.67
45:EM:301:MET:HG3	45:EM:303:ALA:H	1.59	0.67
45:GC:101:ASN:HA	45:GC:144:GLY:H	1.60	0.67
45:IE:406:HIS:HA	45:IE:409:VAL:HG12	1.77	0.67
45:JG:296:PHE:HD2	45:JG:341:ILE:HD13	1.60	0.67
45:KI:65:ALA:O	45:KI:91:GLN:NE2	2.27	0.67
45:MC:255:PHE:HA	45:MC:259:LEU:HD23	1.76	0.67
45:MG:226:ASN:ND2	45:MG:367:ASP:OD2	2.28	0.67
46:MH:31:ASP:OD1	46:MH:37:HIS:ND1	2.28	0.67
46:MJ:284:LEU:HD21	46:MJ:363:MET:HB2	1.75	0.67
46:NB:221:THR:HG23	46:NB:223:GLY:H	1.58	0.67
45:PA:55:GLU:HG3	45:PA:57:GLY:H	1.59	0.67
45:PG:387:VAL:HA	45:PG:390:ARG:HD3	1.76	0.67
46:PN:108:GLU:HG3	46:PN:112:LEU:HD23	1.76	0.67
45:QK:108:TYR:O	45:QK:112:LYS:NZ	2.28	0.67
46:RB:20:PHE:CG	46:RB:233:MET:HE1	2.30	0.67
46:RD:257:LEU:O	46:RD:370:ASN:ND2	2.28	0.67
46:RF:12:CYS:HA	46:RF:15:GLN:HE21	1.60	0.67
46:RL:6:HIS:CD2	46:RL:8:GLN:HE22	2.13	0.67
45:SC:387:VAL:HG12	45:SC:390:ARG:HH22	1.59	0.67
46:SL:60:VAL:HG21	46:SL:86:ARG:HG2	1.76	0.67
46:TB:324:LYS:HG2	45:TC:222:PRO:HG2	1.77	0.67
45:TE:316:SER:HA	45:TE:352:LYS:HB2	1.76	0.67
46:TJ:372:THR:HA	46:TJ:422:TYR:HE2	1.60	0.67
46:TL:2:ARG:HH12	45:TM:71:GLU:HG2	1.60	0.67
46:TN:229:VAL:HG12	46:TN:233:MET:HE2	1.76	0.67
46:UD:258:ILE:HD12	46:UD:264:HIS:HB3	1.76	0.67
46:UJ:96:GLY:O	46:UJ:103:LYS:NZ	2.27	0.67
46:WJ:6:HIS:NE2	46:WJ:8:GLN:OE1	2.28	0.67
46:WN:293:MET:HE2	46:WN:367:PHE:HB2	1.76	0.67
16:1B:177:LEU:HD12	16:1B:185:PHE:HD1	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:1J:330:LYS:O	46:HN:77:ARG:NH2	2.28	0.66
24:1P:101:ARG:HE	24:1P:104:LYS:HZ3	1.43	0.66
13:1U:84:ILE:HD11	13:1U:105:ILE:HG21	1.77	0.66
5:2E:10:ASN:HA	5:2E:13:ARG:HE	1.61	0.66
9:2N:69:LYS:HB2	9:2N:72:TYR:HE2	1.58	0.66
25:2R:473:GLN:HE22	25:2R:491:ILE:HB	1.60	0.66
34:5R:32:THR:HA	45:LG:1:MET:HE3	1.77	0.66
46:AB:309:ARG:H	46:AB:426:GLN:HE22	1.43	0.66
45:EE:209:ILE:HD12	45:EE:227:LEU:HB3	1.77	0.66
45:EE:296:PHE:HE2	45:EE:377:MET:HG3	1.60	0.66
45:HA:221:ARG:NH1	46:HB:322:SER:OG	2.28	0.66
46:HB:73:MET:HE1	46:HB:92:PHE:HB3	1.77	0.66
46:IB:83:GLN:HE21	46:IB:84:LEU:HD22	1.59	0.66
46:IJ:86:ARG:CZ	45:JG:283:HIS:HB2	2.25	0.66
46:KD:31:ASP:OD1	46:KD:35:THR:N	2.27	0.66
45:KE:407:TRP:CZ3	46:KF:255:VAL:HA	2.30	0.66
46:MB:420:SER:O	46:MB:424:GLN:NE2	2.28	0.66
45:NA:60:LYS:NZ	45:NA:61:HIS:O	2.27	0.66
46:NH:390:ARG:O	46:NH:392:LYS:NZ	2.27	0.66
46:PF:178:THR:HG22	46:PF:180:VAL:H	1.58	0.66
45:PG:260:VAL:HG23	46:PJ:397:TRP:HE1	1.60	0.66
45:RA:326:LYS:HD3	46:RB:212:PHE:HZ	1.59	0.66
45:RK:140:SER:OG	47:RK:501:GTP:O2B	2.13	0.66
46:SB:330:MET:HE2	46:SB:349:ILE:HG12	1.77	0.66
45:SE:76:ASP:OD1	45:SE:79:ARG:NH2	2.28	0.66
45:TA:226:ASN:ND2	45:TA:367:ASP:OD2	2.28	0.66
46:TD:293:MET:SD	46:TD:367:PHE:HB2	2.34	0.66
45:TG:288:VAL:HG11	45:TG:327:ASP:HB3	1.76	0.66
46:UD:282:ARG:NH2	46:UD:292:GLN:OE1	2.28	0.66
45:VA:222:PRO:HD2	46:VB:324:LYS:HE3	1.77	0.66
46:VD:268:ILE:N	46:VD:299:MET:HE1	2.10	0.66
45:VK:101:ASN:HA	45:VK:144:GLY:H	1.60	0.66
45:VM:60:LYS:NZ	45:VM:85:GLN:O	2.28	0.66
46:WH:293:MET:HE2	46:WH:367:PHE:HB2	1.77	0.66
1:0A:139:GLN:OE1	46:AB:320:ARG:NH1	2.28	0.66
15:0X:42:LYS:HG2	45:LA:58:ALA:HB3	1.76	0.66
16:1B:437:ILE:HG13	16:1B:440:ILE:HD11	1.77	0.66
7:1G:77:ASN:HA	9:2N:29:LYS:HD3	1.77	0.66
22:2M:321:ALA:O	22:2M:338:ARG:NH1	2.28	0.66
16:3B:86:VAL:HA	16:3B:89:ILE:HG12	1.76	0.66
34:6R:182:ASP:OD1	34:6R:183:CYS:N	2.27	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AI:259:LEU:HD11	45:AI:316:SER:HB3	1.77	0.66
45:BI:241:SER:OG	45:BI:250:VAL:O	2.12	0.66
46:DD:324:LYS:HE3	45:DE:210:TYR:CG	2.31	0.66
46:DJ:109:GLY:HA2	46:DJ:147:MET:HE2	1.76	0.66
46:DN:282:ARG:NH2	46:DN:292:GLN:OE1	2.28	0.66
46:EB:42:LEU:HA	46:EB:45:GLU:HG3	1.76	0.66
45:EC:288:VAL:HA	45:EC:291:ILE:HG12	1.76	0.66
46:FL:67:ASP:O	46:FL:92:PHE:HA	1.94	0.66
46:GJ:262:ARG:NH1	46:GJ:421:GLU:OE2	2.27	0.66
45:HK:402:ARG:NH2	45:HK:415:GLU:OE1	2.28	0.66
45:II:210:TYR:CZ	45:II:227:LEU:HD11	2.29	0.66
45:KG:394:LYS:HZ3	46:KH:346:PRO:HG2	1.60	0.66
46:LF:334:GLN:HE22	46:LF:348:ASN:H	1.43	0.66
45:LG:88:HIS:NE2	45:MG:284:GLU:OE2	2.28	0.66
46:MB:49:VAL:HG21	46:MB:241:ARG:HG2	1.78	0.66
46:NL:318:ARG:HG2	46:NL:357:PRO:HA	1.77	0.66
46:QB:218:THR:HG23	46:QB:219:THR:HG23	1.76	0.66
46:QF:287:PRO:HA	46:QF:329:GLN:HE22	1.59	0.66
46:QJ:344:TRP:HB3	46:QJ:430:ALA:HB2	1.76	0.66
46:RD:139:LEU:HD22	46:RD:170:VAL:HG12	1.77	0.66
46:RH:371:SER:O	46:RH:422:TYR:OH	2.13	0.66
46:RJ:272:PRO:HG3	46:RJ:289:LEU:HD21	1.77	0.66
46:SH:107:THR:OG1	46:SH:108:GLU:OE1	2.13	0.66
45:TC:174:SER:HB2	45:TC:177:VAL:HB	1.76	0.66
46:TD:253:LEU:HA	46:TD:350:LYS:HZ1	1.59	0.66
46:UB:333:VAL:HA	46:UB:336:LYS:HZ2	1.59	0.66
45:UK:226:ASN:ND2	45:UK:367:ASP:OD2	2.28	0.66
46:VB:67:ASP:O	46:VB:92:PHE:HA	1.95	0.66
46:VF:285:THR:HB	46:VF:287:PRO:HD2	1.77	0.66
46:WH:48:ASN:O	46:WH:62:ARG:NH1	2.28	0.66
6:0F:32:ILE:HD11	45:DE:79:ARG:HB2	1.77	0.66
24:1P:287:ARG:HE	24:1P:290:LEU:HD12	1.58	0.66
24:1P:307:LYS:O	24:1P:311:ILE:HG12	1.95	0.66
15:1X:45:GLN:HG3	45:ME:372:MET:HE1	1.77	0.66
31:2I:36:ARG:HH22	45:FG:96:LYS:HB2	1.59	0.66
21:2L:904:LEU:HD23	21:2L:908:GLN:HG3	1.77	0.66
23:2O:215:LYS:O	23:2O:218:GLU:HG3	1.96	0.66
39:6F:11:THR:O	45:IE:96:LYS:NZ	2.29	0.66
46:AF:222:TYR:O	46:AF:226:ASN:ND2	2.24	0.66
45:BC:101:ASN:HA	45:BC:144:GLY:H	1.58	0.66
46:BH:209:ASP:OD1	46:BH:213:ARG:NH2	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BK:254:GLU:OE1	46:BN:99:ASN:ND2	2.28	0.66
45:CI:292:THR:HG21	45:CI:331:SER:HB3	1.78	0.66
46:DL:150:LEU:HB2	46:DL:154:LYS:HZ3	1.58	0.66
45:DM:288:VAL:HG11	45:DM:327:ASP:HB3	1.78	0.66
46:EJ:345:ILE:HA	45:EK:398:MET:HE1	1.77	0.66
46:FD:31:ASP:OD1	46:FD:35:THR:N	2.24	0.66
45:GG:338:LYS:HZ2	45:GG:340:THR:H	1.41	0.66
46:HL:7:ILE:HB	46:HL:135:ILE:HG12	1.77	0.66
46:IJ:372:THR:HA	46:IJ:422:TYR:HE1	1.60	0.66
45:IK:254:GLU:OE2	45:IK:257:THR:OG1	2.14	0.66
46:IN:101:TRP:CD1	46:IN:145:SER:HG	2.13	0.66
45:KE:407:TRP:HZ3	46:KF:255:VAL:HA	1.60	0.66
46:KN:52:ASN:OD1	46:KN:62:ARG:NH2	2.29	0.66
46:OB:222:TYR:O	46:OB:226:ASN:ND2	2.28	0.66
45:OK:136:LEU:HD13	45:OK:167:LEU:HB2	1.77	0.66
46:PJ:276:ARG:HA	46:PJ:279:GLN:HE22	1.60	0.66
46:RL:207:LEU:HB3	46:RL:225:LEU:HD22	1.76	0.66
45:RM:254:GLU:HG2	46:RN:98:GLY:HA2	1.76	0.66
46:RN:207:LEU:HB3	46:RN:225:LEU:HD22	1.75	0.66
46:SH:61:PRO:HG2	46:SH:85:PHE:HA	1.76	0.66
45:TC:136:LEU:HD22	45:TC:169:PHE:HE2	1.61	0.66
46:TH:67:ASP:O	46:TH:92:PHE:HA	1.96	0.66
46:UL:331:LEU:HD22	45:UM:176:GLN:HE22	1.60	0.66
46:VH:396:HIS:HA	46:VH:399:THR:HG22	1.78	0.66
45:WA:54:SER:HB3	45:WA:64:ARG:HE	1.61	0.66
3:0C:99:GLU:OE1	3:0C:102:ARG:NE	2.23	0.66
4:1D:11:VAL:HG21	45:CG:79:ARG:HD2	1.76	0.66
17:1F:149:PRO:HB2	46:HL:213:ARG:HH21	1.60	0.66
8:1H:420:GLN:HG3	8:1H:421:THR:H	1.61	0.66
21:1L:526:ARG:HD2	21:1L:529:GLU:HG2	1.76	0.66
4:2D:61:ILE:O	4:2D:65:ILE:HD12	1.96	0.66
4:2D:114:TYR:O	25:3R:516:GLN:NE2	2.28	0.66
5:2E:131:LYS:HA	5:2E:134:THR:HG22	1.77	0.66
27:3C:218:ARG:HD3	46:KB:320:ARG:HH11	1.60	0.66
25:3R:312:GLN:HG3	25:3R:313:PRO:HD3	1.76	0.66
12:3T:256:ASN:OD1	12:3T:257:GLN:N	2.28	0.66
37:5F:63:HIS:CD2	46:NF:58:ARG:HD3	2.30	0.66
35:5S:150:LEU:HB3	35:5S:189:VAL:HG11	1.76	0.66
34:7R:389:ASN:H	46:EB:276:ARG:HH22	1.43	0.66
45:AG:326:LYS:HD3	46:AJ:208:TYR:HD1	1.60	0.66
46:CJ:316:LEU:HD13	46:CJ:352:SER:HB2	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CM:33:ASP:HA	45:CM:85:GLN:HE21	1.58	0.66
46:DF:207:LEU:HB3	46:DF:225:LEU:HD22	1.76	0.66
45:DM:174:SER:OG	45:DM:206:ASN:ND2	2.28	0.66
45:EC:229:ARG:HG2	45:EC:363:VAL:HG11	1.76	0.66
45:EE:258:ASN:HD21	46:EF:178:THR:HG23	1.60	0.66
45:HE:56:THR:HG23	45:HE:58:ALA:H	1.61	0.66
46:HN:273:LEU:H	46:HN:292:GLN:HE22	1.43	0.66
46:JJ:372:THR:HA	46:JJ:422:TYR:HE2	1.60	0.66
45:JM:67:PHE:HD2	45:JM:92:LEU:HG	1.61	0.66
45:NK:292:THR:HG21	45:NK:331:SER:HB3	1.77	0.66
45:OE:298:PRO:HA	45:OE:301:MET:HE1	1.77	0.66
46:OH:207:LEU:HB3	46:OH:225:LEU:HD22	1.77	0.66
46:OL:309:ARG:NH2	46:OL:341:PHE:O	2.28	0.66
45:PE:5:ILE:HD11	45:PE:135:PHE:HE2	1.60	0.66
45:QG:211:ASP:HA	45:QG:214:ARG:HE	1.60	0.66
46:RB:99:ASN:HA	46:RB:142:GLY:H	1.60	0.66
46:RF:207:LEU:HB3	46:RF:225:LEU:HD22	1.77	0.66
46:RF:371:SER:O	46:RF:422:TYR:OH	2.13	0.66
46:RJ:289:LEU:HD13	46:RJ:365:VAL:HG23	1.75	0.66
45:RK:7:ILE:HG22	45:RK:66:VAL:HG12	1.77	0.66
46:SJ:375:GLN:HB2	46:SJ:379:LYS:HZ2	1.58	0.66
46:TB:21:TRP:HA	46:TB:24:ILE:HG22	1.76	0.66
46:TF:67:ASP:O	46:TF:92:PHE:HA	1.96	0.66
46:TL:97:ALA:HA	46:TL:103:LYS:HZ2	1.60	0.66
45:TM:121:ARG:HH11	45:TM:124:LYS:HE2	1.59	0.66
45:UI:258:ASN:HB3	45:UI:352:LYS:HD2	1.77	0.66
46:UL:238:CYS:SG	46:UL:318:ARG:NH1	2.68	0.66
45:VG:120:ASP:OD1	45:VG:123:ARG:NH2	2.29	0.66
46:WB:334:GLN:HA	46:WB:341:PHE:HE2	1.61	0.66
46:WJ:322:SER:OG	46:WJ:325:GLU:OE1	2.14	0.66
45:CE:211:ASP:HB3	45:CE:215:ARG:HH22	1.59	0.66
21:1L:751:ARG:NH2	46:BD:357:PRO:O	2.27	0.66
25:1R:277:ASP:OD1	25:1R:301:ARG:NH2	2.29	0.66
28:2F:94:HIS:ND1	45:HE:297:GLU:OE2	2.29	0.66
31:2I:77:GLY:HA2	45:FE:123:ARG:HD2	1.77	0.66
26:2W:260:ILE:HA	26:2W:263:PHE:CE1	2.30	0.66
13:3U:78:MET:HA	13:3U:103:VAL:HG22	1.76	0.66
10:4Q:126:ASP:OD1	10:4Q:130:ASN:ND2	2.28	0.66
36:5A:79:LEU:HD21	46:NB:245:GLN:HE22	1.60	0.66
45:AK:118:CYS:O	45:AK:122:ILE:HG12	1.96	0.66
46:CN:100:ASN:ND2	46:CN:401:GLU:OE1	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EG:55:GLU:HG3	45:EG:57:GLY:H	1.61	0.66
45:EK:140:SER:OG	47:EK:501:GTP:O2B	2.14	0.66
46:EL:83:GLN:O	46:FL:281:TYR:OH	2.13	0.66
45:EM:353:VAL:HG12	46:EN:177:ASP:HA	1.78	0.66
46:FD:67:ASP:O	46:FD:92:PHE:HA	1.94	0.66
46:GN:222:TYR:O	46:GN:226:ASN:ND2	2.25	0.66
45:HG:145:THR:OG1	47:HG:501:GTP:O1B	2.13	0.66
45:IA:292:THR:HG21	45:IA:331:SER:HB3	1.76	0.66
45:IK:326:LYS:NZ	46:IN:220:PRO:O	2.27	0.66
46:IN:148:GLY:O	46:IN:152:ILE:HG12	1.96	0.66
46:JB:278:SER:HA	46:JB:281:TYR:HB2	1.77	0.66
46:JD:316:LEU:HD13	46:JD:352:SER:HB2	1.76	0.66
45:JK:116:ASP:OD1	45:JK:117:LEU:N	2.28	0.66
45:KC:206:ASN:OD1	47:KC:501:GTP:N2	2.28	0.66
46:KD:49:VAL:HG11	46:KD:241:ARG:HG2	1.76	0.66
46:KD:309:ARG:NH2	46:KD:426:GLN:O	2.28	0.66
45:KK:157:LEU:HD11	45:KK:166:LYS:HD3	1.76	0.66
45:KK:269:LEU:HD13	45:KK:301:MET:HE1	1.76	0.66
45:LG:399:TYR:O	45:LG:402:ARG:NH1	2.28	0.66
46:MH:67:ASP:O	46:MH:92:PHE:HA	1.95	0.66
45:NI:80:THR:O	45:NI:84:ARG:NH2	2.28	0.66
45:OG:70:LEU:HD13	45:OG:95:GLY:HA3	1.76	0.66
46:OH:164:MET:HE1	46:OH:196:ALA:HA	1.76	0.66
45:OK:90:GLU:OE1	45:OK:121:ARG:NH1	2.28	0.66
45:OM:220:GLU:O	45:OM:221:ARG:NH1	2.29	0.66
46:PD:260:PHE:HB2	46:PD:263:LEU:HD13	1.77	0.66
46:PJ:164:MET:HB3	46:PJ:197:ASP:H	1.59	0.66
45:PK:326:LYS:HD3	46:PN:212:PHE:HZ	1.60	0.66
46:RF:215:LEU:HD11	46:RF:273:LEU:HD12	1.78	0.66
46:RL:31:ASP:OD2	46:RL:37:HIS:ND1	2.28	0.66
46:SL:238:CYS:HB3	46:SL:318:ARG:NH1	2.11	0.66
46:TH:321:MET:HE3	46:TH:363:MET:HE3	1.78	0.66
45:TI:141:VAL:HG11	45:TI:172:TYR:HD1	1.61	0.66
46:UB:375:GLN:HG3	46:UB:423:GLN:CD	2.20	0.66
46:WB:248:SER:HA	46:WB:252:LYS:HG3	1.76	0.66
46:WD:109:GLY:HA2	46:WD:147:MET:HE2	1.76	0.66
45:WK:145:THR:OG1	47:WK:501:GTP:O1B	2.13	0.66
8:0H:391:LYS:HD2	8:1H:65:ILE:HG23	1.78	0.66
9:1N:54:SER:HB3	9:1N:90:TRP:CH2	2.30	0.66
13:1U:187:VAL:HA	13:1U:225:ALA:HB1	1.76	0.66
13:1U:326:ILE:HD11	13:1U:336:PHE:HD2	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:2C:14:ARG:O	27:2C:17:THR:OG1	2.09	0.66
5:2E:50:ILE:HA	5:2E:53:LYS:HZ3	1.60	0.66
21:2L:390:GLN:HE21	21:2L:447:LEU:HD11	1.61	0.66
25:3R:43:PRO:O	25:3R:44:VAL:HG23	1.96	0.66
25:3R:415:VAL:HB	25:3R:441:LEU:HD12	1.77	0.66
12:3T:6:ILE:HD11	12:3T:185:LEU:HD22	1.77	0.66
12:3T:41:PHE:HZ	12:3T:171:PHE:HB2	1.60	0.66
13:3U:432:TRP:CE3	13:3U:441:MET:HE1	2.31	0.66
37:5H:71:PRO:HB2	37:5H:103:ARG:HB3	1.78	0.66
34:5R:20:HIS:O	34:5R:25:HIS:NE2	2.26	0.66
34:7R:556:ILE:HD11	34:7R:569:PHE:HA	1.78	0.66
45:AE:285:GLN:HE22	45:ME:56:THR:HA	1.60	0.66
45:AE:326:LYS:HZ3	46:AH:219:THR:HG22	1.60	0.66
45:BK:238:LEU:HA	45:BK:318:MET:HE1	1.77	0.66
45:CA:212:ILE:HD13	45:CA:215:ARG:HH12	1.60	0.66
46:CF:256:ASN:HB3	46:CF:350:LYS:HE3	1.78	0.66
46:CL:236:VAL:HG13	46:CL:237:THR:HG23	1.78	0.66
45:DA:313:MET:HG2	45:DA:381:SER:HA	1.77	0.66
46:DB:5:VAL:HG12	46:DB:62:ARG:HD3	1.78	0.66
46:EH:73:MET:HA	46:EH:76:VAL:HG12	1.78	0.66
45:EM:209:ILE:HD12	45:EM:227:LEU:HB3	1.77	0.66
46:HB:167:PHE:CE2	46:HB:233:MET:HG2	2.31	0.66
45:HC:64:ARG:NH1	45:HC:129:CYS:SG	2.69	0.66
46:HH:178:THR:HB	46:HH:181:GLU:HG3	1.77	0.66
46:HL:121:ARG:NH1	46:HL:158:GLU:OE2	2.29	0.66
46:ID:386:THR:OG1	46:ID:390:ARG:NH1	2.29	0.66
46:KL:322:SER:OG	46:KL:325:GLU:OE1	2.13	0.66
45:MA:288:VAL:HG11	45:MA:327:ASP:HB3	1.77	0.66
45:NG:221:ARG:NH1	46:NH:325:GLU:OE2	2.28	0.66
46:OJ:200:MET:SD	46:OJ:266:PHE:HB2	2.36	0.66
45:PA:2:ARG:HH22	46:PD:69:GLU:HG2	1.61	0.66
46:PL:389:PHE:HZ	46:PL:405:GLU:HG3	1.59	0.66
45:QA:33:ASP:HA	45:QA:85:GLN:HE21	1.61	0.66
46:QB:207:LEU:HD13	46:QB:225:LEU:HB3	1.77	0.66
45:QM:140:SER:OG	47:QM:501:GTP:O2B	2.13	0.66
46:RD:83:GLN:O	46:SD:281:TYR:OH	2.10	0.66
46:RF:166:THR:OG1	46:RF:199:CYS:SG	2.53	0.66
45:SC:170:THR:O	45:SC:204:LEU:HB2	1.96	0.66
46:SL:52:ASN:OD1	46:SL:62:ARG:NH2	2.29	0.66
46:TH:100:ASN:HD22	46:TH:103:LYS:HG2	1.61	0.66
46:UD:67:ASP:O	46:UD:92:PHE:HA	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UF:135:ILE:HG13	46:UF:152:ILE:HD11	1.77	0.66
45:VA:96:LYS:NZ	46:VB:129:CYS:SG	2.69	0.66
45:VI:292:THR:HG21	45:VI:331:SER:HB3	1.77	0.66
46:WB:260:PHE:HB2	46:WB:263:LEU:HD13	1.77	0.66
46:WD:173:PRO:HA	46:WD:176:SER:HB3	1.77	0.66
46:WL:1:MET:N	46:WL:3:GLU:OE2	2.27	0.66
13:0U:483:ARG:HB2	13:0U:485:MET:HE1	1.77	0.66
19:1J:367:ARG:HA	19:1J:405:LYS:HE3	1.78	0.66
24:1P:269:ALA:HA	45:TE:372:MET:HE1	1.78	0.66
5:2E:60:THR:OG1	5:2E:63:GLU:OE1	2.14	0.66
23:2O:336:ASP:OD1	23:2O:339:ARG:NH1	2.28	0.66
14:2V:22:ARG:HG3	14:2V:23:TYR:HD1	1.59	0.66
31:3I:273:GLY:H	46:FJ:92:PHE:HE2	1.44	0.66
21:3L:178:LEU:HD13	21:3L:181:LEU:HD11	1.76	0.66
25:3R:8:LEU:HB2	25:3R:11:PHE:CZ	2.31	0.66
11:3S:115:GLN:O	12:3T:16:ASN:ND2	2.28	0.66
36:5D:70:MET:O	46:NN:359:LYS:NZ	2.25	0.66
34:7R:49:ASN:OD1	34:7R:50:ASP:N	2.29	0.66
45:AE:326:LYS:HD3	46:AH:220:PRO:HD2	1.78	0.66
45:AI:55:GLU:HG3	45:AI:57:GLY:H	1.60	0.66
46:BD:83:GLN:O	46:CB:281:TYR:OH	2.12	0.66
46:CB:290:THR:HA	46:CB:293:MET:HG2	1.77	0.66
45:CC:324:VAL:HG12	45:CC:326:LYS:HG2	1.77	0.66
46:CF:135:ILE:HG13	46:CF:152:ILE:HD11	1.78	0.66
46:FH:309:ARG:NH2	46:FH:426:GLN:O	2.28	0.66
45:FM:27:GLU:HB2	45:FM:361:THR:HG21	1.77	0.66
45:FM:51:THR:O	45:FM:64:ARG:NH1	2.28	0.66
46:GD:382:ALA:HB2	46:GD:415:MET:HE1	1.78	0.66
45:HM:100:ALA:HA	46:HN:252:LYS:HG2	1.78	0.66
45:JG:292:THR:HG21	45:JG:331:SER:HB2	1.78	0.66
46:LF:334:GLN:NE2	46:LF:348:ASN:OD1	2.29	0.66
45:LK:2:ARG:HH21	46:LN:71:GLY:HA2	1.61	0.66
45:MG:260:VAL:HB	46:MJ:397:TRP:CZ2	2.30	0.66
46:NL:68:LEU:HB3	46:NL:96:GLY:HA2	1.78	0.66
45:QC:292:THR:HG21	45:QC:331:SER:HB2	1.78	0.66
45:QG:15:GLN:NE2	47:QG:501:GTP:O6	2.28	0.66
45:QG:244:PHE:HB2	45:QG:356:ASN:HD21	1.59	0.66
46:TB:91:VAL:HG21	46:TB:116:VAL:HB	1.76	0.66
45:TC:399:TYR:O	45:TC:402:ARG:NH2	2.28	0.66
46:TH:186:THR:HA	46:TH:415:MET:HE1	1.78	0.66
45:UG:260:VAL:HB	46:UH:397:TRP:CZ2	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VH:67:ASP:O	46:VH:92:PHE:HA	1.96	0.66
4:0D:6:ARG:HD3	46:CB:41:ASP:HB3	1.77	0.66
7:0G:164:PRO:HA	26:2W:185:PHE:HB3	1.77	0.66
13:0U:209:TYR:HD2	13:0U:252:ILE:HD12	1.61	0.66
21:1L:676:ASN:OD1	21:1L:677:ILE:N	2.28	0.66
23:2O:203:GLN:HG2	23:2O:207:HIS:HE1	1.60	0.66
13:2U:31:ILE:HG22	13:2U:40:VAL:HG12	1.78	0.66
16:3B:220:GLN:HA	45:KG:221:ARG:HB2	1.77	0.66
37:5F:157:ARG:NH2	46:NH:37:HIS:HA	2.11	0.66
45:AA:328:VAL:HG11	45:AA:353:VAL:HG21	1.78	0.66
45:AM:288:VAL:HG11	45:AM:327:ASP:HB3	1.77	0.66
45:CK:402:ARG:NH2	45:CK:415:GLU:OE2	2.29	0.66
45:DK:326:LYS:NZ	46:DL:220:PRO:O	2.29	0.66
45:EK:80:THR:O	45:EK:84:ARG:NH2	2.27	0.66
45:EM:140:SER:OG	47:EM:501:GTP:O2B	2.14	0.66
45:FI:33:ASP:O	45:FI:60:LYS:NZ	2.29	0.66
46:ID:396:HIS:HA	46:ID:399:THR:HG22	1.77	0.66
45:KC:11:GLN:NE2	46:KD:245:GLN:O	2.29	0.66
46:LD:200:MET:HG2	46:LD:266:PHE:HB2	1.77	0.66
46:ND:178:THR:HG22	46:ND:180:VAL:H	1.60	0.66
46:NH:67:ASP:O	46:NH:92:PHE:HA	1.96	0.66
46:PB:314:SER:HA	46:PB:350:LYS:HB2	1.77	0.66
46:PD:11:GLN:HA	46:PD:14:ASN:HD22	1.61	0.66
46:QB:266:PHE:HE1	46:QB:370:ASN:HB2	1.61	0.66
46:QB:293:MET:HE2	46:QB:365:VAL:HG12	1.77	0.66
45:RE:206:ASN:OD1	47:RE:501:GTP:N2	2.27	0.66
46:RN:273:LEU:H	46:RN:292:GLN:HE22	1.44	0.66
45:TK:108:TYR:O	45:TK:112:LYS:NZ	2.29	0.66
45:UK:101:ASN:HA	45:UK:144:GLY:H	1.60	0.66
46:UL:322:SER:OG	46:UL:325:GLU:OE2	2.12	0.66
46:VH:94:GLN:HG2	46:VH:95:THR:HG23	1.78	0.66
45:WC:244:PHE:HB2	45:WC:356:ASN:HD21	1.60	0.66
46:WN:48:ASN:O	46:WN:62:ARG:NH1	2.27	0.66
6:0F:75:ARG:NH2	46:ED:357:PRO:O	2.29	0.66
16:1B:447:ALA:HA	16:1B:450:LEU:HD12	1.78	0.66
12:1T:197:GLN:HG3	12:1T:198:ASP:H	1.61	0.66
20:2K:438:HIS:O	20:2K:442:ARG:HG2	1.96	0.66
21:2L:545:GLU:HG3	45:BM:278:ALA:HB3	1.77	0.66
10:2Q:77:VAL:HG23	10:2Q:131:GLN:HE21	1.61	0.66
16:3B:111:ARG:NH2	16:3B:115:LYS:O	2.29	0.66
13:3U:238:SER:OG	13:3U:258:ASP:OD2	2.13	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:3U:458:LYS:HZ2	13:3U:460:ASN:HB2	1.60	0.66
36:5C:167:LYS:NZ	45:NK:278:ALA:O	2.27	0.66
37:5G:113:LEU:HD11	45:NI:84:ARG:HE	1.61	0.66
10:5Q:74:PRO:HD2	10:5Q:169:ASP:HA	1.78	0.66
34:5R:573:LEU:HD21	34:5R:580:LEU:HD13	1.76	0.66
46:AH:309:ARG:NH2	46:AH:426:GLN:O	2.24	0.66
46:AL:32:PRO:HA	46:AL:84:LEU:HD11	1.78	0.66
45:BE:328:VAL:HG11	45:BE:353:VAL:HG21	1.76	0.66
45:BM:71:GLU:OE2	46:BN:2:ARG:NH2	2.29	0.66
46:DB:100:ASN:ND2	46:DB:401:GLU:OE1	2.29	0.66
46:DL:73:MET:HA	46:DL:76:VAL:HG12	1.78	0.66
46:EJ:209:ASP:OD1	46:EJ:213:ARG:NE	2.29	0.66
46:FD:42:LEU:HA	46:FD:45:GLU:HG3	1.78	0.66
46:GN:318:ARG:HE	46:GN:358:PRO:HG3	1.61	0.66
45:HC:402:ARG:NH2	45:HC:415:GLU:OE1	2.29	0.66
45:HK:288:VAL:HG11	45:HK:327:ASP:HB3	1.77	0.66
45:IC:288:VAL:HG11	45:IC:327:ASP:HB3	1.77	0.66
47:IG:501:GTP:O1G	46:IH:252:LYS:NZ	2.29	0.66
45:JE:181:VAL:N	46:JF:350:LYS:HZ3	1.94	0.66
45:JK:222:PRO:HD2	46:JL:324:LYS:NZ	2.11	0.66
45:KA:75:ILE:HD11	45:KA:92:LEU:HB3	1.78	0.66
46:KB:267:MET:HE1	46:KB:301:CYS:HB2	1.78	0.66
46:KL:73:MET:HA	46:KL:76:VAL:HG12	1.76	0.66
45:LI:9:VAL:HG12	45:LI:68:LEU:HB2	1.76	0.66
45:LK:325:PRO:HA	45:LK:328:VAL:HG12	1.78	0.66
45:MC:224:TYR:HE2	46:MD:246:LEU:HD11	1.61	0.66
46:MH:96:GLY:O	46:MH:103:LYS:NZ	2.29	0.66
45:NA:210:TYR:HE2	46:NB:324:LYS:HB2	1.61	0.66
46:NF:178:THR:HB	46:NF:181:GLU:HG3	1.78	0.66
45:OA:101:ASN:HA	45:OA:144:GLY:H	1.61	0.66
45:OE:1:MET:SD	46:OH:94:GLN:NE2	2.69	0.66
45:OK:169:PHE:HA	45:OK:202:VAL:HG22	1.78	0.66
45:PE:298:PRO:HA	45:PE:301:MET:HE3	1.77	0.66
46:PF:164:MET:HB3	46:PF:197:ASP:H	1.58	0.66
45:PG:89:PRO:HG2	45:QG:280:LYS:HD2	1.77	0.66
46:PJ:73:MET:HE1	46:PJ:92:PHE:HB3	1.76	0.66
46:PN:119:VAL:O	46:PN:122:LYS:HG2	1.95	0.66
45:QK:121:ARG:HH22	45:QK:124:LYS:HG2	1.60	0.66
45:SC:389:SER:O	45:SC:393:HIS:ND1	2.28	0.66
45:UI:56:THR:HA	45:VG:285:GLN:HE22	1.60	0.66
46:WN:5:VAL:HG12	46:WN:62:ARG:HD3	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:0E:5:LEU:HD21	5:0E:70:CYS:HB2	1.77	0.66
14:0V:4:GLU:HG3	13:3U:391:PRO:HD2	1.77	0.66
4:1D:46:PRO:HG3	46:DF:44:LEU:HD21	1.78	0.66
21:1L:289:PHE:HE1	45:BG:221:ARG:HE	1.44	0.66
13:1U:405:ILE:HD11	13:1U:426:GLU:HG3	1.78	0.66
1:2A:130:SER:O	1:2A:132:ASP:N	2.26	0.66
5:2E:9:ILE:HA	5:2E:12:VAL:HG22	1.77	0.66
21:2L:575:LYS:HG3	21:2L:576:GLU:H	1.61	0.66
9:2N:162:CYS:SG	46:KB:276:ARG:NH1	2.63	0.66
14:2V:70:THR:OG1	46:MF:337:ASN:ND2	2.29	0.66
31:3I:216:ARG:NH2	46:FL:128:ASP:HA	2.11	0.66
23:3O:337:PHE:HD1	46:UJ:362:LYS:HZ1	1.42	0.66
10:3Q:72:LYS:NZ	10:3Q:149:ILE:O	2.26	0.66
11:3S:113:PRO:O	11:3S:115:GLN:NE2	2.29	0.66
30:4H:205:GLN:HE22	45:AK:82:THR:N	1.94	0.66
46:AF:377:MET:SD	46:AF:380:ARG:NH1	2.64	0.66
45:BA:161:TYR:HB3	45:BA:164:LYS:HE2	1.78	0.66
45:BC:50:ASN:O	45:BC:64:ARG:NH1	2.28	0.66
45:CA:261:PRO:HG2	45:CA:313:MET:HE3	1.75	0.66
45:DM:209:ILE:HG13	45:DM:302:MET:HG3	1.78	0.66
45:GE:219:ILE:HG22	45:GE:221:ARG:H	1.61	0.66
46:GH:67:ASP:O	46:GH:92:PHE:HA	1.96	0.66
46:IF:67:ASP:O	46:IF:92:PHE:HA	1.95	0.66
45:II:74:VAL:HG23	45:II:75:ILE:HD12	1.77	0.66
45:IM:71:GLU:OE2	46:IN:2:ARG:NH2	2.29	0.66
45:JG:96:LYS:NZ	46:JH:1:MET:SD	2.67	0.66
46:KJ:350:LYS:NZ	46:KJ:352:SER:OG	2.28	0.66
45:KM:399:TYR:OH	45:KM:415:GLU:OE2	2.14	0.66
46:LB:295:ASP:HB3	46:LB:298:ASN:HB2	1.77	0.66
46:MH:222:TYR:O	46:MH:226:ASN:ND2	2.23	0.66
46:NF:135:ILE:HD12	46:NF:152:ILE:HD11	1.77	0.66
46:NL:102:ALA:HB2	46:NL:403:MET:HE2	1.76	0.66
45:OE:210:TYR:HE2	46:OF:324:LYS:HA	1.61	0.66
45:OI:121:ARG:HD2	45:OI:124:LYS:NZ	2.10	0.66
45:OM:210:TYR:CD1	46:ON:324:LYS:HE3	2.31	0.66
46:PF:183:TYR:HA	46:PF:385:PHE:HE1	1.61	0.66
45:PM:224:TYR:HA	45:PM:227:LEU:HD12	1.77	0.66
45:QI:70:LEU:HD13	45:QI:95:GLY:HA3	1.78	0.66
46:RB:2:ARG:HH12	45:RC:72:PRO:HD2	1.61	0.66
46:RD:121:ARG:NH2	46:RD:158:GLU:OE2	2.28	0.66
45:RI:30:ILE:HA	45:RI:36:MET:HE1	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RK:174:SER:HB3	45:RK:177:VAL:O	1.94	0.66
45:TM:244:PHE:HB2	45:TM:356:ASN:HD21	1.60	0.66
46:TN:273:LEU:H	46:TN:292:GLN:HE22	1.44	0.66
46:UB:74:ASP:HA	46:UB:77:ARG:HG2	1.77	0.66
46:VN:8:GLN:NE2	46:VN:136:THR:OG1	2.29	0.66
46:WB:47:ILE:HD12	46:WB:59:TYR:HE1	1.59	0.66
45:WK:53:PHE:O	45:WK:64:ARG:NH1	2.28	0.66
46:WN:67:ASP:O	46:WN:92:PHE:HA	1.95	0.66
46:WN:330:MET:HB3	46:WN:349:ILE:HD12	1.77	0.66
5:0E:29:ARG:NH2	5:0E:150:PHE:O	2.20	0.65
9:1N:150:LEU:HD12	9:1N:173:ILE:HG22	1.77	0.65
9:1N:156:HIS:CD2	9:1N:214:THR:HG22	2.31	0.65
5:2E:121:ARG:O	34:5R:579:ASN:ND2	2.20	0.65
24:2P:386:GLN:HA	24:2P:389:LEU:HG	1.78	0.65
13:3U:106:GLN:HB3	13:3U:120:LEU:HD23	1.76	0.65
10:4Q:15:TYR:CE2	10:4Q:17:ILE:HB	2.30	0.65
34:4R:339:MET:HE3	34:4R:346:ASP:HB3	1.78	0.65
45:AE:239:THR:HG23	45:AE:243:ARG:HH12	1.61	0.65
45:BC:33:ASP:HA	45:BC:85:GLN:HE21	1.61	0.65
46:DB:276:ARG:NH1	46:DB:279:GLN:OE1	2.29	0.65
46:DD:113:ILE:HG21	46:DD:150:LEU:HD22	1.76	0.65
46:EH:135:ILE:HG13	46:EH:152:ILE:HD11	1.78	0.65
45:EM:317:MET:O	45:EM:353:VAL:HA	1.95	0.65
45:EM:352:LYS:HE2	46:EN:178:THR:HA	1.78	0.65
46:EN:213:ARG:NH2	46:EN:297:LYS:O	2.21	0.65
46:FD:161:ASP:O	46:FD:251:ARG:NH2	2.27	0.65
45:GC:76:ASP:OD1	45:GC:79:ARG:NH2	2.29	0.65
45:GE:221:ARG:HH22	46:GF:321:MET:HB3	1.61	0.65
45:HK:71:GLU:OE1	46:HL:247:ASN:ND2	2.28	0.65
46:HN:226:ASN:HD21	49:HN:501:GDP:HN1	1.42	0.65
45:IK:242:LEU:HD21	45:IK:251:ASP:HA	1.78	0.65
46:JB:215:LEU:HD21	46:JB:273:LEU:HD12	1.77	0.65
45:KE:251:ASP:HB3	45:KE:254:GLU:HG2	1.78	0.65
46:KF:238:CYS:SG	46:KF:318:ARG:NH1	2.69	0.65
45:LA:275:ILE:HD12	45:LA:368:LEU:HD11	1.77	0.65
46:LB:334:GLN:NE2	46:LB:348:ASN:OD1	2.29	0.65
46:NB:313:ALA:HB1	46:NB:367:PHE:HE1	1.61	0.65
45:OA:212:ILE:HD11	45:OA:300:ASN:HA	1.78	0.65
46:PD:221:THR:HG23	46:PD:224:ASP:H	1.61	0.65
46:PH:49:VAL:HG21	46:PH:241:ARG:HG2	1.77	0.65
46:RJ:194:GLU:OE2	46:RJ:414:ASN:ND2	2.24	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TL:258:ILE:HB	45:TM:407:TRP:CZ2	2.31	0.65
45:UK:352:LYS:NZ	46:UL:178:THR:HA	2.10	0.65
45:WE:292:THR:HG21	45:WE:331:SER:HB3	1.76	0.65
46:WH:198:GLU:HB3	46:WH:200:MET:HE3	1.78	0.65
45:WK:51:THR:HG21	45:WK:243:ARG:HB3	1.77	0.65
45:WK:176:GLN:HG2	45:WK:177:VAL:HG23	1.78	0.65
46:WN:282:ARG:HH22	46:WN:289:LEU:HD22	1.61	0.65
8:0H:407:LEU:HD13	8:0H:427:PHE:HB2	1.78	0.65
24:1P:388:THR:O	24:1P:392:LYS:HG2	1.97	0.65
11:1S:178:LEU:HD21	11:1S:233:ILE:HG13	1.78	0.65
9:2N:84:VAL:HG13	9:2N:108:LYS:HG2	1.78	0.65
9:2N:120:ARG:NH1	9:2N:124:ASP:OD1	2.29	0.65
25:2R:259:LEU:HB2	25:2R:273:TYR:HB3	1.78	0.65
27:3C:277:LEU:O	27:3C:279:ARG:NH1	2.29	0.65
33:4F:69:LYS:O	33:4F:70:VAL:HG22	1.96	0.65
37:5E:201:THR:HA	37:5E:204:LYS:HE2	1.78	0.65
37:5H:61:LYS:NZ	46:ON:276:ARG:HH21	1.95	0.65
34:5R:455:VAL:HB	34:5R:471:LEU:HB2	1.77	0.65
40:6G:95:VAL:O	40:6G:99:HIS:ND1	2.30	0.65
45:AM:104:ALA:HB2	45:AM:413:MET:HE2	1.77	0.65
46:BD:32:PRO:O	46:BD:83:GLN:NE2	2.29	0.65
46:CJ:256:ASN:HD22	46:CJ:350:LYS:HD2	1.60	0.65
46:DJ:257:LEU:HD11	46:DJ:314:SER:HB2	1.77	0.65
46:DN:49:VAL:O	46:DN:62:ARG:NH2	2.29	0.65
46:EB:54:ALA:HA	46:FB:283:ALA:HB2	1.78	0.65
45:EM:311:LYS:HE2	45:EM:342:GLN:HG3	1.77	0.65
46:JJ:309:ARG:NH2	46:JJ:426:GLN:O	2.29	0.65
45:KE:292:THR:HG21	45:KE:331:SER:HB2	1.77	0.65
45:LG:181:VAL:HG13	45:LG:182:VAL:HG13	1.79	0.65
45:MM:259:LEU:HD21	45:MM:316:SER:HB2	1.78	0.65
45:NA:265:ILE:HG22	45:NA:380:ASN:HD21	1.61	0.65
45:NI:292:THR:HG21	45:NI:331:SER:HB3	1.78	0.65
45:OA:121:ARG:HD2	45:OA:124:LYS:HZ1	1.61	0.65
46:OB:178:THR:HB	46:OB:181:GLU:HG3	1.78	0.65
45:OE:203:MET:HG3	45:OE:384:ILE:HD11	1.78	0.65
45:PA:211:ASP:HA	45:PA:214:ARG:HG2	1.78	0.65
45:PC:326:LYS:HZ2	46:PF:219:THR:HA	1.61	0.65
46:PN:194:GLU:HA	46:PN:262:ARG:HH12	1.61	0.65
45:QC:101:ASN:HA	45:QC:144:GLY:H	1.61	0.65
45:RG:225:THR:O	45:RG:229:ARG:HG3	1.96	0.65
46:SB:136:THR:O	46:SB:137:HIS:ND1	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SJ:112:LEU:HD22	46:SJ:147:MET:HE1	1.78	0.65
46:UJ:320:ARG:HH22	45:UK:221:ARG:HH21	1.44	0.65
46:UJ:326:VAL:O	46:UJ:330:MET:HG2	1.96	0.65
46:UL:46:ARG:NH2	45:UM:76:ASP:OD2	2.28	0.65
45:UM:60:LYS:NZ	45:UM:61:HIS:O	2.29	0.65
46:VH:48:ASN:O	46:VH:62:ARG:NH1	2.28	0.65
45:VK:254:GLU:O	45:VK:258:ASN:ND2	2.29	0.65
45:WI:315:CYS:HB3	45:WI:377:MET:HE1	1.79	0.65
13:0U:194:ARG:HH11	13:0U:214:THR:HG21	1.61	0.65
19:1J:198:ARG:HG3	45:IG:372:MET:SD	2.36	0.65
21:1L:661:VAL:HG13	21:1L:665:GLN:HB2	1.77	0.65
29:2G:47:LYS:HG2	29:2G:50:ARG:HH21	1.61	0.65
23:3O:456:LEU:HD11	46:UF:276:ARG:HH21	1.61	0.65
25:3R:315:GLN:HG3	46:CL:276:ARG:HG2	1.77	0.65
12:3T:1:MET:HB3	12:3T:5:SER:HB3	1.79	0.65
30:4H:205:GLN:HE22	45:AK:82:THR:H	1.42	0.65
45:AC:292:THR:HG21	45:AC:331:SER:HB3	1.78	0.65
46:BN:116:VAL:O	46:BN:120:VAL:HG23	1.97	0.65
45:CG:180:ALA:HB3	45:CG:183:GLU:HG3	1.78	0.65
46:DF:67:ASP:O	46:DF:92:PHE:HA	1.97	0.65
46:DH:207:LEU:HB3	46:DH:225:LEU:HD22	1.77	0.65
46:DJ:83:GLN:O	46:EJ:281:TYR:OH	2.14	0.65
46:EB:289:LEU:HD13	46:EB:365:VAL:HG23	1.76	0.65
45:GE:101:ASN:HA	45:GE:144:GLY:H	1.61	0.65
46:GJ:263:LEU:HD22	46:GJ:422:TYR:HD1	1.62	0.65
45:JI:97:GLU:OE1	45:JI:105:ARG:NH2	2.26	0.65
45:JI:241:SER:OG	45:JI:249:ASN:OD1	2.15	0.65
45:JM:63:PRO:HG2	45:JM:87:PHE:HA	1.77	0.65
45:KM:15:GLN:NE2	47:KM:501:GTP:O6	2.28	0.65
45:KM:395:PHE:HB3	45:KM:422:ARG:HH21	1.61	0.65
45:LC:325:PRO:HA	45:LC:328:VAL:HG12	1.79	0.65
45:MC:406:HIS:HA	45:MC:409:VAL:HG12	1.78	0.65
46:MF:257:LEU:HD21	46:MF:314:SER:HB2	1.77	0.65
45:MI:174:SER:HB3	45:MI:177:VAL:O	1.96	0.65
45:OC:207:GLU:HA	45:OC:210:TYR:CD1	2.32	0.65
46:OJ:10:GLY:O	46:OJ:14:ASN:ND2	2.30	0.65
45:OM:399:TYR:O	45:OM:402:ARG:NH1	2.30	0.65
46:ON:328:GLU:O	46:ON:332:ASN:ND2	2.29	0.65
45:PC:101:ASN:HA	45:PC:144:GLY:H	1.59	0.65
46:PF:293:MET:HE2	46:PF:367:PHE:HB2	1.79	0.65
46:QF:346:PRO:O	45:QG:394:LYS:NZ	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QJ:318:ARG:HB2	46:QJ:364:ALA:HB3	1.78	0.65
45:RG:119:LEU:HD13	45:RG:122:ILE:HD11	1.78	0.65
45:SC:288:VAL:HG11	45:SC:327:ASP:HB3	1.77	0.65
45:SI:248:LEU:HB2	45:SI:355:ILE:HG12	1.79	0.65
45:SM:33:ASP:HA	45:SM:85:GLN:HE21	1.61	0.65
46:TH:68:LEU:HB3	46:TH:96:GLY:HA2	1.78	0.65
45:TM:132:LEU:HD22	45:TM:164:LYS:HD2	1.78	0.65
46:UL:372:THR:HA	46:UL:422:TYR:HE2	1.60	0.65
46:VF:3:GLU:OE2	46:VF:62:ARG:HD2	1.97	0.65
46:VF:49:VAL:HG21	46:VF:241:ARG:HG2	1.77	0.65
45:VK:210:TYR:OH	46:VL:323:THR:OG1	2.10	0.65
45:WC:129:CYS:SG	45:WC:130:THR:N	2.69	0.65
46:WL:309:ARG:NH2	46:WL:426:GLN:O	2.27	0.65
45:WM:51:THR:O	45:WM:64:ARG:NH2	2.29	0.65
11:0S:125:LYS:O	11:0S:222:ARG:NH1	2.25	0.65
16:1B:129:ALA:O	16:1B:134:ARG:NH1	2.30	0.65
12:1T:4:ASP:HA	12:1T:7:PHE:HD1	1.59	0.65
26:1W:247:ARG:HH22	26:1W:251:ARG:HH22	1.44	0.65
21:2L:653:TRP:HH2	45:CM:219:ILE:HG23	1.62	0.65
9:2N:48:GLU:HB3	9:2N:52:LYS:HZ3	1.61	0.65
9:2N:158:THR:HG22	9:2N:160:GLN:H	1.62	0.65
23:2O:124:SER:OG	23:2O:128:ARG:NH1	2.30	0.65
23:2O:385:GLN:OE1	23:2O:389:LYS:NZ	2.30	0.65
10:2Q:78:MET:HE3	10:2Q:132:ILE:HD11	1.79	0.65
10:3Q:1:MET:H3	10:3Q:3:LYS:HG2	1.60	0.65
45:AE:90:GLU:HG3	45:AE:121:ARG:HH22	1.62	0.65
46:AN:67:ASP:OD1	46:AN:68:LEU:N	2.30	0.65
45:CA:215:ARG:NH2	45:CA:300:ASN:OD1	2.30	0.65
46:CB:67:ASP:O	46:CB:92:PHE:HA	1.96	0.65
46:CF:290:THR:HA	46:CF:293:MET:HG2	1.79	0.65
46:CH:11:GLN:HA	46:CH:72:THR:HG21	1.78	0.65
45:DG:175:PRO:HG2	45:DG:304:LYS:HD2	1.79	0.65
46:EH:271:ALA:HB3	46:EH:365:VAL:HB	1.78	0.65
45:GE:325:PRO:C	45:GE:326:LYS:HE2	2.22	0.65
46:HB:73:MET:HA	46:HB:76:VAL:HG12	1.77	0.65
45:HE:76:ASP:OD2	46:HF:46:ARG:NH2	2.30	0.65
46:IB:139:LEU:HD22	46:IB:170:VAL:HG12	1.78	0.65
45:IK:239:THR:HG22	45:IK:243:ARG:HE	1.61	0.65
45:IM:187:SER:O	45:IM:191:THR:HG23	1.96	0.65
45:JE:221:ARG:HA	46:JF:324:LYS:HZ1	1.61	0.65
45:JM:195:LEU:HD12	45:JM:196:GLU:HG2	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KD:22:GLU:HG2	46:KD:81:PHE:HD1	1.62	0.65
46:KF:16:ILE:HD12	46:KF:229:VAL:HG11	1.79	0.65
46:KH:51:TYR:HB3	46:KH:59:TYR:HB3	1.79	0.65
46:KN:3:GLU:HG3	46:KN:62:ARG:NH1	2.12	0.65
45:LI:284:GLU:HG3	45:LI:286:LEU:HD22	1.78	0.65
45:MC:116:ASP:OD2	45:MC:117:LEU:N	2.29	0.65
45:MK:27:GLU:OE1	45:MK:243:ARG:NH1	2.29	0.65
46:NB:314:SER:HA	46:NB:350:LYS:HB2	1.77	0.65
46:ND:19:LYS:HE2	46:ND:22:GLU:OE2	1.97	0.65
46:NL:317:PHE:HE2	46:NL:326:VAL:HG13	1.62	0.65
45:NM:91:GLN:HG3	45:NM:121:ARG:HE	1.61	0.65
46:OJ:262:ARG:NH1	46:OJ:421:GLU:OE1	2.29	0.65
46:PD:100:ASN:ND2	46:PD:401:GLU:OE1	2.29	0.65
45:PE:9:VAL:HG12	45:PE:68:LEU:HB3	1.76	0.65
46:QB:150:LEU:HB2	46:QB:154:LYS:HZ3	1.60	0.65
45:RA:224:TYR:HD1	45:RA:227:LEU:HD12	1.62	0.65
45:RC:360:PRO:O	45:RC:370:LYS:NZ	2.26	0.65
46:RD:268:ILE:HG13	46:RD:300:MET:HE2	1.78	0.65
46:SL:198:GLU:OE2	46:SL:200:MET:HE3	1.96	0.65
46:TN:66:MET:HG3	46:TN:147:MET:HE3	1.77	0.65
45:UG:101:ASN:HA	45:UG:144:GLY:H	1.61	0.65
46:VD:128:ASP:OD1	46:VD:129:CYS:N	2.30	0.65
45:VE:70:LEU:HD13	45:VE:95:GLY:HA3	1.78	0.65
45:VG:70:LEU:HD13	45:VG:95:GLY:HA3	1.78	0.65
45:VI:175:PRO:HA	45:VI:390:ARG:CZ	2.26	0.65
46:VL:378:PHE:HB3	46:VL:415:MET:HE1	1.78	0.65
46:WF:189:VAL:HG13	46:WF:415:MET:HE3	1.78	0.65
45:CE:292:THR:HG21	45:CE:331:SER:HB3	1.77	0.65
7:0G:155:PRO:HB2	45:KM:29:GLY:HA2	1.78	0.65
1:1A:23:HIS:CE1	1:1A:25:LYS:HD3	2.32	0.65
8:1H:29:TYR:CE2	33:4F:168:GLU:HB3	2.32	0.65
19:1J:342:LYS:NZ	46:IN:276:ARG:HB3	2.10	0.65
21:1L:62:THR:HG23	21:1L:94:ASP:HB3	1.79	0.65
21:1L:683:ASN:OD1	21:1L:684:ALA:N	2.30	0.65
12:1T:1:MET:HB2	12:1T:185:LEU:HD23	1.79	0.65
13:1U:555:LYS:HE3	13:1U:576:GLY:H	1.60	0.65
16:2B:51:LYS:O	16:2B:54:SER:OG	2.11	0.65
31:2I:118:LYS:NZ	45:GC:339:ARG:O	2.26	0.65
13:2U:342:THR:OG1	13:2U:360:VAL:O	2.14	0.65
13:2U:403:ALA:O	13:2U:430:ARG:NH1	2.28	0.65
13:2U:521:ASP:OD1	13:2U:523:GLN:NE2	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:3I:217:ASN:OD1	45:FK:96:LYS:NZ	2.29	0.65
13:3U:88:ASP:HB2	13:3U:95:MET:SD	2.37	0.65
34:5R:188:LYS:HG2	34:5R:198:MET:HE1	1.78	0.65
46:AN:306:ARG:HB2	46:AN:340:TYR:HE1	1.61	0.65
45:BE:276:ILE:HD12	45:BE:281:ALA:HA	1.78	0.65
46:DH:268:ILE:HG22	46:DH:368:VAL:HG12	1.77	0.65
45:EG:338:LYS:NZ	45:EG:340:THR:H	1.94	0.65
45:GG:76:ASP:OD2	46:GH:46:ARG:NH2	2.30	0.65
46:GH:320:ARG:O	46:GH:321:MET:HE2	1.96	0.65
45:HK:88:HIS:NE2	45:HK:90:GLU:HG2	2.12	0.65
45:IC:27:GLU:OE1	45:IC:243:ARG:NH1	2.28	0.65
45:IE:271:SER:OG	45:IE:301:MET:SD	2.54	0.65
45:JG:164:LYS:O	45:JG:166:LYS:NZ	2.30	0.65
45:JI:292:THR:HG23	45:JI:317:MET:HE1	1.77	0.65
45:JK:140:SER:OG	47:JK:501:GTP:O2B	2.15	0.65
46:KF:31:ASP:OD1	46:KF:35:THR:N	2.29	0.65
45:LK:288:VAL:HA	45:LK:291:ILE:HG12	1.76	0.65
46:MF:262:ARG:NH1	46:MF:421:GLU:OE1	2.28	0.65
45:OE:56:THR:HG23	45:OE:58:ALA:H	1.62	0.65
46:ON:52:ASN:OD1	46:ON:62:ARG:NH2	2.30	0.65
45:PA:320:ARG:HG3	45:PA:356:ASN:HB3	1.79	0.65
45:PE:230:LEU:HB3	45:PE:302:MET:HE1	1.79	0.65
46:PH:83:GLN:O	46:QF:281:TYR:OH	2.14	0.65
45:PI:352:LYS:HZ3	46:PL:179:VAL:H	1.43	0.65
45:PK:108:TYR:O	45:PK:112:LYS:NZ	2.29	0.65
46:QB:257:LEU:HD11	46:QB:314:SER:HB2	1.79	0.65
45:QI:339:ARG:O	45:QI:342:GLN:NE2	2.28	0.65
46:RB:100:ASN:ND2	46:RB:401:GLU:OE1	2.29	0.65
45:SE:101:ASN:HA	45:SE:144:GLY:H	1.61	0.65
45:SM:406:HIS:HA	45:SM:409:VAL:HG12	1.79	0.65
45:TC:258:ASN:HD21	46:TD:178:THR:HG23	1.60	0.65
45:TC:392:ASP:OD2	45:TC:422:ARG:NH1	2.30	0.65
46:TD:377:MET:SD	46:TD:380:ARG:NH1	2.70	0.65
45:TE:271:SER:HA	45:TE:302:MET:HG2	1.79	0.65
46:TH:235:GLY:HA3	46:TH:366:THR:HG21	1.78	0.65
46:TJ:55:THR:HG23	46:UJ:283:ALA:HA	1.79	0.65
46:TL:100:ASN:ND2	46:TL:401:GLU:OE2	2.24	0.65
45:UC:55:GLU:HG3	45:UC:57:GLY:H	1.61	0.65
46:VB:4:ILE:HD11	46:VB:131:GLN:HB2	1.77	0.65
45:VE:320:ARG:HH11	45:VE:360:PRO:HA	1.62	0.65
45:VK:109:THR:O	45:VK:112:LYS:NZ	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VL:200:MET:HG3	46:VL:266:PHE:HB2	1.78	0.65
3:0C:92:GLN:CD	3:0C:93:LYS:H	2.05	0.65
7:0G:21:ASN:ND2	46:JL:218:THR:OG1	2.29	0.65
9:0N:12:TYR:O	9:0N:15:ARG:NH2	2.30	0.65
9:0N:190:PRO:HA	9:0N:193:ARG:NH1	2.12	0.65
4:1D:132:HIS:HA	4:1D:135:LYS:HE3	1.78	0.65
11:1S:18:ARG:NH2	11:1S:29:ASP:OD1	2.30	0.65
11:1S:146:LYS:HA	45:WC:123:ARG:NH2	2.12	0.65
27:3C:224:LYS:O	45:KA:221:ARG:NH2	2.29	0.65
25:3R:266:GLU:HG2	25:3R:267:ILE:HD12	1.78	0.65
13:3U:333:SER:HB3	13:3U:585:PRO:HD2	1.79	0.65
46:BD:372:THR:HA	46:BD:422:TYR:HE2	1.61	0.65
46:CF:397:TRP:HE1	45:CE:260:VAL:HG23	1.62	0.65
46:CL:322:SER:OG	45:CM:221:ARG:NH1	2.30	0.65
46:DJ:45:GLU:HG2	46:DJ:46:ARG:HG2	1.78	0.65
45:DK:90:GLU:OE2	45:EK:280:LYS:NZ	2.26	0.65
45:EE:125:LEU:O	45:EE:128:ASN:ND2	2.30	0.65
46:EL:8:GLN:NE2	46:EL:14:ASN:OD1	2.30	0.65
46:EL:31:ASP:OD1	46:EL:37:HIS:ND1	2.29	0.65
45:FC:141:VAL:HG11	45:FC:172:TYR:HD1	1.62	0.65
45:FG:71:GLU:OE2	46:FH:2:ARG:NH2	2.30	0.65
45:FK:292:THR:HG21	45:FK:331:SER:HB3	1.78	0.65
46:FN:190:HIS:CD2	46:FN:411:ALA:HA	2.32	0.65
46:GL:135:ILE:HG13	46:GL:152:ILE:HD11	1.79	0.65
45:HA:276:ILE:HD11	45:HA:280:LYS:HG3	1.78	0.65
45:JE:244:PHE:HB2	45:JE:356:ASN:HD21	1.62	0.65
45:KG:15:GLN:NE2	47:KG:501:GTP:O6	2.29	0.65
45:LK:172:TYR:CD2	45:LK:203:MET:HE1	2.31	0.65
46:LN:237:THR:HG23	46:LN:241:ARG:HH21	1.62	0.65
45:NG:54:SER:HB3	45:NG:64:ARG:HE	1.60	0.65
45:NK:221:ARG:HA	46:NL:324:LYS:HZ2	1.61	0.65
45:NK:331:SER:O	45:NK:335:ILE:HG12	1.96	0.65
45:NK:394:LYS:NZ	46:NL:346:PRO:HG2	2.12	0.65
46:NL:191:GLN:O	46:NL:195:ASN:ND2	2.28	0.65
45:NM:98:ASP:O	45:NM:105:ARG:NH2	2.29	0.65
46:OF:226:ASN:HD21	49:OF:502:GDP:HN1	1.45	0.65
46:QJ:83:GLN:O	46:RJ:281:TYR:OH	2.13	0.65
45:SE:33:ASP:HA	45:SE:85:GLN:HE21	1.61	0.65
45:UC:254:GLU:HG2	46:UD:98:GLY:HA2	1.78	0.65
45:UE:244:PHE:HB2	45:UE:356:ASN:HD21	1.61	0.65
46:UF:154:LYS:NZ	46:UF:157:GLU:OE2	2.22	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VL:240:LEU:HD11	46:VL:249:ASP:HA	1.79	0.65
45:CE:129:CYS:SG	45:CE:130:THR:N	2.70	0.65
13:0U:325:ASP:OD2	13:0U:367:CYS:N	2.30	0.65
1:1A:130:SER:O	1:1A:132:ASP:N	2.23	0.65
4:1D:95:GLN:HE22	45:EG:364:PRO:HB2	1.61	0.65
9:1N:156:HIS:ND1	46:KJ:26:ASP:OD2	2.30	0.65
23:1O:128:ARG:HH12	23:1O:132:ILE:HD13	1.61	0.65
25:1R:442:ASN:OD1	25:1R:443:ASP:N	2.29	0.65
21:2L:772:ASN:OD1	21:2L:773:LYS:N	2.30	0.65
9:2N:15:ARG:NH1	46:IB:45:GLU:OE1	2.30	0.65
13:2U:475:ILE:HG23	13:2U:483:ARG:HH12	1.60	0.65
26:2W:208:LEU:HD22	45:LM:372:MET:SD	2.37	0.65
36:5B:27:LYS:HE2	36:5B:30:LYS:HE2	1.79	0.65
10:5Q:62:PRO:HB3	10:5Q:69:LEU:HD21	1.78	0.65
45:AA:11:GLN:NE2	46:AB:247:ASN:OD1	2.30	0.65
46:AD:73:MET:HA	46:AD:76:VAL:HG12	1.78	0.65
46:AJ:68:LEU:HB3	46:AJ:96:GLY:HA2	1.78	0.65
46:BD:48:ASN:O	46:BD:62:ARG:NH1	2.30	0.65
45:BE:173:PRO:O	45:BE:390:ARG:NH2	2.30	0.65
45:BI:91:GLN:HG2	45:BI:121:ARG:HH12	1.61	0.65
45:BM:397:LEU:HD23	46:BN:346:PRO:HD3	1.77	0.65
46:DL:268:ILE:HG22	46:DL:368:VAL:HG22	1.77	0.65
46:FB:222:TYR:O	46:FB:226:ASN:ND2	2.26	0.65
45:HI:11:GLN:NE2	46:HJ:245:GLN:O	2.29	0.65
45:IM:101:ASN:HA	45:IM:144:GLY:H	1.62	0.65
46:KD:222:TYR:O	46:KD:226:ASN:ND2	2.24	0.65
45:KK:205:ASP:OD1	45:KK:206:ASN:N	2.29	0.65
46:LB:392:LYS:HD2	46:LB:395:LEU:HD22	1.79	0.65
46:LH:294:PHE:HD2	46:LH:333:VAL:HG21	1.61	0.65
46:LJ:2:ARG:HD2	46:LJ:240:LEU:HD11	1.79	0.65
45:NI:311:LYS:HG2	45:NI:342:GLN:HE22	1.59	0.65
46:OF:268:ILE:HG22	46:OF:368:VAL:HG22	1.76	0.65
46:PL:257:LEU:HD11	46:PL:314:SER:HB3	1.79	0.65
46:QH:8:GLN:NE2	46:QH:13:GLY:O	2.29	0.65
45:QK:268:MET:HE2	45:QK:378:ILE:HG22	1.78	0.65
46:QL:83:GLN:O	46:RL:281:TYR:OH	2.14	0.65
45:TG:203:MET:HA	45:TG:203:MET:HE3	1.79	0.65
45:TG:332:ILE:HG23	45:TG:351:PHE:HD2	1.62	0.65
45:UG:326:LYS:NZ	46:UH:220:PRO:O	2.29	0.65
46:UL:318:ARG:HG2	46:UL:357:PRO:HA	1.79	0.65
46:WF:282:ARG:HH21	46:WF:288:GLU:HB3	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:WJ:344:TRP:HB3	46:WJ:430:ALA:HB2	1.78	0.65
46:WN:200:MET:HG3	46:WN:266:PHE:HB2	1.78	0.65
45:CE:298:PRO:HA	45:CE:301:MET:HE3	1.78	0.65
2:0B:242:PRO:HB3	46:JL:361:LEU:HD13	1.78	0.65
15:0X:27:PHE:O	15:0X:28:GLU:HG3	1.97	0.65
16:1B:486:SER:HA	16:1B:489:HIS:CE1	2.31	0.65
23:1O:152:CYS:SG	23:1O:156:ARG:NE	2.65	0.65
12:1T:6:ILE:HD11	12:1T:185:LEU:HD22	1.78	0.65
31:2I:48:PHE:HE2	46:GH:294:PHE:HB3	1.61	0.65
20:2K:379:ARG:HD2	45:GG:282:TYR:CD2	2.29	0.65
21:2L:369:GLN:HG2	21:2L:371:GLU:HG3	1.79	0.65
23:2O:152:CYS:HA	23:2O:155:ILE:HG12	1.76	0.65
13:2U:55:ASP:OD2	13:2U:56:ASN:N	2.29	0.65
26:2W:209:GLU:O	26:2W:213:GLN:NE2	2.29	0.65
26:2W:217:ARG:HH22	27:4C:184:ASP:H	1.45	0.65
21:3L:116:LYS:N	21:3L:117:GLU:OE1	2.26	0.65
45:AM:90:GLU:HG2	45:BM:280:LYS:HZ1	1.62	0.65
45:BA:91:GLN:HB3	45:BA:121:ARG:HH21	1.61	0.65
45:BG:98:ASP:OD1	45:BG:99:ALA:N	2.30	0.65
45:DG:326:LYS:HZ1	46:DH:219:THR:HA	1.62	0.65
46:DJ:200:MET:HG2	46:DJ:268:ILE:HG23	1.78	0.65
46:FF:31:ASP:OD1	46:FF:35:THR:N	2.29	0.65
45:GK:98:ASP:O	45:GK:105:ARG:NH1	2.30	0.65
45:HA:172:TYR:CE2	45:HA:203:MET:HG3	2.31	0.65
45:HI:271:SER:OG	45:HI:301:MET:SD	2.55	0.65
45:JG:71:GLU:HB3	45:JG:98:ASP:HB2	1.79	0.65
45:JG:167:LEU:HG	45:JG:200:VAL:HB	1.78	0.65
46:LB:210:ILE:O	46:LB:214:THR:OG1	2.15	0.65
46:LD:101:TRP:HB2	46:LD:184:ASN:HB3	1.77	0.65
46:LL:190:HIS:HE1	46:LL:414:ASN:ND2	1.95	0.65
45:MK:195:LEU:O	45:MK:266:HIS:NE2	2.27	0.65
45:NK:271:SER:OG	45:NK:301:MET:SD	2.55	0.65
45:NM:55:GLU:O	45:OM:285:GLN:NE2	2.30	0.65
45:OE:76:ASP:OD2	46:OF:46:ARG:NH2	2.30	0.65
45:PA:258:ASN:HB3	45:PA:352:LYS:HG3	1.79	0.65
46:PJ:382:ALA:HB2	46:PJ:415:MET:HE1	1.78	0.65
45:PK:167:LEU:HG	45:PK:200:VAL:HB	1.79	0.65
46:SF:73:MET:HA	46:SF:76:VAL:HG12	1.78	0.65
46:TN:73:MET:HA	46:TN:76:VAL:HG12	1.79	0.65
45:UC:214:ARG:HH12	45:UC:220:GLU:HA	1.61	0.65
46:UJ:68:LEU:HD23	46:UJ:147:MET:HE3	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UK:316:SER:HA	45:UK:352:LYS:HB2	1.79	0.65
45:UM:180:ALA:HB3	45:UM:183:GLU:HG3	1.78	0.65
45:VA:241:SER:OG	45:VA:250:VAL:O	2.14	0.65
45:VG:31:GLN:NE2	45:VG:35:GLN:O	2.30	0.65
45:VI:221:ARG:NH2	46:VJ:321:MET:HB2	2.12	0.65
45:WA:173:PRO:O	45:WA:390:ARG:NH2	2.30	0.65
45:WA:398:MET:HE1	46:WB:346:PRO:HD2	1.77	0.65
45:WC:251:ASP:OD1	45:WC:252:ILE:N	2.30	0.65
46:WF:153:SER:HB2	46:WF:191:GLN:HE21	1.62	0.65
46:WJ:260:PHE:HB2	46:WJ:263:LEU:HD13	1.79	0.65
45:CE:203:MET:HA	45:CE:203:MET:HE3	1.79	0.65
2:0B:284:GLN:O	46:KL:276:ARG:NH2	2.30	0.65
7:0G:31:MET:HE3	7:0G:34:ARG:HH21	1.60	0.65
19:1J:288:VAL:O	46:IL:362:LYS:NZ	2.24	0.65
21:1L:390:GLN:HE21	21:1L:447:LEU:HD11	1.61	0.65
23:1O:125:LEU:HD21	46:UF:83:GLN:HG3	1.79	0.65
11:1S:138:TYR:HB3	11:1S:185:TYR:HE1	1.60	0.65
16:2B:97:ARG:NH1	16:2B:174:ASN:OD1	2.30	0.65
13:2U:385:LYS:HG2	13:2U:401:SER:HA	1.78	0.65
15:4X:10:ARG:NH2	15:4X:28:GLU:OE1	2.29	0.65
36:5C:27:LYS:HE2	36:5C:30:LYS:HE2	1.79	0.65
45:AA:271:SER:HA	45:AA:302:MET:HG2	1.77	0.65
45:AM:101:ASN:HA	45:AM:144:GLY:H	1.61	0.65
45:BM:222:PRO:C	46:BN:322:SER:HG	2.04	0.65
46:BN:73:MET:HA	46:BN:76:VAL:HG12	1.79	0.65
45:CC:226:ASN:ND2	45:CC:367:ASP:OD2	2.30	0.65
46:CF:67:ASP:O	46:CF:92:PHE:HA	1.97	0.65
46:CH:67:ASP:O	46:CH:92:PHE:HA	1.94	0.65
46:DB:156:ARG:NH1	46:DB:159:TYR:O	2.29	0.65
46:DL:346:PRO:HD2	45:DM:398:MET:HE1	1.79	0.65
45:EE:371:VAL:HG12	45:EE:373:ARG:H	1.61	0.65
46:EJ:15:GLN:O	46:EJ:226:ASN:ND2	2.30	0.65
46:EN:73:MET:HA	46:EN:76:VAL:HG12	1.79	0.65
46:EN:257:LEU:HD11	46:EN:314:SER:HB2	1.76	0.65
46:FL:201:VAL:HG21	46:FL:377:MET:HE1	1.79	0.65
46:HB:222:TYR:O	46:HB:226:ASN:ND2	2.26	0.65
45:HE:257:THR:HA	46:HH:397:TRP:CH2	2.32	0.65
46:IF:267:MET:HE2	46:IF:299:MET:HE3	1.78	0.65
45:II:11:GLN:HG3	45:II:74:VAL:HG11	1.79	0.65
45:JE:254:GLU:OE1	45:JE:257:THR:OG1	2.11	0.65
45:LI:116:ASP:OD1	45:LI:117:LEU:N	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:MH:128:ASP:OD1	46:MH:129:CYS:N	2.29	0.65
45:MK:430:LYS:HA	45:MK:433:GLU:OE1	1.96	0.65
45:MM:140:SER:OG	47:MM:501:GTP:O2B	2.15	0.65
45:NI:223:THR:HG22	45:NI:224:TYR:H	1.61	0.65
46:NL:344:TRP:HB3	46:NL:430:ALA:HB2	1.79	0.65
45:NM:71:GLU:HG3	45:NM:98:ASP:HB2	1.79	0.65
45:OA:320:ARG:NH2	45:OA:358:GLN:OE1	2.30	0.65
46:PB:222:TYR:O	46:PB:226:ASN:ND2	2.27	0.65
45:PC:326:LYS:NZ	46:PF:220:PRO:O	2.28	0.65
45:QG:203:MET:HG3	45:QG:384:ILE:HD11	1.79	0.65
45:QG:335:ILE:HA	45:QG:338:LYS:HE3	1.78	0.65
45:RA:229:ARG:NH2	45:RA:367:ASP:OD2	2.29	0.65
46:RF:67:ASP:HB3	46:RF:73:MET:HE1	1.78	0.65
46:RF:268:ILE:HG13	46:RF:300:MET:HE2	1.78	0.65
46:RF:289:LEU:HD13	46:RF:365:VAL:HG23	1.78	0.65
46:SL:324:LYS:HD3	45:SM:222:PRO:HD2	1.79	0.65
45:SM:326:LYS:HD3	46:SN:212:PHE:HZ	1.61	0.65
46:TH:97:ALA:HB3	46:TH:143:THR:HB	1.78	0.65
46:TL:226:ASN:HD21	49:TL:501:GDP:HN1	1.45	0.65
45:UG:226:ASN:ND2	45:UG:367:ASP:OD2	2.30	0.65
45:UK:188:ILE:HD12	45:UK:425:LEU:HD11	1.78	0.65
45:WC:326:LYS:HD2	46:WF:220:PRO:HD2	1.78	0.65
46:WF:293:MET:HE2	46:WF:367:PHE:HB2	1.78	0.65
12:0T:142:GLY:HA3	12:0T:145:MET:HE3	1.79	0.65
8:1H:276:LYS:HE3	20:1K:119:LEU:HB3	1.79	0.65
19:1J:291:ASP:OD2	45:IK:221:ARG:NH1	2.30	0.65
24:1P:341:LEU:HD22	45:TC:364:PRO:HG3	1.78	0.65
21:2L:734:VAL:HG23	21:2L:735:ASP:H	1.62	0.65
11:2S:76:GLN:N	11:2S:76:GLN:NE2	2.38	0.65
37:5G:11:TRP:HE3	37:5G:14:ARG:HE	1.44	0.65
45:AC:345:ASP:OD1	45:AC:346:TRP:N	2.30	0.65
46:AF:3:GLU:HG3	46:AF:49:VAL:HA	1.78	0.65
46:AL:213:ARG:O	46:AL:216:LYS:NZ	2.24	0.65
45:BI:135:PHE:HB2	45:BI:166:LYS:HG3	1.78	0.65
45:BK:292:THR:HG21	45:BK:331:SER:HB3	1.79	0.65
45:CA:259:LEU:HD13	45:CA:268:MET:HE2	1.79	0.65
46:DB:257:LEU:HD12	46:DB:312:THR:HG23	1.79	0.65
46:DH:7:ILE:HG22	46:DH:64:ILE:HG12	1.79	0.65
45:DK:36:MET:HG3	45:DK:38:SER:H	1.60	0.65
46:EB:67:ASP:O	46:EB:92:PHE:HA	1.97	0.65
45:EG:120:ASP:OD1	45:EG:123:ARG:NH2	2.28	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EG:140:SER:OG	47:EG:501:GTP:O2B	2.15	0.65
45:EG:338:LYS:HZ2	45:EG:340:THR:H	1.45	0.65
45:EK:128:ASN:ND2	45:FI:290:GLU:OE2	2.29	0.65
46:EL:68:LEU:HB3	46:EL:96:GLY:HA2	1.78	0.65
46:EL:164:MET:HB3	46:EL:197:ASP:H	1.62	0.65
46:GJ:286:VAL:HG21	46:GJ:325:GLU:HG3	1.78	0.65
46:HF:80:PRO:HD2	46:HF:80:PRO:O	1.97	0.65
46:LD:68:LEU:HD13	46:LD:147:MET:HE1	1.78	0.65
45:MI:119:LEU:HD11	45:MI:156:ARG:HG2	1.78	0.65
46:NH:102:ALA:HB2	46:NH:403:MET:HE2	1.78	0.65
45:NI:402:ARG:NH2	45:NI:415:GLU:OE2	2.30	0.65
45:OC:352:LYS:NZ	46:OF:178:THR:HA	2.12	0.65
46:OL:371:SER:O	46:OL:422:TYR:OH	2.13	0.65
45:PG:298:PRO:HA	45:PG:301:MET:HE1	1.78	0.65
46:QF:150:LEU:O	46:QF:154:LYS:HG2	1.97	0.65
45:QI:108:TYR:O	45:QI:112:LYS:NZ	2.28	0.65
46:QL:309:ARG:NH1	46:QL:343:GLU:OE2	2.28	0.65
45:RI:268:MET:HE2	45:RI:378:ILE:HG22	1.78	0.65
46:RJ:5:VAL:HG12	46:RJ:62:ARG:HD3	1.79	0.65
46:RL:12:CYS:HA	46:RL:15:GLN:HE21	1.61	0.65
45:SI:48:ALA:HB1	45:SI:243:ARG:HB2	1.79	0.65
45:SK:75:ILE:HD13	45:SK:94:SER:HB2	1.79	0.65
46:SL:313:ALA:HB1	46:SL:367:PHE:HE1	1.61	0.65
45:TI:90:GLU:CD	45:UI:280:LYS:HZ3	2.05	0.65
45:TK:192:HIS:HD2	45:TK:421:ALA:HA	1.62	0.65
45:UC:2:ARG:HH21	46:UD:70:PRO:HD2	1.61	0.65
46:UL:330:MET:HE1	46:UL:349:ILE:HB	1.79	0.65
45:VI:174:SER:HB2	45:VI:177:VAL:HB	1.78	0.65
46:WL:268:ILE:HG22	46:WL:368:VAL:HG12	1.79	0.65
13:0U:68:LYS:HG3	13:0U:69:TYR:H	1.62	0.64
7:1G:87:PHE:O	46:JB:276:ARG:NH2	2.29	0.64
21:1L:778:ILE:HG22	21:1L:785:LEU:HD11	1.79	0.64
24:1P:311:ILE:HA	24:1P:314:MET:HE2	1.79	0.64
25:1R:454:ARG:HH22	46:FD:218:THR:HG22	1.61	0.64
13:2U:504:GLN:OE1	13:2U:562:TYR:OH	2.14	0.64
14:2V:22:ARG:NH1	45:ME:423:GLU:OE2	2.30	0.64
14:2V:235:VAL:HG13	14:2V:239:ARG:HH21	1.61	0.64
14:3V:40:ASN:ND2	14:3V:45:ARG:O	2.30	0.64
27:4C:97:GLN:HG3	27:4C:99:LEU:H	1.62	0.64
36:5B:27:LYS:HE2	36:5B:30:LYS:HB2	1.79	0.64
34:7R:541:LYS:HD2	34:7R:541:LYS:H	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BI:276:ILE:HD12	45:BI:281:ALA:HA	1.79	0.64
46:BL:175:VAL:N	46:BL:205:GLU:OE2	2.30	0.64
46:CJ:68:LEU:HB3	46:CJ:96:GLY:HA2	1.77	0.64
46:CJ:207:LEU:HB3	46:CJ:225:LEU:HD22	1.78	0.64
45:DA:11:GLN:HG3	45:DA:74:VAL:HG11	1.80	0.64
46:DB:67:ASP:O	46:DB:92:PHE:HA	1.97	0.64
46:DD:6:HIS:O	46:DD:63:ALA:HA	1.97	0.64
45:DE:244:PHE:HB2	45:DE:356:ASN:HD21	1.61	0.64
46:DJ:324:LYS:HG3	45:DK:222:PRO:HG2	1.77	0.64
45:DM:75:ILE:HG22	45:DM:79:ARG:HE	1.59	0.64
45:EC:209:ILE:HD12	45:EC:227:LEU:HB3	1.77	0.64
46:EN:182:PRO:HD2	46:EN:183:TYR:H	1.61	0.64
46:FJ:309:ARG:NH2	46:FJ:426:GLN:O	2.29	0.64
45:HM:288:VAL:HG11	45:HM:327:ASP:HB3	1.77	0.64
46:IN:173:PRO:HD2	46:IN:380:ARG:HH21	1.61	0.64
45:JK:399:TYR:OH	45:JK:402:ARG:NH1	2.30	0.64
45:JM:244:PHE:HB2	45:JM:356:ASN:HD21	1.60	0.64
45:KE:56:THR:HG23	45:KE:58:ALA:H	1.62	0.64
45:KI:98:ASP:O	45:KI:105:ARG:NH2	2.30	0.64
46:KL:293:MET:HE1	46:KL:315:ALA:HB2	1.79	0.64
45:KM:244:PHE:HB2	45:KM:356:ASN:HD21	1.62	0.64
45:MK:315:CYS:SG	45:MK:377:MET:HE1	2.37	0.64
46:ND:293:MET:HE2	46:ND:365:VAL:HG21	1.78	0.64
46:OB:86:ARG:NH1	46:PB:281:TYR:HB3	2.09	0.64
45:OG:167:LEU:HD13	45:OG:200:VAL:HG21	1.79	0.64
45:OI:265:ILE:HG12	45:OI:432:TYR:HE1	1.63	0.64
46:PD:215:LEU:HB3	46:PD:217:LEU:HD23	1.79	0.64
45:QE:311:LYS:HE3	45:QE:342:GLN:HB3	1.79	0.64
45:QI:251:ASP:HB3	45:QI:253:THR:HG22	1.78	0.64
46:QJ:164:MET:HB3	46:QJ:197:ASP:H	1.62	0.64
45:RA:258:ASN:HD21	46:RB:178:THR:HG23	1.62	0.64
45:RC:206:ASN:OD1	47:RC:501:GTP:N2	2.30	0.64
46:RF:324:LYS:HE3	45:RG:214:ARG:HD3	1.79	0.64
46:RH:67:ASP:O	46:RH:92:PHE:HA	1.95	0.64
45:RI:248:LEU:HB2	45:RI:355:ILE:HG22	1.77	0.64
46:RJ:248:SER:HB3	46:RJ:252:LYS:HG2	1.80	0.64
46:SH:21:TRP:HA	46:SH:24:ILE:HG22	1.78	0.64
46:SH:324:LYS:HD2	45:SI:210:TYR:CD2	2.33	0.64
45:SI:108:TYR:HA	45:SI:112:LYS:HE3	1.79	0.64
45:SK:78:VAL:HA	45:SK:84:ARG:HH21	1.62	0.64
46:TD:322:SER:OG	45:TE:221:ARG:NH1	2.29	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UD:284:LEU:HD12	46:UD:289:LEU:HD21	1.79	0.64
45:VG:337:THR:O	45:VG:339:ARG:NH1	2.29	0.64
45:VI:141:VAL:HG11	45:VI:172:TYR:HD1	1.62	0.64
45:WA:222:PRO:HD2	46:WB:324:LYS:CE	2.27	0.64
45:WC:251:ASP:HB3	45:WC:254:GLU:HG3	1.79	0.64
46:WL:290:THR:HA	46:WL:293:MET:HG2	1.79	0.64
8:1H:154:GLU:OE2	33:4F:19:TYR:N	2.30	0.64
19:1J:117:GLU:OE1	45:IE:221:ARG:NH2	2.28	0.64
22:1M:274:ARG:HH12	22:1M:278:GLU:HG2	1.63	0.64
23:1O:268:ASN:CB	45:UA:282:TYR:HB2	2.28	0.64
23:1O:271:ALA:HA	23:1O:274:VAL:H	1.61	0.64
12:1T:122:ARG:HH22	12:1T:198:ASP:HB3	1.62	0.64
21:2L:751:ARG:NH2	46:BL:357:PRO:O	2.30	0.64
23:2O:141:LYS:O	23:2O:145:LYS:HG2	1.97	0.64
33:4F:168:GLU:HG2	33:4F:169:PHE:H	1.62	0.64
45:BK:164:LYS:O	45:BK:166:LYS:NZ	2.30	0.64
45:BK:352:LYS:HE3	46:BN:179:VAL:HG13	1.79	0.64
46:CF:203:ASP:OD2	46:CF:302:ALA:N	2.26	0.64
46:CH:322:SER:OG	45:CI:222:PRO:O	2.14	0.64
46:CL:274:THR:HG21	46:CL:282:ARG:HD2	1.77	0.64
46:DD:190:HIS:CE1	46:DD:414:ASN:HD22	2.16	0.64
46:DF:54:ALA:HA	46:EF:283:ALA:HB2	1.80	0.64
45:DG:276:ILE:HD11	45:DG:280:LYS:HG3	1.78	0.64
45:DG:288:VAL:HG21	45:DG:327:ASP:HB3	1.78	0.64
46:DL:186:THR:HG22	46:DL:415:MET:HE1	1.78	0.64
46:ED:325:GLU:H	45:EE:221:ARG:NH2	1.95	0.64
46:FJ:256:ASN:HD22	46:FJ:350:LYS:HD2	1.62	0.64
46:HJ:222:TYR:O	46:HJ:226:ASN:ND2	2.19	0.64
45:IA:260:VAL:HB	46:ID:397:TRP:CZ2	2.32	0.64
45:IC:31:GLN:HE22	45:IC:37:PRO:HD3	1.61	0.64
46:ID:114:ASP:OD1	46:ID:115:SER:N	2.29	0.64
46:IH:290:THR:OG1	46:IH:329:GLN:NE2	2.29	0.64
46:JH:73:MET:HE3	46:JH:92:PHE:HB3	1.79	0.64
46:JN:344:TRP:CD1	46:JN:345:ILE:HG23	2.31	0.64
46:MF:313:ALA:HB3	46:MF:349:ILE:HG12	1.78	0.64
45:NK:398:MET:HE1	46:NL:345:ILE:HD12	1.79	0.64
46:OB:113:ILE:HG12	46:OB:117:LEU:HD23	1.79	0.64
46:ON:318:ARG:HB3	46:ON:357:PRO:HA	1.79	0.64
46:QH:66:MET:HE2	46:QH:147:MET:HE3	1.80	0.64
46:SB:161:ASP:O	46:SB:251:ARG:NH2	2.30	0.64
46:SD:248:SER:OG	46:SD:350:LYS:NZ	2.22	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SJ:269:GLY:HA3	46:SJ:293:MET:HE1	1.79	0.64
46:TB:3:GLU:HG2	46:TB:49:VAL:HA	1.80	0.64
46:TN:83:GLN:O	46:UN:281:TYR:OH	2.14	0.64
45:UE:207:GLU:HA	45:UE:210:TYR:CD2	2.32	0.64
46:UJ:222:TYR:O	46:UJ:226:ASN:ND2	2.27	0.64
46:UL:318:ARG:HB3	46:UL:364:ALA:HB3	1.79	0.64
46:VD:86:ARG:HD2	46:VD:88:ASP:H	1.62	0.64
45:CE:175:PRO:HG3	45:CE:390:ARG:NH1	2.12	0.64
13:0U:138:LYS:HE2	13:0U:140:LEU:HD21	1.78	0.64
23:1O:197:LYS:O	23:1O:201:GLU:HG2	1.97	0.64
11:1S:231:LEU:HD12	11:1S:290:THR:HG21	1.80	0.64
29:2G:68:ARG:NH2	22:2M:283:VAL:HG11	2.12	0.64
21:2L:275:ILE:HD12	21:2L:317:LEU:HD11	1.78	0.64
37:5E:197:LEU:HD13	45:LC:393:HIS:HB2	1.79	0.64
46:AB:229:VAL:HG12	46:AB:233:MET:HE2	1.80	0.64
46:AB:281:TYR:HD1	46:MB:86:ARG:HG3	1.63	0.64
46:BB:60:VAL:HG21	46:BB:86:ARG:HG2	1.80	0.64
45:BE:101:ASN:HA	45:BE:144:GLY:H	1.60	0.64
46:CB:178:THR:HB	46:CB:181:GLU:HG3	1.78	0.64
46:CH:152:ILE:HG23	46:CH:164:MET:HE2	1.79	0.64
46:CH:321:MET:HB2	45:CI:221:ARG:HH21	1.62	0.64
45:CI:268:MET:HG3	45:CI:380:ASN:HB3	1.79	0.64
46:CN:207:LEU:HD13	46:CN:225:LEU:HB3	1.78	0.64
45:DG:26:LEU:HD13	45:DG:363:VAL:HG12	1.78	0.64
46:EB:86:ARG:HH12	46:FB:282:ARG:HA	1.62	0.64
46:EH:8:GLN:NE2	46:EH:14:ASN:HA	2.13	0.64
46:HF:67:ASP:OD1	46:HF:68:LEU:N	2.31	0.64
45:IA:254:GLU:OE2	46:ID:99:ASN:ND2	2.30	0.64
45:JA:338:LYS:HZ2	45:JA:339:ARG:H	1.44	0.64
45:MK:253:THR:HA	45:MK:256:GLN:HE22	1.61	0.64
46:NF:86:ARG:NH2	46:OF:281:TYR:O	2.30	0.64
45:OI:212:ILE:HD11	45:OI:300:ASN:HA	1.78	0.64
46:OJ:215:LEU:HD21	46:OJ:273:LEU:HD12	1.79	0.64
45:OK:99:ALA:HB3	45:OK:145:THR:HB	1.79	0.64
45:PI:326:LYS:HG2	46:PL:212:PHE:CZ	2.30	0.64
46:QB:268:ILE:HG22	46:QB:368:VAL:HG22	1.79	0.64
45:QC:326:LYS:NZ	46:QD:220:PRO:O	2.30	0.64
45:RC:70:LEU:HD12	45:RC:95:GLY:HA3	1.80	0.64
46:RH:375:GLN:HB2	46:RH:379:LYS:HZ2	1.63	0.64
45:SC:98:ASP:O	45:SC:105:ARG:NH2	2.28	0.64
46:SJ:139:LEU:HD13	46:SJ:168:SER:HB2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SN:139:LEU:HD22	46:SN:170:VAL:HG12	1.80	0.64
46:TB:100:ASN:ND2	46:TB:401:GLU:OE1	2.30	0.64
46:TF:97:ALA:HB3	46:TF:143:THR:HB	1.79	0.64
46:TH:222:TYR:O	46:TH:226:ASN:ND2	2.29	0.64
46:TL:58:ARG:HD2	46:UL:280:GLN:HE22	1.62	0.64
46:UB:65:LEU:HD22	46:UB:90:PHE:HE1	1.62	0.64
46:VJ:293:MET:HE2	46:VJ:367:PHE:HB2	1.79	0.64
46:WD:325:GLU:HA	46:WD:328:GLU:HG3	1.79	0.64
46:WF:135:ILE:HG13	46:WF:152:ILE:HD11	1.79	0.64
1:0A:138:TRP:CZ3	45:AA:81:GLY:HA2	2.32	0.64
4:1D:81:ARG:NH2	46:EF:358:PRO:O	2.30	0.64
7:1G:142:LYS:HE3	45:JA:84:ARG:HD2	1.79	0.64
8:1H:206:ARG:O	8:1H:209:GLN:NE2	2.29	0.64
23:1O:59:GLN:HA	23:1O:62:LYS:HD3	1.79	0.64
23:1O:268:ASN:N	45:UA:282:TYR:CG	2.61	0.64
11:1S:17:LYS:NZ	46:WF:90:PHE:O	2.30	0.64
11:1S:150:GLN:HE22	45:WC:163:LYS:H	1.42	0.64
4:2D:44:TYR:HD2	4:2D:46:PRO:HA	1.61	0.64
25:3R:25:VAL:HG12	45:MK:46:ASP:H	1.63	0.64
12:3T:75:PHE:HD2	12:3T:105:ARG:HE	1.45	0.64
13:3U:404:HIS:CD2	13:3U:408:VAL:HG22	2.32	0.64
27:4C:294:ILE:HG23	27:4C:295:VAL:HG23	1.77	0.64
34:4R:242:ASN:HB2	45:BE:57:GLY:HA3	1.78	0.64
34:5R:415:LYS:NZ	34:5R:451:ASP:OD2	2.28	0.64
46:AF:7:ILE:HB	46:AF:135:ILE:HG12	1.78	0.64
45:AK:76:ASP:OD2	45:AK:79:ARG:NH2	2.30	0.64
45:AK:288:VAL:HA	45:AK:291:ILE:HG12	1.78	0.64
45:BA:288:VAL:HG11	45:BA:327:ASP:HB3	1.79	0.64
46:CD:45:GLU:HG3	46:CD:46:ARG:HD2	1.77	0.64
45:EC:326:LYS:HG2	46:ED:212:PHE:CE2	2.33	0.64
45:EM:311:LYS:HZ1	45:EM:344:VAL:N	1.95	0.64
45:GC:177:VAL:HG22	46:GD:331:LEU:HD11	1.78	0.64
46:GD:385:PHE:HE2	46:GD:412:GLU:HB2	1.63	0.64
46:GH:52:ASN:OD1	46:GH:62:ARG:NH2	2.30	0.64
46:GN:55:THR:HG23	46:HN:283:ALA:HA	1.79	0.64
46:GN:100:ASN:ND2	46:GN:401:GLU:OE1	2.31	0.64
46:HH:301:CYS:SG	46:HH:302:ALA:N	2.71	0.64
46:IB:151:LEU:HA	46:IB:154:LYS:HG2	1.80	0.64
46:ID:67:ASP:OD1	46:ID:73:MET:HE1	1.98	0.64
45:JE:36:MET:HG3	45:JE:37:PRO:HD2	1.80	0.64
46:KD:292:GLN:HG2	46:KD:298:ASN:HD22	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KJ:108:GLU:OE2	46:KJ:108:GLU:N	2.30	0.64
45:LA:259:LEU:HD21	45:LA:316:SER:HB2	1.79	0.64
46:LL:372:THR:HG21	46:LL:426:GLN:HB2	1.77	0.64
45:MC:76:ASP:OD1	45:MC:79:ARG:NH2	2.31	0.64
46:MN:178:THR:HB	46:MN:181:GLU:HG3	1.78	0.64
45:NA:89:PRO:HD2	45:OA:280:LYS:NZ	2.13	0.64
46:NB:113:ILE:HG12	46:NB:117:LEU:HD23	1.80	0.64
46:ND:293:MET:HE1	46:ND:317:PHE:HE1	1.63	0.64
45:NI:352:LYS:HZ2	46:NL:179:VAL:HG13	1.61	0.64
46:NL:257:LEU:HD21	46:NL:314:SER:HB3	1.78	0.64
45:QA:55:GLU:HG3	45:QA:57:GLY:H	1.63	0.64
46:QD:350:LYS:NZ	46:QD:352:SER:OG	2.31	0.64
46:QF:1:MET:N	46:QF:3:GLU:OE2	2.30	0.64
46:QF:68:LEU:HB3	46:QF:96:GLY:HA2	1.77	0.64
45:QG:101:ASN:HA	45:QG:144:GLY:H	1.62	0.64
46:QJ:304:ASP:OD2	46:QJ:307:HIS:ND1	2.29	0.64
45:RA:60:LYS:NZ	45:RA:85:GLN:O	2.30	0.64
45:RC:172:TYR:HB2	45:RC:203:MET:HE1	1.79	0.64
45:RE:292:THR:HG21	45:RE:331:SER:HB2	1.80	0.64
46:RJ:49:VAL:HG21	46:RJ:241:ARG:HG2	1.78	0.64
45:TG:389:SER:O	45:TG:393:HIS:ND1	2.31	0.64
46:TJ:164:MET:HB2	46:TJ:197:ASP:H	1.62	0.64
45:TM:265:ILE:HG22	45:TM:380:ASN:HD21	1.63	0.64
45:UG:188:ILE:HD12	45:UG:425:LEU:HD11	1.80	0.64
46:UJ:2:ARG:HH12	46:UJ:240:LEU:HG	1.61	0.64
46:UL:86:ARG:HE	46:UL:87:PRO:HD2	1.62	0.64
46:VN:226:ASN:HD21	49:VN:501:GDP:HN1	1.46	0.64
46:WB:119:VAL:HA	46:WB:122:LYS:HD3	1.78	0.64
45:WM:221:ARG:NH1	46:WN:322:SER:OG	2.29	0.64
45:DC:36:MET:SD	45:DC:37:PRO:HD2	2.37	0.64
2:0B:78:GLU:HG3	2:0B:79:PHE:H	1.62	0.64
14:0V:24:ARG:HH22	45:MM:433:GLU:HB2	1.61	0.64
19:1J:391:ILE:HA	19:1J:394:ARG:HH12	1.62	0.64
21:1L:524:ARG:NH2	46:BF:357:PRO:O	2.25	0.64
24:1P:281:GLU:HA	24:1P:284:GLN:HG2	1.80	0.64
12:1T:62:VAL:HA	12:1T:146:MET:HB2	1.79	0.64
13:3U:388:ALA:O	13:3U:397:LEU:N	2.31	0.64
33:4F:172:LYS:HG3	33:4F:174:THR:H	1.62	0.64
34:4R:316:THR:HB	34:4R:321:MET:HE3	1.79	0.64
34:5R:567:ASN:OD1	34:5R:568:ASP:N	2.31	0.64
34:6R:430:LEU:HD22	34:6R:442:PHE:HE1	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AB:309:ARG:NH2	46:AB:426:GLN:O	2.23	0.64
45:AE:118:CYS:O	45:AE:122:ILE:HG12	1.98	0.64
46:AH:396:HIS:HA	46:AH:399:THR:HG22	1.78	0.64
46:AJ:257:LEU:HD11	46:AJ:314:SER:HB2	1.79	0.64
45:AM:226:ASN:ND2	45:AM:367:ASP:OD2	2.29	0.64
46:AN:44:LEU:HA	46:AN:47:ILE:HD11	1.80	0.64
46:BN:178:THR:HB	46:BN:181:GLU:HG3	1.79	0.64
46:CB:109:GLY:HA2	46:CB:147:MET:HE2	1.78	0.64
46:CD:236:VAL:HG23	46:CD:237:THR:HG23	1.79	0.64
46:CH:375:GLN:HG3	46:CH:379:LYS:NZ	2.12	0.64
46:CL:91:VAL:HG21	46:CL:116:VAL:HB	1.80	0.64
46:CL:324:LYS:HG2	45:CM:222:PRO:HG2	1.78	0.64
45:DI:244:PHE:HB2	45:DI:356:ASN:HD21	1.62	0.64
46:DL:19:LYS:HZ2	46:DL:227:HIS:HA	1.61	0.64
46:DN:100:ASN:HD22	46:DN:103:LYS:HG3	1.63	0.64
46:EB:358:PRO:HB2	46:EB:361:LEU:HD13	1.79	0.64
45:EE:9:VAL:HG12	45:EE:68:LEU:HB2	1.78	0.64
45:FE:64:ARG:NH1	45:FE:129:CYS:SG	2.70	0.64
46:FJ:293:MET:SD	46:FJ:365:VAL:HG11	2.38	0.64
45:GC:287:SER:N	45:GC:290:GLU:OE2	2.26	0.64
45:GG:407:TRP:HZ2	46:GH:258:ILE:HD11	1.60	0.64
46:GH:215:LEU:HD21	46:GH:273:LEU:HD12	1.79	0.64
46:GN:246:LEU:HD13	46:GN:353:ILE:HD13	1.78	0.64
45:HG:64:ARG:NH1	45:HG:129:CYS:SG	2.71	0.64
45:HM:188:ILE:HD12	45:HM:425:LEU:HD11	1.80	0.64
46:HN:215:LEU:HB3	46:HN:217:LEU:HD13	1.80	0.64
45:IG:55:GLU:HG3	45:IG:57:GLY:H	1.61	0.64
45:IK:272:TYR:HB3	45:IK:275:ILE:HD11	1.79	0.64
45:JK:222:PRO:HD2	46:JL:324:LYS:HZ2	1.61	0.64
45:JK:308:ARG:HH11	45:JK:340:THR:HG22	1.62	0.64
46:JL:350:LYS:NZ	46:JL:352:SER:OG	2.30	0.64
45:JM:71:GLU:HB2	46:JN:2:ARG:HH12	1.62	0.64
45:KA:288:VAL:HA	45:KA:291:ILE:HG12	1.79	0.64
46:KN:293:MET:HE3	46:KN:367:PHE:HB2	1.78	0.64
45:LE:292:THR:HG21	45:LE:331:SER:HB2	1.78	0.64
45:MC:254:GLU:OE1	46:MF:99:ASN:ND2	2.30	0.64
46:NB:1:MET:N	46:NB:3:GLU:OE1	2.25	0.64
45:NC:73:THR:O	45:NC:77:GLU:HG2	1.97	0.64
45:OK:276:ILE:HG23	45:OK:280:LYS:HE2	1.78	0.64
45:OM:203:MET:HE3	45:OM:267:PHE:HB3	1.79	0.64
46:PJ:100:ASN:HB3	46:PJ:103:LYS:HB2	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PM:244:PHE:HB2	45:PM:356:ASN:HD21	1.61	0.64
45:QA:188:ILE:HD12	45:QA:425:LEU:HD11	1.79	0.64
46:QH:165:GLU:HG3	46:QH:250:LEU:HD11	1.77	0.64
46:QJ:322:SER:O	45:QK:221:ARG:NH2	2.31	0.64
45:RM:288:VAL:HG11	45:RM:327:ASP:HB3	1.79	0.64
46:SD:121:ARG:NH2	46:SD:158:GLU:OE1	2.31	0.64
46:SL:139:LEU:HD22	46:SL:170:VAL:HG12	1.79	0.64
45:TC:2:ARG:HH21	46:TD:70:PRO:HD3	1.62	0.64
45:TG:89:PRO:HG2	45:UG:280:LYS:HZ2	1.63	0.64
45:TM:80:THR:O	45:TM:84:ARG:NH2	2.27	0.64
46:UD:372:THR:HA	46:UD:422:TYR:HE2	1.63	0.64
45:UM:214:ARG:HH12	45:UM:220:GLU:HG2	1.61	0.64
45:VI:260:VAL:HB	46:VL:397:TRP:CZ2	2.32	0.64
46:WB:11:GLN:OE1	46:WB:15:GLN:NE2	2.24	0.64
45:WK:173:PRO:O	45:WK:390:ARG:NH2	2.30	0.64
10:0Q:26:ASP:HB2	10:0Q:63:ALA:HA	1.79	0.64
10:0Q:36:ARG:NH2	11:0S:271:ASP:OD1	2.30	0.64
10:0Q:73:LEU:HB2	10:0Q:167:PHE:HD1	1.63	0.64
8:1H:347:ARG:HA	8:1H:350:MET:HE2	1.80	0.64
19:1J:122:ARG:HH22	45:IE:218:ASP:HB3	1.63	0.64
13:1U:319:HIS:HE2	13:1U:340:SER:HG	1.41	0.64
4:2D:187:PHE:HB2	46:FJ:322:SER:HB3	1.78	0.64
22:2M:325:ASP:HB3	22:2M:328:ILE:HG12	1.79	0.64
23:2O:239:ILE:HG13	46:VJ:276:ARG:HH12	1.62	0.64
24:2P:394:GLN:O	24:2P:397:VAL:HG22	1.98	0.64
25:2R:429:GLU:HG3	46:FH:280:GLN:HE21	1.62	0.64
16:3B:238:TYR:HA	45:JG:84:ARG:NH1	2.06	0.64
21:3L:70:LEU:HA	21:3L:73:LEU:HD13	1.78	0.64
21:3L:173:GLN:HG3	21:3L:176:ARG:HH21	1.63	0.64
14:3V:127:GLN:O	14:3V:128:GLN:HG2	1.98	0.64
35:4S:193:PHE:HB3	35:4S:214:LEU:HD12	1.78	0.64
40:6G:201:MET:O	46:VF:336:LYS:NZ	2.30	0.64
45:AC:76:ASP:OD1	45:AC:79:ARG:NH2	2.31	0.64
45:AE:115:VAL:HG11	45:AE:152:LEU:HD23	1.79	0.64
45:BA:101:ASN:HA	45:BA:144:GLY:H	1.62	0.64
45:BM:287:SER:N	45:BM:290:GLU:OE1	2.29	0.64
46:DB:268:ILE:HG13	46:DB:300:MET:HG3	1.80	0.64
46:DJ:376:GLU:OE1	46:DJ:380:ARG:NH2	2.30	0.64
46:DL:309:ARG:NH2	46:DL:426:GLN:O	2.28	0.64
46:DN:73:MET:HA	46:DN:76:VAL:HG12	1.79	0.64
45:EC:11:GLN:NE2	47:EC:501:GTP:O3A	2.29	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EI:226:ASN:ND2	45:EI:367:ASP:OD2	2.29	0.64
46:FF:242:PHE:HB3	46:FF:356:ILE:HD13	1.80	0.64
46:FH:289:LEU:HD13	46:FH:365:VAL:HG23	1.78	0.64
46:GF:371:SER:O	46:GF:422:TYR:OH	2.15	0.64
45:GK:328:VAL:HG11	45:GK:353:VAL:HG21	1.79	0.64
46:ID:109:GLY:HA2	46:ID:147:MET:HE2	1.79	0.64
45:IG:121:ARG:NH1	45:IG:124:LYS:HE3	2.12	0.64
46:JH:31:ASP:OD1	46:JH:35:THR:N	2.27	0.64
45:LC:206:ASN:OD1	47:LC:501:GTP:N2	2.31	0.64
46:LF:166:THR:OG1	46:LF:199:CYS:SG	2.55	0.64
45:MC:91:GLN:HG2	45:MC:121:ARG:HD2	1.80	0.64
45:ME:60:LYS:NZ	45:ME:85:GLN:O	2.28	0.64
46:NH:68:LEU:HD13	46:NH:93:GLY:HA3	1.79	0.64
46:OD:154:LYS:HA	46:OD:154:LYS:HE3	1.80	0.64
45:PA:268:MET:HE2	45:PA:380:ASN:HB2	1.80	0.64
46:PD:293:MET:HG2	46:PD:365:VAL:HG11	1.79	0.64
46:QD:260:PHE:HB2	46:QD:263:LEU:HD13	1.79	0.64
46:QD:284:LEU:HD11	46:QD:362:LYS:HG2	1.80	0.64
46:QF:86:ARG:NH2	46:RF:281:TYR:O	2.31	0.64
45:RA:254:GLU:OE1	45:RA:257:THR:OG1	2.16	0.64
46:RB:5:VAL:HG12	46:RB:62:ARG:HD3	1.79	0.64
46:SH:267:MET:HB2	46:SH:299:MET:HE2	1.78	0.64
46:TH:284:LEU:HD12	46:TH:289:LEU:HD11	1.78	0.64
46:TL:97:ALA:HA	46:TL:103:LYS:NZ	2.13	0.64
46:TL:258:ILE:H	45:TM:407:TRP:HH2	1.45	0.64
45:UC:75:ILE:HD12	45:UC:92:LEU:HB3	1.78	0.64
46:VB:318:ARG:HG2	46:VB:357:PRO:HA	1.80	0.64
45:VK:209:ILE:HD13	45:VK:302:MET:HG3	1.77	0.64
45:VK:256:GLN:O	46:VN:397:TRP:NE1	2.29	0.64
46:WH:178:THR:HG22	46:WH:180:VAL:H	1.63	0.64
45:WK:140:SER:OG	47:WK:501:GTP:O2B	2.16	0.64
11:0S:256:LEU:HA	11:0S:259:PHE:HD2	1.63	0.64
12:0T:50:GLU:O	12:0T:53:ARG:HG2	1.97	0.64
11:1S:265:CYS:HB2	11:1S:283:LEU:HD11	1.79	0.64
23:2O:426:GLU:HA	23:2O:429:LYS:HE2	1.79	0.64
35:4S:150:LEU:HB3	35:4S:189:VAL:HG11	1.80	0.64
37:5G:172:ASN:HB2	37:5G:176:ASP:HB3	1.78	0.64
37:5H:111:ASN:HB3	46:NN:44:LEU:HD13	1.78	0.64
10:6Q:41:ASP:OD2	10:6Q:81:LYS:NZ	2.31	0.64
34:6R:256:LEU:HD23	34:6R:280:LEU:HD23	1.80	0.64
34:6R:415:LYS:NZ	34:6R:451:ASP:OD2	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:8R:154:ALA:HA	44:8R:157:TYR:CE1	2.31	0.64
45:AA:145:THR:OG1	47:AA:501:GTP:O1B	2.16	0.64
46:AF:167:PHE:CE1	46:AF:233:MET:HG2	2.32	0.64
45:AG:226:ASN:ND2	45:AG:367:ASP:OD2	2.30	0.64
46:AL:222:TYR:O	46:AL:226:ASN:ND2	2.20	0.64
46:BN:274:THR:HB	46:BN:282:ARG:HH11	1.63	0.64
46:CL:274:THR:OG1	46:CL:279:GLN:OE1	2.15	0.64
46:DD:73:MET:HA	46:DD:76:VAL:HG12	1.80	0.64
46:EL:97:ALA:HB3	46:EL:143:THR:HG22	1.79	0.64
45:FE:336:LYS:O	45:FE:339:ARG:NH2	2.31	0.64
46:GD:321:MET:HE2	46:GD:363:MET:HE1	1.79	0.64
45:GE:313:MET:HE3	45:GE:382:THR:HG22	1.78	0.64
46:GL:202:ILE:HD11	46:GL:268:ILE:HD11	1.78	0.64
46:GN:260:PHE:HB2	46:GN:263:LEU:HD13	1.79	0.64
46:HN:203:ASP:OD2	46:HN:302:ALA:N	2.24	0.64
46:IF:372:THR:HA	46:IF:422:TYR:HE2	1.62	0.64
45:IK:175:PRO:HG2	45:IK:304:LYS:HG2	1.80	0.64
46:IL:174:LYS:HA	46:IL:174:LYS:HE3	1.79	0.64
45:JI:254:GLU:OE1	45:JI:352:LYS:NZ	2.30	0.64
46:KH:156:ARG:NH1	46:KH:197:ASP:OD2	2.30	0.64
45:KK:51:THR:HG21	45:KK:243:ARG:HD3	1.77	0.64
46:MN:103:LYS:HA	46:MN:107:THR:HG22	1.79	0.64
46:NB:178:THR:HB	46:NB:181:GLU:HG3	1.79	0.64
46:ND:117:LEU:HD21	46:ND:154:LYS:HE2	1.78	0.64
46:NH:344:TRP:HB3	46:NH:430:ALA:HB2	1.80	0.64
45:OA:294:SER:O	45:OA:300:ASN:ND2	2.28	0.64
46:OD:286:VAL:HG23	46:OD:287:PRO:HD3	1.80	0.64
46:PD:282:ARG:NH2	46:PD:292:GLN:OE1	2.29	0.64
45:QC:224:TYR:HD1	45:QC:227:LEU:HD12	1.63	0.64
45:QE:259:LEU:HD13	45:QE:268:MET:HE1	1.80	0.64
45:QM:304:LYS:HD2	45:QM:304:LYS:O	1.97	0.64
46:RB:139:LEU:HD22	46:RB:170:VAL:HG12	1.78	0.64
45:SE:280:LYS:HA	45:SE:283:HIS:CD2	2.30	0.64
45:SI:64:ARG:NH1	45:SI:129:CYS:SG	2.71	0.64
45:TG:98:ASP:O	45:TG:105:ARG:NH1	2.30	0.64
46:TH:286:VAL:HG22	46:TH:363:MET:HE1	1.80	0.64
46:UB:251:ARG:HE	45:UC:105:ARG:HH22	1.45	0.64
45:UC:316:SER:HA	45:UC:352:LYS:HB3	1.79	0.64
46:UJ:86:ARG:HB3	46:UJ:89:ASN:ND2	2.12	0.64
46:VB:148:GLY:O	46:VB:152:ILE:HG12	1.97	0.64
46:VD:273:LEU:H	46:VD:292:GLN:HE22	1.46	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VD:372:THR:HA	46:VD:422:TYR:HE2	1.61	0.64
46:VF:16:ILE:HD12	46:VF:229:VAL:HG11	1.80	0.64
46:VH:143:THR:OG1	49:VH:501:GDP:O1B	2.16	0.64
45:WG:212:ILE:HD11	45:WG:300:ASN:HA	1.78	0.64
4:0D:224:ARG:NH2	34:7R:492:ILE:O	2.30	0.64
21:1L:269:ASN:HA	21:1L:272:ILE:HG22	1.79	0.64
1:2A:36:ARG:HD2	46:MJ:42:LEU:HD11	1.79	0.64
20:2K:266:LEU:HD13	45:GK:370:LYS:HE3	1.79	0.64
23:2O:400:GLN:O	23:2O:404:GLN:NE2	2.31	0.64
1:3A:138:TRP:CZ3	45:AM:81:GLY:HA2	2.32	0.64
10:3Q:71:ILE:HG21	10:3Q:167:PHE:CD2	2.33	0.64
13:3U:147:ASP:OD2	13:3U:168:ASN:ND2	2.30	0.64
13:3U:307:THR:O	13:3U:308:GLU:HG3	1.97	0.64
37:5F:206:VAL:O	45:LG:430:LYS:NZ	2.30	0.64
46:AB:58:ARG:HH22	46:BB:281:TYR:HA	1.62	0.64
46:AH:96:GLY:O	46:AH:103:LYS:NZ	2.31	0.64
46:BF:318:ARG:HB3	46:BF:357:PRO:HA	1.78	0.64
46:DD:8:GLN:NE2	46:DD:14:ASN:OD1	2.31	0.64
46:DL:66:MET:HE2	46:DL:147:MET:HE2	1.80	0.64
46:EB:2:ARG:NH2	45:EC:96:LYS:O	2.30	0.64
46:EJ:1:MET:HG3	46:EJ:2:ARG:HG3	1.79	0.64
46:EL:237:THR:HG23	46:EL:241:ARG:HH21	1.61	0.64
45:HI:377:MET:HE1	45:HI:379:SER:HB3	1.80	0.64
45:HK:377:MET:HE1	45:HK:379:SER:HB3	1.80	0.64
45:IC:336:LYS:HD3	45:IC:351:PHE:HE2	1.62	0.64
46:JB:235:GLY:HA3	46:JB:366:THR:HG21	1.77	0.64
45:JE:88:HIS:CE1	45:JE:90:GLU:HG2	2.33	0.64
45:JM:123:ARG:NH2	45:JM:161:TYR:OH	2.30	0.64
45:LC:269:LEU:HD22	45:LC:384:ILE:HD11	1.80	0.64
46:LJ:6:HIS:NE2	46:LJ:8:GLN:OE1	2.29	0.64
46:LL:207:LEU:HD23	46:LL:225:LEU:HB3	1.80	0.64
46:MB:222:TYR:O	46:MB:226:ASN:ND2	2.26	0.64
46:MB:267:MET:HB2	46:MB:299:MET:CE	2.28	0.64
46:MJ:257:LEU:HD21	46:MJ:314:SER:HB2	1.79	0.64
45:NK:219:ILE:HG13	45:NK:221:ARG:H	1.63	0.64
45:OC:307:PRO:HB3	45:OC:312:TYR:HE1	1.62	0.64
45:OG:292:THR:HG21	45:OG:331:SER:HB3	1.80	0.64
46:ON:254:ALA:O	46:ON:258:ILE:HG22	1.98	0.64
45:QC:55:GLU:HG3	45:QC:57:GLY:H	1.62	0.64
45:QC:400:ALA:O	45:QC:402:ARG:NH1	2.31	0.64
46:RJ:207:LEU:HD13	46:RJ:225:LEU:HB2	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SK:238:LEU:HD13	45:SK:318:MET:HE1	1.79	0.64
46:TH:242:PHE:HB3	46:TH:356:ILE:HD13	1.80	0.64
46:TL:322:SER:OG	45:TM:221:ARG:NH2	2.31	0.64
46:TN:200:MET:HE3	46:TN:268:ILE:HG21	1.80	0.64
45:VA:216:ASN:ND2	45:VA:275:ILE:O	2.31	0.64
45:VK:133:GLN:HB3	45:VK:252:ILE:HD11	1.80	0.64
46:VL:222:TYR:O	46:VL:226:ASN:ND2	2.24	0.64
46:WB:267:MET:HE1	46:WB:301:CYS:HB2	1.79	0.64
4:0D:81:ARG:HH12	46:EB:360:GLY:H	1.44	0.64
4:0D:95:GLN:HB3	4:0D:97:LEU:HD23	1.79	0.64
8:1H:32:GLN:HA	8:1H:35:TYR:HB2	1.80	0.64
8:1H:188:LYS:HB2	8:1H:189:LYS:NZ	2.12	0.64
24:1P:311:ILE:HD12	24:1P:315:ARG:HH12	1.62	0.64
5:2E:10:ASN:HA	5:2E:13:ARG:NE	2.13	0.64
21:2L:734:VAL:HG21	21:2L:739:LEU:HD21	1.80	0.64
23:2O:486:GLU:OE1	23:2O:489:ARG:NH1	2.31	0.64
16:3B:129:ALA:O	16:3B:134:ARG:NH1	2.31	0.64
13:3U:403:ALA:O	13:3U:430:ARG:NH1	2.31	0.64
36:5C:125:GLN:O	46:NL:276:ARG:NH1	2.31	0.64
36:5D:43:CYS:SG	46:KN:391:ARG:NE	2.71	0.64
34:6R:128:HIS:HE1	34:6R:143:VAL:HG23	1.62	0.64
45:BI:329:ASN:HD21	46:BL:175:VAL:HG12	1.63	0.64
46:BJ:67:ASP:OD1	46:BJ:68:LEU:N	2.28	0.64
45:BM:64:ARG:NH1	45:BM:129:CYS:SG	2.71	0.64
46:CH:287:PRO:HA	46:CH:329:GLN:HE22	1.62	0.64
45:CM:284:GLU:HG2	45:CM:286:LEU:HD22	1.79	0.64
45:DG:36:MET:HG3	45:DG:38:SER:H	1.62	0.64
45:EG:363:VAL:HG13	45:EG:366:GLY:HA3	1.79	0.64
45:EM:284:GLU:HG2	45:EM:286:LEU:HD12	1.80	0.64
46:FH:16:ILE:HD12	46:FH:229:VAL:HG11	1.79	0.64
46:GF:207:LEU:HB3	46:GF:225:LEU:HD22	1.79	0.64
45:GI:221:ARG:NH1	46:GJ:325:GLU:OE1	2.31	0.64
46:HH:309:ARG:NH1	46:HH:339:SER:O	2.31	0.64
45:IG:258:ASN:ND2	45:IG:352:LYS:HE3	2.13	0.64
45:KA:387:VAL:HG12	45:KA:390:ARG:HH22	1.63	0.64
46:KB:62:ARG:NH1	46:KB:127:CYS:SG	2.70	0.64
45:KE:116:ASP:OD1	45:KE:117:LEU:N	2.31	0.64
46:LJ:67:ASP:O	46:LJ:92:PHE:HA	1.97	0.64
46:ND:318:ARG:HB3	46:ND:357:PRO:HA	1.77	0.64
46:OJ:232:ALA:HB1	46:OJ:268:ILE:HG21	1.80	0.64
45:PI:90:GLU:OE2	45:PI:121:ARG:NH2	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QK:167:LEU:HD22	45:QK:200:VAL:HB	1.78	0.64
45:RA:188:ILE:HD12	45:RA:425:LEU:HD11	1.80	0.64
46:RH:73:MET:HA	46:RH:76:VAL:HG22	1.78	0.64
45:RM:8:HIS:CE1	45:RM:138:PHE:HD2	2.16	0.64
46:SF:347:ASN:ND2	45:SG:176:GLN:O	2.31	0.64
46:SH:317:PHE:HB3	46:SH:321:MET:HE1	1.78	0.64
46:UD:32:PRO:O	46:UD:83:GLN:NE2	2.31	0.64
45:UE:33:ASP:O	45:UE:60:LYS:NZ	2.27	0.64
45:UE:276:ILE:HD11	45:UE:280:LYS:HG3	1.79	0.64
46:UL:214:THR:O	46:UL:216:LYS:NZ	2.30	0.64
46:WB:65:LEU:HB3	46:WB:73:MET:HE2	1.78	0.64
45:WG:288:VAL:HG11	45:WG:327:ASP:HB3	1.80	0.64
45:WI:55:GLU:HG3	45:WI:57:GLY:H	1.63	0.64
46:WN:267:MET:HE1	46:WN:301:CYS:N	2.12	0.64
8:0H:372:GLU:HA	8:0H:375:GLU:HG2	1.80	0.64
8:0H:406:TYR:HD2	8:1H:79:ILE:HD13	1.62	0.64
16:1B:357:LYS:O	16:1B:361:LYS:HG2	1.98	0.64
4:1D:81:ARG:HH21	46:EF:357:PRO:HG2	1.63	0.64
19:1J:122:ARG:HE	19:1J:123:MET:N	1.95	0.64
19:1J:244:LEU:HD22	45:II:221:ARG:HD3	1.79	0.64
20:1K:94:TYR:O	20:1K:98:ILE:HG12	1.98	0.64
21:1L:144:LYS:NZ	21:1L:215:VAL:O	2.31	0.64
12:1T:3:LEU:HA	12:1T:6:ILE:HD12	1.78	0.64
21:2L:620:LEU:HD23	21:2L:624:GLU:HG3	1.80	0.64
14:2V:141:ASN:ND2	45:LG:402:ARG:O	2.31	0.64
12:3T:97:ARG:HH12	45:MK:416:GLY:HA3	1.63	0.64
14:3V:105:LYS:HZ2	14:3V:107:ALA:HB3	1.63	0.64
14:3V:228:HIS:CE1	46:VD:77:ARG:HG3	2.33	0.64
27:4C:117:GLU:OE2	27:4C:119:LYS:NZ	2.31	0.64
10:4Q:102:ARG:HD2	10:4Q:118:ILE:HG13	1.80	0.64
37:5H:110:ARG:HD3	37:5H:112:ALA:H	1.63	0.64
10:6Q:74:PRO:HB3	10:6Q:148:TYR:CE2	2.33	0.64
34:6R:153:GLN:HE21	34:6R:156:SER:HB2	1.63	0.64
45:AE:179:THR:HG21	46:AF:246:LEU:HD22	1.79	0.64
45:AE:288:VAL:HG11	45:AE:327:ASP:HB3	1.80	0.64
46:CL:47:ILE:HD12	46:CL:59:TYR:HE2	1.63	0.64
45:EC:294:SER:O	45:EC:300:ASN:ND2	2.29	0.64
45:EC:301:MET:HG3	45:EC:303:ALA:H	1.62	0.64
45:EK:9:VAL:HG12	45:EK:68:LEU:HB2	1.78	0.64
46:FJ:213:ARG:O	46:FJ:216:LYS:NZ	2.23	0.64
46:FJ:269:GLY:HA2	46:FJ:300:MET:HE2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GD:118:ASP:OD1	46:GD:121:ARG:NH2	2.31	0.64
46:GF:77:ARG:NH2	46:GF:83:GLN:OE1	2.30	0.64
45:HG:88:HIS:HA	45:IG:280:LYS:NZ	2.13	0.64
45:IC:104:ALA:HB2	45:IC:413:MET:HE2	1.80	0.64
46:JL:268:ILE:HG22	46:JL:368:VAL:HG12	1.78	0.64
46:KB:235:GLY:HA3	46:KB:366:THR:HG21	1.80	0.64
46:KB:285:THR:HA	46:KB:363:MET:HE1	1.80	0.64
45:KE:167:LEU:HD23	45:KE:200:VAL:HB	1.81	0.64
46:KN:262:ARG:NH2	46:KN:414:ASN:OD1	2.31	0.64
45:LK:207:GLU:HA	45:LK:210:TYR:HD2	1.63	0.64
45:ME:371:VAL:HG12	45:ME:373:ARG:H	1.62	0.64
45:MI:226:ASN:ND2	45:MI:367:ASP:OD2	2.31	0.64
46:NH:163:ILE:HD13	46:NH:251:ARG:HG2	1.80	0.64
45:NK:414:GLU:OE1	45:NK:416:GLY:N	2.25	0.64
46:NL:67:ASP:O	46:NL:92:PHE:HA	1.98	0.64
45:OC:268:MET:HG3	45:OC:380:ASN:HB2	1.80	0.64
46:PH:12:CYS:O	46:PH:16:ILE:HG12	1.98	0.64
45:QM:294:SER:O	45:QM:300:ASN:ND2	2.31	0.64
46:QN:100:ASN:ND2	46:QN:401:GLU:OE1	2.31	0.64
45:RM:121:ARG:HH12	45:RM:124:LYS:HE2	1.62	0.64
46:SJ:374:ILE:HG12	46:SJ:378:PHE:HE2	1.62	0.64
46:VF:5:VAL:HG12	46:VF:62:ARG:HD3	1.80	0.64
45:VK:337:THR:O	45:VK:339:ARG:NH1	2.31	0.64
46:WD:45:GLU:HG3	46:WD:46:ARG:HG2	1.78	0.64
6:0F:122:LEU:HD22	41:6H:224:SER:HB3	1.81	0.63
1:1A:73:ALA:HB3	1:1A:78:ILE:HD11	1.80	0.63
17:1F:145:SER:OG	46:GL:74:ASP:OD1	2.15	0.63
19:1J:158:GLN:OE1	39:6F:127:TRP:NE1	2.31	0.63
23:1O:118:GLU:HA	23:1O:121:VAL:HG22	1.80	0.63
11:1S:96:LEU:HD11	46:MF:190:HIS:HE1	1.62	0.63
27:2C:6:VAL:HG11	15:4X:69:ALA:HB1	1.79	0.63
12:2T:139:TYR:O	45:MG:163:LYS:NZ	2.31	0.63
25:3R:462:LYS:HE3	25:3R:462:LYS:HA	1.80	0.63
35:4S:213:ASN:OD1	35:4S:214:LEU:N	2.31	0.63
37:5G:209:ARG:NH2	45:LK:264:ARG:HE	1.96	0.63
35:5S:183:TYR:CE1	35:5S:225:LEU:HD21	2.34	0.63
34:6R:593:ASP:OD2	34:6R:598:TRP:N	2.30	0.63
45:AI:430:LYS:HA	45:AI:433:GLU:HG3	1.81	0.63
45:BI:313:MET:HE3	45:BI:382:THR:HG22	1.77	0.63
46:BL:257:LEU:HD11	46:BL:314:SER:HB2	1.80	0.63
45:CG:140:SER:OG	47:CG:501:GTP:O2B	2.16	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CH:67:ASP:OD1	46:CH:68:LEU:N	2.29	0.63
45:CK:352:LYS:HE3	46:CL:179:VAL:HG13	1.80	0.63
45:DA:60:LYS:NZ	45:DA:85:GLN:O	2.31	0.63
45:DA:254:GLU:HG2	46:DB:98:GLY:HA2	1.80	0.63
45:FA:398:MET:HE1	46:FB:345:ILE:HA	1.79	0.63
46:FL:200:MET:HE1	46:FL:266:PHE:HD2	1.62	0.63
46:FL:362:LYS:HG3	46:FL:363:MET:SD	2.38	0.63
46:GB:248:SER:HA	46:GB:252:LYS:HG3	1.79	0.63
46:GF:73:MET:HE1	46:GF:92:PHE:CG	2.33	0.63
45:HG:257:THR:HA	46:HJ:397:TRP:HH2	1.62	0.63
46:HH:26:ASP:O	46:HH:359:LYS:NZ	2.27	0.63
46:HH:167:PHE:CD2	46:HH:233:MET:HE2	2.32	0.63
46:HL:267:MET:HE1	46:HL:305:PRO:HB3	1.80	0.63
46:IL:67:ASP:OD2	46:IL:68:LEU:N	2.30	0.63
45:KG:157:LEU:HD11	45:KG:166:LYS:HD3	1.80	0.63
45:KG:210:TYR:HE1	46:KH:324:LYS:HB3	1.63	0.63
45:KM:72:PRO:HG2	46:KN:1:MET:HE2	1.79	0.63
46:KN:55:THR:HG23	46:LN:283:ALA:HA	1.79	0.63
45:MG:265:ILE:HG12	45:MG:432:TYR:HE2	1.61	0.63
45:NI:256:GLN:HG2	46:NL:397:TRP:HH2	1.64	0.63
45:OA:271:SER:HB2	45:OA:377:MET:HB3	1.80	0.63
45:PC:30:ILE:HG21	45:PC:53:PHE:HE2	1.62	0.63
45:PE:88:HIS:CD2	45:QE:280:LYS:HE2	2.32	0.63
45:PI:292:THR:HG21	45:PI:331:SER:HB3	1.78	0.63
46:QB:190:HIS:CE1	46:QB:414:ASN:HD22	2.16	0.63
46:QD:350:LYS:HD3	45:QE:180:ALA:HA	1.80	0.63
46:RD:250:LEU:HA	46:RD:253:LEU:HD12	1.80	0.63
45:SC:11:GLN:NE2	47:SC:501:GTP:O3A	2.31	0.63
45:SC:214:ARG:HH11	45:SC:214:ARG:HA	1.61	0.63
45:SE:48:ALA:HB1	45:SE:243:ARG:HB2	1.80	0.63
45:SG:155:GLU:OE1	45:SG:197:HIS:NE2	2.31	0.63
46:SL:32:PRO:HG3	46:SL:81:PHE:HE1	1.63	0.63
46:SL:258:ILE:HG13	45:SM:407:TRP:HZ2	1.61	0.63
46:TL:222:TYR:O	46:TL:226:ASN:ND2	2.27	0.63
45:UA:271:SER:OG	45:UA:301:MET:SD	2.56	0.63
46:UF:296:ALA:HB3	46:UF:297:LYS:HZ2	1.62	0.63
45:VE:221:ARG:NH2	46:VF:322:SER:H	1.96	0.63
46:VF:389:PHE:HZ	46:VF:405:GLU:HG3	1.62	0.63
45:VI:211:ASP:OD1	45:VI:214:ARG:NH2	2.31	0.63
5:0E:127:ASP:O	5:0E:133:LYS:NZ	2.27	0.63
6:0F:115:LEU:HG	6:0F:119:LYS:NZ	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:1H:60:ARG:HH12	46:HN:32:PRO:HB2	1.62	0.63
23:1O:181:MET:HA	23:1O:184:GLU:HG2	1.79	0.63
26:1W:165:ILE:HD13	46:LD:279:GLN:HE22	1.62	0.63
15:1X:1:MET:HA	15:1X:1:MET:HE3	1.80	0.63
20:2K:318:GLN:NE2	20:2K:319:GLU:OE1	2.31	0.63
21:2L:880:LYS:HE3	21:2L:892:ARG:HD2	1.79	0.63
23:2O:235:MET:O	23:2O:239:ILE:HD12	1.98	0.63
24:2P:370:LYS:HZ2	24:2P:371:ARG:HH12	1.45	0.63
12:2T:146:MET:HA	12:2T:146:MET:HE3	1.79	0.63
13:2U:212:THR:HG22	13:2U:214:THR:H	1.62	0.63
21:3L:150:ARG:NH1	21:3L:182:SER:OG	2.30	0.63
10:3Q:177:LEU:O	10:3Q:182:LYS:NZ	2.29	0.63
25:3R:17:ILE:HD11	15:3X:88:PHE:HE1	1.63	0.63
12:3T:68:GLY:HA2	12:3T:112:PRO:HA	1.80	0.63
33:4F:173:PRO:O	33:4F:176:LYS:NZ	2.32	0.63
34:4R:357:LYS:NZ	34:4R:368:GLN:O	2.30	0.63
37:5G:135:LYS:HA	37:5G:135:LYS:HE3	1.80	0.63
38:5J:46:UNK:O	45:JE:430:LYS:NZ	2.31	0.63
45:AC:371:VAL:HG12	45:AC:373:ARG:H	1.63	0.63
46:AJ:167:PHE:CE2	46:AJ:233:MET:HG2	2.34	0.63
46:BB:237:THR:HG23	46:BB:241:ARG:HH21	1.64	0.63
46:BF:273:LEU:H	46:BF:292:GLN:HE22	1.45	0.63
45:BI:111:GLY:O	45:BI:115:VAL:HG13	1.98	0.63
45:CA:135:PHE:HB2	45:CA:166:LYS:HG2	1.80	0.63
46:CF:226:ASN:HD21	49:CF:501:GDP:HN1	1.46	0.63
46:CF:325:GLU:OE1	45:CG:221:ARG:NH1	2.30	0.63
45:DA:209:ILE:HG12	45:DA:302:MET:SD	2.38	0.63
45:DG:205:ASP:OD1	45:DG:303:ALA:HA	1.98	0.63
46:DL:164:MET:HE3	46:DL:196:ALA:HA	1.80	0.63
46:EF:139:LEU:HD22	46:EF:170:VAL:HG12	1.80	0.63
46:EH:304:ASP:OD1	46:EH:306:ARG:NH1	2.31	0.63
46:EN:294:PHE:CD2	46:EN:333:VAL:HG11	2.32	0.63
46:FJ:316:LEU:HG	46:FJ:352:SER:HB2	1.80	0.63
46:GB:207:LEU:HB3	46:GB:225:LEU:HD22	1.80	0.63
46:IH:226:ASN:HD21	49:IH:501:GDP:HN1	1.45	0.63
45:KC:64:ARG:NH1	45:KC:129:CYS:SG	2.72	0.63
45:KM:308:ARG:HG3	45:NM:282:TYR:OH	1.99	0.63
45:LC:294:SER:HA	45:LC:297:GLU:HG2	1.80	0.63
45:LE:286:LEU:N	45:LE:290:GLU:OE2	2.30	0.63
45:MM:108:TYR:O	45:MM:112:LYS:NZ	2.27	0.63
46:NL:285:THR:N	46:NL:288:GLU:OE2	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NM:265:ILE:HG22	45:NM:380:ASN:HD21	1.62	0.63
45:OA:210:TYR:HB3	45:OA:214:ARG:HH22	1.63	0.63
45:OE:208:ALA:HB2	45:OE:304:LYS:HG3	1.80	0.63
46:OJ:19:LYS:HG3	46:OJ:226:ASN:HB3	1.80	0.63
46:OJ:318:ARG:HB3	46:OJ:357:PRO:HA	1.79	0.63
46:PN:48:ASN:O	46:PN:62:ARG:NH1	2.32	0.63
46:RF:61:PRO:HG2	46:RF:85:PHE:HA	1.80	0.63
46:RJ:267:MET:HE1	46:RJ:299:MET:HG3	1.79	0.63
45:RK:7:ILE:HD11	45:RK:137:VAL:HG12	1.79	0.63
46:SF:256:ASN:HD22	46:SF:350:LYS:HD2	1.63	0.63
46:SF:344:TRP:CD1	45:SG:401:LYS:HZ1	2.16	0.63
46:SL:222:TYR:O	46:SL:226:ASN:ND2	2.26	0.63
46:TH:26:ASP:O	46:TH:359:LYS:NZ	2.25	0.63
46:TH:113:ILE:HG21	46:TH:150:LEU:HD22	1.80	0.63
46:TL:31:ASP:OD1	46:TL:35:THR:N	2.25	0.63
46:UL:258:ILE:HD12	46:UL:264:HIS:HB3	1.80	0.63
46:VH:77:ARG:NH2	46:VH:83:GLN:OE1	2.31	0.63
46:VN:46:ARG:HH21	46:VN:48:ASN:HB3	1.62	0.63
45:WG:268:MET:HE2	45:WG:378:ILE:HG22	1.80	0.63
46:WH:222:TYR:O	46:WH:226:ASN:ND2	2.24	0.63
11:0S:249:VAL:HA	11:0S:252:TYR:CE2	2.34	0.63
12:0T:146:MET:HE3	46:MB:402:GLY:HA2	1.79	0.63
13:0U:569:TYR:OH	13:0U:607:GLU:OE2	2.15	0.63
21:1L:734:VAL:HG23	21:1L:735:ASP:H	1.64	0.63
12:1T:185:LEU:HB2	12:1T:196:VAL:HG12	1.78	0.63
14:1V:250:GLN:NE2	14:1V:254:ASP:OD2	2.30	0.63
26:1W:239:ARG:HG2	46:LB:279:GLN:HE21	1.63	0.63
9:2N:88:ASN:ND2	9:2N:91:ASP:OD2	2.31	0.63
16:3B:17:GLN:NE2	16:3B:60:LEU:HG	2.14	0.63
16:3B:202:VAL:H	16:3B:266:LYS:HE3	1.62	0.63
23:3O:246:GLU:HB2	46:UN:276:ARG:NH2	2.13	0.63
34:4R:318:TYR:OH	46:CF:274:THR:N	2.30	0.63
15:4X:126:ARG:HA	15:4X:129:ILE:HG12	1.81	0.63
36:5C:150:PHE:HE1	45:NK:26:LEU:HD11	1.63	0.63
37:5H:41:THR:HG23	45:OK:372:MET:HE3	1.78	0.63
34:7R:397:SER:HG	46:EB:276:ARG:HE	1.45	0.63
46:BF:130:LEU:HB3	46:BF:162:ARG:HE	1.62	0.63
45:BI:210:TYR:CG	46:BJ:324:LYS:HE3	2.33	0.63
46:BL:245:GLN:HE21	46:BL:245:GLN:HA	1.63	0.63
45:CC:172:TYR:HB2	45:CC:203:MET:HE1	1.80	0.63
46:CJ:95:THR:OG1	46:CJ:108:GLU:OE1	2.15	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DD:178:THR:HB	46:DD:181:GLU:HG3	1.80	0.63
45:FA:406:HIS:HE2	46:FB:261:PRO:HD3	1.63	0.63
45:FC:254:GLU:HG2	46:FF:98:GLY:HA2	1.79	0.63
45:GE:324:VAL:HG12	45:GE:326:LYS:H	1.63	0.63
45:IC:226:ASN:ND2	45:IC:367:ASP:OD2	2.31	0.63
45:IG:91:GLN:HB3	45:IG:121:ARG:HH21	1.63	0.63
46:IH:164:MET:HB3	46:IH:197:ASP:H	1.63	0.63
45:IK:173:PRO:O	45:IK:390:ARG:NH2	2.31	0.63
45:JA:189:LEU:HD21	45:JA:413:MET:HE1	1.80	0.63
46:JN:202:ILE:HD11	46:JN:268:ILE:HD11	1.80	0.63
45:KA:11:GLN:HG3	45:KA:74:VAL:HG11	1.79	0.63
45:KA:36:MET:HB2	45:KA:61:HIS:HE1	1.63	0.63
45:KE:288:VAL:HG11	45:KE:327:ASP:HB3	1.80	0.63
46:KF:284:LEU:HD11	46:KF:362:LYS:HB2	1.79	0.63
45:KI:116:ASP:OD1	45:KI:117:LEU:N	2.31	0.63
46:LB:262:ARG:NH1	46:LB:421:GLU:OE2	2.30	0.63
45:NM:210:TYR:CE2	46:NN:324:LYS:HB3	2.33	0.63
45:OA:50:ASN:O	45:OA:64:ARG:NH1	2.20	0.63
45:PG:121:ARG:HE	45:PG:124:LYS:HE2	1.64	0.63
46:PJ:236:VAL:HG23	46:PJ:237:THR:HG23	1.79	0.63
45:PM:288:VAL:HG21	45:PM:327:ASP:HB3	1.80	0.63
46:QF:49:VAL:HG23	46:QF:50:TYR:CD1	2.33	0.63
45:QI:271:SER:HA	45:QI:302:MET:HG3	1.80	0.63
46:QJ:22:GLU:HG2	46:QJ:81:PHE:HD1	1.63	0.63
46:QJ:54:ALA:HA	46:RJ:283:ALA:HB2	1.80	0.63
45:RA:226:ASN:OD1	45:RA:229:ARG:NH2	2.23	0.63
46:RL:314:SER:HA	46:RL:350:LYS:O	1.97	0.63
46:SH:259:PRO:HG2	46:SH:311:LEU:HD21	1.80	0.63
46:TB:252:LYS:NZ	47:TC:501:GTP:O1G	2.32	0.63
46:TL:2:ARG:HH22	45:TM:71:GLU:HA	1.64	0.63
45:UC:286:LEU:O	45:UC:373:ARG:NH2	2.31	0.63
45:UC:352:LYS:HZ3	46:UD:178:THR:HA	1.62	0.63
46:UJ:139:LEU:HD13	46:UJ:168:SER:HB3	1.79	0.63
45:UM:269:LEU:HD11	45:UM:384:ILE:HD13	1.79	0.63
46:WD:2:ARG:H	46:WD:129:CYS:HB3	1.61	0.63
45:WE:284:GLU:HG2	45:WE:286:LEU:HD22	1.80	0.63
46:WF:396:HIS:HA	46:WF:399:THR:HG22	1.81	0.63
45:WG:319:TYR:HB3	45:WG:323:VAL:HG11	1.79	0.63
45:DC:2:ARG:NH1	45:DC:242:LEU:O	2.31	0.63
2:0B:150:ASN:ND2	2:0B:150:ASN:O	2.30	0.63
12:0T:1:MET:HB2	12:0T:185:LEU:HA	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:1H:374:ARG:NH2	8:1H:377:GLU:OE1	2.24	0.63
23:2O:139:ASP:HB2	23:2O:142:GLU:OE2	1.98	0.63
25:2R:261:PHE:HB2	25:2R:271:LEU:HB2	1.79	0.63
14:2V:202:GLN:O	14:2V:206:ARG:NH1	2.32	0.63
26:2W:265:LEU:HD22	45:LK:370:LYS:NZ	2.13	0.63
25:3R:503:ASP:O	25:3R:506:THR:OG1	2.14	0.63
12:3T:132:PRO:HD3	45:MK:123:ARG:HH12	1.64	0.63
12:3T:277:THR:O	13:3U:41:ARG:NH2	2.31	0.63
13:3U:124:ASP:OD1	46:WN:276:ARG:NH2	2.32	0.63
13:3U:385:LYS:HB2	13:3U:387:ARG:NH1	2.13	0.63
37:5H:20:LEU:HD22	46:NL:45:GLU:HB3	1.80	0.63
40:6G:210:ARG:NH1	46:VF:296:ALA:O	2.32	0.63
46:AB:372:THR:OG1	46:AB:426:GLN:NE2	2.31	0.63
46:AD:68:LEU:HD12	46:AD:93:GLY:HA3	1.79	0.63
46:AJ:67:ASP:O	46:AJ:92:PHE:HA	1.96	0.63
45:BC:297:GLU:OE2	45:BC:300:ASN:ND2	2.32	0.63
45:BI:222:PRO:HG2	46:BJ:324:LYS:HE2	1.79	0.63
45:BM:276:ILE:HD12	45:BM:281:ALA:HA	1.80	0.63
46:CF:31:ASP:OD2	46:CF:37:HIS:ND1	2.31	0.63
46:DJ:68:LEU:HD21	46:DJ:147:MET:HE1	1.79	0.63
45:DM:104:ALA:HA	45:DM:413:MET:HE3	1.80	0.63
46:EJ:394:PHE:HA	46:EJ:397:TRP:HZ3	1.63	0.63
45:EM:256:GLN:HG3	46:EN:397:TRP:HE1	1.63	0.63
45:FA:254:GLU:HG2	46:FD:98:GLY:HA2	1.81	0.63
46:FB:245:GLN:HB2	46:FB:353:ILE:HB	1.80	0.63
45:GI:221:ARG:NH1	45:GI:221:ARG:HA	2.13	0.63
46:GN:173:PRO:HG2	46:GN:380:ARG:HD3	1.80	0.63
46:HB:207:LEU:HB3	46:HB:225:LEU:HD22	1.81	0.63
45:HE:352:LYS:NZ	46:HH:179:VAL:H	1.96	0.63
46:IB:318:ARG:HE	46:IB:358:PRO:HG3	1.63	0.63
46:ID:67:ASP:OD2	46:ID:72:THR:OG1	2.16	0.63
45:JA:298:PRO:HD2	45:JA:299:ALA:H	1.63	0.63
46:JN:256:ASN:ND2	46:JN:350:LYS:HE3	2.13	0.63
45:KG:56:THR:HG23	45:KG:58:ALA:H	1.63	0.63
45:LA:11:GLN:NE2	46:LB:245:GLN:O	2.31	0.63
45:LG:98:ASP:OD1	45:LG:99:ALA:N	2.32	0.63
45:MA:9:VAL:HG12	45:MA:68:LEU:HB2	1.81	0.63
46:MF:405:GLU:HA	46:MF:408:PHE:HD2	1.62	0.63
45:MK:48:ALA:HB1	45:MK:243:ARG:HB2	1.81	0.63
46:OB:328:GLU:O	46:OB:332:ASN:ND2	2.32	0.63
46:OD:182:PRO:HG3	46:OD:384:GLN:HG3	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OI:31:GLN:HG2	45:OI:37:PRO:HG3	1.81	0.63
45:PC:107:HIS:HA	45:PC:152:LEU:HD11	1.81	0.63
45:QE:88:HIS:HE1	45:QE:90:GLU:HB2	1.64	0.63
46:QF:309:ARG:NH2	46:QF:426:GLN:O	2.26	0.63
45:RC:244:PHE:HB2	45:RC:356:ASN:HD21	1.63	0.63
45:RG:254:GLU:OE2	45:RG:258:ASN:ND2	2.32	0.63
45:RK:244:PHE:HB2	45:RK:356:ASN:HD21	1.63	0.63
46:TB:86:ARG:NH1	46:TB:89:ASN:OD1	2.32	0.63
45:TC:241:SER:OG	45:TC:250:VAL:O	2.17	0.63
45:TC:389:SER:O	45:TC:393:HIS:ND1	2.28	0.63
45:TM:136:LEU:HD12	45:TM:169:PHE:HE2	1.64	0.63
45:UA:188:ILE:HD12	45:UA:425:LEU:HD11	1.80	0.63
46:UB:207:LEU:HB3	46:UB:225:LEU:HD22	1.80	0.63
46:UF:316:LEU:HD13	46:UF:352:SER:HB2	1.79	0.63
46:UJ:64:ILE:HD13	46:UJ:119:VAL:HG13	1.79	0.63
45:UM:358:GLN:NE2	45:UM:359:PRO:O	2.31	0.63
46:VL:285:THR:HB	46:VL:287:PRO:HD2	1.80	0.63
45:WA:188:ILE:HD12	45:WA:425:LEU:HD11	1.79	0.63
46:WB:318:ARG:HB3	46:WB:357:PRO:HA	1.80	0.63
45:WG:326:LYS:NZ	46:WJ:220:PRO:O	2.24	0.63
46:WL:236:VAL:HG13	46:WL:237:THR:HG23	1.79	0.63
2:0B:145:ARG:HH22	29:2G:68:ARG:HA	1.63	0.63
13:0U:403:ALA:O	13:0U:430:ARG:NH1	2.32	0.63
13:0U:504:GLN:OE1	13:0U:562:TYR:OH	2.16	0.63
4:1D:113:GLN:NE2	25:2R:513:ASN:O	2.31	0.63
4:1D:187:PHE:HB2	46:FF:322:SER:HB3	1.80	0.63
17:1F:31:PHE:HE2	8:1H:88:ARG:HH21	1.43	0.63
7:1G:103:THR:HG21	46:JB:243:PRO:HB2	1.81	0.63
19:1J:353:TYR:HB2	19:1J:360:GLN:NE2	2.14	0.63
9:1N:158:THR:HB	9:1N:161:LYS:HG2	1.79	0.63
22:2M:98:PRO:HB3	22:2M:154:ASP:HB2	1.78	0.63
22:2M:256:MET:O	22:2M:259:SER:OG	2.17	0.63
10:2Q:173:SER:OG	10:2Q:176:GLU:OE1	2.15	0.63
5:3E:45:ARG:HA	5:3E:48:PHE:HB3	1.80	0.63
11:3S:307:LYS:NZ	11:3S:313:TYR:O	2.25	0.63
13:3U:11:ILE:HB	13:3U:599:ILE:HB	1.79	0.63
36:5A:43:CYS:HA	36:5A:57:PRO:HA	1.79	0.63
34:5R:80:ARG:NH1	45:MI:38:SER:OG	2.30	0.63
41:6H:167:LYS:HE3	46:FB:361:LEU:HA	1.81	0.63
46:AJ:222:TYR:O	46:AJ:226:ASN:ND2	2.29	0.63
45:AM:402:ARG:HD3	45:AM:405:VAL:HG21	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BF:143:THR:OG1	49:BF:501:GDP:O1B	2.17	0.63
46:BL:58:ARG:HD2	46:CJ:280:GLN:HE22	1.63	0.63
46:BL:248:SER:HA	46:BL:252:LYS:HG3	1.81	0.63
46:CF:153:SER:HB2	46:CF:191:GLN:HE21	1.62	0.63
46:DJ:268:ILE:HG22	46:DJ:368:VAL:HG22	1.81	0.63
45:DK:88:HIS:ND1	45:DK:91:GLN:OE1	2.30	0.63
45:DK:255:PHE:O	45:DK:259:LEU:HB2	1.97	0.63
46:DN:222:TYR:O	46:DN:226:ASN:ND2	2.27	0.63
46:EN:83:GLN:O	46:FN:281:TYR:OH	2.16	0.63
46:FD:211:CYS:HB2	46:FD:217:LEU:HD21	1.79	0.63
45:GA:104:ALA:HB2	45:GA:413:MET:HE3	1.78	0.63
45:GC:90:GLU:OE1	45:GC:121:ARG:NH2	2.31	0.63
45:HI:102:ASN:HB3	45:HI:105:ARG:HG3	1.80	0.63
45:IE:207:GLU:OE2	45:IE:304:LYS:NZ	2.28	0.63
46:IF:148:GLY:O	46:IF:152:ILE:HG12	1.99	0.63
46:LB:31:ASP:OD1	46:LB:35:THR:N	2.31	0.63
47:LC:501:GTP:O1G	46:LD:252:LYS:NZ	2.32	0.63
46:LD:316:LEU:HD13	46:LD:352:SER:HB2	1.81	0.63
45:LG:104:ALA:HB2	45:LG:413:MET:HE3	1.81	0.63
46:MF:67:ASP:O	46:MF:92:PHE:HA	1.99	0.63
46:ND:257:LEU:HD21	46:ND:314:SER:HB3	1.80	0.63
46:OF:86:ARG:HD3	46:OF:87:PRO:HD2	1.81	0.63
45:OG:399:TYR:OH	45:OG:415:GLU:OE2	2.16	0.63
46:OL:213:ARG:HB3	46:OL:297:LYS:HZ1	1.63	0.63
45:OM:387:VAL:HA	45:OM:390:ARG:HG2	1.80	0.63
45:PG:248:LEU:HB3	45:PG:355:ILE:HG12	1.81	0.63
46:QB:266:PHE:CE1	46:QB:370:ASN:HB2	2.34	0.63
46:QH:208:TYR:HE1	46:QH:225:LEU:HD11	1.62	0.63
45:QK:26:LEU:HD13	45:QK:363:VAL:HG12	1.78	0.63
46:RD:387:ALA:HA	46:RD:390:ARG:HE	1.63	0.63
46:RF:297:LYS:HE3	46:RF:297:LYS:HA	1.81	0.63
45:SC:259:LEU:HD21	45:SC:268:MET:HE2	1.80	0.63
46:TB:66:MET:HE1	46:TB:147:MET:HG3	1.81	0.63
46:TB:257:LEU:HD11	46:TB:314:SER:HB3	1.79	0.63
45:TK:89:PRO:HD2	45:UK:280:LYS:HZ2	1.63	0.63
45:TK:226:ASN:ND2	45:TK:367:ASP:OD2	2.31	0.63
45:UA:272:TYR:HB3	45:UA:275:ILE:HD11	1.79	0.63
46:UB:318:ARG:HG2	46:UB:357:PRO:HA	1.80	0.63
45:UC:101:ASN:HA	45:UC:144:GLY:H	1.62	0.63
46:UF:68:LEU:HB3	46:UF:96:GLY:HA2	1.81	0.63
46:UH:189:VAL:HA	46:UH:192:LEU:HB2	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UH:222:TYR:O	46:UH:226:ASN:ND2	2.26	0.63
46:VH:1:MET:HG2	46:VH:2:ARG:H	1.61	0.63
46:VH:207:LEU:HB3	46:VH:225:LEU:HD22	1.81	0.63
46:VJ:301:CYS:HB3	46:VJ:377:MET:HE1	1.81	0.63
45:WA:258:ASN:ND2	45:WA:352:LYS:HE3	2.12	0.63
46:WL:207:LEU:HD13	46:WL:225:LEU:HB2	1.80	0.63
1:0A:40:GLY:O	1:0A:41:THR:OG1	2.17	0.63
17:1F:58:LEU:HD21	8:1H:101:GLN:HG3	1.81	0.63
21:1L:41:LYS:NZ	46:BJ:39:ASP:O	2.32	0.63
9:1N:75:MET:HB3	9:1N:275:VAL:HB	1.80	0.63
25:1R:254:ASN:ND2	25:1R:275:LEU:HB3	2.14	0.63
25:1R:454:ARG:HH21	46:FD:219:THR:HG22	1.62	0.63
27:2C:66:LEU:HB2	27:2C:71:TYR:HE1	1.64	0.63
4:2D:81:ARG:NH1	46:EJ:357:PRO:HD2	2.14	0.63
11:2S:18:ARG:HE	11:2S:27:VAL:HG11	1.63	0.63
11:2S:286:LEU:HA	11:2S:289:GLU:OE2	1.99	0.63
12:2T:256:ASN:OD1	12:2T:257:GLN:N	2.31	0.63
33:4F:32:ASN:OD1	33:4F:33:ASP:N	2.32	0.63
37:5E:120:GLU:HG2	37:5E:121:GLU:N	2.13	0.63
34:7R:570:VAL:HG12	34:7R:585:ILE:HD13	1.80	0.63
45:AA:98:ASP:O	45:AA:105:ARG:NH1	2.32	0.63
46:BD:156:ARG:NH1	46:BD:195:ASN:O	2.32	0.63
46:BH:290:THR:HA	46:BH:293:MET:HE3	1.80	0.63
45:BM:98:ASP:O	45:BM:105:ARG:NH1	2.32	0.63
46:CL:316:LEU:HD13	46:CL:352:SER:HB2	1.81	0.63
45:DE:163:LYS:HA	45:DE:163:LYS:HE3	1.81	0.63
46:DL:256:ASN:ND2	46:DL:350:LYS:HE2	2.13	0.63
46:DN:290:THR:HA	46:DN:293:MET:HG2	1.81	0.63
46:EJ:31:ASP:OD1	46:EJ:35:THR:N	2.32	0.63
46:FN:156:ARG:NH1	46:FN:164:MET:SD	2.72	0.63
46:HB:66:MET:HE1	46:HB:151:LEU:HD13	1.80	0.63
46:HH:213:ARG:HH21	46:HH:297:LYS:HB3	1.64	0.63
45:IE:234:VAL:HG21	45:IE:302:MET:HE1	1.81	0.63
45:IM:34:GLY:HA3	45:IM:60:LYS:HG3	1.79	0.63
46:MN:209:ASP:OD2	46:MN:213:ARG:NH1	2.31	0.63
46:ND:86:ARG:HA	46:OD:281:TYR:HD2	1.62	0.63
46:NN:16:ILE:HD11	46:NN:229:VAL:HG11	1.81	0.63
45:OK:27:GLU:OE2	45:OK:320:ARG:NH2	2.32	0.63
45:QE:224:TYR:HD1	45:QE:227:LEU:HD12	1.64	0.63
45:QE:345:ASP:OD2	45:QE:346:TRP:N	2.31	0.63
45:QG:328:VAL:HG11	45:QG:353:VAL:HG21	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RM:188:ILE:HG12	45:RM:421:ALA:HB1	1.80	0.63
45:RM:326:LYS:HE2	46:RN:220:PRO:HD2	1.80	0.63
45:SC:108:TYR:HA	45:SC:112:LYS:HE3	1.81	0.63
45:SG:87:PHE:HD1	45:SG:92:LEU:HD11	1.62	0.63
46:TB:139:LEU:HD22	46:TB:170:VAL:HG12	1.81	0.63
46:TJ:97:ALA:HB3	46:TJ:143:THR:HB	1.80	0.63
46:UD:320:ARG:O	46:UD:321:MET:HE2	1.99	0.63
46:UH:372:THR:HA	46:UH:422:TYR:HE2	1.63	0.63
45:VA:387:VAL:HA	45:VA:390:ARG:NE	2.13	0.63
45:VC:203:MET:HE3	45:VC:203:MET:HA	1.81	0.63
46:VH:6:HIS:O	46:VH:63:ALA:HA	1.97	0.63
46:VH:139:LEU:HD21	46:VH:168:SER:HB3	1.81	0.63
45:VI:68:LEU:HD13	45:VI:93:ILE:HB	1.81	0.63
45:WC:221:ARG:NH1	46:WD:322:SER:OG	2.32	0.63
46:WH:309:ARG:NH2	46:WH:426:GLN:O	2.28	0.63
5:0E:160:GLN:HE22	5:0E:162:LYS:HG2	1.62	0.63
4:1D:108:PRO:O	4:1D:110:LYS:NZ	2.32	0.63
22:1M:179:THR:O	22:1M:183:ARG:NH1	2.32	0.63
24:1P:203:GLU:HB3	24:1P:207:LYS:HZ1	1.63	0.63
13:1U:448:HIS:CE1	13:1U:468:SER:HB2	2.33	0.63
4:2D:99:ARG:HH12	45:EK:364:PRO:HA	1.64	0.63
22:2M:330:LYS:NZ	22:2M:339:ALA:O	2.31	0.63
9:2N:257:LYS:HE3	9:2N:263:MET:HE1	1.81	0.63
23:2O:475:GLN:NE2	23:2O:488:GLU:OE2	2.31	0.63
14:2V:73:ARG:HG2	46:LF:121:ARG:HH12	1.64	0.63
14:2V:102:LYS:HZ2	14:2V:104:PHE:H	1.45	0.63
13:3U:489:GLU:OE2	13:3U:491:THR:OG1	2.16	0.63
41:6H:258:THR:N	46:FF:320:ARG:HH22	1.97	0.63
34:6R:321:MET:O	46:CN:279:GLN:NE2	2.30	0.63
46:AD:190:HIS:CD2	46:AD:414:ASN:HD22	2.17	0.63
45:AI:76:ASP:OD2	46:AJ:46:ARG:NH2	2.32	0.63
46:BN:135:ILE:HG13	46:BN:152:ILE:HD11	1.79	0.63
46:CB:318:ARG:HH12	46:CB:358:PRO:HG3	1.60	0.63
45:CC:339:ARG:O	45:CC:342:GLN:NE2	2.31	0.63
46:DL:256:ASN:HD21	46:DL:350:LYS:HE2	1.61	0.63
46:DN:293:MET:HE2	46:DN:365:VAL:HG11	1.81	0.63
45:EC:260:VAL:HB	46:ED:397:TRP:HZ2	1.63	0.63
46:FJ:58:ARG:HH12	46:GJ:280:GLN:HE22	1.44	0.63
46:GN:178:THR:HG22	46:GN:180:VAL:H	1.63	0.63
45:HA:294:SER:O	45:HA:300:ASN:ND2	2.24	0.63
46:HB:66:MET:HE2	46:HB:116:VAL:HG21	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:II:98:ASP:OD1	45:II:99:ALA:N	2.32	0.63
46:IL:11:GLN:NE2	49:IL:501:GDP:O1A	2.32	0.63
45:IM:288:VAL:HG11	45:IM:327:ASP:HB3	1.80	0.63
46:JB:267:MET:HB2	46:JB:299:MET:HE2	1.81	0.63
45:JI:206:ASN:OD1	47:JI:501:GTP:N2	2.27	0.63
45:KC:127:ASP:OD1	45:KC:128:ASN:N	2.31	0.63
45:KI:9:VAL:HG12	45:KI:68:LEU:HB2	1.80	0.63
45:LE:163:LYS:HA	45:LE:163:LYS:HE3	1.81	0.63
45:MK:259:LEU:HB3	45:MK:268:MET:HE1	1.80	0.63
45:NM:174:SER:OG	45:NM:206:ASN:OD1	2.16	0.63
45:QA:56:THR:HG23	45:QA:58:ALA:H	1.64	0.63
46:QD:12:CYS:HA	46:QD:15:GLN:HE21	1.63	0.63
46:QD:86:ARG:HH11	46:QD:88:ASP:HB3	1.64	0.63
45:QM:101:ASN:HA	45:QM:144:GLY:H	1.63	0.63
46:RB:169:VAL:HG12	46:RB:202:ILE:HB	1.80	0.63
45:RI:284:GLU:HG2	45:RI:286:LEU:HD22	1.81	0.63
45:SC:292:THR:HG21	45:SC:331:SER:HB2	1.81	0.63
46:SL:322:SER:OG	46:SL:325:GLU:OE1	2.17	0.63
45:SM:75:ILE:HG22	45:SM:79:ARG:HE	1.64	0.63
45:SM:193:SER:O	45:SM:197:HIS:ND1	2.30	0.63
45:TE:120:ASP:O	45:TE:124:LYS:HG2	1.98	0.63
45:TI:328:VAL:HG11	45:TI:353:VAL:HG21	1.80	0.63
46:TL:290:THR:HA	46:TL:293:MET:HE2	1.79	0.63
46:VJ:6:HIS:O	46:VJ:63:ALA:HA	1.98	0.63
46:VL:73:MET:HA	46:VL:76:VAL:HG12	1.80	0.63
46:WH:7:ILE:HG13	46:WH:135:ILE:HG13	1.80	0.63
45:WM:212:ILE:HD11	45:WM:300:ASN:HA	1.80	0.63
1:0A:136:ASN:HA	1:0A:139:GLN:OE1	1.98	0.63
5:0E:141:GLN:OE1	34:7R:497:GLN:NE2	2.32	0.63
10:0Q:36:ARG:NH1	11:0S:271:ASP:O	2.32	0.63
12:0T:53:ARG:HH22	12:0T:190:GLY:HA3	1.63	0.63
8:1H:87:GLU:O	8:1H:90:ARG:HG2	1.98	0.63
8:1H:273:GLU:O	8:1H:276:LYS:N	2.31	0.63
21:1L:868:LYS:HA	21:1L:868:LYS:HE3	1.79	0.63
9:1N:335:GLN:OE1	9:1N:351:THR:OG1	2.17	0.63
10:2Q:68:THR:HG22	10:2Q:70:GLY:H	1.64	0.63
13:2U:578:ILE:HD11	13:2U:592:SER:HB2	1.80	0.63
25:3R:178:LEU:HD12	25:3R:179:GLU:H	1.63	0.63
12:3T:168:HIS:O	12:3T:172:ILE:HG12	1.99	0.63
27:4C:168:ASP:OD1	27:4C:169:GLU:N	2.31	0.63
34:4R:268:GLU:HG3	46:DF:280:GLN:HG3	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5G:209:ARG:HD2	45:LK:427:ALA:HB1	1.81	0.63
34:7R:341:ARG:HH12	34:7R:344:ASN:HA	1.63	0.63
46:AN:396:HIS:HA	46:AN:399:THR:HG22	1.80	0.63
45:CA:206:ASN:OD1	47:CA:501:GTP:N2	2.32	0.63
46:CF:226:ASN:ND2	49:CF:501:GDP:HN1	1.96	0.63
46:DB:135:ILE:HG21	46:DB:152:ILE:HD11	1.81	0.63
46:DH:67:ASP:HB3	46:DH:73:MET:HE1	1.80	0.63
46:DL:178:THR:HB	46:DL:181:GLU:HG3	1.80	0.63
45:DM:174:SER:OG	45:DM:207:GLU:OE1	2.14	0.63
46:EB:27:GLU:OE2	46:EB:241:ARG:NH1	2.30	0.63
46:FF:178:THR:HB	46:FF:181:GLU:HG3	1.81	0.63
45:FK:439:THR:HG21	46:FN:390:ARG:HE	1.63	0.63
46:FL:102:ALA:HB2	46:FL:403:MET:HE2	1.81	0.63
45:GK:178:SER:HB2	46:GL:347:ASN:ND2	2.13	0.63
46:HB:86:ARG:HH21	46:HB:87:PRO:HG2	1.64	0.63
46:HJ:22:GLU:HG2	46:HJ:81:PHE:HD1	1.64	0.63
45:IC:174:SER:OG	45:IC:207:GLU:OE1	2.16	0.63
45:IG:326:LYS:NZ	46:IJ:220:PRO:O	2.31	0.63
46:JD:296:ALA:HB1	46:JD:305:PRO:HD2	1.81	0.63
45:JE:195:LEU:HD21	45:JE:264:ARG:HE	1.64	0.63
45:JG:406:HIS:HA	45:JG:409:VAL:HG12	1.81	0.63
45:KA:60:LYS:HD3	45:LA:282:TYR:HE1	1.62	0.63
46:KL:51:TYR:HB3	46:KL:59:TYR:HB3	1.80	0.63
46:LH:316:LEU:HD13	46:LH:352:SER:HB2	1.81	0.63
46:MF:103:LYS:HA	46:MF:107:THR:HG22	1.81	0.63
46:MF:215:LEU:HD21	46:MF:273:LEU:HD12	1.79	0.63
45:MI:292:THR:HG21	45:MI:331:SER:HB2	1.79	0.63
45:MM:31:GLN:HG3	45:MM:37:PRO:HA	1.80	0.63
45:MM:172:TYR:CE2	45:MM:203:MET:HG3	2.34	0.63
45:NA:192:HIS:CE1	45:NA:424:ASP:OD2	2.51	0.63
45:NE:221:ARG:HA	45:NE:221:ARG:NH1	2.13	0.63
46:OD:309:ARG:NH2	46:OD:341:PHE:O	2.31	0.63
45:OE:337:THR:O	45:OE:339:ARG:NH1	2.32	0.63
45:OI:284:GLU:HG2	45:OI:286:LEU:HD22	1.79	0.63
45:PC:352:LYS:HZ3	46:PF:179:VAL:H	1.47	0.63
46:QB:273:LEU:H	46:QB:292:GLN:HE22	1.46	0.63
45:QI:204:LEU:HD23	45:QI:231:ILE:HD12	1.81	0.63
46:RH:114:ASP:OD1	46:RH:115:SER:N	2.32	0.63
45:RK:109:THR:HG22	45:RK:110:ILE:HG23	1.81	0.63
45:SG:108:TYR:HA	45:SG:112:LYS:HE3	1.81	0.63
46:SH:31:ASP:OD1	46:SH:35:THR:N	2.30	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TK:91:GLN:HG2	45:TK:121:ARG:HD2	1.81	0.63
45:VA:326:LYS:NZ	46:VD:219:THR:HA	2.13	0.63
46:WD:74:ASP:HA	46:WD:77:ARG:HE	1.63	0.63
46:WD:222:TYR:O	46:WD:226:ASN:ND2	2.26	0.63
46:WH:260:PHE:HB2	46:WH:263:LEU:HD13	1.81	0.63
46:WJ:7:ILE:HG22	46:WJ:64:ILE:HB	1.79	0.63
46:WN:284:LEU:HD11	46:WN:362:LYS:HB3	1.81	0.63
12:0T:53:ARG:NH2	12:0T:190:GLY:HA3	2.14	0.63
13:0U:381:TRP:CD1	13:0U:387:ARG:HE	2.17	0.63
3:1C:76:PRO:HG2	3:1C:79:LEU:HD13	1.81	0.63
4:1D:38:ILE:HG13	4:1D:39:PRO:CD	2.29	0.63
4:1D:167:ILE:HG22	4:1D:170:PRO:HD3	1.81	0.63
20:1K:178:GLU:O	20:1K:182:ILE:HD12	1.99	0.63
21:1L:302:SER:OG	21:1L:305:GLN:OE1	2.17	0.63
1:2A:91:ASN:OD1	1:2A:94:LYS:N	2.32	0.63
16:2B:131:PRO:HG3	16:2B:134:ARG:HH21	1.63	0.63
4:2D:224:ARG:NH2	34:5R:492:ILE:HG23	2.14	0.63
21:2L:525:LEU:HD12	46:BN:320:ARG:HG2	1.80	0.63
23:2O:296:LYS:HA	23:2O:299:LYS:HD2	1.80	0.63
10:2Q:57:ASN:HB2	10:2Q:158:ALA:HB2	1.79	0.63
12:2T:229:THR:OG1	45:MG:431:ASP:OD2	2.17	0.63
12:3T:8:GLU:OE2	12:3T:38:LYS:NZ	2.24	0.63
36:5B:147:TYR:HE2	45:NG:18:ASN:HB3	1.63	0.63
36:5C:138:ARG:NH2	46:NL:357:PRO:O	2.32	0.63
34:5R:71:LYS:HD2	34:5R:72:ALA:H	1.64	0.63
46:BD:67:ASP:O	46:BD:92:PHE:HA	1.99	0.63
46:CB:406:MET:O	46:CB:410:GLU:HG2	1.99	0.63
45:DE:108:TYR:O	45:DE:112:LYS:NZ	2.30	0.63
45:EG:259:LEU:HD21	45:EG:316:SER:HB3	1.81	0.63
45:FI:271:SER:OG	45:FI:301:MET:SD	2.57	0.63
46:FJ:229:VAL:HG12	46:FJ:233:MET:HE2	1.81	0.63
46:FN:133:PHE:HD1	46:FN:164:MET:HE1	1.64	0.63
46:HF:135:ILE:HG13	46:HF:152:ILE:HD11	1.81	0.63
46:IN:86:ARG:NH2	45:JK:284:GLU:OE2	2.28	0.63
46:JD:108:GLU:HA	46:JD:111:GLU:HG3	1.81	0.63
45:JI:192:HIS:NE2	45:JI:420:GLU:OE2	2.31	0.63
45:JM:151:SER:O	45:JM:154:LEU:HG	1.98	0.63
45:LE:11:GLN:NE2	46:LF:245:GLN:O	2.32	0.63
46:MJ:135:ILE:HG13	46:MJ:152:ILE:HD11	1.81	0.63
45:NI:222:PRO:O	46:NJ:324:LYS:NZ	2.32	0.63
45:NI:328:VAL:HG11	45:NI:353:VAL:HG21	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OF:328:GLU:O	46:OF:332:ASN:ND2	2.32	0.63
45:OG:222:PRO:O	46:OH:324:LYS:NZ	2.25	0.63
45:OI:203:MET:HG3	45:OI:384:ILE:HD11	1.80	0.63
46:OL:294:PHE:HE2	46:OL:333:VAL:HG11	1.64	0.63
45:PA:389:SER:O	45:PA:393:HIS:ND1	2.27	0.63
46:QD:266:PHE:CE1	46:QD:370:ASN:HB2	2.34	0.63
46:QH:31:ASP:OD2	46:QH:35:THR:N	2.31	0.63
45:RC:121:ARG:HH12	45:RC:124:LYS:HG3	1.63	0.63
46:RH:194:GLU:OE1	46:RH:414:ASN:ND2	2.29	0.63
46:SB:229:VAL:HG12	46:SB:233:MET:HE2	1.79	0.63
46:SD:318:ARG:HE	46:SD:358:PRO:HG3	1.63	0.63
45:SI:209:ILE:HD12	45:SI:227:LEU:HD22	1.81	0.63
46:SL:375:GLN:HE22	46:SL:423:GLN:HB2	1.64	0.63
46:TD:1:MET:HG3	46:TD:2:ARG:HH11	1.63	0.63
45:TG:156:ARG:HG3	45:TG:156:ARG:HH11	1.63	0.63
46:TL:46:ARG:NH2	45:TM:76:ASP:OD2	2.32	0.63
46:TN:139:LEU:HD22	46:TN:170:VAL:HG12	1.79	0.63
46:UF:282:ARG:NH2	46:UF:292:GLN:OE1	2.32	0.63
46:UJ:86:ARG:HH22	46:VJ:278:SER:HA	1.63	0.63
45:VA:104:ALA:HA	45:VA:413:MET:HE3	1.81	0.63
46:VD:309:ARG:NH2	46:VD:426:GLN:O	2.31	0.63
45:VK:254:GLU:HG2	46:VN:98:GLY:HA2	1.81	0.63
7:0G:12:LYS:HG3	7:0G:13:TYR:H	1.64	0.62
13:0U:11:ILE:HB	13:0U:599:ILE:HB	1.81	0.62
14:0V:50:ASN:HB3	14:0V:57:LEU:HD13	1.81	0.62
14:0V:94:GLY:HA2	46:LN:262:ARG:HG2	1.81	0.62
16:1B:399:GLN:NE2	16:1B:400:GLN:O	2.30	0.62
4:1D:74:GLN:CD	4:1D:75:ASP:H	2.07	0.62
25:1R:443:ASP:OD2	25:1R:466:LYS:NZ	2.32	0.62
12:1T:121:ALA:H	12:1T:199:ARG:HG2	1.63	0.62
1:2A:98:THR:HG23	1:2A:100:PHE:H	1.64	0.62
31:2I:95:LYS:N	46:FF:125:GLU:OE2	2.27	0.62
14:2V:202:GLN:OE1	14:2V:206:ARG:NH1	2.31	0.62
15:2X:42:LYS:NZ	45:LI:56:THR:O	2.24	0.62
27:3C:49:GLN:NE2	27:3C:81:GLU:OE2	2.32	0.62
33:4F:5:VAL:O	45:GI:84:ARG:NH2	2.29	0.62
34:5R:318:TYR:HB2	34:5R:321:MET:HE2	1.79	0.62
41:6H:274:GLU:HG2	41:6H:275:LYS:HD3	1.81	0.62
45:BA:105:ARG:NH2	45:BA:109:THR:OG1	2.23	0.62
45:BA:173:PRO:O	45:BA:390:ARG:NH2	2.32	0.62
45:BC:221:ARG:HH11	46:BD:324:LYS:HZ3	1.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BF:262:ARG:NH1	46:BF:421:GLU:OE2	2.32	0.62
45:CA:27:GLU:HB3	45:CA:361:THR:HG21	1.81	0.62
46:DD:31:ASP:OD1	46:DD:35:THR:N	2.29	0.62
46:DF:215:LEU:HD21	46:DF:273:LEU:HD12	1.81	0.62
46:DJ:267:MET:HG3	46:DJ:299:MET:HE2	1.81	0.62
46:EB:100:ASN:ND2	46:EB:401:GLU:OE1	2.31	0.62
46:ED:166:THR:OG1	46:ED:199:CYS:SG	2.55	0.62
46:EJ:86:ARG:HH22	46:FJ:282:ARG:HA	1.63	0.62
45:FC:151:SER:O	45:FC:155:GLU:HG3	1.99	0.62
45:FC:210:TYR:CG	46:FD:324:LYS:HD3	2.34	0.62
46:FL:190:HIS:CE1	46:FL:414:ASN:HD22	2.16	0.62
46:GJ:226:ASN:HD21	49:GJ:501:GDP:HN1	1.45	0.62
46:GL:31:ASP:OD2	46:GL:37:HIS:ND1	2.32	0.62
45:HI:121:ARG:HH12	45:HI:124:LYS:HD2	1.64	0.62
45:HI:329:ASN:ND2	46:HL:175:VAL:HG12	2.14	0.62
45:IE:71:GLU:OE2	46:IF:2:ARG:NH2	2.31	0.62
46:IF:287:PRO:HA	46:IF:329:GLN:HE22	1.63	0.62
46:IH:97:ALA:HA	46:IH:103:LYS:HD2	1.80	0.62
45:JA:116:ASP:OD1	45:JA:117:LEU:N	2.31	0.62
46:JH:70:PRO:HA	46:JH:73:MET:HE2	1.80	0.62
45:JI:259:LEU:HD21	45:JI:316:SER:HB2	1.80	0.62
45:OC:348:PRO:HD2	46:OF:388:MET:HE3	1.81	0.62
45:OM:9:VAL:HG12	45:OM:68:LEU:HB2	1.80	0.62
46:QH:6:HIS:CD2	46:QH:8:GLN:HB2	2.34	0.62
46:RF:323:THR:HG1	45:RG:210:TYR:HH	1.46	0.62
46:RH:134:GLN:NE2	46:RH:233:MET:SD	2.69	0.62
46:RJ:324:LYS:HB2	45:RK:221:ARG:NH1	2.10	0.62
46:RL:52:ASN:OD1	46:RL:62:ARG:NH2	2.32	0.62
45:SE:108:TYR:HA	45:SE:112:LYS:HE3	1.80	0.62
46:SF:107:THR:OG1	46:SF:108:GLU:OE1	2.17	0.62
45:TI:287:SER:HA	45:TI:373:ARG:HH12	1.63	0.62
46:TN:145:SER:HB2	46:TN:188:SER:HB3	1.81	0.62
45:VA:396:ASP:OD1	45:VA:422:ARG:NH1	2.32	0.62
45:VE:55:GLU:HG3	45:VE:57:GLY:H	1.64	0.62
45:VE:239:THR:HG23	45:VE:243:ARG:HH21	1.64	0.62
45:VI:223:THR:HG23	45:VI:225:THR:H	1.64	0.62
46:VL:371:SER:O	46:VL:422:TYR:OH	2.16	0.62
45:VM:403:ALA:HA	46:VN:260:PHE:HE1	1.63	0.62
45:WC:306:ASP:OD1	45:WC:308:ARG:NH2	2.32	0.62
46:WD:221:THR:HG23	46:WD:224:ASP:H	1.63	0.62
8:1H:179:LYS:HA	8:1H:182:TYR:CE1	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:1H:187:LEU:HG	45:GG:58:ALA:HB1	1.80	0.62
4:2D:38:ILE:HG13	4:2D:39:PRO:CD	2.29	0.62
31:2I:101:GLU:O	46:GF:306:ARG:NH2	2.32	0.62
21:2L:658:ARG:HH21	46:BN:42:LEU:HA	1.64	0.62
10:2Q:136:LEU:O	10:2Q:140:THR:HG23	1.99	0.62
12:2T:106:ILE:HG21	12:2T:213:LEU:HD12	1.81	0.62
37:5G:173:LYS:HG3	37:5G:174:ALA:H	1.63	0.62
46:BD:87:PRO:HA	46:BD:90:PHE:HD2	1.64	0.62
46:BF:91:VAL:HG21	46:BF:116:VAL:HB	1.80	0.62
45:BI:69:ASP:OD1	45:BI:70:LEU:N	2.31	0.62
45:DM:55:GLU:HG3	45:DM:57:GLY:H	1.64	0.62
46:EF:258:ILE:HD11	45:EG:407:TRP:HZ2	1.64	0.62
46:EH:316:LEU:HD13	46:EH:352:SER:HB2	1.80	0.62
45:FC:2:ARG:HB3	45:FC:133:GLN:HE21	1.64	0.62
45:FI:407:TRP:HZ2	46:FJ:258:ILE:HD11	1.63	0.62
45:FK:244:PHE:HB2	45:FK:356:ASN:HD21	1.65	0.62
45:FK:407:TRP:HZ2	46:FL:258:ILE:HD11	1.64	0.62
46:GB:100:ASN:ND2	46:GB:401:GLU:OE1	2.32	0.62
46:GB:139:LEU:HD22	46:GB:170:VAL:HG12	1.80	0.62
45:GI:69:ASP:OD1	45:GI:70:LEU:N	2.32	0.62
46:GL:200:MET:HG2	46:GL:266:PHE:HB2	1.80	0.62
46:HD:175:VAL:HG12	46:HD:205:GLU:HG2	1.81	0.62
45:HE:352:LYS:HZ1	46:HH:179:VAL:N	1.96	0.62
46:HL:226:ASN:HD21	49:HL:501:GDP:HN1	1.46	0.62
45:IK:71:GLU:OE2	46:IL:2:ARG:NH2	2.32	0.62
45:KA:326:LYS:HE2	46:KD:220:PRO:HG2	1.81	0.62
46:KL:222:TYR:O	46:KL:226:ASN:ND2	2.24	0.62
45:MG:64:ARG:NH1	45:MG:129:CYS:SG	2.72	0.62
46:NN:7:ILE:HG23	46:NN:135:ILE:HG12	1.82	0.62
46:ON:139:LEU:HD13	46:ON:168:SER:HB3	1.81	0.62
45:PC:230:LEU:HB3	45:PC:302:MET:HE1	1.80	0.62
45:PE:398:MET:HE1	46:PF:345:ILE:HA	1.80	0.62
45:PI:80:THR:O	45:PI:84:ARG:NH2	2.32	0.62
46:PJ:222:TYR:O	46:PJ:226:ASN:ND2	2.21	0.62
46:PN:83:GLN:O	46:QL:281:TYR:OH	2.17	0.62
46:RD:68:LEU:HB3	46:RD:96:GLY:HA2	1.81	0.62
46:RD:166:THR:HG1	46:RD:199:CYS:HG	1.36	0.62
45:RG:65:ALA:O	45:RG:91:GLN:NE2	2.31	0.62
45:RM:280:LYS:HE2	45:RM:283:HIS:HD2	1.63	0.62
46:SN:229:VAL:HG12	46:SN:233:MET:HE2	1.79	0.62
46:TD:309:ARG:NH2	46:TD:426:GLN:O	2.26	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TE:108:TYR:HA	45:TE:112:LYS:HE3	1.81	0.62
45:TE:402:ARG:HH12	45:TE:406:HIS:H	1.48	0.62
46:TL:309:ARG:NH2	46:TL:426:GLN:O	2.29	0.62
46:TN:207:LEU:HB3	46:TN:225:LEU:HD22	1.81	0.62
46:UN:268:ILE:HG13	46:UN:300:MET:HE2	1.81	0.62
46:UN:282:ARG:NH2	46:UN:292:GLN:OE1	2.32	0.62
45:VG:221:ARG:NH1	46:VH:324:LYS:HG2	2.14	0.62
45:VG:258:ASN:HD22	46:VJ:179:VAL:HG22	1.63	0.62
46:VJ:148:GLY:O	46:VJ:152:ILE:HG12	2.00	0.62
45:VK:90:GLU:OE1	45:VK:121:ARG:NH1	2.32	0.62
46:WB:135:ILE:HG13	46:WB:152:ILE:HD11	1.80	0.62
46:WL:143:THR:OG1	49:WL:501:GDP:O1B	2.17	0.62
46:WN:164:MET:HE2	46:WN:196:ALA:HA	1.80	0.62
4:0D:218:GLN:HG3	4:0D:219:ASN:H	1.64	0.62
5:0E:65:PHE:O	5:0E:69:GLN:NE2	2.33	0.62
8:0H:435:ALA:H	17:1F:42:ASN:HD21	1.47	0.62
16:1B:306:VAL:HG13	16:1B:307:PHE:H	1.63	0.62
16:1B:379:PHE:HE2	16:1B:392:PHE:HA	1.63	0.62
8:1H:232:GLN:C	8:1H:234:GLU:H	2.07	0.62
22:1M:127:SER:OG	22:1M:130:ASP:OD2	2.17	0.62
13:1U:333:SER:HB3	13:1U:585:PRO:HD2	1.80	0.62
16:2B:62:THR:O	16:2B:65:LEU:N	2.31	0.62
16:2B:217:LYS:NZ	16:2B:259:PHE:O	2.30	0.62
4:2D:218:GLN:HG2	4:2D:219:ASN:N	2.06	0.62
31:2I:140:ILE:HD11	46:FD:118:ASP:HB3	1.81	0.62
23:2O:403:LYS:HA	23:2O:406:ARG:HH11	1.63	0.62
23:2O:450:LYS:HE3	23:2O:451:LYS:HZ2	1.63	0.62
13:2U:177:LYS:HE3	13:2U:177:LYS:HA	1.80	0.62
26:2W:251:ARG:NH1	34:6R:17:PHE:O	2.30	0.62
21:3L:112:TYR:HB2	21:3L:115:ALA:HB2	1.81	0.62
12:3T:264:LYS:NZ	13:3U:28:GLU:HG3	2.14	0.62
12:3T:268:LEU:HG	13:3U:43:ILE:HG21	1.81	0.62
37:5F:116:TYR:CE1	45:NE:85:GLN:HA	2.34	0.62
45:AM:91:GLN:HG2	45:AM:121:ARG:HD2	1.81	0.62
45:BC:396:ASP:OD1	45:BC:422:ARG:NH1	2.32	0.62
46:BH:290:THR:HA	46:BH:293:MET:HG2	1.82	0.62
46:DB:86:ARG:NH2	46:EB:277:GLY:O	2.32	0.62
46:DD:7:ILE:HG22	46:DD:64:ILE:HG12	1.81	0.62
46:DD:164:MET:HB2	46:DD:197:ASP:H	1.64	0.62
45:DI:108:TYR:O	45:DI:112:LYS:NZ	2.30	0.62
46:EN:19:LYS:NZ	46:EN:223:GLY:O	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FB:66:MET:HE1	46:FB:151:LEU:HD13	1.80	0.62
45:FK:184:PRO:O	45:FK:188:ILE:HG12	1.99	0.62
46:GF:135:ILE:HG13	46:GF:152:ILE:HD11	1.81	0.62
46:GF:392:LYS:HA	46:GF:395:LEU:HD12	1.80	0.62
46:GJ:371:SER:O	46:GJ:422:TYR:OH	2.17	0.62
46:GL:372:THR:HA	46:GL:422:TYR:HE2	1.63	0.62
45:IC:419:SER:O	45:IC:423:GLU:HG2	1.99	0.62
46:JB:376:GLU:O	46:JB:380:ARG:HG2	1.98	0.62
46:JF:293:MET:HE3	46:JF:367:PHE:HB2	1.81	0.62
45:JG:188:ILE:HG23	45:JG:189:LEU:HD12	1.80	0.62
45:LG:84:ARG:HG3	45:LG:85:GLN:HG2	1.81	0.62
45:LK:215:ARG:NH2	45:LK:299:ALA:O	2.32	0.62
46:MH:1:MET:HG2	46:MH:2:ARG:N	2.14	0.62
46:MH:178:THR:HG22	46:MH:180:VAL:H	1.64	0.62
46:NB:362:LYS:HE3	46:NB:363:MET:SD	2.38	0.62
45:NE:294:SER:HA	45:NE:297:GLU:OE1	2.00	0.62
45:NG:352:LYS:HE2	46:NJ:179:VAL:H	1.64	0.62
45:NI:226:ASN:ND2	45:NI:367:ASP:OD2	2.32	0.62
45:NI:352:LYS:HE3	46:NL:178:THR:HA	1.81	0.62
45:OG:120:ASP:OD2	45:OG:124:LYS:NZ	2.32	0.62
45:PE:313:MET:HE1	45:PE:346:TRP:CH2	2.33	0.62
46:PF:248:SER:HA	46:PF:252:LYS:HD2	1.82	0.62
46:QF:258:ILE:HG13	45:QG:407:TRP:HE1	1.64	0.62
46:QF:318:ARG:HB2	46:QF:364:ALA:HB3	1.81	0.62
45:RA:33:ASP:HB2	45:RA:35:GLN:HE22	1.64	0.62
46:RF:183:TYR:HA	46:RF:385:PHE:HE1	1.63	0.62
46:RH:190:HIS:CE1	46:RH:414:ASN:HD22	2.17	0.62
46:RH:246:LEU:HA	45:RI:11:GLN:HE22	1.65	0.62
46:RH:257:LEU:HD11	46:RH:314:SER:HB2	1.80	0.62
46:SF:304:ASP:OD2	46:SF:306:ARG:NH1	2.33	0.62
46:UD:67:ASP:HB3	46:UD:73:MET:HE1	1.81	0.62
45:UM:399:TYR:O	45:UM:402:ARG:NH1	2.32	0.62
46:VB:235:GLY:HA3	46:VB:366:THR:HG21	1.81	0.62
46:VH:20:PHE:CZ	46:VH:24:ILE:HD11	2.34	0.62
45:VK:55:GLU:HG3	45:VK:57:GLY:H	1.63	0.62
46:WH:212:PHE:HD1	46:WH:213:ARG:HD3	1.64	0.62
45:WI:301:MET:HE1	45:WI:307:PRO:HD3	1.81	0.62
46:WJ:6:HIS:CD2	46:WJ:134:GLN:HE22	2.16	0.62
45:WK:174:SER:OG	45:WK:207:GLU:OE1	2.12	0.62
8:0H:391:LYS:HA	8:0H:391:LYS:HE2	1.79	0.62
13:0U:106:GLN:HE22	13:0U:122:GLY:HA2	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:1B:248:ASP:OD1	16:1B:249:ILE:N	2.30	0.62
19:1J:153:GLU:HB3	39:6F:127:TRP:HZ2	1.65	0.62
12:1T:254:ASN:HB3	12:1T:257:GLN:HB3	1.82	0.62
26:1W:223:LEU:HD12	27:3C:17:THR:HG21	1.80	0.62
26:1W:242:LEU:HD21	34:7R:15:HIS:ND1	2.15	0.62
27:2C:126:SER:OG	27:2C:130:ARG:NH2	2.32	0.62
20:2K:243:GLU:HA	20:2K:246:LYS:HD2	1.81	0.62
20:2K:366:GLU:HA	20:2K:369:ILE:HG12	1.81	0.62
20:2K:430:GLN:HA	45:GE:282:TYR:HD2	1.63	0.62
21:2L:698:ARG:HD3	21:2L:698:ARG:H	1.64	0.62
24:2P:479:ALA:O	24:2P:483:ILE:HG12	2.00	0.62
11:3S:92:LYS:HA	11:3S:92:LYS:HE3	1.81	0.62
35:5S:74:LEU:HB3	35:5S:76:ILE:HG12	1.80	0.62
45:AA:285:GLN:NE2	45:MA:55:GLU:O	2.32	0.62
45:AI:226:ASN:ND2	45:AI:367:ASP:OD2	2.31	0.62
45:AM:11:GLN:HE21	45:AM:15:GLN:HE22	1.48	0.62
46:BJ:68:LEU:HB3	46:BJ:96:GLY:HA2	1.81	0.62
46:CD:213:ARG:HH21	46:CD:297:LYS:HB3	1.64	0.62
46:CL:73:MET:HA	46:CL:76:VAL:HG12	1.82	0.62
45:EI:210:TYR:HE1	45:EI:227:LEU:HD11	1.64	0.62
46:EL:136:THR:HG22	46:EL:167:PHE:HD1	1.64	0.62
46:EN:66:MET:HE1	46:EN:151:LEU:HD13	1.81	0.62
46:FH:207:LEU:HB3	46:FH:225:LEU:HD22	1.82	0.62
46:GD:322:SER:OG	46:GD:325:GLU:OE1	2.16	0.62
45:GI:292:THR:HG21	45:GI:331:SER:HB3	1.80	0.62
45:GK:398:MET:HE2	46:GL:345:ILE:HG13	1.80	0.62
46:GN:200:MET:HG3	46:GN:266:PHE:HB2	1.81	0.62
46:IH:6:HIS:CD2	46:IH:134:GLN:HE22	2.15	0.62
45:II:210:TYR:CZ	46:IJ:324:LYS:HD3	2.34	0.62
46:JB:386:THR:HB	46:JB:390:ARG:HH12	1.64	0.62
46:KF:3:GLU:HG3	46:KF:62:ARG:NH1	2.15	0.62
46:KH:16:ILE:HD12	46:KH:229:VAL:HG11	1.81	0.62
45:KK:56:THR:HG23	45:KK:58:ALA:H	1.64	0.62
46:LJ:135:ILE:HG13	46:LJ:152:ILE:HD11	1.80	0.62
46:MB:114:ASP:OD1	46:MB:115:SER:N	2.33	0.62
45:MK:326:LYS:HZ3	46:MN:208:TYR:HB3	1.64	0.62
46:NB:58:ARG:NH2	46:OB:280:GLN:O	2.33	0.62
46:NF:267:MET:HE1	46:NF:305:PRO:HB3	1.81	0.62
46:NJ:66:MET:HE1	46:NJ:147:MET:HG2	1.81	0.62
46:NL:420:SER:O	46:NL:424:GLN:NE2	2.33	0.62
46:NN:48:ASN:O	46:NN:62:ARG:NH1	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PH:130:LEU:HG	46:PH:162:ARG:HD2	1.82	0.62
46:PN:376:GLU:HA	46:PN:379:LYS:HG2	1.81	0.62
46:QN:222:TYR:O	46:QN:226:ASN:ND2	2.29	0.62
45:RG:352:LYS:HZ1	46:RH:179:VAL:N	1.94	0.62
45:RK:31:GLN:HE22	45:RK:37:PRO:HG3	1.62	0.62
45:RM:402:ARG:HD2	45:RM:402:ARG:O	1.99	0.62
46:SF:46:ARG:NH2	45:SG:76:ASP:OD2	2.32	0.62
45:SM:32:PRO:O	45:SM:85:GLN:NE2	2.33	0.62
46:TF:32:PRO:HG3	46:TF:81:PHE:HE1	1.64	0.62
46:UB:67:ASP:O	46:UB:92:PHE:HA	1.99	0.62
45:UE:55:GLU:HG3	45:UE:57:GLY:H	1.64	0.62
46:UF:4:ILE:HD11	46:UF:131:GLN:HB2	1.80	0.62
46:UN:68:LEU:HD12	46:UN:93:GLY:HA3	1.81	0.62
45:VA:207:GLU:HA	45:VA:210:TYR:HD2	1.63	0.62
46:VB:68:LEU:HD12	46:VB:93:GLY:HA3	1.80	0.62
45:VC:27:GLU:OE1	45:VC:243:ARG:NH1	2.33	0.62
46:VF:293:MET:HE2	46:VF:367:PHE:HB2	1.81	0.62
46:WF:207:LEU:HB3	46:WF:225:LEU:HD22	1.82	0.62
6:0F:70:VAL:HG23	46:ED:362:LYS:NZ	2.12	0.62
22:1M:288:LEU:HG	39:6F:56:LEU:HD22	1.81	0.62
24:1P:196:ASN:HA	24:1P:199:LYS:HE2	1.80	0.62
24:1P:337:GLN:HE21	45:TC:26:LEU:HD12	1.63	0.62
12:1T:77:ASP:HB3	12:1T:103:VAL:HG12	1.81	0.62
13:1U:458:LYS:NZ	13:1U:460:ASN:HB3	2.14	0.62
28:2F:85:MET:HE1	45:GE:95:GLY:HA2	1.82	0.62
21:2L:901:LYS:HD2	46:CJ:320:ARG:HH22	1.64	0.62
22:2M:67:TYR:HE1	46:IJ:80:PRO:HB3	1.65	0.62
27:3C:254:MET:HE1	27:3C:285:ILE:HD12	1.82	0.62
33:4F:56:THR:HG23	33:4F:59:LYS:H	1.63	0.62
37:5E:123:ARG:NH2	45:OA:372:MET:HA	2.13	0.62
34:6R:259:ASN:HB2	34:6R:351:ASN:HB2	1.80	0.62
34:6R:469:LYS:HG3	46:EN:78:ALA:HB2	1.80	0.62
34:7R:493:GLY:N	34:7R:505:LEU:O	2.26	0.62
46:AD:44:LEU:HA	46:AD:47:ILE:HB	1.81	0.62
46:AL:135:ILE:HG13	46:AL:152:ILE:HD11	1.81	0.62
46:AL:372:THR:HA	46:AL:422:TYR:HE2	1.61	0.62
46:BD:67:ASP:OD1	46:BD:68:LEU:N	2.31	0.62
45:BE:317:MET:C	45:BE:318:MET:HE2	2.24	0.62
46:CJ:321:MET:HB2	45:CK:221:ARG:HH22	1.64	0.62
45:DA:36:MET:HB3	45:DA:61:HIS:HE1	1.63	0.62
46:DD:5:VAL:HG12	46:DD:62:ARG:HD3	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DD:292:GLN:O	46:DD:298:ASN:ND2	2.33	0.62
45:DE:258:ASN:HD21	46:DF:178:THR:HG23	1.64	0.62
46:DL:86:ARG:HH12	46:EL:278:SER:HA	1.63	0.62
46:DL:321:MET:SD	46:DL:363:MET:HE1	2.40	0.62
46:DL:396:HIS:HA	46:DL:399:THR:HG22	1.81	0.62
46:ED:67:ASP:O	46:ED:92:PHE:HA	1.98	0.62
46:EF:73:MET:HA	46:EF:76:VAL:HG12	1.82	0.62
46:EF:273:LEU:H	46:EF:292:GLN:HE22	1.46	0.62
46:EN:209:ASP:O	46:EN:213:ARG:HG2	1.99	0.62
45:FG:55:GLU:HG3	45:FG:57:GLY:H	1.64	0.62
46:GJ:107:THR:HG1	46:GJ:108:GLU:CD	2.08	0.62
45:HE:69:ASP:OD1	45:HE:70:LEU:N	2.32	0.62
46:IF:267:MET:HE3	46:IF:299:MET:HG2	1.81	0.62
46:IH:248:SER:HA	46:IH:252:LYS:HG3	1.80	0.62
45:JK:30:ILE:HD13	45:JK:36:MET:HE2	1.82	0.62
46:KD:294:PHE:HD1	46:KD:333:VAL:HG21	1.65	0.62
45:KG:71:GLU:OE1	46:KH:247:ASN:ND2	2.33	0.62
46:KJ:73:MET:HA	46:KJ:76:VAL:HG12	1.81	0.62
45:KK:384:ILE:HB	45:KK:432:TYR:HE2	1.64	0.62
46:KL:273:LEU:H	46:KL:292:GLN:HE22	1.45	0.62
45:LA:123:ARG:NH2	45:LA:161:TYR:HE2	1.96	0.62
45:LC:90:GLU:OE2	45:LC:121:ARG:NH1	2.33	0.62
45:LC:210:TYR:HH	46:LD:323:THR:HG1	1.47	0.62
45:LE:93:ILE:HD11	45:LE:121:ARG:HG3	1.81	0.62
45:LI:203:MET:HE3	45:LI:203:MET:HA	1.81	0.62
46:NH:302:ALA:HB3	46:NH:377:MET:HE1	1.80	0.62
45:NK:96:LYS:HB3	46:NL:2:ARG:HH12	1.63	0.62
45:NK:285:GLN:O	45:NK:373:ARG:NH2	2.28	0.62
46:NL:3:GLU:CD	46:NL:3:GLU:H	2.07	0.62
45:NM:222:PRO:HD2	46:NN:324:LYS:HE3	1.81	0.62
46:OD:214:THR:O	46:OD:275:SER:OG	2.18	0.62
46:OD:371:SER:O	46:OD:422:TYR:OH	2.13	0.62
45:OE:2:ARG:HB2	45:OE:133:GLN:HE22	1.65	0.62
46:OJ:143:THR:O	46:OJ:147:MET:HG2	1.99	0.62
45:OK:221:ARG:HH21	46:OL:322:SER:N	1.97	0.62
46:PF:48:ASN:O	46:PF:62:ARG:NH1	2.32	0.62
46:PN:125:GLU:OE1	46:QL:336:LYS:NZ	2.30	0.62
45:RG:360:PRO:O	45:RG:370:LYS:NZ	2.31	0.62
46:RH:99:ASN:HA	46:RH:142:GLY:H	1.63	0.62
45:SC:244:PHE:HB2	45:SC:356:ASN:HD21	1.64	0.62
46:SD:58:ARG:NH2	46:TD:280:GLN:OE1	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SF:42:LEU:HA	46:SF:45:GLU:HG3	1.81	0.62
46:SH:51:TYR:O	46:SH:62:ARG:NH2	2.32	0.62
45:SI:90:GLU:O	45:SI:121:ARG:NH2	2.33	0.62
45:SM:284:GLU:HG2	45:SM:286:LEU:HD22	1.82	0.62
45:TE:161:TYR:HB3	45:TE:164:LYS:HE2	1.80	0.62
45:TK:116:ASP:OD1	45:TK:117:LEU:N	2.33	0.62
46:UB:285:THR:HB	46:UB:287:PRO:HD2	1.81	0.62
46:UF:222:TYR:O	46:UF:226:ASN:ND2	2.27	0.62
45:VC:133:GLN:HB3	45:VC:252:ILE:HD11	1.81	0.62
45:VG:11:GLN:NE2	47:VG:501:GTP:O3A	2.31	0.62
45:VK:435:VAL:HA	46:VN:391:ARG:NH2	2.14	0.62
45:WA:111:GLY:O	45:WA:115:VAL:HG13	1.99	0.62
46:WF:1:MET:N	46:WF:3:GLU:OE2	2.29	0.62
46:WJ:49:VAL:HG11	46:WJ:241:ARG:HG2	1.81	0.62
4:0D:119:LYS:HE3	25:1R:483:ASP:HA	1.81	0.62
14:0V:33:PRO:HB2	14:0V:36:SER:HB3	1.81	0.62
15:0X:50:GLU:HB3	15:0X:54:ARG:NH2	2.15	0.62
21:1L:890:PHE:HA	21:1L:893:PHE:HB3	1.82	0.62
22:1M:238:CYS:HB2	22:1M:350:ILE:HD11	1.80	0.62
24:1P:111:LYS:NZ	24:1P:115:ASP:OD2	2.32	0.62
25:1R:418:ARG:HG3	45:EC:40:LYS:HE2	1.80	0.62
16:2B:136:ARG:HB2	26:2W:261:LYS:CE	2.29	0.62
20:2K:285:LYS:HG3	20:2K:289:LYS:HZ1	1.65	0.62
23:2O:155:ILE:HA	23:2O:158:LYS:HG2	1.80	0.62
23:2O:370:LEU:HB3	23:2O:374:ARG:HH12	1.63	0.62
5:3E:131:LYS:HZ1	5:3E:142:VAL:HG22	1.64	0.62
21:3L:115:ALA:O	21:3L:116:LYS:HB2	1.98	0.62
11:3S:135:ARG:NH2	11:3S:180:GLU:OE2	2.32	0.62
12:3T:137:SER:OG	12:3T:140:GLN:OE1	2.14	0.62
27:4C:67:LYS:HG3	27:4C:70:ASP:H	1.63	0.62
45:AE:251:ASP:OD1	45:AE:252:ILE:N	2.32	0.62
46:AF:114:ASP:OD1	46:AF:115:SER:N	2.32	0.62
46:AH:226:ASN:HD21	49:AH:501:GDP:HN1	1.46	0.62
45:AK:145:THR:OG1	47:AK:501:GTP:O1B	2.17	0.62
46:AL:48:ASN:O	46:AL:62:ARG:NH1	2.32	0.62
45:BK:221:ARG:HA	46:BL:324:LYS:HZ1	1.63	0.62
46:BL:403:MET:HE1	46:BL:407:GLU:HB3	1.80	0.62
46:CD:309:ARG:HE	46:CD:342:VAL:HA	1.64	0.62
46:CF:174:LYS:HE3	46:CF:174:LYS:HA	1.81	0.62
45:CG:207:GLU:HA	45:CG:210:TYR:HB2	1.80	0.62
46:DF:273:LEU:H	46:DF:292:GLN:HE22	1.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FH:222:TYR:O	46:FH:226:ASN:ND2	2.26	0.62
46:FL:269:GLY:HA2	46:FL:300:MET:HE2	1.82	0.62
45:GG:132:LEU:O	45:GG:164:LYS:NZ	2.31	0.62
45:HG:347:CYS:HA	46:HJ:388:MET:HE1	1.82	0.62
46:IB:97:ALA:HB3	46:IB:143:THR:HB	1.82	0.62
46:JB:133:PHE:HB2	46:JB:164:MET:HG2	1.80	0.62
45:JG:439:THR:HG21	46:JJ:390:ARG:HH22	1.65	0.62
46:KD:113:ILE:HD13	46:KD:150:LEU:HD22	1.81	0.62
46:KH:272:PRO:HB2	46:KH:282:ARG:HH12	1.64	0.62
45:KI:288:VAL:HG11	45:KI:327:ASP:HB3	1.81	0.62
45:LE:124:LYS:HE3	45:LE:124:LYS:HA	1.81	0.62
45:NA:88:HIS:NE2	45:OA:284:GLU:OE2	2.33	0.62
46:OH:237:THR:OG1	46:OH:241:ARG:NH2	2.32	0.62
45:PA:133:GLN:HB3	45:PA:252:ILE:HG21	1.82	0.62
45:PC:206:ASN:OD1	47:PD:501:GTP:N2	2.32	0.62
46:PF:1:MET:HG2	46:PF:2:ARG:H	1.65	0.62
46:PL:68:LEU:HB3	46:PL:96:GLY:HA2	1.80	0.62
46:RD:309:ARG:NH2	46:RD:426:GLN:O	2.22	0.62
46:RL:19:LYS:O	46:RL:22:GLU:HG3	1.99	0.62
46:SD:221:THR:HG23	46:SD:224:ASP:H	1.65	0.62
46:SH:21:TRP:CZ3	46:SH:61:PRO:HB3	2.34	0.62
46:TF:156:ARG:HG3	46:TF:195:ASN:HB3	1.80	0.62
46:TF:322:SER:HB3	45:TG:221:ARG:HG3	1.81	0.62
45:TK:348:PRO:HD2	46:TL:388:MET:HE1	1.80	0.62
45:TM:348:PRO:HG2	46:TN:384:GLN:HG3	1.79	0.62
46:UD:226:ASN:HD21	49:UD:501:GDP:HN1	1.46	0.62
46:UF:284:LEU:HB3	46:UF:363:MET:HE2	1.79	0.62
45:UI:248:LEU:HD13	45:UI:355:ILE:HD13	1.81	0.62
46:UN:113:ILE:HD11	46:UN:151:LEU:HB3	1.81	0.62
46:VB:200:MET:HG3	46:VB:266:PHE:HB2	1.81	0.62
46:VN:135:ILE:HG13	46:VN:152:ILE:HD11	1.80	0.62
46:WL:285:THR:N	46:WL:288:GLU:OE2	2.31	0.62
45:DC:101:ASN:HA	45:DC:144:GLY:H	1.63	0.62
2:0B:241:LEU:CD1	46:JL:227:HIS:HE1	2.13	0.62
6:0F:173:LEU:O	6:0F:176:THR:OG1	2.17	0.62
13:0U:280:ALA:O	13:0U:298:SER:N	2.33	0.62
16:1B:424:THR:HG23	16:1B:427:SER:H	1.65	0.62
16:1B:469:ASN:OD1	16:1B:470:ALA:N	2.32	0.62
25:1R:131:ASP:O	25:1R:156:LYS:NZ	2.30	0.62
26:1W:118:GLY:HA2	46:LF:276:ARG:HE	1.64	0.62
15:1X:81:ARG:NE	46:MF:276:ARG:HE	1.97	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:2C:224:LYS:O	45:KI:221:ARG:NH2	2.30	0.62
28:2F:82:GLU:OE1	28:2F:89:LYS:NZ	2.33	0.62
31:2I:138:VAL:H	46:FD:121:ARG:HH12	1.47	0.62
20:2K:291:GLN:HE22	46:FL:55:THR:HB	1.62	0.62
21:2L:893:PHE:O	21:2L:896:ILE:HG22	2.00	0.62
24:2P:420:ARG:O	24:2P:423:GLN:HG3	1.99	0.62
24:2P:486:TRP:HB3	24:2P:491:LYS:HE3	1.82	0.62
27:3C:15:ILE:HG21	27:3C:74:LEU:HD21	1.80	0.62
5:3E:137:MET:SD	5:3E:141:GLN:HG2	2.40	0.62
30:3H:174:PHE:CG	34:4R:147:ARG:NH2	2.68	0.62
46:AB:257:LEU:HD11	46:AB:314:SER:HB3	1.80	0.62
46:AH:135:ILE:HG13	46:AH:152:ILE:HD11	1.81	0.62
45:BE:204:LEU:HD13	45:BE:231:ILE:HD12	1.82	0.62
45:CC:271:SER:HB2	45:CC:377:MET:HG2	1.80	0.62
45:CG:324:VAL:HG11	45:CG:326:LYS:HE2	1.82	0.62
46:ED:31:ASP:OD1	46:ED:35:THR:N	2.28	0.62
45:FE:244:PHE:HB2	45:FE:356:ASN:HD21	1.64	0.62
46:FJ:113:ILE:HD13	46:FJ:154:LYS:HZ2	1.64	0.62
46:GJ:31:ASP:OD1	46:GJ:35:THR:N	2.29	0.62
46:GN:139:LEU:HD22	46:GN:170:VAL:HG12	1.82	0.62
46:HF:67:ASP:HB3	46:HF:73:MET:HE2	1.81	0.62
46:JD:410:GLU:OE1	46:ND:340:TYR:OH	2.16	0.62
46:JJ:63:ALA:O	46:JJ:89:ASN:ND2	2.33	0.62
45:JK:253:THR:OG1	45:JK:256:GLN:NE2	2.32	0.62
45:JM:69:ASP:HB3	45:JM:75:ILE:HD11	1.80	0.62
46:JN:235:GLY:HA3	46:JN:366:THR:HG21	1.81	0.62
45:KM:11:GLN:NE2	46:KN:245:GLN:O	2.32	0.62
46:MJ:114:ASP:OD1	46:MJ:115:SER:N	2.33	0.62
46:ML:392:LYS:HD3	46:ML:395:LEU:HD23	1.81	0.62
46:NF:12:CYS:O	46:NF:16:ILE:HG12	1.99	0.62
46:NH:207:LEU:HD12	46:NH:225:LEU:HD23	1.82	0.62
46:OJ:135:ILE:HG13	46:OJ:152:ILE:HD11	1.82	0.62
46:PH:63:ALA:O	46:PH:89:ASN:ND2	2.32	0.62
46:PL:236:VAL:HG13	46:PL:237:THR:HG23	1.81	0.62
45:PM:31:GLN:NE2	45:PM:33:ASP:OD1	2.32	0.62
45:QA:31:GLN:HG3	45:QA:37:PRO:HD3	1.80	0.62
45:QC:259:LEU:HD13	45:QC:268:MET:HE1	1.82	0.62
45:RA:51:THR:HG21	45:RA:243:ARG:HH21	1.64	0.62
45:RG:188:ILE:HD12	45:RG:425:LEU:HD11	1.80	0.62
45:SE:284:GLU:HG2	45:SE:286:LEU:HD12	1.81	0.62
46:SH:313:ALA:HB3	46:SH:349:ILE:HG12	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SI:277:SER:O	45:SI:281:ALA:N	2.33	0.62
45:TE:11:GLN:NE2	47:TE:501:GTP:O3A	2.33	0.62
46:TH:229:VAL:HG12	46:TH:233:MET:HE2	1.80	0.62
45:TK:328:VAL:HG11	45:TK:353:VAL:HG21	1.81	0.62
46:UF:293:MET:HE2	46:UF:367:PHE:HB2	1.80	0.62
45:VE:64:ARG:NH1	45:VE:129:CYS:SG	2.73	0.62
45:VG:167:LEU:HD13	45:VG:200:VAL:HB	1.81	0.62
46:VJ:113:ILE:HD13	46:VJ:150:LEU:HD22	1.81	0.62
45:WE:352:LYS:HZ1	46:WH:178:THR:HA	1.64	0.62
46:WF:68:LEU:HB3	46:WF:96:GLY:HA2	1.82	0.62
46:WJ:88:ASP:OD1	46:WJ:89:ASN:N	2.33	0.62
46:WN:31:ASP:OD2	46:WN:33:THR:OG1	2.17	0.62
45:DC:104:ALA:HB2	45:DC:413:MET:HE2	1.80	0.62
1:0A:135:SER:H	1:0A:138:TRP:HD1	1.46	0.62
11:0S:129:ILE:HD12	11:0S:130:PRO:HD2	1.81	0.62
11:0S:279:LYS:HB3	11:0S:281:LEU:HD23	1.80	0.62
7:1G:55:ALA:O	7:1G:57:ASN:N	2.33	0.62
19:1J:273:TRP:HE1	46:IL:276:ARG:HH21	1.48	0.62
21:1L:524:ARG:NH1	46:BF:358:PRO:O	2.32	0.62
21:1L:527:ILE:HD11	21:1L:588:ILE:HG21	1.82	0.62
15:1X:78:ASN:HA	46:MF:276:ARG:HD2	1.82	0.62
27:2C:237:LEU:HB2	27:2C:257:MET:HE2	1.82	0.62
28:2F:57:ASP:OD1	28:2F:59:ARG:NE	2.33	0.62
30:2H:196:SER:HB3	46:AD:40:SER:HB2	1.81	0.62
11:2S:171:LEU:HD23	11:2S:207:VAL:HG11	1.82	0.62
1:3A:35:TYR:HD1	1:3A:47:PRO:HA	1.65	0.62
14:3V:22:ARG:HH22	45:MA:422:ARG:HB3	1.65	0.62
34:6R:318:TYR:HE2	46:CN:273:LEU:HA	1.64	0.62
45:AM:98:ASP:O	45:AM:105:ARG:NH1	2.32	0.62
45:BC:111:GLY:O	45:BC:115:VAL:HG13	1.98	0.62
45:BC:223:THR:HG23	45:BC:225:THR:H	1.65	0.62
46:BD:309:ARG:NH1	46:BD:343:GLU:OE1	2.33	0.62
46:BH:135:ILE:HG13	46:BH:152:ILE:HD11	1.82	0.62
45:BI:27:GLU:OE2	45:BI:361:THR:OG1	2.13	0.62
46:BN:143:THR:O	46:BN:147:MET:HG2	1.98	0.62
46:CD:67:ASP:O	46:CD:92:PHE:HA	2.00	0.62
45:CM:244:PHE:HB2	45:CM:356:ASN:HD21	1.63	0.62
45:DM:259:LEU:O	45:DM:380:ASN:ND2	2.33	0.62
46:EJ:54:ALA:HA	46:FJ:283:ALA:HB2	1.81	0.62
46:FH:292:GLN:HG2	46:FH:298:ASN:HD22	1.65	0.62
45:FK:262:TYR:HB2	45:FK:265:ILE:HG22	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FN:48:ASN:O	46:FN:62:ARG:NH1	2.31	0.62
45:GG:298:PRO:HB3	45:GG:308:ARG:NH1	2.14	0.62
46:GJ:66:MET:HE1	46:GJ:147:MET:HG3	1.82	0.62
46:HB:135:ILE:HG13	46:HB:152:ILE:HD11	1.81	0.62
45:IA:251:ASP:OD1	45:IA:252:ILE:N	2.33	0.62
46:IF:316:LEU:HD13	46:IF:352:SER:HB2	1.82	0.62
45:JE:222:PRO:HD2	46:JF:324:LYS:HE3	1.82	0.62
45:KA:127:ASP:OD1	45:KA:128:ASN:N	2.33	0.62
46:KD:51:TYR:HB3	46:KD:59:TYR:HB3	1.80	0.62
45:KE:406:HIS:HA	45:KE:409:VAL:HG12	1.82	0.62
46:KF:257:LEU:HD21	46:KF:314:SER:HB2	1.81	0.62
46:KH:62:ARG:NH1	46:KH:127:CYS:SG	2.72	0.62
46:KJ:256:ASN:HD22	46:KJ:350:LYS:HD2	1.63	0.62
46:KL:257:LEU:HD21	46:KL:314:SER:HB2	1.82	0.62
45:LI:251:ASP:H	45:LI:254:GLU:HB2	1.65	0.62
46:LL:316:LEU:HD13	46:LL:352:SER:HB2	1.81	0.62
46:MB:133:PHE:HB2	46:MB:164:MET:SD	2.40	0.62
45:MG:241:SER:OG	45:MG:250:VAL:O	2.18	0.62
45:MK:116:ASP:OD1	45:MK:117:LEU:N	2.31	0.62
45:NM:11:GLN:HG2	45:NM:15:GLN:HE22	1.65	0.62
45:OE:155:GLU:OE2	45:OE:156:ARG:NH1	2.31	0.62
46:PD:267:MET:HE3	46:PD:301:CYS:HB2	1.80	0.62
45:QA:226:ASN:ND2	45:QA:367:ASP:OD2	2.32	0.62
45:QG:133:GLN:HB3	45:QG:252:ILE:HD11	1.81	0.62
45:RC:274:PRO:HD3	45:RC:291:ILE:HD11	1.81	0.62
46:RD:302:ALA:HB3	46:RD:377:MET:HE1	1.82	0.62
45:RG:404:PHE:HD1	45:RG:407:TRP:HZ3	1.48	0.62
46:RJ:19:LYS:O	46:RJ:22:GLU:HG3	2.00	0.62
46:RJ:54:ALA:HA	46:SJ:283:ALA:HB2	1.80	0.62
46:RJ:63:ALA:O	46:RJ:89:ASN:ND2	2.31	0.62
46:SF:148:GLY:O	46:SF:152:ILE:HG12	1.99	0.62
45:SM:164:LYS:O	45:SM:166:LYS:NZ	2.33	0.62
46:SN:299:MET:HG3	46:SN:301:CYS:H	1.63	0.62
45:TC:155:GLU:OE2	45:TC:193:SER:OG	2.18	0.62
46:TD:302:ALA:HB3	46:TD:377:MET:HE1	1.82	0.62
45:TM:101:ASN:HA	45:TM:144:GLY:H	1.64	0.62
46:UF:73:MET:HA	46:UF:76:VAL:HG12	1.82	0.62
45:UI:352:LYS:HZ1	46:UJ:178:THR:HA	1.65	0.62
45:UM:328:VAL:HG11	45:UM:353:VAL:HG21	1.80	0.62
46:VN:190:HIS:CD2	46:VN:411:ALA:HA	2.35	0.62
45:WA:370:LYS:HZ1	45:WA:372:MET:HE2	1.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:WB:284:LEU:HD11	46:WB:362:LYS:HB3	1.82	0.62
45:WE:72:PRO:HG2	46:WF:1:MET:HE2	1.82	0.62
45:WI:406:HIS:HA	45:WI:409:VAL:HG12	1.81	0.62
46:WJ:45:GLU:OE2	46:WJ:46:ARG:NH2	2.33	0.62
46:WN:100:ASN:ND2	46:WN:401:GLU:OE1	2.31	0.62
1:0A:3:GLN:NE2	34:7R:6:PRO:O	2.32	0.62
22:1M:113:ARG:HA	22:1M:113:ARG:NH1	2.15	0.62
9:1N:428:HIS:ND1	9:1N:430:ASP:OD1	2.32	0.62
23:1O:219:LEU:HA	23:1O:222:LEU:HG	1.82	0.62
24:1P:222:LEU:HD12	45:TG:282:TYR:CZ	2.35	0.62
24:1P:226:HIS:CE1	45:TG:279:GLU:HA	2.34	0.62
11:1S:46:TRP:CH2	45:WC:89:PRO:HD3	2.35	0.62
23:2O:417:GLU:O	23:2O:421:LYS:HG2	2.00	0.62
24:2P:428:ALA:HA	24:2P:431:ARG:HE	1.65	0.62
12:3T:264:LYS:HZ3	13:3U:28:GLU:HG3	1.64	0.62
27:4C:139:TYR:O	27:4C:140:GLN:HG3	1.99	0.62
35:4S:81:HIS:NE2	45:WA:164:LYS:HG2	2.15	0.62
34:5R:321:MET:HB2	46:CJ:279:GLN:HE22	1.64	0.62
45:BG:76:ASP:OD2	46:BH:46:ARG:NH2	2.33	0.62
46:CB:309:ARG:NH1	46:CB:343:GLU:OE1	2.31	0.62
45:CI:128:ASN:OD1	45:DI:285:GLN:NE2	2.33	0.62
46:DD:12:CYS:O	46:DD:16:ILE:HG12	1.99	0.62
45:DE:251:ASP:OD1	45:DE:252:ILE:N	2.33	0.62
46:DN:178:THR:HB	46:DN:181:GLU:HG3	1.82	0.62
45:EC:370:LYS:HA	45:EC:370:LYS:HE3	1.81	0.62
46:ED:2:ARG:NH2	45:EE:73:THR:OG1	2.33	0.62
46:EL:309:ARG:NH2	46:EL:426:GLN:O	2.31	0.62
45:FE:408:TYR:HB3	45:FE:413:MET:HE3	1.82	0.62
45:FI:81:GLY:O	45:FI:84:ARG:NH1	2.33	0.62
46:FN:178:THR:HB	46:FN:181:GLU:HG3	1.81	0.62
45:HC:164:LYS:O	45:HC:166:LYS:NZ	2.33	0.62
46:HJ:66:MET:HE1	46:HJ:147:MET:SD	2.40	0.62
45:HK:244:PHE:HB2	45:HK:356:ASN:HD21	1.65	0.62
46:HN:286:VAL:HA	46:HN:289:LEU:HD12	1.82	0.62
45:KE:109:THR:O	45:KE:112:LYS:NZ	2.32	0.62
45:KK:46:ASP:O	45:KK:50:ASN:ND2	2.33	0.62
45:ME:64:ARG:NH1	45:ME:129:CYS:SG	2.73	0.62
46:NH:96:GLY:O	46:NH:103:LYS:NZ	2.33	0.62
45:OA:99:ALA:HB3	45:OA:145:THR:HB	1.82	0.62
46:PL:2:ARG:H	46:PL:129:CYS:HB3	1.64	0.62
46:QH:49:VAL:HG23	46:QH:50:TYR:CD2	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QL:285:THR:HG23	46:QL:287:PRO:HD2	1.80	0.62
46:RF:164:MET:HB2	46:RF:197:ASP:H	1.64	0.62
46:RL:324:LYS:HG2	46:RL:328:GLU:OE2	1.99	0.62
46:SB:46:ARG:NH2	45:SC:76:ASP:OD2	2.32	0.62
45:SG:9:VAL:HG12	45:SG:68:LEU:HB2	1.81	0.62
46:SN:86:ARG:HE	46:SN:87:PRO:HD2	1.64	0.62
46:TH:100:ASN:ND2	46:TH:401:GLU:OE1	2.32	0.62
46:UF:198:GLU:HG2	46:UF:266:PHE:HE2	1.65	0.62
46:VD:109:GLY:HA2	46:VD:147:MET:HE2	1.81	0.62
45:VE:15:GLN:OE1	45:VE:228:ASN:ND2	2.32	0.62
45:WA:241:SER:OG	45:WA:250:VAL:O	2.17	0.62
46:WD:67:ASP:OD1	46:WD:68:LEU:N	2.32	0.62
45:WG:239:THR:HG23	45:WG:243:ARG:HE	1.65	0.62
9:0N:180:ASN:O	9:0N:211:HIS:NE2	2.32	0.62
13:2U:34:LEU:HG	13:2U:35:GLY:H	1.64	0.62
31:3I:287:ARG:NE	31:3I:287:ARG:HA	2.14	0.62
25:3R:143:ASN:OD1	46:BN:218:THR:OG1	2.18	0.62
11:3S:148:ASP:OD1	11:3S:150:GLN:NE2	2.32	0.62
34:4R:12:LEU:HB2	34:4R:15:HIS:CD2	2.35	0.62
35:4S:110:ARG:HA	35:4S:157:ILE:HD11	1.82	0.62
15:4X:81:ARG:HD3	34:5R:15:HIS:CE1	2.35	0.62
36:5C:43:CYS:SG	46:KJ:391:ARG:NE	2.73	0.62
36:5D:71:SER:O	46:NN:359:LYS:NZ	2.29	0.62
45:AC:161:TYR:HB3	45:AC:164:LYS:HG2	1.80	0.62
45:AG:76:ASP:OD1	45:AG:79:ARG:NH2	2.33	0.62
45:AG:280:LYS:NZ	45:MG:90:GLU:OE1	2.33	0.62
46:AJ:97:ALA:HA	46:AJ:103:LYS:HE2	1.82	0.62
46:AN:230:SER:HA	46:AN:233:MET:HE2	1.82	0.62
45:BE:250:VAL:HG13	45:BE:254:GLU:HB2	1.82	0.62
45:BG:181:VAL:N	46:BH:350:LYS:HZ1	1.98	0.62
45:DK:276:ILE:HD11	45:DK:280:LYS:HG3	1.82	0.62
46:DL:16:ILE:HD12	46:DL:229:VAL:HG21	1.82	0.62
45:DM:326:LYS:HB3	46:DN:208:TYR:HE1	1.63	0.62
46:EL:267:MET:HE1	46:EL:301:CYS:H	1.65	0.62
46:FL:268:ILE:HG22	46:FL:368:VAL:HG22	1.81	0.62
45:GA:97:GLU:OE1	46:GB:131:GLN:NE2	2.31	0.62
45:GE:326:LYS:HE2	45:GE:326:LYS:N	2.15	0.62
45:GI:164:LYS:O	45:GI:166:LYS:NZ	2.33	0.62
45:HI:64:ARG:NH1	45:HI:129:CYS:SG	2.73	0.62
45:IG:251:ASP:OD1	45:IG:252:ILE:N	2.31	0.62
46:IH:316:LEU:HD13	46:IH:352:SER:HB2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JD:54:ALA:HA	46:KD:283:ALA:HB2	1.82	0.62
46:KF:107:THR:OG1	46:KF:108:GLU:OE1	2.17	0.62
46:KJ:1:MET:HB2	46:KJ:48:ASN:HD21	1.65	0.62
46:KL:221:THR:HG23	46:KL:223:GLY:H	1.65	0.62
46:LH:64:ILE:HD13	46:LH:119:VAL:HG23	1.82	0.62
46:MB:267:MET:HB2	46:MB:299:MET:HE2	1.82	0.62
46:MB:276:ARG:HA	46:MB:279:GLN:HE21	1.65	0.62
45:MI:371:VAL:HG12	45:MI:373:ARG:H	1.65	0.62
45:NA:392:ASP:OD1	45:NA:422:ARG:NH2	2.33	0.62
45:OM:248:LEU:HD13	45:OM:355:ILE:HD12	1.82	0.62
45:PM:120:ASP:HA	45:PM:123:ARG:HH21	1.65	0.62
46:QD:114:ASP:OD1	46:QD:115:SER:N	2.33	0.62
45:QI:284:GLU:HG3	45:QI:286:LEU:HD22	1.81	0.62
45:RC:402:ARG:HD3	45:RC:402:ARG:O	2.00	0.62
45:SA:48:ALA:HB1	45:SA:243:ARG:HB2	1.82	0.62
45:SC:77:GLU:HA	45:SC:80:THR:HG22	1.82	0.62
45:SE:338:LYS:HG2	45:SE:340:THR:HG22	1.82	0.62
46:TB:238:CYS:HA	46:TB:241:ARG:CZ	2.30	0.62
45:TC:99:ALA:C	45:TC:105:ARG:HH21	2.07	0.62
45:TE:60:LYS:NZ	45:UE:282:TYR:O	2.33	0.62
46:UJ:347:ASN:ND2	45:UK:176:GLN:O	2.33	0.62
45:UM:121:ARG:HH21	45:UM:125:LEU:HD21	1.63	0.62
45:VA:3:GLU:HG2	45:VA:132:LEU:HA	1.81	0.62
45:VA:120:ASP:OD1	45:VA:123:ARG:NH2	2.26	0.62
46:VL:207:LEU:HD13	46:VL:210:ILE:HD11	1.82	0.62
45:WA:72:PRO:HG2	46:WB:1:MET:HE2	1.82	0.62
46:WB:164:MET:HB2	46:WB:197:ASP:H	1.63	0.62
46:WH:74:ASP:OD1	46:WH:77:ARG:NH1	2.32	0.62
46:WH:164:MET:HB3	46:WH:197:ASP:H	1.64	0.62
2:0B:326:VAL:HG23	2:0B:327:THR:HG23	1.82	0.61
4:0D:85:VAL:HG12	46:EB:355:ASP:HB2	1.82	0.61
5:0E:60:THR:O	5:0E:63:GLU:N	2.31	0.61
13:0U:487:LEU:HD12	13:0U:517:TRP:CE3	2.35	0.61
5:1E:8:LEU:HA	5:1E:11:ARG:HG2	1.81	0.61
21:1L:37:ALA:O	21:1L:41:LYS:HB2	2.00	0.61
21:1L:858:LEU:HD13	21:1L:861:ARG:HE	1.64	0.61
9:1N:226:ASN:O	29:2G:42:ASN:ND2	2.33	0.61
24:1P:217:HIS:O	24:1P:220:LYS:HG2	2.00	0.61
11:1S:82:GLU:HA	12:1T:43:ILE:HD11	1.82	0.61
4:2D:78:ALA:O	4:2D:80[A]:GLN:NE2	2.33	0.61
20:2K:246:LYS:O	20:2K:250:GLU:HG2	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:2K:433:LEU:HG	45:GE:282:TYR:CE2	2.34	0.61
27:3C:294:ILE:HG23	27:3C:295:VAL:HG23	1.82	0.61
21:3L:93:PRO:O	21:3L:95:GLN:NE2	2.27	0.61
27:4C:299:TYR:OH	46:KN:43:GLN:NE2	2.26	0.61
10:6Q:93:VAL:HG21	10:6Q:136:LEU:HD11	1.80	0.61
45:BC:88:HIS:CD2	45:CC:280:LYS:HZ1	2.18	0.61
45:BC:209:ILE:HD11	45:BC:230:LEU:HD23	1.82	0.61
46:BF:68:LEU:HD13	46:BF:93:GLY:HA3	1.82	0.61
46:CB:107:THR:OG1	46:CB:108:GLU:OE1	2.16	0.61
45:CK:324:VAL:HG12	45:CK:326:LYS:HG2	1.82	0.61
45:DK:422:ARG:O	45:DK:422:ARG:NH1	2.33	0.61
46:DN:100:ASN:ND2	46:DN:401:GLU:OE1	2.33	0.61
45:FG:11:GLN:NE2	46:FH:247:ASN:OD1	2.33	0.61
46:FL:200:MET:HE1	46:FL:266:PHE:CD2	2.35	0.61
46:FL:207:LEU:HB3	46:FL:225:LEU:HD22	1.82	0.61
46:GF:222:TYR:O	46:GF:226:ASN:ND2	2.28	0.61
46:GH:65:LEU:HB3	46:GH:73:MET:HE1	1.82	0.61
46:GH:272:PRO:HG3	46:GH:284:LEU:HD11	1.82	0.61
45:HA:210:TYR:OH	46:HB:323:THR:OG1	2.18	0.61
46:HN:32:PRO:O	46:HN:83:GLN:NE2	2.33	0.61
46:IN:215:LEU:HB3	46:IN:217:LEU:HD23	1.82	0.61
46:IN:273:LEU:H	46:IN:292:GLN:HE22	1.46	0.61
46:JB:276:ARG:NH2	46:JB:279:GLN:HE22	1.97	0.61
45:JC:339:ARG:HH11	45:JC:339:ARG:HA	1.64	0.61
46:JL:68:LEU:HD21	46:JL:147:MET:HE1	1.81	0.61
45:KG:265:ILE:HG22	45:KG:432:TYR:HE1	1.64	0.61
46:MF:128:ASP:OD1	46:MF:129:CYS:N	2.33	0.61
46:NB:200:MET:SD	46:NB:268:ILE:HD11	2.41	0.61
46:NF:302:ALA:HB3	46:NF:377:MET:HE1	1.82	0.61
45:NG:287:SER:N	45:NG:290:GLU:OE2	2.32	0.61
46:NJ:113:ILE:HG12	46:NJ:117:LEU:HD23	1.80	0.61
46:NL:125:GLU:OE2	46:OL:336:LYS:NZ	2.33	0.61
45:OA:75:ILE:HD11	45:OA:92:LEU:HB3	1.82	0.61
45:OA:387:VAL:HA	45:OA:390:ARG:HG2	1.81	0.61
45:OE:256:GLN:HG2	46:OH:397:TRP:CH2	2.33	0.61
46:OH:252:LYS:O	46:OH:256:ASN:ND2	2.33	0.61
45:OM:207:GLU:HG3	45:OM:304:LYS:HE3	1.80	0.61
46:PN:73:MET:HB3	46:PN:77:ARG:HH21	1.65	0.61
46:QD:15:GLN:NE2	49:QD:501:GDP:N7	2.48	0.61
45:QE:88:HIS:CE1	45:QE:90:GLU:HB2	2.35	0.61
45:RE:288:VAL:HA	45:RE:291:ILE:HG12	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SG:169:PHE:HB3	45:SG:204:LEU:HD11	1.81	0.61
45:SK:286:LEU:O	45:SK:373:ARG:NH1	2.27	0.61
46:SL:121:ARG:NH2	46:SL:158:GLU:OE2	2.33	0.61
46:TJ:235:GLY:HA3	46:TJ:366:THR:HG21	1.82	0.61
45:VA:174:SER:OG	45:VA:206:ASN:OD1	2.16	0.61
46:VB:309:ARG:NH1	46:VB:343:GLU:OE1	2.32	0.61
46:VF:148:GLY:O	46:VF:152:ILE:HG12	1.99	0.61
46:VH:222:TYR:O	46:VH:226:ASN:ND2	2.24	0.61
45:VI:206:ASN:HB3	45:VI:210:TYR:HE2	1.64	0.61
46:WN:148:GLY:O	46:WN:152:ILE:HG12	2.01	0.61
3:0C:103:GLN:O	3:0C:106:ILE:HG22	2.00	0.61
8:0H:419:LEU:HD22	8:1H:75:LEU:HD21	1.81	0.61
17:1F:113:ASN:C	17:1F:113:ASN:HD22	2.08	0.61
19:1J:111:TYR:OH	46:HF:57:GLY:N	2.29	0.61
11:1S:259:PHE:HB3	11:1S:287:ILE:HD11	1.81	0.61
14:1V:105:LYS:HE3	14:1V:107:ALA:HB3	1.81	0.61
1:2A:83:LEU:C	34:5R:70:ARG:HH12	2.08	0.61
31:2I:40:LYS:HG2	45:GG:214:ARG:HH21	1.65	0.61
20:2K:266:LEU:O	45:GK:282:TYR:OH	2.18	0.61
12:2T:89:ILE:HD13	14:2V:186:HIS:HB2	1.82	0.61
12:2T:197:GLN:CD	12:2T:198:ASP:H	2.08	0.61
5:3E:13:ARG:HH21	5:3E:89:ARG:HH11	1.48	0.61
12:3T:106:ILE:HG12	12:3T:213:LEU:HD12	1.81	0.61
14:3V:33:PRO:HB3	45:MA:304:LYS:HD2	1.82	0.61
30:4H:169:THR:HB	34:5R:85:TRP:HE1	1.64	0.61
39:6F:138:TYR:HD2	39:6F:141:THR:H	1.48	0.61
41:6H:289:LYS:NZ	46:FH:276:ARG:HD2	2.15	0.61
45:AE:326:LYS:NZ	46:AH:218:THR:O	2.32	0.61
46:AL:310:TYR:HD2	46:AL:371:SER:HB3	1.64	0.61
45:BA:116:ASP:OD1	45:BA:117:LEU:N	2.33	0.61
45:BA:256:GLN:HB3	46:BD:397:TRP:CZ3	2.35	0.61
45:BG:101:ASN:HA	45:BG:144:GLY:H	1.64	0.61
45:BI:371:VAL:HG12	45:BI:373:ARG:H	1.64	0.61
46:CB:19:LYS:NZ	46:CB:223:GLY:O	2.32	0.61
46:CD:70:PRO:O	46:CD:74:ASP:HB2	2.00	0.61
45:CK:331:SER:O	45:CK:335:ILE:HD12	2.00	0.61
45:CM:101:ASN:HA	45:CM:144:GLY:H	1.65	0.61
45:DG:9:VAL:HG12	45:DG:68:LEU:HB2	1.82	0.61
45:FI:329:ASN:ND2	46:FL:175:VAL:HG12	2.11	0.61
45:FK:328:VAL:HG11	45:FK:353:VAL:HG21	1.82	0.61
45:GE:2:ARG:HH21	46:GH:70:PRO:HD2	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GM:226:ASN:ND2	45:GM:367:ASP:OD2	2.33	0.61
45:HI:298:PRO:HG3	45:HI:308:ARG:HH22	1.65	0.61
46:IB:31:ASP:OD2	46:IB:37:HIS:ND1	2.33	0.61
46:JJ:73:MET:HE1	46:JJ:92:PHE:HB3	1.81	0.61
46:JL:309:ARG:NH2	46:JL:426:GLN:O	2.33	0.61
46:KJ:172:SER:HB2	46:KJ:174:LYS:HZ3	1.64	0.61
46:MF:31:ASP:OD1	46:MF:35:THR:N	2.31	0.61
45:MG:244:PHE:HB2	45:MG:356:ASN:HD21	1.65	0.61
45:MK:408:TYR:HB3	45:MK:413:MET:HE3	1.82	0.61
45:NG:399:TYR:OH	45:NG:415:GLU:OE2	2.18	0.61
45:NM:398:MET:HE1	46:NN:345:ILE:HD12	1.82	0.61
46:OB:325:GLU:O	46:OB:329:GLN:HG3	2.00	0.61
46:OL:135:ILE:HB	46:OL:166:THR:HG22	1.82	0.61
45:OM:265:ILE:HG12	45:OM:432:TYR:HE1	1.64	0.61
45:QG:352:LYS:HZ1	46:QH:178:THR:HG23	1.64	0.61
45:QM:141:VAL:HG11	45:QM:172:TYR:HD1	1.64	0.61
46:RL:55:THR:HG23	46:SL:283:ALA:HA	1.82	0.61
46:SL:154:LYS:HE3	46:SL:154:LYS:HA	1.83	0.61
46:TJ:131:GLN:OE1	46:TJ:251:ARG:NH2	2.32	0.61
46:TJ:321:MET:HB2	45:TK:221:ARG:HH22	1.66	0.61
46:TL:325:GLU:H	45:TM:221:ARG:NH2	1.98	0.61
45:VC:60:LYS:NZ	45:VC:85:GLN:O	2.32	0.61
45:VK:88:HIS:HB3	45:VK:91:GLN:HG2	1.82	0.61
46:VL:54:ALA:HB3	46:VL:58:ARG:HB3	1.82	0.61
46:WH:139:LEU:HD12	46:WH:170:VAL:HG12	1.82	0.61
46:WJ:31:ASP:OD1	46:WJ:35:THR:N	2.33	0.61
46:WL:97:ALA:HA	46:WL:103:LYS:HD3	1.81	0.61
6:0F:24:THR:O	6:0F:30:GLN:NE2	2.33	0.61
1:1A:112:LEU:HD22	25:1R:166:TYR:CE2	2.35	0.61
21:1L:67:ARG:HH21	45:BI:365:GLY:H	1.47	0.61
21:1L:517:ARG:HA	21:1L:520:VAL:HG22	1.82	0.61
21:1L:780:GLN:O	46:BD:320:ARG:NH2	2.34	0.61
9:1N:30:MET:HE1	29:2G:62:LYS:HE3	1.82	0.61
23:1O:232:GLY:O	23:1O:236:ILE:HD12	2.00	0.61
24:1P:161:LEU:HD13	45:TI:372:MET:HE1	1.82	0.61
15:1X:64:ARG:HD2	15:1X:68:ARG:HH11	1.65	0.61
28:2F:35:LYS:NZ	28:2F:36:THR:O	2.33	0.61
20:2K:252:HIS:O	20:2K:255:GLN:HG3	2.01	0.61
9:2N:209:ILE:HG23	9:2N:218:LEU:HB3	1.82	0.61
23:2O:407:GLU:O	23:2O:411:LYS:HG2	2.00	0.61
12:2T:135:GLN:HE22	12:2T:140:GLN:HB3	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:3B:43:ARG:NH2	16:3B:81:SER:OG	2.33	0.61
27:3C:108:LEU:HD22	27:3C:167:ARG:HH11	1.65	0.61
25:3R:17:ILE:HD11	15:3X:88:PHE:CE1	2.34	0.61
11:3S:121:CYS:SG	11:3S:122:GLY:N	2.65	0.61
13:3U:289:ASP:OD2	13:3U:291:THR:OG1	2.16	0.61
13:3U:465:VAL:HG21	13:3U:505:LEU:HD11	1.81	0.61
40:6G:165:THR:HA	46:VH:213:ARG:HH12	1.65	0.61
40:6G:263:SER:O	45:VA:339:ARG:NH2	2.31	0.61
40:6G:263:SER:N	45:VA:337:THR:O	2.33	0.61
45:AC:11:GLN:NE2	46:AD:247:ASN:OD1	2.33	0.61
45:AG:292:THR:HG21	45:AG:331:SER:HB3	1.82	0.61
45:AK:292:THR:HG21	45:AK:331:SER:HB3	1.81	0.61
45:AM:102:ASN:ND2	45:AM:407:TRP:O	2.33	0.61
46:BH:86:ARG:NE	46:BH:86:ARG:HA	2.14	0.61
45:BM:222:PRO:O	46:BN:322:SER:OG	2.17	0.61
46:CB:11:GLN:HA	46:CB:72:THR:HG21	1.82	0.61
46:CF:11:GLN:NE2	49:CF:501:GDP:O3B	2.28	0.61
46:CJ:87:PRO:HA	46:CJ:90:PHE:HD2	1.64	0.61
45:DK:287:SER:N	45:DK:290:GLU:OE2	2.31	0.61
46:DL:363:MET:HE3	46:DL:363:MET:HA	1.82	0.61
45:EA:188:ILE:HD12	45:EA:425:LEU:HD11	1.82	0.61
45:FC:284:GLU:HG2	45:FC:286:LEU:HD22	1.83	0.61
46:FD:290:THR:HA	46:FD:293:MET:HG2	1.82	0.61
46:FJ:139:LEU:HD22	46:FJ:170:VAL:HG12	1.81	0.61
46:GB:222:TYR:O	46:GB:226:ASN:ND2	2.29	0.61
46:GJ:114:ASP:OD1	46:GJ:115:SER:N	2.33	0.61
46:GL:226:ASN:HD21	49:GL:502:GDP:HN1	1.47	0.61
46:HJ:273:LEU:H	46:HJ:292:GLN:HE22	1.47	0.61
45:IE:22:GLU:HG3	45:IE:83:TYR:CE2	2.36	0.61
45:IE:22:GLU:HG3	45:IE:83:TYR:HE2	1.64	0.61
46:IL:179:VAL:HG23	46:IL:180:VAL:HG23	1.83	0.61
46:JN:318:ARG:HE	46:JN:358:PRO:HG3	1.65	0.61
45:KC:151:SER:O	45:KC:155:GLU:HG2	2.00	0.61
46:KF:128:ASP:OD1	46:KF:129:CYS:N	2.31	0.61
45:KK:46:ASP:OD1	45:KK:47:ASP:N	2.31	0.61
46:LN:392:LYS:HD2	46:LN:395:LEU:HD22	1.82	0.61
45:ME:11:GLN:NE2	46:MF:245:GLN:O	2.33	0.61
45:MG:68:LEU:HD23	45:MG:93:ILE:HB	1.83	0.61
45:OC:177:VAL:HG11	46:OD:324:LYS:HZ2	1.65	0.61
45:OM:210:TYR:CD1	46:ON:324:LYS:HB3	2.36	0.61
45:OM:222:PRO:HG2	46:ON:324:LYS:HE2	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PB:73:MET:HA	46:PB:76:VAL:HG12	1.81	0.61
46:QF:271:ALA:HB3	46:QF:365:VAL:HB	1.82	0.61
45:QM:15:GLN:NE2	47:QM:501:GTP:O6	2.33	0.61
45:RM:72:PRO:HA	45:RM:75:ILE:HD13	1.80	0.61
45:SA:244:PHE:HB2	45:SA:356:ASN:HD21	1.65	0.61
46:SB:313:ALA:HB1	46:SB:367:PHE:HE1	1.65	0.61
46:SD:114:ASP:OD1	46:SD:115:SER:N	2.33	0.61
45:SE:203:MET:HE3	45:SE:384:ILE:HD11	1.81	0.61
46:SF:268:ILE:HG13	46:SF:300:MET:HE2	1.82	0.61
45:TE:294:SER:HA	45:TE:297:GLU:HG2	1.82	0.61
45:TI:288:VAL:HG11	45:TI:327:ASP:HB3	1.82	0.61
46:TJ:178:THR:HB	46:TJ:181:GLU:HG3	1.82	0.61
45:TK:89:PRO:HD2	45:UK:280:LYS:NZ	2.15	0.61
46:TL:135:ILE:HG13	46:TL:152:ILE:HD11	1.81	0.61
46:TN:67:ASP:O	46:TN:92:PHE:HA	2.00	0.61
46:UD:2:ARG:H	46:UD:129:CYS:HG	1.48	0.61
45:VA:292:THR:HG21	45:VA:331:SER:HB3	1.81	0.61
45:VA:387:VAL:HA	45:VA:390:ARG:HE	1.65	0.61
46:VB:86:ARG:NH1	46:VB:88:ASP:HB3	2.15	0.61
46:VH:309:ARG:NH1	46:VH:343:GLU:OE1	2.32	0.61
46:VJ:222:TYR:O	46:VJ:226:ASN:ND2	2.31	0.61
46:VJ:399:THR:HA	46:VJ:403:MET:HB3	1.81	0.61
46:WD:105:HIS:CE1	46:WD:150:LEU:HD12	2.35	0.61
46:WL:285:THR:HA	46:WL:363:MET:HE1	1.82	0.61
45:CE:175:PRO:HG3	45:CE:390:ARG:HH12	1.65	0.61
11:0S:131:VAL:O	11:0S:179:ARG:NH2	2.33	0.61
12:0T:268:LEU:HG	13:0U:43:ILE:HG21	1.80	0.61
14:0V:110:GLU:HA	14:0V:112:ARG:HH12	1.66	0.61
4:1D:177:THR:HG21	46:EF:47:ILE:HG22	1.83	0.61
7:1G:128:LEU:HD11	46:JB:39:ASP:HB3	1.81	0.61
8:1H:151:GLN:HE22	33:4F:17:LYS:HG3	1.65	0.61
9:1N:366:GLU:HA	9:1N:369:GLN:HG3	1.82	0.61
10:1Q:177:LEU:HD11	10:1Q:181:PHE:HB3	1.82	0.61
12:1T:147:PHE:CD1	46:MF:106:TYR:HB3	2.35	0.61
21:2L:526:ARG:HH12	46:BN:363:MET:HE1	1.65	0.61
9:2N:225:TYR:O	9:2N:231:GLN:NE2	2.33	0.61
10:2Q:22:LEU:HB2	10:2Q:25:TRP:HB2	1.83	0.61
10:2Q:163:ARG:HG3	10:2Q:164:ARG:HG3	1.82	0.61
25:2R:345:CYS:SG	25:2R:349:THR:OG1	2.57	0.61
11:2S:254:GLN:N	11:2S:254:GLN:OE1	2.32	0.61
15:2X:81:ARG:HD2	46:MJ:276:ARG:HD3	1.80	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:3B:208:ASN:OD1	16:3B:209:ASP:N	2.33	0.61
32:3D:9:THR:HB	32:3D:80:LYS:HD3	1.83	0.61
25:3R:283:ARG:NH1	25:3R:296:PRO:O	2.33	0.61
34:4R:129:VAL:HG12	34:4R:144:PHE:HB3	1.83	0.61
40:6G:105:LYS:NZ	45:VI:176:GLN:HG2	2.16	0.61
34:7R:133:LYS:HA	34:7R:133:LYS:HE3	1.82	0.61
34:7R:302:LEU:H	46:CB:77:ARG:HH22	1.47	0.61
46:AB:91:VAL:HG21	46:AB:116:VAL:HB	1.82	0.61
45:AC:101:ASN:HA	45:AC:144:GLY:H	1.65	0.61
46:AJ:372:THR:HA	46:AJ:422:TYR:HE2	1.64	0.61
45:BM:214:ARG:NH1	45:BM:214:ARG:O	2.31	0.61
45:CC:239:THR:O	45:CC:243:ARG:NH1	2.33	0.61
46:CJ:67:ASP:OD1	46:CJ:68:LEU:N	2.34	0.61
46:CJ:248:SER:HA	46:CJ:252:LYS:HG3	1.82	0.61
45:CM:37:PRO:HB2	45:CM:40:LYS:HB2	1.82	0.61
45:CM:214:ARG:NH1	45:CM:214:ARG:HA	2.16	0.61
46:DD:48:ASN:O	46:DD:62:ARG:NH1	2.32	0.61
46:DD:247:ASN:HD21	45:DE:73:THR:HG21	1.66	0.61
46:DD:285:THR:HG22	46:DD:287:PRO:HD2	1.81	0.61
45:EC:288:VAL:O	45:EC:292:THR:HG23	2.01	0.61
45:EC:363:VAL:HG13	45:EC:366:GLY:HA3	1.83	0.61
46:ED:318:ARG:HG2	46:ED:357:PRO:HA	1.82	0.61
46:EH:107:THR:OG1	46:EH:108:GLU:OE1	2.16	0.61
45:FC:385:ALA:HB2	45:FC:432:TYR:HD2	1.65	0.61
46:FL:310:TYR:HD2	46:FL:371:SER:HB2	1.65	0.61
46:FN:173:PRO:HG2	46:FN:380:ARG:HE	1.65	0.61
46:FN:309:ARG:NH2	46:FN:426:GLN:O	2.33	0.61
46:GF:215:LEU:HD21	46:GF:273:LEU:HD12	1.82	0.61
45:GG:101:ASN:HA	45:GG:144:GLY:H	1.65	0.61
46:GJ:107:THR:OG1	46:GJ:108:GLU:OE1	2.14	0.61
46:GL:55:THR:HG21	46:HL:284:LEU:HD13	1.82	0.61
45:HE:288:VAL:HG11	45:HE:327:ASP:HB3	1.82	0.61
45:HI:284:GLU:HG2	45:HI:286:LEU:HD22	1.83	0.61
45:IE:11:GLN:HB2	45:IE:74:VAL:HG11	1.82	0.61
46:IH:58:ARG:HH22	45:JE:283:HIS:CE1	2.17	0.61
46:IJ:8:GLN:HE22	46:IJ:17:GLY:CA	2.13	0.61
45:IK:328:VAL:HG11	45:IK:353:VAL:HG21	1.83	0.61
46:IN:344:TRP:HB3	46:IN:430:ALA:HB2	1.81	0.61
46:KD:208:TYR:CE1	46:KD:225:LEU:HD11	2.35	0.61
46:LF:350:LYS:NZ	46:LF:352:SER:OG	2.33	0.61
45:MA:259:LEU:HD21	45:MA:316:SER:HB2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ND:263:LEU:HD22	46:ND:422:TYR:HD1	1.64	0.61
45:NE:90:GLU:CD	45:OE:280:LYS:HE2	2.24	0.61
45:NI:254:GLU:CD	46:NL:99:ASN:HD22	2.08	0.61
45:NK:97:GLU:HB2	46:NL:2:ARG:NH2	2.15	0.61
45:OG:108:TYR:HE2	45:OG:413:MET:HG2	1.66	0.61
45:OK:292:THR:HG21	45:OK:331:SER:HB3	1.82	0.61
45:OK:333:ALA:O	45:OK:337:THR:HG23	2.01	0.61
45:PG:220:GLU:C	45:PG:221:ARG:HD2	2.25	0.61
45:PI:348:PRO:HD3	46:PL:388:MET:HE1	1.82	0.61
45:QG:185:TYR:CZ	45:QG:398:MET:HE1	2.35	0.61
45:QK:284:GLU:HG2	45:QK:286:LEU:HD22	1.82	0.61
46:RH:11:GLN:OE1	46:RH:15:GLN:NE2	2.34	0.61
46:RH:331:LEU:HD11	45:RI:177:VAL:HG22	1.82	0.61
45:RM:108:TYR:HE2	45:RM:413:MET:HG2	1.63	0.61
45:SC:241:SER:OG	45:SC:250:VAL:O	2.19	0.61
45:SI:371:VAL:HG12	45:SI:373:ARG:H	1.64	0.61
46:SL:32:PRO:HG3	46:SL:81:PHE:CE1	2.36	0.61
46:SL:148:GLY:O	46:SL:152:ILE:HD12	1.99	0.61
46:TH:313:ALA:HB1	46:TH:367:PHE:HE1	1.65	0.61
46:TJ:77:ARG:NH1	46:TJ:82:GLY:O	2.32	0.61
45:UA:203:MET:HE3	45:UA:384:ILE:HG12	1.81	0.61
45:UC:7:ILE:HD13	45:UC:153:LEU:HD21	1.83	0.61
45:UE:326:LYS:HE2	46:UF:208:TYR:HD1	1.63	0.61
45:UK:285:GLN:HE22	45:UK:287:SER:HB2	1.65	0.61
45:UM:98:ASP:OD1	45:UM:145:THR:OG1	2.17	0.61
46:UN:87:PRO:HD2	46:VN:281:TYR:HE1	1.64	0.61
45:VC:31:GLN:NE2	45:VC:35:GLN:O	2.33	0.61
46:VL:16:ILE:HD12	46:VL:229:VAL:HG11	1.81	0.61
45:WA:306:ASP:OD2	45:WA:308:ARG:NH2	2.33	0.61
46:WL:260:PHE:HB2	46:WL:263:LEU:HD13	1.83	0.61
2:0B:241:LEU:HD11	46:JL:227:HIS:CE1	2.35	0.61
7:0G:55:ALA:O	7:0G:57:ASN:N	2.33	0.61
5:1E:168:TYR:OH	5:1E:189:TRP:NE1	2.32	0.61
8:1H:350:MET:HA	8:1H:353:ILE:HG12	1.83	0.61
21:1L:887:LYS:HZ3	21:1L:888:VAL:HG12	1.65	0.61
24:1P:148:GLY:O	24:1P:153:LYS:NZ	2.34	0.61
24:1P:263:ARG:O	24:1P:267:GLU:HG2	2.01	0.61
10:1Q:33:HIS:HB3	35:4S:197:ARG:HH11	1.66	0.61
11:1S:213:ILE:HA	11:1S:216:LYS:NZ	2.16	0.61
28:2F:84:TRP:O	28:2F:85:MET:HE2	2.00	0.61
29:2G:79:GLU:HG2	22:2M:318:ARG:HH22	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:2M:80:PHE:HB2	45:IG:39:ASP:HB2	1.81	0.61
11:2S:97:ARG:HH22	46:MJ:262:ARG:NH1	1.98	0.61
13:2U:414:THR:HG23	13:2U:417:CYS:H	1.66	0.61
13:2U:600:PHE:HB3	13:2U:602:TRP:HE1	1.66	0.61
23:3O:426:GLU:OE2	45:UG:370:LYS:NZ	2.32	0.61
27:4C:121:ALA:HB1	27:4C:164:LEU:HB3	1.81	0.61
34:5R:78:ILE:HG23	34:5R:86:LEU:HD21	1.82	0.61
34:6R:317:HIS:O	46:CN:227:HIS:NE2	2.33	0.61
45:BC:27:GLU:OE2	45:BC:361:THR:OG1	2.17	0.61
45:BG:292:THR:HG21	45:BG:331:SER:HB3	1.81	0.61
46:CF:253:LEU:HD12	46:CF:257:LEU:HD13	1.82	0.61
45:CI:259:LEU:O	45:CI:380:ASN:ND2	2.32	0.61
46:CJ:396:HIS:HA	46:CJ:399:THR:HG22	1.81	0.61
45:CK:75:ILE:HG23	45:CK:92:LEU:HD12	1.82	0.61
45:CM:70:LEU:HD13	45:CM:95:GLY:HA3	1.81	0.61
45:CM:90:GLU:OE2	45:CM:124:LYS:NZ	2.33	0.61
45:DE:210:TYR:CE2	45:DE:227:LEU:HD11	2.36	0.61
46:ED:371:SER:O	46:ED:422:TYR:OH	2.18	0.61
46:EF:99:ASN:HA	46:EF:142:GLY:H	1.64	0.61
46:EL:2:ARG:NH2	45:EM:71:GLU:OE1	2.32	0.61
46:FB:66:MET:HE2	46:FB:116:VAL:HG21	1.82	0.61
45:GG:282:TYR:OH	45:GG:370:LYS:O	2.17	0.61
46:HF:73:MET:HA	46:HF:76:VAL:HG12	1.82	0.61
46:HN:16:ILE:HD12	46:HN:229:VAL:HG21	1.81	0.61
45:IK:100:ALA:HA	46:IL:252:LYS:HG2	1.82	0.61
46:JB:114:ASP:OD1	46:JB:115:SER:N	2.33	0.61
45:JI:72:PRO:HD2	46:JJ:2:ARG:NH2	2.15	0.61
45:JK:401:LYS:HZ1	46:JL:344:TRP:CG	2.18	0.61
46:KH:313:ALA:HB3	46:KH:349:ILE:HG22	1.82	0.61
45:LG:11:GLN:NE2	46:LH:245:GLN:O	2.33	0.61
45:LI:269:LEU:HD12	45:LI:301:MET:HE2	1.83	0.61
46:MB:350:LYS:NZ	46:MB:352:SER:OG	2.33	0.61
45:MC:27:GLU:OE1	45:MC:243:ARG:NH1	2.25	0.61
45:NM:7:ILE:HB	45:NM:137:VAL:HG12	1.82	0.61
46:OH:316:LEU:HD13	46:OH:352:SER:HB2	1.82	0.61
46:OJ:252:LYS:O	46:OJ:256:ASN:ND2	2.33	0.61
45:OM:8:HIS:HB2	45:OM:67:PHE:HD1	1.66	0.61
45:PC:329:ASN:HA	45:PC:332:ILE:HG22	1.81	0.61
46:QB:107:THR:OG1	46:QB:108:GLU:OE1	2.16	0.61
46:QD:207:LEU:HB3	46:QD:225:LEU:HD22	1.82	0.61
45:QK:55:GLU:O	45:RK:285:GLN:NE2	2.23	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RJ:371:SER:O	46:RJ:422:TYR:OH	2.16	0.61
45:SK:192:HIS:NE2	45:SK:424:ASP:OD2	2.33	0.61
46:SL:310:TYR:HA	46:SL:371:SER:HA	1.81	0.61
46:SL:334:GLN:HA	46:SL:341:PHE:HE2	1.65	0.61
45:TC:210:TYR:HE1	45:TC:227:LEU:HD11	1.66	0.61
45:TG:116:ASP:OD1	45:TG:117:LEU:N	2.34	0.61
45:TI:72:PRO:HA	45:TI:75:ILE:HD13	1.81	0.61
46:TL:55:THR:HG23	46:UL:283:ALA:HA	1.82	0.61
46:UD:322:SER:OG	45:UE:221:ARG:NH1	2.33	0.61
46:UH:46:ARG:NH2	45:UI:76:ASP:OD2	2.33	0.61
45:UM:89:PRO:HD2	45:VK:280:LYS:CE	2.30	0.61
46:VB:317:PHE:HB2	46:VB:353:ILE:HG13	1.82	0.61
46:VD:143:THR:OG1	49:VD:501:GDP:O1B	2.19	0.61
47:WA:501:GTP:O1G	46:WB:252:LYS:NZ	2.33	0.61
45:WI:242:LEU:HD11	45:WI:252:ILE:HG12	1.80	0.61
7:0G:150:GLU:HG2	27:4C:264:PRO:HB2	1.82	0.61
21:1L:39:VAL:HG23	21:1L:44:ILE:HB	1.83	0.61
22:1M:355:LEU:HD23	22:1M:357:ASP:H	1.66	0.61
13:1U:233:VAL:HG22	13:1U:234:LYS:HG2	1.83	0.61
23:2O:337:PHE:HB3	23:2O:341:LYS:HZ1	1.65	0.61
13:2U:494:LYS:HB2	13:2U:508:THR:HG23	1.83	0.61
15:2X:44:THR:HA	15:2X:47:GLN:HG2	1.82	0.61
31:3I:220:LYS:NZ	46:GL:336:LYS:HD3	2.16	0.61
33:4F:159:PRO:O	46:IN:320:ARG:NH1	2.34	0.61
30:4H:200:TYR:O	30:4H:204:PHE:HB2	2.01	0.61
37:5F:13:ASN:HD21	37:5F:23:ASP:HB2	1.65	0.61
34:5R:143:VAL:HG13	46:AL:78:ALA:HB2	1.81	0.61
46:AH:257:LEU:HD11	46:AH:314:SER:HB3	1.83	0.61
46:AN:31:ASP:OD1	46:AN:35:THR:N	2.29	0.61
45:BA:221:ARG:CZ	46:BB:325:GLU:HB2	2.30	0.61
46:BB:372:THR:HA	46:BB:422:TYR:HE2	1.66	0.61
46:BD:297:LYS:HA	46:BD:297:LYS:HE3	1.82	0.61
46:BN:61:PRO:HD3	46:BN:84:LEU:HD12	1.83	0.61
46:DL:350:LYS:NZ	45:DM:181:VAL:HG22	2.16	0.61
46:EF:31:ASP:OD2	46:EF:35:THR:OG1	2.19	0.61
46:FD:100:ASN:HB3	46:FD:103:LYS:HB2	1.82	0.61
46:FD:309:ARG:H	46:FD:372:THR:HG1	1.48	0.61
45:FE:51:THR:HG22	45:FE:52:PHE:HD1	1.65	0.61
46:FF:167:PHE:CE1	46:FF:233:MET:HG2	2.35	0.61
45:GC:292:THR:HG21	45:GC:331:SER:HB3	1.80	0.61
45:GK:2:ARG:HB2	45:GK:133:GLN:NE2	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GK:76:ASP:OD2	46:GL:46:ARG:NH2	2.34	0.61
46:HD:133:PHE:HD2	46:HD:164:MET:HE1	1.64	0.61
46:JL:86:ARG:HD2	46:JL:88:ASP:HB2	1.82	0.61
45:JM:90:GLU:CD	45:KM:280:LYS:HZ3	2.08	0.61
46:KB:426:GLN:NE2	46:KB:427:ASP:OD1	2.33	0.61
45:KG:11:GLN:NE2	46:KH:245:GLN:O	2.33	0.61
46:LB:10:GLY:O	46:LB:14:ASN:ND2	2.33	0.61
45:LI:11:GLN:NE2	46:LJ:245:GLN:O	2.33	0.61
46:LL:257:LEU:HD21	46:LL:314:SER:HB2	1.82	0.61
46:LN:12:CYS:O	46:LN:16:ILE:HG12	2.00	0.61
46:MD:12:CYS:O	46:MD:16:ILE:HG13	2.00	0.61
46:ML:114:ASP:OD1	46:ML:115:SER:N	2.34	0.61
46:NB:91:VAL:HG21	46:NB:116:VAL:HB	1.81	0.61
46:ND:324:LYS:HG3	46:ND:325:GLU:N	2.15	0.61
46:NN:65:LEU:HB3	46:NN:73:MET:HE1	1.83	0.61
45:OG:192:HIS:CE1	45:OG:424:ASP:OD2	2.54	0.61
45:OK:195:LEU:HD21	45:OK:264:ARG:HE	1.65	0.61
45:PA:50:ASN:O	45:PA:64:ARG:NH2	2.33	0.61
45:PI:56:THR:HG23	45:PI:58:ALA:H	1.66	0.61
46:PJ:389:PHE:HZ	46:PJ:405:GLU:HG2	1.65	0.61
46:PL:67:ASP:O	46:PL:92:PHE:HA	2.00	0.61
46:PN:309:ARG:H	46:PN:372:THR:HG1	1.47	0.61
45:QE:88:HIS:HB3	45:QE:91:GLN:HG2	1.82	0.61
46:RB:293:MET:HE2	46:RB:367:PHE:HB3	1.82	0.61
46:RD:31:ASP:OD1	46:RD:37:HIS:ND1	2.33	0.61
45:RG:116:ASP:OD1	45:RG:117:LEU:N	2.34	0.61
46:RL:264:HIS:ND1	46:RL:264:HIS:O	2.33	0.61
46:RL:268:ILE:N	46:RL:299:MET:HE1	2.15	0.61
45:SC:27:GLU:HB3	45:SC:361:THR:HG21	1.82	0.61
46:SD:136:THR:HG22	46:SD:167:PHE:HB2	1.82	0.61
46:SD:162:ARG:NH1	45:SE:97:GLU:OE2	2.32	0.61
46:SJ:222:TYR:HA	46:SJ:225:LEU:HG	1.83	0.61
46:SN:178:THR:HB	46:SN:181:GLU:HG3	1.82	0.61
46:SN:269:GLY:HA2	46:SN:300:MET:HE2	1.83	0.61
45:TE:352:LYS:HZ3	46:TF:178:THR:HA	1.66	0.61
45:WC:286:LEU:O	45:WC:373:ARG:NH2	2.33	0.61
45:WG:211:ASP:HA	45:WG:214:ARG:HG3	1.82	0.61
45:CE:319:TYR:CE2	45:CE:328:VAL:HG22	2.36	0.61
45:DC:390:ARG:HH21	45:DC:394:LYS:HG3	1.64	0.61
13:0U:106:GLN:HB2	13:0U:120:LEU:HD23	1.83	0.61
5:1E:30:ALA:HB1	5:1E:51:VAL:HG21	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:1O:172:LEU:O	23:1O:175:LYS:HG3	2.01	0.61
24:1P:243:GLU:O	24:1P:247:ILE:HG12	2.01	0.61
24:1P:267:GLU:HA	24:1P:270:ILE:HG22	1.83	0.61
21:2L:743:ILE:HD11	21:2L:783:ILE:HD12	1.81	0.61
13:2U:54:HIS:CE1	13:2U:85:ILE:HD13	2.35	0.61
23:3O:273:LEU:HB3	23:3O:277:LYS:NZ	2.15	0.61
33:4F:71:TYR:HD1	45:II:31:GLN:HG3	1.65	0.61
37:5H:44:ARG:HH12	45:OK:285:GLN:HA	1.65	0.61
46:AF:229:VAL:HG12	46:AF:233:MET:HE2	1.82	0.61
46:AH:372:THR:HA	46:AH:422:TYR:HE1	1.65	0.61
46:BD:300:MET:HE2	46:BD:300:MET:HA	1.83	0.61
45:BE:88:HIS:HA	45:CE:283:HIS:HD1	1.66	0.61
46:CB:258:ILE:HG13	46:CB:266:PHE:HZ	1.65	0.61
45:CC:244:PHE:HB2	45:CC:356:ASN:HD21	1.66	0.61
46:CF:103:LYS:NZ	46:CF:401:GLU:OE2	2.29	0.61
45:CG:292:THR:HG21	45:CG:331:SER:HB3	1.82	0.61
46:CN:31:ASP:OD2	46:CN:37:HIS:ND1	2.32	0.61
46:CN:32:PRO:HG3	46:CN:81:PHE:HE1	1.65	0.61
46:EF:60:VAL:HG21	46:EF:86:ARG:HG2	1.83	0.61
45:EI:304:LYS:HD2	45:EI:304:LYS:O	2.00	0.61
46:EL:302:ALA:HB3	46:EL:377:MET:HE1	1.82	0.61
45:EM:55:GLU:HG3	45:EM:57:GLY:H	1.66	0.61
45:EM:121:ARG:NH1	45:EM:125:LEU:HD11	2.16	0.61
45:FC:71:GLU:OE2	46:FD:2:ARG:NH2	2.34	0.61
45:FE:116:ASP:OD1	45:FE:117:LEU:N	2.33	0.61
46:FF:309:ARG:NH2	46:FF:426:GLN:O	2.24	0.61
45:GA:88:HIS:HA	45:HA:283:HIS:CE1	2.35	0.61
46:GH:133:PHE:HB2	46:GH:164:MET:HE1	1.81	0.61
45:HE:352:LYS:HZ2	46:HH:179:VAL:HG22	1.64	0.61
45:HK:11:GLN:NE2	46:HL:245:GLN:O	2.34	0.61
46:HL:378:PHE:HB3	46:HL:415:MET:HE1	1.82	0.61
45:HM:76:ASP:HA	45:HM:79:ARG:HG2	1.82	0.61
46:IB:240:LEU:HD11	46:IB:249:ASP:HA	1.83	0.61
45:IE:226:ASN:ND2	45:IE:367:ASP:OD2	2.34	0.61
46:IH:238:CYS:SG	46:IH:241:ARG:NH2	2.74	0.61
46:IL:73:MET:HE1	46:IL:92:PHE:HB3	1.82	0.61
45:JC:221:ARG:HH11	45:JC:221:ARG:HA	1.66	0.61
45:JI:338:LYS:HE3	45:JI:340:THR:HG22	1.81	0.61
46:KJ:114:ASP:OD1	46:KJ:115:SER:N	2.34	0.61
46:LF:58:ARG:NH2	46:MF:281:TYR:OH	2.34	0.61
46:LF:383:GLU:OE2	46:LF:384:GLN:NE2	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ML:293:MET:HE1	46:ML:315:ALA:HB2	1.82	0.61
45:NK:238:LEU:HA	45:NK:318:MET:HE1	1.82	0.61
45:OC:208:ALA:HA	45:OC:304:LYS:HE3	1.81	0.61
45:OC:414:GLU:OE2	45:OC:417:GLU:N	2.31	0.61
45:OG:352:LYS:HZ3	46:OJ:178:THR:HA	1.66	0.61
46:PD:257:LEU:HD11	46:PD:314:SER:HB2	1.82	0.61
45:PE:261:PRO:HG2	45:PE:313:MET:HE2	1.82	0.61
46:PF:67:ASP:O	46:PF:92:PHE:HA	2.00	0.61
46:QL:329:GLN:HE22	46:QL:330:MET:HE3	1.64	0.61
45:QM:55:GLU:HG3	45:QM:57:GLY:H	1.65	0.61
46:RF:237:THR:HG23	46:RF:241:ARG:HH21	1.65	0.61
46:RN:222:TYR:O	46:RN:226:ASN:ND2	2.29	0.61
45:SA:135:PHE:HB2	45:SA:166:LYS:HG2	1.83	0.61
45:SG:367:ASP:OD1	45:SG:368:LEU:N	2.33	0.61
45:SI:247:ALA:HB3	45:SI:355:ILE:HD11	1.83	0.61
46:SJ:177:ASP:OD1	46:SJ:178:THR:N	2.34	0.61
45:SM:69:ASP:HB3	45:SM:75:ILE:HD11	1.83	0.61
46:TB:313:ALA:HB1	46:TB:367:PHE:HE1	1.65	0.61
45:TG:326:LYS:HD3	46:TH:220:PRO:HD2	1.83	0.61
46:TL:244:GLY:HA3	46:TL:354:CYS:HA	1.83	0.61
45:TM:274:PRO:HG3	45:TM:286:LEU:HD11	1.83	0.61
46:TN:222:TYR:O	46:TN:226:ASN:ND2	2.28	0.61
45:UA:226:ASN:ND2	45:UA:367:ASP:OD2	2.34	0.61
46:UL:190:HIS:ND1	46:UL:191:GLN:OE1	2.23	0.61
46:UL:200:MET:HE2	46:UL:268:ILE:HG12	1.81	0.61
46:VB:222:TYR:O	46:VB:226:ASN:ND2	2.29	0.61
45:VC:406:HIS:HA	45:VC:409:VAL:HG12	1.82	0.61
46:VF:158:GLU:HG3	46:VF:159:TYR:CD1	2.35	0.61
45:WC:51:THR:HG23	45:WC:52:PHE:HD2	1.66	0.61
45:WC:399:TYR:O	45:WC:402:ARG:NH1	2.33	0.61
6:0F:137:ARG:HG3	20:1K:170:GLN:HE22	1.65	0.61
20:1K:80:ARG:NH1	22:1M:286:GLY:H	1.99	0.61
25:1R:439:TYR:OH	25:1R:444:ASP:OD1	2.17	0.61
12:1T:41:PHE:HZ	12:1T:171:PHE:HB2	1.66	0.61
1:3A:17:GLN:NE2	34:6R:46:GLU:O	2.33	0.61
16:3B:90:ARG:HD2	16:3B:175:ALA:HB2	1.83	0.61
23:3O:406:ARG:HH12	46:UH:276:ARG:HD2	1.66	0.61
12:3T:61:GLY:O	12:3T:146:MET:N	2.31	0.61
12:3T:102:HIS:ND1	12:3T:219:GLU:OE2	2.30	0.61
13:3U:468:SER:HB2	13:3U:472:SER:O	2.01	0.61
36:5C:156:VAL:HG12	36:5C:158:ASN:H	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5D:94:MET:H	45:KM:430:LYS:NZ	1.98	0.61
43:8P:230:UNK:HA	45:PE:58:ALA:HB1	1.82	0.61
46:BF:65:LEU:HD22	46:BF:90:PHE:HE1	1.65	0.61
46:BJ:372:THR:HA	46:BJ:422:TYR:HE2	1.65	0.61
46:CD:324:LYS:HE2	45:CE:222:PRO:HG2	1.83	0.61
46:CF:181:GLU:HB3	46:CF:182:PRO:HD3	1.83	0.61
46:DF:222:TYR:O	46:DF:226:ASN:ND2	2.29	0.61
46:EB:152:ILE:HD13	46:EB:164:MET:HE2	1.81	0.61
46:FF:215:LEU:HD22	46:FF:217:LEU:HD23	1.80	0.61
45:FG:396:ASP:OD1	45:FG:422:ARG:NH1	2.33	0.61
46:FL:309:ARG:NH2	46:FL:426:GLN:O	2.28	0.61
46:GB:309:ARG:H	46:GB:372:THR:HG1	1.48	0.61
45:GC:121:ARG:HH12	45:GC:124:LYS:HZ3	1.47	0.61
46:GL:77:ARG:NH1	46:GL:82:GLY:O	2.33	0.61
45:HA:284:GLU:HG2	45:HA:286:LEU:HD22	1.81	0.61
45:HE:292:THR:HG21	45:HE:331:SER:HB3	1.81	0.61
46:HN:67:ASP:OD1	46:HN:68:LEU:N	2.34	0.61
46:HN:222:TYR:O	46:HN:226:ASN:ND2	2.24	0.61
45:IA:1:MET:HG2	45:IA:2:ARG:HD3	1.82	0.61
45:IA:352:LYS:HZ1	46:ID:179:VAL:H	1.48	0.61
46:ID:86:ARG:NH2	45:JA:284:GLU:OE1	2.34	0.61
46:IH:114:ASP:OD1	46:IH:115:SER:N	2.33	0.61
45:JG:141:VAL:HG22	45:JG:187:SER:HA	1.83	0.61
46:JH:65:LEU:HD11	46:JH:90:PHE:HD1	1.66	0.61
46:KD:156:ARG:NH2	46:KD:160:PRO:O	2.33	0.61
45:KG:185:TYR:CZ	45:KG:398:MET:HE3	2.36	0.61
46:LF:132:GLY:HA3	46:LF:163:ILE:HG22	1.82	0.61
45:LG:116:ASP:OD1	45:LG:117:LEU:N	2.34	0.61
45:LM:11:GLN:NE2	46:LN:245:GLN:O	2.34	0.61
45:MC:258:ASN:HD21	46:MF:178:THR:HG23	1.64	0.61
46:MD:299:MET:HE1	46:MD:367:PHE:HE2	1.66	0.61
46:MF:66:MET:HE3	46:MF:151:LEU:HD22	1.82	0.61
46:MJ:377:MET:SD	46:MJ:380:ARG:NH2	2.73	0.61
45:MM:398:MET:HE2	46:MN:345:ILE:HG13	1.83	0.61
45:NE:352:LYS:HZ1	46:NH:179:VAL:HG22	1.65	0.61
45:NG:132:LEU:O	45:NG:164:LYS:NZ	2.32	0.61
46:NN:222:TYR:HA	46:NN:225:LEU:HD12	1.82	0.61
45:PC:167:LEU:HG	45:PC:200:VAL:HB	1.82	0.61
46:PD:67:ASP:O	46:PD:92:PHE:HA	2.01	0.61
46:PN:86:ARG:HH11	46:QL:281:TYR:HB2	1.65	0.61
46:QB:31:ASP:OD2	46:QB:37:HIS:ND1	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RC:241:SER:OG	45:RC:250:VAL:O	2.16	0.61
45:RK:90:GLU:OE2	45:SK:280:LYS:NZ	2.26	0.61
46:SL:68:LEU:HB3	46:SL:96:GLY:HA2	1.82	0.61
45:TA:215:ARG:NH2	45:TA:299:ALA:O	2.33	0.61
46:UB:186:THR:O	46:UB:190:HIS:ND1	2.34	0.61
45:UK:399:TYR:O	45:UK:402:ARG:NH1	2.34	0.61
45:VA:2:ARG:HH22	46:VD:70:PRO:HD2	1.66	0.61
45:VG:223:THR:HG23	45:VG:225:THR:H	1.66	0.61
46:VL:158:GLU:HG3	46:VL:159:TYR:CD1	2.36	0.61
46:WN:371:SER:O	46:WN:422:TYR:OH	2.14	0.61
2:0B:203:THR:HG21	45:KI:285:GLN:OE1	2.01	0.61
8:0H:399:LYS:HD3	8:1H:71:GLU:HG3	1.83	0.61
14:0V:232:ILE:HG23	14:0V:238:LYS:HD3	1.83	0.61
17:1F:159:THR:OG1	46:HL:291:GLN:OE1	2.19	0.61
21:1L:901:LYS:H	46:CB:320:ARG:HH22	1.47	0.61
23:1O:102:GLU:HA	23:1O:105:LYS:HG3	1.83	0.61
13:1U:350:ARG:O	13:1U:352:ARG:NH1	2.34	0.61
23:2O:198:LYS:O	23:2O:201:GLU:HG3	2.01	0.61
11:2S:40:ASN:HB2	11:2S:45:PRO:HG3	1.82	0.61
10:3Q:34:ILE:HD11	10:3Q:47:LEU:HD21	1.83	0.61
13:3U:314:LEU:HD21	13:3U:317:THR:HG23	1.83	0.61
34:4R:256:LEU:HD23	34:4R:280:LEU:HD13	1.83	0.61
36:5C:84:TYR:HE1	45:NI:18:ASN:HB3	1.66	0.61
45:AC:241:SER:OG	45:AC:250:VAL:O	2.19	0.61
46:AF:67:ASP:O	46:AF:92:PHE:HA	1.99	0.61
45:BA:215:ARG:NH2	45:BA:300:ASN:OD1	2.34	0.61
46:BD:166:THR:HG21	46:BD:192:LEU:HD11	1.83	0.61
46:BD:190:HIS:NE2	46:BD:410:GLU:OE1	2.34	0.61
45:BG:135:PHE:HB2	45:BG:166:LYS:HG2	1.82	0.61
46:BL:91:VAL:HG21	46:BL:116:VAL:HB	1.81	0.61
45:CA:408:TYR:HB3	45:CA:413:MET:HE2	1.82	0.61
46:CB:324:LYS:NZ	45:CC:221:ARG:HA	2.16	0.61
46:CB:344:TRP:HB3	46:CB:430:ALA:HB2	1.82	0.61
46:CF:6:HIS:CD2	46:CF:134:GLN:HE22	2.19	0.61
45:FC:288:VAL:HA	45:FC:291:ILE:HG12	1.82	0.61
46:FD:86:ARG:HH11	46:GD:281:TYR:HB3	1.64	0.61
46:GJ:36:TYR:OH	46:GJ:40:SER:O	2.18	0.61
46:HF:3:GLU:CD	46:HF:3:GLU:H	2.09	0.61
45:HI:211:ASP:OD1	45:HI:215:ARG:NH1	2.32	0.61
46:IN:173:PRO:HD2	46:IN:380:ARG:NH2	2.16	0.61
46:JD:31:ASP:OD1	46:JD:35:THR:N	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JD:204:ASN:OD1	49:JD:501:GDP:N2	2.32	0.61
46:JF:15:GLN:HB3	46:JF:226:ASN:HD21	1.65	0.61
45:KC:241:SER:OG	45:KC:250:VAL:O	2.16	0.61
46:KH:114:ASP:OD1	46:KH:115:SER:N	2.34	0.61
46:KJ:10:GLY:O	46:KJ:14:ASN:ND2	2.33	0.61
45:KK:151:SER:O	45:KK:155:GLU:HG3	2.00	0.61
46:LH:101:TRP:HB2	46:LH:184:ASN:HB3	1.81	0.61
46:MD:114:ASP:OD1	46:MD:115:SER:N	2.33	0.61
45:NC:287:SER:N	45:NC:290:GLU:OE2	2.32	0.61
46:NF:167:PHE:CE1	46:NF:233:MET:HG2	2.36	0.61
45:OC:88:HIS:HA	45:PC:280:LYS:HE3	1.83	0.61
46:PD:119:VAL:HG13	46:PD:122:LYS:HZ3	1.66	0.61
45:PI:71:GLU:OE2	45:PI:73:THR:HG23	2.01	0.61
45:QA:337:THR:O	45:QA:339:ARG:NH1	2.33	0.61
45:RC:7:ILE:HB	45:RC:137:VAL:HG12	1.81	0.61
46:RF:68:LEU:HB3	46:RF:96:GLY:HA2	1.83	0.61
46:RL:238:CYS:SG	46:RL:318:ARG:HD3	2.41	0.61
45:SC:188:ILE:HG21	45:SC:422:ARG:HH12	1.65	0.61
46:SL:350:LYS:HZ1	45:SM:181:VAL:H	1.49	0.61
45:TA:56:THR:OG1	45:UA:283:HIS:O	2.18	0.61
45:TA:284:GLU:HG3	45:TA:286:LEU:HD22	1.82	0.61
46:TB:73:MET:HA	46:TB:76:VAL:HG12	1.82	0.61
45:TC:259:LEU:O	45:TC:380:ASN:ND2	2.34	0.61
46:TH:31:ASP:OD1	46:TH:35:THR:N	2.32	0.61
46:UH:139:LEU:HD13	46:UH:168:SER:HB3	1.83	0.61
46:UH:381:VAL:HG12	46:UH:385:PHE:HE2	1.65	0.61
46:UL:148:GLY:O	46:UL:152:ILE:HG12	1.99	0.61
45:VG:177:VAL:HG13	46:VH:327:ASP:OD1	2.01	0.61
46:WD:7:ILE:HG22	46:WD:64:ILE:HB	1.82	0.61
46:WJ:318:ARG:CZ	46:WJ:358:PRO:HG3	2.31	0.61
45:WK:195:LEU:O	45:WK:264:ARG:NH2	2.34	0.61
46:WN:207:LEU:HD22	46:WN:228:LEU:HD11	1.83	0.61
45:DC:9:VAL:HG12	45:DC:68:LEU:HB2	1.83	0.61
2:0B:134:ASN:CG	2:0B:135:GLN:H	2.09	0.61
2:0B:237:GLN:HA	46:JL:276:ARG:HH12	1.66	0.61
12:0T:277:THR:O	13:0U:41:ARG:NH2	2.34	0.61
16:1B:426:GLU:HG2	16:1B:462:LEU:HB3	1.83	0.61
9:1N:25:LEU:HD23	9:1N:29:LYS:HE2	1.81	0.61
24:1P:286:ILE:HA	24:1P:289:GLU:HG3	1.82	0.61
23:2O:195:GLN:HA	23:2O:198:LYS:HE2	1.81	0.61
26:2W:216:GLU:HA	26:2W:219:ILE:HD12	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3A:52:THR:HG21	34:6R:71:LYS:HB2	1.83	0.61
34:4R:182:ASP:OD1	34:4R:183:CYS:N	2.33	0.61
37:5E:61:LYS:HG2	46:OB:276:ARG:NH2	2.16	0.61
34:5R:480:ILE:HD12	34:5R:480:ILE:H	1.66	0.61
40:6G:150:GLU:O	46:VH:336:LYS:NZ	2.33	0.61
34:7R:12:LEU:HB2	34:7R:15:HIS:CD2	2.36	0.61
34:7R:126:THR:HG21	34:7R:147:ARG:HE	1.65	0.61
46:AD:107:THR:HG23	46:AD:108:GLU:OE2	2.01	0.61
46:AL:257:LEU:HD11	46:AL:314:SER:HB2	1.83	0.61
46:AL:293:MET:HE3	46:AL:367:PHE:HB2	1.83	0.61
45:AM:285:GLN:NE2	45:MM:55:GLU:O	2.27	0.61
45:BA:88:HIS:CE1	45:CA:280:LYS:HE2	2.36	0.61
45:BC:222:PRO:O	46:BD:324:LYS:NZ	2.27	0.61
45:BM:132:LEU:HD22	45:BM:164:LYS:HZ3	1.66	0.61
46:CB:238:CYS:SG	46:CB:239:CYS:N	2.74	0.61
45:CM:292:THR:HG21	45:CM:331:SER:HB3	1.82	0.61
45:DA:226:ASN:ND2	45:DA:367:ASP:OD2	2.34	0.61
46:DD:8:GLN:HE21	46:DD:65:LEU:HD22	1.66	0.61
45:DE:133:GLN:HB3	45:DE:252:ILE:HD12	1.83	0.61
45:DM:188:ILE:HG23	45:DM:425:LEU:HD11	1.83	0.61
46:EB:207:LEU:HD22	46:EB:228:LEU:HD11	1.83	0.61
45:EK:292:THR:HG21	45:EK:331:SER:HB2	1.82	0.61
45:GE:326:LYS:HD2	46:GH:208:TYR:CE1	2.36	0.61
46:IF:258:ILE:HD12	46:IF:264:HIS:HB3	1.82	0.61
45:IG:98:ASP:OD2	45:IG:99:ALA:N	2.33	0.61
46:IH:285:THR:HB	46:IH:287:PRO:HD2	1.82	0.61
46:IJ:6:HIS:HD2	46:IJ:134:GLN:HE22	1.49	0.61
46:IN:5:VAL:HG12	46:IN:62:ARG:HD3	1.81	0.61
46:IN:28:HIS:C	46:IN:43:GLN:HE21	2.09	0.61
45:JE:116:ASP:OD1	45:JE:117:LEU:N	2.33	0.61
46:JH:65:LEU:HD11	46:JH:90:PHE:CD1	2.36	0.61
45:JK:22:GLU:OE2	45:JK:229:ARG:NH1	2.34	0.61
45:KE:288:VAL:HA	45:KE:291:ILE:HG12	1.81	0.61
46:KJ:32:PRO:HG3	46:KJ:81:PHE:CE2	2.36	0.61
45:LC:387:VAL:HG12	45:LC:390:ARG:HH12	1.65	0.61
45:LG:226:ASN:ND2	45:LG:367:ASP:OD2	2.34	0.61
45:LI:319:TYR:HD2	45:LI:323:VAL:HG11	1.66	0.61
45:MG:288:VAL:HA	45:MG:291:ILE:HG12	1.82	0.61
45:MI:88:HIS:CE1	45:MI:90:GLU:HG2	2.36	0.61
45:MM:76:ASP:OD2	45:MM:79:ARG:NH2	2.30	0.61
45:NE:80:THR:O	45:NE:84:ARG:NH2	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:NL:68:LEU:HD13	46:NL:93:GLY:HA3	1.82	0.61
45:PI:90:GLU:H	45:QI:280:LYS:HZ1	1.49	0.61
45:PM:9:VAL:HG12	45:PM:146:GLY:HA2	1.83	0.61
46:QB:318:ARG:HB3	46:QB:357:PRO:HA	1.82	0.61
45:QC:384:ILE:HG22	45:QC:388:PHE:HE1	1.65	0.61
46:QH:54:ALA:HA	46:RH:283:ALA:HB2	1.83	0.61
45:QK:288:VAL:HG21	45:QK:327:ASP:HB3	1.83	0.61
45:RG:320:ARG:HG2	45:RG:356:ASN:HB3	1.82	0.61
46:RH:309:ARG:NH2	46:RH:426:GLN:O	2.25	0.61
46:RJ:8:GLN:HE22	46:RJ:17:GLY:HA3	1.65	0.61
46:RL:10:GLY:O	46:RL:14:ASN:ND2	2.34	0.61
46:RL:167:PHE:CE1	46:RL:233:MET:HG3	2.35	0.61
46:SD:200:MET:HG3	46:SD:266:PHE:HB2	1.82	0.61
45:SE:138:PHE:HZ	45:SE:235:ILE:HD12	1.66	0.61
45:SE:408:TYR:HB3	45:SE:413:MET:HE2	1.83	0.61
45:SK:21:TRP:HZ3	45:SK:63:PRO:HB3	1.63	0.61
45:SK:98:ASP:O	45:SK:105:ARG:NH1	2.34	0.61
45:TC:288:VAL:HG11	45:TC:327:ASP:HB3	1.81	0.61
46:TL:173:PRO:HG2	46:TL:380:ARG:HE	1.64	0.61
46:TL:189:VAL:HA	46:TL:192:LEU:HG	1.83	0.61
46:UB:190:HIS:CE1	46:UB:411:ALA:HB1	2.36	0.61
46:UN:97:ALA:HB2	46:UN:143:THR:HB	1.83	0.61
45:VK:264:ARG:CZ	45:VK:264:ARG:HA	2.30	0.61
46:VL:77:ARG:NH2	46:VL:83:GLN:OE1	2.34	0.61
46:WB:114:ASP:OD1	46:WB:115:SER:N	2.33	0.61
46:WJ:77:ARG:NH1	46:WJ:83:GLN:OE1	2.32	0.61
6:0F:196:LYS:O	6:0F:215:SER:OG	2.18	0.60
9:0N:60:LEU:HD21	9:0N:75:MET:HG2	1.83	0.60
12:0T:138:ILE:HA	12:0T:141:LYS:HB2	1.83	0.60
14:0V:91:GLY:HA3	46:LN:194:GLU:HB3	1.82	0.60
21:1L:427:ASN:HD22	45:CG:278:ALA:HB3	1.65	0.60
23:1O:271:ALA:HB3	45:UA:278:ALA:C	2.26	0.60
31:2I:103:ARG:HH21	46:GF:297:LYS:HA	1.66	0.60
23:2O:295:GLU:O	23:2O:298:GLN:HG3	2.01	0.60
13:2U:369:THR:HG21	13:2U:411:LEU:HB2	1.83	0.60
14:2V:99:PRO:HG2	45:LE:409:VAL:HG11	1.82	0.60
27:3C:33:ARG:NH1	27:3C:176:ASP:OD2	2.33	0.60
30:3H:174:PHE:CG	34:4R:147:ARG:CD	2.84	0.60
13:3U:504:GLN:OE1	13:3U:562:TYR:OH	2.20	0.60
15:3X:90:ARG:NH2	34:6R:47:GLU:O	2.33	0.60
27:4C:224:LYS:O	45:KM:221:ARG:NH2	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:4F:188:HIS:O	33:4F:214:ARG:NH1	2.33	0.60
36:5B:68:ASP:HA	37:5F:69:LYS:NZ	2.16	0.60
37:5E:116:TYR:HE1	45:NA:85:GLN:HA	1.66	0.60
10:6Q:54:VAL:O	10:6Q:157:HIS:ND1	2.29	0.60
34:7R:259:ASN:HB2	34:7R:351:ASN:HB2	1.83	0.60
45:AC:104:ALA:HB2	45:AC:413:MET:HE2	1.83	0.60
45:AE:88:HIS:CE1	45:AE:90:GLU:HG2	2.35	0.60
46:AJ:229:VAL:HG12	46:AJ:233:MET:HE2	1.83	0.60
45:AM:2:ARG:HH21	45:AM:243:ARG:HA	1.66	0.60
45:BA:265:ILE:HG22	45:BA:380:ASN:HD21	1.66	0.60
45:BC:221:ARG:HA	46:BD:324:LYS:HZ1	1.66	0.60
46:BJ:73:MET:HA	46:BJ:76:VAL:HG12	1.83	0.60
45:BM:271:SER:HB2	45:BM:377:MET:HB3	1.82	0.60
45:CK:206:ASN:OD1	47:CK:501:GTP:N2	2.31	0.60
46:CL:55:THR:HG23	46:DL:283:ALA:HA	1.83	0.60
46:EF:128:ASP:OD1	46:EF:129:CYS:N	2.34	0.60
45:FM:241:SER:OG	45:FM:250:VAL:O	2.14	0.60
46:FN:169:VAL:HG12	46:FN:202:ILE:HB	1.81	0.60
45:GG:358:GLN:NE2	45:GG:359:PRO:O	2.32	0.60
46:HB:86:ARG:HH12	46:IB:281:TYR:HB3	1.64	0.60
45:HC:76:ASP:OD2	46:HD:46:ARG:NH2	2.34	0.60
45:HE:180:ALA:HA	46:HF:350:LYS:HZ3	1.65	0.60
45:II:180:ALA:HA	46:IJ:350:LYS:NZ	2.16	0.60
46:IJ:139:LEU:HD13	46:IJ:168:SER:HB3	1.83	0.60
45:JC:221:ARG:HA	45:JC:221:ARG:NH1	2.16	0.60
46:KB:293:MET:HE3	46:KB:367:PHE:HB2	1.82	0.60
46:KL:263:LEU:HG	46:KL:422:TYR:HE1	1.66	0.60
46:KN:199:CYS:HB2	46:KN:265:PHE:HA	1.83	0.60
45:LK:387:VAL:HG12	45:LK:390:ARG:HH22	1.65	0.60
45:MK:398:MET:HE2	46:ML:345:ILE:HG13	1.83	0.60
45:OE:108:TYR:O	45:OE:112:LYS:NZ	2.33	0.60
46:OJ:371:SER:O	46:OJ:422:TYR:OH	2.19	0.60
46:OL:5:VAL:HG12	46:OL:62:ARG:HD3	1.82	0.60
45:PC:292:THR:HG21	45:PC:331:SER:HB3	1.80	0.60
46:PD:209:ASP:HB3	46:PD:213:ARG:HH12	1.65	0.60
46:PN:58:ARG:HH22	46:PN:84:LEU:HA	1.65	0.60
46:PN:86:ARG:NH1	46:QL:278:SER:HA	2.16	0.60
45:QA:28:HIS:NE2	45:QA:48:ALA:O	2.34	0.60
45:QC:319:TYR:HB3	45:QC:323:VAL:HG11	1.83	0.60
46:QH:284:LEU:HD11	46:QH:362:LYS:HB2	1.81	0.60
46:QL:55:THR:HG23	46:RL:283:ALA:HA	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QN:293:MET:HE2	46:QN:365:VAL:HG11	1.82	0.60
46:RB:117:LEU:HB3	46:RB:121:ARG:HH12	1.65	0.60
45:RE:217:LEU:HD11	45:RE:367:ASP:HB2	1.83	0.60
46:RH:268:ILE:HG22	46:RH:368:VAL:HG22	1.83	0.60
46:RJ:11:GLN:NE2	46:RJ:12:CYS:SG	2.74	0.60
45:RM:324:VAL:HG12	45:RM:326:LYS:HG3	1.83	0.60
46:SB:3:GLU:OE1	46:SB:62:ARG:NH1	2.34	0.60
46:SH:260:PHE:HB2	46:SH:263:LEU:HD13	1.82	0.60
46:SL:149:THR:OG1	46:SL:191:GLN:OE1	2.18	0.60
46:TJ:414:ASN:O	46:TJ:418:LEU:HG	2.01	0.60
46:UB:178:THR:HB	46:UB:181:GLU:HG3	1.82	0.60
46:UF:376:GLU:HA	46:UF:379:LYS:HG2	1.83	0.60
46:UL:200:MET:HE1	46:UL:268:ILE:N	2.16	0.60
45:UM:205:ASP:OD1	45:UM:206:ASN:N	2.34	0.60
45:CE:116:ASP:OD1	45:CE:117:LEU:N	2.34	0.60
7:0G:38:GLU:OE2	46:JL:359:LYS:NZ	2.26	0.60
13:0U:78:MET:N	13:0U:78:MET:SD	2.72	0.60
7:1G:115:PRO:HA	7:1G:118:GLN:OE1	2.01	0.60
8:1H:430:ASN:ND2	8:1H:436:GLN:OE1	2.34	0.60
19:1J:80:LYS:HZ1	45:IC:373:ARG:HB2	1.67	0.60
10:1Q:126:ASP:OD1	10:1Q:130:ASN:ND2	2.34	0.60
25:1R:156:LYS:HE3	25:1R:166:TYR:HD2	1.64	0.60
12:1T:65:ARG:HH21	46:MF:111:GLU:N	1.99	0.60
12:1T:236:THR:HG23	12:1T:239:SER:H	1.65	0.60
5:2E:46:ASP:HB3	34:5R:379:LYS:HE3	1.81	0.60
22:2M:256:MET:HE1	22:2M:337:ILE:HG13	1.83	0.60
25:2R:462:LYS:NZ	25:2R:465:GLU:HA	2.16	0.60
11:2S:85:GLN:HA	12:2T:35:LEU:HA	1.83	0.60
21:3L:58:LYS:O	21:3L:97:LYS:NZ	2.33	0.60
45:AK:88:HIS:CE1	45:AK:90:GLU:HG2	2.36	0.60
45:BC:69:ASP:OD1	45:BC:70:LEU:N	2.33	0.60
45:BC:331:SER:O	45:BC:335:ILE:HG12	2.00	0.60
46:BL:60:VAL:HG21	46:BL:86:ARG:NE	2.16	0.60
46:CB:132:GLY:HA3	46:CB:163:ILE:HG22	1.82	0.60
45:CC:292:THR:HG21	45:CC:331:SER:HB3	1.82	0.60
46:CH:252:LYS:HD2	45:CI:101:ASN:HB2	1.83	0.60
46:CL:31:ASP:OD1	46:CL:35:THR:N	2.30	0.60
45:CM:40:LYS:HE3	45:CM:40:LYS:HA	1.82	0.60
46:DB:331:LEU:HD11	45:DC:177:VAL:HG22	1.82	0.60
46:DH:8:GLN:NE2	46:DH:14:ASN:OD1	2.33	0.60
45:DK:311:LYS:HE3	45:DK:342:GLN:HB3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ED:66:MET:HE1	46:ED:147:MET:SD	2.41	0.60
46:EF:107:THR:OG1	46:EF:108:GLU:OE1	2.19	0.60
46:EN:207:LEU:HD13	46:EN:225:LEU:HB3	1.84	0.60
46:FF:285:THR:OG1	46:FF:288:GLU:OE1	2.19	0.60
45:FI:401:LYS:HZ1	46:FJ:344:TRP:CD1	2.19	0.60
46:GD:213:ARG:HH21	46:GD:297:LYS:HE3	1.65	0.60
46:GD:399:THR:HA	46:GD:403:MET:O	2.01	0.60
46:GN:257:LEU:HD11	46:GN:314:SER:HB2	1.83	0.60
46:HB:130:LEU:HD12	46:HB:131:GLN:H	1.65	0.60
45:HG:288:VAL:HG11	45:HG:327:ASP:HB3	1.82	0.60
46:HL:273:LEU:H	46:HL:292:GLN:HE22	1.47	0.60
46:IH:273:LEU:H	46:IH:292:GLN:HE22	1.48	0.60
45:IK:207:GLU:OE2	45:IK:304:LYS:HD3	2.01	0.60
46:JF:207:LEU:HD13	46:JF:225:LEU:HB3	1.83	0.60
45:KA:271:SER:HB3	45:KA:377:MET:HB3	1.81	0.60
46:KJ:218:THR:HG23	46:KJ:219:THR:HG23	1.82	0.60
45:KM:167:LEU:HG	45:KM:200:VAL:HB	1.83	0.60
45:LC:326:LYS:HZ3	46:LF:208:TYR:HB3	1.66	0.60
46:LD:114:ASP:OD1	46:LD:115:SER:N	2.35	0.60
46:LJ:83:GLN:O	46:MJ:281:TYR:OH	2.17	0.60
46:OB:290:THR:HA	46:OB:293:MET:HE3	1.82	0.60
46:OJ:2:ARG:HH21	46:OJ:46:ARG:HH12	1.49	0.60
46:PD:224:ASP:HA	46:PD:227:HIS:CD2	2.35	0.60
46:PL:133:PHE:HB2	46:PL:164:MET:HE1	1.82	0.60
45:QC:20:CYS:HA	45:QC:232:ALA:HB1	1.81	0.60
46:RD:73:MET:HA	46:RD:76:VAL:HG12	1.82	0.60
45:RG:352:LYS:NZ	46:RH:179:VAL:H	1.98	0.60
46:RL:67:ASP:O	46:RL:92:PHE:HA	2.00	0.60
45:SM:48:ALA:HB1	45:SM:243:ARG:HB2	1.83	0.60
45:TI:116:ASP:OD1	45:TI:117:LEU:N	2.31	0.60
46:TL:346:PRO:HD2	45:TM:398:MET:HE2	1.83	0.60
46:UL:173:PRO:HD3	46:UL:380:ARG:HE	1.66	0.60
45:VI:222:PRO:HD2	46:VJ:324:LYS:HD3	1.83	0.60
46:WD:318:ARG:HG2	46:WD:358:PRO:HD3	1.82	0.60
45:WE:27:GLU:OE2	45:WE:243:ARG:NH1	2.33	0.60
46:WF:362:LYS:HG2	46:WF:363:MET:HG3	1.83	0.60
45:WI:108:TYR:CD2	45:WI:413:MET:HE1	2.35	0.60
46:WJ:67:ASP:O	46:WJ:92:PHE:HA	2.00	0.60
2:0B:233:ASN:HB3	2:0B:236:ILE:HG22	1.84	0.60
12:0T:252:ARG:NH2	12:0T:255:SER:OG	2.33	0.60
16:1B:47:ASP:OD2	15:1X:108:LYS:NZ	2.28	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1D:166:ARG:HD3	4:1D:167:ILE:N	2.15	0.60
8:1H:132:ASN:OD1	8:1H:133:GLU:N	2.34	0.60
18:1I:22:LEU:HD12	46:ID:46:ARG:HE	1.67	0.60
18:1I:152:LYS:HZ3	45:KE:364:PRO:HG2	1.64	0.60
23:1O:97:LYS:O	23:1O:100:GLN:HG3	2.02	0.60
26:1W:245:LEU:HD21	26:1W:249:LYS:HE3	1.82	0.60
9:2N:180:ASN:O	9:2N:211:HIS:NE2	2.30	0.60
23:2O:177:LYS:HZ2	46:VL:362:LYS:HE2	1.67	0.60
24:2P:370:LYS:HZ3	24:2P:371:ARG:HH22	1.48	0.60
24:2P:413:LYS:O	24:2P:417:ILE:HG12	2.01	0.60
5:3E:138:THR:O	5:3E:142:VAL:HG23	2.01	0.60
30:3H:220:ARG:HG2	45:MG:84:ARG:HD3	1.83	0.60
25:3R:404:ARG:NH2	45:DK:57:GLY:O	2.34	0.60
13:3U:325:ASP:OD1	13:3U:339:CYS:HB3	2.00	0.60
33:4F:163:LYS:HE2	33:4F:168:GLU:HG3	1.83	0.60
35:4S:144:ILE:HD12	35:4S:144:ILE:H	1.66	0.60
37:5G:46:LEU:HG	37:5G:47:GLU:H	1.66	0.60
46:AB:375:GLN:HE22	46:AB:419:VAL:HA	1.65	0.60
46:AD:238:CYS:SG	46:AD:318:ARG:HD3	2.41	0.60
46:AN:86:ARG:HD2	46:BN:281:TYR:CD1	2.35	0.60
46:BB:253:LEU:O	46:BB:257:LEU:HB2	2.01	0.60
46:BH:268:ILE:HG13	46:BH:300:MET:HG3	1.82	0.60
45:BK:69:ASP:OD1	45:BK:70:LEU:N	2.34	0.60
45:CC:406:HIS:HA	45:CC:409:VAL:HG12	1.83	0.60
45:DE:123:ARG:NH1	45:DE:161:TYR:OH	2.33	0.60
45:DK:319:TYR:HB3	45:DK:323:VAL:HG11	1.83	0.60
46:DL:1:MET:N	46:DL:3:GLU:OE1	2.26	0.60
46:EF:114:ASP:OD1	46:EF:115:SER:N	2.34	0.60
45:EG:185:TYR:CZ	45:EG:398:MET:HE2	2.36	0.60
46:EJ:221:THR:HG23	46:EJ:224:ASP:H	1.67	0.60
46:FN:67:ASP:OD1	46:FN:68:LEU:N	2.33	0.60
45:GK:101:ASN:HA	45:GK:144:GLY:H	1.65	0.60
45:HE:251:ASP:H	45:HE:254:GLU:HB2	1.65	0.60
45:II:74:VAL:O	45:II:78:VAL:HG23	2.02	0.60
45:II:268:MET:HG3	45:II:380:ASN:HB2	1.83	0.60
45:KG:271:SER:HA	45:KG:302:MET:HG3	1.82	0.60
46:KH:222:TYR:O	46:KH:226:ASN:ND2	2.24	0.60
45:LC:116:ASP:OD1	45:LC:117:LEU:N	2.33	0.60
45:LK:351:PHE:HB2	46:LN:176:SER:HB3	1.82	0.60
46:MF:156:ARG:NH2	46:MF:197:ASP:OD2	2.25	0.60
45:MG:407:TRP:HZ2	46:MH:258:ILE:HD11	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:MH:73:MET:SD	46:MH:92:PHE:HB3	2.41	0.60
46:MH:211:CYS:SG	46:MH:220:PRO:HB3	2.40	0.60
45:NA:89:PRO:HD2	45:OA:280:LYS:HZ3	1.66	0.60
46:NJ:398:TYR:HB3	46:NJ:403:MET:HE3	1.83	0.60
45:NK:11:GLN:NE2	46:NL:245:GLN:O	2.34	0.60
45:OA:169:PHE:HA	45:OA:202:VAL:HG22	1.84	0.60
46:PH:256:ASN:HD22	46:PH:350:LYS:HE3	1.66	0.60
46:PJ:200:MET:HA	46:PJ:200:MET:HE3	1.82	0.60
45:PK:51:THR:O	45:PK:64:ARG:NH1	2.34	0.60
45:QE:56:THR:HG23	45:QE:58:ALA:H	1.65	0.60
46:RB:54:ALA:HA	46:SB:283:ALA:HB2	1.82	0.60
46:RB:289:LEU:HD13	46:RB:365:VAL:HG23	1.83	0.60
46:RB:374:ILE:HG22	46:RB:378:PHE:HE2	1.65	0.60
45:RG:64:ARG:NH1	45:RG:129:CYS:SG	2.74	0.60
45:SC:339:ARG:NH1	45:SC:339:ARG:O	2.35	0.60
45:SG:392:ASP:HA	45:SG:422:ARG:HH12	1.66	0.60
45:SG:408:TYR:HB3	45:SG:413:MET:HE2	1.83	0.60
46:SH:68:LEU:HD12	46:SH:93:GLY:HA3	1.84	0.60
45:SK:56:THR:HG23	45:SK:58:ALA:H	1.66	0.60
45:SK:429:GLU:HA	45:SK:432:TYR:HD2	1.67	0.60
45:TA:64:ARG:NH1	45:TA:129:CYS:SG	2.74	0.60
45:TA:254:GLU:HG2	46:TB:98:GLY:HA2	1.82	0.60
46:TL:91:VAL:HG21	46:TL:116:VAL:HB	1.82	0.60
45:UC:352:LYS:HZ3	46:UD:179:VAL:H	1.49	0.60
46:UD:284:LEU:HG	46:UD:363:MET:HE2	1.83	0.60
46:UD:316:LEU:HD13	46:UD:352:SER:HB2	1.82	0.60
45:UG:258:ASN:HD22	46:UH:179:VAL:HG22	1.66	0.60
46:UJ:86:ARG:HH21	46:UJ:87:PRO:HG2	1.65	0.60
46:UN:132:GLY:HA2	46:UN:162:ARG:HB3	1.83	0.60
46:VB:117:LEU:HA	46:VB:120:VAL:HG22	1.82	0.60
46:VB:221:THR:HG23	46:VB:224:ASP:H	1.66	0.60
46:VH:114:ASP:OD1	46:VH:115:SER:N	2.34	0.60
46:VN:114:ASP:OD1	46:VN:115:SER:N	2.34	0.60
45:WA:178:SER:HB2	46:WB:347:ASN:HD21	1.66	0.60
46:WB:153:SER:HB2	46:WB:191:GLN:HE21	1.66	0.60
46:WD:143:THR:OG1	49:WD:501:GDP:O1B	2.19	0.60
4:0D:131:GLN:HA	4:0D:134:LYS:HE2	1.83	0.60
7:0G:76:PHE:HE2	9:0N:33:TYR:HB2	1.66	0.60
7:0G:114:LYS:NZ	45:JM:366:GLY:O	2.34	0.60
8:0H:407:LEU:HD21	8:0H:428:LEU:HD23	1.83	0.60
12:0T:164:VAL:HG22	12:0T:168:HIS:HE1	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:0X:4:VAL:HG23	15:0X:5:LYS:HG3	1.84	0.60
20:1K:249:GLU:OE2	46:GB:280:GLN:NE2	2.34	0.60
21:1L:734:VAL:HG21	21:1L:739:LEU:HD21	1.82	0.60
9:1N:43:VAL:HG11	29:2G:52:MET:SD	2.41	0.60
24:1P:181:MET:HE3	24:1P:185:ARG:HH22	1.67	0.60
24:1P:391:ARG:HB3	45:TA:370:LYS:HE2	1.81	0.60
11:1S:161:GLN:HB2	11:1S:164:GLN:OE1	2.01	0.60
16:2B:79:GLN:NE2	16:2B:79:GLN:O	2.34	0.60
14:2V:9:LEU:HB3	14:2V:10:ILE:HD12	1.83	0.60
37:5F:29:LYS:HD2	37:5F:30:PRO:HD2	1.83	0.60
40:6G:148:ASP:OD1	40:6G:149:ALA:N	2.32	0.60
45:AC:322:ASP:OD1	45:AC:373:ARG:NH1	2.34	0.60
45:AI:108:TYR:O	45:AI:112:LYS:NZ	2.34	0.60
45:AI:326:LYS:HG2	46:AL:220:PRO:HD2	1.83	0.60
46:AN:55:THR:HG23	46:BN:283:ALA:HA	1.84	0.60
45:BK:56:THR:OG1	45:CK:282:TYR:O	2.16	0.60
46:DB:77:ARG:NH1	46:DB:85:PHE:O	2.35	0.60
46:DB:222:TYR:O	46:DB:226:ASN:ND2	2.28	0.60
45:EA:284:GLU:HG3	45:EA:286:LEU:HD22	1.84	0.60
46:EL:203:ASP:HB3	46:EL:301:CYS:HA	1.83	0.60
46:EL:222:TYR:O	46:EL:226:ASN:ND2	2.30	0.60
46:FB:42:LEU:HA	46:FB:45:GLU:HG3	1.83	0.60
45:FE:292:THR:HG21	45:FE:331:SER:HB3	1.83	0.60
46:FH:73:MET:HA	46:FH:76:VAL:HG12	1.82	0.60
46:FH:90:PHE:HB3	46:FH:92:PHE:HE1	1.66	0.60
45:FK:55:GLU:HG3	45:FK:57:GLY:H	1.66	0.60
45:FM:188:ILE:HD12	45:FM:425:LEU:HD11	1.81	0.60
46:GB:274:THR:HB	46:GB:282:ARG:HH11	1.66	0.60
45:GK:55:GLU:O	45:HK:285:GLN:NE2	2.34	0.60
45:HM:265:ILE:HG22	45:HM:380:ASN:HD21	1.66	0.60
46:HN:207:LEU:HB3	46:HN:225:LEU:HD22	1.84	0.60
45:IC:260:VAL:HB	46:IF:397:TRP:CZ2	2.36	0.60
45:IE:167:LEU:HD13	45:IE:200:VAL:HB	1.83	0.60
46:IH:167:PHE:HE2	46:IH:233:MET:HG2	1.67	0.60
46:JN:149:THR:HA	46:JN:152:ILE:HD12	1.83	0.60
45:KI:174:SER:HB3	45:KI:177:VAL:O	2.01	0.60
45:LC:210:TYR:OH	46:LD:323:THR:OG1	2.19	0.60
45:LE:317:MET:HE2	45:LE:319:TYR:CE1	2.37	0.60
45:LI:119:LEU:HD11	45:LI:156:ARG:HG2	1.83	0.60
45:LM:244:PHE:HB2	45:LM:356:ASN:HD21	1.65	0.60
45:MK:288:VAL:HA	45:MK:291:ILE:HG12	1.81	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ND:148:GLY:O	46:ND:152:ILE:HD12	2.01	0.60
46:NF:64:ILE:HA	46:NF:89:ASN:HB3	1.83	0.60
45:NM:121:ARG:HD2	45:NM:124:LYS:NZ	2.16	0.60
45:OC:256:GLN:HG2	46:OF:397:TRP:HH2	1.66	0.60
46:OF:179:VAL:HG13	46:OF:180:VAL:HG13	1.83	0.60
46:PN:285:THR:OG1	46:PN:288:GLU:OE1	2.19	0.60
45:QE:188:ILE:HD12	45:QE:425:LEU:HD11	1.82	0.60
45:QK:292:THR:HG21	45:QK:331:SER:HB3	1.83	0.60
45:RC:109:THR:O	45:RC:112:LYS:NZ	2.34	0.60
45:RE:296:PHE:HE1	45:RE:377:MET:HG3	1.65	0.60
46:RJ:178:THR:HB	46:RJ:181:GLU:HG3	1.84	0.60
46:TJ:258:ILE:HB	45:TK:407:TRP:HH2	1.65	0.60
45:TM:64:ARG:NH1	45:TM:129:CYS:SG	2.74	0.60
45:UG:244:PHE:HB2	45:UG:356:ASN:HD21	1.65	0.60
46:UL:102:ALA:O	46:UL:106:TYR:HB2	2.00	0.60
46:UN:8:GLN:NE2	46:UN:136:THR:OG1	2.35	0.60
46:VD:70:PRO:HA	46:VD:73:MET:SD	2.42	0.60
45:VI:336:LYS:HD3	45:VI:351:PHE:HE1	1.66	0.60
46:VJ:405:GLU:OE2	46:VJ:409:THR:OG1	2.18	0.60
46:WL:139:LEU:HD13	46:WL:168:SER:HB3	1.83	0.60
45:CE:244:PHE:HB2	45:CE:356:ASN:HD21	1.67	0.60
6:0F:143:TYR:HB3	6:0F:147:ARG:HH21	1.65	0.60
7:0G:113:ILE:HB	7:0G:118:GLN:NE2	2.16	0.60
13:0U:513:LYS:HB3	13:0U:526:ARG:NH1	2.17	0.60
5:1E:130:PRO:HA	5:1E:133:LYS:HG2	1.83	0.60
27:2C:108:LEU:HD22	27:2C:167:ARG:HH11	1.66	0.60
4:2D:129:GLN:HE21	25:3R:511:ALA:HA	1.67	0.60
25:2R:249:LYS:HG2	45:BG:58:ALA:HB1	1.82	0.60
25:2R:486:VAL:HA	25:2R:499:ILE:HB	1.82	0.60
25:2R:503:ASP:O	25:2R:506:THR:OG1	2.15	0.60
14:2V:33:PRO:HB3	45:ME:304:LYS:HD2	1.84	0.60
16:3B:154:LYS:NZ	16:3B:165:GLU:HA	2.17	0.60
27:3C:297:ASP:O	46:KB:320:ARG:NH2	2.21	0.60
32:3D:133:LEU:HD23	32:3D:139:PHE:HD2	1.66	0.60
25:3R:465:GLU:HG2	46:EL:79:GLY:HA2	1.83	0.60
13:3U:145:ASN:ND2	13:3U:147:ASP:O	2.34	0.60
13:3U:322:ARG:HH12	13:3U:324:ASN:HB2	1.66	0.60
36:5C:27:LYS:HE2	36:5C:30:LYS:HB2	1.84	0.60
37:5F:45:PRO:HA	45:OC:372:MET:HE1	1.82	0.60
37:5G:54:LYS:HD3	46:OJ:227:HIS:CE1	2.36	0.60
35:5S:69:TYR:OH	45:WE:127:ASP:OD2	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:6R:287:ILE:HD12	34:6R:304:LEU:HD13	1.83	0.60
34:7R:534:HIS:ND1	34:7R:578:TYR:OH	2.33	0.60
45:AA:89:PRO:HD2	45:BA:280:LYS:HZ3	1.67	0.60
46:AD:259:PRO:HG2	46:AD:311:LEU:HD21	1.83	0.60
45:AG:31:GLN:HG3	45:AG:32:PRO:HD2	1.84	0.60
46:AJ:135:ILE:HG13	46:AJ:152:ILE:HD11	1.82	0.60
45:BM:122:ILE:HD13	45:BM:157:LEU:HD21	1.84	0.60
46:CJ:86:ARG:NE	46:CJ:86:ARG:HA	2.16	0.60
45:FA:406:HIS:NE2	46:FB:261:PRO:HD3	2.16	0.60
46:FH:8:GLN:HE21	46:FH:14:ASN:HA	1.66	0.60
46:FJ:64:ILE:HD13	46:FJ:119:VAL:HG13	1.83	0.60
45:FK:254:GLU:OE1	45:FK:257:THR:OG1	2.18	0.60
45:FK:326:LYS:HD3	46:FN:208:TYR:CG	2.36	0.60
46:GB:66:MET:HE2	46:GB:116:VAL:HG21	1.84	0.60
45:GC:205:ASP:OD1	45:GC:206:ASN:N	2.35	0.60
46:HF:309:ARG:NH2	46:HF:426:GLN:O	2.33	0.60
45:HM:47:ASP:OD1	45:HM:50:ASN:ND2	2.35	0.60
45:IE:328:VAL:HG11	45:IE:353:VAL:HG21	1.81	0.60
46:JB:24:ILE:HA	46:JB:27:GLU:OE1	2.02	0.60
46:JN:63:ALA:O	46:JN:89:ASN:ND2	2.32	0.60
46:JN:370:ASN:OD1	46:JN:422:TYR:OH	2.18	0.60
46:KH:8:GLN:HE21	46:KH:65:LEU:HD21	1.65	0.60
46:KH:49:VAL:HG11	46:KH:241:ARG:HG2	1.82	0.60
45:KK:64:ARG:NH1	45:KK:129:CYS:SG	2.75	0.60
45:LG:39:ASP:OD1	45:LG:40:LYS:N	2.34	0.60
46:LN:337:ASN:HB3	46:LN:340:TYR:HD2	1.67	0.60
46:MD:67:ASP:OD1	46:MD:68:LEU:N	2.33	0.60
45:ME:292:THR:HG21	45:ME:331:SER:HB3	1.83	0.60
46:MJ:148:GLY:O	46:MJ:152:ILE:HG12	2.01	0.60
46:NB:19:LYS:O	46:NB:22:GLU:HG3	2.01	0.60
46:NB:52:ASN:OD1	46:NB:62:ARG:NH1	2.34	0.60
45:NG:210:TYR:HE1	45:NG:227:LEU:HD21	1.66	0.60
46:NJ:67:ASP:O	46:NJ:92:PHE:HA	2.01	0.60
45:NK:169:PHE:HA	45:NK:202:VAL:HG22	1.84	0.60
47:NK:501:GTP:O1G	46:NL:252:LYS:NZ	2.33	0.60
46:NL:96:GLY:O	46:NL:103:LYS:NZ	2.34	0.60
45:OG:249:ASN:ND2	46:OJ:11:GLN:OE1	2.32	0.60
46:OL:217:LEU:HA	46:OL:276:ARG:HH21	1.67	0.60
46:ON:135:ILE:HG13	46:ON:152:ILE:HD11	1.83	0.60
45:PC:298:PRO:HA	45:PC:301:MET:HE3	1.83	0.60
45:QE:15:GLN:NE2	47:QE:501:GTP:O6	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RB:326:VAL:O	46:RB:330:MET:HG2	2.01	0.60
45:RG:371:VAL:HG12	45:RG:373:ARG:H	1.67	0.60
46:RL:178:THR:HB	46:RL:181:GLU:HG3	1.82	0.60
45:RM:56:THR:HG23	45:RM:58:ALA:H	1.66	0.60
46:SF:256:ASN:OD1	45:SG:181:VAL:HG22	2.01	0.60
45:TA:188:ILE:HD12	45:TA:425:LEU:HD11	1.82	0.60
46:TL:241:ARG:NH1	46:TL:242:PHE:HD2	2.00	0.60
46:TL:345:ILE:HG22	46:TL:348:ASN:HB3	1.83	0.60
45:UA:326:LYS:HE3	46:UB:220:PRO:HD2	1.81	0.60
46:UB:240:LEU:HD21	46:UB:249:ASP:HA	1.82	0.60
46:UD:101:TRP:HB3	46:UD:398:TYR:HE1	1.67	0.60
46:UF:109:GLY:O	46:UF:113:ILE:HG23	2.01	0.60
45:UM:33:ASP:HA	45:UM:85:GLN:HE21	1.67	0.60
45:VA:101:ASN:HA	45:VA:144:GLY:H	1.65	0.60
46:VB:149:THR:HG21	46:VB:191:GLN:HE21	1.65	0.60
45:VE:339:ARG:O	45:VE:342:GLN:NE2	2.34	0.60
45:VE:350:GLY:HA2	46:VH:179:VAL:HG12	1.83	0.60
46:VF:41:ASP:OD1	46:VF:42:LEU:N	2.34	0.60
45:WE:301:MET:HE1	45:WE:307:PRO:HD3	1.83	0.60
46:WJ:2:ARG:HB2	46:WJ:131:GLN:HG2	1.83	0.60
45:WK:50:ASN:O	45:WK:64:ARG:NH2	2.20	0.60
45:WK:387:VAL:HA	45:WK:390:ARG:HG2	1.82	0.60
46:WL:48:ASN:O	46:WL:62:ARG:NH1	2.35	0.60
46:WN:158:GLU:HG3	46:WN:159:TYR:CD1	2.36	0.60
2:0B:46:PHE:HE2	46:JH:77:ARG:HB2	1.65	0.60
6:0F:53:ALA:HB2	45:EE:279:GLU:CD	2.26	0.60
6:0F:108:ARG:HH21	6:0F:182:ALA:HB3	1.66	0.60
16:1B:201:TYR:O	16:1B:202:VAL:HG13	2.01	0.60
4:1D:221:PRO:HD2	4:1D:222:ASN:H	1.66	0.60
27:2C:94:CYS:SG	27:2C:95:ILE:N	2.73	0.60
30:2H:197:LYS:NZ	30:2H:201:ASN:O	2.34	0.60
20:2K:239:MET:HA	20:2K:242:LYS:HZ3	1.67	0.60
5:3E:99:ILE:HA	5:3E:102:LYS:HE2	1.83	0.60
21:3L:150:ARG:HH22	21:3L:182:SER:H	1.50	0.60
13:3U:513:LYS:HE3	13:3U:528:LEU:HD13	1.83	0.60
27:4C:214:VAL:O	27:4C:218:ARG:HB2	2.02	0.60
10:4Q:35:LYS:HG3	10:4Q:37:ILE:HD11	1.83	0.60
37:5F:157:ARG:HH22	46:NH:37:HIS:HA	1.66	0.60
34:6R:497:GLN:HB2	34:6R:502:ARG:HH11	1.67	0.60
45:AM:141:VAL:HG11	45:AM:172:TYR:HD1	1.66	0.60
45:BC:98:ASP:OD2	45:BC:99:ALA:N	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BF:133:PHE:HB2	46:BF:164:MET:HE1	1.83	0.60
46:BH:403:MET:HE3	46:BH:403:MET:HA	1.82	0.60
46:DB:190:HIS:CD2	46:DB:411:ALA:HA	2.37	0.60
46:DJ:63:ALA:O	46:DJ:89:ASN:ND2	2.34	0.60
45:DK:31:GLN:HE22	45:DK:37:PRO:HB3	1.67	0.60
46:DL:344:TRP:HB3	46:DL:430:ALA:HB2	1.81	0.60
46:EF:258:ILE:HG13	45:EG:407:TRP:HE1	1.65	0.60
46:EJ:114:ASP:OD2	46:EJ:115:SER:N	2.35	0.60
46:EL:208:TYR:HE2	46:EL:225:LEU:HD11	1.65	0.60
45:FA:80:THR:O	45:FA:84:ARG:NH2	2.33	0.60
45:FC:206:ASN:OD1	47:FC:501:GTP:N2	2.33	0.60
45:FG:76:ASP:OD2	46:FH:46:ARG:NH2	2.35	0.60
46:FH:6:HIS:O	46:FH:63:ALA:HA	2.01	0.60
45:GG:221:ARG:HH22	46:GH:321:MET:HA	1.66	0.60
46:HB:100:ASN:ND2	46:HB:401:GLU:OE1	2.34	0.60
45:IG:74:VAL:HG23	45:IG:75:ILE:HD12	1.83	0.60
45:II:2:ARG:NH2	45:II:47:ASP:OD1	2.34	0.60
46:IJ:238:CYS:SG	46:IJ:318:ARG:HD3	2.42	0.60
46:IN:320:ARG:H	46:IN:363:MET:HE1	1.66	0.60
45:KA:371:VAL:HG12	45:KA:373:ARG:H	1.67	0.60
45:KI:289:ALA:O	45:KI:293:ASN:ND2	2.34	0.60
45:LA:338:LYS:HZ2	45:LA:339:ARG:N	1.98	0.60
46:LF:31:ASP:OD1	46:LF:35:THR:N	2.29	0.60
46:MB:149:THR:HG21	46:MB:191:GLN:HE21	1.67	0.60
45:MC:140:SER:OG	47:MC:501:GTP:O2B	2.19	0.60
45:ME:241:SER:OG	45:ME:250:VAL:O	2.20	0.60
46:MJ:273:LEU:H	46:MJ:292:GLN:HE22	1.47	0.60
45:NA:250:VAL:HG13	45:NA:254:GLU:HB2	1.82	0.60
45:NC:68:LEU:HD21	45:NC:118:CYS:HB2	1.83	0.60
46:NJ:103:LYS:NZ	46:NJ:401:GLU:OE2	2.33	0.60
45:OC:177:VAL:HG11	46:OD:324:LYS:NZ	2.16	0.60
45:OK:54:SER:HB3	45:OK:64:ARG:HE	1.66	0.60
45:OK:265:ILE:HG22	45:OK:380:ASN:HD21	1.66	0.60
45:PA:141:VAL:HG11	45:PA:172:TYR:HD1	1.66	0.60
45:PE:121:ARG:HA	45:PE:121:ARG:NH1	2.17	0.60
45:PE:346:TRP:CD1	46:PH:391:ARG:HG3	2.36	0.60
45:PI:64:ARG:NH2	45:PI:129:CYS:SG	2.68	0.60
46:QB:327:ASP:HA	46:QB:330:MET:HE2	1.82	0.60
45:QI:141:VAL:HG11	45:QI:172:TYR:HD1	1.65	0.60
46:QJ:5:VAL:HG12	46:QJ:62:ARG:HD3	1.81	0.60
45:QM:296:PHE:HE1	45:QM:377:MET:HG3	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RA:135:PHE:HB2	45:RA:166:LYS:HG2	1.84	0.60
46:RF:268:ILE:HG22	46:RF:368:VAL:HG22	1.82	0.60
46:SD:284:LEU:HB3	46:SD:363:MET:HE2	1.83	0.60
46:SF:2:ARG:HH12	45:SG:71:GLU:HG2	1.66	0.60
46:SH:324:LYS:NZ	45:SI:214:ARG:HB3	2.15	0.60
45:SI:292:THR:HG21	45:SI:331:SER:HB3	1.83	0.60
46:SN:387:ALA:HA	46:SN:390:ARG:HE	1.66	0.60
45:TK:89:PRO:HG2	45:UK:280:LYS:HD3	1.84	0.60
46:UF:324:LYS:HD3	45:UG:222:PRO:HD2	1.83	0.60
45:UK:2:ARG:HH22	46:UL:70:PRO:HD2	1.66	0.60
46:UL:73:MET:HE1	46:UL:92:PHE:CD1	2.36	0.60
46:UN:164:MET:HB2	46:UN:197:ASP:H	1.67	0.60
45:VG:346:TRP:CD1	46:VJ:391:ARG:HG3	2.37	0.60
46:VH:260:PHE:HB2	46:VH:263:LEU:HD13	1.84	0.60
46:VN:140:GLY:O	46:VN:184:ASN:ND2	2.33	0.60
46:VN:267:MET:HE1	46:VN:374:ILE:HD11	1.82	0.60
45:WE:222:PRO:HD2	46:WF:324:LYS:HG3	1.84	0.60
45:DC:280:LYS:HD2	45:DC:283:HIS:CD2	2.36	0.60
9:1N:16:ILE:HG22	46:IJ:48:ASN:HD22	1.66	0.60
16:2B:62:THR:HA	45:LK:84:ARG:NH2	2.17	0.60
30:2H:191:LEU:HD23	46:AD:360:GLY:HA2	1.84	0.60
24:2P:437:ASP:O	24:2P:440:LYS:HG3	2.01	0.60
16:3B:62:THR:HA	45:LG:84:ARG:HH22	1.67	0.60
16:3B:217:LYS:NZ	16:3B:259:PHE:O	2.28	0.60
21:3L:191:ASN:HA	21:3L:194:ILE:HD12	1.82	0.60
25:3R:395:VAL:O	46:DL:77:ARG:NH2	2.34	0.60
34:4R:318:TYR:HE1	46:CF:273:LEU:HD23	1.65	0.60
37:5G:72:ASP:OD2	37:5G:73:ARG:N	2.34	0.60
34:7R:546:ASP:HA	34:7R:549:MET:HE2	1.84	0.60
46:BD:273:LEU:H	46:BD:292:GLN:HE22	1.49	0.60
45:BE:210:TYR:CZ	46:BF:324:LYS:HG2	2.37	0.60
46:BJ:222:TYR:O	46:BJ:226:ASN:ND2	2.24	0.60
46:BL:156:ARG:HE	46:BL:164:MET:HE1	1.66	0.60
46:CL:273:LEU:H	46:CL:292:GLN:NE2	1.97	0.60
46:DB:174:LYS:HB3	46:DB:205:GLU:HG3	1.84	0.60
45:DG:324:VAL:HG11	45:DG:326:LYS:HE2	1.84	0.60
46:DL:324:LYS:HG3	45:DM:222:PRO:HD2	1.83	0.60
45:DM:188:ILE:HD12	45:DM:425:LEU:HD11	1.82	0.60
46:DN:4:ILE:O	46:DN:62:ARG:NH2	2.35	0.60
45:EI:399:TYR:O	45:EI:402:ARG:NH1	2.35	0.60
46:FD:167:PHE:CE1	46:FD:233:MET:HG2	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FF:284:LEU:HG	46:FF:363:MET:HE3	1.83	0.60
45:FG:325:PRO:HB2	46:FJ:208:TYR:OH	2.02	0.60
45:HA:140:SER:OG	47:HA:501:GTP:O2B	2.19	0.60
46:HF:178:THR:HB	46:HF:181:GLU:HG3	1.81	0.60
45:HM:292:THR:HG21	45:HM:331:SER:HB3	1.83	0.60
46:HN:199:CYS:C	46:HN:200:MET:HE2	2.25	0.60
45:IG:362:VAL:HB	45:IG:370:LYS:HB3	1.83	0.60
46:IJ:88:ASP:OD1	46:IJ:89:ASN:N	2.34	0.60
46:IN:226:ASN:HD21	49:IN:501:GDP:HN1	1.48	0.60
46:JJ:226:ASN:HD21	49:JJ:501:GDP:HN1	1.48	0.60
45:KC:96:LYS:HD3	46:KD:1:MET:HE1	1.82	0.60
45:LA:55:GLU:OE2	45:LA:61:HIS:NE2	2.34	0.60
46:LB:178:THR:HB	46:LB:181:GLU:HB3	1.84	0.60
45:LM:174:SER:HB2	45:LM:177:VAL:O	2.01	0.60
46:MH:289:LEU:HD13	46:MH:365:VAL:HG23	1.84	0.60
45:MI:214:ARG:HH12	46:MJ:324:LYS:HZ1	1.49	0.60
45:NA:7:ILE:HB	45:NA:137:VAL:HG12	1.84	0.60
45:NE:101:ASN:HA	45:NE:144:GLY:H	1.67	0.60
46:NF:222:TYR:O	46:NF:226:ASN:ND2	2.35	0.60
46:NF:258:ILE:HD12	46:NF:264:HIS:HB3	1.83	0.60
45:NG:103:PHE:HE1	45:NG:148:GLY:HA2	1.67	0.60
45:NG:192:HIS:HA	45:NG:195:LEU:HD23	1.84	0.60
46:NL:20:PHE:CD1	46:NL:233:MET:HE3	2.36	0.60
46:NL:238:CYS:SG	46:NL:239:CYS:N	2.74	0.60
46:OH:217:LEU:HG	46:OH:276:ARG:HH12	1.66	0.60
46:PB:200:MET:HG2	46:PB:266:PHE:HB2	1.83	0.60
45:PG:326:LYS:NZ	46:PJ:219:THR:HA	2.14	0.60
45:QC:288:VAL:HG21	45:QC:327:ASP:HB3	1.81	0.60
45:QI:175:PRO:HG3	45:QI:390:ARG:CZ	2.31	0.60
45:SA:226:ASN:ND2	45:SA:367:ASP:OD2	2.34	0.60
45:SG:76:ASP:OD1	45:SG:79:ARG:NH2	2.35	0.60
46:SJ:51:TYR:O	46:SJ:62:ARG:NH2	2.30	0.60
46:TH:389:PHE:HZ	46:TH:405:GLU:HG2	1.67	0.60
45:TM:241:SER:O	45:TM:249:ASN:ND2	2.31	0.60
45:UK:288:VAL:HG11	45:UK:327:ASP:HB3	1.83	0.60
45:UM:276:ILE:HD11	45:UM:280:LYS:HG3	1.84	0.60
45:VE:128:ASN:OD1	45:WE:285:GLN:NE2	2.34	0.60
45:WA:100:ALA:HA	46:WB:252:LYS:HD2	1.83	0.60
46:WF:49:VAL:HG11	46:WF:241:ARG:HG2	1.84	0.60
46:WJ:248:SER:HA	46:WJ:252:LYS:HG3	1.84	0.60
1:0A:109:ASP:OD2	46:AB:276:ARG:NH2	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0D:61:ILE:O	4:0D:65:ILE:HG12	2.02	0.60
6:0F:209:LYS:O	6:0F:212:SER:OG	2.18	0.60
11:0S:295:GLU:OE1	11:0S:313:TYR:OH	2.17	0.60
12:0T:135:GLN:NE2	12:0T:140:GLN:O	2.30	0.60
5:1E:80:ASP:O	5:1E:83:GLU:HG3	2.01	0.60
8:1H:252:ARG:HE	45:HE:31:GLN:HA	1.67	0.60
18:1I:142:GLN:HG3	46:KF:320:ARG:HH21	1.67	0.60
21:1L:878:GLN:O	21:1L:884:LYS:NZ	2.35	0.60
14:1V:24:ARG:NH2	45:MI:430:LYS:HD3	2.17	0.60
31:2I:20:LEU:HD12	31:2I:22:LYS:H	1.66	0.60
21:2L:354:LYS:O	21:2L:357:ILE:HG23	2.01	0.60
25:2R:11:PHE:HA	15:2X:81:ARG:CZ	2.31	0.60
11:2S:150:GLN:NE2	45:WG:164:LYS:HG2	2.16	0.60
12:2T:137:SER:OG	12:2T:140:GLN:OE1	2.20	0.60
16:3B:108:LEU:HD22	16:3B:116:LEU:HD13	1.84	0.60
11:3S:271:ASP:OD2	10:6Q:36:ARG:NE	2.32	0.60
13:3U:508:THR:OG1	13:3U:536:VAL:HG23	2.02	0.60
10:5Q:48:GLU:CG	10:5Q:161:ARG:HG2	2.32	0.60
45:AC:141:VAL:HG11	45:AC:172:TYR:HD1	1.67	0.60
46:AL:67:ASP:OD2	46:AL:72:THR:OG1	2.17	0.60
45:BA:11:GLN:NE2	47:BA:501:GTP:O1B	2.35	0.60
45:BE:329:ASN:ND2	46:BH:175:VAL:HA	2.15	0.60
45:BG:286:LEU:O	45:BG:373:ARG:NH1	2.35	0.60
45:CM:214:ARG:HA	45:CM:214:ARG:HH11	1.65	0.60
46:DB:161:ASP:O	46:DB:251:ARG:NH2	2.33	0.60
45:DM:179:THR:HG1	47:DM:501:GTP:HO3'	1.49	0.60
45:EC:40:LYS:HZ2	45:EC:43:GLY:H	1.49	0.60
45:EK:91:GLN:HB3	45:EK:121:ARG:HH21	1.66	0.60
45:EK:384:ILE:HG22	45:EK:388:PHE:HE1	1.66	0.60
45:FM:265:ILE:HG22	45:FM:380:ASN:HD21	1.67	0.60
46:FN:406:MET:O	46:FN:409:THR:OG1	2.16	0.60
46:GD:327:ASP:OD1	46:GD:328:GLU:N	2.34	0.60
45:GE:276:ILE:HD11	45:GE:280:LYS:HG3	1.84	0.60
45:GI:35:GLN:NE2	45:GI:36:MET:O	2.30	0.60
46:GJ:167:PHE:CE2	46:GJ:233:MET:HG2	2.36	0.60
46:GL:293:MET:HE2	46:GL:365:VAL:HG21	1.82	0.60
45:HI:164:LYS:O	45:HI:166:LYS:NZ	2.35	0.60
45:HI:222:PRO:O	46:HJ:322:SER:HB2	2.02	0.60
46:HL:67:ASP:OD1	46:HL:68:LEU:N	2.34	0.60
46:HL:178:THR:HB	46:HL:181:GLU:HG3	1.83	0.60
45:HM:229:ARG:HH12	45:HM:233:GLN:HB2	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:HN:114:ASP:OD1	46:HN:115:SER:N	2.34	0.60
45:IG:292:THR:HG21	45:IG:331:SER:HB3	1.83	0.60
46:IH:5:VAL:HG12	46:IH:62:ARG:HD3	1.84	0.60
46:JB:198:GLU:HG2	46:JB:266:PHE:HE2	1.67	0.60
46:JJ:39:ASP:OD1	46:JJ:40:SER:N	2.34	0.60
46:JJ:114:ASP:OD1	46:JJ:115:SER:N	2.34	0.60
46:JL:73:MET:HA	46:JL:76:VAL:HG12	1.83	0.60
46:KD:101:TRP:CD1	46:KD:145:SER:HG	2.20	0.60
45:KK:396:ASP:OD1	45:KK:422:ARG:NE	2.23	0.60
45:MK:292:THR:HG21	45:MK:331:SER:HB2	1.83	0.60
45:NC:180:ALA:HA	46:ND:350:LYS:HZ2	1.66	0.60
46:OH:83:GLN:O	46:PH:281:TYR:OH	2.20	0.60
45:OK:284:GLU:OE1	45:OK:286:LEU:HD22	2.02	0.60
45:OM:101:ASN:HA	45:OM:144:GLY:H	1.67	0.60
45:PE:209:ILE:HA	45:PE:212:ILE:HG22	1.83	0.60
46:QB:6:HIS:O	46:QB:63:ALA:HA	2.00	0.60
46:QB:86:ARG:NE	46:QB:87:PRO:HD2	2.17	0.60
46:QF:11:GLN:HE22	49:QF:501:GDP:H8	1.49	0.60
45:RE:367:ASP:OD1	45:RE:368:LEU:N	2.34	0.60
45:SG:280:LYS:HA	45:SG:283:HIS:CD2	2.34	0.60
45:SI:102:ASN:HD21	45:SI:411:GLU:HG3	1.66	0.60
46:TB:325:GLU:HA	46:TB:328:GLU:HG2	1.84	0.60
46:TF:31:ASP:OD1	46:TF:35:THR:N	2.34	0.60
46:UD:2:ARG:NH2	45:UE:70:LEU:O	2.34	0.60
45:UK:173:PRO:O	45:UK:390:ARG:NH2	2.33	0.60
46:UL:10:GLY:O	46:UL:14:ASN:ND2	2.34	0.60
45:VE:101:ASN:HA	45:VE:144:GLY:H	1.65	0.60
45:VI:260:VAL:HB	46:VL:397:TRP:HZ2	1.67	0.60
45:VK:141:VAL:HG11	45:VK:172:TYR:HD1	1.66	0.60
45:WE:55:GLU:HG3	45:WE:57:GLY:H	1.67	0.60
3:0C:43:TYR:OH	46:DH:53:GLU:OE2	2.18	0.60
7:0G:107:LEU:HD13	7:0G:118:GLN:HG2	1.83	0.60
20:1K:219:GLN:OE1	45:GA:370:LYS:NZ	2.34	0.60
23:1O:58:LEU:HA	23:1O:61:MET:HE2	1.84	0.60
11:2S:112:GLN:HB2	12:2T:18:PRO:HG3	1.83	0.60
11:2S:178:LEU:HD21	11:2S:193:THR:HG21	1.84	0.60
21:3L:132:GLU:HG3	21:3L:133:SER:H	1.66	0.60
40:6G:174:GLN:HA	40:6G:177:ARG:HG2	1.84	0.60
45:AA:244:PHE:HB2	45:AA:356:ASN:HD21	1.66	0.60
45:AE:69:ASP:OD1	45:AE:70:LEU:N	2.34	0.60
45:AE:406:HIS:HA	45:AE:409:VAL:HG22	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BG:69:ASP:OD1	45:BG:70:LEU:N	2.34	0.60
45:BG:265:ILE:HG22	45:BG:380:ASN:HD21	1.67	0.60
46:CB:324:LYS:HE2	45:CC:222:PRO:CD	2.31	0.60
46:CF:266:PHE:CE1	46:CF:370:ASN:HB2	2.37	0.60
45:CG:251:ASP:OD1	45:CG:252:ILE:N	2.33	0.60
45:CI:175:PRO:HB2	45:CI:176:GLN:OE1	2.02	0.60
46:DB:52:ASN:OD1	46:DB:62:ARG:NH2	2.34	0.60
45:DI:242:LEU:HD11	45:DI:252:ILE:HG12	1.84	0.60
46:DL:112:LEU:HD22	46:DL:147:MET:HE1	1.84	0.60
45:EM:269:LEU:HB3	45:EM:301:MET:HE2	1.84	0.60
46:FB:207:LEU:HB3	46:FB:225:LEU:HD22	1.83	0.60
46:FH:68:LEU:HA	46:FH:93:GLY:H	1.67	0.60
45:GC:69:ASP:OD1	45:GC:70:LEU:N	2.33	0.60
45:HA:322:ASP:OD1	45:HA:373:ARG:NH1	2.34	0.60
46:HB:350:LYS:NZ	46:HB:351:SER:O	2.34	0.60
45:HK:317:MET:HE1	45:HK:332:ILE:HD11	1.84	0.60
46:IH:103:LYS:HA	46:IH:107:THR:HG22	1.83	0.60
45:II:208:ALA:O	45:II:212:ILE:HD12	2.02	0.60
46:IJ:316:LEU:HD13	46:IJ:352:SER:HB2	1.84	0.60
45:IM:241:SER:HA	45:IM:356:ASN:HD21	1.65	0.60
46:JB:109:GLY:HA2	46:JB:147:MET:HE2	1.82	0.60
45:JC:406:HIS:HA	45:JC:409:VAL:HG22	1.84	0.60
45:JG:401:LYS:HZ1	46:JH:344:TRP:CG	2.20	0.60
45:JK:272:TYR:HD2	45:JK:275:ILE:HD11	1.67	0.60
46:JL:222:TYR:O	46:JL:226:ASN:ND2	2.28	0.60
45:KG:167:LEU:HD23	45:KG:200:VAL:HB	1.84	0.60
46:LD:73:MET:HE3	46:LD:92:PHE:HB3	1.84	0.60
46:LF:139:LEU:HD12	46:LF:170:VAL:HG12	1.84	0.60
45:ME:319:TYR:HB3	45:ME:323:VAL:HG11	1.84	0.60
46:MJ:67:ASP:O	46:MJ:92:PHE:HA	2.01	0.60
45:MK:72:PRO:HG2	46:ML:1:MET:HE2	1.83	0.60
46:MN:1:MET:HE1	46:MN:128:ASP:HB3	1.83	0.60
46:MN:67:ASP:O	46:MN:92:PHE:HA	2.01	0.60
45:NC:180:ALA:HA	46:ND:350:LYS:NZ	2.17	0.60
45:NE:325:PRO:HA	45:NE:328:VAL:HG22	1.83	0.60
45:NG:98:ASP:OD1	45:NG:99:ALA:N	2.35	0.60
45:NG:115:VAL:HG11	45:NG:152:LEU:HD23	1.83	0.60
46:OJ:179:VAL:HG13	46:OJ:180:VAL:HG13	1.84	0.60
45:OK:55:GLU:HG3	45:OK:57:GLY:H	1.65	0.60
45:OK:337:THR:O	45:OK:339:ARG:NH1	2.34	0.60
45:PA:56:THR:HG23	45:PA:58:ALA:H	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PJ:133:PHE:HB2	46:PJ:164:MET:HE1	1.83	0.60
46:PN:285:THR:O	46:PN:289:LEU:HG	2.01	0.60
46:RB:200:MET:HG3	46:RB:266:PHE:HB2	1.83	0.60
46:RD:207:LEU:HB3	46:RD:225:LEU:HD22	1.84	0.60
46:RH:280:GLN:HG2	46:RH:281:TYR:HD1	1.67	0.60
46:RH:295:ASP:OD2	46:RH:297:LYS:NZ	2.34	0.60
46:SB:278:SER:HA	46:SB:281:TYR:HD2	1.67	0.60
46:TF:46:ARG:NH2	45:TG:76:ASP:OD2	2.35	0.60
46:TJ:2:ARG:HD2	46:TJ:240:LEU:HD11	1.82	0.60
45:TM:226:ASN:HA	45:TM:229:ARG:HG2	1.83	0.60
46:UD:183:TYR:CE1	46:UD:388:MET:HE3	2.37	0.60
46:WB:49:VAL:HG21	46:WB:241:ARG:HG2	1.83	0.60
46:WB:150:LEU:HB2	46:WB:154:LYS:NZ	2.16	0.60
46:WD:375:GLN:HE21	46:WD:419:VAL:HG13	1.65	0.60
46:WF:1:MET:N	46:WF:48:ASN:HD21	2.00	0.60
46:WH:58:ARG:HH12	46:WH:60:VAL:HB	1.67	0.60
46:WH:73:MET:HA	46:WH:76:VAL:HG12	1.83	0.60
45:WK:326:LYS:HE2	46:WN:220:PRO:HB2	1.83	0.60
46:WN:175:VAL:HG22	46:WN:205:GLU:HB3	1.83	0.60
13:0U:307:THR:O	13:0U:308:GLU:HG3	2.02	0.60
20:1K:238:LYS:HB3	20:1K:242:LYS:NZ	2.17	0.60
21:1L:627:ILE:O	21:1L:631:MET:HG2	2.01	0.60
23:1O:265:PHE:C	45:UA:282:TYR:CG	2.79	0.60
12:1T:7:PHE:CE2	12:1T:41:PHE:HD2	2.19	0.60
13:1U:370:PHE:CD1	13:1U:377:ILE:HD12	2.37	0.60
16:2B:25:ASP:OD1	16:2B:26:LEU:N	2.35	0.60
23:2O:322:ARG:NH1	45:VE:364:PRO:HA	2.17	0.60
12:2T:168:HIS:O	12:2T:172:ILE:HG12	2.02	0.60
13:3U:212:THR:HG22	13:3U:214:THR:H	1.66	0.60
10:4Q:15:TYR:HD1	10:4Q:164:ARG:HE	1.49	0.60
10:4Q:91:VAL:HG12	10:4Q:154:VAL:HG12	1.84	0.60
36:5C:65:THR:HG23	36:5C:68:ASP:H	1.67	0.60
36:5D:94:MET:H	45:KM:430:LYS:HZ1	1.49	0.60
37:5E:157:ARG:HH22	46:ND:37:HIS:HB2	1.66	0.60
37:5F:132:THR:OG1	46:OH:276:ARG:NH1	2.35	0.60
39:6F:84:ILE:O	46:JF:320:ARG:NH1	2.35	0.60
40:6G:231:ASN:HB2	40:6G:233:ARG:HH12	1.66	0.60
40:6G:281:THR:HG22	40:6G:284:LYS:NZ	2.17	0.60
34:6R:85:TRP:CE2	45:AM:372:MET:HE3	2.37	0.60
45:AA:55:GLU:O	45:BA:285:GLN:NE2	2.35	0.60
46:AF:257:LEU:HD11	46:AF:314:SER:HB2	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AN:294:PHE:HD2	46:AN:333:VAL:HG21	1.66	0.60
46:AN:309:ARG:NH2	46:AN:426:GLN:O	2.31	0.60
46:BD:143:THR:OG1	46:BD:147:MET:HE1	2.01	0.60
46:BH:137:HIS:NE2	46:BH:166:THR:OG1	2.33	0.60
45:BM:60:LYS:HZ1	45:CM:283:HIS:HA	1.67	0.60
45:CA:213:CYS:HA	45:CA:217:LEU:HD23	1.84	0.60
45:DA:109:THR:HG22	45:DA:110:ILE:HG23	1.84	0.60
46:DL:346:PRO:O	45:DM:394:LYS:NZ	2.35	0.60
45:EK:328:VAL:O	45:EK:332:ILE:HD12	2.01	0.60
46:FF:166:THR:OG1	46:FF:199:CYS:SG	2.58	0.60
45:GI:326:LYS:NZ	46:GL:208:TYR:HB3	2.17	0.60
46:GL:268:ILE:HG13	46:GL:300:MET:HE3	1.84	0.60
45:HA:292:THR:HG21	45:HA:331:SER:HB3	1.82	0.60
45:IA:69:ASP:OD1	45:IA:70:LEU:N	2.35	0.60
45:JC:401:LYS:HZ2	46:JD:344:TRP:CG	2.20	0.60
46:JN:257:LEU:HD21	46:JN:314:SER:HB3	1.84	0.60
45:KG:222:PRO:CD	46:KH:324:LYS:HE2	2.23	0.60
45:LK:223:THR:HG22	45:LK:224:TYR:H	1.67	0.60
46:LN:31:ASP:OD1	46:LN:35:THR:N	2.33	0.60
45:NA:174:SER:OG	45:NA:206:ASN:OD1	2.19	0.60
45:NA:258:ASN:HD22	45:NA:352:LYS:HE3	1.66	0.60
46:NB:67:ASP:OD2	46:NB:72:THR:OG1	2.20	0.60
45:NE:222:PRO:HG2	46:NF:324:LYS:HB2	1.84	0.60
45:NI:328:VAL:O	45:NI:332:ILE:HG12	2.02	0.60
46:NN:179:VAL:HG13	46:NN:180:VAL:HG13	1.83	0.60
46:OD:362:LYS:C	46:OD:363:MET:HE2	2.26	0.60
45:OE:250:VAL:HG13	45:OE:254:GLU:HB2	1.84	0.60
45:OM:88:HIS:HA	45:PM:280:LYS:HZ1	1.66	0.60
46:PB:135:ILE:HG13	46:PB:152:ILE:HD11	1.84	0.60
45:QG:67:PHE:HB2	45:QG:92:LEU:HD13	1.84	0.60
45:QG:287:SER:OG	45:QG:290:GLU:OE2	2.20	0.60
45:QI:292:THR:HG21	45:QI:331:SER:HB3	1.81	0.60
46:QJ:309:ARG:NH2	46:QJ:426:GLN:O	2.29	0.60
45:QK:133:GLN:HB3	45:QK:252:ILE:HD11	1.83	0.60
46:RB:178:THR:HB	46:RB:181:GLU:HG3	1.83	0.60
45:RG:81:GLY:O	45:RG:84:ARG:NH1	2.35	0.60
45:RG:223:THR:HG23	45:RG:225:THR:H	1.67	0.60
45:RG:270:SER:HB3	45:RG:378:ILE:HG22	1.83	0.60
45:SC:91:GLN:HG2	45:SC:121:ARG:HH21	1.67	0.60
45:SC:176:GLN:NE2	45:SC:207:GLU:OE2	2.35	0.60
46:SH:256:ASN:HD22	46:SH:350:LYS:HD2	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SJ:101:TRP:HB2	46:SJ:184:ASN:HB3	1.84	0.60
46:SN:405:GLU:HA	46:SN:408:PHE:HD2	1.67	0.60
45:TC:326:LYS:HG2	46:TD:220:PRO:HD2	1.83	0.60
45:TI:271:SER:OG	45:TI:301:MET:HG3	2.01	0.60
45:UM:7:ILE:HD13	45:UM:153:LEU:HD21	1.82	0.60
46:UN:12:CYS:O	46:UN:16:ILE:HD12	2.02	0.60
46:VB:5:VAL:HG23	46:VB:62:ARG:HB3	1.84	0.60
46:VF:163:ILE:HG13	46:VF:251:ARG:HG2	1.84	0.60
45:VG:407:TRP:HH2	46:VH:254:ALA:HB1	1.67	0.60
45:WC:326:LYS:NZ	46:WF:220:PRO:O	2.31	0.60
45:WE:195:LEU:O	45:WE:264:ARG:NH2	2.35	0.60
7:0G:5:THR:OG1	7:0G:7:GLN:OE1	2.20	0.59
3:1C:121:LEU:HA	3:1C:124:LYS:HB2	1.84	0.59
20:1K:192:LYS:HA	20:1K:195:GLU:CD	2.27	0.59
9:1N:335:GLN:NE2	9:1N:347:GLN:O	2.32	0.59
23:1O:140:VAL:HA	23:1O:143:MET:HB3	1.83	0.59
9:2N:251:ALA:HB1	9:2N:257:LYS:HB2	1.84	0.59
23:2O:473:GLN:HG3	23:2O:474:LEU:HD12	1.84	0.59
12:2T:64:MET:HA	12:2T:64:MET:HE3	1.84	0.59
16:3B:90:ARG:HH21	16:3B:171:ALA:HB3	1.67	0.59
21:3L:185:PRO:HB3	21:3L:189:LEU:HD23	1.83	0.59
14:3V:66:ASP:HB3	14:3V:69:SER:HB3	1.84	0.59
37:5G:29:LYS:HD2	37:5G:30:PRO:HD2	1.84	0.59
45:AA:322:ASP:OD1	45:AA:373:ARG:NH1	2.35	0.59
46:AB:178:THR:HB	46:AB:181:GLU:HG3	1.84	0.59
45:AG:116:ASP:OD1	45:AG:117:LEU:N	2.35	0.59
46:BF:164:MET:HB2	46:BF:197:ASP:H	1.66	0.59
46:BJ:6:HIS:NE2	46:BJ:8:GLN:OE1	2.34	0.59
45:BK:402:ARG:NH2	45:BK:415:GLU:OE2	2.34	0.59
45:BM:69:ASP:OD1	45:BM:70:LEU:N	2.35	0.59
45:CM:51:THR:HG23	45:CM:52:PHE:HD1	1.66	0.59
45:DE:11:GLN:HB2	45:DE:74:VAL:HG11	1.83	0.59
45:DM:242:LEU:HD11	45:DM:252:ILE:HG12	1.84	0.59
45:EG:33:ASP:HA	45:EG:85:GLN:HE21	1.67	0.59
45:FE:322:ASP:OD1	45:FE:373:ARG:NH1	2.34	0.59
46:FH:226:ASN:HD21	49:FH:501:GDP:HN1	1.48	0.59
46:FN:156:ARG:NH2	46:FN:159:TYR:O	2.30	0.59
46:GF:316:LEU:HD13	46:GF:352:SER:HB2	1.84	0.59
45:HC:296:PHE:HE1	45:HC:377:MET:HG3	1.67	0.59
45:HM:11:GLN:NE2	46:HN:247:ASN:OD1	2.34	0.59
45:IA:298:PRO:HA	45:IA:301:MET:HE1	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:IB:100:ASN:ND2	46:IB:401:GLU:OE1	2.35	0.59
45:IK:319:TYR:HB3	45:IK:323:VAL:HG21	1.84	0.59
46:IN:128:ASP:OD1	46:IN:129:CYS:N	2.35	0.59
46:IN:318:ARG:HD2	46:IN:354:CYS:HB3	1.83	0.59
46:JB:67:ASP:O	46:JB:92:PHE:HA	2.02	0.59
46:JB:212:PHE:HD1	46:JB:213:ARG:HH12	1.50	0.59
45:JC:90:GLU:HG3	45:JC:121:ARG:NH1	2.16	0.59
45:JI:88:HIS:HD2	45:KI:283:HIS:HB2	1.65	0.59
46:KB:207:LEU:HD13	46:KB:225:LEU:HB3	1.82	0.59
45:KC:15:GLN:NE2	47:KC:501:GTP:O6	2.34	0.59
46:KJ:222:TYR:O	46:KJ:226:ASN:ND2	2.35	0.59
45:NA:91:GLN:OE1	45:NA:91:GLN:N	2.35	0.59
45:NK:55:GLU:HG3	45:NK:57:GLY:H	1.67	0.59
45:NM:259:LEU:HD13	45:NM:268:MET:HE2	1.83	0.59
45:OC:337:THR:O	45:OC:339:ARG:NH1	2.34	0.59
45:OE:169:PHE:HA	45:OE:202:VAL:HG22	1.83	0.59
46:OF:236:VAL:HG13	46:OF:237:THR:HG23	1.82	0.59
45:PC:260:VAL:HB	46:PF:397:TRP:CH2	2.36	0.59
46:PH:289:LEU:HD13	46:PH:365:VAL:HG23	1.84	0.59
46:PH:294:PHE:HE2	46:PH:333:VAL:HG11	1.67	0.59
46:PJ:67:ASP:OD1	46:PJ:68:LEU:N	2.35	0.59
46:PL:247:ASN:O	46:PL:252:LYS:NZ	2.32	0.59
46:PL:322:SER:OG	46:PL:325:GLU:OE2	2.20	0.59
46:QB:254:ALA:O	46:QB:258:ILE:HG12	2.01	0.59
46:QF:273:LEU:O	46:QF:282:ARG:NH1	2.34	0.59
46:QJ:350:LYS:NZ	46:QJ:352:SER:OG	2.35	0.59
46:QL:293:MET:HG3	46:QL:294:PHE:HD2	1.67	0.59
46:QN:86:ARG:NH2	46:RN:278:SER:OG	2.34	0.59
45:RI:320:ARG:HD3	45:RI:360:PRO:HG3	1.82	0.59
46:RL:350:LYS:NZ	46:RL:352:SER:OG	2.35	0.59
46:RL:370:ASN:OD1	46:RL:422:TYR:OH	2.20	0.59
46:SF:166:THR:OG1	46:SF:199:CYS:SG	2.55	0.59
46:SF:215:LEU:HD21	46:SF:273:LEU:HD12	1.83	0.59
46:SH:324:LYS:HD2	45:SI:210:TYR:HD2	1.67	0.59
45:SK:396:ASP:HA	45:SK:422:ARG:NH2	2.16	0.59
46:SL:31:ASP:OD1	46:SL:32:PRO:HD2	2.01	0.59
45:SM:377:MET:HE1	45:SM:379:SER:HB3	1.84	0.59
45:TA:256:GLN:HB2	45:TA:260:VAL:HB	1.84	0.59
46:TB:317:PHE:HE2	46:TB:326:VAL:HG13	1.67	0.59
45:TC:116:ASP:OD1	45:TC:117:LEU:N	2.35	0.59
45:TI:55:GLU:O	45:UI:285:GLN:NE2	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TK:101:ASN:HA	45:TK:144:GLY:H	1.67	0.59
46:UB:324:LYS:HZ3	45:UC:221:ARG:NH1	2.00	0.59
46:VF:135:ILE:HG13	46:VF:152:ILE:HD11	1.83	0.59
46:VJ:316:LEU:HD13	46:VJ:352:SER:HB2	1.83	0.59
45:VK:221:ARG:NH1	46:VL:325:GLU:OE1	2.35	0.59
45:VK:226:ASN:HA	45:VK:229:ARG:HD2	1.84	0.59
45:VM:179:THR:HG21	46:VN:246:LEU:HD22	1.83	0.59
46:WF:309:ARG:NH1	46:WF:343:GLU:OE1	2.35	0.59
46:WL:293:MET:HE3	46:WL:367:PHE:HB2	1.84	0.59
6:0F:195:GLN:HG2	6:0F:198:ILE:HD11	1.83	0.59
10:0Q:111:THR:HG23	10:0Q:113:ARG:HH12	1.67	0.59
15:0X:1:MET:N	45:MA:249:ASN:HD22	2.01	0.59
17:1F:33:GLN:O	8:1H:88:ARG:NH2	2.35	0.59
18:1I:38:ILE:HD11	18:1I:69:SER:HB2	1.83	0.59
19:1J:361:ASP:HA	19:1J:364:LYS:HE2	1.83	0.59
21:1L:33:LYS:HE2	21:1L:117:GLU:O	2.02	0.59
9:1N:391:LEU:HD23	9:1N:468:HIS:CD2	2.38	0.59
14:1V:6:ILE:HA	14:1V:9:LEU:HD23	1.83	0.59
14:1V:137:ASN:OD1	46:LL:262:ARG:NH2	2.35	0.59
27:2C:78:PHE:CE2	27:2C:91:PHE:HA	2.37	0.59
27:2C:109:LYS:HD3	27:2C:199:GLU:HG3	1.84	0.59
5:2E:168:TYR:HH	5:2E:189:TRP:HE1	1.48	0.59
30:2H:219:ILE:O	45:MC:84:ARG:NH2	2.35	0.59
20:2K:219:GLN:O	20:2K:223:ASN:ND2	2.34	0.59
22:2M:323:PRO:O	22:2M:338:ARG:NH1	2.35	0.59
23:2O:447:GLU:O	23:2O:451:LYS:HG2	2.01	0.59
10:2Q:180:GLU:HG2	10:2Q:181:PHE:HD2	1.67	0.59
13:2U:487:LEU:HB3	13:2U:517:TRP:CZ3	2.37	0.59
5:3E:182:GLU:HG3	5:3E:186:LYS:NZ	2.17	0.59
10:3Q:65:PRO:HA	10:3Q:153:ARG:HH22	1.67	0.59
13:3U:462:ASP:HB3	13:3U:479:LYS:NZ	2.17	0.59
14:3V:113:ARG:HG2	45:LA:263:PRO:HB2	1.82	0.59
37:5E:46:LEU:HG	37:5E:47:GLU:H	1.67	0.59
46:AF:60:VAL:HG21	46:AF:86:ARG:HG2	1.83	0.59
46:AF:238:CYS:SG	46:AF:318:ARG:NE	2.75	0.59
45:AG:352:LYS:HA	46:AJ:177:ASP:O	2.02	0.59
46:AH:194:GLU:OE2	46:AH:195:ASN:ND2	2.35	0.59
45:BG:242:LEU:HD11	45:BG:252:ILE:HD11	1.84	0.59
45:BM:394:LYS:NZ	46:BN:347:ASN:OD1	2.35	0.59
45:CA:18:ASN:OD1	45:CA:19:ALA:N	2.35	0.59
46:CH:66:MET:HE1	46:CH:147:MET:SD	2.42	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CK:387:VAL:HG12	45:CK:390:ARG:HH12	1.66	0.59
45:CM:317:MET:HE1	45:CM:351:PHE:HD2	1.67	0.59
46:DB:258:ILE:HG13	46:DB:266:PHE:HZ	1.68	0.59
46:DD:421:GLU:HA	46:DD:424:GLN:HG2	1.84	0.59
46:DH:114:ASP:OD1	46:DH:115:SER:N	2.34	0.59
46:DJ:128:ASP:OD1	46:DJ:129:CYS:N	2.34	0.59
46:DJ:139:LEU:HD11	46:DJ:168:SER:HB3	1.83	0.59
46:FF:33:THR:O	46:FF:58:ARG:NH1	2.34	0.59
45:GE:401:LYS:HZ1	46:GF:344:TRP:CD1	2.20	0.59
45:GK:401:LYS:HZ1	46:GL:344:TRP:CD1	2.20	0.59
46:HD:187:LEU:HD11	46:HD:408:PHE:HE1	1.67	0.59
46:HD:209:ASP:OD2	46:HD:213:ARG:NH1	2.35	0.59
45:HK:98:ASP:O	45:HK:105:ARG:NH1	2.35	0.59
46:IB:156:ARG:NH1	46:IB:197:ASP:OD2	2.35	0.59
45:IC:260:VAL:HB	46:IF:397:TRP:HZ2	1.66	0.59
45:KA:276:ILE:HG23	45:KA:280:LYS:HB2	1.85	0.59
46:KF:55:THR:OG1	46:LF:282:ARG:O	2.20	0.59
45:KG:116:ASP:OD1	45:KG:117:LEU:N	2.35	0.59
45:KM:259:LEU:O	45:KM:380:ASN:ND2	2.34	0.59
46:LN:7:ILE:HG22	46:LN:64:ILE:HB	1.83	0.59
46:MB:268:ILE:N	46:MB:299:MET:HE1	2.17	0.59
45:ME:174:SER:HB3	45:ME:177:VAL:O	2.02	0.59
46:ML:172:SER:O	46:ML:176:SER:OG	2.19	0.59
45:NC:132:LEU:O	45:NC:164:LYS:NZ	2.32	0.59
46:NF:326:VAL:O	46:NF:330:MET:HG2	2.01	0.59
45:OA:358:GLN:NE2	45:OA:359:PRO:O	2.35	0.59
46:OF:262:ARG:NH1	46:OF:421:GLU:OE1	2.35	0.59
45:OI:55:GLU:HG3	45:OI:57:GLY:H	1.66	0.59
45:PC:75:ILE:HG13	45:PC:94:SER:HB2	1.84	0.59
45:PG:214:ARG:HG2	45:PG:215:ARG:NH1	2.17	0.59
46:QB:317:PHE:HE1	46:QB:326:VAL:HG13	1.66	0.59
45:QC:119:LEU:HG	45:QC:156:ARG:NE	2.17	0.59
46:QH:16:ILE:HD12	46:QH:229:VAL:HG11	1.83	0.59
46:QL:225:LEU:HD13	46:QL:228:LEU:HD12	1.84	0.59
45:RA:89:PRO:HD3	45:SA:280:LYS:HD2	1.85	0.59
46:RB:254:ALA:O	46:RB:258:ILE:HG12	2.02	0.59
45:SE:296:PHE:HE1	45:SE:377:MET:HG3	1.67	0.59
45:TC:387:VAL:HA	45:TC:390:ARG:HG2	1.84	0.59
45:TG:108:TYR:O	45:TG:112:LYS:NZ	2.34	0.59
46:TH:32:PRO:O	46:TH:83:GLN:NE2	2.35	0.59
45:TI:69:ASP:OD1	45:TI:70:LEU:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TL:178:THR:HB	46:TL:181:GLU:HG3	1.84	0.59
45:VI:251:ASP:OD1	45:VI:252:ILE:N	2.34	0.59
46:VJ:200:MET:HG3	46:VJ:266:PHE:HB2	1.84	0.59
46:VL:302:ALA:HB3	46:VL:377:MET:HE1	1.83	0.59
46:WD:286:VAL:C	46:WD:329:GLN:HE22	2.10	0.59
46:WJ:309:ARG:NH1	46:WJ:343:GLU:OE1	2.34	0.59
45:DC:88:HIS:HB3	45:DC:91:GLN:HG2	1.84	0.59
4:0D:224:ARG:CZ	34:7R:493:GLY:HA3	2.31	0.59
6:0F:128:THR:HG22	6:0F:159:GLY:HA3	1.83	0.59
6:0F:174:GLU:OE2	6:0F:179:GLN:N	2.35	0.59
12:0T:260:ASN:O	12:0T:264:LYS:HB2	2.02	0.59
14:0V:5:SER:HB2	13:3U:374:GLY:HA3	1.83	0.59
21:1L:555:LYS:HE2	46:BF:320:ARG:NH1	2.18	0.59
21:1L:894:ARG:NH1	45:CC:365:GLY:H	2.01	0.59
23:1O:143:MET:HE1	23:3O:466:ILE:HG22	1.84	0.59
10:1Q:65:PRO:HA	10:1Q:153:ARG:HH22	1.67	0.59
5:2E:129:HIS:NE2	5:2E:131:LYS:HB3	2.17	0.59
21:2L:357:ILE:HD12	34:6R:100:GLN:OE1	2.02	0.59
32:3D:150:ASP:OD2	32:3D:152:GLN:NE2	2.34	0.59
31:3I:284:VAL:C	31:3I:285:ARG:HD2	2.27	0.59
37:5H:74:ASP:O	37:5H:78:LEU:HB2	2.03	0.59
34:5R:463:SER:O	46:FJ:276:ARG:NH1	2.35	0.59
39:6F:39:LYS:HA	39:6F:60:LYS:HA	1.83	0.59
46:CD:290:THR:HA	46:CD:293:MET:HG3	1.84	0.59
46:CL:336:LYS:HA	46:CL:336:LYS:HE3	1.83	0.59
45:FA:203:MET:HE1	45:FA:267:PHE:HB3	1.84	0.59
46:GH:291:GLN:NE2	46:GH:295:ASP:OD2	2.35	0.59
45:HC:254:GLU:OE1	46:HF:99:ASN:ND2	2.35	0.59
46:HD:200:MET:HE1	46:HD:266:PHE:CD2	2.37	0.59
46:HL:16:ILE:HD12	46:HL:229:VAL:HG11	1.84	0.59
45:IA:35:GLN:NE2	45:IA:36:MET:O	2.35	0.59
46:IN:65:LEU:HB3	46:IN:73:MET:HE2	1.84	0.59
45:JG:200:VAL:HG13	45:JG:268:MET:HE1	1.83	0.59
46:JJ:5:VAL:HG12	46:JJ:62:ARG:HD3	1.83	0.59
45:KI:326:LYS:HZ3	46:KL:220:PRO:HD2	1.67	0.59
45:KK:88:HIS:CE1	45:KK:90:GLU:HG2	2.37	0.59
46:KL:31:ASP:OD1	46:KL:35:THR:N	2.28	0.59
45:KM:103:PHE:HB2	45:KM:186:ASN:HB3	1.84	0.59
45:LM:226:ASN:ND2	45:LM:367:ASP:OD2	2.35	0.59
46:LN:109:GLY:HA2	46:LN:147:MET:HE2	1.84	0.59
46:MB:273:LEU:H	46:MB:292:GLN:HE22	1.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MI:407:TRP:HZ2	46:MJ:258:ILE:HD11	1.66	0.59
45:MK:288:VAL:HG11	45:MK:327:ASP:HB3	1.84	0.59
45:MK:345:ASP:OD2	45:MK:346:TRP:N	2.36	0.59
46:NF:66:MET:HE1	46:NF:147:MET:SD	2.42	0.59
45:NG:352:LYS:HE2	46:NJ:179:VAL:N	2.17	0.59
46:OH:282:ARG:NH1	46:OH:283:ALA:O	2.35	0.59
46:PD:86:ARG:HB3	46:PD:89:ASN:ND2	2.17	0.59
46:PH:73:MET:HA	46:PH:76:VAL:HG12	1.85	0.59
45:PK:292:THR:HG21	45:PK:331:SER:HB3	1.84	0.59
46:PN:207:LEU:HD22	46:PN:228:LEU:HD11	1.83	0.59
46:QB:1:MET:SD	46:QB:46:ARG:NH2	2.76	0.59
45:QC:15:GLN:NE2	47:QC:501:GTP:O6	2.35	0.59
46:QL:203:ASP:HB3	46:QL:301:CYS:HA	1.83	0.59
46:RJ:134:GLN:NE2	46:RJ:233:MET:SD	2.69	0.59
45:RK:312:TYR:CE1	45:RK:341:ILE:HG13	2.37	0.59
46:RL:20:PHE:CD1	46:RL:233:MET:HE3	2.37	0.59
45:SC:322:ASP:OD1	45:SC:373:ARG:NE	2.35	0.59
46:SF:269:GLY:HA2	46:SF:300:MET:HE1	1.84	0.59
45:SK:53:PHE:O	45:SK:64:ARG:NE	2.33	0.59
46:UD:345:ILE:HA	45:UE:398:MET:HE1	1.84	0.59
45:UE:89:PRO:HD2	45:VC:280:LYS:HE2	1.84	0.59
45:VC:167:LEU:HD13	45:VC:200:VAL:HB	1.83	0.59
45:VE:222:PRO:HG2	46:VF:324:LYS:HE2	1.85	0.59
45:WC:422:ARG:NH1	45:WC:422:ARG:O	2.35	0.59
45:WK:174:SER:HB2	45:WK:177:VAL:O	2.02	0.59
46:WN:190:HIS:ND1	46:WN:191:GLN:OE1	2.30	0.59
7:0G:101:TYR:CZ	46:JN:40:SER:HB3	2.37	0.59
9:0N:224:GLN:HG3	9:0N:231:GLN:HE21	1.68	0.59
13:0U:542:THR:HA	13:0U:587:GLN:HE22	1.67	0.59
24:1P:269:ALA:O	24:1P:273:GLN:HG2	2.02	0.59
12:1T:64:MET:HA	12:1T:64:MET:HE3	1.83	0.59
13:1U:323:ILE:HG12	13:1U:599:ILE:HD11	1.85	0.59
29:2G:79:GLU:HG3	29:2G:83:TRP:HZ3	1.66	0.59
31:2I:25:ASN:ND2	45:FG:116:ASP:OD2	2.34	0.59
20:2K:366:GLU:HB2	20:2K:370:LYS:NZ	2.17	0.59
26:2W:223:LEU:O	26:2W:226:ASP:N	2.36	0.59
26:2W:280:ASP:O	45:LK:221:ARG:NH1	2.36	0.59
15:2X:129:ILE:O	15:2X:133:LYS:HG2	2.02	0.59
23:3O:239:ILE:HG23	46:UN:280:GLN:HG2	1.84	0.59
36:5D:36:ARG:HG2	36:5D:37:ASP:H	1.66	0.59
37:5G:157:ARG:NH1	46:NL:36:TYR:O	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5H:44:ARG:O	45:OK:373:ARG:NH2	2.34	0.59
35:5S:154:SER:HB3	35:5S:157:ILE:HD12	1.83	0.59
45:AC:76:ASP:OD2	46:AD:46:ARG:NH2	2.34	0.59
46:AF:128:ASP:OD1	46:AF:129:CYS:N	2.35	0.59
46:AN:128:ASP:OD1	46:AN:129:CYS:N	2.36	0.59
45:BA:131:GLY:O	45:BA:133:GLN:NE2	2.35	0.59
46:BD:11:GLN:O	46:BD:15:GLN:HG2	2.03	0.59
46:BF:167:PHE:CE1	46:BF:233:MET:HG2	2.38	0.59
45:CG:208:ALA:HA	45:CG:304:LYS:NZ	2.18	0.59
45:CM:212:ILE:HD11	45:CM:300:ASN:HA	1.84	0.59
45:EK:55:GLU:HG3	45:EK:57:GLY:H	1.67	0.59
45:EK:241:SER:OG	45:EK:250:VAL:O	2.18	0.59
45:GI:221:ARG:HA	45:GI:221:ARG:HH11	1.66	0.59
45:HG:210:TYR:CD1	46:HH:324:LYS:HE3	2.37	0.59
46:HJ:237:THR:HG22	46:HJ:250:LEU:HD21	1.84	0.59
46:HL:377:MET:HA	46:HL:380:ARG:NH2	2.17	0.59
45:IM:239:THR:HG23	45:IM:243:ARG:NH1	2.17	0.59
45:JA:55:GLU:HG3	45:JA:57:GLY:H	1.68	0.59
46:JJ:376:GLU:HA	46:JJ:379:LYS:HE2	1.84	0.59
45:JK:420:GLU:OE2	45:NK:308:ARG:NH1	2.34	0.59
46:JN:254:ALA:O	46:JN:258:ILE:HG22	2.02	0.59
45:KC:288:VAL:HA	45:KC:291:ILE:HG12	1.83	0.59
45:KE:35:GLN:NE2	45:LE:282:TYR:OH	2.36	0.59
46:KH:267:MET:HE1	46:KH:305:PRO:HG3	1.83	0.59
46:MJ:6:HIS:O	46:MJ:63:ALA:HA	2.02	0.59
46:MN:1:MET:HG3	46:MN:2:ARG:H	1.67	0.59
46:NB:289:LEU:HD11	46:NB:363:MET:HB3	1.83	0.59
46:NL:324:LYS:HG3	46:NL:325:GLU:N	2.17	0.59
45:OA:187:SER:O	45:OA:191:THR:HG23	2.02	0.59
45:OC:259:LEU:HD23	45:OC:268:MET:HG2	1.84	0.59
45:OK:7:ILE:HD13	45:OK:153:LEU:HD21	1.83	0.59
45:PI:88:HIS:O	45:PI:91:GLN:HG2	2.02	0.59
46:QL:268:ILE:HG13	46:QL:300:MET:HE2	1.84	0.59
46:RB:257:LEU:HD11	46:RB:314:SER:HB2	1.84	0.59
45:RC:101:ASN:HA	45:RC:144:GLY:H	1.67	0.59
46:RD:350:LYS:NZ	46:RD:352:SER:OG	2.29	0.59
46:RJ:46:ARG:HH12	46:RJ:243:PRO:HD3	1.67	0.59
46:RN:66:MET:HE2	46:RN:116:VAL:HG21	1.84	0.59
46:SL:350:LYS:HZ1	45:SM:181:VAL:N	2.00	0.59
46:SN:73:MET:HA	46:SN:76:VAL:HG12	1.83	0.59
45:TM:294:SER:HA	45:TM:297:GLU:OE1	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TN:6:HIS:O	46:TN:63:ALA:HA	2.02	0.59
46:TN:51:TYR:HB3	46:TN:59:TYR:HB3	1.84	0.59
46:UL:178:THR:HG22	46:UL:180:VAL:H	1.68	0.59
45:VA:54:SER:HB3	45:VA:64:ARG:HE	1.65	0.59
46:VN:119:VAL:HG23	46:VN:122:LYS:HE2	1.84	0.59
46:VN:221:THR:HG23	46:VN:224:ASP:H	1.67	0.59
45:WG:90:GLU:OE2	45:WG:121:ARG:NH2	2.28	0.59
46:WH:152:ILE:HG23	46:WH:164:MET:HE2	1.84	0.59
46:WJ:139:LEU:HD11	46:WJ:168:SER:HB3	1.82	0.59
45:WK:152:LEU:O	45:WK:156:ARG:HG2	2.02	0.59
5:0E:92:LEU:HD12	5:0E:96:ARG:HB3	1.83	0.59
7:0G:69:GLU:OE2	7:0G:72:GLN:NE2	2.36	0.59
11:0S:83:ASP:O	12:0T:33:LYS:NZ	2.33	0.59
12:0T:162:ASP:OD1	12:0T:163:VAL:N	2.35	0.59
16:1B:43:ARG:HH21	16:1B:78:GLU:HA	1.66	0.59
17:1F:49:THR:O	17:1F:53:ARG:HG2	2.02	0.59
18:1I:222:GLU:HG2	15:4X:141:PHE:CE1	2.38	0.59
20:1K:249:GLU:HA	46:GB:276:ARG:HH21	1.67	0.59
21:1L:360:ASP:O	34:4R:100:GLN:NE2	2.36	0.59
21:1L:389:GLY:O	21:1L:393:HIS:ND1	2.30	0.59
9:1N:310:ASN:OD1	9:1N:313:ARG:NH1	2.35	0.59
10:1Q:4:ASN:HD21	11:1S:43:TYR:HA	1.67	0.59
23:2O:272:ILE:HA	23:2O:275:LYS:HE2	1.85	0.59
25:2R:439:TYR:OH	25:2R:444:ASP:OD1	2.19	0.59
12:2T:58:ASP:OD1	12:2T:60:LYS:HG2	2.03	0.59
13:2U:224:ARG:HH12	45:WG:40:LYS:HB2	1.66	0.59
13:2U:458:LYS:HE3	13:2U:463:GLN:HB2	1.83	0.59
14:3V:122:LYS:HE2	46:LD:390:ARG:HH12	1.68	0.59
15:3X:35:ASP:OD1	15:3X:36:ALA:N	2.35	0.59
10:4Q:102:ARG:HG2	10:4Q:117:PHE:O	2.03	0.59
39:6F:90:GLU:O	39:6F:97:GLN:NE2	2.36	0.59
34:6R:555:ASN:O	34:6R:575:ARG:NH2	2.36	0.59
45:AE:254:GLU:OE2	46:AH:98:GLY:HA2	2.01	0.59
45:BC:326:LYS:HD3	46:BF:220:PRO:HG2	1.85	0.59
46:BH:226:ASN:HD21	49:BH:501:GDP:HN1	1.48	0.59
45:BI:222:PRO:HD2	46:BJ:324:LYS:HG3	1.83	0.59
46:CB:299:MET:HG3	46:CB:305:PRO:HG3	1.84	0.59
46:CB:324:LYS:HZ1	45:CC:221:ARG:HA	1.67	0.59
45:CC:55:GLU:HG3	45:CC:57:GLY:H	1.68	0.59
46:CD:158:GLU:HG3	46:CD:159:TYR:CD1	2.38	0.59
46:CD:258:ILE:HG22	46:CD:266:PHE:HZ	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CF:260:PHE:HB2	46:CF:263:LEU:HD13	1.84	0.59
46:CL:113:ILE:HD13	46:CL:150:LEU:HD22	1.84	0.59
46:CN:83:GLN:O	46:DN:281:TYR:OH	2.19	0.59
45:DG:188:ILE:HD12	45:DG:425:LEU:HD11	1.85	0.59
46:DH:247:ASN:HD21	45:DI:73:THR:HG21	1.67	0.59
46:DJ:286:VAL:C	46:DJ:329:GLN:HE22	2.09	0.59
45:EM:152:LEU:O	45:EM:156:ARG:HG3	2.02	0.59
45:FA:222:PRO:O	46:FB:322:SER:OG	2.15	0.59
46:FD:64:ILE:HD12	46:FD:119:VAL:HG13	1.83	0.59
45:GE:326:LYS:HZ2	46:GH:208:TYR:HE1	1.49	0.59
46:HL:68:LEU:HD21	46:HL:147:MET:HE3	1.82	0.59
45:IA:260:VAL:HB	46:ID:397:TRP:HZ2	1.68	0.59
46:IB:254:ALA:O	46:IB:258:ILE:HG22	2.01	0.59
45:IC:181:VAL:HG13	45:IC:182:VAL:HG23	1.84	0.59
46:IH:1:MET:HE3	46:IH:2:ARG:H	1.66	0.59
46:IH:67:ASP:OD1	46:IH:73:MET:HE1	2.02	0.59
45:IK:48:ALA:HB1	45:IK:243:ARG:HB3	1.83	0.59
45:IM:174:SER:HB2	45:IM:177:VAL:O	2.02	0.59
46:IN:63:ALA:O	46:IN:89:ASN:ND2	2.31	0.59
45:JA:326:LYS:HE2	46:JD:208:TYR:HD1	1.66	0.59
45:JM:420:GLU:OE2	45:NM:308:ARG:HD3	2.02	0.59
45:KA:208:ALA:O	45:KA:212:ILE:HG12	2.02	0.59
46:KB:3:GLU:HG3	46:KB:62:ARG:NH1	2.18	0.59
46:KD:114:ASP:OD1	46:KD:115:SER:N	2.35	0.59
46:LF:27:GLU:OE2	46:LF:241:ARG:NH1	2.36	0.59
45:LG:292:THR:HG21	45:LG:331:SER:HB2	1.83	0.59
46:LL:66:MET:HE1	46:LL:151:LEU:HD22	1.85	0.59
45:ME:74:VAL:O	45:ME:78:VAL:HG23	2.02	0.59
46:NB:254:ALA:O	46:NB:258:ILE:HG22	2.02	0.59
46:ND:101:TRP:CE3	46:ND:187:LEU:HD13	2.37	0.59
46:NJ:47:ILE:HG22	46:NJ:51:TYR:HB2	1.84	0.59
45:NK:178:SER:OG	45:NK:183:GLU:OE2	2.18	0.59
45:NK:251:ASP:OD1	45:NK:252:ILE:N	2.35	0.59
45:OA:51:THR:HG22	45:OA:52:PHE:HD1	1.67	0.59
45:OA:161:TYR:HB3	45:OA:164:LYS:HE2	1.82	0.59
45:OE:133:GLN:HB2	45:OE:252:ILE:HD11	1.85	0.59
45:OK:417:GLU:HA	45:OK:420:GLU:HG2	1.83	0.59
46:PB:207:LEU:HB3	46:PB:225:LEU:HD22	1.84	0.59
46:PB:334:GLN:HA	46:PB:341:PHE:HE2	1.67	0.59
45:PC:251:ASP:OD1	45:PC:252:ILE:N	2.36	0.59
45:PE:292:THR:HG21	45:PE:331:SER:HB2	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PI:356:ASN:OD1	45:PI:357:TYR:N	2.36	0.59
46:PL:67:ASP:HB3	46:PL:73:MET:HE1	1.85	0.59
45:PM:118:CYS:O	45:PM:122:ILE:HG12	2.02	0.59
45:QE:215:ARG:NH2	45:QE:299:ALA:O	2.35	0.59
46:QF:290:THR:HA	46:QF:293:MET:HG2	1.83	0.59
46:QH:114:ASP:OD1	46:QH:115:SER:N	2.36	0.59
46:QL:221:THR:HG23	46:QL:224:ASP:H	1.68	0.59
46:QL:282:ARG:NH2	46:QL:292:GLN:OE1	2.32	0.59
46:RH:317:PHE:HD1	46:RH:365:VAL:HG22	1.67	0.59
45:RI:296:PHE:HE2	45:RI:377:MET:HG3	1.66	0.59
46:RJ:252:LYS:NZ	47:RK:501:GTP:O1G	2.35	0.59
45:RK:55:GLU:O	45:SK:285:GLN:NE2	2.24	0.59
45:RM:317:MET:O	45:RM:318:MET:HE2	2.02	0.59
46:SD:21:TRP:HA	46:SD:24:ILE:HG22	1.84	0.59
45:SE:367:ASP:OD1	45:SE:368:LEU:N	2.34	0.59
46:SH:316:LEU:HG	46:SH:352:SER:HB3	1.84	0.59
46:SJ:11:GLN:HB3	46:SJ:72:THR:HG21	1.85	0.59
46:TD:86:ARG:NH1	46:UD:278:SER:OG	2.35	0.59
46:TF:113:ILE:HD12	46:TF:154:LYS:HE3	1.83	0.59
45:UE:326:LYS:HZ2	46:UF:220:PRO:HB2	1.67	0.59
45:UE:395:PHE:HZ	45:UE:418:PHE:HB3	1.67	0.59
45:UM:212:ILE:HD11	45:UM:300:ASN:HA	1.85	0.59
45:UM:319:TYR:HB3	45:UM:323:VAL:HG11	1.84	0.59
45:VK:96:LYS:HD2	46:VL:1:MET:HE1	1.84	0.59
45:WC:152:LEU:O	45:WC:156:ARG:HG2	2.03	0.59
46:WD:130:LEU:O	46:WD:162:ARG:NH1	2.36	0.59
46:WF:108:GLU:HG3	46:WF:112:LEU:HD23	1.83	0.59
46:WF:317:PHE:HB2	46:WF:353:ILE:HD13	1.85	0.59
2:0B:206:ARG:HD3	2:0B:207:PRO:HD2	1.83	0.59
10:0Q:101:ARG:NH1	10:0Q:116:PRO:O	2.34	0.59
13:0U:518:GLU:HB3	13:0U:522:GLY:H	1.67	0.59
16:1B:358:TRP:HA	16:1B:361:LYS:HE3	1.85	0.59
5:1E:92:LEU:HD13	5:1E:96:ARG:HB2	1.84	0.59
5:1E:186:LYS:HG3	5:1E:191:VAL:HG23	1.84	0.59
8:1H:271:ARG:HH11	8:1H:274:LEU:HB2	1.67	0.59
22:1M:191:ARG:HD2	22:1M:201:ASN:HB2	1.84	0.59
22:1M:287:VAL:HG12	22:1M:289:PRO:HD3	1.85	0.59
23:1O:173:GLU:O	23:1O:177:LYS:HG2	2.02	0.59
16:2B:129:ALA:O	16:2B:191:SER:OG	2.18	0.59
20:2K:401:LYS:HE3	46:FH:56:GLY:C	2.27	0.59
26:2W:189:ARG:HD2	45:KM:47:ASP:H	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:3C:26:GLN:HG2	27:3C:30:LEU:HD12	1.84	0.59
23:3O:233:GLN:HA	23:3O:236:ILE:HG12	1.84	0.59
10:3Q:41:ASP:OD2	10:3Q:81:LYS:NZ	2.35	0.59
25:3R:510:PHE:HD1	25:3R:514:ILE:HG13	1.66	0.59
12:3T:114:LYS:HA	12:3T:117:ARG:HG2	1.85	0.59
13:3U:83:ASP:OD2	13:3U:97:ARG:NH2	2.35	0.59
34:4R:89:ASP:OD1	45:AE:370:LYS:NZ	2.35	0.59
34:5R:268:GLU:HB3	46:DJ:280:GLN:HG2	1.84	0.59
45:AG:259:LEU:HD11	45:AG:316:SER:HB3	1.85	0.59
46:AH:163:ILE:HD11	46:AH:251:ARG:HG2	1.83	0.59
46:BL:203:ASP:O	46:BL:207:LEU:HD12	2.02	0.59
46:CJ:266:PHE:CE1	46:CJ:370:ASN:HB2	2.38	0.59
46:CL:64:ILE:HA	46:CL:89:ASN:HB3	1.85	0.59
46:CN:16:ILE:HD12	46:CN:229:VAL:HG11	1.85	0.59
45:DK:288:VAL:HA	45:DK:291:ILE:HG12	1.84	0.59
46:EB:86:ARG:HH22	46:FB:282:ARG:HB2	1.68	0.59
46:EJ:52:ASN:OD1	46:EJ:62:ARG:NH2	2.35	0.59
45:EK:250:VAL:HG13	45:EK:254:GLU:HB2	1.85	0.59
46:EN:167:PHE:CE2	46:EN:233:MET:HG2	2.37	0.59
46:FF:222:TYR:O	46:FF:226:ASN:ND2	2.26	0.59
45:HI:222:PRO:C	46:HJ:324:LYS:HZ3	2.11	0.59
46:IF:309:ARG:NH2	46:IF:426:GLN:O	2.29	0.59
46:IH:209:ASP:OD1	46:IH:213:ARG:NH2	2.35	0.59
45:II:226:ASN:ND2	45:II:367:ASP:OD2	2.36	0.59
45:JA:325:PRO:HB2	46:JD:208:TYR:OH	2.03	0.59
46:KL:376:GLU:OE1	46:KL:380:ARG:NH1	2.35	0.59
45:LI:220:GLU:O	45:LI:221:ARG:HD3	2.03	0.59
45:MA:64:ARG:NH1	45:MA:129:CYS:SG	2.75	0.59
46:MD:202:ILE:HD11	46:MD:268:ILE:HD11	1.85	0.59
45:MG:9:VAL:HG12	45:MG:68:LEU:HB2	1.84	0.59
45:MG:76:ASP:OD1	45:MG:79:ARG:NH2	2.34	0.59
46:MN:286:VAL:HG22	46:MN:363:MET:HE1	1.83	0.59
46:NB:148:GLY:O	46:NB:152:ILE:HG12	2.02	0.59
45:NK:48:ALA:HB1	45:NK:243:ARG:HB2	1.85	0.59
45:OC:276:ILE:HG23	45:OC:369:ALA:HB3	1.85	0.59
45:OE:99:ALA:HA	45:OE:105:ARG:HD2	1.83	0.59
46:OF:10:GLY:O	46:OF:14:ASN:ND2	2.36	0.59
45:OK:103:PHE:HB3	45:OK:408:TYR:HE2	1.66	0.59
46:ON:221:THR:HG23	46:ON:224:ASP:H	1.66	0.59
45:PA:101:ASN:HA	45:PA:144:GLY:H	1.66	0.59
46:QF:128:ASP:OD1	46:QF:129:CYS:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QM:104:ALA:HB2	45:QM:413:MET:HE1	1.83	0.59
46:QN:54:ALA:HA	46:RN:283:ALA:HB2	1.83	0.59
45:RA:239:THR:HG23	45:RA:243:ARG:HH12	1.67	0.59
46:RB:52:ASN:OD1	46:RB:62:ARG:NH2	2.36	0.59
46:RB:276:ARG:NH2	46:RB:279:GLN:OE1	2.35	0.59
46:RJ:156:ARG:NH2	46:RJ:195:ASN:O	2.36	0.59
45:SA:188:ILE:HD12	45:SA:425:LEU:HD11	1.83	0.59
46:SB:317:PHE:HB3	46:SB:363:MET:HE1	1.83	0.59
45:TE:77:GLU:HA	45:TE:80:THR:HG22	1.85	0.59
45:TE:141:VAL:HG11	45:TE:172:TYR:HD1	1.67	0.59
46:UJ:258:ILE:HD12	46:UJ:264:HIS:HB3	1.83	0.59
45:VA:174:SER:HB3	45:VA:207:GLU:OE1	2.03	0.59
45:VA:251:ASP:OD1	45:VA:252:ILE:N	2.35	0.59
45:VE:294:SER:O	45:VE:300:ASN:ND2	2.23	0.59
46:VL:86:ARG:HH11	46:VL:86:ARG:HA	1.67	0.59
45:VM:188:ILE:HD12	45:VM:425:LEU:HD11	1.83	0.59
45:WI:401:LYS:HZ3	46:WJ:344:TRP:CG	2.21	0.59
46:WJ:325:GLU:O	46:WJ:328:GLU:HG3	2.01	0.59
46:WN:377:MET:HA	46:WN:380:ARG:HG2	1.85	0.59
45:DC:292:THR:HG21	45:DC:331:SER:HB2	1.85	0.59
2:0B:190:ILE:O	2:0B:193:SER:OG	2.19	0.59
4:0D:95:GLN:NE2	45:EC:364:PRO:HB2	2.18	0.59
6:0F:114:ARG:O	6:0F:118:ILE:HG12	2.02	0.59
10:0Q:96:ASP:OD2	10:0Q:97:LYS:N	2.35	0.59
21:1L:442:GLU:HA	21:1L:445:LEU:HD12	1.83	0.59
22:1M:174:LEU:O	22:1M:189:SER:OG	2.20	0.59
12:1T:146:MET:HA	12:1T:146:MET:HE2	1.84	0.59
4:2D:77:ASN:HB2	46:EJ:362:LYS:HZ3	1.68	0.59
4:2D:167:ILE:HG22	4:2D:170:PRO:HD3	1.83	0.59
21:2L:379:TYR:HB3	21:2L:381:LEU:H	1.67	0.59
10:2Q:147:ASN:OD1	10:2Q:148:TYR:N	2.35	0.59
25:2R:505:TYR:HB2	45:EG:39:ASP:HB3	1.84	0.59
13:2U:319:HIS:NE2	13:2U:340:SER:OG	2.25	0.59
30:3H:177:ASN:OD1	30:3H:178:ASN:N	2.35	0.59
25:3R:447:GLN:NE2	25:3R:466:LYS:HB2	2.17	0.59
36:5B:54:ARG:NH2	45:KC:439:THR:O	2.34	0.59
35:5S:76:ILE:HG22	35:5S:89:TRP:NE1	2.18	0.59
45:AA:68:LEU:HD13	45:AA:93:ILE:HB	1.83	0.59
46:AD:114:ASP:OD1	46:AD:115:SER:N	2.36	0.59
45:AE:259:LEU:HD23	45:AE:268:MET:HE3	1.84	0.59
46:AF:103:LYS:HA	46:AF:107:THR:HG22	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AH:128:ASP:OD1	46:AH:129:CYS:N	2.36	0.59
46:BN:282:ARG:NH2	46:BN:292:GLN:OE1	2.32	0.59
45:CA:331:SER:O	45:CA:335:ILE:HG12	2.03	0.59
45:CG:288:VAL:HG21	45:CG:327:ASP:HB3	1.84	0.59
46:CJ:276:ARG:HA	46:CJ:279:GLN:OE1	2.03	0.59
46:CL:178:THR:HB	46:CL:181:GLU:HG2	1.85	0.59
46:DB:318:ARG:HB3	46:DB:357:PRO:HA	1.85	0.59
45:DM:335:ILE:HA	45:DM:338:LYS:HZ2	1.67	0.59
45:EG:172:TYR:HH	45:EG:191:THR:HG1	1.48	0.59
46:EJ:135:ILE:HG13	46:EJ:152:ILE:HD11	1.84	0.59
46:FB:282:ARG:HE	46:FB:283:ALA:H	1.50	0.59
46:FJ:22:GLU:HG2	46:FJ:81:PHE:HD2	1.66	0.59
46:GF:73:MET:HA	46:GF:76:VAL:HG12	1.83	0.59
45:GG:69:ASP:OD2	45:GG:71:GLU:N	2.34	0.59
46:GH:114:ASP:OD1	46:GH:115:SER:N	2.35	0.59
45:IE:242:LEU:HD11	45:IE:252:ILE:HG13	1.84	0.59
46:IL:238:CYS:SG	46:IL:318:ARG:NH1	2.76	0.59
46:JB:276:ARG:HH21	46:JB:279:GLN:HE22	1.50	0.59
46:JN:153:SER:HB2	46:JN:191:GLN:HE21	1.68	0.59
45:LA:222:PRO:HD2	46:LB:324:LYS:NZ	2.16	0.59
45:LC:289:ALA:O	45:LC:293:ASN:ND2	2.27	0.59
46:LL:267:MET:HE2	46:LL:299:MET:HE2	1.85	0.59
46:NB:156:ARG:NH2	46:NB:195:ASN:OD1	2.25	0.59
46:NN:371:SER:O	46:NN:422:TYR:OH	2.17	0.59
45:OA:261:PRO:HG2	45:OA:313:MET:HE2	1.84	0.59
45:OC:352:LYS:HZ3	46:OF:178:THR:HA	1.66	0.59
45:OK:141:VAL:HG11	45:OK:172:TYR:HD1	1.68	0.59
45:PA:103:PHE:HD1	45:PA:413:MET:HE1	1.68	0.59
45:PA:105:ARG:HH11	46:PB:251:ARG:NH1	2.01	0.59
45:QM:292:THR:HG21	45:QM:331:SER:HB3	1.85	0.59
45:RK:208:ALA:O	45:RK:212:ILE:HG12	2.03	0.59
45:SC:132:LEU:HD12	45:SC:132:LEU:H	1.68	0.59
46:SH:256:ASN:OD1	45:SI:181:VAL:HG22	2.03	0.59
46:TH:148:GLY:O	46:TH:152:ILE:HG12	2.02	0.59
46:TN:226:ASN:HD21	49:TN:501:GDP:HN1	1.49	0.59
46:UL:55:THR:HG23	46:VL:283:ALA:HA	1.83	0.59
46:UL:198:GLU:HG2	46:UL:266:PHE:HE2	1.66	0.59
45:VA:1:MET:SD	46:VD:94:GLN:NE2	2.76	0.59
45:VA:90:GLU:OE2	45:VA:121:ARG:NH2	2.35	0.59
45:VI:2:ARG:NH2	46:VL:70:PRO:HD2	2.16	0.59
46:WB:31:ASP:OD2	46:WB:37:HIS:ND1	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WK:111:GLY:O	45:WK:115:VAL:HG13	2.01	0.59
1:0A:51:LYS:NZ	1:0A:58:TYR:OH	2.34	0.59
4:0D:177:THR:HG21	46:EB:47:ILE:HG22	1.83	0.59
6:0F:188:ILE:HG13	6:0F:189:VAL:N	2.17	0.59
8:0H:414:MET:HE1	8:0H:418:LEU:HD13	1.82	0.59
9:0N:163:ALA:HB3	9:0N:167:ARG:N	2.18	0.59
12:0T:164:VAL:HG22	12:0T:168:HIS:CE1	2.38	0.59
13:0U:333:SER:HB3	13:0U:585:PRO:HD2	1.84	0.59
1:1A:14:GLN:HE22	1:1A:18:SER:HB3	1.67	0.59
20:1K:219:GLN:O	20:1K:223:ASN:ND2	2.36	0.59
21:1L:309:VAL:HA	21:1L:312:VAL:HG12	1.83	0.59
13:1U:583:ILE:HG12	13:1U:590:VAL:HG22	1.84	0.59
31:2I:76:PRO:O	45:GE:338:LYS:HE2	2.03	0.59
21:2L:682:PHE:HA	21:2L:685:ILE:HD12	1.85	0.59
21:2L:887:LYS:HB2	21:2L:925:TYR:HD1	1.67	0.59
23:2O:213:GLN:NE2	23:2O:214:ILE:HG13	2.17	0.59
15:2X:61:GLU:HG3	15:2X:64:ARG:HH12	1.67	0.59
30:3H:188:ASP:OD1	30:3H:189:SER:N	2.29	0.59
23:3O:392:ARG:NH1	23:3O:393:ASP:OD1	2.36	0.59
36:5B:145:ASN:O	36:5B:149:ASN:ND2	2.35	0.59
36:5D:82:ASP:HA	36:5D:85:ARG:HH11	1.68	0.59
34:5R:285:THR:O	34:5R:306:ARG:NH2	2.33	0.59
46:AD:19:LYS:HA	46:AD:22:GLU:OE1	2.02	0.59
46:AD:178:THR:HB	46:AD:181:GLU:HG3	1.84	0.59
45:AI:284:GLU:HB2	45:AI:286:LEU:HD22	1.85	0.59
45:BC:96:LYS:HE2	46:BD:1:MET:HE3	1.83	0.59
45:BC:141:VAL:HG11	45:BC:172:TYR:CD1	2.37	0.59
46:BD:325:GLU:HA	46:BD:328:GLU:CD	2.28	0.59
46:BN:222:TYR:O	46:BN:226:ASN:ND2	2.31	0.59
45:CK:55:GLU:HG3	45:CK:57:GLY:H	1.67	0.59
46:DF:68:LEU:HB3	46:DF:96:GLY:HA2	1.85	0.59
46:DL:375:GLN:HE22	46:DL:423:GLN:HB3	1.67	0.59
45:DM:70:LEU:HD13	45:DM:95:GLY:HA3	1.84	0.59
46:EF:222:TYR:O	46:EF:226:ASN:ND2	2.27	0.59
46:FH:66:MET:HE1	46:FH:147:MET:SD	2.42	0.59
45:GM:76:ASP:OD2	46:GN:46:ARG:NH2	2.35	0.59
46:HD:377:MET:SD	46:HD:380:ARG:NH2	2.76	0.59
45:HI:257:THR:HA	46:HL:397:TRP:CZ3	2.37	0.59
46:HJ:67:ASP:O	46:HJ:92:PHE:HA	2.03	0.59
45:HM:60:LYS:NZ	45:HM:85:GLN:O	2.31	0.59
46:HN:268:ILE:HG22	46:HN:368:VAL:HG22	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ID:330:MET:SD	46:ID:349:ILE:HG21	2.43	0.59
46:IH:301:CYS:HB3	46:IH:377:MET:HE1	1.84	0.59
45:JC:88:HIS:CE1	45:JC:90:GLU:HG2	2.38	0.59
46:JN:161:ASP:OD2	46:JN:162:ARG:NH1	2.35	0.59
46:KL:164:MET:N	46:KL:197:ASP:OD1	2.36	0.59
46:KL:407:GLU:HA	46:KL:410:GLU:HG3	1.84	0.59
46:MB:309:ARG:NH1	46:MB:339:SER:O	2.36	0.59
45:MC:338:LYS:NZ	45:MC:340:THR:OG1	2.36	0.59
46:MD:128:ASP:OD1	46:MD:129:CYS:N	2.36	0.59
45:ME:265:ILE:HG22	45:ME:380:ASN:HD21	1.68	0.59
46:MF:222:TYR:O	46:MF:226:ASN:ND2	2.25	0.59
46:MH:293:MET:HE2	46:MH:365:VAL:HG11	1.85	0.59
45:MM:292:THR:HG21	45:MM:331:SER:HB3	1.85	0.59
46:ND:221:THR:HG23	46:ND:224:ASP:H	1.68	0.59
45:NI:254:GLU:OE2	46:NL:99:ASN:ND2	2.31	0.59
46:NL:309:ARG:N	46:NL:372:THR:OG1	2.32	0.59
46:NL:324:LYS:HG3	46:NL:325:GLU:H	1.68	0.59
45:OC:55:GLU:HG3	45:OC:57:GLY:H	1.67	0.59
46:OH:52:ASN:OD1	46:OH:62:ARG:NH2	2.35	0.59
46:PF:148:GLY:O	46:PF:152:ILE:HG12	2.01	0.59
45:QC:296:PHE:HE1	45:QC:377:MET:HG3	1.67	0.59
46:QF:67:ASP:O	46:QF:92:PHE:HA	2.03	0.59
46:QJ:1:MET:HE1	45:QK:96:LYS:HB3	1.85	0.59
46:RD:280:GLN:OE1	46:RD:280:GLN:N	2.33	0.59
46:SH:86:ARG:HD3	46:SH:87:PRO:HD2	1.83	0.59
46:SH:347:ASN:ND2	45:SI:176:GLN:O	2.35	0.59
46:SL:152:ILE:HA	46:SL:155:VAL:HG12	1.85	0.59
46:TB:55:THR:HG23	46:UB:283:ALA:HB1	1.84	0.59
46:TF:372:THR:HA	46:TF:422:TYR:HE2	1.68	0.59
46:UN:119:VAL:HA	46:UN:122:LYS:HZ3	1.66	0.59
45:VC:413:MET:HA	45:VC:413:MET:HE3	1.84	0.59
45:VI:326:LYS:HG3	46:VL:208:TYR:HE2	1.66	0.59
45:VM:140:SER:OG	47:VM:501:GTP:O2B	2.21	0.59
46:VN:238:CYS:SG	46:VN:318:ARG:NH1	2.76	0.59
45:WM:102:ASN:HB3	45:WM:105:ARG:HG2	1.84	0.59
46:WN:327:ASP:OD1	46:WN:328:GLU:N	2.36	0.59
45:DC:116:ASP:OD1	45:DC:117:LEU:N	2.36	0.59
13:0U:69:TYR:OH	13:0U:114:GLU:O	2.21	0.59
13:0U:183:LYS:NZ	13:0U:184:SER:O	2.36	0.59
1:1A:130:SER:C	1:1A:132:ASP:H	2.10	0.59
21:1L:421:GLN:NE2	21:1L:423:TYR:O	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:1L:858:LEU:HD11	21:1L:908:GLN:HG2	1.84	0.59
23:1O:235:MET:SD	46:TB:55:THR:OG1	2.57	0.59
24:1P:99:ALA:HA	24:1P:102:LYS:HZ3	1.68	0.59
25:1R:104:ALA:HB2	25:1R:187:ILE:HG22	1.85	0.59
14:1V:9:LEU:HD22	13:2U:392:GLN:NE2	2.18	0.59
26:1W:69:ASN:HB3	15:4X:140:PRO:HG3	1.84	0.59
1:2A:108:ARG:HH22	25:2R:34:ARG:HA	1.68	0.59
1:2A:130:SER:C	1:2A:132:ASP:H	2.10	0.59
24:2P:391:ARG:HG2	24:2P:395:GLN:NE2	2.16	0.59
16:3B:202:VAL:HG22	16:3B:204:PRO:HD3	1.85	0.59
25:3R:283:ARG:HE	45:CK:45:GLY:HA2	1.67	0.59
11:3S:212:ILE:HG21	11:3S:254:GLN:HE21	1.67	0.59
10:4Q:62:PRO:HB3	10:4Q:69:LEU:HD11	1.85	0.59
37:5H:39:ASP:O	45:OK:370:LYS:NZ	2.35	0.59
10:5Q:79:ILE:HD12	10:5Q:164:ARG:HB2	1.84	0.59
46:AD:155:VAL:HG12	46:AD:164:MET:HE1	1.85	0.59
46:AD:229:VAL:HG12	46:AD:233:MET:HE2	1.85	0.59
46:AL:151:LEU:HA	46:AL:154:LYS:HZ1	1.67	0.59
45:BA:287:SER:N	45:BA:290:GLU:OE1	2.27	0.59
46:BD:148:GLY:O	46:BD:152:ILE:HG12	2.03	0.59
45:BI:174:SER:HB3	45:BI:207:GLU:HG3	1.83	0.59
46:CH:375:GLN:HG3	46:CH:379:LYS:HZ2	1.68	0.59
45:CM:276:ILE:HD11	45:CM:280:LYS:HG3	1.83	0.59
45:DA:296:PHE:HE2	45:DA:335:ILE:HG13	1.67	0.59
46:DB:328:GLU:HA	46:DB:331:LEU:HD12	1.84	0.59
46:DH:178:THR:HB	46:DH:181:GLU:HG3	1.83	0.59
46:DJ:3:GLU:OE2	46:DJ:127:CYS:HB2	2.03	0.59
46:DJ:67:ASP:O	46:DJ:92:PHE:HA	2.02	0.59
46:ED:121:ARG:NH2	46:FD:336:LYS:HE3	2.17	0.59
45:EG:244:PHE:HB2	45:EG:356:ASN:HD21	1.68	0.59
45:FC:210:TYR:CD1	46:FD:324:LYS:HD3	2.38	0.59
45:FM:206:ASN:OD1	47:FM:501:GTP:N2	2.36	0.59
45:FM:284:GLU:HG3	45:FM:286:LEU:HD22	1.83	0.59
46:GF:268:ILE:HG22	46:GF:368:VAL:HG22	1.83	0.59
47:GI:501:GTP:O1G	46:GJ:252:LYS:NZ	2.36	0.59
45:HG:271:SER:OG	45:HG:301:MET:SD	2.59	0.59
45:HK:80:THR:O	45:HK:84:ARG:NH2	2.35	0.59
45:HK:101:ASN:HA	45:HK:144:GLY:H	1.66	0.59
45:HK:221:ARG:NH1	46:HL:322:SER:OG	2.35	0.59
45:IA:244:PHE:HB3	45:IA:358:GLN:NE2	2.18	0.59
45:IC:70:LEU:HD13	45:IC:95:GLY:HA3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IK:71:GLU:HB2	45:IK:98:ASP:HB2	1.84	0.59
46:JJ:3:GLU:OE2	46:JJ:3:GLU:N	2.26	0.59
45:JM:116:ASP:OD1	45:JM:117:LEU:N	2.36	0.59
45:JM:210:TYR:HE1	46:JN:324:LYS:HB3	1.66	0.59
46:LN:268:ILE:HG13	46:LN:300:MET:HE3	1.85	0.59
45:MC:317:MET:HE2	45:MC:319:TYR:CE1	2.37	0.59
45:ME:210:TYR:HB3	46:MF:324:LYS:HZ3	1.68	0.59
46:MF:392:LYS:HD2	46:MF:395:LEU:HD22	1.84	0.59
46:MN:31:ASP:OD1	46:MN:35:THR:N	2.33	0.59
46:OD:147:MET:HE3	46:OD:147:MET:HA	1.84	0.59
46:OF:178:THR:HG22	46:OF:180:VAL:H	1.67	0.59
46:OL:316:LEU:HD23	46:OL:352:SER:HB2	1.85	0.59
46:PF:290:THR:HA	46:PF:293:MET:HG3	1.83	0.59
46:PL:86:ARG:HB3	46:PL:89:ASN:ND2	2.18	0.59
46:QB:54:ALA:HA	46:RB:283:ALA:HB2	1.85	0.59
45:QC:256:GLN:HG2	45:QC:260:VAL:HB	1.85	0.59
46:QF:386:THR:OG1	46:QF:390:ARG:NH1	2.36	0.59
45:QI:387:VAL:HG12	45:QI:390:ARG:NH2	2.18	0.59
45:QM:141:VAL:HG22	45:QM:187:SER:HA	1.85	0.59
46:RJ:173:PRO:HG2	46:RJ:380:ARG:HE	1.67	0.59
46:RN:178:THR:HB	46:RN:181:GLU:HG3	1.85	0.59
46:SB:10:GLY:O	46:SB:14:ASN:ND2	2.36	0.59
46:SF:230:SER:HA	46:SF:233:MET:HE2	1.85	0.59
45:TA:323:VAL:HB	45:TA:373:ARG:HH12	1.68	0.59
45:TC:427:ALA:HA	45:TC:430:LYS:HG2	1.85	0.59
45:TI:108:TYR:HA	45:TI:112:LYS:HE3	1.85	0.59
46:TL:148:GLY:O	46:TL:152:ILE:HG12	2.03	0.59
46:TN:86:ARG:HE	46:TN:87:PRO:HD2	1.67	0.59
45:UA:256:GLN:HB2	45:UA:260:VAL:HB	1.85	0.59
46:UB:166:THR:HG21	46:UB:192:LEU:HD11	1.85	0.59
45:UE:258:ASN:HD22	46:UF:179:VAL:HG22	1.67	0.59
45:UM:64:ARG:NH1	45:UM:129:CYS:SG	2.76	0.59
45:UM:251:ASP:OD1	45:UM:252:ILE:N	2.35	0.59
46:VD:7:ILE:HG22	46:VD:64:ILE:HB	1.85	0.59
46:VH:238:CYS:SG	46:VH:241:ARG:NH2	2.76	0.59
45:WI:172:TYR:HD1	45:WI:173:PRO:HD2	1.68	0.59
5:0E:38:ASP:O	5:0E:40:ASN:N	2.36	0.59
9:0N:99:ALA:HB1	9:0N:172:SER:HB2	1.85	0.59
16:1B:284:CYS:SG	16:1B:311:ARG:NH2	2.75	0.59
18:1I:186:ASP:OD1	18:1I:187:HIS:N	2.36	0.59
19:1J:152:LYS:HG2	46:IH:227:HIS:ND1	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:1K:108:ILE:HA	20:1K:111:LYS:NZ	2.17	0.59
21:1L:571:ALA:HA	21:1L:579:VAL:HG22	1.83	0.59
22:1M:14:ASP:OD1	22:1M:15:THR:N	2.36	0.59
9:1N:156:HIS:HD2	9:1N:214:THR:HG22	1.68	0.59
23:1O:210:ILE:HG21	45:UC:281:ALA:HB3	1.85	0.59
25:1R:410:TRP:HA	25:1R:442:ASN:HB2	1.85	0.59
14:1V:147:LYS:HG2	14:1V:149:MET:HE1	1.83	0.59
5:2E:33:GLN:NE2	5:2E:151:CYS:SG	2.73	0.59
5:2E:46:ASP:OD1	5:2E:47:GLU:N	2.36	0.59
21:2L:701:ASP:HA	21:2L:704:ARG:HG2	1.84	0.59
24:2P:439:HIS:CE1	45:TK:369:ALA:HB1	2.37	0.59
11:2S:24:GLN:NE2	13:2U:230:LEU:H	1.97	0.59
13:3U:346:VAL:HG12	13:3U:355:LEU:HD12	1.84	0.59
33:4F:71:TYR:CE1	45:II:31:GLN:HA	2.38	0.59
37:5G:213:TYR:HD2	46:LN:392:LYS:HG3	1.68	0.59
10:5Q:94:LEU:N	10:5Q:150:GLU:O	2.21	0.59
45:AA:156:ARG:HH11	45:AA:156:ARG:HA	1.68	0.59
46:BH:114:ASP:OD1	46:BH:115:SER:N	2.36	0.59
45:BK:352:LYS:NZ	46:BN:178:THR:HA	2.17	0.59
46:BN:282:ARG:NE	46:BN:288:GLU:OE2	2.24	0.59
45:CI:244:PHE:HB2	45:CI:356:ASN:HD21	1.68	0.59
45:DM:119:LEU:HD12	45:DM:123:ARG:HH12	1.67	0.59
45:EC:316:SER:HA	45:EC:352:LYS:HB3	1.85	0.59
46:EJ:319:GLY:HA2	46:EJ:357:PRO:HD3	1.84	0.59
45:EM:311:LYS:NZ	45:EM:312:TYR:O	2.36	0.59
45:FA:244:PHE:HB2	45:FA:356:ASN:HD21	1.67	0.59
45:FE:259:LEU:HD21	45:FE:316:SER:HB2	1.85	0.59
45:GA:215:ARG:NH2	45:GA:300:ASN:OD1	2.35	0.59
45:GC:176:GLN:O	46:GD:347:ASN:ND2	2.36	0.59
45:GK:407:TRP:HZ2	46:GL:258:ILE:HD11	1.67	0.59
45:IE:116:ASP:OD1	45:IE:117:LEU:N	2.36	0.59
45:IG:209:ILE:HG13	45:IG:302:MET:HG2	1.85	0.59
46:JH:67:ASP:O	46:JH:92:PHE:HA	2.03	0.59
45:LG:397:LEU:HD23	46:LH:346:PRO:HD3	1.85	0.59
46:LN:210:ILE:O	46:LN:214:THR:OG1	2.18	0.59
45:OA:51:THR:HG22	45:OA:52:PHE:CD1	2.38	0.59
46:OB:58:ARG:HH12	46:OB:84:LEU:HD13	1.67	0.59
45:QA:89:PRO:HD2	45:RA:280:LYS:HE2	1.85	0.59
45:QC:53:PHE:HB3	45:QC:61:HIS:HB3	1.85	0.59
45:QI:172:TYR:CD2	45:QI:203:MET:HE1	2.38	0.59
46:QN:257:LEU:HD11	46:QN:314:SER:HB2	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RG:20:CYS:HA	45:RG:232:ALA:HB1	1.84	0.59
46:RL:262:ARG:HH12	46:RL:418:LEU:HA	1.67	0.59
46:SD:324:LYS:HB2	45:SE:210:TYR:HE2	1.67	0.59
45:SE:55:GLU:HG3	45:SE:57:GLY:H	1.68	0.59
46:SH:99:ASN:HA	46:SH:142:GLY:H	1.67	0.59
45:SI:88:HIS:HB3	45:SI:91:GLN:HG3	1.85	0.59
45:SM:55:GLU:HG3	45:SM:57:GLY:H	1.67	0.59
45:SM:288:VAL:HG11	45:SM:327:ASP:HB3	1.84	0.59
45:TE:241:SER:OG	45:TE:250:VAL:O	2.20	0.59
46:TH:289:LEU:HD22	46:TH:363:MET:HG2	1.85	0.59
46:UB:324:LYS:HE3	45:UC:222:PRO:HD2	1.83	0.59
46:UF:178:THR:HB	46:UF:181:GLU:HG3	1.85	0.59
45:UK:352:LYS:HE3	46:UL:179:VAL:HG13	1.84	0.59
45:VA:98:ASP:O	45:VA:105:ARG:NH1	2.36	0.59
45:VA:319:TYR:CD2	45:VA:375:VAL:HG12	2.38	0.59
45:VA:328:VAL:O	45:VA:332:ILE:HG12	2.03	0.59
46:VB:254:ALA:O	46:VB:258:ILE:HG22	2.02	0.59
45:VK:265:ILE:HG22	45:VK:432:TYR:HE1	1.68	0.59
46:WD:325:GLU:O	46:WD:329:GLN:HB2	2.01	0.59
45:WE:140:SER:OG	47:WE:501:GTP:O2B	2.21	0.59
46:WF:287:PRO:HG3	46:WF:329:GLN:HE22	1.68	0.59
45:WM:226:ASN:ND2	45:WM:367:ASP:OD2	2.36	0.59
2:0B:322:ARG:HG2	2:0B:322:ARG:HH11	1.68	0.58
4:0D:177:THR:OG1	46:EB:44:LEU:O	2.11	0.58
6:0F:75:ARG:HH12	46:ED:357:PRO:HD2	1.68	0.58
8:0H:430:ASN:ND2	8:0H:436:GLN:OE1	2.36	0.58
21:1L:636:ARG:NE	21:1L:706:THR:HA	2.18	0.58
14:1V:186:HIS:CD2	12:3T:89:ILE:HD13	2.38	0.58
4:2D:209:LYS:HA	34:5R:433:GLN:HE21	1.66	0.58
11:2S:115:GLN:O	12:2T:16:ASN:ND2	2.34	0.58
11:2S:256:LEU:HA	11:2S:259:PHE:HD2	1.67	0.58
13:2U:492:LEU:O	13:2U:510:SER:N	2.36	0.58
15:2X:49:ILE:HG12	45:MI:282:TYR:CD2	2.38	0.58
1:3A:112:LEU:HB3	25:3R:39:LYS:HB2	1.84	0.58
32:3D:223:ALA:O	32:3D:227:GLU:HG3	2.03	0.58
13:3U:569:TYR:OH	13:3U:607:GLU:OE2	2.17	0.58
37:5F:89:LYS:HB2	37:5F:92:GLN:OE1	2.02	0.58
37:5H:124:TYR:O	45:OM:372:MET:HE3	2.03	0.58
10:6Q:179:PRO:HA	10:6Q:182:LYS:HG2	1.85	0.58
46:AF:173:PRO:HD3	46:AF:380:ARG:HH21	1.67	0.58
46:AH:148:GLY:O	46:AH:152:ILE:HG12	2.01	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AL:55:THR:HG23	46:BL:283:ALA:HA	1.85	0.58
45:AM:389:SER:O	45:AM:393:HIS:ND1	2.33	0.58
46:AN:257:LEU:HD11	46:AN:314:SER:HB3	1.84	0.58
45:BE:176:GLN:NE2	45:BE:177:VAL:HG23	2.18	0.58
46:BJ:42:LEU:HA	46:BJ:45:GLU:HG2	1.85	0.58
45:BK:244:PHE:HB2	45:BK:356:ASN:HD21	1.68	0.58
45:CC:205:ASP:OD2	45:CC:303:ALA:HA	2.03	0.58
45:CC:251:ASP:OD1	45:CC:252:ILE:N	2.36	0.58
45:CI:135:PHE:HE2	45:CI:157:LEU:HD12	1.67	0.58
45:DM:123:ARG:NH1	45:DM:160:ASP:OD2	2.36	0.58
45:EC:225:THR:HB	45:EC:229:ARG:NH1	2.18	0.58
45:EE:27:GLU:OE2	45:EE:361:THR:OG1	2.19	0.58
46:EH:8:GLN:NE2	46:EH:14:ASN:OD1	2.35	0.58
45:EI:90:GLU:OE1	45:FG:280:LYS:NZ	2.36	0.58
45:GE:325:PRO:HA	45:GE:328:VAL:HG12	1.84	0.58
45:GE:326:LYS:HD2	46:GH:208:TYR:HE1	1.68	0.58
45:GG:11:GLN:HG3	45:GG:74:VAL:HG11	1.85	0.58
46:GH:148:GLY:O	46:GH:152:ILE:HG12	2.03	0.58
45:GI:60:LYS:NZ	45:GI:85:GLN:O	2.35	0.58
46:HF:67:ASP:O	46:HF:92:PHE:HA	2.03	0.58
45:JA:426:ALA:O	45:JA:429:GLU:HG3	2.02	0.58
46:JD:248:SER:HA	46:JD:252:LYS:HD3	1.85	0.58
45:JK:185:TYR:CZ	45:JK:398:MET:HE2	2.37	0.58
46:JL:299:MET:HE3	46:JL:299:MET:HA	1.85	0.58
46:KB:10:GLY:O	46:KB:14:ASN:ND2	2.36	0.58
46:LH:101:TRP:NE1	46:LH:188:SER:OG	2.35	0.58
46:LN:152:ILE:HG23	46:LN:164:MET:HE3	1.85	0.58
46:LN:177:ASP:OD2	49:LN:501:GDP:O3'	2.20	0.58
46:LN:316:LEU:HD13	46:LN:352:SER:HB2	1.85	0.58
46:MF:387:ALA:HA	46:MF:390:ARG:HH12	1.68	0.58
46:ML:309:ARG:NH2	46:ML:426:GLN:O	2.33	0.58
45:NA:256:GLN:HG2	46:ND:397:TRP:CH2	2.34	0.58
46:NB:3:GLU:OE2	46:NB:129:CYS:N	2.28	0.58
46:NB:156:ARG:HG2	46:NB:164:MET:HE3	1.84	0.58
45:NI:180:ALA:HA	46:NJ:350:LYS:HZ3	1.68	0.58
46:NJ:304:ASP:HB3	46:NJ:307:HIS:CE1	2.37	0.58
46:OF:135:ILE:HG13	46:OF:152:ILE:HD11	1.84	0.58
45:OM:420:GLU:HA	45:OM:423:GLU:CD	2.27	0.58
45:PE:100:ALA:HA	46:PF:252:LYS:HG2	1.85	0.58
46:PJ:266:PHE:CE1	46:PJ:370:ASN:HB2	2.38	0.58
46:PJ:284:LEU:HG	46:PJ:363:MET:HE2	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PK:348:PRO:HD3	46:PN:388:MET:HE1	1.85	0.58
46:PN:362:LYS:O	46:PN:363:MET:HE2	2.03	0.58
46:QF:19:LYS:O	46:QF:22:GLU:HG3	2.03	0.58
46:RJ:262:ARG:HG3	46:RJ:263:LEU:HD12	1.83	0.58
45:SI:75:ILE:HD11	45:SI:92:LEU:HB3	1.85	0.58
45:SK:206:ASN:OD1	47:SK:501:GTP:N2	2.36	0.58
46:SL:116:VAL:HA	46:SL:119:VAL:HG12	1.84	0.58
46:VB:73:MET:O	46:VB:77:ARG:HG2	2.02	0.58
46:VF:301:CYS:HB3	46:VF:377:MET:HE1	1.83	0.58
45:VK:60:LYS:NZ	45:VK:61:HIS:O	2.36	0.58
46:VN:401:GLU:HB2	46:VN:403:MET:HE1	1.84	0.58
45:WK:192:HIS:ND1	45:WK:424:ASP:OD1	2.36	0.58
4:0D:37:GLN:HB2	4:0D:58:TYR:HE2	1.69	0.58
5:0E:50:ILE:HG13	5:0E:53:LYS:HE2	1.86	0.58
12:0T:184:GLY:HA2	12:0T:196:VAL:O	2.02	0.58
12:0T:236:THR:HG23	12:0T:239:SER:H	1.67	0.58
8:1H:231:MET:SD	8:1H:236:LYS:HD3	2.43	0.58
19:1J:47:LYS:NZ	19:1J:67:ASP:OD2	2.35	0.58
21:1L:155:LYS:NZ	21:1L:159:GLN:HB2	2.18	0.58
22:1M:26:THR:OG1	22:1M:35:GLU:HB3	2.03	0.58
9:1N:326:LEU:HD13	9:1N:448:SER:HB2	1.84	0.58
23:1O:190:LYS:O	23:1O:193:GLU:HG3	2.03	0.58
13:1U:307:THR:HG22	13:1U:308:GLU:HG3	1.85	0.58
5:2E:106:LYS:HD3	5:2E:191:VAL:HG12	1.86	0.58
13:2U:333:SER:HB3	13:2U:585:PRO:HD2	1.85	0.58
14:2V:94:GLY:HA2	46:LF:262:ARG:HG2	1.84	0.58
27:3C:13:ASP:O	27:3C:17:THR:HG23	2.02	0.58
5:3E:13:ARG:HH21	5:3E:89:ARG:HD2	1.68	0.58
13:3U:150:ASN:ND2	13:3U:196:TYR:O	2.35	0.58
35:4S:83:ALA:HA	46:WD:108:GLU:HG3	1.84	0.58
37:5F:44:ARG:CZ	45:OC:285:GLN:HG2	2.33	0.58
37:5H:17:ASN:HB2	37:5H:21:LEU:HD12	1.85	0.58
34:5R:97:CYS:HB3	34:5R:180:ILE:HD13	1.84	0.58
34:6R:474:MET:HE1	34:6R:476:HIS:HB3	1.85	0.58
46:AH:350:LYS:NZ	46:AH:352:SER:OG	2.35	0.58
46:AL:114:ASP:OD1	46:AL:115:SER:N	2.36	0.58
46:AN:67:ASP:O	46:AN:92:PHE:HA	2.03	0.58
45:BA:298:PRO:HA	45:BA:301:MET:HE1	1.84	0.58
46:BL:247:ASN:HD22	46:BL:247:ASN:C	2.10	0.58
46:CB:179:VAL:HG13	46:CB:180:VAL:HG13	1.83	0.58
46:CF:133:PHE:HB2	46:CF:164:MET:HE1	1.83	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CJ:143:THR:OG1	49:CJ:501:GDP:O1B	2.21	0.58
46:CL:77:ARG:HH12	46:CL:83:GLN:HA	1.68	0.58
46:DJ:222:TYR:O	46:DJ:226:ASN:ND2	2.29	0.58
45:DK:174:SER:HB3	45:DK:177:VAL:O	2.01	0.58
46:EH:322:SER:OG	46:EH:325:GLU:OE1	2.21	0.58
46:FD:46:ARG:NH1	46:FD:240:LEU:O	2.34	0.58
46:FD:60:VAL:HG11	46:FD:86:ARG:NH2	2.18	0.58
45:FG:226:ASN:ND2	45:FG:367:ASP:OD2	2.37	0.58
45:FK:140:SER:OG	47:FK:501:GTP:O2B	2.21	0.58
45:GA:326:LYS:HD3	46:GD:208:TYR:HD1	1.67	0.58
46:GD:148:GLY:O	46:GD:152:ILE:HG12	2.03	0.58
45:GG:226:ASN:ND2	45:GG:367:ASP:OD2	2.36	0.58
45:GI:101:ASN:HA	45:GI:144:GLY:H	1.69	0.58
45:GK:328:VAL:O	45:GK:332:ILE:HG12	2.03	0.58
46:HN:285:THR:HB	46:HN:287:PRO:HD2	1.84	0.58
46:HN:421:GLU:OE1	46:HN:424:GLN:NE2	2.35	0.58
46:IL:22:GLU:HG2	46:IL:81:PHE:CD1	2.38	0.58
46:JJ:19:LYS:HG3	46:JJ:226:ASN:HB3	1.85	0.58
46:JN:226:ASN:HA	46:JN:229:VAL:HG12	1.84	0.58
45:KA:47:ASP:HB2	45:KA:49:PHE:CE1	2.38	0.58
46:KB:207:LEU:HB3	46:KB:225:LEU:HD22	1.83	0.58
45:KE:174:SER:HB3	45:KE:177:VAL:O	2.03	0.58
46:LB:334:GLN:HE22	46:LB:348:ASN:H	1.50	0.58
46:LJ:221:THR:HG23	46:LJ:224:ASP:H	1.67	0.58
46:MD:73:MET:SD	46:MD:92:PHE:HB3	2.42	0.58
45:ME:172:TYR:HH	45:ME:191:THR:HG1	1.48	0.58
46:MJ:302:ALA:HB3	46:MJ:377:MET:HE1	1.85	0.58
46:ND:404:ASP:OD2	46:ND:406:MET:HG3	2.03	0.58
45:NK:27:GLU:HG2	45:NK:361:THR:HG21	1.84	0.58
46:NL:371:SER:O	46:NL:422:TYR:OH	2.21	0.58
46:OD:294:PHE:HE2	46:OD:333:VAL:HG11	1.66	0.58
45:PG:88:HIS:O	45:PG:91:GLN:HG2	2.03	0.58
46:QB:99:ASN:HA	46:QB:142:GLY:H	1.67	0.58
46:QB:149:THR:HA	46:QB:152:ILE:HD12	1.83	0.58
45:QK:136:LEU:HD13	45:QK:167:LEU:HB2	1.84	0.58
46:QL:99:ASN:HA	46:QL:142:GLY:H	1.67	0.58
46:RB:316:LEU:HD13	46:RB:352:SER:HB2	1.86	0.58
46:RL:222:TYR:O	46:RL:226:ASN:ND2	2.34	0.58
45:RM:328:VAL:HG11	45:RM:353:VAL:HG21	1.85	0.58
46:SD:382:ALA:HB2	46:SD:415:MET:HE1	1.84	0.58
46:SJ:8:GLN:NE2	46:SJ:13:GLY:O	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SJ:200:MET:HE1	46:SJ:268:ILE:N	2.18	0.58
45:TC:317:MET:HE1	45:TC:319:TYR:CZ	2.38	0.58
45:TG:33:ASP:HA	45:TG:85:GLN:HE21	1.67	0.58
46:TL:97:ALA:HB3	46:TL:143:THR:HB	1.83	0.58
45:UA:244:PHE:HB2	45:UA:356:ASN:HD21	1.68	0.58
46:UB:198:GLU:HG2	46:UB:266:PHE:HE2	1.68	0.58
45:UC:107:HIS:HA	45:UC:152:LEU:HD11	1.84	0.58
46:UL:222:TYR:O	46:UL:226:ASN:ND2	2.25	0.58
46:UN:113:ILE:HD13	46:UN:150:LEU:HD22	1.85	0.58
45:VC:2:ARG:HA	45:VC:133:GLN:HE22	1.67	0.58
46:WD:371:SER:O	46:WD:422:TYR:OH	2.20	0.58
45:WE:407:TRP:HZ2	46:WF:258:ILE:HD11	1.68	0.58
46:WL:228:LEU:HB3	46:WL:300:MET:HE1	1.85	0.58
6:0F:121:GLN:O	6:0F:125:GLN:NE2	2.36	0.58
19:1J:297:THR:OG1	45:IK:218:ASP:O	2.17	0.58
21:1L:84:SER:C	21:1L:88:LYS:HZ2	2.11	0.58
21:1L:781:MET:HA	46:BD:320:ARG:HH12	1.67	0.58
10:1Q:174:GLU:HA	10:1Q:177:LEU:HB3	1.86	0.58
28:2F:79:CYS:HA	46:HF:332:ASN:HD21	1.68	0.58
23:2O:171:LYS:HA	23:2O:174:GLU:HG2	1.86	0.58
23:2O:207:HIS:CD2	40:6G:83:GLU:HB2	2.38	0.58
23:2O:365:ILE:HG23	45:VC:372:MET:HE3	1.84	0.58
31:3I:251:TYR:HA	45:FI:96:LYS:HE3	1.85	0.58
15:3X:10:ARG:NH2	15:3X:28:GLU:OE1	2.37	0.58
36:5A:43:CYS:SG	46:KB:391:ARG:NE	2.75	0.58
36:5C:82:ASP:OD1	36:5C:85:ARG:NH2	2.36	0.58
34:7R:581:THR:OG1	34:7R:584:GLU:OE1	2.20	0.58
45:AC:271:SER:HA	45:AC:302:MET:HG2	1.84	0.58
46:AN:387:ALA:HA	46:AN:390:ARG:NH1	2.18	0.58
45:CA:172:TYR:HH	45:CA:191:THR:HG1	1.51	0.58
45:CA:188:ILE:HD12	45:CA:425:LEU:HD11	1.85	0.58
45:CI:53:PHE:O	45:CI:64:ARG:NH2	2.36	0.58
46:CN:257:LEU:HD11	46:CN:314:SER:HB2	1.86	0.58
45:DA:76:ASP:OD1	45:DA:79:ARG:NH2	2.36	0.58
45:DA:89:PRO:HG2	45:EA:280:LYS:HB3	1.86	0.58
45:DA:101:ASN:HA	45:DA:144:GLY:H	1.68	0.58
46:DB:16:ILE:HD12	46:DB:229:VAL:HG21	1.85	0.58
46:DL:166:THR:HG21	46:DL:192:LEU:HD11	1.84	0.58
46:EJ:394:PHE:HA	46:EJ:397:TRP:CZ3	2.37	0.58
46:EL:221:THR:HG23	46:EL:224:ASP:H	1.68	0.58
46:FL:99:ASN:HA	46:FL:142:GLY:H	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GA:11:GLN:NE2	46:GB:247:ASN:OD1	2.37	0.58
46:GB:320:ARG:O	46:GB:321:MET:HE2	2.02	0.58
46:GD:222:TYR:O	46:GD:226:ASN:ND2	2.24	0.58
45:GG:11:GLN:NE2	46:GH:247:ASN:OD1	2.35	0.58
46:HB:273:LEU:H	46:HB:292:GLN:HE22	1.50	0.58
46:HD:262:ARG:NH1	46:HD:421:GLU:OE1	2.36	0.58
45:HE:88:HIS:CE1	45:HE:90:GLU:HG3	2.39	0.58
45:HE:180:ALA:HA	46:HF:350:LYS:NZ	2.17	0.58
46:HL:222:TYR:O	46:HL:226:ASN:ND2	2.21	0.58
46:ID:372:THR:HA	46:ID:422:TYR:HE2	1.67	0.58
45:JC:345:ASP:OD1	45:JC:346:TRP:N	2.35	0.58
46:JJ:31:ASP:OD1	46:JJ:35:THR:N	2.30	0.58
45:JM:107:HIS:HA	45:JM:152:LEU:HD11	1.84	0.58
46:KJ:167:PHE:CZ	46:KJ:233:MET:HG3	2.38	0.58
45:KK:195:LEU:HD21	45:KK:264:ARG:HH12	1.68	0.58
46:LF:7:ILE:HG22	46:LF:64:ILE:HB	1.84	0.58
46:LH:52:ASN:OD1	46:LH:62:ARG:NH2	2.36	0.58
46:LH:350:LYS:HD3	46:LH:351:SER:N	2.17	0.58
46:LJ:86:ARG:HD2	46:LJ:88:ASP:HB2	1.85	0.58
46:LL:7:ILE:HG22	46:LL:64:ILE:HB	1.84	0.58
45:MI:116:ASP:OD1	45:MI:117:LEU:N	2.36	0.58
46:NJ:36:TYR:CE1	46:NJ:44:LEU:HD21	2.38	0.58
45:NM:221:ARG:NE	46:NN:325:GLU:OE1	2.34	0.58
46:NN:292:GLN:NE2	46:NN:298:ASN:OD1	2.35	0.58
46:OB:229:VAL:O	46:OB:233:MET:HG2	2.04	0.58
46:OB:240:LEU:HD11	46:OB:249:ASP:HA	1.84	0.58
46:OD:86:ARG:HH22	46:PD:282:ARG:HA	1.67	0.58
45:OI:167:LEU:HD13	45:OI:200:VAL:HB	1.84	0.58
46:OJ:86:ARG:HG2	46:OJ:89:ASN:ND2	2.18	0.58
45:OM:54:SER:HB3	45:OM:64:ARG:HH21	1.67	0.58
46:PB:100:ASN:ND2	46:PB:401:GLU:OE1	2.36	0.58
45:PC:244:PHE:HB2	45:PC:356:ASN:HD21	1.68	0.58
45:PE:254:GLU:HG3	46:PH:98:GLY:HA2	1.86	0.58
46:PF:67:ASP:HB3	46:PF:73:MET:HE1	1.85	0.58
46:PN:1:MET:H3	46:PN:48:ASN:HD21	1.50	0.58
46:QF:3:GLU:HG2	46:QF:62:ARG:HH12	1.68	0.58
46:QF:164:MET:HB3	46:QF:197:ASP:H	1.67	0.58
46:QL:207:LEU:HB3	46:QL:225:LEU:CD1	2.34	0.58
46:RB:183:TYR:O	46:RB:187:LEU:HG	2.03	0.58
46:RF:138:SER:HA	46:RF:169:VAL:HB	1.86	0.58
46:RH:131:GLN:HE22	46:RH:249:ASP:HB2	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RK:155:GLU:OE2	45:RK:193:SER:OG	2.19	0.58
46:RL:183:TYR:CD1	46:RL:388:MET:HE3	2.37	0.58
46:SB:89:ASN:ND2	46:SB:123:GLU:OE1	2.36	0.58
46:SF:313:ALA:HB1	46:SF:367:PHE:HE1	1.67	0.58
46:SJ:316:LEU:HD13	46:SJ:352:SER:HB2	1.85	0.58
45:SK:78:VAL:HA	45:SK:84:ARG:NH2	2.18	0.58
45:SK:244:PHE:HB2	45:SK:356:ASN:HD21	1.67	0.58
46:SN:222:TYR:O	46:SN:226:ASN:ND2	2.27	0.58
45:TE:69:ASP:OD1	45:TE:70:LEU:N	2.35	0.58
46:TF:8:GLN:HE22	46:TF:17:GLY:HA3	1.68	0.58
46:TJ:215:LEU:HD11	46:TJ:273:LEU:HD12	1.86	0.58
46:TJ:253:LEU:HA	46:TJ:350:LYS:HZ1	1.68	0.58
46:TJ:405:GLU:HA	46:TJ:408:PHE:HD2	1.68	0.58
46:UF:247:ASN:ND2	45:UG:71:GLU:OE1	2.35	0.58
46:UF:275:SER:O	46:UF:279:GLN:NE2	2.36	0.58
46:UN:289:LEU:HD13	46:UN:365:VAL:HG23	1.85	0.58
46:VF:316:LEU:HD13	46:VF:352:SER:HB2	1.84	0.58
45:WC:221:ARG:NH2	46:WD:322:SER:H	1.99	0.58
46:WJ:3:GLU:HG3	46:WJ:49:VAL:HA	1.85	0.58
45:CE:335:ILE:HA	45:CE:338:LYS:NZ	2.19	0.58
45:DC:268:MET:SD	45:DC:380:ASN:HB3	2.43	0.58
6:0F:137:ARG:HB3	6:0F:154:LEU:HD22	1.84	0.58
11:0S:18:ARG:NH2	11:0S:29:ASP:OD1	2.36	0.58
13:0U:161:LYS:NZ	13:0U:174:THR:OG1	2.26	0.58
5:1E:38:ASP:O	5:1E:40:ASN:N	2.36	0.58
7:1G:172:TYR:OH	45:KA:1:MET:O	2.16	0.58
21:1L:428:GLN:HG2	21:1L:431:ARG:HD3	1.85	0.58
12:2T:275:LEU:HD12	13:2U:316:ASN:HD21	1.68	0.58
27:3C:94:CYS:SG	27:3C:95:ILE:N	2.76	0.58
10:3Q:38:THR:HA	10:3Q:45:SER:HA	1.85	0.58
33:4F:227:ASN:OD1	33:4F:229:ARG:NH2	2.36	0.58
34:4R:466:TRP:HH2	46:EF:73:MET:HE1	1.69	0.58
40:6G:138:LYS:HD2	45:VG:341:ILE:HD11	1.86	0.58
47:AA:501:GTP:O1G	46:AB:252:LYS:NZ	2.27	0.58
46:AH:207:LEU:HB3	46:AH:225:LEU:HD22	1.85	0.58
45:BA:426:ALA:HB1	45:BA:430:LYS:NZ	2.18	0.58
46:BD:316:LEU:HD13	46:BD:352:SER:HB3	1.86	0.58
45:BE:260:VAL:HB	46:BH:397:TRP:HZ2	1.67	0.58
45:BG:420:GLU:HA	45:BG:423:GLU:HG3	1.85	0.58
45:CA:223:THR:HG23	45:CA:225:THR:H	1.68	0.58
46:CH:318:ARG:HB3	46:CH:357:PRO:HA	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DI:9:VAL:HG12	45:DI:68:LEU:HB2	1.84	0.58
45:EA:226:ASN:ND2	45:EA:367:ASP:OD2	2.36	0.58
46:EJ:238:CYS:SG	46:EJ:239:CYS:N	2.77	0.58
45:EM:244:PHE:HB2	45:EM:356:ASN:HD21	1.68	0.58
46:FB:31:ASP:OD2	46:FB:37:HIS:ND1	2.36	0.58
46:FB:135:ILE:HG13	46:FB:152:ILE:HD11	1.85	0.58
46:FH:260:PHE:HB2	46:FH:263:LEU:HD13	1.85	0.58
46:FN:139:LEU:HD12	46:FN:170:VAL:HG22	1.85	0.58
46:GB:73:MET:HA	46:GB:76:VAL:HG12	1.85	0.58
46:GL:55:THR:HG23	46:HL:283:ALA:HA	1.85	0.58
46:GL:267:MET:HE1	46:GL:305:PRO:HB3	1.86	0.58
46:HB:318:ARG:HB3	46:HB:357:PRO:HA	1.86	0.58
46:HD:309:ARG:NH2	46:HD:426:GLN:O	2.30	0.58
45:IC:311:LYS:HZ3	45:IC:342:GLN:HG3	1.67	0.58
45:IE:244:PHE:HB2	45:IE:356:ASN:HD21	1.67	0.58
45:JA:251:ASP:OD1	45:JA:252:ILE:N	2.37	0.58
45:JC:75:ILE:HG22	45:JC:79:ARG:HE	1.67	0.58
46:JD:326:VAL:O	46:JD:330:MET:HG2	2.03	0.58
46:JH:45:GLU:OE1	46:JH:46:ARG:HG2	2.03	0.58
45:JM:292:THR:HG23	45:JM:317:MET:HE1	1.85	0.58
45:KE:214:ARG:HH21	45:KE:215:ARG:HH21	1.50	0.58
45:LM:55:GLU:OE2	45:LM:61:HIS:NE2	2.36	0.58
45:ME:288:VAL:HG11	45:ME:327:ASP:HB3	1.83	0.58
45:MK:55:GLU:OE2	45:MK:61:HIS:NE2	2.37	0.58
45:NA:372:MET:HG2	45:NA:373:ARG:HD3	1.84	0.58
45:NC:88:HIS:CD2	45:NC:90:GLU:HG3	2.39	0.58
45:NI:2:ARG:HH21	45:NI:243:ARG:HA	1.68	0.58
46:NL:258:ILE:HD12	46:NL:264:HIS:HB3	1.85	0.58
46:OB:405:GLU:OE2	46:OB:409:THR:OG1	2.22	0.58
45:OG:140:SER:OG	47:OG:501:GTP:O2B	2.20	0.58
45:PM:108:TYR:CE2	45:PM:413:MET:HB3	2.38	0.58
46:PN:274:THR:HG21	46:PN:282:ARG:HH21	1.69	0.58
46:QD:67:ASP:O	46:QD:92:PHE:HA	2.03	0.58
46:QF:11:GLN:NE2	49:QF:501:GDP:O1A	2.29	0.58
46:QN:207:LEU:HB3	46:QN:225:LEU:HD22	1.84	0.58
46:RD:245:GLN:O	45:RE:11:GLN:NE2	2.36	0.58
45:RK:67:PHE:HB2	45:RK:92:LEU:HG	1.84	0.58
45:SM:116:ASP:OD1	45:SM:117:LEU:N	2.36	0.58
46:TJ:9:GLY:HA3	46:TJ:66:MET:HE2	1.83	0.58
46:TJ:10:GLY:O	46:TJ:14:ASN:ND2	2.36	0.58
46:UB:350:LYS:NZ	46:UB:351:SER:O	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UM:77:GLU:HA	45:UM:80:THR:HG22	1.85	0.58
46:UN:99:ASN:HA	46:UN:142:GLY:H	1.67	0.58
46:VH:49:VAL:HG11	46:VH:241:ARG:HG2	1.85	0.58
45:WA:215:ARG:NH1	45:WA:299:ALA:HB1	2.19	0.58
46:WB:67:ASP:O	46:WB:92:PHE:HA	2.02	0.58
45:WE:212:ILE:HD11	45:WE:300:ASN:HA	1.84	0.58
45:WI:70:LEU:HD13	45:WI:95:GLY:HA3	1.85	0.58
4:0D:212:ASN:HB3	34:7R:433:GLN:HE22	1.67	0.58
6:0F:174:GLU:O	6:0F:178:GLY:HA3	2.03	0.58
13:0U:52:ARG:O	13:0U:54:HIS:N	2.34	0.58
8:1H:288:ARG:HA	8:1H:291:ARG:CD	2.33	0.58
21:1L:746:ILE:HD12	21:1L:749:ILE:HD11	1.84	0.58
24:1P:287:ARG:HH21	24:1P:290:LEU:HD11	1.67	0.58
25:1R:48:LEU:O	25:1R:200:ASN:ND2	2.36	0.58
5:2E:63:GLU:HA	5:2E:66:VAL:HG12	1.85	0.58
25:2R:8:LEU:HB2	25:2R:11:PHE:CD2	2.39	0.58
12:2T:209:PHE:O	12:2T:212:THR:OG1	2.20	0.58
11:3S:152:SER:OG	46:WN:94:GLN:NE2	2.37	0.58
13:3U:453:TRP:HE1	13:3U:469:ALA:HB2	1.69	0.58
33:4F:17:LYS:HE3	33:4F:17:LYS:HA	1.85	0.58
36:5B:167:LYS:NZ	45:NG:278:ALA:O	2.31	0.58
45:AI:101:ASN:HA	45:AI:144:GLY:H	1.68	0.58
46:AN:58:ARG:HD2	46:BN:280:GLN:HE22	1.68	0.58
46:BB:5:VAL:HG12	46:BB:62:ARG:HD3	1.85	0.58
46:BH:300:MET:HA	46:BH:300:MET:HE2	1.85	0.58
46:BL:273:LEU:H	46:BL:292:GLN:HE22	1.50	0.58
45:BM:76:ASP:OD1	45:BM:79:ARG:NH2	2.37	0.58
45:CA:60:LYS:NZ	45:CA:86:LEU:O	2.29	0.58
46:CB:44:LEU:HD22	46:CB:47:ILE:HD13	1.85	0.58
45:DM:254:GLU:HG2	46:DN:98:GLY:HA2	1.85	0.58
46:EB:330:MET:HA	46:EB:333:VAL:HG12	1.84	0.58
45:EC:206:ASN:HA	45:EC:209:ILE:HG12	1.85	0.58
46:ED:324:LYS:HZ2	45:EE:214:ARG:HB2	1.68	0.58
45:FA:75:ILE:HD11	45:FA:92:LEU:HB3	1.84	0.58
45:FC:7:ILE:HB	45:FC:137:VAL:HG12	1.85	0.58
45:FE:71:GLU:OE1	46:FF:247:ASN:ND2	2.36	0.58
45:GA:294:SER:O	45:GA:300:ASN:ND2	2.30	0.58
46:GB:48:ASN:O	46:GB:62:ARG:NH2	2.37	0.58
45:GC:288:VAL:HA	45:GC:291:ILE:HG12	1.86	0.58
45:GG:109:THR:O	45:GG:112:LYS:NZ	2.35	0.58
45:GM:188:ILE:HD12	45:GM:425:LEU:HD11	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GN:135:ILE:HG13	46:GN:152:ILE:HD11	1.85	0.58
45:HC:260:VAL:HB	46:HF:397:TRP:CZ2	2.38	0.58
45:HE:408:TYR:HB3	45:HE:413:MET:HE2	1.86	0.58
46:IB:325:GLU:C	46:IB:329:GLN:HE21	2.11	0.58
46:IH:135:ILE:HG13	46:IH:152:ILE:HD11	1.85	0.58
45:II:292:THR:HG21	45:II:331:SER:HB3	1.84	0.58
45:IM:140:SER:OG	47:IM:501:GTP:O2B	2.22	0.58
46:IN:109:GLY:HA3	46:IN:147:MET:HE3	1.84	0.58
46:JH:260:PHE:HB2	46:JH:263:LEU:HD13	1.86	0.58
45:JM:90:GLU:OE1	45:KM:280:LYS:NZ	2.30	0.58
45:KA:152:LEU:O	45:KA:156:ARG:HG2	2.03	0.58
45:KE:227:LEU:O	45:KE:231:ILE:HG12	2.03	0.58
45:KG:414:GLU:CD	45:KG:416:GLY:H	2.12	0.58
46:KN:66:MET:HE2	46:KN:147:MET:HE3	1.84	0.58
46:KN:332:ASN:OD1	46:KN:336:LYS:NZ	2.21	0.58
46:MF:114:ASP:OD1	46:MF:115:SER:N	2.36	0.58
45:NA:116:ASP:OD1	45:NA:117:LEU:N	2.34	0.58
46:NB:203:ASP:OD2	46:NB:205:GLU:HG2	2.04	0.58
46:OD:333:VAL:HA	46:OD:336:LYS:HG2	1.86	0.58
46:OF:12:CYS:O	46:OF:16:ILE:HG12	2.03	0.58
45:OK:350:GLY:HA2	46:ON:179:VAL:HG23	1.84	0.58
46:ON:143:THR:O	46:ON:147:MET:HG2	2.03	0.58
46:QH:105:HIS:CE1	46:QH:150:LEU:HD13	2.38	0.58
46:QJ:183:TYR:CZ	46:QJ:388:MET:HE2	2.38	0.58
46:QL:164:MET:SD	46:QL:197:ASP:N	2.67	0.58
46:RD:311:LEU:N	46:RD:370:ASN:O	2.32	0.58
46:RF:73:MET:HA	46:RF:76:VAL:HG12	1.85	0.58
45:RI:123:ARG:NH2	45:RI:160:ASP:OD1	2.36	0.58
46:SF:51:TYR:HB3	46:SF:59:TYR:HB3	1.85	0.58
45:SM:271:SER:HA	45:SM:302:MET:HE3	1.84	0.58
45:TE:353:VAL:HG12	46:TF:177:ASP:OD1	2.03	0.58
45:TG:133:GLN:HB3	45:TG:252:ILE:HD11	1.85	0.58
46:TJ:289:LEU:O	46:TJ:293:MET:HG3	2.04	0.58
46:TL:145:SER:HB2	46:TL:188:SER:HB3	1.85	0.58
45:UG:251:ASP:OD1	45:UG:252:ILE:N	2.34	0.58
45:UG:399:TYR:O	45:UG:402:ARG:NH1	2.37	0.58
46:UH:64:ILE:HD12	46:UH:120:VAL:HG12	1.86	0.58
46:UJ:156:ARG:HH11	46:UJ:164:MET:HE1	1.67	0.58
45:UK:319:TYR:HB3	45:UK:323:VAL:HG11	1.84	0.58
46:UN:73:MET:HA	46:UN:76:VAL:HG12	1.86	0.58
46:VB:178:THR:HB	46:VB:181:GLU:HG3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VF:372:THR:HA	46:VF:422:TYR:HE2	1.67	0.58
46:WB:293:MET:HE2	46:WB:367:PHE:HB2	1.84	0.58
45:WC:260:VAL:HB	46:WF:397:TRP:CZ2	2.38	0.58
45:WE:326:LYS:HE2	45:WE:326:LYS:HA	1.84	0.58
46:WN:31:ASP:OD1	46:WN:35:THR:N	2.35	0.58
46:WN:248:SER:HA	46:WN:252:LYS:HD2	1.84	0.58
45:DC:11:GLN:HB2	45:DC:74:VAL:HG11	1.85	0.58
45:DC:318:MET:HG2	45:DC:376:CYS:SG	2.44	0.58
2:0B:22:LEU:O	46:JH:276:ARG:NH1	2.37	0.58
2:0B:161:PHE:CE1	9:1N:31:LYS:HG2	2.38	0.58
6:0F:31:HIS:HB2	6:0F:56:THR:HG21	1.86	0.58
7:0G:38:GLU:CG	7:0G:39:ARG:H	2.15	0.58
11:0S:223:ASP:HB3	11:0S:226:ILE:HG22	1.86	0.58
12:0T:106:ILE:HG21	12:0T:213:LEU:HD12	1.84	0.58
13:0U:414:THR:HG23	13:0U:417:CYS:H	1.67	0.58
8:1H:188:LYS:HB2	8:1H:189:LYS:HZ2	1.67	0.58
4:2D:118:ASP:HA	4:2D:121:LYS:HE2	1.85	0.58
9:2N:75:MET:HE1	9:2N:115:ALA:HA	1.86	0.58
12:2T:162:ASP:OD1	12:2T:163:VAL:N	2.36	0.58
12:2T:236:THR:HG23	12:2T:239:SER:H	1.67	0.58
13:2U:390:LEU:HD22	13:2U:395:LYS:HE2	1.85	0.58
25:3R:60:LYS:HD2	25:3R:85:THR:HG21	1.85	0.58
13:3U:377:ILE:O	13:3U:388:ALA:HA	2.02	0.58
37:5F:116:TYR:O	37:5F:118:PRO:HD3	2.02	0.58
39:6F:85:THR:HG22	39:6F:88:MET:HG2	1.84	0.58
46:AB:410:GLU:O	46:AB:414:ASN:ND2	2.37	0.58
46:AD:105:HIS:CE1	46:AD:150:LEU:HD12	2.37	0.58
45:AG:109:THR:O	45:AG:112:LYS:NZ	2.37	0.58
45:CK:334:THR:O	45:CK:338:LYS:HG3	2.04	0.58
46:DF:171:PRO:HB2	46:DF:181:GLU:OE2	2.03	0.58
45:EC:349:THR:OG1	46:ED:176:SER:OG	2.17	0.58
45:EE:68:LEU:HD13	45:EE:93:ILE:HB	1.85	0.58
46:FF:237:THR:HG23	46:FF:241:ARG:NH1	2.19	0.58
46:FL:52:ASN:OD1	46:FL:62:ARG:NH2	2.37	0.58
46:FL:139:LEU:HD13	46:FL:168:SER:HB3	1.85	0.58
45:GA:407:TRP:HH2	46:GB:258:ILE:HB	1.69	0.58
46:GB:249:ASP:OD1	46:GB:252:LYS:N	2.33	0.58
46:GH:371:SER:O	46:GH:422:TYR:OH	2.18	0.58
46:ID:316:LEU:HB2	46:ID:366:THR:HG22	1.84	0.58
45:IE:5:ILE:HD12	45:IE:135:PHE:HE2	1.69	0.58
46:JD:36:TYR:CZ	46:JD:44:LEU:HD11	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JG:28:HIS:NE2	45:JG:48:ALA:O	2.28	0.58
46:JJ:274:THR:HG21	46:JJ:282:ARG:HD3	1.83	0.58
46:JL:183:TYR:HB3	46:JL:398:TYR:HE2	1.69	0.58
46:JL:267:MET:HE1	46:JL:305:PRO:HG3	1.86	0.58
46:JL:350:LYS:NZ	46:JL:352:SER:HG	2.02	0.58
45:JM:113:GLU:OE2	45:JM:113:GLU:N	2.31	0.58
46:KF:52:ASN:OD1	46:KF:62:ARG:NH2	2.36	0.58
46:MD:229:VAL:HG12	46:MD:233:MET:HE2	1.85	0.58
46:MJ:31:ASP:OD1	46:MJ:37:HIS:NE2	2.36	0.58
46:MN:309:ARG:NH2	46:MN:426:GLN:O	2.27	0.58
45:NA:398:MET:HE1	46:NB:346:PRO:HD2	1.85	0.58
46:ND:19:LYS:HG3	46:ND:226:ASN:HB3	1.84	0.58
46:NF:31:ASP:OD1	46:NF:35:THR:N	2.34	0.58
46:NH:403:MET:HB2	46:NH:407:GLU:OE1	2.03	0.58
45:NI:7:ILE:HB	45:NI:137:VAL:HG12	1.85	0.58
46:NJ:330:MET:HE2	46:NJ:349:ILE:HG21	1.85	0.58
46:OB:262:ARG:NH1	46:OB:421:GLU:OE1	2.37	0.58
46:OD:237:THR:OG1	46:OD:241:ARG:NH2	2.37	0.58
46:OD:249:ASP:H	46:OD:252:LYS:HE3	1.67	0.58
45:OK:4:VAL:HG11	45:OK:136:LEU:HD23	1.84	0.58
46:ON:306:ARG:HA	46:ON:340:TYR:HE1	1.69	0.58
45:PA:99:ALA:HB3	45:PA:145:THR:HB	1.86	0.58
45:PA:342:GLN:NE2	45:PA:343:PHE:O	2.37	0.58
46:PD:289:LEU:O	46:PD:293:MET:HG3	2.03	0.58
45:PG:174:SER:HB2	45:PG:177:VAL:O	2.04	0.58
45:PG:352:LYS:HZ3	46:PJ:179:VAL:N	1.96	0.58
46:PL:268:ILE:HG22	46:PL:368:VAL:HG22	1.85	0.58
45:QA:326:LYS:NZ	46:QB:220:PRO:O	2.35	0.58
45:QC:390:ARG:HB3	45:QC:394:LYS:NZ	2.19	0.58
46:QH:86:ARG:HH22	46:RH:282:ARG:HA	1.69	0.58
46:QH:208:TYR:CE1	46:QH:225:LEU:HD11	2.38	0.58
45:RC:140:SER:OG	47:RC:501:GTP:O2B	2.18	0.58
46:RL:217:LEU:HD23	46:RL:219:THR:H	1.67	0.58
46:RN:257:LEU:HD11	46:RN:314:SER:HB2	1.86	0.58
46:SD:6:HIS:O	46:SD:63:ALA:HA	2.02	0.58
45:SE:27:GLU:HB3	45:SE:361:THR:HG21	1.86	0.58
46:SH:114:ASP:OD1	46:SH:115:SER:N	2.36	0.58
45:SK:82:THR:HG23	45:SK:83:TYR:CD1	2.39	0.58
45:SM:108:TYR:HA	45:SM:112:LYS:HE3	1.85	0.58
46:TD:222:TYR:O	46:TD:226:ASN:ND2	2.25	0.58
46:TF:55:THR:HG23	46:UF:283:ALA:HA	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TG:109:THR:HG22	45:TG:110:ILE:HG23	1.83	0.58
46:TJ:2:ARG:NH2	45:TK:72:PRO:HD2	2.19	0.58
46:TJ:318:ARG:HH21	46:TJ:357:PRO:C	2.12	0.58
46:UJ:12:CYS:O	46:UJ:16:ILE:HD12	2.03	0.58
45:WA:140:SER:OG	47:WA:501:GTP:O2B	2.21	0.58
46:WB:183:TYR:CE1	46:WB:388:MET:HE3	2.39	0.58
45:WC:372:MET:HG2	45:WC:373:ARG:HD3	1.85	0.58
45:WG:250:VAL:HG13	45:WG:254:GLU:HB2	1.85	0.58
46:WH:290:THR:HA	46:WH:293:MET:HG3	1.85	0.58
45:WM:27:GLU:OE2	45:WM:243:ARG:NH1	2.35	0.58
45:WM:181:VAL:HG13	46:WN:350:LYS:HZ1	1.67	0.58
6:0F:87:PRO:HB3	6:0F:90:ARG:HH22	1.69	0.58
13:0U:319:HIS:NE2	13:0U:340:SER:OG	2.15	0.58
16:1B:461:ASN:ND2	16:1B:464:GLN:OE1	2.36	0.58
3:1C:53:TYR:HB3	45:EM:221:ARG:HH21	1.67	0.58
4:1D:99:ARG:HH12	45:EG:365:GLY:H	1.52	0.58
8:1H:276:LYS:HE2	20:1K:116:VAL:HA	1.83	0.58
21:1L:302:SER:HA	21:1L:338:GLN:H	1.67	0.58
14:1V:22:ARG:NH2	45:MI:422:ARG:HH12	1.99	0.58
14:1V:24:ARG:HH22	45:MI:434:GLU:HG2	1.69	0.58
27:2C:275:SER:O	27:2C:279:ARG:NH2	2.35	0.58
4:2D:120:MET:HE2	4:2D:126:TRP:HB2	1.84	0.58
21:2L:575:LYS:HG3	21:2L:576:GLU:N	2.18	0.58
21:2L:899:LEU:O	46:CJ:320:ARG:NH2	2.36	0.58
11:2S:280:LYS:HB3	11:2S:286:LEU:HD11	1.85	0.58
11:2S:282:THR:HG23	11:2S:285:ASP:HB3	1.84	0.58
1:3A:16:LEU:HA	1:3A:19:ARG:HB3	1.86	0.58
16:3B:181:LYS:HB3	16:3B:184:TYR:HB2	1.86	0.58
27:3C:36:ARG:HH21	27:3C:92:LEU:HB2	1.68	0.58
32:3D:169:GLU:OE1	32:3D:169:GLU:N	2.36	0.58
21:3L:202:ASN:HB3	21:3L:205:GLU:HB2	1.85	0.58
23:3O:427:LEU:HD12	23:3O:430:GLN:HB3	1.84	0.58
25:3R:60:LYS:NZ	30:4H:220:ARG:HG2	2.19	0.58
10:5Q:91:VAL:HG12	10:5Q:154:VAL:HG12	1.85	0.58
35:5S:76:ILE:HA	35:5S:89:TRP:CD1	2.39	0.58
35:5S:111:GLU:HG2	35:5S:116:TYR:HB2	1.86	0.58
40:6G:211:SER:HB3	46:VF:213:ARG:HH22	1.68	0.58
46:AB:148:GLY:O	46:AB:152:ILE:HG12	2.03	0.58
45:AC:414:GLU:CD	45:AC:416:GLY:H	2.12	0.58
46:AD:403:MET:HB3	46:AD:407:GLU:OE2	2.04	0.58
46:AF:148:GLY:O	46:AF:152:ILE:HG12	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AH:68:LEU:HD12	46:AH:93:GLY:HA3	1.86	0.58
46:AH:167:PHE:CE1	46:AH:233:MET:HG2	2.38	0.58
46:AJ:69:GLU:CD	46:AJ:71:GLY:H	2.11	0.58
46:AL:67:ASP:OD1	46:AL:68:LEU:N	2.36	0.58
46:BB:207:LEU:HB3	46:BB:225:LEU:HD22	1.86	0.58
45:BC:284:GLU:HG3	45:BC:286:LEU:HD12	1.86	0.58
46:BD:67:ASP:HB3	46:BD:73:MET:HE1	1.86	0.58
45:BI:426:ALA:O	45:BI:430:LYS:HG2	2.04	0.58
46:CH:22:GLU:HG3	46:CH:81:PHE:CD2	2.37	0.58
46:ED:12:CYS:O	46:ED:16:ILE:HG12	2.04	0.58
45:EE:172:TYR:HH	45:EE:191:THR:HG1	1.50	0.58
45:EE:326:LYS:HZ1	46:EF:208:TYR:HB3	1.66	0.58
45:EG:176:GLN:OE1	45:EG:304:LYS:NZ	2.37	0.58
45:EK:326:LYS:HD2	46:EL:220:PRO:HD2	1.85	0.58
46:EL:45:GLU:HG2	46:EL:46:ARG:HG2	1.86	0.58
45:FA:285:GLN:O	45:FA:373:ARG:NH2	2.37	0.58
45:FC:36:MET:HE3	45:FC:61:HIS:CE1	2.38	0.58
46:FD:173:PRO:HG2	46:FD:380:ARG:HH11	1.67	0.58
46:FF:222:TYR:HA	46:FF:225:LEU:HD12	1.86	0.58
46:GD:210:ILE:O	46:GD:214:THR:OG1	2.21	0.58
45:GE:292:THR:HG21	45:GE:331:SER:HB3	1.86	0.58
46:HB:45:GLU:HG3	46:HB:46:ARG:HG2	1.86	0.58
46:HH:175:VAL:HG22	46:HH:205:GLU:HB3	1.86	0.58
45:HI:401:LYS:HZ1	46:HJ:344:TRP:CG	2.21	0.58
46:IB:248:SER:HA	46:IB:252:LYS:HG3	1.86	0.58
45:JI:123:ARG:HH11	45:JI:123:ARG:HA	1.69	0.58
46:JJ:1:MET:HG3	46:JJ:48:ASN:HD21	1.67	0.58
46:JJ:222:TYR:O	46:JJ:226:ASN:ND2	2.29	0.58
46:JN:8:GLN:HE21	46:JN:14:ASN:HA	1.68	0.58
45:KA:65:ALA:O	45:KA:91:GLN:NE2	2.37	0.58
45:MG:11:GLN:NE2	46:MH:245:GLN:O	2.36	0.58
45:NA:214:ARG:HH12	45:NA:220:GLU:HA	1.67	0.58
45:NK:226:ASN:ND2	45:NK:367:ASP:OD2	2.36	0.58
45:NM:265:ILE:HG12	45:NM:432:TYR:HE1	1.69	0.58
46:NN:178:THR:HB	46:NN:181:GLU:HG3	1.84	0.58
46:NN:313:ALA:HB1	46:NN:367:PHE:HE1	1.68	0.58
46:OH:10:GLY:O	46:OH:14:ASN:ND2	2.37	0.58
46:OL:60:VAL:HG11	46:OL:86:ARG:HH21	1.68	0.58
45:PE:60:LYS:HZ1	45:PE:86:LEU:HA	1.69	0.58
45:PG:155:GLU:HA	45:PG:197:HIS:HD2	1.69	0.58
46:PH:222:TYR:O	46:PH:226:ASN:ND2	2.24	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QC:268:MET:HE3	45:QC:380:ASN:N	2.18	0.58
45:QC:426:ALA:HB1	45:QC:430:LYS:NZ	2.18	0.58
45:QG:141:VAL:HG11	45:QG:172:TYR:HD1	1.68	0.58
46:QL:2:ARG:HH21	45:QM:72:PRO:HD3	1.67	0.58
45:RC:336:LYS:O	45:RC:339:ARG:NH2	2.36	0.58
46:RJ:268:ILE:HG13	46:RJ:300:MET:HE2	1.85	0.58
45:RK:188:ILE:HD12	45:RK:425:LEU:HD11	1.86	0.58
46:RN:55:THR:HG23	46:SN:283:ALA:HA	1.85	0.58
45:SA:55:GLU:HG3	45:SA:57:GLY:H	1.67	0.58
45:SM:121:ARG:HA	45:SM:124:LYS:HG2	1.85	0.58
45:TC:89:PRO:HD2	45:UC:280:LYS:HE3	1.86	0.58
46:TD:200:MET:HG3	46:TD:266:PHE:HB2	1.86	0.58
46:TF:151:LEU:HA	46:TF:154:LYS:NZ	2.19	0.58
45:UC:329:ASN:HA	45:UC:332:ILE:HG12	1.84	0.58
46:UD:109:GLY:O	46:UD:113:ILE:HG23	2.04	0.58
46:UJ:320:ARG:NH2	45:UK:221:ARG:HH21	2.00	0.58
46:VD:260:PHE:HB2	46:VD:263:LEU:HD23	1.86	0.58
45:VG:324:VAL:HG12	45:VG:326:LYS:HG2	1.86	0.58
45:VG:328:VAL:HG11	45:VG:353:VAL:HG21	1.84	0.58
45:DC:231:ILE:O	45:DC:235:ILE:HG12	2.03	0.58
45:DC:251:ASP:OD1	45:DC:252:ILE:N	2.36	0.58
4:0D:27:ILE:HG23	4:0D:29:ILE:HB	1.85	0.58
4:0D:166:ARG:HD3	4:0D:167:ILE:HD13	1.86	0.58
15:0X:93:ALA:O	15:0X:96:ARG:HG2	2.04	0.58
16:1B:411:GLY:HA3	16:1B:492:PHE:HZ	1.68	0.58
19:1J:192:VAL:HG21	19:1J:197:HIS:CD2	2.39	0.58
9:1N:190:PRO:HG2	45:KG:42:ILE:HG21	1.85	0.58
10:1Q:95:ASP:OD2	10:1Q:101:ARG:NH1	2.36	0.58
12:1T:135:GLN:NE2	12:1T:140:GLN:O	2.37	0.58
15:1X:75:LEU:HD12	46:MF:280:GLN:HE22	1.69	0.58
15:1X:129:ILE:HG22	15:1X:133:LYS:NZ	2.17	0.58
1:2A:112:LEU:HD22	25:2R:166:TYR:CE2	2.39	0.58
30:2H:199:GLU:C	30:2H:201:ASN:H	2.11	0.58
23:2O:159:GLN:HA	23:2O:162:GLU:CD	2.29	0.58
24:2P:414:ASN:OD1	24:2P:418:GLN:NE2	2.34	0.58
27:3C:140:GLN:HA	32:3D:190:HIS:CE1	2.39	0.58
23:3O:421:LYS:NZ	23:3O:422:LYS:HE3	2.18	0.58
10:3Q:70:GLY:HA2	10:3Q:150:GLU:OE1	2.04	0.58
35:5S:110:ARG:HG3	35:5S:152:THR:HG21	1.85	0.58
46:AB:268:ILE:HG22	46:AB:368:VAL:HG22	1.84	0.58
45:AC:80:THR:O	45:AC:84:ARG:NH2	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BC:88:HIS:O	45:BC:91:GLN:HG2	2.04	0.58
45:BK:316:SER:HA	45:BK:352:LYS:HB2	1.86	0.58
45:BM:222:PRO:HD2	46:BN:324:LYS:CE	2.33	0.58
46:BN:328:GLU:O	46:BN:332:ASN:ND2	2.30	0.58
46:BN:407:GLU:HA	46:BN:410:GLU:HG2	1.84	0.58
46:DJ:99:ASN:ND2	46:DJ:178:THR:HG21	2.19	0.58
46:DL:87:PRO:HA	46:DL:90:PHE:HD2	1.68	0.58
45:EC:286:LEU:HD21	45:EC:371:VAL:HG13	1.86	0.58
45:EC:296:PHE:HE2	45:EC:335:ILE:HG13	1.68	0.58
45:EG:251:ASP:OD1	45:EG:252:ILE:N	2.36	0.58
46:EH:39:ASP:OD2	46:EH:43:GLN:NE2	2.37	0.58
46:EL:8:GLN:HE21	46:EL:65:LEU:HG	1.69	0.58
46:EN:32:PRO:HG3	46:EN:81:PHE:HE1	1.68	0.58
46:EN:299:MET:HG3	46:EN:305:PRO:HG3	1.86	0.58
46:FD:269:GLY:HA2	46:FD:300:MET:HE2	1.85	0.58
46:FH:31:ASP:OD2	46:FH:35:THR:OG1	2.21	0.58
46:FJ:276:ARG:HA	46:FJ:279:GLN:HB2	1.85	0.58
46:FJ:289:LEU:HD13	46:FJ:365:VAL:HG23	1.86	0.58
45:GE:133:GLN:HB3	45:GE:252:ILE:HD11	1.86	0.58
45:GG:292:THR:HG21	45:GG:331:SER:HB3	1.86	0.58
45:HA:390:ARG:NH1	45:HA:391:LEU:HG	2.18	0.58
46:HJ:99:ASN:HA	46:HJ:142:GLY:H	1.68	0.58
46:IJ:318:ARG:HB3	46:IJ:357:PRO:HA	1.84	0.58
46:JB:182:PRO:HD2	46:JB:388:MET:HE1	1.86	0.58
46:JF:259:PRO:HG2	46:JF:311:LEU:HD23	1.86	0.58
45:KE:33:ASP:OD1	45:KE:34:GLY:N	2.37	0.58
46:LD:203:ASP:OD2	46:LD:302:ALA:N	2.32	0.58
45:LK:326:LYS:HZ3	46:LN:208:TYR:HB3	1.66	0.58
45:MA:116:ASP:OD1	45:MA:117:LEU:N	2.36	0.58
46:MB:137:HIS:CE1	46:MB:166:THR:OG1	2.57	0.58
46:NH:58:ARG:NH2	46:OH:280:GLN:HG3	2.19	0.58
45:NK:105:ARG:NH2	45:NK:411:GLU:OE2	2.37	0.58
45:OE:90:GLU:O	45:OE:121:ARG:NH1	2.36	0.58
46:OH:104:GLY:O	46:OH:147:MET:HE3	2.03	0.58
45:PG:261:PRO:HG2	45:PG:313:MET:HE3	1.86	0.58
45:PK:199:ASP:HB3	45:PK:256:GLN:NE2	2.19	0.58
45:PK:398:MET:HG3	46:PL:345:ILE:HG22	1.84	0.58
46:QB:207:LEU:HB3	46:QB:225:LEU:HD22	1.85	0.58
45:QG:69:ASP:O	45:QG:94:SER:HA	2.03	0.58
46:QL:331:LEU:HD11	45:QM:177:VAL:HG22	1.84	0.58
45:RG:254:GLU:OE2	46:RH:99:ASN:ND2	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SJ:207:LEU:HD23	46:SJ:225:LEU:HB2	1.84	0.58
46:SJ:347:ASN:ND2	45:SK:176:GLN:O	2.36	0.58
46:TB:86:ARG:NH2	46:TB:123:GLU:OE2	2.37	0.58
46:TB:212:PHE:HE1	46:TB:220:PRO:HG2	1.67	0.58
45:TK:115:VAL:O	45:TK:119:LEU:HG	2.03	0.58
45:UC:208:ALA:HB2	45:UC:304:LYS:HD3	1.86	0.58
45:UG:2:ARG:HG3	45:UG:51:THR:HG22	1.86	0.58
46:UL:86:ARG:HH11	46:VL:282:ARG:HH12	1.51	0.58
46:UN:11:GLN:N	49:UN:501:GDP:O3B	2.33	0.58
46:UN:86:ARG:NH1	46:UN:89:ASN:OD1	2.36	0.58
46:UN:102:ALA:HB2	46:UN:403:MET:HE2	1.84	0.58
46:VB:32:PRO:O	46:VB:83:GLN:NE2	2.27	0.58
46:VB:318:ARG:HB3	46:VB:364:ALA:HB3	1.85	0.58
45:VE:75:ILE:HG23	45:VE:92:LEU:HD23	1.84	0.58
46:VF:278:SER:HA	46:VF:281:TYR:HD2	1.69	0.58
46:VF:336:LYS:HE3	46:VF:336:LYS:HA	1.86	0.58
46:VL:77:ARG:NH2	46:VL:83:GLN:HA	2.19	0.58
45:WC:51:THR:HG23	45:WC:52:PHE:CD2	2.38	0.58
45:WK:229:ARG:HD2	45:WK:363:VAL:HG11	1.85	0.58
8:0H:419:LEU:HD21	8:1H:74:LEU:HD11	1.86	0.58
9:0N:265:ASN:HB2	45:KK:42:ILE:HD13	1.86	0.58
13:0U:515:THR:OG1	13:0U:517:TRP:NE1	2.32	0.58
14:0V:113:ARG:HE	45:LM:196:GLU:HA	1.69	0.58
8:1H:306:ARG:HG3	8:1H:309:LYS:NZ	2.18	0.58
21:1L:45:ARG:HH21	46:BJ:363:MET:HE1	1.67	0.58
13:1U:578:ILE:HD11	13:1U:592:SER:HB2	1.86	0.58
26:1W:82:ARG:O	26:1W:85:ILE:HG22	2.02	0.58
20:2K:248:GLU:O	20:2K:252:HIS:ND1	2.33	0.58
22:2M:332:ILE:HG13	22:2M:333:ARG:HG2	1.85	0.58
11:2S:133:GLU:OE2	11:2S:136:ARG:NE	2.36	0.58
1:3A:16:LEU:O	15:3X:79:ARG:NH1	2.37	0.58
34:4R:351:ASN:OD1	34:4R:352:CYS:N	2.37	0.58
37:5G:87:LEU:HD13	37:5G:92:GLN:HB3	1.86	0.58
46:AB:221:THR:HG23	46:AB:224:ASP:H	1.68	0.58
46:BB:100:ASN:ND2	46:BB:401:GLU:OE1	2.37	0.58
45:BE:135:PHE:HE2	45:BE:157:LEU:HD12	1.69	0.58
46:BN:6:HIS:NE2	46:BN:8:GLN:OE1	2.37	0.58
46:CB:39:ASP:OD1	46:CB:40:SER:N	2.37	0.58
46:CB:207:LEU:HD22	46:CB:228:LEU:HD11	1.86	0.58
46:CH:109:GLY:O	46:CH:113:ILE:HG23	2.04	0.58
45:CM:55:GLU:HG3	45:CM:57:GLY:H	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DE:141:VAL:HG11	45:DE:172:TYR:CD1	2.39	0.58
46:DL:129:CYS:SG	45:DM:96:LYS:HE3	2.44	0.58
45:EE:120:ASP:OD1	45:EE:123:ARG:NH2	2.37	0.58
46:EF:12:CYS:O	46:EF:16:ILE:HG12	2.04	0.58
46:EF:293:MET:HE1	46:EF:315:ALA:HB2	1.85	0.58
46:EH:150:LEU:O	46:EH:154:LYS:HG2	2.04	0.58
45:EI:319:TYR:HB3	45:EI:323:VAL:HG21	1.86	0.58
45:EK:288:VAL:HA	45:EK:291:ILE:HG12	1.84	0.58
45:FA:33:ASP:HA	45:FA:85:GLN:HE21	1.67	0.58
45:FM:231:ILE:O	45:FM:235:ILE:HG12	2.04	0.58
46:HD:237:THR:HG23	46:HD:241:ARG:HH21	1.67	0.58
46:HD:326:VAL:O	46:HD:330:MET:HG2	2.03	0.58
45:HE:90:GLU:OE2	45:HE:121:ARG:NH2	2.35	0.58
45:IA:121:ARG:HA	45:IA:124:LYS:NZ	2.18	0.58
46:IJ:107:THR:OG1	46:IJ:108:GLU:OE1	2.22	0.58
46:IL:332:ASN:O	46:IL:336:LYS:HG3	2.03	0.58
45:JE:46:ASP:OD1	45:JE:47:ASP:N	2.37	0.58
45:JE:251:ASP:OD1	45:JE:252:ILE:N	2.37	0.58
45:KE:269:LEU:HG	45:KE:301:MET:HE2	1.85	0.58
45:KG:394:LYS:NZ	46:KH:346:PRO:O	2.36	0.58
46:KN:167:PHE:HA	46:KN:200:MET:HB2	1.85	0.58
46:LD:156:ARG:HG3	46:LD:195:ASN:HB3	1.86	0.58
45:MA:150:GLY:O	45:MA:154:LEU:HD23	2.03	0.58
46:MD:322:SER:OG	46:MD:325:GLU:OE1	2.22	0.58
45:MG:71:GLU:HB2	45:MG:98:ASP:HB3	1.85	0.58
46:MN:114:ASP:OD1	46:MN:115:SER:N	2.37	0.58
46:OB:221:THR:HG22	46:OB:223:GLY:H	1.68	0.58
46:OD:10:GLY:O	46:OD:14:ASN:ND2	2.35	0.58
46:OD:203:ASP:OD2	46:OD:377:MET:HE1	2.04	0.58
46:OJ:83:GLN:O	46:PJ:281:TYR:OH	2.20	0.58
46:PD:153:SER:HB2	46:PD:191:GLN:HE21	1.68	0.58
45:QE:11:GLN:H	45:QE:11:GLN:CD	2.12	0.58
46:QH:273:LEU:N	46:QH:292:GLN:HE22	2.02	0.58
46:QL:2:ARG:NH1	45:QM:98:ASP:H	2.01	0.58
45:RG:85:GLN:H	45:RG:85:GLN:CD	2.12	0.58
45:RI:56:THR:HG23	45:RI:58:ALA:H	1.68	0.58
45:SK:31:GLN:HB3	45:SK:33:ASP:OD1	2.03	0.58
45:TC:55:GLU:O	45:UC:285:GLN:NE2	2.37	0.58
46:TD:54:ALA:HB3	46:TD:58:ARG:HG2	1.86	0.58
45:TG:352:LYS:HZ3	46:TH:178:THR:N	2.01	0.58
46:TH:405:GLU:OE2	46:TH:409:THR:OG1	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UC:426:ALA:HB1	45:UC:430:LYS:NZ	2.19	0.58
45:UI:352:LYS:NZ	46:UJ:178:THR:HA	2.18	0.58
46:VD:68:LEU:HB3	46:VD:96:GLY:HA2	1.85	0.58
45:VG:90:GLU:OE2	45:VG:121:ARG:NH1	2.37	0.58
46:VH:330:MET:HB3	46:VH:349:ILE:HD13	1.85	0.58
46:VL:67:ASP:O	46:VL:92:PHE:HA	2.03	0.58
46:VL:143:THR:O	46:VL:147:MET:HG3	2.04	0.58
45:WA:352:LYS:HE2	46:WD:178:THR:HA	1.86	0.58
46:WD:68:LEU:HD23	46:WD:143:THR:HB	1.86	0.58
45:WI:260:VAL:HG23	46:WL:397:TRP:HE1	1.69	0.58
45:CE:174:SER:HB3	45:CE:177:VAL:O	2.03	0.58
2:0B:26:GLN:HE21	2:0B:28:PHE:HB3	1.69	0.58
9:0N:225:TYR:O	9:0N:231:GLN:NE2	2.37	0.58
19:1J:262:VAL:HB	45:II:370:LYS:HZ2	1.67	0.58
25:1R:486:VAL:HA	25:1R:499:ILE:HB	1.85	0.58
16:2B:17:GLN:HE22	16:2B:60:LEU:HD21	1.68	0.58
20:2K:354:TRP:CH2	46:GJ:276:ARG:HG3	2.39	0.58
23:2O:368:GLU:HG3	45:VC:370:LYS:NZ	2.19	0.58
23:2O:440:GLN:HA	23:2O:443:ARG:HH12	1.69	0.58
14:2V:12:LYS:HD2	14:2V:12:LYS:H	1.69	0.58
21:3L:217:ASN:HB2	21:3L:221:MET:HE1	1.85	0.58
10:3Q:102:ARG:HH22	10:3Q:117:PHE:HB3	1.67	0.58
25:3R:60:LYS:HZ3	30:4H:220:ARG:HG2	1.68	0.58
12:3T:143:PHE:HE2	12:3T:222:LEU:HD22	1.68	0.58
15:3X:38:ILE:O	15:3X:42:LYS:HG3	2.04	0.58
36:5C:126:ILE:HG23	46:NL:224:ASP:OD1	2.03	0.58
39:6F:62:GLN:H	45:IE:84:ARG:HH12	1.52	0.58
46:AB:166:THR:HG21	46:AB:192:LEU:HD11	1.86	0.58
46:AF:178:THR:HG22	46:AF:180:VAL:H	1.68	0.58
46:AL:10:GLY:O	46:AL:14:ASN:ND2	2.36	0.58
45:BM:90:GLU:HG3	45:BM:121:ARG:NH1	2.19	0.58
46:BN:273:LEU:H	46:BN:292:GLN:HE22	1.52	0.58
45:CK:53:PHE:O	45:CK:64:ARG:NH2	2.37	0.58
46:CL:214:THR:OG1	46:CL:297:LYS:NZ	2.37	0.58
46:CL:392:LYS:HA	46:CL:395:LEU:HD12	1.85	0.58
45:DE:68:LEU:HD22	45:DE:153:LEU:HD11	1.86	0.58
46:EJ:371:SER:O	46:EJ:422:TYR:OH	2.21	0.58
45:EM:315:CYS:SG	45:EM:377:MET:HE2	2.43	0.58
46:FF:238:CYS:SG	46:FF:239:CYS:N	2.77	0.58
46:FH:268:ILE:HG22	46:FH:368:VAL:HG22	1.85	0.58
45:FI:71:GLU:OE2	46:FJ:2:ARG:NH2	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FI:301:MET:HE1	45:FI:377:MET:HE1	1.86	0.58
45:FK:9:VAL:HG12	45:FK:68:LEU:HB2	1.84	0.58
45:GC:402:ARG:NH1	45:GC:415:GLU:OE2	2.28	0.58
45:HI:413:MET:HE3	45:HI:417:GLU:HG2	1.85	0.58
45:HM:76:ASP:OD2	46:HN:46:ARG:NH2	2.37	0.58
45:IC:313:MET:HE2	45:IC:382:THR:HG22	1.86	0.58
45:II:172:TYR:HD1	45:II:173:PRO:HD2	1.69	0.58
46:IL:7:ILE:HG13	46:IL:135:ILE:HG12	1.85	0.58
45:JG:96:LYS:HD3	46:JH:1:MET:HE1	1.86	0.58
45:JK:88:HIS:ND1	45:JK:90:GLU:OE1	2.36	0.58
46:KL:299:MET:HE3	46:KL:299:MET:HA	1.84	0.58
46:LJ:91:VAL:HG21	46:LJ:116:VAL:HB	1.86	0.58
45:LK:289:ALA:O	45:LK:293:ASN:ND2	2.27	0.58
45:MA:56:THR:HG23	45:MA:58:ALA:H	1.68	0.58
45:MC:176:GLN:NE2	45:MC:207:GLU:OE2	2.37	0.58
45:NA:286:LEU:O	45:NA:373:ARG:NH2	2.36	0.58
46:NH:128:ASP:OD1	46:NH:129:CYS:N	2.37	0.58
46:NH:391:ARG:HG3	46:NH:393:ALA:H	1.69	0.58
46:NL:99:ASN:HA	46:NL:142:GLY:HA3	1.85	0.58
46:NL:392:LYS:HG3	46:NL:395:LEU:HD23	1.85	0.58
45:OA:133:GLN:NE2	45:OA:251:ASP:OD1	2.37	0.58
45:OA:262:TYR:OH	46:OD:391:ARG:O	2.21	0.58
45:OE:98:ASP:OD1	45:OE:99:ALA:N	2.36	0.58
46:PL:389:PHE:CZ	46:PL:405:GLU:HG3	2.39	0.58
46:QB:49:VAL:HG21	46:QB:241:ARG:HG2	1.86	0.58
46:QL:272:PRO:HD2	46:QL:361:LEU:HD21	1.86	0.58
45:RC:404:PHE:HA	45:RC:407:TRP:CZ3	2.39	0.58
46:SD:148:GLY:O	46:SD:152:ILE:HG12	2.03	0.58
45:UA:120:ASP:OD1	45:UA:123:ARG:NH1	2.37	0.58
45:UG:88:HIS:HB3	45:UG:91:GLN:HG2	1.86	0.58
46:UJ:107:THR:HG1	46:UJ:108:GLU:CD	2.12	0.58
46:UN:183:TYR:HA	46:UN:385:PHE:HE2	1.69	0.58
46:VD:406:MET:O	46:VD:410:GLU:HG2	2.02	0.58
45:VG:422:ARG:NH1	45:VG:422:ARG:O	2.37	0.58
46:VH:186:THR:HA	46:VH:189:VAL:HG12	1.86	0.58
46:VL:104:GLY:O	46:VL:147:MET:HB3	2.04	0.58
45:WE:338:LYS:HD3	45:WE:340:THR:HG22	1.86	0.58
46:WJ:73:MET:HA	46:WJ:76:VAL:HG12	1.85	0.58
46:WL:380:ARG:NH2	46:WL:383:GLU:OE1	2.37	0.58
45:WM:244:PHE:HB2	45:WM:356:ASN:HD21	1.68	0.58
2:0B:183:LYS:O	2:0B:184:GLU:HG3	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:0V:81:SER:OG	14:0V:84:ASP:OD1	2.21	0.57
8:1H:190:LYS:NZ	45:GG:58:ALA:HB3	2.19	0.57
21:1L:668:GLN:NE2	45:CE:367:ASP:OD1	2.37	0.57
23:1O:159:GLN:HB3	23:1O:163:LYS:HZ2	1.69	0.57
10:1Q:73:LEU:HB2	10:1Q:167:PHE:HB3	1.85	0.57
20:2K:450:LYS:HA	20:2K:453:GLN:HG3	1.85	0.57
23:2O:288:LYS:HZ1	46:VH:360:GLY:HA2	1.67	0.57
25:2R:412:ASP:OD1	25:2R:413:ASN:N	2.36	0.57
12:2T:97:ARG:HH22	45:MG:416:GLY:HA3	1.69	0.57
13:2U:167:ASN:OD1	13:2U:195:GLN:NE2	2.35	0.57
30:3H:199:GLU:OE2	46:AH:245:GLN:NE2	2.36	0.57
25:3R:346:ASP:O	25:3R:349:THR:OG1	2.19	0.57
13:3U:434:ILE:HD12	13:3U:439:GLN:HG3	1.85	0.57
36:5A:65:THR:HG23	36:5A:68:ASP:H	1.69	0.57
37:5F:46:LEU:N	37:5F:48:ARG:HH22	2.01	0.57
39:6F:44:ARG:HB3	46:IF:41:ASP:HB2	1.85	0.57
40:6G:166:PHE:HE2	46:VH:212:PHE:HB3	1.66	0.57
34:7R:404:LEU:HD21	46:DB:77:ARG:HG2	1.84	0.57
46:AB:295:ASP:OD1	46:AB:297:LYS:NZ	2.37	0.57
45:AG:175:PRO:O	45:AG:394:LYS:NZ	2.37	0.57
45:AG:392:ASP:OD2	45:AG:422:ARG:NE	2.37	0.57
45:BE:326:LYS:HZ1	46:BH:220:PRO:HD2	1.67	0.57
45:BK:254:GLU:HG2	46:BN:98:GLY:HA2	1.86	0.57
46:BN:77:ARG:HH12	46:BN:83:GLN:HA	1.69	0.57
46:BN:290:THR:HA	46:BN:293:MET:HG2	1.86	0.57
46:CF:65:LEU:HD22	46:CF:90:PHE:HE1	1.69	0.57
45:CI:346:TRP:CD1	46:CJ:391:ARG:HG3	2.39	0.57
46:CL:321:MET:HB2	45:CM:221:ARG:NH2	2.18	0.57
46:DJ:73:MET:HA	46:DJ:76:VAL:HG12	1.86	0.57
45:DM:108:TYR:O	45:DM:112:LYS:NZ	2.35	0.57
45:EE:108:TYR:O	45:EE:112:LYS:NZ	2.35	0.57
45:FA:73:THR:OG1	46:FB:247:ASN:ND2	2.37	0.57
45:FC:141:VAL:HG11	45:FC:172:TYR:CD1	2.39	0.57
46:FL:326:VAL:O	46:FL:330:MET:HG2	2.04	0.57
45:GA:171:ILE:O	45:GA:171:ILE:HG13	2.04	0.57
46:GD:179:VAL:HG13	46:GD:180:VAL:HG23	1.85	0.57
46:GL:392:LYS:HA	46:GL:395:LEU:HD12	1.85	0.57
45:HC:390:ARG:HG3	45:HC:391:LEU:HD12	1.86	0.57
46:HF:68:LEU:HB3	46:HF:96:GLY:HA2	1.85	0.57
45:HG:258:ASN:HD22	45:HG:352:LYS:HB2	1.69	0.57
46:HH:222:TYR:O	46:HH:226:ASN:ND2	2.23	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:II:326:LYS:NZ	46:IL:212:PHE:HB2	2.18	0.57
45:JA:180:ALA:HB3	45:JA:183:GLU:HG3	1.84	0.57
45:JE:88:HIS:NE2	45:KE:284:GLU:OE2	2.36	0.57
45:JI:181:VAL:N	46:JJ:350:LYS:HZ1	2.02	0.57
45:KM:127:ASP:OD1	45:KM:128:ASN:N	2.37	0.57
46:LB:376:GLU:HB3	46:LB:380:ARG:HH21	1.68	0.57
45:LG:206:ASN:OD1	47:LG:501:GTP:N2	2.35	0.57
46:MD:200:MET:SD	46:MD:268:ILE:HD13	2.44	0.57
46:MF:135:ILE:HG13	46:MF:152:ILE:HD11	1.86	0.57
45:NE:140:SER:HA	45:NE:171:ILE:HB	1.84	0.57
46:NN:318:ARG:HD3	46:NN:358:PRO:HD3	1.85	0.57
45:OA:175:PRO:HB2	45:OA:176:GLN:OE1	2.03	0.57
45:OA:208:ALA:HB2	45:OA:304:LYS:HD2	1.85	0.57
45:OA:223:THR:HG22	46:OB:322:SER:HA	1.85	0.57
46:PJ:19:LYS:HZ1	46:PJ:227:HIS:HB2	1.68	0.57
46:PJ:276:ARG:HA	46:PJ:279:GLN:NE2	2.18	0.57
46:PN:309:ARG:N	46:PN:372:THR:OG1	2.33	0.57
46:PN:319:GLY:HA2	46:PN:357:PRO:HD3	1.85	0.57
46:QB:303:ALA:HB2	46:QB:377:MET:HE1	1.86	0.57
45:QC:192:HIS:ND1	45:QC:424:ASP:OD2	2.32	0.57
46:QH:99:ASN:HA	46:QH:142:GLY:H	1.69	0.57
45:RE:346:TRP:CD1	46:RF:391:ARG:HG3	2.39	0.57
45:RG:12:GLY:HA2	45:RG:15:GLN:HE21	1.69	0.57
45:RM:27:GLU:HB3	45:RM:361:THR:HG21	1.86	0.57
45:RM:187:SER:O	45:RM:191:THR:HG23	2.04	0.57
46:SH:222:TYR:O	46:SH:226:ASN:ND2	2.29	0.57
46:TB:212:PHE:CE1	46:TB:220:PRO:HG2	2.39	0.57
46:TH:240:LEU:HD21	46:TH:249:ASP:HA	1.86	0.57
45:TI:188:ILE:HD12	45:TI:425:LEU:HD11	1.85	0.57
46:TJ:268:ILE:N	46:TJ:299:MET:HE1	2.19	0.57
45:TK:141:VAL:HG11	45:TK:172:TYR:CD1	2.39	0.57
46:UJ:320:ARG:O	46:UJ:321:MET:HE2	2.04	0.57
45:VE:76:ASP:OD2	46:VF:46:ARG:NH2	2.37	0.57
45:VM:284:GLU:HG3	45:VM:286:LEU:HD22	1.86	0.57
46:VN:236:VAL:HG13	46:VN:237:THR:HG23	1.86	0.57
45:WA:210:TYR:OH	46:WB:323:THR:OG1	2.19	0.57
46:WL:282:ARG:HE	46:WL:288:GLU:HG3	1.68	0.57
46:WN:207:LEU:HB3	46:WN:225:LEU:HD22	1.85	0.57
4:0D:163:ASP:OD1	4:0D:164:PRO:HD2	2.04	0.57
8:1H:116:LYS:HA	8:1H:116:LYS:HE3	1.85	0.57
19:1J:155:MET:HE1	46:IH:228:LEU:HA	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:1J:239:PHE:CD2	19:1J:240:LYS:HE3	2.40	0.57
13:1U:104:LEU:O	13:1U:122:GLY:N	2.37	0.57
16:2B:108:LEU:HD22	16:2B:116:LEU:HD13	1.86	0.57
27:2C:25:LYS:NZ	45:LI:362:VAL:O	2.37	0.57
21:3L:64:ASP:HA	21:3L:67:ARG:HG2	1.85	0.57
13:3U:578:ILE:HD11	13:3U:592:SER:HB2	1.86	0.57
36:5C:77:SER:O	46:NJ:320:ARG:NH2	2.37	0.57
34:7R:357:LYS:NZ	34:7R:368:GLN:O	2.36	0.57
45:AC:108:TYR:HA	45:AC:112:LYS:HE3	1.86	0.57
45:AE:398:MET:HE2	46:AF:346:PRO:HD2	1.86	0.57
46:BD:173:PRO:HD2	46:BD:174:LYS:NZ	2.19	0.57
45:BE:31:GLN:OE1	45:BE:32:PRO:HD2	2.04	0.57
45:BG:331:SER:O	45:BG:335:ILE:HG12	2.04	0.57
46:BH:222:TYR:O	46:BH:226:ASN:ND2	2.24	0.57
45:CA:325:PRO:HG2	46:CB:222:TYR:HE2	1.69	0.57
46:CF:326:VAL:O	46:CF:330:MET:HG2	2.04	0.57
46:CJ:232:ALA:HB1	46:CJ:268:ILE:HD12	1.86	0.57
45:CK:231:ILE:O	45:CK:235:ILE:HG12	2.04	0.57
46:DH:309:ARG:NH2	46:DH:426:GLN:O	2.28	0.57
46:EF:379:LYS:HD3	46:EF:419:VAL:HG11	1.86	0.57
46:EH:107:THR:HG1	46:EH:108:GLU:CD	2.12	0.57
46:FD:215:LEU:HD21	46:FD:273:LEU:HD12	1.84	0.57
46:FD:276:ARG:HA	46:FD:279:GLN:HG3	1.84	0.57
45:GA:179:THR:HG22	46:GB:350:LYS:NZ	2.19	0.57
46:GD:97:ALA:HB3	46:GD:143:THR:HB	1.85	0.57
45:GI:210:TYR:HB3	46:GJ:324:LYS:NZ	2.19	0.57
46:HD:148:GLY:O	46:HD:152:ILE:HG12	2.04	0.57
45:HM:141:VAL:HG22	45:HM:187:SER:HA	1.85	0.57
46:ID:317:PHE:HD1	46:ID:365:VAL:HG22	1.69	0.57
46:IH:139:LEU:HD13	46:IH:168:SER:HB3	1.85	0.57
45:II:241:SER:HA	45:II:356:ASN:HD21	1.69	0.57
45:IM:226:ASN:ND2	45:IM:367:ASP:OD2	2.36	0.57
45:JK:251:ASP:OD1	45:JK:252:ILE:N	2.35	0.57
46:JL:70:PRO:O	46:JL:74:ASP:HB2	2.05	0.57
46:KF:130:LEU:HD22	46:KF:162:ARG:HG2	1.85	0.57
45:KK:147:SER:HB2	45:KK:190:SER:HB3	1.85	0.57
45:KM:318:MET:HB2	45:KM:376:CYS:SG	2.44	0.57
45:LA:269:LEU:HB2	45:LA:301:MET:HE2	1.86	0.57
46:LB:152:ILE:HD13	46:LB:164:MET:HE1	1.86	0.57
45:NC:399:TYR:O	45:NC:402:ARG:NH1	2.36	0.57
46:NF:179:VAL:HG13	46:NF:180:VAL:HG13	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NG:279:GLU:HG3	45:NG:280:LYS:H	1.69	0.57
46:NL:318:ARG:HD3	46:NL:358:PRO:HG3	1.86	0.57
46:NN:329:GLN:HA	46:NN:332:ASN:ND2	2.19	0.57
46:OD:140:GLY:HA2	46:OD:181:GLU:OE2	2.04	0.57
45:OE:221:ARG:NH2	46:OF:322:SER:H	2.02	0.57
45:OM:9:VAL:HG23	45:OM:139:ASN:HD22	1.69	0.57
45:PC:178:SER:OG	46:PD:347:ASN:OD1	2.17	0.57
46:PD:268:ILE:HG13	46:PD:300:MET:HG3	1.86	0.57
45:PI:127:ASP:OD1	45:QI:293:ASN:ND2	2.36	0.57
46:PN:344:TRP:HB3	46:PN:430:ALA:HB2	1.85	0.57
45:QA:199:ASP:OD1	45:QA:200:VAL:N	2.37	0.57
46:QF:66:MET:SD	46:QF:147:MET:HE3	2.43	0.57
45:QG:429:GLU:O	45:QG:433:GLU:HG2	2.03	0.57
45:QK:269:LEU:HD12	45:QK:303:ALA:HB3	1.86	0.57
45:QM:79:ARG:HA	45:QM:87:PHE:HZ	1.69	0.57
45:RG:430:LYS:NZ	45:RG:434:GLU:OE2	2.36	0.57
45:RI:68:LEU:HD23	45:RI:93:ILE:HB	1.85	0.57
46:RJ:183:TYR:HA	46:RJ:385:PHE:HE1	1.69	0.57
45:SA:206:ASN:OD1	47:SA:501:GTP:N2	2.38	0.57
45:SE:75:ILE:HD13	45:SE:94:SER:HB2	1.84	0.57
45:SE:171:ILE:HG13	45:SE:204:LEU:HB2	1.86	0.57
45:SE:402:ARG:HH22	45:SE:406:HIS:HB3	1.70	0.57
45:SG:329:ASN:HA	45:SG:332:ILE:HG12	1.84	0.57
46:TB:221:THR:HG23	46:TB:224:ASP:H	1.69	0.57
46:TH:97:ALA:C	46:TH:103:LYS:HZ1	2.12	0.57
46:TL:324:LYS:HB2	45:TM:221:ARG:HH12	1.68	0.57
45:TM:213:CYS:HA	45:TM:217:LEU:HD13	1.85	0.57
46:UF:331:LEU:HD11	45:UG:177:VAL:HG22	1.86	0.57
45:UG:26:LEU:HD21	45:UG:363:VAL:HG12	1.86	0.57
46:UH:67:ASP:HB3	46:UH:73:MET:HE1	1.86	0.57
46:UL:128:ASP:OD1	46:UL:129:CYS:N	2.37	0.57
46:VH:344:TRP:HB3	46:VH:430:ALA:HB2	1.85	0.57
45:VK:352:LYS:NZ	46:VN:178:THR:HG23	2.20	0.57
46:VL:389:PHE:HZ	46:VL:405:GLU:HG2	1.68	0.57
46:VN:410:GLU:O	46:VN:414:ASN:ND2	2.37	0.57
45:WC:212:ILE:HD13	45:WC:215:ARG:HH12	1.69	0.57
46:WJ:73:MET:HE2	46:WJ:92:PHE:HB3	1.86	0.57
46:WJ:153:SER:HB3	46:WJ:154:LYS:HZ2	1.70	0.57
46:WN:293:MET:HG2	46:WN:365:VAL:HG11	1.86	0.57
2:0B:241:LEU:CD1	46:JL:227:HIS:CE1	2.87	0.57
4:0D:124:ASN:O	4:0D:128:THR:HG23	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:0E:80:ASP:O	5:0E:83:GLU:HG3	2.04	0.57
10:0Q:15:TYR:CE1	10:0Q:17:ILE:HB	2.39	0.57
16:1B:10:ILE:O	16:1B:14:ILE:HG12	2.04	0.57
13:1U:513:LYS:HD3	13:1U:526:ARG:HH12	1.69	0.57
14:1V:113:ARG:HE	45:LI:196:GLU:HA	1.69	0.57
27:2C:66:LEU:HB2	27:2C:71:TYR:CE1	2.39	0.57
23:2O:471:LEU:HA	23:2O:487:LEU:HD22	1.86	0.57
31:3I:216:ARG:HE	31:3I:217:ASN:N	2.01	0.57
23:3O:345:GLU:HA	23:3O:348:GLU:HG2	1.85	0.57
25:3R:387:ASP:HB3	25:3R:390:ASP:HB3	1.85	0.57
12:3T:62:VAL:HG12	12:3T:146:MET:HB3	1.85	0.57
12:3T:264:LYS:NZ	13:3U:27:ASN:HB2	2.19	0.57
10:4Q:14:LEU:HB2	10:4Q:25:TRP:HE1	1.68	0.57
37:5F:129:ARG:HE	37:5F:130:PRO:HD2	1.70	0.57
37:5F:157:ARG:NH2	46:NH:36:TYR:O	2.37	0.57
34:5R:492:ILE:HD11	34:5R:507:ARG:HA	1.86	0.57
34:7R:491:GLN:NE2	34:7R:583:GLN:OE1	2.32	0.57
46:AB:222:TYR:O	46:AB:226:ASN:ND2	2.28	0.57
45:AM:207:GLU:HB2	45:AM:304:LYS:HG3	1.86	0.57
45:BC:11:GLN:HE21	45:BC:15:GLN:HE22	1.53	0.57
46:CB:5:VAL:HG12	46:CB:62:ARG:HD3	1.86	0.57
46:CD:293:MET:HG2	46:CD:365:VAL:HG11	1.86	0.57
46:CD:309:ARG:NH1	46:CD:339:SER:O	2.37	0.57
46:CF:257:LEU:HD11	46:CF:314:SER:HB2	1.87	0.57
46:CF:330:MET:HE2	46:CF:349:ILE:HG21	1.87	0.57
45:CG:133:GLN:HB3	45:CG:252:ILE:HG21	1.85	0.57
46:DB:88:ASP:OD2	46:DB:89:ASN:N	2.38	0.57
46:EH:213:ARG:HE	46:EH:297:LYS:HZ2	1.52	0.57
45:EM:317:MET:HE1	45:EM:351:PHE:HD2	1.69	0.57
46:EN:86:ARG:HD2	46:EN:87:PRO:HD2	1.86	0.57
46:FL:266:PHE:HE1	46:FL:370:ASN:ND2	2.02	0.57
45:FM:275:ILE:HA	45:FM:368:LEU:HD11	1.87	0.57
45:GC:117:LEU:O	45:GC:121:ARG:HG2	2.05	0.57
46:GF:70:PRO:HA	46:GF:73:MET:HE2	1.86	0.57
45:GG:64:ARG:NH1	45:GG:129:CYS:SG	2.77	0.57
45:GG:288:VAL:HA	45:GG:291:ILE:HG12	1.85	0.57
45:HA:101:ASN:HA	45:HA:144:GLY:H	1.69	0.57
45:HE:70:LEU:HD13	45:HE:95:GLY:HA3	1.86	0.57
46:HF:133:PHE:HB2	46:HF:164:MET:SD	2.44	0.57
46:HF:205:GLU:OE2	46:HF:302:ALA:HB2	2.04	0.57
46:HN:8:GLN:HE21	46:HN:65:LEU:HG	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IC:332:ILE:HD11	45:IC:351:PHE:CG	2.38	0.57
45:JA:244:PHE:HB2	45:JA:356:ASN:HD21	1.68	0.57
46:JF:187:LEU:HD21	46:JF:408:PHE:HE2	1.69	0.57
45:KA:271:SER:HB2	45:KA:301:MET:SD	2.44	0.57
46:KD:31:ASP:HB3	46:KD:37:HIS:CD2	2.39	0.57
46:KD:286:VAL:HG21	46:KD:325:GLU:HG3	1.86	0.57
45:KG:206:ASN:OD1	47:KG:501:GTP:N2	2.37	0.57
46:LH:334:GLN:NE2	46:LH:348:ASN:OD1	2.37	0.57
45:MA:6:SER:OG	45:MA:8:HIS:NE2	2.34	0.57
45:MC:395:PHE:CD2	45:MC:422:ARG:HD3	2.39	0.57
45:MG:408:TYR:HB3	45:MG:413:MET:HE2	1.85	0.57
45:MM:231:ILE:O	45:MM:235:ILE:HD12	2.03	0.57
46:NB:15:GLN:NE2	49:NB:501:GDP:O6	2.37	0.57
45:NE:322:ASP:OD1	45:NE:373:ARG:NH1	2.37	0.57
46:NH:324:LYS:HG3	46:NH:325:GLU:N	2.19	0.57
46:NJ:269:GLY:HA2	46:NJ:300:MET:HE2	1.87	0.57
46:OB:256:ASN:ND2	46:OB:350:LYS:HB2	2.18	0.57
45:OC:60:LYS:NZ	45:OC:61:HIS:O	2.37	0.57
46:QB:226:ASN:HD21	49:QB:501:GDP:HN1	1.53	0.57
46:QD:5:VAL:HG12	46:QD:62:ARG:HD3	1.86	0.57
46:QD:344:TRP:HB3	46:QD:430:ALA:HB2	1.86	0.57
45:QE:268:MET:HG3	45:QE:380:ASN:HB3	1.85	0.57
45:QE:329:ASN:HA	45:QE:332:ILE:HG12	1.85	0.57
46:QH:181:GLU:HB3	46:QH:182:PRO:HD3	1.84	0.57
46:QL:66:MET:HE2	46:QL:147:MET:HE3	1.86	0.57
46:RD:167:PHE:CE2	46:RD:233:MET:HB2	2.37	0.57
45:SE:271:SER:HA	45:SE:302:MET:HG3	1.86	0.57
45:SI:242:LEU:HD11	45:SI:252:ILE:HG12	1.86	0.57
46:SN:67:ASP:O	46:SN:92:PHE:HA	2.05	0.57
46:TD:209:ASP:OD1	46:TD:213:ARG:NE	2.32	0.57
46:TF:22:GLU:HG2	46:TF:81:PHE:CD2	2.40	0.57
46:TF:318:ARG:HD3	46:TF:358:PRO:HD3	1.87	0.57
45:TG:171:ILE:HG13	45:TG:204:LEU:HB2	1.85	0.57
46:UH:12:CYS:O	46:UH:16:ILE:HD12	2.05	0.57
46:UN:48:ASN:O	46:UN:62:ARG:NH2	2.38	0.57
45:VC:284:GLU:HG2	45:VC:286:LEU:HD22	1.86	0.57
46:VD:183:TYR:HE2	46:VD:394:PHE:HB2	1.69	0.57
45:WC:70:LEU:O	46:WD:2:ARG:NH2	2.37	0.57
46:WL:164:MET:HB3	46:WL:197:ASP:H	1.67	0.57
46:WL:285:THR:HG23	46:WL:287:PRO:HD2	1.85	0.57
45:WM:391:LEU:HD22	45:WM:394:LYS:HZ1	1.67	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DC:294:SER:HA	45:DC:297:GLU:OE1	2.04	0.57
45:DC:430:LYS:HA	45:DC:433:GLU:CD	2.29	0.57
4:0D:86:ALA:O	4:0D:89:THR:OG1	2.19	0.57
7:0G:173:ASP:OD2	7:0G:175:THR:OG1	2.19	0.57
18:1I:167:ARG:HH22	45:KE:357:TYR:HB3	1.69	0.57
20:1K:146:LEU:H	20:1K:146:LEU:HD23	1.69	0.57
20:1K:183:TYR:OH	46:GD:320:ARG:NH1	2.32	0.57
20:1K:187:TYR:OH	46:GD:279:GLN:NE2	2.31	0.57
21:1L:425:SER:OG	45:CG:279:GLU:OE1	2.21	0.57
23:1O:152:CYS:O	23:1O:156:ARG:HG3	2.05	0.57
5:2E:131:LYS:NZ	5:2E:137:MET:HB2	2.19	0.57
30:2H:207:LYS:NZ	30:2H:209:ARG:HD2	2.19	0.57
31:2I:134:LYS:NZ	46:GD:328:GLU:HG3	2.17	0.57
21:2L:901:LYS:HD2	46:CJ:320:ARG:NH2	2.19	0.57
10:2Q:105:ALA:HB1	10:2Q:123:MET:SD	2.43	0.57
13:2U:448:HIS:CE1	13:2U:468:SER:HB2	2.39	0.57
32:3D:41:LEU:HD11	32:3D:120:THR:HG23	1.85	0.57
32:3D:223:ALA:HA	32:3D:226:LYS:NZ	2.19	0.57
12:3T:122:ARG:H	12:3T:199:ARG:HB3	1.69	0.57
13:3U:326:ILE:HD11	13:3U:593:VAL:HG11	1.85	0.57
27:4C:143:SER:HB3	27:4C:146:ARG:HB2	1.86	0.57
39:6F:62:GLN:N	45:IE:84:ARG:HH22	2.03	0.57
45:AA:340:THR:HG23	45:AA:341:ILE:HG13	1.86	0.57
46:AL:204:ASN:O	46:AL:208:TYR:HD2	1.87	0.57
46:AN:5:VAL:HG12	46:AN:62:ARG:HD3	1.86	0.57
45:BA:387:VAL:O	45:BA:390:ARG:HG2	2.04	0.57
45:BE:398:MET:HE2	46:BF:346:PRO:HD2	1.85	0.57
46:BL:209:ASP:OD1	46:BL:213:ARG:NH1	2.38	0.57
46:BL:293:MET:HE1	46:BL:315:ALA:HB2	1.87	0.57
46:CF:318:ARG:HB3	46:CF:357:PRO:HA	1.85	0.57
45:CK:372:MET:HA	45:CK:372:MET:HE2	1.86	0.57
46:DJ:317:PHE:HE2	46:DJ:326:VAL:HG13	1.68	0.57
46:DL:331:LEU:HD22	45:DM:177:VAL:HG22	1.86	0.57
45:EC:40:LYS:NZ	45:EC:43:GLY:H	2.02	0.57
45:EC:88:HIS:NE2	45:FA:284:GLU:OE1	2.35	0.57
45:EG:292:THR:HG21	45:EG:331:SER:HB2	1.85	0.57
46:EJ:148:GLY:O	46:EJ:152:ILE:HG12	2.05	0.57
45:FC:401:LYS:HZ1	46:FD:344:TRP:CD1	2.22	0.57
45:FK:317:MET:HE1	45:FK:351:PHE:HD2	1.69	0.57
46:GF:325:GLU:HA	46:GF:328:GLU:HG3	1.86	0.57
46:GN:236:VAL:HG23	46:GN:237:THR:HG23	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:HB:67:ASP:O	46:HB:92:PHE:HA	2.04	0.57
46:HD:3:GLU:HG2	46:HD:49:VAL:HA	1.84	0.57
46:HH:99:ASN:HA	46:HH:142:GLY:H	1.69	0.57
45:IA:226:ASN:ND2	45:IA:367:ASP:OD2	2.37	0.57
46:IB:167:PHE:CZ	46:IB:233:MET:HG3	2.39	0.57
45:IC:69:ASP:OD1	45:IC:70:LEU:N	2.37	0.57
45:IK:313:MET:HE2	45:IK:382:THR:HG22	1.86	0.57
46:IL:204:ASN:HA	46:IL:207:LEU:HD12	1.86	0.57
45:IM:127:ASP:OD1	45:IM:128:ASN:N	2.38	0.57
45:IM:284:GLU:HG3	45:IM:286:LEU:HD22	1.87	0.57
45:JE:287:SER:N	45:JE:290:GLU:OE1	2.33	0.57
46:JH:187:LEU:HD21	46:JH:408:PHE:HE1	1.68	0.57
45:KI:109:THR:O	45:KI:112:LYS:NZ	2.37	0.57
45:LE:227:LEU:O	45:LE:231:ILE:HG12	2.04	0.57
45:MG:385:ALA:HB2	45:MG:432:TYR:HD1	1.69	0.57
46:MH:106:TYR:HE2	46:MH:403:MET:HB3	1.69	0.57
46:MH:375:GLN:HG3	46:MH:419:VAL:HG13	1.86	0.57
45:MI:109:THR:O	45:MI:112:LYS:NZ	2.38	0.57
45:MI:282:TYR:HE1	45:MI:371:VAL:HG22	1.69	0.57
45:MI:326:LYS:HD2	46:ML:220:PRO:HD2	1.87	0.57
46:NB:66:MET:HE2	46:NB:116:VAL:HG21	1.86	0.57
46:NB:105:HIS:CE1	46:NB:150:LEU:HD12	2.40	0.57
46:NB:209:ASP:O	46:NB:213:ARG:HG2	2.04	0.57
46:ND:116:VAL:HA	46:ND:119:VAL:HG12	1.87	0.57
45:NE:276:ILE:HG13	45:NE:283:HIS:HE1	1.69	0.57
46:NF:103:LYS:NZ	46:NF:401:GLU:OE2	2.35	0.57
46:OB:97:ALA:HA	46:OB:103:LYS:HD2	1.85	0.57
46:OD:405:GLU:HA	46:OD:408:PHE:HD2	1.69	0.57
45:OK:50:ASN:O	45:OK:64:ARG:NH1	2.38	0.57
45:OK:101:ASN:HA	45:OK:144:GLY:H	1.68	0.57
45:OK:141:VAL:HG11	45:OK:172:TYR:CD1	2.39	0.57
46:OL:113:ILE:HG21	46:OL:150:LEU:HD22	1.86	0.57
46:OL:318:ARG:HG2	46:OL:358:PRO:HD3	1.86	0.57
46:PF:326:VAL:O	46:PF:330:MET:HG2	2.04	0.57
45:PG:324:VAL:HG12	45:PG:326:LYS:HG2	1.86	0.57
45:QE:242:LEU:HD11	45:QE:252:ILE:HG12	1.87	0.57
46:QF:83:GLN:O	46:RF:281:TYR:OH	2.23	0.57
45:QG:108:TYR:O	45:QG:112:LYS:NZ	2.38	0.57
46:QL:74:ASP:OD1	46:QL:77:ARG:NH2	2.34	0.57
46:RF:63:ALA:O	46:RF:89:ASN:ND2	2.36	0.57
45:RG:296:PHE:HE1	45:RG:377:MET:HG3	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RH:153:SER:HA	46:RH:195:ASN:ND2	2.19	0.57
46:RJ:406:MET:HE3	46:RJ:406:MET:HA	1.86	0.57
46:SB:28:HIS:CE1	46:SB:241:ARG:HH21	2.21	0.57
46:SB:350:LYS:HA	45:SC:179:THR:O	2.03	0.57
46:SD:6:HIS:HE1	46:SD:8:GLN:NE2	2.03	0.57
46:SD:313:ALA:HB1	46:SD:367:PHE:HE1	1.69	0.57
45:SG:332:ILE:HA	45:SG:335:ILE:HG12	1.86	0.57
45:SK:169:PHE:HB3	45:SK:204:LEU:HD11	1.85	0.57
45:TE:257:THR:HG21	46:TF:100:ASN:HD21	1.69	0.57
46:TL:325:GLU:H	45:TM:221:ARG:HH22	1.49	0.57
46:UB:375:GLN:HE22	46:UB:419:VAL:HA	1.69	0.57
46:UJ:167:PHE:HA	46:UJ:200:MET:HB2	1.86	0.57
46:VB:245:GLN:CD	46:VB:245:GLN:H	2.12	0.57
46:VD:237:THR:HG23	46:VD:241:ARG:HE	1.69	0.57
45:VE:11:GLN:NE2	47:VE:501:GTP:O3A	2.36	0.57
46:VF:200:MET:HG3	46:VF:266:PHE:HB2	1.86	0.57
46:VF:290:THR:HA	46:VF:293:MET:HG3	1.84	0.57
46:VH:254:ALA:O	46:VH:258:ILE:HG22	2.04	0.57
45:VI:88:HIS:CE1	45:WI:280:LYS:HE2	2.40	0.57
46:VJ:289:LEU:HD11	46:VJ:363:MET:HE3	1.86	0.57
46:WB:105:HIS:CD2	46:WB:150:LEU:HD23	2.39	0.57
46:WD:294:PHE:CD2	46:WD:333:VAL:HG11	2.40	0.57
45:WK:286:LEU:O	45:WK:373:ARG:NH2	2.38	0.57
45:CE:345:ASP:OD1	45:CE:346:TRP:N	2.37	0.57
6:0F:161:THR:O	6:0F:164:GLU:HG2	2.04	0.57
9:0N:15:ARG:NH1	46:IN:45:GLU:OE2	2.36	0.57
9:1N:249:LEU:HD23	46:KJ:74:ASP:HA	1.87	0.57
9:1N:428:HIS:CG	9:1N:429:PRO:HD2	2.40	0.57
23:1O:57:GLU:HG3	23:1O:61:MET:HE1	1.85	0.57
12:1T:218:PHE:HA	12:1T:221:ARG:HG2	1.87	0.57
12:1T:229:THR:OG1	45:MC:431:ASP:OD2	2.22	0.57
14:1V:5:SER:HB2	13:2U:374:GLY:HA3	1.86	0.57
31:2I:139:ARG:CZ	46:GD:340:TYR:HB2	2.35	0.57
23:2O:423:HIS:NE2	45:VA:370:LYS:O	2.31	0.57
16:3B:265:ASP:O	16:3B:268:ILE:HG22	2.04	0.57
25:3R:104:ALA:HB2	25:3R:187:ILE:HG22	1.86	0.57
14:3V:122:LYS:HE2	46:LD:390:ARG:HH22	1.70	0.57
14:3V:192:GLU:O	14:3V:196:GLN:HG2	2.05	0.57
10:4Q:113:ARG:NH2	45:AI:196:GLU:OE1	2.36	0.57
36:5A:30:LYS:H	36:5A:36:ARG:HH21	1.52	0.57
36:5B:45:TYR:CZ	36:5B:56:ILE:HG13	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:5R:101:GLU:OE1	46:BL:280:GLN:NE2	2.38	0.57
34:5R:319:PRO:HG3	46:CJ:228:LEU:HD22	1.87	0.57
39:6F:68:TRP:H	39:6F:68:TRP:CD1	2.22	0.57
46:AL:232:ALA:HB1	46:AL:268:ILE:HD12	1.86	0.57
46:AN:293:MET:HE3	46:AN:367:PHE:HB2	1.87	0.57
45:BA:331:SER:O	45:BA:335:ILE:HG12	2.04	0.57
45:BC:221:ARG:HD2	46:BD:324:LYS:NZ	2.17	0.57
46:BD:68:LEU:HB3	46:BD:96:GLY:HA2	1.85	0.57
46:BH:87:PRO:HA	46:BH:90:PHE:HD2	1.70	0.57
45:CG:296:PHE:CE2	45:CG:335:ILE:HD13	2.40	0.57
45:CG:342:GLN:HA	45:CG:342:GLN:HE21	1.69	0.57
46:CJ:245:GLN:O	45:CK:11:GLN:NE2	2.36	0.57
46:DJ:187:LEU:HD21	46:DJ:408:PHE:HE2	1.70	0.57
46:DJ:258:ILE:HG13	45:DK:407:TRP:HE1	1.69	0.57
45:DK:265:ILE:HD11	45:DK:435:VAL:HG21	1.87	0.57
46:DL:316:LEU:HD13	46:DL:352:SER:HB2	1.85	0.57
46:EB:248:SER:HA	46:EB:252:LYS:HD2	1.86	0.57
45:EC:239:THR:HG23	45:EC:243:ARG:HH21	1.70	0.57
46:ED:321:MET:SD	46:ED:363:MET:HG3	2.44	0.57
45:EG:260:VAL:HG13	46:EH:397:TRP:HZ2	1.70	0.57
46:EJ:328:GLU:OE1	46:EJ:329:GLN:HG2	2.04	0.57
45:EK:36:MET:HA	45:EK:36:MET:HE3	1.85	0.57
46:EN:139:LEU:HD22	46:EN:170:VAL:HG12	1.86	0.57
45:FE:98:ASP:O	45:FE:105:ARG:NH1	2.37	0.57
46:FF:95:THR:OG1	46:FF:108:GLU:OE2	2.23	0.57
45:GA:172:TYR:CE2	45:GA:203:MET:HG3	2.40	0.57
46:GH:164:MET:HB3	46:GH:197:ASP:H	1.69	0.57
46:HB:164:MET:HB2	46:HB:197:ASP:H	1.68	0.57
46:HD:70:PRO:HA	46:HD:73:MET:HE2	1.86	0.57
45:HE:322:ASP:OD1	45:HE:373:ARG:NH1	2.37	0.57
45:HG:207:GLU:OE1	45:HG:304:LYS:NZ	2.23	0.57
46:HL:260:PHE:HB2	46:HL:263:LEU:HD13	1.86	0.57
45:IC:207:GLU:OE1	45:IC:207:GLU:N	2.38	0.57
45:IG:72:PRO:HD2	46:IH:2:ARG:HH21	1.69	0.57
45:IM:89:PRO:HD3	46:JN:281:TYR:CE2	2.40	0.57
46:IN:362:LYS:O	46:IN:363:MET:HE2	2.04	0.57
46:JD:249:ASP:OD1	46:JD:250:LEU:N	2.31	0.57
46:KH:67:ASP:OD1	46:KH:68:LEU:N	2.37	0.57
46:KL:268:ILE:HG22	46:KL:368:VAL:HG22	1.87	0.57
45:KM:271:SER:HB3	45:KM:377:MET:HB3	1.87	0.57
45:LA:11:GLN:HG3	45:LA:74:VAL:HG11	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LB:202:ILE:HD11	46:LB:268:ILE:HD11	1.85	0.57
45:LC:399:TYR:O	45:LC:402:ARG:NH1	2.37	0.57
45:LE:210:TYR:HE1	45:LE:227:LEU:HD11	1.70	0.57
46:LH:294:PHE:HE2	46:LH:333:VAL:HG11	1.69	0.57
46:LJ:192:LEU:HD21	46:LJ:199:CYS:SG	2.44	0.57
46:MB:282:ARG:NH2	46:MB:292:GLN:OE1	2.31	0.57
46:MH:54:ALA:HB3	46:MH:58:ARG:HG2	1.86	0.57
46:ML:371:SER:O	46:ML:422:TYR:OH	2.17	0.57
45:NE:19:ALA:O	45:NE:22:GLU:HG2	2.05	0.57
46:NJ:330:MET:HA	46:NJ:333:VAL:HG12	1.87	0.57
45:NM:315:CYS:SG	45:NM:317:MET:HE3	2.45	0.57
45:NM:426:ALA:O	45:NM:430:LYS:HG2	2.05	0.57
45:OG:55:GLU:HG3	45:OG:57:GLY:H	1.68	0.57
45:OM:96:LYS:HG2	46:ON:1:MET:HE2	1.86	0.57
45:OM:207:GLU:HA	45:OM:210:TYR:HB2	1.86	0.57
46:PD:68:LEU:HD12	46:PD:93:GLY:HA3	1.87	0.57
47:PI:501:GTP:O1G	46:PJ:252:LYS:NZ	2.38	0.57
46:PN:73:MET:HA	46:PN:76:VAL:HG12	1.86	0.57
45:RA:328:VAL:HG11	45:RA:353:VAL:HG21	1.87	0.57
45:RC:315:CYS:HB3	45:RC:377:MET:HE1	1.85	0.57
45:RG:280:LYS:HZ2	45:RG:283:HIS:HB2	1.70	0.57
46:RN:67:ASP:O	46:RN:92:PHE:HA	2.04	0.57
46:SB:91:VAL:HG21	46:SB:116:VAL:HB	1.85	0.57
46:SD:143:THR:O	46:SD:147:MET:HG2	2.05	0.57
45:SG:215:ARG:NH2	45:SG:300:ASN:OD1	2.37	0.57
45:SK:30:ILE:HD11	45:SK:34:GLY:C	2.30	0.57
46:SN:135:ILE:HG13	46:SN:152:ILE:HD11	1.87	0.57
45:TG:287:SER:HA	45:TG:373:ARG:HH22	1.69	0.57
46:TH:73:MET:HE1	46:TH:92:PHE:CD1	2.40	0.57
46:TN:148:GLY:O	46:TN:152:ILE:HG12	2.04	0.57
46:UD:207:LEU:HB3	46:UD:225:LEU:HD22	1.87	0.57
46:VD:67:ASP:O	46:VD:92:PHE:HA	2.04	0.57
45:VI:70:LEU:HD13	45:VI:95:GLY:HA3	1.84	0.57
45:VM:76:ASP:OD1	45:VM:79:ARG:NH2	2.33	0.57
45:WA:191:THR:O	45:WA:195:LEU:HG	2.05	0.57
46:WD:97:ALA:HB3	46:WD:143:THR:HG22	1.86	0.57
45:WE:211:ASP:O	45:WE:215:ARG:HG3	2.05	0.57
45:WI:51:THR:HG21	45:WI:243:ARG:HB3	1.86	0.57
46:WJ:207:LEU:HB3	46:WJ:225:LEU:HD22	1.86	0.57
46:WN:173:PRO:HD2	46:WN:380:ARG:CZ	2.34	0.57
4:0D:171:LEU:HD23	45:EC:79:ARG:NH2	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:0F:14:LYS:HG2	6:0F:15:THR:HG23	1.86	0.57
13:0U:287:THR:OG1	13:0U:291:THR:O	2.23	0.57
3:1C:96:LYS:NZ	45:EM:364:PRO:HB3	2.19	0.57
19:1J:171:TYR:CE2	46:HH:53:GLU:HB3	2.40	0.57
20:1K:158:THR:HG22	45:GC:370:LYS:NZ	2.20	0.57
21:1L:130:GLN:HG2	21:1L:131:ASN:N	2.20	0.57
9:1N:10:TYR:H	9:1N:16:ILE:HD11	1.69	0.57
23:1O:190:LYS:O	23:1O:194:GLU:HG2	2.04	0.57
24:1P:313:GLU:HA	24:1P:316:ARG:HD2	1.85	0.57
12:1T:41:PHE:CE1	12:1T:167:ALA:HB1	2.39	0.57
16:2B:17:GLN:NE2	16:2B:60:LEU:HD21	2.19	0.57
21:2L:888:VAL:HG22	21:2L:889:SER:H	1.68	0.57
12:2T:252:ARG:HH22	12:2T:255:SER:HG	1.50	0.57
14:2V:119:ILE:HG13	14:2V:120:GLU:N	2.19	0.57
1:3A:112:LEU:HD11	25:3R:166:TYR:CZ	2.38	0.57
34:5R:182:ASP:OD1	34:5R:183:CYS:N	2.37	0.57
35:5S:186:ILE:HG13	35:5S:187:LEU:HD22	1.86	0.57
34:7R:469:LYS:HE2	34:7R:472:GLU:HA	1.87	0.57
46:AD:8:GLN:HE21	46:AD:65:LEU:HD11	1.69	0.57
46:AD:309:ARG:NH2	46:AD:426:GLN:O	2.27	0.57
45:AI:69:ASP:OD1	45:AI:70:LEU:N	2.38	0.57
45:AK:73:THR:HA	46:AL:46:ARG:NH2	2.19	0.57
46:BB:135:ILE:HG13	46:BB:152:ILE:HD11	1.85	0.57
46:BD:207:LEU:HB3	46:BD:225:LEU:HD22	1.87	0.57
45:BM:11:GLN:NE2	46:BN:245:GLN:O	2.37	0.57
45:CG:296:PHE:HE2	45:CG:335:ILE:HG21	1.69	0.57
46:CN:330:MET:SD	46:CN:351:SER:OG	2.61	0.57
46:DJ:187:LEU:HD21	46:DJ:408:PHE:CE2	2.40	0.57
45:EM:318:MET:HE2	45:EM:376:CYS:HB3	1.86	0.57
46:FB:242:PHE:HB3	46:FB:356:ILE:HD13	1.87	0.57
46:FF:135:ILE:HG13	46:FF:152:ILE:HD11	1.85	0.57
45:FG:294:SER:HA	45:FG:297:GLU:OE1	2.05	0.57
45:FI:11:GLN:HG3	45:FI:74:VAL:HG11	1.85	0.57
45:GE:188:ILE:HD12	45:GE:425:LEU:HD11	1.85	0.57
46:HH:167:PHE:HE2	46:HH:233:MET:HG3	1.70	0.57
46:HJ:3:GLU:OE2	46:HJ:127:CYS:HB2	2.05	0.57
46:HL:97:ALA:HA	46:HL:103:LYS:HD2	1.86	0.57
45:HM:135:PHE:HB2	45:HM:166:LYS:HG2	1.87	0.57
46:HN:257:LEU:HD11	46:HN:314:SER:HB3	1.86	0.57
46:IB:164:MET:SD	46:IB:197:ASP:N	2.72	0.57
45:II:209:ILE:HG13	45:II:302:MET:HG2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JE:127:ASP:OD1	45:JE:128:ASN:N	2.38	0.57
45:JK:287:SER:HA	45:JK:373:ARG:HH21	1.68	0.57
46:KB:334:GLN:HE22	46:KB:348:ASN:H	1.52	0.57
45:KG:326:LYS:NZ	46:KJ:208:TYR:HB3	2.20	0.57
45:LG:285:GLN:NE2	45:LG:290:GLU:OE2	2.37	0.57
45:LM:361:THR:O	45:LM:370:LYS:NZ	2.38	0.57
46:MB:221:THR:HG23	46:MB:224:ASP:H	1.69	0.57
45:MC:264:ARG:NH1	45:MC:424:ASP:OD2	2.37	0.57
46:MD:207:LEU:HB3	46:MD:225:LEU:HD22	1.86	0.57
45:MG:322:ASP:OD1	45:MG:373:ARG:NH1	2.38	0.57
46:MJ:371:SER:O	46:MJ:422:TYR:OH	2.18	0.57
46:NB:222:TYR:O	46:NB:226:ASN:ND2	2.37	0.57
46:ND:8:GLN:HE21	46:ND:65:LEU:HG	1.68	0.57
45:NG:326:LYS:NZ	46:NJ:218:THR:O	2.24	0.57
46:NH:326:VAL:O	46:NH:330:MET:HG2	2.03	0.57
45:PA:292:THR:HG21	45:PA:331:SER:HB3	1.85	0.57
45:PE:350:GLY:HA2	46:PH:179:VAL:HG12	1.86	0.57
45:PI:398:MET:HE1	46:PJ:346:PRO:HD2	1.85	0.57
45:PM:222:PRO:HG2	46:PN:324:LYS:HE2	1.85	0.57
45:QA:1:MET:SD	46:QB:94:GLN:NE2	2.78	0.57
45:QA:19:ALA:O	45:QA:229:ARG:NH2	2.38	0.57
45:QI:11:GLN:OE1	47:QI:501:GTP:N7	2.37	0.57
45:QK:199:ASP:HB3	45:QK:256:GLN:HG3	1.87	0.57
45:RC:15:GLN:NE2	47:RC:501:GTP:O6	2.37	0.57
46:RH:382:ALA:HB2	46:RH:415:MET:HE1	1.87	0.57
46:RL:6:HIS:O	46:RL:63:ALA:HA	2.04	0.57
45:RM:319:TYR:HB3	45:RM:323:VAL:HG11	1.86	0.57
46:SB:1:MET:SD	46:SB:2:ARG:HG2	2.45	0.57
46:SB:116:VAL:HA	46:SB:119:VAL:HG12	1.87	0.57
46:SB:334:GLN:HA	46:SB:341:PHE:CE2	2.37	0.57
45:SG:252:ILE:HA	45:SG:255:PHE:CE2	2.39	0.57
45:SI:254:GLU:HG2	46:SJ:98:GLY:HA2	1.85	0.57
45:SK:79:ARG:C	45:SK:84:ARG:HG2	2.30	0.57
46:TB:135:ILE:HB	46:TB:166:THR:HG22	1.85	0.57
46:TD:21:TRP:HA	46:TD:24:ILE:HG22	1.87	0.57
46:TD:385:PHE:HZ	46:TD:408:PHE:CD2	2.16	0.57
45:UC:196:GLU:OE2	45:UC:197:HIS:NE2	2.38	0.57
45:UI:101:ASN:HA	45:UI:144:GLY:H	1.69	0.57
46:UJ:190:HIS:CD2	46:UJ:411:ALA:HA	2.39	0.57
46:UN:377:MET:HG3	46:UN:380:ARG:HH21	1.69	0.57
45:VC:111:GLY:O	45:VC:115:VAL:HG13	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VC:288:VAL:HG21	45:VC:327:ASP:HB3	1.86	0.57
45:WA:50:ASN:O	45:WA:64:ARG:NH1	2.38	0.57
46:WD:5:VAL:HG12	46:WD:62:ARG:HD3	1.86	0.57
45:WK:311:LYS:HD2	45:WK:343:PHE:C	2.30	0.57
46:WN:420:SER:O	46:WN:424:GLN:HG2	2.05	0.57
13:0U:421:VAL:HG13	13:0U:455:ILE:HD12	1.87	0.57
14:0V:192:GLU:O	14:0V:196:GLN:HG2	2.04	0.57
17:1F:20:TYR:CD2	46:HL:40:SER:HB3	2.40	0.57
20:1K:154:HIS:O	20:1K:157:LYS:HG2	2.04	0.57
9:1N:330:ASN:C	9:1N:334:LYS:HZ2	2.13	0.57
10:1Q:76:LEU:HB3	10:1Q:134:PHE:HB3	1.87	0.57
12:1T:12:LYS:HG3	12:1T:13:GLN:HG3	1.87	0.57
15:1X:121:LYS:NZ	15:1X:125:GLU:OE1	2.38	0.57
31:2I:35:MET:HB2	31:2I:42:THR:HG22	1.87	0.57
23:2O:276:GLN:HA	23:2O:279:VAL:HG22	1.86	0.57
25:2R:156:LYS:HE3	25:2R:166:TYR:HD2	1.69	0.57
14:2V:102:LYS:NZ	14:2V:104:PHE:H	2.02	0.57
12:3T:191:PHE:CD2	12:3T:192:VAL:HG13	2.39	0.57
35:4S:211:ASN:HB3	35:4S:217:LEU:HD11	1.87	0.57
37:5H:56:VAL:HA	46:ON:276:ARG:HH11	1.69	0.57
37:5H:91:ASN:OD1	37:5H:92:GLN:N	2.37	0.57
46:AB:66:MET:HE2	46:AB:116:VAL:HG21	1.86	0.57
45:AC:217:LEU:HB3	45:AC:219:ILE:HG12	1.86	0.57
46:AD:132:GLY:HA2	46:AD:162:ARG:HG3	1.87	0.57
46:AL:67:ASP:O	46:AL:92:PHE:HA	2.04	0.57
46:BF:20:PHE:O	46:BF:24:ILE:HG12	2.05	0.57
46:BN:210:ILE:O	46:BN:214:THR:OG1	2.22	0.57
46:BN:293:MET:SD	46:BN:365:VAL:HG11	2.44	0.57
46:BN:309:ARG:NH2	46:BN:426:GLN:O	2.37	0.57
46:CN:67:ASP:O	46:CN:92:PHE:HA	2.03	0.57
46:DH:257:LEU:HB3	46:DH:266:PHE:HZ	1.70	0.57
45:DI:326:LYS:HE2	46:DJ:220:PRO:HD2	1.85	0.57
46:DL:222:TYR:O	46:DL:226:ASN:ND2	2.24	0.57
46:DN:208:TYR:HE2	46:DN:225:LEU:HD11	1.69	0.57
46:EF:107:THR:HG1	46:EF:108:GLU:CD	2.12	0.57
46:EF:324:LYS:CE	45:EG:222:PRO:HD2	2.34	0.57
45:EI:318:MET:HB2	45:EI:376:CYS:SG	2.44	0.57
46:GN:289:LEU:HD11	46:GN:363:MET:HG3	1.85	0.57
46:HN:260:PHE:HB2	46:HN:263:LEU:HD13	1.85	0.57
45:IM:128:ASN:OD1	45:IM:129:CYS:N	2.37	0.57
46:IN:18:ALA:O	46:IN:22:GLU:HG3	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JJ:399:THR:HA	46:JJ:403:MET:HB2	1.86	0.57
45:KG:70:LEU:HB2	45:KG:98:ASP:HA	1.86	0.57
45:KK:288:VAL:HA	45:KK:291:ILE:HG12	1.87	0.57
46:KL:318:ARG:HH21	46:KL:358:PRO:HG3	1.70	0.57
45:KM:75:ILE:HD13	45:KM:94:SER:HB3	1.85	0.57
45:LC:259:LEU:HB3	45:LC:268:MET:HE1	1.85	0.57
45:LE:31:GLN:NE2	45:LE:35:GLN:O	2.38	0.57
46:LJ:344:TRP:CE3	46:LJ:345:ILE:HG23	2.39	0.57
45:LM:264:ARG:NH2	45:LM:431:ASP:OD2	2.30	0.57
45:ME:324:VAL:HG11	45:ME:326:LYS:HE3	1.86	0.57
46:MF:67:ASP:OD1	46:MF:68:LEU:N	2.36	0.57
46:ML:282:ARG:NH2	46:ML:292:GLN:OE1	2.38	0.57
46:ND:64:ILE:HD13	46:ND:119:VAL:HG13	1.87	0.57
46:ND:167:PHE:CE2	46:ND:233:MET:HE2	2.40	0.57
46:NF:154:LYS:O	46:NF:157:GLU:HG3	2.04	0.57
46:NH:25:SER:OG	46:NH:30:ILE:O	2.22	0.57
45:NK:329:ASN:ND2	46:NN:175:VAL:HG12	2.20	0.57
46:NN:372:THR:HA	46:NN:422:TYR:HE1	1.69	0.57
45:OC:70:LEU:HD13	45:OC:95:GLY:HA3	1.85	0.57
46:OF:109:GLY:O	46:OF:113:ILE:HG23	2.05	0.57
45:OI:297:GLU:OE2	45:OI:298:PRO:HD2	2.03	0.57
45:PA:221:ARG:NH1	46:PB:325:GLU:HB3	2.19	0.57
45:PA:319:TYR:HB3	45:PA:323:VAL:HG21	1.86	0.57
45:PG:315:CYS:HB3	45:PG:377:MET:HE1	1.87	0.57
46:PH:173:PRO:HA	46:PH:176:SER:HB3	1.85	0.57
46:PJ:289:LEU:HD11	46:PJ:363:MET:HG3	1.86	0.57
46:PJ:294:PHE:HE2	46:PJ:333:VAL:HG11	1.69	0.57
45:PK:259:LEU:O	45:PK:380:ASN:ND2	2.37	0.57
46:QB:134:GLN:HE22	46:QB:136:THR:HG22	1.69	0.57
46:QD:51:TYR:HB3	46:QD:59:TYR:HB3	1.85	0.57
46:QJ:47:ILE:HD12	46:QJ:59:TYR:HE2	1.70	0.57
45:QK:352:LYS:HE3	46:QL:179:VAL:HG13	1.87	0.57
46:RB:280:GLN:HG2	46:RB:281:TYR:HD1	1.69	0.57
46:RB:423:GLN:NE2	46:RB:427:ASP:OD2	2.37	0.57
45:RI:212:ILE:HD11	45:RI:300:ASN:HA	1.85	0.57
45:RK:119:LEU:HA	45:RK:122:ILE:HG22	1.87	0.57
46:SD:192:LEU:HD21	46:SD:199:CYS:SG	2.44	0.57
45:TA:108:TYR:HA	45:TA:112:LYS:HE3	1.87	0.57
45:TE:141:VAL:HG11	45:TE:172:TYR:CD1	2.40	0.57
46:UB:91:VAL:HG21	46:UB:116:VAL:HG12	1.87	0.57
46:UF:68:LEU:HD23	46:UF:147:MET:HE3	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VB:189:VAL:HA	46:VB:192:LEU:HB2	1.86	0.57
45:VC:399:TYR:O	45:VC:402:ARG:NH1	2.37	0.57
45:WA:221:ARG:NH1	46:WB:324:LYS:HE3	2.20	0.57
45:WE:51:THR:HG21	45:WE:243:ARG:HB3	1.86	0.57
45:WG:254:GLU:OE1	46:WJ:99:ASN:ND2	2.37	0.57
46:WH:221:THR:HG23	46:WH:224:ASP:H	1.70	0.57
46:WN:303:ALA:HB2	46:WN:377:MET:HE1	1.87	0.57
1:0A:52:THR:HG21	34:7R:71:LYS:HB2	1.87	0.57
23:1O:212:ASP:OD1	23:1O:215:LYS:HE3	2.04	0.57
24:1P:82:LEU:HD22	13:2U:520:TYR:CD2	2.39	0.57
5:2E:11:ARG:O	5:2E:14:SER:OG	2.21	0.57
5:2E:20:ASN:OD1	5:2E:21:GLN:N	2.38	0.57
31:2I:77:GLY:O	31:2I:79:ALA:N	2.37	0.57
14:2V:72:GLY:HA2	46:MF:340:TYR:CE1	2.39	0.57
13:3U:513:LYS:HB2	13:3U:526:ARG:HH12	1.69	0.57
15:3X:6:GLU:HB3	15:3X:10:ARG:HH12	1.69	0.57
15:4X:122:LEU:HB3	15:4X:126:ARG:HH12	1.69	0.57
36:5B:43:CYS:SG	46:KF:391:ARG:NE	2.78	0.57
36:5D:82:ASP:OD2	46:NN:320:ARG:NH1	2.38	0.57
37:5E:132:THR:OG1	46:OD:276:ARG:NH1	2.38	0.57
35:5S:75:PRO:HB3	35:5S:91:LEU:HD12	1.86	0.57
39:6F:127:TRP:O	46:IH:359:LYS:HE2	2.05	0.57
34:7R:564:ILE:HD11	34:7R:600:LEU:HD13	1.87	0.57
45:AA:176:GLN:NE2	45:AA:207:GLU:OE2	2.38	0.57
46:BH:238:CYS:SG	46:BH:239:CYS:N	2.78	0.57
45:BM:223:THR:HG23	45:BM:225:THR:H	1.69	0.57
46:BN:173:PRO:HD2	46:BN:380:ARG:NH2	2.19	0.57
46:CB:322:SER:OG	45:CC:221:ARG:NH1	2.37	0.57
46:CH:16:ILE:HD12	46:CH:229:VAL:HG11	1.86	0.57
45:DG:184:PRO:O	45:DG:188:ILE:HG12	2.05	0.57
45:EC:101:ASN:HA	45:EC:144:GLY:H	1.70	0.57
45:EC:326:LYS:HG2	46:ED:212:PHE:HE2	1.66	0.57
46:EH:330:MET:HE3	46:EH:330:MET:HA	1.87	0.57
46:FB:309:ARG:NH1	46:FB:342:VAL:HA	2.20	0.57
45:FI:3:GLU:OE2	45:FI:64:ARG:NH1	2.38	0.57
45:FM:298:PRO:HA	45:FM:301:MET:HE1	1.87	0.57
46:FN:55:THR:HG23	46:GN:283:ALA:HA	1.87	0.57
45:GA:121:ARG:HA	45:GA:124:LYS:NZ	2.20	0.57
45:GK:371:VAL:HG12	45:GK:373:ARG:H	1.69	0.57
46:HD:67:ASP:O	46:HD:92:PHE:HA	2.05	0.57
46:HH:100:ASN:ND2	46:HH:401:GLU:OE1	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:HN:100:ASN:ND2	46:HN:401:GLU:OE1	2.37	0.57
46:IN:139:LEU:HD13	46:IN:168:SER:HB3	1.87	0.57
45:JI:89:PRO:HB2	45:KI:280:LYS:HZ3	1.70	0.57
46:KH:213:ARG:HD2	46:KH:297:LYS:HD3	1.86	0.57
46:KN:267:MET:HE1	46:KN:305:PRO:HB3	1.86	0.57
46:MD:274:THR:HB	46:MD:282:ARG:HH11	1.69	0.57
45:ME:221:ARG:NH1	46:MF:325:GLU:OE2	2.38	0.57
46:MJ:101:TRP:HB2	46:MJ:184:ASN:OD1	2.04	0.57
46:ML:222:TYR:O	46:ML:226:ASN:ND2	2.29	0.57
45:MM:27:GLU:OE1	45:MM:243:ARG:NH1	2.33	0.57
46:NF:7:ILE:HG23	46:NF:135:ILE:HG12	1.87	0.57
46:OB:10:GLY:O	46:OB:14:ASN:ND2	2.38	0.57
46:OH:403:MET:HE3	46:OH:404:ASP:H	1.70	0.57
45:PM:23:LEU:HD21	45:PM:233:GLN:OE1	2.05	0.57
45:PM:135:PHE:HB2	45:PM:166:LYS:HG2	1.87	0.57
45:QC:60:LYS:NZ	45:QC:61:HIS:O	2.37	0.57
45:QC:296:PHE:CE2	45:QC:335:ILE:HD13	2.40	0.57
45:QI:248:LEU:HB2	45:QI:355:ILE:HG22	1.86	0.57
46:QL:150:LEU:O	46:QL:154:LYS:HG2	2.05	0.57
46:QL:190:HIS:CE1	46:QL:414:ASN:HD22	2.23	0.57
45:QM:135:PHE:HB2	45:QM:166:LYS:HG2	1.86	0.57
45:RG:259:LEU:HD11	45:RG:316:SER:HB2	1.87	0.57
46:RN:309:ARG:NH2	46:RN:426:GLN:O	2.35	0.57
45:SC:75:ILE:HD13	45:SC:94:SER:HB2	1.86	0.57
46:SD:222:TYR:O	46:SD:226:ASN:ND2	2.28	0.57
46:SD:247:ASN:OD1	45:SE:11:GLN:NE2	2.38	0.57
45:SK:174:SER:HB2	45:SK:177:VAL:HB	1.86	0.57
46:SL:86:ARG:HH22	46:TL:282:ARG:HA	1.68	0.57
46:SL:257:LEU:HB3	46:SL:266:PHE:HE1	1.69	0.57
45:TC:108:TYR:HA	45:TC:112:LYS:HE3	1.86	0.57
45:TI:115:VAL:HG11	45:TI:152:LEU:HD23	1.87	0.57
46:UB:213:ARG:HB2	46:UB:297:LYS:NZ	2.20	0.57
46:UJ:67:ASP:O	46:UJ:92:PHE:HA	2.04	0.57
46:UJ:248:SER:HA	46:UJ:252:LYS:HD2	1.86	0.57
46:UL:143:THR:OG1	46:UL:147:MET:HE1	2.04	0.57
45:WA:75:ILE:HD12	45:WA:92:LEU:HD12	1.85	0.57
45:WE:127:ASP:OD1	45:WE:128:ASN:N	2.38	0.57
45:WE:214:ARG:HE	45:WE:220:GLU:HA	1.70	0.57
45:WE:287:SER:O	45:WE:291:ILE:HG12	2.04	0.57
45:WM:328:VAL:HG11	45:WM:353:VAL:HG21	1.87	0.57
4:0D:99:ARG:NH2	45:EC:365:GLY:H	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:0G:150:GLU:HA	27:4C:264:PRO:HG2	1.85	0.57
13:0U:64:SER:HB3	13:0U:110:PHE:CD2	2.39	0.57
16:1B:446:ILE:HG13	16:1B:449:ASP:H	1.70	0.57
17:1F:59:LYS:HZ3	46:GL:56:GLY:N	2.03	0.57
21:1L:590:SER:O	21:1L:608:ASN:ND2	2.27	0.57
23:1O:265:PHE:C	45:UA:282:TYR:CD2	2.82	0.57
10:1Q:91:VAL:HG12	10:1Q:154:VAL:HG22	1.87	0.57
11:1S:133:GLU:OE2	11:1S:136:ARG:NH2	2.38	0.57
11:1S:307:LYS:NZ	11:1S:311:PRO:O	2.38	0.57
4:2D:118:ASP:H	4:2D:121:LYS:HZ1	1.52	0.57
29:2G:5:GLN:O	29:2G:9:LYS:HG2	2.05	0.57
21:2L:407:VAL:HG12	46:CN:320:ARG:HD2	1.86	0.57
12:2T:94:ASP:OD1	12:2T:95:GLU:N	2.37	0.57
12:2T:103:VAL:O	12:2T:104:HIS:ND1	2.38	0.57
14:2V:22:ARG:NH2	45:ME:422:ARG:HE	2.03	0.57
32:3D:165:ALA:HB1	32:3D:167:PHE:HE1	1.70	0.57
25:3R:10:GLY:O	15:3X:81:ARG:NH2	2.32	0.57
25:3R:64:ASN:HD21	46:ML:40:SER:HB3	1.69	0.57
27:4C:13:ASP:O	27:4C:17:THR:HG23	2.04	0.57
27:4C:225:THR:O	45:KM:221:ARG:NH2	2.37	0.57
35:4S:209:ARG:NH1	46:WD:115:SER:HA	2.20	0.57
34:5R:325:LYS:HD3	34:5R:326:GLU:H	1.69	0.57
46:AF:226:ASN:HD21	49:AF:501:GDP:HN1	1.50	0.57
46:AH:36:TYR:CZ	46:AH:44:LEU:HD11	2.40	0.57
46:AN:26:ASP:O	46:AN:359:LYS:NZ	2.28	0.57
45:BA:108:TYR:HA	45:BA:112:LYS:HE3	1.87	0.57
45:BC:292:THR:HG21	45:BC:331:SER:HB3	1.86	0.57
45:BI:98:ASP:OD1	45:BI:99:ALA:N	2.38	0.57
46:BL:139:LEU:HD13	46:BL:168:SER:HB3	1.87	0.57
46:CF:86:ARG:NH2	46:DF:280:GLN:HB2	2.19	0.57
46:CH:222:TYR:O	46:CH:226:ASN:ND2	2.31	0.57
46:CL:2:ARG:HH22	45:CM:71:GLU:HA	1.70	0.57
46:CL:158:GLU:HG3	46:CL:159:TYR:CD2	2.40	0.57
46:DB:67:ASP:HB3	46:DB:73:MET:HE1	1.86	0.57
45:DM:176:GLN:HG2	45:DM:177:VAL:HG23	1.87	0.57
45:EG:329:ASN:ND2	46:EH:205:GLU:OE2	2.38	0.57
45:EI:55:GLU:OE2	45:EI:61:HIS:NE2	2.38	0.57
45:FA:11:GLN:HG3	45:FA:74:VAL:HG11	1.87	0.57
46:FH:167:PHE:CE1	46:FH:233:MET:HG2	2.39	0.57
45:FK:169:PHE:HB3	45:FK:204:LEU:HD11	1.87	0.57
45:FK:311:LYS:HA	45:FK:342:GLN:HE22	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:HH:267:MET:HE1	46:HH:303:ALA:HB3	1.87	0.57
45:IA:258:ASN:HB3	45:IA:352:LYS:HD2	1.87	0.57
46:IB:32:PRO:O	46:IB:83:GLN:NE2	2.38	0.57
46:IB:237:THR:HG23	46:IB:241:ARG:HH21	1.70	0.57
46:IF:238:CYS:SG	46:IF:239:CYS:N	2.78	0.57
45:IG:331:SER:O	45:IG:335:ILE:HG12	2.04	0.57
45:IM:14:ILE:O	45:IM:18:ASN:ND2	2.37	0.57
45:IM:69:ASP:OD1	45:IM:70:LEU:N	2.38	0.57
45:JA:113:GLU:OE2	45:JA:113:GLU:N	2.35	0.57
46:JH:73:MET:HA	46:JH:76:VAL:HG12	1.86	0.57
45:JI:100:ALA:HA	46:JJ:252:LYS:HG2	1.85	0.57
45:JK:245:ASP:OD1	45:JK:246:GLY:N	2.38	0.57
45:KG:271:SER:HB3	45:KG:377:MET:HB3	1.85	0.57
46:KH:207:LEU:HB3	46:KH:225:LEU:HD22	1.86	0.57
45:KI:339:ARG:NH2	45:KI:340:THR:HA	2.20	0.57
46:KJ:39:ASP:OD1	46:KJ:40:SER:N	2.37	0.57
45:KK:439:THR:HG22	46:KN:391:ARG:HD3	1.87	0.57
46:LD:330:MET:HA	46:LD:330:MET:HE3	1.86	0.57
46:LH:68:LEU:HB3	46:LH:96:GLY:HA2	1.86	0.57
46:LL:155:VAL:HG13	46:LL:164:MET:HE1	1.86	0.57
45:MA:399:TYR:OH	45:MA:402:ARG:NH2	2.38	0.57
46:MD:401:GLU:N	46:MD:401:GLU:OE2	2.38	0.57
45:ME:326:LYS:HZ3	46:MH:220:PRO:HD2	1.70	0.57
45:MI:64:ARG:NH1	45:MI:129:CYS:SG	2.78	0.57
45:MM:212:ILE:HD11	45:MM:300:ASN:HA	1.86	0.57
45:OA:70:LEU:HD13	45:OA:95:GLY:HA3	1.87	0.57
46:OH:113:ILE:HD13	46:OH:150:LEU:HD21	1.87	0.57
45:OI:101:ASN:HA	45:OI:144:GLY:H	1.69	0.57
45:PG:318:MET:HE1	45:PG:320:ARG:HB3	1.86	0.57
45:PK:90:GLU:HG3	45:PK:121:ARG:NH1	2.20	0.57
46:PL:273:LEU:H	46:PL:292:GLN:NE2	2.01	0.57
46:QB:187:LEU:HD21	46:QB:408:PHE:HE2	1.69	0.57
46:QF:183:TYR:CZ	46:QF:388:MET:HE2	2.40	0.57
46:SB:167:PHE:CZ	46:SB:233:MET:HG2	2.40	0.57
45:SE:81:GLY:O	45:SE:84:ARG:HD3	2.05	0.57
46:SJ:213:ARG:HH21	46:SJ:297:LYS:HB3	1.69	0.57
45:TC:287:SER:HB3	45:TC:290:GLU:HG2	1.85	0.57
46:TD:313:ALA:HB3	46:TD:349:ILE:HG12	1.85	0.57
46:TF:207:LEU:HB3	46:TF:225:LEU:HD22	1.87	0.57
46:TL:324:LYS:HG2	45:TM:210:TYR:CD2	2.39	0.57
46:UB:73:MET:HE1	46:UB:90:PHE:HB3	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UD:322:SER:H	45:UE:221:ARG:NH1	2.03	0.57
45:VA:288:VAL:HG21	45:VA:327:ASP:HB3	1.87	0.57
46:VD:285:THR:HB	46:VD:287:PRO:HD2	1.86	0.57
45:VE:407:TRP:HE1	46:VF:258:ILE:HG13	1.70	0.57
46:VJ:318:ARG:HB3	46:VJ:357:PRO:HA	1.87	0.57
45:WG:69:ASP:OD1	45:WG:70:LEU:N	2.38	0.57
45:DC:5:ILE:HG21	45:DC:122:ILE:HD11	1.87	0.57
6:0F:47:LEU:HD12	6:0F:55:ILE:HG23	1.86	0.57
13:0U:529:ASP:OD2	13:0U:560:TRP:NE1	2.35	0.57
19:1J:297:THR:HG22	19:1J:299:ARG:H	1.70	0.57
20:1K:245:TRP:CE3	46:GB:280:GLN:HG2	2.40	0.57
21:1L:558:LEU:HD13	21:1L:562:GLU:HB3	1.87	0.57
9:1N:269:GLN:OE1	9:1N:269:GLN:N	2.37	0.57
9:1N:361:ASP:OD1	9:1N:362:LEU:N	2.37	0.57
24:1P:123:ASP:HA	23:3O:342:ARG:NH2	2.20	0.57
13:1U:496:VAL:HG12	13:1U:507:THR:OG1	2.05	0.57
26:1W:230:ALA:HB1	27:3C:6:VAL:HG11	1.87	0.57
11:2S:44:LYS:NZ	10:3Q:3:LYS:HB2	2.20	0.57
11:2S:150:GLN:HE21	45:WG:161:TYR:C	2.13	0.57
1:3A:142:THR:HG22	1:3A:143:HIS:H	1.69	0.57
5:3E:160:GLN:NE2	5:3E:162:LYS:HG3	2.15	0.57
31:3I:211:ASN:ND2	31:3I:217:ASN:OD1	2.38	0.57
21:3L:43:GLN:HB2	46:BB:357:PRO:HD2	1.86	0.57
25:3R:156:LYS:HE3	25:3R:166:TYR:HD2	1.70	0.57
27:4C:51:ASN:ND2	27:4C:54:ASP:OD1	2.38	0.57
27:4C:94:CYS:SG	27:4C:95:ILE:N	2.77	0.57
27:4C:106:PHE:O	27:4C:109:LYS:HG3	2.04	0.57
33:4F:119:VAL:HG22	46:IL:359:LYS:NZ	2.19	0.57
37:5H:78:LEU:HD21	37:5H:97:ARG:HG2	1.86	0.57
45:AG:164:LYS:O	45:AG:166:LYS:NZ	2.38	0.57
46:CD:141:GLY:O	46:CD:145:SER:OG	2.22	0.57
45:DA:317:MET:HE2	45:DA:375:VAL:HG21	1.87	0.57
46:DB:350:LYS:HZ1	45:DC:180:ALA:HA	1.69	0.57
46:DF:118:ASP:OD1	46:DF:119:VAL:N	2.37	0.57
46:DL:86:ARG:NH1	46:EL:281:TYR:HB2	2.20	0.57
46:DL:255:VAL:HA	45:DM:407:TRP:CE2	2.40	0.57
46:EF:192:LEU:HD21	46:EF:199:CYS:SG	2.45	0.57
46:EN:207:LEU:HB3	46:EN:225:LEU:HD22	1.86	0.57
45:FA:292:THR:HG21	45:FA:331:SER:HB3	1.86	0.57
45:GA:89:PRO:HG2	45:HA:280:LYS:HD3	1.87	0.57
45:GA:352:LYS:NZ	46:GD:178:THR:HA	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GD:377:MET:SD	46:GD:380:ARG:NH2	2.78	0.57
45:GE:241:SER:OG	45:GE:250:VAL:O	2.23	0.57
46:GH:318:ARG:HH11	46:GH:358:PRO:HG3	1.69	0.57
46:HF:205:GLU:HA	46:HF:208:TYR:HD2	1.70	0.57
46:HJ:70:PRO:HA	46:HJ:73:MET:HE2	1.87	0.57
45:IC:175:PRO:HG2	45:IC:304:LYS:HD2	1.86	0.57
45:IK:292:THR:HG21	45:IK:331:SER:HB3	1.84	0.57
46:KB:39:ASP:OD1	46:KB:40:SER:N	2.36	0.57
46:KN:125:GLU:OE2	46:KN:159:TYR:OH	2.21	0.57
45:LG:254:GLU:HG2	46:LJ:98:GLY:HA2	1.86	0.57
46:LH:148:GLY:O	46:LH:152:ILE:HG12	2.03	0.57
46:LH:318:ARG:HB3	46:LH:357:PRO:HA	1.85	0.57
46:LJ:132:GLY:HA3	46:LJ:163:ILE:HG22	1.87	0.57
45:LK:181:VAL:HG22	46:LL:256:ASN:OD1	2.03	0.57
45:LK:226:ASN:ND2	45:LK:367:ASP:OD2	2.38	0.57
46:LL:101:TRP:HB2	46:LL:184:ASN:HB3	1.86	0.57
46:MB:5:VAL:HG12	46:MB:62:ARG:HD3	1.86	0.57
45:MK:176:GLN:HG2	45:MK:177:VAL:HG23	1.87	0.57
45:NK:296:PHE:HE1	45:NK:377:MET:HG3	1.70	0.57
46:NL:167:PHE:CD1	46:NL:200:MET:HB3	2.40	0.57
45:OC:46:ASP:OD1	45:OC:47:ASP:N	2.38	0.57
46:ON:134:GLN:HB2	46:ON:165:GLU:OE2	2.04	0.57
46:ON:248:SER:HA	46:ON:252:LYS:HD2	1.86	0.57
46:ON:285:THR:HB	46:ON:287:PRO:HD2	1.86	0.57
45:PA:318:MET:HB3	45:PA:376:CYS:SG	2.45	0.57
45:PC:27:GLU:HB3	45:PC:361:THR:HG21	1.86	0.57
45:PC:288:VAL:HG11	45:PC:327:ASP:HB3	1.85	0.57
45:PG:55:GLU:CD	45:PG:57:GLY:H	2.13	0.57
46:PJ:405:GLU:OE2	46:PJ:409:THR:OG1	2.22	0.57
45:PM:140:SER:OG	47:PM:501:GTP:O2B	2.20	0.57
45:QE:171:ILE:O	45:QE:171:ILE:HG13	2.05	0.57
45:QI:68:LEU:HG	45:QI:93:ILE:HB	1.87	0.57
45:QK:254:GLU:CD	45:QK:258:ASN:HD21	2.13	0.57
46:QL:257:LEU:HD11	46:QL:314:SER:HB2	1.86	0.57
46:RD:221:THR:HG23	46:RD:224:ASP:H	1.70	0.57
46:SB:67:ASP:O	46:SB:92:PHE:HA	2.05	0.57
46:SB:73:MET:HA	46:SB:76:VAL:HG22	1.85	0.57
45:SK:90:GLU:OE2	45:TK:215:ARG:NH2	2.38	0.57
46:SL:253:LEU:O	46:SL:257:LEU:HB2	2.05	0.57
46:TD:152:ILE:HG13	46:TD:164:MET:HE2	1.85	0.57
46:TF:109:GLY:O	46:TF:113:ILE:HG23	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TG:91:GLN:HG3	45:TG:121:ARG:HD2	1.86	0.57
46:TH:192:LEU:HD21	46:TH:199:CYS:SG	2.45	0.57
46:TH:269:GLY:HA2	46:TH:300:MET:HG2	1.87	0.57
45:TK:280:LYS:HA	45:TK:283:HIS:CD2	2.35	0.57
45:UA:216:ASN:HB3	45:UA:276:ILE:HA	1.86	0.57
46:UJ:290:THR:HA	46:UJ:293:MET:HG2	1.87	0.57
45:UM:337:THR:O	45:UM:339:ARG:NH1	2.38	0.57
46:WH:209:ASP:HB3	46:WH:213:ARG:HH22	1.69	0.57
45:WI:326:LYS:HA	45:WI:326:LYS:HE2	1.86	0.57
45:CE:167:LEU:HD13	45:CE:200:VAL:HB	1.87	0.57
45:CE:335:ILE:HA	45:CE:338:LYS:HZ3	1.70	0.57
3:0C:75:LEU:HD12	3:0C:76:PRO:HD2	1.86	0.56
10:0Q:49:ILE:HD12	10:0Q:158:ALA:HA	1.87	0.56
12:0T:65:ARG:HH21	46:MB:111:GLU:HB3	1.70	0.56
1:1A:16:LEU:HA	1:1A:19:ARG:HG2	1.87	0.56
17:1F:121:ARG:NH1	45:GI:77:GLU:OE1	2.38	0.56
8:1H:137:GLN:O	8:1H:141:VAL:HG23	2.05	0.56
18:1I:141:PHE:HE2	46:KF:43:GLN:HG3	1.69	0.56
24:1P:163:ASP:OD1	24:1P:164:THR:N	2.37	0.56
24:2P:377:GLN:O	24:2P:381:PHE:HB2	2.04	0.56
10:2Q:41:ASP:OD2	10:2Q:81:LYS:NZ	2.35	0.56
13:2U:458:LYS:NZ	13:2U:460:ASN:HB3	2.20	0.56
5:3E:59:LEU:HD22	5:3E:63:GLU:HG2	1.87	0.56
10:3Q:33:HIS:HE2	10:3Q:50:MET:HE3	1.70	0.56
11:3S:131:VAL:O	11:3S:179:ARG:NH1	2.38	0.56
11:3S:267:LYS:O	10:6Q:35:LYS:NZ	2.38	0.56
27:4C:234:LEU:HD23	27:4C:291:VAL:HG22	1.86	0.56
34:4R:547:GLU:HA	34:4R:550:VAL:HG12	1.87	0.56
36:5B:102:TYR:CZ	45:KE:394:LYS:HE3	2.39	0.56
35:5S:68:TYR:CD2	35:5S:104:ILE:HG21	2.40	0.56
34:6R:223:PRO:O	34:6R:226:LYS:NZ	2.37	0.56
46:AB:65:LEU:HD22	46:AB:90:PHE:HE1	1.70	0.56
46:AB:371:SER:O	46:AB:422:TYR:OH	2.13	0.56
46:AD:322:SER:OG	46:AD:325:GLU:OE1	2.20	0.56
45:AM:116:ASP:OD1	45:AM:117:LEU:N	2.38	0.56
45:AM:135:PHE:HB2	45:AM:166:LYS:HG2	1.87	0.56
46:BB:222:TYR:O	46:BB:226:ASN:ND2	2.28	0.56
46:BF:332:ASN:O	46:BF:336:LYS:HG3	2.05	0.56
46:CN:86:ARG:HD2	46:DN:281:TYR:HB2	1.87	0.56
46:EB:316:LEU:HD23	46:EB:352:SER:HB2	1.86	0.56
46:EH:52:ASN:OD1	46:EH:62:ARG:NH2	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EH:67:ASP:O	46:EH:92:PHE:HA	2.04	0.56
46:EJ:130:LEU:HB2	46:EJ:162:ARG:HE	1.70	0.56
46:EL:55:THR:HG23	46:FL:283:ALA:HA	1.87	0.56
46:EL:209:ASP:HB3	46:EL:213:ARG:HH21	1.69	0.56
45:FA:395:PHE:HZ	45:FA:418:PHE:HB3	1.70	0.56
45:FA:398:MET:HE1	46:FB:346:PRO:HD2	1.86	0.56
45:FC:390:ARG:HG3	45:FC:391:LEU:HD12	1.85	0.56
45:GC:220:GLU:H	45:GC:220:GLU:CD	2.13	0.56
45:GC:239:THR:HG23	45:GC:242:LEU:HD12	1.87	0.56
45:GE:221:ARG:HA	46:GF:324:LYS:HE2	1.87	0.56
46:GH:330:MET:HE3	46:GH:330:MET:HA	1.87	0.56
45:GK:115:VAL:O	45:GK:119:LEU:HG	2.05	0.56
46:GL:25:SER:HG	46:GL:51:TYR:HH	1.52	0.56
46:HB:38:GLY:HA3	46:HB:43:GLN:HE22	1.70	0.56
46:HD:25:SER:OG	46:HD:30:ILE:O	2.23	0.56
46:HD:99:ASN:HA	46:HD:142:GLY:H	1.68	0.56
46:HH:326:VAL:O	46:HH:330:MET:HG2	2.05	0.56
46:HL:377:MET:SD	46:HL:380:ARG:NH2	2.78	0.56
46:IF:5:VAL:HG12	46:IF:62:ARG:HD3	1.85	0.56
45:IM:98:ASP:O	45:IM:105:ARG:NH2	2.38	0.56
46:JB:10:GLY:O	46:JB:14:ASN:ND2	2.37	0.56
45:JC:68:LEU:HD11	45:JC:118:CYS:SG	2.44	0.56
45:JI:272:TYR:HD2	45:JI:275:ILE:HD11	1.69	0.56
46:JN:375:GLN:HG3	46:JN:379:LYS:NZ	2.20	0.56
46:KB:215:LEU:HD21	46:KB:273:LEU:HD12	1.86	0.56
45:KC:5:ILE:HG21	45:KC:122:ILE:HD11	1.87	0.56
45:KE:7:ILE:HB	45:KE:137:VAL:HG12	1.87	0.56
45:KI:75:ILE:HG22	45:KI:79:ARG:HE	1.69	0.56
45:KK:11:GLN:NE2	46:KL:245:GLN:O	2.37	0.56
45:KK:167:LEU:HD23	45:KK:200:VAL:HB	1.87	0.56
45:KM:320:ARG:HD3	45:KM:360:PRO:HG3	1.85	0.56
46:KN:375:GLN:HG3	46:KN:379:LYS:NZ	2.19	0.56
45:NG:76:ASP:OD2	46:NH:46:ARG:NH2	2.38	0.56
45:NK:408:TYR:O	45:NK:413:MET:HB2	2.05	0.56
45:OC:210:TYR:HA	45:OC:213:CYS:SG	2.45	0.56
46:OD:186:THR:HA	46:OD:189:VAL:HG12	1.86	0.56
46:OH:67:ASP:OD1	46:OH:68:LEU:N	2.33	0.56
46:OL:10:GLY:O	46:OL:14:ASN:ND2	2.37	0.56
45:PA:231:ILE:O	45:PA:235:ILE:HG12	2.05	0.56
46:PF:6:HIS:O	46:PF:63:ALA:HA	2.04	0.56
46:PJ:47:ILE:HD12	46:PJ:59:TYR:HE1	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QB:73:MET:HE2	46:QB:90:PHE:HB3	1.87	0.56
45:QI:60:LYS:HE3	45:RI:283:HIS:HA	1.87	0.56
46:QJ:66:MET:HE2	46:QJ:116:VAL:HG21	1.87	0.56
45:QK:116:ASP:OD1	45:QK:117:LEU:N	2.37	0.56
46:RJ:294:PHE:CD1	46:RJ:333:VAL:HG11	2.40	0.56
45:RK:211:ASP:HA	45:RK:214:ARG:HG2	1.87	0.56
46:SD:100:ASN:HB3	46:SD:103:LYS:HB3	1.87	0.56
45:TE:244:PHE:HB2	45:TE:356:ASN:HD21	1.70	0.56
45:UC:387:VAL:HA	45:UC:390:ARG:HG2	1.85	0.56
46:UH:128:ASP:OD1	46:UH:129:CYS:N	2.37	0.56
46:UJ:67:ASP:HB3	46:UJ:73:MET:HE1	1.86	0.56
46:UL:130:LEU:HG	46:UL:162:ARG:HD2	1.86	0.56
46:UL:268:ILE:HG22	46:UL:368:VAL:HG22	1.85	0.56
45:VC:251:ASP:OD1	45:VC:252:ILE:N	2.37	0.56
45:VE:33:ASP:OD2	45:VE:35:GLN:NE2	2.38	0.56
46:VH:100:ASN:HB3	46:VH:103:LYS:HE2	1.87	0.56
45:VK:135:PHE:HB2	45:VK:166:LYS:HG2	1.87	0.56
46:VN:375:GLN:O	46:VN:379:LYS:HG2	2.05	0.56
45:WC:51:THR:HG21	45:WC:243:ARG:HB3	1.87	0.56
45:WC:180:ALA:HA	46:WD:350:LYS:HE2	1.87	0.56
45:WE:274:PRO:HB3	45:WE:291:ILE:HD12	1.87	0.56
45:WG:399:TYR:O	45:WG:402:ARG:NH1	2.38	0.56
45:WK:70:LEU:HD13	45:WK:95:GLY:HA3	1.85	0.56
45:CE:55:GLU:HG3	45:CE:57:GLY:H	1.70	0.56
1:0A:142:THR:HG22	1:0A:143:HIS:H	1.70	0.56
16:1B:400:GLN:HE22	16:1B:479:ARG:HD2	1.71	0.56
8:1H:274:LEU:HD13	46:HF:360:GLY:H	1.70	0.56
8:1H:295:GLU:HA	8:1H:298:LYS:HG2	1.87	0.56
21:1L:594:GLN:NE2	25:1R:109:SER:HB2	2.18	0.56
24:1P:181:MET:HE3	24:1P:185:ARG:NH2	2.20	0.56
12:1T:7:PHE:HE2	12:1T:41:PHE:HD2	1.53	0.56
14:1V:99:PRO:HG2	45:LI:409:VAL:HG11	1.86	0.56
27:2C:166:THR:HG22	27:2C:168:ASP:H	1.68	0.56
29:2G:79:GLU:HG3	29:2G:83:TRP:CZ3	2.39	0.56
20:2K:448:LEU:HB3	20:2K:452:ARG:NH1	2.20	0.56
21:2L:513:LEU:HB3	21:2L:517:ARG:HH21	1.70	0.56
13:2U:292:HIS:ND1	13:2U:306:ASP:OD1	2.37	0.56
14:2V:24:ARG:NH2	45:ME:433:GLU:HB2	2.18	0.56
21:3L:26:THR:OG1	21:3L:27:VAL:N	2.37	0.56
12:3T:185:LEU:HB2	12:3T:196:VAL:HG12	1.85	0.56
37:5F:54:LYS:HG2	46:OF:227:HIS:CD2	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:6G:90:ASP:OD1	45:UK:79:ARG:NH1	2.39	0.56
34:6R:477:ASN:HA	34:6R:484:PRO:HA	1.87	0.56
46:AB:118:ASP:O	46:AB:121:ARG:HG3	2.05	0.56
46:AD:73:MET:HE1	46:AD:92:PHE:HB3	1.88	0.56
46:AF:324:LYS:O	46:AF:328:GLU:HG3	2.04	0.56
46:AH:19:LYS:HA	46:AH:22:GLU:OE2	2.06	0.56
46:AJ:139:LEU:HD13	46:AJ:168:SER:HB3	1.86	0.56
47:BE:501:GTP:O1G	46:BF:252:LYS:NZ	2.38	0.56
46:BF:377:MET:O	46:BF:380:ARG:HG2	2.05	0.56
45:BK:76:ASP:OD1	45:BK:79:ARG:NH2	2.36	0.56
45:BK:390:ARG:HG3	45:BK:391:LEU:HD12	1.87	0.56
46:CB:237:THR:OG1	46:CB:241:ARG:NH2	2.38	0.56
45:CC:192:HIS:ND1	45:CC:424:ASP:OD2	2.37	0.56
46:CD:63:ALA:O	46:CD:89:ASN:ND2	2.34	0.56
45:CK:322:ASP:OD1	45:CK:373:ARG:NH1	2.38	0.56
46:CL:1:MET:HE1	45:CM:96:LYS:HG3	1.87	0.56
45:DK:345:ASP:OD1	45:DK:346:TRP:N	2.38	0.56
46:EB:131:GLN:NE2	46:EB:251:ARG:HH11	2.03	0.56
45:EC:26:LEU:HD22	45:EC:364:PRO:HD3	1.87	0.56
46:EJ:164:MET:HB3	46:EJ:197:ASP:H	1.70	0.56
46:EL:148:GLY:O	46:EL:152:ILE:HG12	2.05	0.56
46:EN:12:CYS:HA	46:EN:15:GLN:HE21	1.70	0.56
45:FA:93:ILE:HD11	45:FA:121:ARG:HG3	1.87	0.56
46:FL:67:ASP:OD1	46:FL:68:LEU:N	2.37	0.56
45:FM:398:MET:HE2	46:FN:345:ILE:HG13	1.86	0.56
46:GD:304:ASP:HB3	46:GD:307:HIS:ND1	2.20	0.56
46:GJ:124:ALA:HB1	46:GJ:130:LEU:HD21	1.88	0.56
46:GN:238:CYS:SG	46:GN:239:CYS:N	2.78	0.56
45:HA:311:LYS:N	45:HA:382:THR:OG1	2.35	0.56
46:ID:62:ARG:O	46:ID:62:ARG:HG3	2.05	0.56
45:IG:101:ASN:OD1	46:IH:252:LYS:NZ	2.37	0.56
46:IH:7:ILE:HG22	46:IH:64:ILE:HB	1.86	0.56
46:IH:260:PHE:HB2	46:IH:263:LEU:HD13	1.85	0.56
46:IN:31:ASP:OD1	46:IN:35:THR:N	2.34	0.56
45:JC:335:ILE:HA	45:JC:338:LYS:HZ3	1.70	0.56
45:JE:88:HIS:HE1	45:JE:90:GLU:HG2	1.69	0.56
46:JH:101:TRP:CE3	46:JH:187:LEU:HD23	2.40	0.56
46:JH:114:ASP:OD1	46:JH:115:SER:N	2.38	0.56
46:KL:101:TRP:CD1	46:KL:145:SER:HG	2.23	0.56
46:LF:73:MET:HA	46:LF:76:VAL:HG12	1.86	0.56
46:LH:1:MET:N	46:LH:48:ASN:OD1	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LH:215:LEU:HD11	46:LH:273:LEU:HD12	1.87	0.56
45:LK:205:ASP:OD1	45:LK:303:ALA:HA	2.05	0.56
45:MA:33:ASP:HA	45:MA:85:GLN:HE21	1.69	0.56
45:MG:18:ASN:OD1	45:MG:19:ALA:N	2.37	0.56
46:ND:86:ARG:HA	46:OD:281:TYR:CD2	2.40	0.56
46:ND:236:VAL:HG13	46:ND:237:THR:HG23	1.86	0.56
46:NF:299:MET:HE3	46:NF:299:MET:HA	1.87	0.56
46:NL:286:VAL:HG21	46:NL:325:GLU:HG3	1.87	0.56
45:OA:179:THR:HG21	46:OB:246:LEU:HD11	1.87	0.56
45:OE:317:MET:HG2	45:OE:377:MET:HG2	1.87	0.56
46:OJ:5:VAL:HG12	46:OJ:62:ARG:HD3	1.85	0.56
45:OK:286:LEU:N	45:OK:290:GLU:OE2	2.39	0.56
46:PB:48:ASN:O	46:PB:62:ARG:NH1	2.37	0.56
46:PF:1:MET:HG2	46:PF:2:ARG:N	2.19	0.56
45:PG:251:ASP:H	45:PG:254:GLU:HG3	1.69	0.56
45:PI:352:LYS:NZ	46:PL:179:VAL:H	2.03	0.56
45:QA:311:LYS:HA	45:QA:311:LYS:HE3	1.87	0.56
46:QB:12:CYS:HA	46:QB:15:GLN:HE21	1.70	0.56
46:QB:350:LYS:NZ	46:QB:352:SER:OG	2.25	0.56
45:QC:2:ARG:HD3	45:QC:242:LEU:HD12	1.88	0.56
45:QC:14:ILE:HD11	45:QC:69:ASP:HB2	1.85	0.56
45:QG:292:THR:HG21	45:QG:331:SER:HB3	1.87	0.56
45:QI:5:ILE:HD12	45:QI:135:PHE:HE1	1.69	0.56
45:QI:171:ILE:O	45:QI:171:ILE:HG13	2.05	0.56
45:RE:171:ILE:O	45:RE:171:ILE:HG13	2.05	0.56
45:RE:244:PHE:HB2	45:RE:356:ASN:HD21	1.68	0.56
46:RF:83:GLN:O	46:SF:281:TYR:OH	2.17	0.56
46:RF:136:THR:HG23	46:RF:167:PHE:HB2	1.86	0.56
46:RH:213:ARG:HD2	46:RH:297:LYS:HD3	1.86	0.56
45:RM:99:ALA:HB3	45:RM:145:THR:HB	1.86	0.56
45:SE:31:GLN:HG3	45:SE:32:PRO:HD2	1.87	0.56
45:SK:123:ARG:HH21	45:TK:338:LYS:HE2	1.69	0.56
46:SN:257:LEU:HD11	46:SN:314:SER:HB2	1.87	0.56
46:TD:87:PRO:HA	46:TD:90:PHE:HD2	1.69	0.56
45:TE:101:ASN:HA	45:TE:144:GLY:H	1.69	0.56
45:TE:402:ARG:O	45:TE:402:ARG:HD3	2.05	0.56
46:TN:257:LEU:HD11	46:TN:314:SER:HB2	1.87	0.56
46:UB:46:ARG:NH2	45:UC:76:ASP:OD2	2.37	0.56
46:UF:254:ALA:O	46:UF:258:ILE:HG22	2.05	0.56
46:UF:274:THR:HB	46:UF:282:ARG:HH11	1.70	0.56
45:UI:244:PHE:HB2	45:UI:356:ASN:HD21	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UL:313:ALA:HB1	46:UL:367:PHE:HE1	1.68	0.56
45:VA:274:PRO:HB3	45:VA:291:ILE:HD12	1.87	0.56
45:VK:391:LEU:HD22	45:VK:394:LYS:HZ1	1.70	0.56
45:WG:265:ILE:HG12	45:WG:432:TYR:HE1	1.70	0.56
46:WJ:304:ASP:OD1	46:WJ:306:ARG:NH1	2.38	0.56
45:WK:301:MET:HG3	45:WK:303:ALA:H	1.70	0.56
45:WK:346:TRP:CD1	46:WN:391:ARG:HG3	2.40	0.56
45:WM:178:SER:OG	46:WN:347:ASN:ND2	2.35	0.56
45:WM:215:ARG:NH2	45:WM:299:ALA:O	2.38	0.56
46:WN:206:ALA:O	46:WN:210:ILE:HG12	2.05	0.56
45:CE:31:GLN:NE2	45:CE:35:GLN:O	2.39	0.56
4:0D:56:LYS:O	4:0D:57:THR:OG1	2.24	0.56
4:0D:185:ASN:O	46:FB:320:ARG:NH1	2.37	0.56
10:0Q:85:LYS:O	10:0Q:107:ASN:ND2	2.34	0.56
11:0S:179:ARG:HA	11:0S:226:ILE:HD11	1.87	0.56
11:0S:196:LEU:O	11:0S:199:LYS:HG2	2.05	0.56
12:0T:146:MET:HG3	12:0T:148:CYS:H	1.69	0.56
13:0U:423:GLY:HA3	13:0U:452:VAL:HG21	1.85	0.56
15:0X:3:ARG:NH2	46:MD:11:GLN:OE1	2.39	0.56
16:1B:63:GLN:NE2	45:LC:80:THR:HB	2.20	0.56
16:1B:97:ARG:NH1	16:1B:182:GLU:OE2	2.39	0.56
3:1C:82:THR:O	46:EL:320:ARG:NH1	2.39	0.56
17:1F:34:ASP:O	8:1H:88:ARG:NH1	2.39	0.56
19:1J:77:TYR:CE1	45:IC:281:ALA:HB3	2.40	0.56
21:1L:479:VAL:HG21	34:4R:323:LEU:H	1.70	0.56
21:1L:792:LYS:O	21:1L:795:ASN:HB2	2.05	0.56
9:1N:1:MET:HB3	45:II:96:LYS:NZ	2.20	0.56
23:1O:55:GLU:O	23:1O:59:GLN:HG2	2.05	0.56
23:1O:257:GLN:O	23:1O:261:LEU:HG	2.06	0.56
24:1P:101:ARG:HH21	24:1P:104:LYS:NZ	2.03	0.56
25:1R:181:PHE:CE1	46:AF:80:PRO:HB3	2.40	0.56
14:1V:70:THR:HB	46:MJ:337:ASN:HD21	1.71	0.56
14:1V:131:LYS:HB2	14:1V:133:TYR:CE1	2.40	0.56
1:2A:52:THR:HG21	34:5R:71:LYS:HB3	1.87	0.56
27:2C:139:TYR:OH	27:2C:146:ARG:NH1	2.27	0.56
27:2C:229:ASN:CG	27:2C:230:ASP:H	2.14	0.56
4:2D:93:GLN:HA	45:EK:32:PRO:HG2	1.86	0.56
30:2H:205:GLN:NE2	45:AC:81:GLY:HA2	2.20	0.56
20:2K:239:MET:HE3	20:2K:239:MET:O	2.04	0.56
21:2L:282:LYS:NZ	21:2L:313:SER:O	2.38	0.56
21:2L:699:TYR:O	21:2L:702:PHE:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:2N:34:LEU:HA	9:2N:37:LYS:HZ3	1.69	0.56
23:2O:414:ILE:HG22	23:2O:418:GLN:HE22	1.68	0.56
11:2S:97:ARG:HH22	46:MJ:262:ARG:HH11	1.53	0.56
11:2S:179:ARG:HD3	11:2S:217:THR:HG22	1.87	0.56
13:2U:323:ILE:HG12	13:2U:599:ILE:HD11	1.86	0.56
15:2X:57:LYS:O	15:2X:60:GLU:HG3	2.04	0.56
1:3A:39:TYR:HD2	45:MM:81:GLY:HA3	1.70	0.56
1:3A:117:HIS:C	1:3A:118:LYS:HD2	2.30	0.56
16:3B:216:GLU:O	16:3B:220:GLN:HG3	2.05	0.56
30:3H:193:LEU:HD22	46:AH:357:PRO:HG3	1.87	0.56
21:3L:47:ARG:NH1	21:3L:102:CYS:HB3	2.20	0.56
23:3O:389:LYS:HG3	23:3O:392:ARG:NH2	2.20	0.56
25:3R:486:VAL:HA	25:3R:499:ILE:HB	1.88	0.56
13:3U:189:PHE:HB3	13:3U:192:ILE:HB	1.86	0.56
13:3U:212:THR:H	13:3U:241:ILE:HD13	1.71	0.56
14:3V:186:HIS:HA	14:3V:189:GLU:HG2	1.87	0.56
33:4F:150:PRO:HG2	33:4F:152:GLN:HE22	1.70	0.56
34:4R:379:LYS:HZ2	34:4R:381:PHE:HE2	1.51	0.56
34:4R:469:LYS:NZ	34:4R:472:GLU:HA	2.20	0.56
15:4X:51:GLN:HG2	15:4X:55:GLU:OE2	2.05	0.56
37:5E:145:GLU:HA	37:5E:148:GLN:OE1	2.05	0.56
37:5F:26:GLY:H	45:OC:221:ARG:HD3	1.70	0.56
37:5F:154:TYR:HD2	37:5G:11:TRP:CD1	2.24	0.56
37:5G:63:HIS:HD2	46:NJ:58:ARG:HD2	1.70	0.56
37:5G:210:THR:OG1	45:LK:431:ASP:OD2	2.15	0.56
10:5Q:57:ASN:HB2	10:5Q:158:ALA:HB2	1.87	0.56
34:5R:381:PHE:HD2	46:DJ:32:PRO:HD2	1.70	0.56
34:5R:550:VAL:O	34:5R:554:LYS:HG3	2.05	0.56
39:6F:70:ASN:HB2	46:JF:360:GLY:HA3	1.86	0.56
41:6H:241:LEU:HA	41:6H:243:LYS:HZ3	1.70	0.56
44:8R:234:TYR:OH	45:PE:279:GLU:O	2.14	0.56
46:AB:199:CYS:C	46:AB:200:MET:HE2	2.30	0.56
45:AC:188:ILE:HD11	45:AC:391:LEU:HB3	1.88	0.56
45:AE:120:ASP:OD1	45:AE:123:ARG:NH2	2.35	0.56
46:AJ:74:ASP:OD1	46:AJ:77:ARG:NH2	2.39	0.56
45:AK:1:MET:HE1	46:AN:70:PRO:HG2	1.87	0.56
46:AL:289:LEU:HD13	46:AL:365:VAL:HG23	1.86	0.56
45:AM:177:VAL:HG13	46:AN:327:ASP:OD2	2.06	0.56
46:BD:341:PHE:HB3	46:BD:348:ASN:HD21	1.69	0.56
45:BE:89:PRO:HD3	45:CE:283:HIS:CE1	2.40	0.56
45:BE:244:PHE:HB2	45:BE:356:ASN:HD21	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BF:164:MET:HA	46:BF:164:MET:HE3	1.87	0.56
45:BG:276:ILE:HD12	45:BG:281:ALA:HA	1.86	0.56
45:BG:417:GLU:HA	45:BG:420:GLU:OE1	2.05	0.56
46:BN:203:ASP:OD2	46:BN:302:ALA:N	2.29	0.56
45:CA:30:ILE:HG21	45:CA:53:PHE:HE2	1.71	0.56
46:CB:289:LEU:HD11	46:CB:363:MET:HE3	1.87	0.56
46:CB:350:LYS:NZ	45:CC:181:VAL:HG12	2.20	0.56
45:CC:88:HIS:HB3	45:CC:91:GLN:NE2	2.20	0.56
46:CD:324:LYS:HE3	45:CE:210:TYR:CE1	2.40	0.56
46:CF:170:VAL:HG23	46:CF:377:MET:HE2	1.86	0.56
46:CF:321:MET:HB2	45:CG:221:ARG:NH2	2.18	0.56
45:CG:69:ASP:OD1	45:CG:70:LEU:N	2.37	0.56
45:CG:254:GLU:OE1	45:CG:254:GLU:N	2.38	0.56
45:CG:413:MET:HE2	45:CG:413:MET:HA	1.87	0.56
46:CH:392:LYS:HA	46:CH:395:LEU:HD12	1.88	0.56
46:CL:243:PRO:HB3	45:CM:77:GLU:OE2	2.04	0.56
46:DD:267:MET:HE1	46:DD:305:PRO:HB3	1.87	0.56
46:DD:324:LYS:O	46:DD:328:GLU:HG2	2.05	0.56
45:DE:10:GLY:O	45:DE:13:GLY:N	2.38	0.56
46:DH:317:PHE:HB2	46:DH:353:ILE:HD13	1.87	0.56
46:DJ:317:PHE:CD1	46:DJ:365:VAL:HG22	2.40	0.56
45:DK:5:ILE:HD12	45:DK:135:PHE:HE1	1.70	0.56
46:DN:208:TYR:CE2	46:DN:225:LEU:HD11	2.40	0.56
46:ED:55:THR:HG23	46:FD:283:ALA:HA	1.87	0.56
45:EE:169:PHE:HB3	45:EE:204:LEU:HD11	1.86	0.56
46:EF:31:ASP:OD1	46:EF:35:THR:N	2.38	0.56
45:EG:77:GLU:HA	45:EG:80:THR:HG22	1.88	0.56
46:EH:268:ILE:HG13	46:EH:300:MET:HG3	1.87	0.56
45:FA:317:MET:HE1	45:FA:351:PHE:HD2	1.70	0.56
46:FB:238:CYS:HA	46:FB:241:ARG:CZ	2.35	0.56
45:FC:259:LEU:HD21	45:FC:316:SER:HB3	1.85	0.56
46:FF:238:CYS:HB2	46:FF:318:ARG:NE	2.20	0.56
46:FJ:54:ALA:HA	46:GJ:283:ALA:HB2	1.87	0.56
46:FJ:86:ARG:CZ	46:GJ:282:ARG:HH12	2.19	0.56
45:FM:322:ASP:OD1	45:FM:373:ARG:NH1	2.32	0.56
46:FN:16:ILE:HD12	46:FN:229:VAL:HG11	1.86	0.56
46:FN:186:THR:HA	46:FN:415:MET:HE1	1.86	0.56
45:GE:9:VAL:HG12	45:GE:68:LEU:HB2	1.86	0.56
46:GF:68:LEU:HB3	46:GF:96:GLY:HA2	1.86	0.56
46:GF:167:PHE:CE2	46:GF:233:MET:HG2	2.40	0.56
45:GG:171:ILE:HG13	45:GG:204:LEU:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GI:210:TYR:HB3	46:GJ:324:LYS:HZ3	1.70	0.56
45:GK:119:LEU:HD11	45:GK:156:ARG:HD3	1.88	0.56
46:GN:178:THR:HB	46:GN:181:GLU:HG3	1.87	0.56
45:HA:55:GLU:OE2	45:HA:57:GLY:N	2.38	0.56
46:HH:113:ILE:HD11	46:HH:151:LEU:HD13	1.86	0.56
46:HH:313:ALA:HB1	46:HH:367:PHE:HE1	1.71	0.56
45:HI:326:LYS:HZ3	46:HL:208:TYR:HB3	1.70	0.56
45:HK:340:THR:HG23	45:HK:341:ILE:HG13	1.87	0.56
46:HN:156:ARG:HD2	46:HN:164:MET:HE3	1.87	0.56
45:IK:8:HIS:HB2	45:IK:67:PHE:HD1	1.69	0.56
46:IN:87:PRO:HG2	45:JK:280:LYS:HG2	1.86	0.56
46:IN:109:GLY:CA	46:IN:147:MET:HE3	2.34	0.56
46:IN:362:LYS:HD3	46:IN:363:MET:HE3	1.85	0.56
45:JA:172:TYR:CG	45:JA:203:MET:HE1	2.40	0.56
45:JA:241:SER:OG	45:JA:249:ASN:OD1	2.22	0.56
46:JH:2:ARG:HB2	46:JH:131:GLN:HG3	1.87	0.56
45:KC:8:HIS:CD2	45:KC:138:PHE:HD2	2.24	0.56
45:KG:221:ARG:HA	46:KH:324:LYS:CE	2.35	0.56
45:KG:335:ILE:HD13	45:KG:338:LYS:HZ3	1.68	0.56
45:KI:326:LYS:HZ3	46:KL:220:PRO:CD	2.18	0.56
46:KJ:318:ARG:NH1	46:KJ:358:PRO:HG3	2.20	0.56
45:LC:51:THR:HG21	45:LC:243:ARG:HD3	1.87	0.56
45:LC:226:ASN:ND2	45:LC:367:ASP:OD2	2.38	0.56
46:LJ:330:MET:HE3	46:LJ:330:MET:HA	1.87	0.56
45:LM:133:GLN:HG2	45:LM:252:ILE:HD12	1.87	0.56
45:MC:326:LYS:HA	45:MC:326:LYS:HE3	1.87	0.56
45:ME:68:LEU:HD23	45:ME:93:ILE:HB	1.88	0.56
45:ME:178:SER:HB3	46:MF:347:ASN:HD21	1.70	0.56
46:MH:318:ARG:HH11	46:MH:358:PRO:HG3	1.71	0.56
46:MH:403:MET:HB2	46:MH:407:GLU:OE2	2.05	0.56
46:MJ:99:ASN:HA	46:MJ:142:GLY:H	1.70	0.56
45:MK:226:ASN:ND2	45:MK:367:ASP:OD2	2.37	0.56
45:MM:210:TYR:CD2	46:MN:324:LYS:HE2	2.41	0.56
46:MN:286:VAL:HB	46:MN:325:GLU:HG2	1.88	0.56
46:ND:222:TYR:HA	46:ND:225:LEU:HD12	1.86	0.56
45:NE:252:ILE:HD12	45:NE:252:ILE:H	1.71	0.56
45:NG:105:ARG:NH2	45:NG:411:GLU:OE2	2.37	0.56
46:NH:68:LEU:HB3	46:NH:96:GLY:HA2	1.87	0.56
45:NI:2:ARG:HB2	45:NI:133:GLN:HE21	1.69	0.56
45:NI:326:LYS:HG3	45:NI:327:ASP:N	2.18	0.56
45:NK:96:LYS:HE2	46:NL:1:MET:HE3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:NL:222:TYR:O	46:NL:226:ASN:ND2	2.23	0.56
46:NN:380:ARG:HG2	46:NN:384:GLN:HE22	1.70	0.56
45:OA:11:GLN:HG3	45:OA:15:GLN:HE22	1.70	0.56
46:OD:372:THR:HG21	46:OD:426:GLN:HB2	1.86	0.56
45:OG:231:ILE:O	45:OG:235:ILE:HG12	2.04	0.56
45:OI:408:TYR:HB3	45:OI:413:MET:HE3	1.87	0.56
46:OJ:296:ALA:HA	46:OJ:299:MET:HE1	1.88	0.56
46:ON:131:GLN:HA	46:ON:162:ARG:HH21	1.70	0.56
46:ON:266:PHE:HE1	46:ON:370:ASN:HD22	1.52	0.56
45:PA:108:TYR:HA	45:PA:112:LYS:HE3	1.87	0.56
46:PD:209:ASP:HB3	46:PD:213:ARG:HH22	1.70	0.56
46:PD:398:TYR:O	46:PD:403:MET:HB2	2.04	0.56
45:PI:119:LEU:HG	45:PI:156:ARG:HD3	1.87	0.56
45:QA:172:TYR:HD2	45:QA:203:MET:HG3	1.70	0.56
45:QA:231:ILE:O	45:QA:235:ILE:HG12	2.04	0.56
46:QB:45:GLU:HG2	46:QB:46:ARG:HG2	1.87	0.56
45:QE:55:GLU:HG3	45:QE:57:GLY:H	1.70	0.56
46:QJ:67:ASP:O	46:QJ:92:PHE:HA	2.05	0.56
45:QK:244:PHE:HB2	45:QK:356:ASN:HD21	1.71	0.56
46:QL:207:LEU:HB3	46:QL:225:LEU:HD12	1.87	0.56
46:RB:66:MET:HE1	46:RB:151:LEU:HD13	1.87	0.56
46:RD:67:ASP:O	46:RD:92:PHE:HA	2.06	0.56
46:RJ:68:LEU:HD13	46:RJ:143:THR:OG1	2.05	0.56
45:RM:292:THR:HG21	45:RM:331:SER:HB3	1.87	0.56
46:SB:135:ILE:HG13	46:SB:152:ILE:HD11	1.86	0.56
46:SD:107:THR:OG1	46:SD:108:GLU:OE1	2.20	0.56
46:SH:97:ALA:O	46:SH:103:LYS:NZ	2.33	0.56
45:SK:63:PRO:HG2	45:SK:87:PHE:HA	1.87	0.56
46:TB:67:ASP:O	46:TB:92:PHE:HA	2.05	0.56
46:TF:22:GLU:HG2	46:TF:81:PHE:HD2	1.70	0.56
45:TG:229:ARG:NH1	45:TG:366:GLY:HA2	2.20	0.56
46:TH:27:GLU:OE2	46:TH:241:ARG:NH2	2.29	0.56
45:TI:33:ASP:HA	45:TI:85:GLN:HE21	1.71	0.56
46:TJ:222:TYR:O	46:TJ:226:ASN:ND2	2.28	0.56
46:TJ:309:ARG:NH2	46:TJ:426:GLN:O	2.31	0.56
46:TJ:321:MET:HB2	45:TK:221:ARG:NH2	2.19	0.56
45:TK:390:ARG:HG3	45:TK:391:LEU:HD12	1.88	0.56
45:TM:75:ILE:HD12	45:TM:92:LEU:HB3	1.87	0.56
45:UA:242:LEU:HD11	45:UA:252:ILE:HG13	1.87	0.56
46:UB:321:MET:HG3	45:UC:221:ARG:NH2	2.16	0.56
45:UG:215:ARG:NH2	45:UG:300:ASN:OD1	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UI:88:HIS:CE1	45:VG:280:LYS:HE3	2.40	0.56
46:UJ:132:GLY:HA3	46:UJ:163:ILE:O	2.05	0.56
46:UJ:267:MET:HE3	46:UJ:374:ILE:HG22	1.88	0.56
45:UK:254:GLU:HG2	46:UL:98:GLY:HA2	1.87	0.56
46:UN:384:GLN:O	46:UN:388:MET:HG2	2.05	0.56
45:VA:9:VAL:HG12	45:VA:146:GLY:HA2	1.87	0.56
45:VA:67:PHE:HB2	45:VA:92:LEU:HD13	1.87	0.56
45:VA:326:LYS:HB2	46:VD:212:PHE:HZ	1.69	0.56
46:VB:73:MET:HA	46:VB:76:VAL:HG12	1.88	0.56
46:VB:158:GLU:HG3	46:VB:159:TYR:CD1	2.40	0.56
46:VB:313:ALA:HB1	46:VB:367:PHE:HE1	1.69	0.56
46:VD:20:PHE:O	46:VD:24:ILE:HG12	2.05	0.56
45:VE:111:GLY:O	45:VE:115:VAL:HG13	2.05	0.56
46:VF:267:MET:HE3	46:VF:301:CYS:HB2	1.87	0.56
46:VH:86:ARG:CZ	46:WH:281:TYR:HB3	2.35	0.56
45:VK:338:LYS:HD3	45:VK:340:THR:HG22	1.87	0.56
45:VM:244:PHE:HB2	45:VM:356:ASN:HD21	1.70	0.56
46:WD:257:LEU:HD21	46:WD:314:SER:HB2	1.88	0.56
46:WF:257:LEU:HD21	46:WF:314:SER:HB2	1.85	0.56
46:WH:5:VAL:HG12	46:WH:62:ARG:HD3	1.87	0.56
45:WK:329:ASN:HA	45:WK:332:ILE:HG12	1.88	0.56
46:WL:68:LEU:HD13	46:WL:147:MET:HE1	1.87	0.56
46:WN:238:CYS:SG	46:WN:239:CYS:N	2.78	0.56
2:0B:114:TYR:CE1	2:0B:122:ILE:HD11	2.41	0.56
9:0N:220:THR:OG1	9:0N:234:GLU:O	2.22	0.56
12:0T:1:MET:HB3	12:0T:6:ILE:HD11	1.86	0.56
16:1B:425:VAL:HG23	16:1B:428:ILE:HD11	1.87	0.56
8:1H:382:ARG:HA	8:1H:385:GLU:OE1	2.06	0.56
9:1N:206:PRO:HG3	9:1N:273:ARG:HH22	1.70	0.56
9:1N:336:ASP:HB3	9:1N:343:LEU:HD21	1.87	0.56
24:1P:298:ASP:OD2	46:TD:320:ARG:NH2	2.38	0.56
11:1S:111:LYS:NZ	46:MF:157:GLU:HG3	2.02	0.56
14:1V:18:PRO:C	14:1V:19:LYS:HD3	2.31	0.56
16:2B:181:LYS:HA	26:2W:272:LYS:HE2	1.88	0.56
5:2E:80:ASP:O	5:2E:83:GLU:HG3	2.05	0.56
29:2G:37:LYS:NZ	46:JJ:77:ARG:HD2	2.20	0.56
20:2K:448:LEU:HB3	20:2K:452:ARG:HH12	1.71	0.56
22:2M:29:THR:O	22:2M:32:LYS:NZ	2.38	0.56
11:2S:86:ALA:N	12:2T:34:PRO:O	2.34	0.56
12:2T:127:GLU:O	45:AG:339:ARG:NH2	2.36	0.56
13:2U:81:GLN:O	13:2U:99:LYS:NZ	2.30	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:3H:205:GLN:NE2	45:AG:82:THR:HB	2.19	0.56
25:3R:289:ASN:ND2	46:DL:219:THR:OG1	2.38	0.56
11:3S:256:LEU:HD13	11:3S:259:PHE:HD2	1.71	0.56
36:5C:137:ARG:NH2	36:5C:173:GLN:O	2.31	0.56
37:5E:176:ASP:OD1	37:5E:177:LEU:N	2.38	0.56
37:5H:9:TYR:HB2	37:5H:10:PRO:HD3	1.87	0.56
34:5R:128:HIS:HE1	34:5R:143:VAL:HG23	1.70	0.56
44:8R:77:UNK:O	44:8R:82:UNK:CB	2.54	0.56
45:AE:102:ASN:ND2	45:AE:407:TRP:O	2.36	0.56
45:AK:288:VAL:CG1	45:AK:327:ASP:HB3	2.35	0.56
46:BJ:178:THR:HG22	46:BJ:180:VAL:H	1.70	0.56
45:BM:174:SER:OG	45:BM:207:GLU:OE1	2.23	0.56
45:CG:121:ARG:HH12	45:CG:124:LYS:HG3	1.70	0.56
45:CG:208:ALA:HA	45:CG:304:LYS:HZ2	1.71	0.56
46:CH:86:ARG:HD2	46:DH:282:ARG:HH12	1.69	0.56
46:CH:257:LEU:HD21	46:CH:314:SER:HB2	1.87	0.56
46:CL:83:GLN:O	46:DL:281:TYR:OH	2.21	0.56
46:DF:86:ARG:NH2	46:EF:281:TYR:O	2.38	0.56
46:DH:165:GLU:HG2	46:DH:198:GLU:HG2	1.87	0.56
45:DI:269:LEU:HD13	45:DI:301:MET:SD	2.46	0.56
46:DL:49:VAL:HG23	46:DL:50:TYR:HD2	1.71	0.56
46:DL:87:PRO:HA	46:DL:90:PHE:CD2	2.40	0.56
46:EJ:334:GLN:HA	46:EJ:341:PHE:HE1	1.70	0.56
46:EL:135:ILE:HG13	46:EL:152:ILE:HD11	1.87	0.56
46:FB:86:ARG:CZ	46:GB:281:TYR:HB3	2.36	0.56
45:GG:175:PRO:HG3	45:GG:390:ARG:NH2	2.21	0.56
46:GN:67:ASP:OD2	46:GN:72:THR:OG1	2.20	0.56
46:GN:389:PHE:HZ	46:GN:405:GLU:HB2	1.71	0.56
45:HA:97:GLU:HG2	45:HA:105:ARG:HH22	1.70	0.56
45:HE:174:SER:HB2	45:HE:177:VAL:O	2.05	0.56
46:HH:304:ASP:OD1	46:HH:306:ARG:NH2	2.38	0.56
45:HI:258:ASN:HD22	46:HL:179:VAL:HG22	1.70	0.56
45:IG:398:MET:HE3	46:IH:346:PRO:HD2	1.87	0.56
46:IH:102:ALA:HB2	46:IH:403:MET:HE2	1.87	0.56
45:IM:287:SER:HB3	45:IM:290:GLU:HG2	1.88	0.56
45:JI:178:SER:HB3	46:JJ:347:ASN:ND2	2.20	0.56
45:JM:181:VAL:HG22	46:JN:256:ASN:OD1	2.04	0.56
46:KD:54:ALA:HB3	46:KD:58:ARG:HG2	1.86	0.56
46:LB:60:VAL:HG11	46:LB:86:ARG:HH11	1.69	0.56
46:LF:91:VAL:HG21	46:LF:116:VAL:HB	1.88	0.56
45:LI:69:ASP:OD1	45:LI:70:LEU:N	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LI:407:TRP:CZ3	46:LJ:255:VAL:HA	2.40	0.56
46:LJ:39:ASP:OD1	46:LJ:40:SER:N	2.39	0.56
46:LL:200:MET:HE2	46:LL:268:ILE:HD13	1.88	0.56
46:MB:276:ARG:HD2	46:MB:279:GLN:HE22	1.70	0.56
45:MK:260:VAL:HB	46:MN:397:TRP:CZ2	2.41	0.56
46:MN:255:VAL:HG13	46:MN:256:ASN:HD22	1.71	0.56
46:NB:2:ARG:HB3	46:NB:131:GLN:HG3	1.86	0.56
46:NH:309:ARG:NH2	46:NH:341:PHE:O	2.38	0.56
45:OA:265:ILE:HG22	45:OA:380:ASN:HD21	1.70	0.56
45:OC:250:VAL:HG13	45:OC:254:GLU:HB2	1.88	0.56
46:OD:148:GLY:O	46:OD:152:ILE:HG12	2.05	0.56
46:OD:211:CYS:HA	46:OD:215:LEU:HB2	1.87	0.56
45:OG:80:THR:O	45:OG:84:ARG:NH2	2.38	0.56
46:OL:12:CYS:O	46:OL:16:ILE:HG12	2.05	0.56
46:OL:96:GLY:O	46:OL:103:LYS:NZ	2.38	0.56
46:ON:372:THR:HA	46:ON:422:TYR:CE2	2.41	0.56
45:PC:210:TYR:HE1	45:PC:227:LEU:HD21	1.71	0.56
46:QF:178:THR:HB	46:QF:181:GLU:HG3	1.87	0.56
46:QH:206:ALA:O	46:QH:210:ILE:HG12	2.05	0.56
46:QH:290:THR:HA	46:QH:293:MET:HG3	1.87	0.56
45:QK:328:VAL:HG11	45:QK:353:VAL:HG21	1.88	0.56
45:RC:185:TYR:O	45:RC:189:LEU:HD13	2.06	0.56
46:RH:5:VAL:HG11	46:RH:123:GLU:HG3	1.87	0.56
46:SB:248:SER:OG	46:SB:350:LYS:NZ	2.31	0.56
46:SB:320:ARG:HG2	46:SB:355:ASP:HB3	1.87	0.56
45:SC:76:ASP:OD1	45:SC:79:ARG:NH1	2.38	0.56
46:SD:286:VAL:HG23	46:SD:287:PRO:HD3	1.88	0.56
45:SE:241:SER:OG	45:SE:250:VAL:O	2.21	0.56
46:TB:135:ILE:HG13	46:TB:152:ILE:HD11	1.87	0.56
46:TL:322:SER:O	45:TM:221:ARG:NH2	2.39	0.56
46:TL:390:ARG:CZ	46:TL:390:ARG:HA	2.35	0.56
46:UF:302:ALA:HB3	46:UF:377:MET:HE1	1.88	0.56
45:UK:352:LYS:HZ1	46:UL:179:VAL:H	1.53	0.56
46:UN:45:GLU:HG3	46:UN:46:ARG:HG2	1.87	0.56
45:VA:260:VAL:HG23	45:VA:265:ILE:O	2.06	0.56
46:VB:119:VAL:O	46:VB:122:LYS:HG2	2.06	0.56
46:VL:86:ARG:HD3	46:VL:87:PRO:HD2	1.87	0.56
45:WA:260:VAL:HB	46:WD:397:TRP:CZ2	2.40	0.56
45:WG:173:PRO:O	45:WG:390:ARG:NH2	2.38	0.56
45:WM:135:PHE:HB2	45:WM:166:LYS:HG2	1.87	0.56
1:0A:126:LYS:HD2	1:0A:126:LYS:H	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0B:24:PRO:HD3	46:JH:276:ARG:HH22	1.70	0.56
3:0C:44:ILE:HD11	3:0C:47:ILE:HD13	1.87	0.56
4:0D:92:ASN:OD1	4:0D:93:GLN:N	2.37	0.56
6:0F:6:MET:HA	6:0F:6:MET:HE3	1.87	0.56
7:0G:18:LEU:HD11	45:IK:76:ASP:HB3	1.88	0.56
11:0S:236:ARG:C	11:0S:236:ARG:HD2	2.31	0.56
12:0T:239:SER:O	12:0T:243:LYS:NZ	2.39	0.56
8:1H:58:LYS:O	8:1H:62:ILE:HG12	2.05	0.56
18:1I:183:ILE:HD11	46:KH:77:ARG:HG2	1.86	0.56
20:1K:91:HIS:CE1	20:1K:95:LYS:HE3	2.40	0.56
21:1L:575:LYS:NZ	45:AE:84:ARG:HE	2.04	0.56
23:1O:74:LEU:HD23	23:1O:77:LYS:HZ3	1.70	0.56
25:1R:101:ARG:H	25:1R:194:THR:HG21	1.69	0.56
11:1S:271:ASP:O	10:2Q:36:ARG:NH1	2.38	0.56
12:1T:191:PHE:CD2	12:1T:192:VAL:HG13	2.40	0.56
13:1U:69:TYR:CZ	13:1U:134:VAL:HG21	2.41	0.56
1:2A:71:TYR:OH	46:AJ:320:ARG:HB2	2.05	0.56
16:2B:214:LEU:O	16:2B:218:ILE:HD12	2.04	0.56
21:2L:549:LEU:HD11	45:BM:367:ASP:HA	1.88	0.56
24:2P:478:TRP:HD1	24:2P:481:ARG:HE	1.51	0.56
26:2W:189:ARG:H	45:KM:46:ASP:CG	2.12	0.56
16:3B:51:LYS:O	16:3B:55:LYS:NZ	2.39	0.56
23:3O:373:ARG:HA	23:3O:376:GLN:OE1	2.05	0.56
23:3O:463:LEU:O	23:3O:467:LYS:HG2	2.05	0.56
13:3U:329:PRO:HG2	13:3U:332:TYR:HB3	1.87	0.56
34:4R:414:ASN:OD1	34:4R:415:LYS:N	2.38	0.56
36:5A:135:ASN:O	36:5A:138:ARG:HB2	2.06	0.56
37:5H:118:PRO:O	45:OM:282:TYR:OH	2.11	0.56
40:6G:284:LYS:O	40:6G:288:LYS:NZ	2.38	0.56
45:AA:175:PRO:HG2	45:AA:304:LYS:HD3	1.85	0.56
45:AE:184:PRO:O	45:AE:188:ILE:HG12	2.06	0.56
45:AE:292:THR:HG21	45:AE:331:SER:HB3	1.87	0.56
45:AE:322:ASP:OD1	45:AE:373:ARG:NH1	2.38	0.56
46:AN:318:ARG:HE	46:AN:358:PRO:HG3	1.71	0.56
45:BA:209:ILE:HA	45:BA:212:ILE:HD12	1.87	0.56
45:BC:175:PRO:HA	45:BC:390:ARG:NH1	2.21	0.56
46:BF:19:LYS:HD2	46:BF:22:GLU:OE1	2.05	0.56
46:BJ:91:VAL:HG21	46:BJ:116:VAL:HB	1.88	0.56
46:BJ:148:GLY:O	46:BJ:152:ILE:HG12	2.05	0.56
45:BM:221:ARG:HD2	46:BN:322:SER:HB3	1.87	0.56
46:CD:267:MET:HG3	46:CD:299:MET:SD	2.46	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CF:41:ASP:OD2	46:CF:42:LEU:N	2.38	0.56
45:CG:54:SER:HB3	45:CG:64:ARG:HH21	1.71	0.56
46:CL:282:ARG:NH2	46:CL:292:GLN:OE1	2.39	0.56
45:DG:68:LEU:HD23	45:DG:93:ILE:HB	1.87	0.56
45:DG:255:PHE:HA	45:DG:259:LEU:HD23	1.86	0.56
46:EB:116:VAL:HA	46:EB:119:VAL:HG12	1.87	0.56
46:EH:394:PHE:HA	46:EH:397:TRP:CZ3	2.41	0.56
45:EI:76:ASP:OD1	45:EI:79:ARG:NH2	2.36	0.56
46:EL:293:MET:HE2	46:EL:367:PHE:HB3	1.88	0.56
45:EM:141:VAL:HG11	45:EM:172:TYR:HD1	1.71	0.56
45:FE:90:GLU:O	45:FE:121:ARG:NH2	2.39	0.56
46:FN:221:THR:HG23	46:FN:224:ASP:H	1.70	0.56
46:GD:48:ASN:O	46:GD:62:ARG:NH1	2.37	0.56
45:GE:335:ILE:O	45:GE:338:LYS:HB2	2.05	0.56
46:GL:105:HIS:CE1	46:GL:150:LEU:HD12	2.41	0.56
45:HA:260:VAL:HB	46:HD:397:TRP:CZ2	2.41	0.56
46:HD:190:HIS:ND1	46:HD:411:ALA:HA	2.21	0.56
46:HD:282:ARG:NH1	46:HD:288:GLU:OE2	2.39	0.56
46:HF:293:MET:SD	46:HF:365:VAL:HG11	2.46	0.56
46:HN:113:ILE:HD13	46:HN:150:LEU:HD22	1.87	0.56
46:HN:267:MET:HE3	46:HN:301:CYS:HB2	1.88	0.56
46:ID:380:ARG:NH1	46:ID:384:GLN:OE1	2.39	0.56
45:IG:96:LYS:HE3	45:IG:96:LYS:HA	1.87	0.56
46:IL:67:ASP:O	46:IL:92:PHE:HA	2.05	0.56
46:IL:226:ASN:HD21	49:IL:501:GDP:HN1	1.52	0.56
45:JA:129:CYS:SG	45:JA:130:THR:N	2.79	0.56
46:JB:406:MET:HE3	46:NB:306:ARG:HB2	1.86	0.56
45:JC:335:ILE:HA	45:JC:338:LYS:NZ	2.20	0.56
45:JK:279:GLU:OE2	45:JK:280:LYS:HG3	2.06	0.56
46:JL:31:ASP:OD1	46:JL:35:THR:N	2.33	0.56
46:KB:407:GLU:HA	46:KB:410:GLU:OE2	2.06	0.56
45:KE:254:GLU:OE1	46:KH:98:GLY:HA2	2.06	0.56
46:KF:326:VAL:O	46:KF:330:MET:HG2	2.06	0.56
45:KG:210:TYR:HE2	45:KG:227:LEU:HD11	1.69	0.56
46:KN:375:GLN:O	46:KN:379:LYS:HG3	2.05	0.56
45:LG:251:ASP:OD1	45:LG:252:ILE:N	2.38	0.56
45:LM:394:LYS:HE2	46:LN:346:PRO:HG3	1.87	0.56
45:ME:188:ILE:HD12	45:ME:425:LEU:HD11	1.87	0.56
46:MJ:322:SER:OG	46:MJ:325:GLU:OE1	2.24	0.56
45:MK:401:LYS:HZ1	46:ML:344:TRP:CG	2.23	0.56
46:NH:361:LEU:HD23	46:NH:364:ALA:HB2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OB:131:GLN:HA	46:OB:162:ARG:HH21	1.71	0.56
46:OB:254:ALA:O	46:OB:258:ILE:HG22	2.05	0.56
45:OC:224:TYR:HB2	46:OD:245:GLN:HE22	1.71	0.56
45:OG:90:GLU:H	45:PG:280:LYS:HZ1	1.54	0.56
45:OM:275:ILE:O	45:OM:275:ILE:HG13	2.06	0.56
46:PH:49:VAL:HG23	46:PH:50:TYR:HD2	1.70	0.56
46:PJ:249:ASP:H	46:PJ:252:LYS:HG3	1.69	0.56
46:QD:309:ARG:NH2	46:QD:426:GLN:O	2.31	0.56
46:QF:12:CYS:O	46:QF:16:ILE:HD12	2.05	0.56
46:RB:10:GLY:O	46:RB:14:ASN:ND2	2.38	0.56
46:RJ:316:LEU:HD13	46:RJ:352:SER:HB2	1.86	0.56
45:RK:68:LEU:HD13	45:RK:93:ILE:HB	1.87	0.56
46:SF:269:GLY:C	46:SF:293:MET:HE1	2.31	0.56
45:SG:192:HIS:CD2	45:SG:421:ALA:HA	2.41	0.56
45:SG:247:ALA:HB3	45:SG:355:ILE:HD11	1.87	0.56
46:SL:97:ALA:HB3	46:SL:143:THR:HB	1.88	0.56
45:SM:270:SER:OG	45:SM:302:MET:SD	2.60	0.56
45:TA:323:VAL:HB	45:TA:373:ARG:NH1	2.21	0.56
45:TC:77:GLU:HA	45:TC:80:THR:HG22	1.86	0.56
46:TD:9:GLY:HA3	46:TD:66:MET:HE2	1.88	0.56
45:TK:201:ALA:HB3	45:TK:267:PHE:HD1	1.69	0.56
46:UB:334:GLN:NE2	46:UB:348:ASN:OD1	2.39	0.56
45:UE:101:ASN:HA	45:UE:144:GLY:H	1.70	0.56
45:VA:407:TRP:HE1	46:VB:258:ILE:HG23	1.71	0.56
46:VB:134:GLN:N	46:VB:134:GLN:OE1	2.39	0.56
46:VD:337:ASN:HB3	46:VD:340:TYR:HB2	1.87	0.56
46:VL:299:MET:HA	46:VL:299:MET:HE3	1.87	0.56
45:WG:335:ILE:HA	45:WG:338:LYS:HE2	1.87	0.56
46:WH:344:TRP:HB3	46:WH:430:ALA:HB2	1.87	0.56
45:WK:101:ASN:HA	45:WK:144:GLY:H	1.71	0.56
45:WM:284:GLU:HG3	45:WM:286:LEU:HD22	1.87	0.56
45:CE:8:HIS:HB2	45:CE:67:PHE:HD1	1.69	0.56
45:DC:52:PHE:HZ	45:DC:239:THR:HG21	1.71	0.56
12:0T:280:GLN:OE1	13:0U:47:SER:OG	2.19	0.56
1:1A:25:LYS:HG2	15:1X:76:GLU:OE1	2.05	0.56
16:1B:77:ASP:OD1	15:1X:115:LYS:NZ	2.36	0.56
16:1B:431:ARG:NH2	16:1B:496:PHE:O	2.36	0.56
20:1K:168:GLU:OE1	28:2F:46:GLN:NE2	2.39	0.56
21:1L:781:MET:HA	46:BD:320:ARG:NH1	2.21	0.56
10:1Q:77:VAL:HG23	10:1Q:131:GLN:HE21	1.70	0.56
25:1R:503:ASP:O	25:1R:506:THR:OG1	2.16	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:1S:273:ILE:HG21	46:WF:122:LYS:HD3	1.87	0.56
13:1U:557:VAL:O	13:1U:571:GLY:N	2.38	0.56
1:2A:117:HIS:C	1:2A:118:LYS:HD2	2.31	0.56
16:2B:218:ILE:O	16:2B:222:THR:OG1	2.24	0.56
5:2E:88:ILE:HG12	5:2E:91:GLU:HB3	1.86	0.56
5:2E:96:ARG:NH1	5:2E:172:SER:OG	2.35	0.56
21:2L:523:GLN:HB3	46:BN:320:ARG:NH1	2.20	0.56
23:2O:263:GLU:HA	23:2O:266:GLU:OE1	2.06	0.56
14:2V:235:VAL:HA	14:2V:238:LYS:HE2	1.87	0.56
15:2X:60:GLU:OE2	15:2X:64:ARG:NH2	2.39	0.56
1:3A:35:TYR:O	46:MN:320:ARG:NH1	2.38	0.56
16:3B:217:LYS:HD2	16:3B:220:GLN:HE22	1.70	0.56
27:3C:266:GLN:HB2	27:3C:269:TYR:HD2	1.69	0.56
14:3V:93:MET:HE3	14:3V:93:MET:HA	1.87	0.56
30:4H:183:PHE:HB3	46:AL:227:HIS:ND1	2.21	0.56
36:5D:45:TYR:CZ	36:5D:56:ILE:HG13	2.41	0.56
37:5H:44:ARG:NH2	45:NK:56:THR:O	2.38	0.56
10:6Q:5:THR:O	10:6Q:7:GLN:NE2	2.39	0.56
45:AA:33:ASP:HA	45:AA:85:GLN:HE21	1.71	0.56
45:AE:111:GLY:O	45:AE:115:VAL:HG13	2.05	0.56
45:AK:9:VAL:HG12	45:AK:68:LEU:HB2	1.87	0.56
45:BA:223:THR:HG23	45:BA:225:THR:H	1.71	0.56
45:BI:60:LYS:NZ	45:CI:282:TYR:O	2.38	0.56
45:BM:322:ASP:OD1	45:BM:373:ARG:NH1	2.38	0.56
45:CA:208:ALA:O	45:CA:212:ILE:HG12	2.06	0.56
45:CA:254:GLU:N	45:CA:254:GLU:OE2	2.36	0.56
45:CA:284:GLU:HG2	45:CA:286:LEU:HD22	1.88	0.56
45:CA:308:ARG:HH22	45:CA:342:GLN:HE22	1.54	0.56
45:CC:101:ASN:HA	45:CC:144:GLY:H	1.70	0.56
46:CD:328:GLU:OE2	45:CE:214:ARG:NH2	2.39	0.56
45:DA:242:LEU:HD11	45:DA:252:ILE:HG13	1.86	0.56
45:DA:340:THR:HG23	45:DA:341:ILE:HG13	1.88	0.56
46:DD:208:TYR:HB3	45:DC:326:LYS:HZ1	1.71	0.56
45:DK:141:VAL:HG11	45:DK:172:TYR:HD1	1.69	0.56
46:DL:67:ASP:OD1	46:DL:68:LEU:N	2.39	0.56
46:DL:198:GLU:OE2	46:DL:254:ALA:HA	2.06	0.56
46:ED:3:GLU:HB2	46:ED:62:ARG:HH12	1.71	0.56
46:FF:226:ASN:HD21	49:FF:501:GDP:HN1	1.53	0.56
46:FL:256:ASN:ND2	46:FL:350:LYS:HE3	2.20	0.56
46:FN:31:ASP:OD2	46:FN:37:HIS:ND1	2.38	0.56
45:GA:292:THR:HG21	45:GA:331:SER:HB3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GB:198:GLU:HG2	46:GB:266:PHE:HE2	1.71	0.56
46:HB:87:PRO:HA	46:HB:90:PHE:HD2	1.71	0.56
46:HB:235:GLY:HA2	46:HB:318:ARG:NH1	2.21	0.56
45:HC:71:GLU:HA	46:HD:2:ARG:HH22	1.70	0.56
45:HE:171:ILE:O	45:HE:171:ILE:HG13	2.05	0.56
45:IC:254:GLU:HG2	46:IF:98:GLY:HA2	1.87	0.56
46:ID:99:ASN:HA	46:ID:142:GLY:HA3	1.88	0.56
46:IH:25:SER:OG	46:IH:30:ILE:O	2.23	0.56
45:IK:88:HIS:CE1	45:IK:90:GLU:HG3	2.41	0.56
46:IN:156:ARG:NH2	46:IN:197:ASP:OD2	2.34	0.56
46:JD:73:MET:HA	46:JD:76:VAL:HG12	1.88	0.56
46:JH:410:GLU:OE1	46:NH:340:TYR:OH	2.11	0.56
45:JM:242:LEU:HD11	45:JM:252:ILE:HG23	1.86	0.56
45:KC:210:TYR:CE1	45:KC:227:LEU:HD21	2.41	0.56
46:KH:11:GLN:NE2	49:KH:501:GDP:O1A	2.39	0.56
46:KH:239:CYS:SG	46:KH:247:ASN:HA	2.46	0.56
45:KI:172:TYR:CD1	45:KI:203:MET:HE1	2.40	0.56
45:KI:203:MET:HE3	45:KI:203:MET:HA	1.86	0.56
46:KL:107:THR:OG1	46:KL:108:GLU:OE1	2.22	0.56
46:KN:51:TYR:HB3	46:KN:59:TYR:HB3	1.86	0.56
45:LC:103:PHE:HB2	45:LC:186:ASN:HB3	1.86	0.56
46:LD:299:MET:HE3	46:LD:299:MET:HA	1.88	0.56
46:LF:316:LEU:HD13	46:LF:352:SER:HB2	1.87	0.56
46:LJ:5:VAL:HG12	46:LJ:62:ARG:HD3	1.88	0.56
46:LL:200:MET:HE3	46:LL:268:ILE:HG21	1.87	0.56
46:LN:97:ALA:HB2	46:LN:143:THR:HB	1.87	0.56
46:LN:208:TYR:CE1	46:LN:225:LEU:HD21	2.40	0.56
46:MB:101:TRP:HB2	46:MB:184:ASN:HB3	1.87	0.56
46:MJ:49:VAL:HG21	46:MJ:241:ARG:HG2	1.87	0.56
45:NA:49:PHE:HB2	45:NA:53:PHE:HB2	1.87	0.56
46:NB:200:MET:HE1	46:NB:266:PHE:HD2	1.71	0.56
46:ND:232:ALA:HB1	46:ND:268:ILE:HD12	1.86	0.56
45:NG:271:SER:OG	45:NG:301:MET:SD	2.64	0.56
46:NN:67:ASP:O	46:NN:92:PHE:HA	2.05	0.56
46:OD:174:LYS:HB3	46:OD:205:GLU:OE2	2.06	0.56
46:OD:293:MET:HE2	46:OD:367:PHE:HB2	1.87	0.56
46:ON:379:LYS:O	46:ON:383:GLU:HG2	2.05	0.56
45:PA:174:SER:HB2	45:PA:177:VAL:O	2.05	0.56
45:PE:5:ILE:HD11	45:PE:135:PHE:CE2	2.41	0.56
45:PI:205:ASP:OD2	45:PI:303:ALA:HA	2.05	0.56
46:PN:41:ASP:OD1	46:PN:42:LEU:N	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QI:352:LYS:HE2	46:QJ:179:VAL:HG13	1.88	0.56
45:RA:223:THR:H	45:RA:226:ASN:ND2	2.04	0.56
46:RD:334:GLN:HA	46:RD:341:PHE:HE1	1.69	0.56
45:RK:205:ASP:OD2	45:RK:303:ALA:HA	2.06	0.56
45:RK:288:VAL:HA	45:RK:291:ILE:HG12	1.88	0.56
46:SD:269:GLY:C	46:SD:293:MET:HE1	2.30	0.56
45:SG:220:GLU:OE2	45:SG:221:ARG:NE	2.38	0.56
45:SK:75:ILE:HG12	45:SK:79:ARG:NH1	2.20	0.56
45:TA:298:PRO:HA	45:TA:301:MET:HE1	1.88	0.56
45:TI:56:THR:OG1	45:UI:282:TYR:O	2.23	0.56
45:TI:326:LYS:HG2	46:TJ:220:PRO:HD2	1.87	0.56
46:TJ:226:ASN:HD21	49:TJ:501:GDP:HN1	1.51	0.56
46:UB:248:SER:HA	46:UB:252:LYS:HD2	1.88	0.56
45:UE:111:GLY:O	45:UE:115:VAL:HG13	2.05	0.56
45:UE:346:TRP:CD1	46:UF:391:ARG:HG3	2.41	0.56
46:UF:274:THR:OG1	46:UF:278:SER:OG	2.16	0.56
46:UH:86:ARG:HD3	46:UH:87:PRO:HD2	1.88	0.56
46:UN:139:LEU:HD22	46:UN:170:VAL:HG12	1.88	0.56
45:VA:286:LEU:O	45:VA:373:ARG:NH2	2.39	0.56
45:VA:346:TRP:CD1	46:VD:391:ARG:HG3	2.40	0.56
46:VD:64:ILE:HA	46:VD:89:ASN:HB3	1.87	0.56
46:VD:332:ASN:O	46:VD:336:LYS:HG2	2.05	0.56
46:VH:226:ASN:HD21	49:VH:501:GDP:HN1	1.53	0.56
45:WA:80:THR:O	45:WA:84:ARG:NH2	2.34	0.56
46:WB:221:THR:HG23	46:WB:224:ASP:H	1.71	0.56
45:WC:265:ILE:HG22	45:WC:380:ASN:HD21	1.71	0.56
46:WH:156:ARG:NH1	46:WH:195:ASN:O	2.39	0.56
46:WL:382:ALA:HB2	46:WL:415:MET:HE1	1.86	0.56
45:CE:140:SER:OG	47:CE:501:GTP:O2B	2.24	0.56
7:0G:91:VAL:HG13	46:JN:279:GLN:HB3	1.86	0.56
13:0U:386:ILE:HB	13:0U:400:ILE:HB	1.88	0.56
16:1B:43:ARG:NH2	16:1B:78:GLU:HA	2.21	0.56
4:1D:37:GLN:HG2	4:1D:62:THR:HG21	1.88	0.56
19:1J:215:ASN:ND2	19:1J:218:ALA:O	2.39	0.56
20:1K:158:THR:HG22	45:GC:370:LYS:HZ2	1.71	0.56
13:1U:558:LYS:HD3	13:1U:567:LYS:HE2	1.87	0.56
26:1W:68:LEU:HD12	15:4X:138:LYS:HG2	1.87	0.56
23:2O:405:GLU:OE1	46:VD:276:ARG:NH2	2.39	0.56
13:2U:5:LEU:N	13:2U:570:SER:O	2.38	0.56
27:3C:119:LYS:HZ2	27:3C:121:ALA:HB3	1.71	0.56
5:3E:131:LYS:HZ1	5:3E:142:VAL:CG2	2.18	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:3U:385:LYS:HB2	13:3U:387:ARG:HH12	1.68	0.56
37:5E:95:ASP:O	37:5E:98:LYS:HG3	2.06	0.56
37:5G:67:ARG:HD2	37:5G:68:PRO:O	2.05	0.56
10:5Q:48:GLU:HG3	10:5Q:161:ARG:HG2	1.88	0.56
34:6R:450:ASP:OD1	34:6R:452:THR:OG1	2.24	0.56
46:AD:293:MET:HE3	46:AD:294:PHE:CE1	2.41	0.56
45:AG:18:ASN:OD1	45:AG:19:ALA:N	2.39	0.56
45:AK:55:GLU:CD	45:AK:57:GLY:H	2.13	0.56
46:AN:6:HIS:NE2	46:AN:8:GLN:OE1	2.39	0.56
46:AN:156:ARG:NH2	46:AN:197:ASP:OD2	2.38	0.56
46:BF:73:MET:HA	46:BF:76:VAL:HG22	1.86	0.56
46:BF:139:LEU:HD13	46:BF:168:SER:HB3	1.86	0.56
46:BF:178:THR:HB	46:BF:181:GLU:HG3	1.88	0.56
45:BG:209:ILE:HA	45:BG:212:ILE:HG22	1.87	0.56
45:BI:76:ASP:OD2	46:BJ:46:ARG:NH2	2.39	0.56
46:CF:282:ARG:NH2	46:CF:292:GLN:OE1	2.29	0.56
45:DA:135:PHE:HB2	45:DA:166:LYS:HG2	1.87	0.56
46:DH:375:GLN:HG3	46:DH:419:VAL:HG13	1.87	0.56
45:DI:7:ILE:HB	45:DI:137:VAL:HG12	1.87	0.56
45:DI:326:LYS:NZ	46:DJ:220:PRO:O	2.31	0.56
46:DL:158:GLU:HG3	46:DL:159:TYR:CD1	2.41	0.56
45:EE:306:ASP:OD1	45:EE:308:ARG:NE	2.34	0.56
46:EF:183:TYR:CE2	46:EF:388:MET:HB3	2.39	0.56
46:EN:386:THR:OG1	46:EN:390:ARG:NH2	2.38	0.56
46:FB:67:ASP:O	46:FB:92:PHE:HA	2.05	0.56
45:FI:88:HIS:HB3	45:FI:91:GLN:HG2	1.88	0.56
45:GE:398:MET:HG2	46:GF:345:ILE:HG22	1.86	0.56
46:GF:7:ILE:HG23	46:GF:135:ILE:HD13	1.87	0.56
46:GN:385:PHE:HE2	46:GN:412:GLU:HB3	1.71	0.56
45:HA:346:TRP:CD1	46:HD:391:ARG:HG3	2.41	0.56
45:HE:399:TYR:O	45:HE:402:ARG:NH1	2.39	0.56
46:HJ:156:ARG:HH11	46:HJ:164:MET:HE1	1.71	0.56
46:HN:318:ARG:HB3	46:HN:357:PRO:HA	1.88	0.56
46:IB:6:HIS:O	46:IB:63:ALA:HA	2.05	0.56
46:IB:138:SER:HA	46:IB:169:VAL:HB	1.88	0.56
45:IC:54:SER:HB3	45:IC:64:ARG:HH21	1.70	0.56
46:ID:304:ASP:HB3	46:ID:307:HIS:HB2	1.88	0.56
45:IE:175:PRO:HB2	45:IE:176:GLN:OE1	2.06	0.56
45:JC:141:VAL:HG11	45:JC:172:TYR:CD1	2.40	0.56
45:JK:308:ARG:NH1	45:JK:340:THR:HG22	2.21	0.56
45:KE:88:HIS:CD2	45:KE:90:GLU:HG2	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KG:394:LYS:NZ	46:KH:346:PRO:HG2	2.20	0.56
45:KI:328:VAL:O	45:KI:332:ILE:HG12	2.05	0.56
45:KK:414:GLU:CD	45:KK:416:GLY:H	2.13	0.56
46:KN:213:ARG:NH1	46:KN:297:LYS:HE2	2.20	0.56
46:LL:33:THR:O	46:LL:58:ARG:NH2	2.39	0.56
46:LN:67:ASP:OD1	46:LN:68:LEU:N	2.38	0.56
46:MB:119:VAL:HA	46:MB:122:LYS:HE2	1.87	0.56
46:NB:350:LYS:HE3	46:NB:350:LYS:HA	1.87	0.56
45:NE:89:PRO:HG2	45:OE:280:LYS:HZ3	1.70	0.56
45:OA:210:TYR:CZ	46:OB:324:LYS:HG2	2.41	0.56
45:OE:89:PRO:HG3	45:PE:280:LYS:HG3	1.88	0.56
46:OH:214:THR:O	46:OH:275:SER:OG	2.16	0.56
46:ON:6:HIS:CD2	46:ON:134:GLN:HE21	2.17	0.56
45:PA:193:SER:O	45:PA:197:HIS:ND1	2.37	0.56
46:PF:222:TYR:O	46:PF:226:ASN:ND2	2.25	0.56
45:PK:98:ASP:O	45:PK:105:ARG:NH1	2.38	0.56
46:PL:388:MET:N	46:PL:388:MET:HE2	2.20	0.56
45:QA:140:SER:OG	47:QA:501:GTP:O2B	2.24	0.56
46:QB:86:ARG:HH22	46:RB:280:GLN:NE2	2.04	0.56
46:QB:390:ARG:HD2	46:QB:391:ARG:HG2	1.87	0.56
46:QD:190:HIS:CE1	46:QD:414:ASN:HD22	2.23	0.56
45:QE:89:PRO:HD2	45:RE:280:LYS:HE3	1.87	0.56
46:QH:309:ARG:NH2	46:QH:426:GLN:O	2.32	0.56
46:QL:309:ARG:NH2	46:QL:426:GLN:O	2.35	0.56
45:RC:124:LYS:NZ	45:SC:294:SER:OG	2.28	0.56
45:RG:206:ASN:OD1	47:RG:501:GTP:N2	2.39	0.56
45:RM:66:VAL:HG11	45:RM:122:ILE:HD11	1.87	0.56
45:RM:117:LEU:O	45:RM:121:ARG:HG2	2.06	0.56
45:RM:284:GLU:HG3	45:RM:286:LEU:HD22	1.86	0.56
45:SA:60:LYS:NZ	45:SA:85:GLN:O	2.28	0.56
46:SD:258:ILE:HG13	45:SE:407:TRP:HZ2	1.70	0.56
45:SE:389:SER:O	45:SE:393:HIS:ND1	2.33	0.56
46:SN:207:LEU:HB3	46:SN:225:LEU:HD22	1.87	0.56
45:TC:75:ILE:HD12	45:TC:92:LEU:HB3	1.88	0.56
46:TD:55:THR:HG23	46:UD:283:ALA:HA	1.88	0.56
46:TD:403:MET:HE1	46:TD:408:PHE:CE1	2.41	0.56
46:TL:32:PRO:O	46:TL:83:GLN:NE2	2.38	0.56
46:TL:68:LEU:HB2	46:TL:147:MET:HE1	1.87	0.56
46:TL:423:GLN:NE2	46:TL:427:ASP:OD2	2.35	0.56
45:TM:119:LEU:O	45:TM:123:ARG:HG2	2.06	0.56
46:UB:316:LEU:O	46:UB:365:VAL:HA	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VD:282:ARG:NH2	46:VD:292:GLN:OE1	2.38	0.56
45:VK:21:TRP:CZ2	45:VK:65:ALA:HB2	2.41	0.56
45:WC:280:LYS:HE3	45:WC:283:HIS:HB2	1.87	0.56
46:WF:8:GLN:OE1	46:WF:14:ASN:ND2	2.38	0.56
46:WF:327:ASP:OD1	46:WF:328:GLU:N	2.38	0.56
46:WH:335:ASN:OD1	46:WH:336:LYS:N	2.39	0.56
46:WJ:266:PHE:CE1	46:WJ:370:ASN:HB2	2.40	0.56
46:WL:418:LEU:O	46:WL:422:TYR:HB2	2.05	0.56
45:CE:296:PHE:HE1	45:CE:377:MET:HG3	1.71	0.56
4:0D:225:ARG:CZ	34:7R:598:TRP:HB3	2.35	0.56
5:1E:128:ASN:O	5:1E:133:LYS:NZ	2.37	0.56
18:1I:78:MET:HA	18:1I:78:MET:HE3	1.87	0.56
22:1M:154:ASP:OD1	22:1M:155:LEU:N	2.32	0.56
23:1O:266:GLU:HB3	45:UA:282:TYR:CE1	2.40	0.56
27:2C:220:LYS:NZ	45:KI:367:ASP:OD1	2.38	0.56
4:2D:82:TYR:HB3	46:EJ:40:SER:HB3	1.88	0.56
5:2E:44:ASP:HB3	5:2E:47:GLU:OE1	2.06	0.56
20:2K:239:MET:HA	20:2K:242:LYS:NZ	2.21	0.56
23:2O:271:ALA:O	23:2O:275:LYS:HG2	2.05	0.56
25:2R:387:ASP:HB3	25:2R:390:ASP:HB3	1.88	0.56
13:2U:74:GLN:NE2	13:2U:83:ASP:OD1	2.28	0.56
13:2U:148:VAL:HG23	13:2U:167:ASN:HB2	1.87	0.56
27:3C:114:ILE:HD13	27:3C:127:LEU:HG	1.87	0.56
27:3C:263:ILE:HG22	27:3C:265:ILE:HG13	1.86	0.56
31:3I:225:ASN:O	31:3I:225:ASN:ND2	2.37	0.56
23:3O:232:GLY:O	23:3O:236:ILE:HG23	2.06	0.56
13:3U:396:LEU:HD13	13:3U:399:VAL:HG23	1.87	0.56
15:3X:137:GLN:HB3	15:3X:139:ARG:HH11	1.71	0.56
37:5F:54:LYS:HG2	46:OF:227:HIS:CG	2.41	0.56
37:5H:87:LEU:HD22	37:5H:92:GLN:HB3	1.87	0.56
10:5Q:22:LEU:HB2	10:5Q:25:TRP:HB2	1.88	0.56
34:6R:430:LEU:HD22	34:6R:442:PHE:CE1	2.41	0.56
45:AC:115:VAL:HG11	45:AC:152:LEU:HD23	1.88	0.56
45:AG:101:ASN:HA	45:AG:144:GLY:H	1.71	0.56
46:AH:207:LEU:HD13	46:AH:225:LEU:HB3	1.86	0.56
45:AM:398:MET:HE1	46:AN:345:ILE:HA	1.88	0.56
46:BD:58:ARG:NH2	46:CB:281:TYR:HD2	2.04	0.56
45:BE:145:THR:OG1	47:BE:501:GTP:O1B	2.24	0.56
46:BJ:107:THR:HG23	46:BJ:401:GLU:OE1	2.06	0.56
45:CA:133:GLN:HB3	45:CA:252:ILE:HG21	1.86	0.56
46:CD:310:TYR:HE2	46:CD:367:PHE:HZ	1.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CH:173:PRO:HD2	46:CH:380:ARG:HH11	1.70	0.56
45:CI:54:SER:HB3	45:CI:64:ARG:HH21	1.69	0.56
46:CL:229:VAL:O	46:CL:233:MET:HG2	2.06	0.56
46:DB:63:ALA:O	46:DB:89:ASN:ND2	2.38	0.56
46:DJ:92:PHE:HD1	46:DJ:94:GLN:HE22	1.53	0.56
46:DJ:174:LYS:HD2	46:DJ:205:GLU:CD	2.31	0.56
45:EA:242:LEU:HD11	45:EA:252:ILE:HG13	1.87	0.56
45:EM:91:GLN:HG2	45:EM:121:ARG:HE	1.70	0.56
45:FG:141:VAL:HG11	45:FG:172:TYR:HD1	1.71	0.56
45:FI:284:GLU:HG2	45:FI:286:LEU:HD12	1.87	0.56
46:FJ:294:PHE:CD1	46:FJ:333:VAL:HG11	2.41	0.56
45:GC:238:LEU:HD21	45:GC:255:PHE:HE2	1.71	0.56
46:GJ:67:ASP:OD1	46:GJ:68:LEU:N	2.39	0.56
45:GK:2:ARG:HB2	45:GK:133:GLN:HE22	1.70	0.56
45:HC:328:VAL:HG11	45:HC:353:VAL:HG21	1.88	0.56
45:HI:217:LEU:HB3	45:HI:219:ILE:HG13	1.88	0.56
45:HI:226:ASN:ND2	45:HI:367:ASP:OD2	2.39	0.56
46:HJ:73:MET:HA	46:HJ:76:VAL:HG12	1.87	0.56
46:IN:99:ASN:HA	46:IN:142:GLY:H	1.71	0.56
46:JD:66:MET:HG2	46:JD:147:MET:HE3	1.88	0.56
45:KE:214:ARG:HH21	45:KE:215:ARG:NH2	2.04	0.56
46:KH:268:ILE:HG13	46:KH:300:MET:HE3	1.88	0.56
45:KI:244:PHE:HB2	45:KI:356:ASN:HD21	1.69	0.56
45:KK:239:THR:HG22	45:KK:243:ARG:HE	1.69	0.56
46:LH:190:HIS:NE2	46:LH:410:GLU:OE1	2.39	0.56
45:NA:74:VAL:O	45:NA:78:VAL:HG23	2.05	0.56
45:NE:141:VAL:HG11	45:NE:172:TYR:CD1	2.40	0.56
45:NG:239:THR:OG1	45:NG:243:ARG:NH2	2.35	0.56
46:NH:148:GLY:O	46:NH:152:ILE:HD12	2.06	0.56
46:OB:412:GLU:HA	46:OB:415:MET:HE2	1.86	0.56
45:OE:329:ASN:HD22	46:OH:208:TYR:HE2	1.53	0.56
45:OG:121:ARG:HD2	45:OG:124:LYS:HZ1	1.71	0.56
46:OL:150:LEU:O	46:OL:154:LYS:HG2	2.06	0.56
45:OM:139:ASN:ND2	45:OM:146:GLY:O	2.36	0.56
46:QH:207:LEU:HB3	46:QH:225:LEU:HD22	1.88	0.56
45:QM:208:ALA:O	45:QM:212:ILE:HG12	2.06	0.56
45:RA:284:GLU:HG2	45:RA:286:LEU:HD22	1.87	0.56
45:RC:296:PHE:HE1	45:RC:377:MET:HE2	1.70	0.56
46:RD:74:ASP:OD1	46:RD:77:ARG:NH2	2.32	0.56
46:RL:327:ASP:HA	46:RL:330:MET:HE3	1.87	0.56
46:SD:63:ALA:O	46:SD:89:ASN:ND2	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SK:83:TYR:HB3	45:SK:86:LEU:HD12	1.87	0.56
46:TB:334:GLN:HA	46:TB:341:PHE:CE2	2.39	0.56
45:TE:249:ASN:OD1	46:TF:11:GLN:NE2	2.21	0.56
46:TH:167:PHE:CZ	46:TH:233:MET:HG2	2.41	0.56
46:TJ:83:GLN:O	46:UJ:281:TYR:OH	2.24	0.56
45:TK:408:TYR:HB3	45:TK:413:MET:HG3	1.87	0.56
46:TL:164:MET:HB2	46:TL:197:ASP:H	1.71	0.56
46:UD:6:HIS:O	46:UD:63:ALA:HA	2.04	0.56
46:UD:318:ARG:HH21	46:UD:356:ILE:HG23	1.71	0.56
45:UG:212:ILE:HD11	45:UG:300:ASN:HA	1.88	0.56
46:UH:2:ARG:HH21	45:UI:72:PRO:HD3	1.71	0.56
46:UL:317:PHE:HB3	46:UL:321:MET:HE1	1.88	0.56
45:VA:384:ILE:O	45:VA:387:VAL:HG22	2.06	0.56
45:VC:164:LYS:O	45:VC:166:LYS:NZ	2.39	0.56
45:VC:398:MET:HE1	46:VD:345:ILE:HA	1.87	0.56
46:VD:198:GLU:HB2	46:VD:266:PHE:CE2	2.41	0.56
45:VE:265:ILE:HG22	45:VE:380:ASN:HD21	1.71	0.56
45:VI:88:HIS:HA	45:WI:280:LYS:HZ1	1.70	0.56
45:WA:109:THR:O	45:WA:112:LYS:NZ	2.38	0.56
45:WC:111:GLY:O	45:WC:115:VAL:HG13	2.06	0.56
8:1H:90:ARG:NH2	45:HK:282:TYR:HE1	2.04	0.56
8:1H:310:TYR:O	8:1H:314:ARG:HG2	2.06	0.56
19:1J:331:SER:C	19:1J:333:ALA:H	2.13	0.56
19:1J:391:ILE:HA	19:1J:394:ARG:NH1	2.21	0.56
20:1K:165:GLN:HE22	45:GC:369:ALA:HA	1.71	0.56
25:1R:429:GLU:OE2	46:FD:280:GLN:NE2	2.29	0.56
11:1S:312:THR:HA	45:AE:402:ARG:HG3	1.87	0.56
13:1U:54:HIS:CE1	13:1U:85:ILE:HD13	2.41	0.56
24:2P:418:GLN:HE21	46:TL:276:ARG:HH11	1.53	0.56
10:2Q:126:ASP:OD1	10:2Q:130:ASN:ND2	2.39	0.56
11:2S:129:ILE:HD11	11:2S:179:ARG:HG2	1.88	0.56
27:3C:277:LEU:HD23	27:3C:285:ILE:HD13	1.87	0.56
12:3T:139:TYR:HA	12:3T:145:MET:HG2	1.88	0.56
36:5B:146:VAL:HG11	45:NG:225:THR:HG21	1.88	0.56
37:5E:78:LEU:HD21	37:5E:97:ARG:HG2	1.87	0.56
34:7R:131:GLU:OE1	34:7R:141:GLN:NE2	2.39	0.56
46:AD:103:LYS:HA	46:AD:107:THR:HG22	1.86	0.56
46:AJ:148:GLY:O	46:AJ:152:ILE:HG12	2.05	0.56
46:AJ:292:GLN:HG2	46:AJ:298:ASN:HD21	1.71	0.56
46:AL:167:PHE:CE2	46:AL:233:MET:HG2	2.41	0.56
46:AL:362:LYS:HG2	46:AL:363:MET:HG2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BB:248:SER:HA	46:BB:252:LYS:HD2	1.88	0.56
46:BL:403:MET:HE3	46:BL:404:ASP:N	2.17	0.56
45:CA:76:ASP:OD1	45:CA:79:ARG:NH2	2.39	0.56
45:CG:212:ILE:HD13	45:CG:215:ARG:NH2	2.20	0.56
45:CM:242:LEU:HD11	45:CM:252:ILE:HG13	1.88	0.56
46:CN:211:CYS:HA	46:CN:215:LEU:HD12	1.88	0.56
46:DD:109:GLY:O	46:DD:113:ILE:HG23	2.06	0.56
46:EB:244:GLY:HA3	46:EB:354:CYS:HA	1.87	0.56
46:ED:121:ARG:HH22	46:FD:336:LYS:HE3	1.70	0.56
46:ED:133:PHE:CD1	46:ED:164:MET:HE1	2.41	0.56
45:EG:136:LEU:HD13	45:EG:167:LEU:HB2	1.87	0.56
46:EH:8:GLN:HE22	46:EH:14:ASN:HA	1.71	0.56
46:EJ:8:GLN:NE2	46:EJ:17:GLY:HA3	2.20	0.56
45:FG:184:PRO:O	45:FG:188:ILE:HG12	2.05	0.56
45:FI:263:PRO:HD3	46:FL:396:HIS:NE2	2.20	0.56
46:GJ:166:THR:HG21	46:GJ:192:LEU:HD11	1.88	0.56
46:GL:208:TYR:CE1	46:GL:225:LEU:HD11	2.41	0.56
45:HA:352:LYS:HZ1	46:HD:178:THR:HA	1.70	0.56
45:HC:69:ASP:OD1	45:HC:70:LEU:N	2.38	0.56
46:HJ:97:ALA:HB3	46:HJ:143:THR:HB	1.87	0.56
46:HN:66:MET:HE1	46:HN:147:MET:HB3	1.87	0.56
46:ID:164:MET:HE1	46:ID:196:ALA:HA	1.87	0.56
45:JC:272:TYR:HD2	45:JC:275:ILE:HD11	1.71	0.56
45:JG:210:TYR:HE1	45:JG:227:LEU:HD21	1.71	0.56
45:JK:250:VAL:HG13	45:JK:254:GLU:HB2	1.87	0.56
45:JM:21:TRP:CZ3	45:JM:63:PRO:HB3	2.41	0.56
45:KA:296:PHE:HE1	45:KA:335:ILE:HG21	1.70	0.56
45:KI:226:ASN:ND2	45:KI:367:ASP:OD2	2.39	0.56
45:KM:224:TYR:HD1	47:KM:501:GTP:C6	2.24	0.56
45:LE:118:CYS:O	45:LE:122:ILE:HG12	2.05	0.56
45:MA:414:GLU:CD	45:MA:416:GLY:H	2.13	0.56
46:MD:309:ARG:NH2	46:MD:426:GLN:O	2.37	0.56
46:MH:60:VAL:HG21	46:MH:86:ARG:HG2	1.87	0.56
45:MM:209:ILE:HD12	45:MM:227:LEU:HB3	1.87	0.56
45:NC:417:GLU:HA	45:NC:420:GLU:OE2	2.06	0.56
46:NL:321:MET:HB3	46:NL:363:MET:HE2	1.87	0.56
45:NM:32:PRO:HB3	45:NM:83:TYR:CE1	2.41	0.56
45:OA:286:LEU:HD13	45:OA:371:VAL:HG13	1.87	0.56
45:OC:288:VAL:HG13	45:OC:373:ARG:HH11	1.71	0.56
45:OE:209:ILE:HA	45:OE:212:ILE:HG22	1.88	0.56
46:OH:150:LEU:O	46:OH:154:LYS:HG2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OI:174:SER:HB2	45:OI:177:VAL:HB	1.88	0.56
45:PA:265:ILE:HG22	45:PA:380:ASN:HD21	1.71	0.56
46:PD:87:PRO:HA	46:PD:90:PHE:HD2	1.70	0.56
46:PL:156:ARG:NH1	46:PL:159:TYR:O	2.39	0.56
45:PM:90:GLU:O	45:PM:121:ARG:NH1	2.38	0.56
45:PM:108:TYR:HE2	45:PM:413:MET:HB3	1.70	0.56
45:QG:66:VAL:HG21	45:QG:122:ILE:HD11	1.87	0.56
46:RB:132:GLY:HA3	46:RB:163:ILE:HG22	1.88	0.56
46:RF:8:GLN:HE22	46:RF:17:GLY:HA3	1.70	0.56
45:RI:36:MET:HE2	45:RI:36:MET:HA	1.87	0.56
45:RI:276:ILE:HG23	45:RI:280:LYS:HZ3	1.71	0.56
45:SA:211:ASP:HB3	45:SA:215:ARG:NH1	2.20	0.56
46:SB:207:LEU:HD22	46:SB:300:MET:HB2	1.88	0.56
46:SF:310:TYR:HD1	46:SF:371:SER:HB2	1.71	0.56
45:SK:68:LEU:HD13	45:SK:93:ILE:HB	1.87	0.56
46:TB:97:ALA:HB3	46:TB:143:THR:HB	1.88	0.56
46:TF:293:MET:HE2	46:TF:367:PHE:HB2	1.87	0.56
46:TH:207:LEU:HB3	46:TH:225:LEU:HD22	1.88	0.56
46:TH:341:PHE:HB3	46:TH:348:ASN:HD21	1.71	0.56
45:UG:184:PRO:O	45:UG:188:ILE:HG12	2.06	0.56
46:UJ:215:LEU:HB3	46:UJ:217:LEU:HD23	1.88	0.56
45:UM:88:HIS:HB3	45:UM:91:GLN:HG2	1.87	0.56
45:UM:226:ASN:ND2	45:UM:367:ASP:OD2	2.38	0.56
46:VH:290:THR:HA	46:VH:293:MET:HG3	1.87	0.56
45:VM:221:ARG:NH2	46:VN:321:MET:HB2	2.20	0.56
46:VN:282:ARG:NH2	46:VN:292:GLN:OE1	2.36	0.56
45:WC:133:GLN:HG2	45:WC:252:ILE:HB	1.87	0.56
46:WJ:282:ARG:NH2	46:WJ:288:GLU:OE2	2.38	0.56
46:WN:8:GLN:HE22	46:WN:14:ASN:ND2	2.03	0.56
5:0E:47:GLU:HA	5:0E:50:ILE:HG22	1.88	0.56
5:0E:88:ILE:HG13	5:0E:91:GLU:HB3	1.87	0.56
5:0E:103:ALA:HA	5:0E:106:LYS:HE2	1.88	0.56
11:0S:171:LEU:HD23	11:0S:207:VAL:HG11	1.87	0.56
16:1B:190:LEU:HD13	16:1B:195:ILE:HB	1.87	0.56
9:1N:247:GLN:N	45:KG:46:ASP:OD1	2.39	0.56
24:1P:226:HIS:NE2	45:TG:278:ALA:O	2.38	0.56
21:2L:761:TYR:OH	45:BK:219:ILE:HG23	2.05	0.56
23:2O:260:LEU:O	23:2O:263:GLU:HG3	2.06	0.56
11:2S:152:SER:OG	46:WJ:94:GLN:NE2	2.39	0.56
11:2S:246:GLU:HA	11:2S:249:VAL:HG23	1.88	0.56
26:2W:214:ARG:HH12	27:4C:182:SER:H	1.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:3T:285:ARG:NH2	13:3U:52:ARG:H	2.04	0.56
15:4X:65:ASN:HA	15:4X:68:ARG:NH1	2.21	0.56
46:AB:213:ARG:CZ	46:AB:213:ARG:HA	2.36	0.56
45:BC:89:PRO:HD2	45:CC:283:HIS:HD1	1.71	0.56
45:BC:184:PRO:O	45:BC:188:ILE:HG12	2.06	0.56
46:BL:245:GLN:HA	46:BL:245:GLN:NE2	2.21	0.56
46:BN:86:ARG:NH1	46:CL:277:GLY:O	2.39	0.56
46:BN:97:ALA:HB3	46:BN:143:THR:HB	1.86	0.56
46:CB:330:MET:HA	46:CB:330:MET:HE3	1.87	0.56
45:CC:231:ILE:O	45:CC:235:ILE:HG12	2.06	0.56
45:DE:5:ILE:HD12	45:DE:135:PHE:HE1	1.69	0.56
45:DE:326:LYS:HG3	45:DE:327:ASP:N	2.21	0.56
46:DJ:286:VAL:HG12	46:DJ:329:GLN:NE2	2.20	0.56
45:DK:206:ASN:OD1	47:DK:501:GTP:N2	2.38	0.56
46:EB:325:GLU:N	46:EB:325:GLU:OE2	2.36	0.56
45:EC:230:LEU:HD13	45:EC:233:GLN:NE2	2.21	0.56
45:EC:251:ASP:OD1	45:EC:252:ILE:N	2.39	0.56
46:ED:309:ARG:NH2	46:ED:426:GLN:O	2.39	0.56
46:EL:5:VAL:HG12	46:EL:62:ARG:HD3	1.87	0.56
46:EL:52:ASN:OD1	46:EL:62:ARG:NH2	2.39	0.56
46:FB:178:THR:HB	46:FB:181:GLU:HG3	1.88	0.56
46:FF:66:MET:HE1	46:FF:147:MET:SD	2.46	0.56
45:FG:398:MET:HE1	46:FH:345:ILE:HD12	1.87	0.56
46:FH:289:LEU:HD11	46:FH:363:MET:HG3	1.88	0.56
46:FJ:117:LEU:HA	46:FJ:120:VAL:HG12	1.87	0.56
46:FN:313:ALA:HB3	46:FN:349:ILE:HG12	1.88	0.56
46:GB:91:VAL:HG21	46:GB:116:VAL:HB	1.88	0.56
46:GD:112:LEU:HD22	46:GD:147:MET:HE1	1.88	0.56
45:GG:362:VAL:HB	45:GG:370:LYS:HB3	1.86	0.56
45:HC:414:GLU:CD	45:HC:416:GLY:H	2.14	0.56
46:HN:135:ILE:HG13	46:HN:152:ILE:HD11	1.88	0.56
46:ID:6:HIS:O	46:ID:63:ALA:HA	2.06	0.56
46:ID:136:THR:HA	46:ID:167:PHE:HB2	1.87	0.56
46:IJ:22:GLU:OE1	46:IJ:22:GLU:N	2.38	0.56
45:IM:183:GLU:OE2	45:IM:183:GLU:N	2.32	0.56
46:IN:399:THR:HA	46:IN:403:MET:HB2	1.88	0.56
45:JG:185:TYR:CZ	45:JG:398:MET:HE3	2.40	0.56
45:JG:206:ASN:OD1	47:JG:501:GTP:N2	2.33	0.56
45:JK:335:ILE:HA	45:JK:338:LYS:NZ	2.21	0.56
46:JN:309:ARG:NH2	46:JN:426:GLN:O	2.36	0.56
45:KK:349:THR:OG1	46:KN:176:SER:OG	2.16	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KL:247:ASN:O	46:KL:252:LYS:NZ	2.32	0.56
45:KM:180:ALA:HA	46:KN:350:LYS:HD3	1.87	0.56
45:LC:98:ASP:O	45:LC:105:ARG:NH1	2.39	0.56
46:LJ:31:ASP:OD1	46:LJ:35:THR:N	2.35	0.56
45:NC:100:ALA:HA	46:ND:252:LYS:HE2	1.87	0.56
45:NC:105:ARG:NH2	45:NC:411:GLU:OE2	2.38	0.56
45:NE:2:ARG:HD3	45:NE:2:ARG:H	1.71	0.56
45:NG:226:ASN:ND2	45:NG:367:ASP:OD2	2.38	0.56
46:OB:316:LEU:HD13	46:OB:352:SER:HB2	1.87	0.56
45:OI:136:LEU:HD23	45:OI:167:LEU:HB2	1.88	0.56
45:OM:7:ILE:HB	45:OM:137:VAL:HG12	1.86	0.56
46:PF:268:ILE:HG13	46:PF:300:MET:HG3	1.88	0.56
45:PG:107:HIS:HA	45:PG:152:LEU:HD11	1.87	0.56
45:PK:326:LYS:HE2	46:PN:220:PRO:CD	2.35	0.56
46:QD:50:TYR:HE2	46:QD:241:ARG:HE	1.52	0.56
45:QK:356:ASN:OD1	45:QK:357:TYR:N	2.38	0.56
46:QL:186:THR:HG22	46:QL:415:MET:HE1	1.88	0.56
45:RC:210:TYR:HE1	45:RC:227:LEU:HD11	1.70	0.56
46:RL:116:VAL:HA	46:RL:119:VAL:HG12	1.87	0.56
46:SD:347:ASN:ND2	45:SE:176:GLN:O	2.38	0.56
45:SI:377:MET:HE1	45:SI:379:SER:HB3	1.88	0.56
45:SK:85:GLN:OE1	45:SK:85:GLN:N	2.30	0.56
45:TC:408:TYR:HD2	45:TC:418:PHE:HZ	1.52	0.56
46:TD:418:LEU:HA	46:TD:421:GLU:HG3	1.87	0.56
45:TE:338:LYS:HZ2	45:TE:340:THR:H	1.53	0.56
46:TF:113:ILE:HG21	46:TF:150:LEU:HD22	1.87	0.56
46:TH:289:LEU:HD23	46:TH:365:VAL:HG23	1.88	0.56
46:TH:322:SER:OG	46:TH:325:GLU:OE2	2.24	0.56
46:UB:87:PRO:HA	46:UB:90:PHE:HD2	1.71	0.56
46:UD:148:GLY:O	46:UD:152:ILE:HG12	2.06	0.56
45:UE:251:ASP:OD1	45:UE:252:ILE:N	2.37	0.56
46:UF:285:THR:HB	46:UF:287:PRO:HD2	1.87	0.56
45:UI:319:TYR:HB3	45:UI:323:VAL:HG21	1.88	0.56
45:UI:326:LYS:HZ2	46:UJ:220:PRO:HD2	1.70	0.56
46:UJ:128:ASP:OD1	46:UJ:129:CYS:N	2.39	0.56
45:VA:172:TYR:HE2	45:VA:203:MET:HE1	1.71	0.56
45:VA:260:VAL:HG13	46:VD:397:TRP:HZ2	1.71	0.56
45:VE:358:GLN:NE2	45:VE:359:PRO:O	2.37	0.56
45:WC:222:PRO:HG2	46:WD:324:LYS:HG2	1.86	0.56
45:WK:324:VAL:HG12	45:WK:326:LYS:H	1.71	0.56
45:WM:119:LEU:HB3	45:WM:123:ARG:HH12	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0B:161:PHE:CD1	9:1N:31:LYS:HG2	2.41	0.55
13:0U:448:HIS:CE1	13:0U:468:SER:HB2	2.41	0.55
16:1B:51:LYS:O	16:1B:54:SER:OG	2.18	0.55
4:1D:20:LYS:NZ	46:CF:53:GLU:HB3	2.20	0.55
8:1H:283:GLU:HA	8:1H:286:LYS:HE2	1.88	0.55
9:1N:453:ASN:HB3	9:1N:456:ILE:HG13	1.89	0.55
23:1O:266:GLU:O	45:UA:282:TYR:CZ	2.59	0.55
10:1Q:31:ASN:O	35:4S:197:ARG:NH2	2.39	0.55
13:1U:128:MET:HA	13:1U:128:MET:HE3	1.87	0.55
13:1U:189:PHE:HB3	13:1U:192:ILE:HB	1.88	0.55
16:2B:209:ASP:O	16:2B:213:ILE:HD12	2.06	0.55
20:2K:269:GLU:CD	45:GK:370:LYS:H	2.13	0.55
21:2L:772:ASN:HD22	45:BK:278:ALA:HB3	1.70	0.55
9:2N:156:HIS:CD2	9:2N:214:THR:HG22	2.41	0.55
23:2O:190:LYS:O	23:2O:193:GLU:HG2	2.07	0.55
12:2T:25:GLN:HG3	12:2T:163:VAL:HG21	1.88	0.55
16:3B:62:THR:O	16:3B:65:LEU:N	2.39	0.55
32:3D:133:LEU:HD11	32:3D:142:GLY:HA3	1.87	0.55
30:3H:187:LEU:HD12	46:AH:279:GLN:HB3	1.88	0.55
23:3O:371:GLU:O	23:3O:374:ARG:HD3	2.07	0.55
13:3U:462:ASP:HB3	13:3U:479:LYS:HZ2	1.71	0.55
34:4R:565:ASP:OD2	34:4R:567:ASN:ND2	2.38	0.55
37:5F:151:GLU:HG3	37:5G:11:TRP:CZ2	2.41	0.55
40:6G:277:LEU:C	40:6G:279:TYR:H	2.14	0.55
10:6Q:102:ARG:CZ	45:AM:430:LYS:HZ1	2.19	0.55
45:AC:141:VAL:HG11	45:AC:172:TYR:CD1	2.41	0.55
46:AD:67:ASP:OD1	46:AD:68:LEU:N	2.39	0.55
45:BE:76:ASP:OD2	46:BF:46:ARG:NH2	2.40	0.55
46:BH:3:GLU:HG3	46:BH:49:VAL:O	2.06	0.55
46:CF:211:CYS:SG	46:CF:220:PRO:HG3	2.46	0.55
46:CJ:345:ILE:HA	45:CK:398:MET:HE1	1.87	0.55
45:CM:60:LYS:HZ1	45:CM:86:LEU:HA	1.71	0.55
46:DB:189:VAL:O	46:DB:193:VAL:HG13	2.07	0.55
45:DE:76:ASP:HA	45:DE:79:ARG:HG2	1.88	0.55
45:DI:185:TYR:CZ	45:DI:398:MET:HE2	2.41	0.55
45:DK:195:LEU:HD21	45:DK:264:ARG:HH21	1.71	0.55
45:DK:346:TRP:CD1	46:DL:391:ARG:HG3	2.41	0.55
46:DL:67:ASP:O	46:DL:92:PHE:HA	2.06	0.55
45:DM:135:PHE:HB2	45:DM:166:LYS:HG2	1.86	0.55
46:EH:274:THR:HB	46:EH:282:ARG:NH2	2.21	0.55
46:EN:318:ARG:HB2	46:EN:364:ALA:HB3	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FG:259:LEU:HB3	45:FG:268:MET:HE1	1.89	0.55
45:FI:276:ILE:HG13	45:FI:280:LYS:HE2	1.88	0.55
45:GE:282:TYR:OH	45:GE:370:LYS:O	2.10	0.55
46:GH:294:PHE:HE2	46:GH:333:VAL:HG11	1.71	0.55
46:GL:290:THR:HA	46:GL:293:MET:HG2	1.88	0.55
46:GN:388:MET:N	46:GN:388:MET:HE2	2.21	0.55
46:HL:22:GLU:HA	46:HL:81:PHE:HD1	1.71	0.55
46:ID:42:LEU:HA	46:ID:45:GLU:HB2	1.88	0.55
46:IH:20:PHE:HA	46:IH:230:SER:HB2	1.88	0.55
45:II:313:MET:HE2	45:II:382:THR:HG22	1.87	0.55
46:IL:133:PHE:HB2	46:IL:164:MET:HG3	1.88	0.55
45:IM:136:LEU:HD13	45:IM:167:LEU:HB2	1.87	0.55
45:IM:231:ILE:O	45:IM:235:ILE:HG12	2.06	0.55
45:JA:31:GLN:HE22	45:JA:37:PRO:HG3	1.70	0.55
45:JC:287:SER:HA	45:JC:373:ARG:HH21	1.70	0.55
45:JE:317:MET:HB3	45:JE:377:MET:HG2	1.88	0.55
45:JG:72:PRO:HD2	46:JH:2:ARG:NH2	2.19	0.55
46:KB:133:PHE:HB2	46:KB:164:MET:HG3	1.88	0.55
45:KE:2:ARG:HH21	45:KE:243:ARG:HA	1.71	0.55
46:KL:263:LEU:HG	46:KL:422:TYR:CE1	2.42	0.55
45:LA:430:LYS:HA	45:LA:430:LYS:HE2	1.87	0.55
45:LK:176:GLN:NE2	45:LK:207:GLU:OE1	2.38	0.55
45:LM:210:TYR:HH	46:LN:323:THR:HG1	1.45	0.55
45:ME:362:VAL:HB	45:ME:370:LYS:HB3	1.88	0.55
45:MI:276:ILE:HD11	45:MI:280:LYS:HD2	1.87	0.55
46:MJ:6:HIS:NE2	46:MJ:8:GLN:OE1	2.39	0.55
45:MM:88:HIS:HB3	45:MM:91:GLN:HG2	1.88	0.55
46:MN:73:MET:HA	46:MN:76:VAL:HG12	1.87	0.55
45:NC:109:THR:HG22	45:NC:110:ILE:HG23	1.88	0.55
45:NG:141:VAL:HG22	45:NG:187:SER:HA	1.88	0.55
45:NI:220:GLU:HG2	45:NI:221:ARG:HD2	1.87	0.55
45:NM:271:SER:HB2	45:NM:377:MET:HG2	1.88	0.55
45:OA:322:ASP:OD1	45:OA:373:ARG:NH1	2.39	0.55
46:OB:226:ASN:ND2	49:OB:501:GDP:HN1	2.01	0.55
45:OC:416:GLY:O	45:OC:419:SER:N	2.39	0.55
45:OG:141:VAL:HG22	45:OG:187:SER:HA	1.87	0.55
46:OH:289:LEU:HD22	46:OH:363:MET:HE3	1.87	0.55
46:OL:398:TYR:O	46:OL:403:MET:HB2	2.06	0.55
46:PB:268:ILE:HG22	46:PB:368:VAL:HG22	1.86	0.55
46:PD:309:ARG:NH2	46:PD:426:GLN:O	2.34	0.55
45:PE:242:LEU:HD11	45:PE:252:ILE:HG12	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PH:221:THR:HG23	46:PH:224:ASP:H	1.70	0.55
46:PJ:7:ILE:HG22	46:PJ:64:ILE:HB	1.88	0.55
46:PN:140:GLY:HA2	46:PN:181:GLU:OE1	2.06	0.55
45:QA:254:GLU:HG2	46:QB:98:GLY:HA2	1.88	0.55
45:QA:346:TRP:CD1	46:QB:391:ARG:HG3	2.41	0.55
46:QH:289:LEU:HD13	46:QH:365:VAL:HG23	1.88	0.55
46:QJ:229:VAL:O	46:QJ:233:MET:HG2	2.06	0.55
46:RF:67:ASP:O	46:RF:92:PHE:HA	2.06	0.55
46:RH:334:GLN:HA	46:RH:341:PHE:HE2	1.71	0.55
45:SE:69:ASP:OD1	45:SE:70:LEU:N	2.38	0.55
45:SE:402:ARG:HG3	45:SE:402:ARG:O	2.05	0.55
45:SG:275:ILE:HA	45:SG:368:LEU:HD11	1.88	0.55
46:TB:87:PRO:HA	46:TB:90:PHE:HD2	1.70	0.55
46:TD:73:MET:HA	46:TD:76:VAL:HG12	1.88	0.55
46:TH:102:ALA:O	46:TH:106:TYR:HB2	2.05	0.55
45:TI:33:ASP:OD1	45:TI:85:GLN:NE2	2.40	0.55
45:TI:90:GLU:OE1	45:UI:280:LYS:NZ	2.35	0.55
46:TJ:156:ARG:NH2	46:TJ:195:ASN:O	2.39	0.55
46:TL:139:LEU:N	46:TL:169:VAL:O	2.28	0.55
46:UB:331:LEU:HD11	45:UC:177:VAL:HA	1.88	0.55
46:UH:6:HIS:NE2	46:UH:8:GLN:OE1	2.34	0.55
45:UK:251:ASP:OD1	45:UK:252:ILE:N	2.39	0.55
46:UL:6:HIS:O	46:UL:63:ALA:HA	2.06	0.55
46:VB:58:ARG:NH2	46:WB:280:GLN:OE1	2.39	0.55
45:VE:398:MET:HE1	46:VF:345:ILE:HA	1.87	0.55
46:VJ:294:PHE:HE2	46:VJ:333:VAL:HG21	1.70	0.55
45:VM:265:ILE:HG22	45:VM:380:ASN:HD21	1.70	0.55
45:WA:180:ALA:HA	46:WB:350:LYS:NZ	2.20	0.55
46:WF:16:ILE:HD12	46:WF:229:VAL:HG11	1.88	0.55
45:WG:346:TRP:CD1	46:WJ:391:ARG:HG3	2.41	0.55
46:WJ:325:GLU:HA	46:WJ:328:GLU:HG3	1.87	0.55
4:0D:99:ARG:HH22	45:EC:364:PRO:HA	1.70	0.55
6:0F:184:LYS:HZ3	6:0F:217:ARG:N	2.04	0.55
16:1B:13:LYS:HE3	16:1B:60:LEU:HB3	1.88	0.55
16:1B:170:TYR:OH	16:1B:193:TRP:NE1	2.38	0.55
19:1J:342:LYS:HZ3	46:IN:276:ARG:NE	2.04	0.55
10:1Q:73:LEU:HD13	10:1Q:169:ASP:HB2	1.89	0.55
11:1S:34:ILE:HG13	11:1S:34:ILE:O	2.05	0.55
11:1S:46:TRP:CZ3	45:WC:89:PRO:HD3	2.41	0.55
13:1U:128:MET:HE1	13:1U:144:PRO:HB3	1.88	0.55
4:2D:193:ASN:HA	4:2D:196:LYS:HE2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:2K:340:ALA:O	20:2K:344:ARG:HG2	2.05	0.55
23:2O:194:GLU:HA	23:2O:197:LYS:NZ	2.21	0.55
23:2O:254:LYS:O	23:2O:257:GLN:HG3	2.06	0.55
23:2O:434:ASN:O	23:2O:438:ILE:HG12	2.07	0.55
25:2R:467:ASN:OD1	25:2R:468:ARG:N	2.40	0.55
23:3O:414:ILE:CG2	23:3O:418:GLN:HE22	2.19	0.55
13:3U:496:VAL:HG12	13:3U:507:THR:OG1	2.06	0.55
30:4H:198:SER:OG	30:4H:201:ASN:ND2	2.37	0.55
45:AA:248:LEU:HB2	45:AA:355:ILE:HG22	1.88	0.55
45:AG:260:VAL:HB	46:AJ:397:TRP:HZ2	1.72	0.55
45:BA:192:HIS:ND1	45:BA:424:ASP:OD2	2.37	0.55
45:BA:268:MET:HG3	45:BA:380:ASN:HB2	1.87	0.55
46:BD:91:VAL:HG21	46:BD:116:VAL:HB	1.88	0.55
45:BI:11:GLN:HG3	45:BI:74:VAL:HG11	1.87	0.55
45:BK:141:VAL:HG11	45:BK:172:TYR:HD1	1.70	0.55
45:BK:352:LYS:HZ1	46:BN:179:VAL:H	1.54	0.55
46:BN:318:ARG:HG2	46:BN:357:PRO:HA	1.87	0.55
46:CB:12:CYS:O	46:CB:16:ILE:HG12	2.07	0.55
45:CK:292:THR:HG21	45:CK:331:SER:HB3	1.87	0.55
46:DB:60:VAL:HB	46:EB:281:TYR:HD2	1.71	0.55
46:DD:221:THR:HG23	46:DD:224:ASP:H	1.72	0.55
46:DD:273:LEU:H	46:DD:292:GLN:HE22	1.52	0.55
45:DG:268:MET:HB2	45:DG:379:SER:O	2.05	0.55
45:DG:335:ILE:HA	45:DG:338:LYS:HE3	1.88	0.55
46:DN:232:ALA:HB2	46:DN:300:MET:HE1	1.86	0.55
46:DN:290:THR:HA	46:DN:293:MET:HE3	1.87	0.55
46:EH:21:TRP:HA	46:EH:24:ILE:HG22	1.89	0.55
46:EH:260:PHE:HB2	46:EH:263:LEU:HD13	1.88	0.55
46:EJ:289:LEU:HD13	46:EJ:365:VAL:HG23	1.88	0.55
45:EK:395:PHE:HZ	45:EK:418:PHE:HB3	1.71	0.55
45:EM:390:ARG:O	45:EM:394:LYS:HG2	2.07	0.55
45:FI:176:GLN:NE2	45:FI:207:GLU:OE2	2.40	0.55
46:FJ:68:LEU:HB3	46:FJ:96:GLY:HA2	1.87	0.55
45:FM:52:PHE:H	45:FM:243:ARG:NH2	2.04	0.55
45:GE:118:CYS:O	45:GE:122:ILE:HG12	2.06	0.55
45:GK:209:ILE:HG23	45:GK:227:LEU:HD22	1.88	0.55
45:HE:326:LYS:HG3	45:HE:327:ASP:N	2.21	0.55
46:HL:200:MET:HE3	46:HL:268:ILE:HG21	1.89	0.55
45:IA:166:LYS:O	45:IA:199:ASP:HB3	2.06	0.55
46:IF:382:ALA:HB2	46:IF:415:MET:HE1	1.88	0.55
45:IG:332:ILE:HD11	45:IG:351:PHE:CG	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JB:45:GLU:HG2	46:JB:46:ARG:HG2	1.87	0.55
46:JD:207:LEU:HB3	46:JD:225:LEU:HD22	1.87	0.55
46:JH:299:MET:HA	46:JH:299:MET:HE2	1.87	0.55
45:JI:205:ASP:OD1	45:JI:303:ALA:HA	2.06	0.55
46:JN:222:TYR:O	46:JN:226:ASN:ND2	2.29	0.55
46:KB:31:ASP:OD1	46:KB:35:THR:N	2.37	0.55
46:KF:63:ALA:O	46:KF:89:ASN:ND2	2.39	0.55
46:KF:318:ARG:HE	46:KF:358:PRO:HG3	1.71	0.55
45:KG:103:PHE:HB2	45:KG:186:ASN:HB3	1.87	0.55
45:KG:331:SER:O	45:KG:335:ILE:HG12	2.06	0.55
45:KM:11:GLN:HG3	45:KM:74:VAL:HG11	1.87	0.55
45:LE:98:ASP:OD1	45:LE:99:ALA:N	2.40	0.55
46:LJ:54:ALA:HB3	46:LJ:58:ARG:HG2	1.88	0.55
46:LL:101:TRP:NE1	46:LL:188:SER:OG	2.38	0.55
46:LN:86:ARG:HE	46:LN:86:ARG:HA	1.72	0.55
45:MC:9:VAL:HG12	45:MC:68:LEU:HB2	1.86	0.55
45:MM:181:VAL:HG23	45:MM:182:VAL:HG13	1.88	0.55
45:MM:285:GLN:NE2	45:MM:290:GLU:OE2	2.39	0.55
46:MN:178:THR:HG22	46:MN:180:VAL:H	1.72	0.55
45:NC:222:PRO:O	46:ND:322:SER:OG	2.18	0.55
45:NE:430:LYS:O	45:NE:433:GLU:HG3	2.05	0.55
45:NI:399:TYR:OH	45:NI:402:ARG:NH2	2.39	0.55
45:NK:31:GLN:HG2	45:NK:32:PRO:HD2	1.88	0.55
46:NL:254:ALA:O	46:NL:258:ILE:HG22	2.07	0.55
46:NN:161:ASP:HB2	46:NN:162:ARG:HH21	1.71	0.55
45:OC:276:ILE:HD11	45:OC:280:LYS:HG3	1.87	0.55
46:OD:58:ARG:HH22	46:OD:84:LEU:HA	1.71	0.55
46:OH:186:THR:HA	46:OH:189:VAL:HG12	1.89	0.55
46:ON:372:THR:HA	46:ON:422:TYR:HE2	1.72	0.55
45:PG:70:LEU:HD13	45:PG:95:GLY:HA3	1.87	0.55
45:PG:387:VAL:O	45:PG:390:ARG:HG2	2.06	0.55
46:QB:74:ASP:OD1	46:QB:77:ARG:NH1	2.38	0.55
45:QC:90:GLU:OE1	45:QC:121:ARG:NE	2.40	0.55
45:QE:280:LYS:HE3	45:QE:283:HIS:HB2	1.86	0.55
46:RB:66:MET:HE2	46:RB:116:VAL:HG21	1.89	0.55
45:RE:328:VAL:HG11	45:RE:353:VAL:HG21	1.86	0.55
45:RK:329:ASN:HA	45:RK:332:ILE:HG12	1.87	0.55
46:SH:73:MET:HE1	46:SH:92:PHE:CG	2.41	0.55
45:SK:261:PRO:HA	46:SL:394:PHE:HD1	1.72	0.55
45:TE:69:ASP:HB3	45:TE:75:ILE:HD11	1.88	0.55
45:TG:265:ILE:HG22	45:TG:432:TYR:HE1	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TK:426:ALA:HB1	45:TK:430:LYS:NZ	2.20	0.55
45:UC:184:PRO:O	45:UC:188:ILE:HG12	2.07	0.55
45:UC:217:LEU:HB3	45:UC:219:ILE:HG12	1.88	0.55
45:UE:70:LEU:HD13	45:UE:95:GLY:HA3	1.88	0.55
45:UK:121:ARG:HE	45:UK:124:LYS:HE2	1.70	0.55
46:VD:8:GLN:HE21	46:VD:65:LEU:HG	1.72	0.55
46:VH:372:THR:HA	46:VH:422:TYR:HE2	1.70	0.55
46:VJ:375:GLN:HG3	46:VJ:419:VAL:HG13	1.88	0.55
46:VL:135:ILE:HG13	46:VL:152:ILE:HD11	1.88	0.55
46:VL:267:MET:HG2	46:VL:299:MET:HE2	1.88	0.55
46:VN:67:ASP:OD1	46:VN:68:LEU:N	2.38	0.55
45:WA:68:LEU:HD21	45:WA:118:CYS:HB2	1.88	0.55
46:WB:100:ASN:ND2	46:WB:401:GLU:OE1	2.38	0.55
45:WE:395:PHE:HZ	45:WE:418:PHE:HB3	1.69	0.55
46:WL:266:PHE:CE1	46:WL:370:ASN:HB2	2.41	0.55
46:WN:267:MET:HE1	46:WN:301:CYS:H	1.70	0.55
2:0B:202:GLY:HA3	45:KI:372:MET:SD	2.46	0.55
3:0C:62:TYR:HA	3:0C:65:VAL:HG12	1.87	0.55
6:0F:66:SER:HB2	46:DD:56:GLY:HA2	1.88	0.55
10:0Q:93:VAL:HG21	10:0Q:136:LEU:HD11	1.89	0.55
16:1B:72:TYR:OH	16:1B:76:ARG:N	2.40	0.55
20:1K:184:ALA:O	20:1K:188:LYS:HD2	2.06	0.55
10:1Q:14:LEU:HD13	10:1Q:25:TRP:CD1	2.41	0.55
11:1S:112:GLN:HB2	12:1T:18:PRO:HG3	1.88	0.55
11:1S:162:PRO:HA	11:1S:165:LEU:HD12	1.89	0.55
13:1U:388:ALA:O	13:1U:397:LEU:N	2.40	0.55
13:1U:458:LYS:HZ1	13:1U:462:ASP:HB2	1.70	0.55
15:1X:5:LYS:NZ	45:ME:245:ASP:OD1	2.35	0.55
4:2D:209:LYS:HA	34:5R:433:GLN:NE2	2.22	0.55
29:2G:4:ILE:O	29:2G:8:ILE:HD12	2.05	0.55
21:2L:421:GLN:NE2	21:2L:423:TYR:O	2.39	0.55
22:2M:264:ILE:HD11	22:2M:306:LEU:HD22	1.87	0.55
24:2P:352:ILE:O	24:2P:356:ILE:HD12	2.06	0.55
24:2P:477:SER:O	24:2P:480:GLU:HG3	2.05	0.55
25:2R:60:LYS:HZ1	30:3H:220:ARG:H	1.54	0.55
16:3B:214:LEU:O	16:3B:218:ILE:HD12	2.05	0.55
25:3R:112:GLU:OE1	46:BN:362:LYS:HG2	2.07	0.55
25:3R:116:GLU:HA	25:3R:215:ASN:HD22	1.71	0.55
12:3T:121:ALA:H	12:3T:199:ARG:HG2	1.71	0.55
15:4X:2:LYS:HZ2	46:LL:74:ASP:HB3	1.71	0.55
36:5B:146:VAL:HG13	36:5B:147:TYR:HD1	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5E:97:ARG:HH22	46:KB:262:ARG:HD3	1.71	0.55
37:5F:126:LEU:HD22	45:OE:285:GLN:HE22	1.71	0.55
34:5R:321:MET:HB2	46:CJ:279:GLN:NE2	2.21	0.55
39:6F:42:ASN:OD1	39:6F:57:SER:OG	2.21	0.55
10:6Q:121:MET:HA	10:6Q:121:MET:HE3	1.88	0.55
34:6R:129:VAL:HB	34:6R:145:ILE:HB	1.88	0.55
47:AI:501:GTP:O1G	46:AJ:252:LYS:NZ	2.25	0.55
45:CG:211:ASP:OD2	45:CG:215:ARG:NE	2.36	0.55
46:CL:268:ILE:HG22	46:CL:368:VAL:HG22	1.87	0.55
46:DD:86:ARG:NH2	46:ED:282:ARG:HG2	2.20	0.55
45:DG:191:THR:HA	45:DG:194:LEU:HG	1.88	0.55
45:DM:11:GLN:NE2	45:DM:69:ASP:OD2	2.39	0.55
45:DM:101:ASN:HA	45:DM:144:GLY:H	1.71	0.55
45:EK:208:ALA:O	45:EK:212:ILE:HG12	2.06	0.55
45:FC:11:GLN:HG3	45:FC:74:VAL:HG11	1.88	0.55
45:FI:328:VAL:O	45:FI:332:ILE:HG12	2.07	0.55
45:GA:398:MET:HG3	46:GB:345:ILE:HG22	1.87	0.55
46:GD:171:PRO:HB2	46:GD:181:GLU:HG2	1.88	0.55
45:GG:296:PHE:HE1	45:GG:377:MET:HE2	1.72	0.55
45:GI:227:LEU:O	45:GI:231:ILE:HG12	2.06	0.55
45:GK:129:CYS:SG	45:GK:130:THR:N	2.79	0.55
45:HK:3:GLU:OE2	45:HK:131:GLY:N	2.38	0.55
45:IC:175:PRO:HB2	45:IC:176:GLN:OE1	2.06	0.55
46:ID:113:ILE:HG21	46:ID:150:LEU:HD22	1.88	0.55
45:IE:407:TRP:HE1	46:IF:258:ILE:HG23	1.71	0.55
45:IG:179:THR:HG21	46:IH:246:LEU:HD13	1.88	0.55
45:IM:116:ASP:OD1	45:IM:117:LEU:N	2.38	0.55
46:IN:156:ARG:HH22	46:IN:197:ASP:CG	2.14	0.55
46:JB:73:MET:HA	46:JB:76:VAL:HG12	1.89	0.55
45:JC:123:ARG:NH2	45:JC:160:ASP:OD2	2.39	0.55
45:JG:136:LEU:HD12	45:JG:169:PHE:HE2	1.71	0.55
46:JH:52:ASN:OD1	46:JH:62:ARG:NH2	2.39	0.55
45:KE:346:TRP:CD1	46:KH:391:ARG:HG3	2.42	0.55
45:KG:36:MET:HE2	45:KG:36:MET:HA	1.89	0.55
45:KK:98:ASP:OD1	45:KK:99:ALA:N	2.39	0.55
45:LE:55:GLU:HG3	45:LE:57:GLY:H	1.72	0.55
45:LK:206:ASN:HB3	45:LK:210:TYR:CE2	2.42	0.55
46:LL:286:VAL:HG21	46:LL:325:GLU:HB3	1.87	0.55
46:NB:318:ARG:HD3	46:NB:358:PRO:HG3	1.88	0.55
45:NE:72:PRO:HD2	46:NF:2:ARG:HH12	1.72	0.55
46:NJ:318:ARG:HB3	46:NJ:357:PRO:HA	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NK:99:ALA:HA	45:NK:105:ARG:HD2	1.88	0.55
45:OE:298:PRO:HG3	45:OE:308:ARG:HH22	1.70	0.55
46:OJ:203:ASP:OD2	46:OJ:377:MET:HE1	2.06	0.55
46:OJ:313:ALA:HB1	46:OJ:367:PHE:HE1	1.71	0.55
46:OJ:406:MET:O	46:OJ:410:GLU:HG2	2.07	0.55
46:PD:55:THR:HG23	46:QB:283:ALA:HA	1.89	0.55
46:PF:63:ALA:O	46:PF:89:ASN:ND2	2.39	0.55
46:PJ:48:ASN:O	46:PJ:62:ARG:NH1	2.36	0.55
45:PK:413:MET:HA	45:PK:413:MET:HE3	1.87	0.55
46:QB:12:CYS:HA	46:QB:15:GLN:NE2	2.20	0.55
46:QB:67:ASP:O	46:QB:92:PHE:HA	2.06	0.55
46:QB:87:PRO:HA	46:QB:90:PHE:CD1	2.41	0.55
46:QB:101:TRP:HB2	46:QB:184:ASN:HB3	1.88	0.55
46:QB:258:ILE:HD11	45:QC:407:TRP:HZ2	1.71	0.55
45:QI:124:LYS:NZ	45:RI:290:GLU:OE1	2.34	0.55
45:QI:352:LYS:HZ1	46:QJ:179:VAL:HG22	1.71	0.55
46:RB:261:PRO:HD3	45:RC:406:HIS:CE1	2.41	0.55
45:RC:184:PRO:O	45:RC:188:ILE:HD12	2.06	0.55
46:RD:324:LYS:HZ1	45:RE:214:ARG:HB3	1.70	0.55
46:RF:258:ILE:HG13	45:RG:407:TRP:HZ2	1.70	0.55
46:RF:323:THR:OG1	45:RG:210:TYR:OH	2.16	0.55
46:RN:100:ASN:HD21	46:RN:102:ALA:HB3	1.71	0.55
45:SC:60:LYS:HE2	45:TC:283:HIS:HD2	1.71	0.55
46:SD:12:CYS:O	46:SD:16:ILE:HG12	2.07	0.55
46:SJ:58:ARG:NH2	46:TJ:280:GLN:OE1	2.38	0.55
45:SK:15:GLN:O	45:SK:18:ASN:ND2	2.39	0.55
46:SL:21:TRP:CH2	46:SL:61:PRO:HB2	2.41	0.55
45:TA:328:VAL:HG11	45:TA:353:VAL:HG21	1.88	0.55
46:TF:68:LEU:HB3	46:TF:96:GLY:HA2	1.88	0.55
46:TL:310:TYR:HD1	46:TL:371:SER:HB2	1.71	0.55
45:TM:242:LEU:HD11	45:TM:252:ILE:HG13	1.88	0.55
46:UB:222:TYR:O	46:UB:226:ASN:ND2	2.30	0.55
46:UD:2:ARG:NH2	45:UE:72:PRO:HD3	2.22	0.55
46:UD:133:PHE:HB2	46:UD:164:MET:HG3	1.89	0.55
46:UJ:163:ILE:HA	46:UJ:197:ASP:OD2	2.06	0.55
45:VC:171:ILE:O	45:VC:171:ILE:HG13	2.06	0.55
45:VC:345:ASP:N	45:VC:345:ASP:OD1	2.39	0.55
45:VE:318:MET:HB3	45:VE:376:CYS:SG	2.47	0.55
45:VG:260:VAL:HB	46:VJ:397:TRP:HZ2	1.71	0.55
46:VJ:299:MET:HG3	46:VJ:301:CYS:H	1.71	0.55
45:VM:11:GLN:NE2	46:VN:245:GLN:O	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VN:65:LEU:HB3	46:VN:73:MET:HE2	1.87	0.55
45:WA:220:GLU:O	45:WA:221:ARG:HD2	2.06	0.55
46:WF:3:GLU:HG3	46:WF:49:VAL:HA	1.89	0.55
46:WF:226:ASN:HA	46:WF:229:VAL:HG12	1.88	0.55
45:WI:208:ALA:O	45:WI:212:ILE:HG12	2.07	0.55
45:CE:259:LEU:HB3	45:CE:268:MET:CE	2.35	0.55
4:0D:224:ARG:NE	34:7R:493:GLY:HA3	2.22	0.55
6:0F:34:GLY:O	45:DE:79:ARG:NH1	2.39	0.55
9:0N:221:ASP:OD2	9:0N:269:GLN:NE2	2.39	0.55
17:1F:60:ASN:O	17:1F:64:ALA:HB3	2.06	0.55
8:1H:139:ARG:NH1	45:HI:370:LYS:HG3	2.22	0.55
19:1J:394:ARG:HH21	19:1J:414:ALA:C	2.15	0.55
20:1K:246:LYS:O	20:1K:250:GLU:HG2	2.06	0.55
24:1P:168:ARG:HH12	45:TI:281:ALA:HB3	1.72	0.55
25:1R:255:ASP:OD1	25:1R:256:ARG:N	2.38	0.55
25:1R:306:LYS:NZ	25:1R:326:ASP:OD2	2.40	0.55
25:1R:345:CYS:SG	25:1R:349:THR:OG1	2.64	0.55
21:2L:894:ARG:HH12	45:CK:365:GLY:H	1.55	0.55
13:2U:326:ILE:HG23	13:2U:582:GLN:HG2	1.87	0.55
26:2W:214:ARG:HH12	27:4C:182:SER:N	2.04	0.55
21:3L:51:TYR:O	21:3L:55:ARG:NH1	2.40	0.55
15:3X:81:ARG:HG2	46:MN:276:ARG:NH1	2.21	0.55
27:4C:250:THR:OG1	27:4C:252:ASP:OD1	2.24	0.55
35:4S:211:ASN:HB3	35:4S:217:LEU:HD21	1.88	0.55
36:5A:22:TYR:HB3	36:5A:61:SER:H	1.71	0.55
36:5B:145:ASN:OD1	36:5B:146:VAL:N	2.39	0.55
36:5B:153:PHE:HE2	45:NG:365:GLY:H	1.54	0.55
37:5G:9:TYR:CD1	37:5G:10:PRO:HD3	2.42	0.55
37:5G:52:GLY:N	37:5G:55:GLU:OE2	2.34	0.55
46:AB:67:ASP:O	46:AB:92:PHE:HA	2.04	0.55
45:AC:111:GLY:O	45:AC:115:VAL:HG13	2.06	0.55
45:AI:292:THR:HG21	45:AI:331:SER:HB3	1.87	0.55
45:AK:259:LEU:HD11	45:AK:316:SER:HB3	1.87	0.55
45:BE:222:PRO:O	46:BF:324:LYS:HD2	2.06	0.55
46:BH:139:LEU:HD13	46:BH:168:SER:HB3	1.87	0.55
46:BN:64:ILE:HD13	46:BN:119:VAL:HG13	1.88	0.55
45:CC:322:ASP:OD1	45:CC:373:ARG:NH1	2.34	0.55
45:CG:36:MET:SD	45:CG:37:PRO:HD2	2.46	0.55
46:CH:274:THR:HB	46:CH:282:ARG:HH11	1.71	0.55
46:CJ:222:TYR:HD1	49:CJ:501:GDP:C6	2.24	0.55
46:CL:119:VAL:O	46:CL:123:GLU:HG2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DB:317:PHE:CD1	46:DB:365:VAL:HG22	2.41	0.55
46:DF:190:HIS:CE1	46:DF:414:ASN:HD22	2.24	0.55
45:DM:172:TYR:HB2	45:DM:203:MET:HE1	1.88	0.55
45:EA:76:ASP:OD1	45:EA:79:ARG:NH2	2.39	0.55
45:EA:328:VAL:HG11	45:EA:353:VAL:HG21	1.88	0.55
45:EC:258:ASN:HD22	45:EC:352:LYS:HD3	1.70	0.55
46:EF:5:VAL:HG12	46:EF:62:ARG:HD3	1.87	0.55
46:EJ:210:ILE:O	46:EJ:214:THR:OG1	2.19	0.55
46:EN:204:ASN:OD1	49:EN:501:GDP:O2'	2.20	0.55
45:FC:22:GLU:HG3	45:FC:83:TYR:HE2	1.71	0.55
45:GA:80:THR:O	45:GA:84:ARG:NH2	2.39	0.55
45:GA:259:LEU:HD23	45:GA:268:MET:HG2	1.89	0.55
45:GC:20:CYS:HB3	45:GC:24:PHE:HE2	1.71	0.55
46:GD:342:VAL:HG13	46:GD:345:ILE:HG22	1.89	0.55
46:GJ:127:CYS:SG	46:GJ:128:ASP:N	2.79	0.55
45:GK:226:ASN:ND2	45:GK:367:ASP:OD1	2.40	0.55
46:HB:86:ARG:NH1	46:IB:281:TYR:HB3	2.21	0.55
46:HD:181:GLU:N	46:HD:181:GLU:OE2	2.40	0.55
46:ID:378:PHE:HA	46:ID:381:VAL:HG12	1.88	0.55
45:IE:205:ASP:OD1	45:IE:303:ALA:HA	2.06	0.55
45:IG:271:SER:HB2	45:IG:301:MET:SD	2.47	0.55
46:IH:22:GLU:HG2	46:IH:81:PHE:CD1	2.41	0.55
46:IJ:148:GLY:O	46:IJ:152:ILE:HG12	2.07	0.55
45:JG:372:MET:SD	45:JG:373:ARG:HG3	2.47	0.55
45:JI:292:THR:HG22	45:JI:335:ILE:HD11	1.88	0.55
45:KA:18:ASN:O	45:KA:22:GLU:HG2	2.06	0.55
45:KA:317:MET:HA	45:KA:317:MET:HE3	1.88	0.55
45:KG:335:ILE:HD13	45:KG:338:LYS:NZ	2.20	0.55
45:LA:214:ARG:HD3	46:LB:324:LYS:HE3	1.88	0.55
45:LM:205:ASP:CG	45:LM:304:LYS:H	2.14	0.55
45:NI:229:ARG:NH1	45:NI:366:GLY:HA2	2.21	0.55
45:NI:325:PRO:HB2	46:NL:208:TYR:OH	2.06	0.55
45:OA:102:ASN:CB	46:OB:251:ARG:HH22	2.18	0.55
45:OC:3:GLU:OE2	45:OC:131:GLY:N	2.40	0.55
45:OE:31:GLN:HG3	45:OE:37:PRO:HG3	1.89	0.55
46:OL:125:GLU:OE1	46:PL:336:LYS:NZ	2.37	0.55
46:ON:316:LEU:HD13	46:ON:352:SER:OG	2.06	0.55
45:PC:154:LEU:HD22	45:PC:197:HIS:HB3	1.88	0.55
46:PD:19:LYS:HE2	46:PD:227:HIS:ND1	2.21	0.55
45:PK:8:HIS:HB2	45:PK:67:PHE:HD2	1.71	0.55
46:PN:86:ARG:HG3	46:PN:88:ASP:H	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QC:264:ARG:NH1	45:QC:431:ASP:OD2	2.40	0.55
45:QC:358:GLN:NE2	45:QC:359:PRO:O	2.37	0.55
45:QE:244:PHE:HB2	45:QE:356:ASN:HD21	1.71	0.55
45:QE:254:GLU:HG3	46:QF:98:GLY:HA2	1.88	0.55
46:QF:55:THR:HG23	46:RF:283:ALA:HA	1.89	0.55
46:QF:282:ARG:NH2	46:QF:288:GLU:OE2	2.39	0.55
45:QG:329:ASN:HA	45:QG:332:ILE:HG12	1.88	0.55
45:QK:101:ASN:HA	45:QK:144:GLY:H	1.71	0.55
45:QK:420:GLU:OE2	45:QK:420:GLU:N	2.36	0.55
46:RD:267:MET:HE1	46:RD:299:MET:HG3	1.89	0.55
45:RG:326:LYS:HD2	46:RH:212:PHE:HZ	1.72	0.55
46:RL:375:GLN:HG3	46:RL:419:VAL:HG13	1.88	0.55
45:RM:171:ILE:HG13	45:RM:171:ILE:O	2.06	0.55
46:SD:316:LEU:HG	46:SD:352:SER:HB2	1.88	0.55
45:SG:56:THR:HG21	45:SG:60:LYS:HG3	1.87	0.55
46:SJ:12:CYS:O	46:SJ:16:ILE:HG12	2.06	0.55
45:TC:336:LYS:HE3	45:TC:351:PHE:HE1	1.71	0.55
45:TG:55:GLU:HG3	45:TG:57:GLY:H	1.72	0.55
46:TL:299:MET:HG3	46:TL:301:CYS:H	1.71	0.55
45:TM:88:HIS:CD2	45:UM:283:HIS:HD2	2.25	0.55
46:UB:105:HIS:CE1	46:UB:150:LEU:HD12	2.42	0.55
45:UC:88:HIS:HB3	45:UC:91:GLN:HG2	1.88	0.55
45:UC:118:CYS:O	45:UC:122:ILE:HG12	2.07	0.55
46:UD:64:ILE:HD13	46:UD:119:VAL:HG13	1.87	0.55
46:UJ:254:ALA:O	46:UJ:258:ILE:HG22	2.06	0.55
45:VI:419:SER:O	45:VI:423:GLU:HG2	2.07	0.55
46:VN:116:VAL:HA	46:VN:119:VAL:HG12	1.86	0.55
46:VN:273:LEU:N	46:VN:292:GLN:HE22	2.03	0.55
45:WC:136:LEU:HD23	45:WC:167:LEU:HB2	1.88	0.55
46:WF:267:MET:HE1	46:WF:305:PRO:HB3	1.86	0.55
45:WG:387:VAL:HA	45:WG:390:ARG:HG2	1.89	0.55
45:WI:175:PRO:HG3	45:WI:390:ARG:NH1	2.21	0.55
45:WI:227:LEU:O	45:WI:231:ILE:HD12	2.07	0.55
45:WI:268:MET:SD	45:WI:380:ASN:HB2	2.47	0.55
45:WK:136:LEU:HD13	45:WK:167:LEU:HB2	1.87	0.55
46:WL:221:THR:HG23	46:WL:224:ASP:H	1.70	0.55
45:DC:191:THR:HA	45:DC:194:LEU:HG	1.89	0.55
1:0A:71:TYR:CE2	46:AB:320:ARG:HB3	2.42	0.55
2:0B:99:GLY:HA2	2:0B:124:THR:HG21	1.89	0.55
4:0D:181:ILE:HG12	4:0D:195:ARG:NH2	2.22	0.55
8:0H:385:GLU:HB2	8:0H:388:LYS:HZ2	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:0S:111:LYS:HB2	46:MB:157:GLU:OE1	2.07	0.55
13:0U:374:GLY:HA3	14:3V:5:SER:HB2	1.89	0.55
8:1H:42:ASP:OD1	8:1H:43:ALA:N	2.39	0.55
8:1H:90:ARG:NH1	45:HK:279:GLU:HA	2.20	0.55
19:1J:209:GLU:OE2	46:IJ:217:LEU:HD12	2.07	0.55
22:1M:35:GLU:OE1	22:1M:48:ARG:N	2.33	0.55
12:1T:190:GLY:O	12:1T:193:LYS:NZ	2.40	0.55
26:1W:107:GLU:OE2	46:KF:56:GLY:N	2.22	0.55
27:2C:132:GLU:OE2	27:2C:136:ASN:ND2	2.26	0.55
23:2O:358:GLU:O	23:2O:362:ARG:HG2	2.07	0.55
24:2P:494:LYS:O	24:2P:497:LEU:HG	2.06	0.55
14:2V:209:ARG:NE	14:2V:259:ASN:OD1	2.39	0.55
33:4F:203:ILE:HD12	45:HM:89:PRO:HB3	1.87	0.55
15:4X:19:ASN:OD1	15:4X:20:GLY:N	2.40	0.55
41:6H:292:ASN:O	41:6H:294:PRO:HD3	2.05	0.55
41:6H:304:LYS:HG3	45:FG:225:THR:HG21	1.88	0.55
45:AA:2:ARG:NH2	46:AD:69:GLU:OE2	2.34	0.55
46:AB:377:MET:HA	46:AB:380:ARG:HH11	1.69	0.55
45:AG:118:CYS:O	45:AG:122:ILE:HG12	2.06	0.55
45:AI:88:HIS:CE1	45:AI:90:GLU:HG2	2.42	0.55
45:AK:208:ALA:O	45:AK:212:ILE:HG12	2.07	0.55
46:BB:287:PRO:O	46:BB:291:GLN:HG3	2.07	0.55
45:BE:401:LYS:HZ3	46:BF:344:TRP:CG	2.24	0.55
45:BK:226:ASN:ND2	45:BK:367:ASP:OD2	2.40	0.55
46:CB:3:GLU:HA	46:CB:49:VAL:HG23	1.89	0.55
46:CH:322:SER:OG	46:CH:323:THR:N	2.39	0.55
46:CJ:273:LEU:H	46:CJ:292:GLN:HE22	1.52	0.55
46:DB:6:HIS:O	46:DB:63:ALA:HA	2.07	0.55
46:DB:327:ASP:HA	46:DB:330:MET:HE2	1.89	0.55
46:DD:309:ARG:NH1	46:DD:341:PHE:O	2.38	0.55
45:DE:185:TYR:CZ	45:DE:398:MET:HE2	2.41	0.55
45:DG:206:ASN:OD1	47:DG:501:GTP:N2	2.39	0.55
45:DI:296:PHE:CD1	45:DI:377:MET:HE1	2.41	0.55
46:ED:175:VAL:HG13	46:ED:205:GLU:OE1	2.07	0.55
46:EH:86:ARG:NH1	46:FH:282:ARG:HH22	2.05	0.55
45:EI:338:LYS:HZ2	45:EI:340:THR:N	2.03	0.55
46:EJ:96:GLY:O	46:EJ:103:LYS:NZ	2.36	0.55
45:FK:88:HIS:HA	45:GK:283:HIS:CE1	2.41	0.55
45:GC:105:ARG:HG2	45:GC:411:GLU:OE2	2.05	0.55
46:GH:309:ARG:H	46:GH:372:THR:HG1	1.54	0.55
45:GM:284:GLU:HG3	45:GM:286:LEU:HD22	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HG:205:ASP:OD1	45:HG:303:ALA:HA	2.06	0.55
46:HH:31:ASP:OD1	46:HH:35:THR:N	2.33	0.55
45:IA:98:ASP:O	45:IA:105:ARG:NH1	2.40	0.55
45:IA:316:SER:HA	45:IA:352:LYS:HB2	1.88	0.55
45:IC:241:SER:OG	45:IC:250:VAL:O	2.24	0.55
46:IH:145:SER:HB2	46:IH:188:SER:HB3	1.88	0.55
46:IH:226:ASN:ND2	49:IH:501:GDP:HN1	2.03	0.55
46:IL:148:GLY:O	46:IL:152:ILE:HG12	2.06	0.55
46:JB:1:MET:HA	46:JB:1:MET:HE3	1.88	0.55
45:JC:224:TYR:O	45:JC:228:ASN:ND2	2.26	0.55
46:JF:6:HIS:NE2	46:JF:8:GLN:OE1	2.39	0.55
46:JJ:69:GLU:OE2	46:JJ:72:THR:OG1	2.21	0.55
46:JN:191:GLN:O	46:JN:195:ASN:ND2	2.39	0.55
45:KC:210:TYR:HE1	45:KC:227:LEU:HD21	1.71	0.55
45:KE:317:MET:HE1	45:KE:351:PHE:CD2	2.42	0.55
45:KG:224:TYR:HA	45:KG:227:LEU:HD12	1.89	0.55
45:KG:407:TRP:HE1	46:KH:258:ILE:HB	1.72	0.55
46:KH:330:MET:HB3	46:KH:349:ILE:HD12	1.88	0.55
45:LA:161:TYR:HD1	45:LA:164:LYS:HG3	1.71	0.55
45:ME:328:VAL:HG11	45:ME:353:VAL:HG21	1.88	0.55
45:MK:244:PHE:HB2	45:MK:356:ASN:HD21	1.70	0.55
46:ML:299:MET:HE3	46:ML:299:MET:HA	1.88	0.55
45:NI:134:GLY:HA2	45:NI:164:LYS:HE3	1.88	0.55
45:NI:181:VAL:HG12	46:NJ:350:LYS:HZ1	1.71	0.55
45:NM:91:GLN:N	45:NM:91:GLN:OE1	2.39	0.55
47:NM:501:GTP:H8	46:NN:246:LEU:HD11	1.71	0.55
46:OJ:6:HIS:HE2	46:OJ:8:GLN:HE21	1.53	0.55
45:PA:100:ALA:HB3	46:PB:251:ARG:NH2	2.22	0.55
45:PE:356:ASN:OD1	45:PE:357:TYR:N	2.40	0.55
45:PG:21:TRP:CZ3	45:PG:63:PRO:HB3	2.42	0.55
45:PG:294:SER:O	45:PG:300:ASN:ND2	2.34	0.55
45:PG:360:PRO:HG2	45:PG:371:VAL:HG23	1.89	0.55
46:PH:178:THR:HB	46:PH:181:GLU:HG2	1.88	0.55
45:PI:426:ALA:HB1	45:PI:430:LYS:NZ	2.22	0.55
46:PJ:207:LEU:HD22	46:PJ:228:LEU:HD11	1.89	0.55
46:PJ:392:LYS:HA	46:PJ:395:LEU:HD12	1.89	0.55
46:PN:113:ILE:HD13	46:PN:150:LEU:HD21	1.87	0.55
46:PN:290:THR:HA	46:PN:293:MET:HG2	1.87	0.55
45:QG:326:LYS:NZ	46:QH:219:THR:HA	2.21	0.55
46:QH:153:SER:HA	46:QH:195:ASN:HD22	1.71	0.55
46:QJ:207:LEU:HB3	46:QJ:225:LEU:HD22	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RL:405:GLU:HG2	46:RL:406:MET:HE2	1.89	0.55
46:SB:114:ASP:OD1	46:SB:115:SER:N	2.39	0.55
46:SB:132:GLY:HA2	46:SB:162:ARG:HB3	1.88	0.55
45:SE:288:VAL:HG11	45:SE:327:ASP:HB3	1.88	0.55
46:SH:8:GLN:NE2	46:SH:17:GLY:HA3	2.20	0.55
46:TD:207:LEU:HD13	46:TD:210:ILE:HD11	1.89	0.55
46:TD:324:LYS:HA	46:TD:327:ASP:OD2	2.06	0.55
45:UC:2:ARG:NH2	46:UD:69:GLU:OE2	2.38	0.55
45:UC:352:LYS:NZ	46:UD:178:THR:HA	2.22	0.55
46:UL:97:ALA:HB3	46:UL:143:THR:HB	1.89	0.55
45:UM:103:PHE:HD2	45:UM:413:MET:HE1	1.72	0.55
45:VA:98:ASP:CG	45:VA:100:ALA:H	2.14	0.55
45:VG:174:SER:HB2	45:VG:177:VAL:HB	1.89	0.55
46:WD:266:PHE:CE1	46:WD:370:ASN:HB2	2.42	0.55
45:WE:398:MET:HE3	46:WF:346:PRO:HD2	1.88	0.55
45:WG:66:VAL:HG11	45:WG:122:ILE:HD11	1.87	0.55
46:WJ:290:THR:HA	46:WJ:293:MET:HG3	1.88	0.55
45:WK:328:VAL:HG11	45:WK:353:VAL:HG21	1.87	0.55
46:WL:58:ARG:HD2	46:WL:59:TYR:H	1.72	0.55
46:WL:154:LYS:O	46:WL:157:GLU:HG2	2.06	0.55
2:0B:13:MET:HE1	46:IH:45:GLU:HG2	1.89	0.55
3:0C:86:LYS:HE2	46:EH:42:LEU:HD21	1.87	0.55
6:0F:50:LYS:O	6:0F:55:ILE:HG13	2.07	0.55
6:0F:80:TYR:CE2	45:EE:81:GLY:HA3	2.42	0.55
8:0H:437:ARG:HH11	8:0H:437:ARG:HA	1.71	0.55
15:0X:65:ASN:OD1	15:0X:66:GLU:N	2.39	0.55
16:1B:346:PHE:CE1	22:1M:213:PHE:HB2	2.41	0.55
21:1L:308:ARG:CZ	45:BG:367:ASP:HA	2.37	0.55
21:1L:428:GLN:C	21:1L:430:LEU:H	2.15	0.55
9:1N:216:GLN:HG3	9:1N:237:CYS:HB3	1.87	0.55
23:1O:210:ILE:HD13	45:UC:282:TYR:CE2	2.42	0.55
23:1O:220:VAL:O	23:1O:223:ARG:HD3	2.07	0.55
25:1R:454:ARG:HH21	46:FD:219:THR:CG2	2.19	0.55
11:1S:46:TRP:CH2	45:WC:88:HIS:HA	2.41	0.55
13:1U:115:GLN:HG3	13:1U:116:TYR:CD1	2.40	0.55
26:1W:239:ARG:HG2	46:LB:279:GLN:NE2	2.22	0.55
23:2O:320:ARG:HA	23:2O:320:ARG:NH1	2.21	0.55
23:2O:320:ARG:HA	23:2O:320:ARG:HH11	1.71	0.55
26:2W:265:LEU:HD22	45:LK:370:LYS:HZ1	1.72	0.55
21:3L:163:ARG:HH22	45:BA:75:ILE:HG22	1.72	0.55
13:3U:166:LEU:HD23	13:3U:171:GLN:HB2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:4R:424:LEU:HB3	34:4R:426:PHE:HE2	1.72	0.55
35:4S:213:ASN:O	35:4S:217:LEU:HD13	2.06	0.55
37:5F:120:GLU:HG3	37:5F:121:GLU:HG2	1.89	0.55
41:6H:273:PRO:HA	41:6H:276:ILE:HD13	1.89	0.55
46:AB:230:SER:HA	46:AB:233:MET:HE3	1.88	0.55
46:AD:299:MET:HE1	46:AD:367:PHE:HD2	1.72	0.55
46:AH:86:ARG:HG2	46:AH:88:ASP:H	1.72	0.55
46:AL:283:ALA:HA	46:ML:55:THR:HG23	1.87	0.55
45:BG:11:GLN:HG3	45:BG:74:VAL:HG11	1.89	0.55
46:BH:67:ASP:O	46:BH:92:PHE:HA	2.06	0.55
46:CB:256:ASN:HB3	46:CB:350:LYS:HE3	1.88	0.55
45:CI:345:ASP:OD1	45:CI:346:TRP:N	2.39	0.55
46:CL:245:GLN:HG3	46:CL:246:LEU:HD12	1.88	0.55
46:DF:2:ARG:NH2	45:DG:71:GLU:OE1	2.39	0.55
45:DI:306:ASP:OD1	45:DI:308:ARG:NH2	2.39	0.55
46:DL:287:PRO:HA	46:DL:329:GLN:HE22	1.71	0.55
45:DM:315:CYS:SG	45:DM:377:MET:HE2	2.47	0.55
46:EL:318:ARG:HH22	46:EL:358:PRO:HB3	1.72	0.55
45:EM:261:PRO:HD2	45:EM:262:TYR:N	2.06	0.55
46:FB:67:ASP:HB3	46:FB:73:MET:HE1	1.87	0.55
46:FD:73:MET:HA	46:FD:76:VAL:HG12	1.87	0.55
46:FF:139:LEU:HD22	46:FF:170:VAL:HG12	1.88	0.55
46:GF:134:GLN:HA	46:GF:165:GLU:O	2.06	0.55
46:GJ:86:ARG:HG3	46:GJ:88:ASP:H	1.71	0.55
45:HA:72:PRO:HD2	46:HB:2:ARG:HH12	1.71	0.55
45:HC:101:ASN:HA	45:HC:144:GLY:H	1.71	0.55
45:HE:101:ASN:HA	45:HE:144:GLY:H	1.71	0.55
46:HJ:293:MET:HE1	46:HJ:315:ALA:HB2	1.88	0.55
45:IG:207:GLU:HA	45:IG:210:TYR:HB2	1.89	0.55
45:IM:8:HIS:HB2	45:IM:67:PHE:HD2	1.71	0.55
45:IM:60:LYS:HE2	46:JN:281:TYR:CD1	2.42	0.55
45:JG:117:LEU:O	45:JG:121:ARG:HG2	2.07	0.55
45:JM:219:ILE:HG13	45:JM:221:ARG:H	1.71	0.55
46:KN:334:GLN:HE22	46:KN:348:ASN:H	1.53	0.55
46:LD:73:MET:CE	46:LD:92:PHE:HB3	2.37	0.55
46:LH:122:LYS:NZ	46:MH:291:GLN:OE1	2.36	0.55
45:MC:324:VAL:HG12	45:MC:326:LYS:H	1.71	0.55
45:MK:1:MET:HE2	46:MN:70:PRO:HG3	1.88	0.55
45:MK:287:SER:N	45:MK:290:GLU:OE2	2.35	0.55
45:MM:69:ASP:OD1	45:MM:70:LEU:N	2.39	0.55
45:NA:215:ARG:HH12	45:NA:300:ASN:HD21	1.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:NB:224:ASP:OD1	46:NB:225:LEU:N	2.39	0.55
46:NH:87:PRO:HA	46:NH:90:PHE:HD2	1.71	0.55
45:NI:296:PHE:HE1	45:NI:377:MET:HG3	1.71	0.55
46:NJ:73:MET:HE1	46:NJ:92:PHE:CD1	2.41	0.55
45:NM:74:VAL:HA	45:NM:77:GLU:OE1	2.07	0.55
45:OI:121:ARG:NH2	45:OI:125:LEU:HD21	2.22	0.55
45:OI:268:MET:HG3	45:OI:380:ASN:HB2	1.88	0.55
45:PI:402:ARG:NH2	45:PI:415:GLU:OE1	2.39	0.55
45:PK:88:HIS:CE1	45:PK:90:GLU:HG2	2.41	0.55
46:PL:226:ASN:HA	46:PL:229:VAL:HG12	1.87	0.55
45:QA:32:PRO:O	45:QA:85:GLN:NE2	2.40	0.55
45:QE:66:VAL:HG21	45:QE:122:ILE:HD11	1.88	0.55
45:QI:254:GLU:OE1	46:QJ:99:ASN:ND2	2.40	0.55
45:QK:141:VAL:HG11	45:QK:172:TYR:CD1	2.38	0.55
46:RD:21:TRP:CZ3	46:RD:61:PRO:HB3	2.41	0.55
46:RD:380:ARG:O	46:RD:384:GLN:HG2	2.07	0.55
45:RI:265:ILE:HD11	45:RI:435:VAL:HG21	1.88	0.55
45:RI:419:SER:O	45:RI:423:GLU:HG2	2.07	0.55
45:RM:256:GLN:HB2	45:RM:260:VAL:HB	1.88	0.55
46:SH:66:MET:HE3	46:SH:67:ASP:N	2.21	0.55
46:SH:330:MET:HA	46:SH:330:MET:HE2	1.89	0.55
46:SL:186:THR:HG23	46:SL:415:MET:HE1	1.89	0.55
46:TD:347:ASN:ND2	45:TE:176:GLN:O	2.39	0.55
45:TE:288:VAL:HA	45:TE:291:ILE:HG12	1.87	0.55
46:TF:151:LEU:HA	46:TF:154:LYS:HZ3	1.72	0.55
45:TG:76:ASP:OD1	45:TG:79:ARG:NH2	2.39	0.55
45:TI:252:ILE:HA	45:TI:255:PHE:HE2	1.71	0.55
45:TI:336:LYS:HD3	45:TI:351:PHE:HE2	1.72	0.55
46:TJ:226:ASN:HA	46:TJ:229:VAL:HG12	1.89	0.55
45:UA:76:ASP:OD1	45:UA:79:ARG:NH2	2.40	0.55
45:UK:69:ASP:OD1	45:UK:70:LEU:N	2.40	0.55
46:UN:87:PRO:HA	46:UN:90:PHE:HD2	1.70	0.55
46:UN:114:ASP:OD1	46:UN:115:SER:N	2.40	0.55
46:VB:190:HIS:ND1	46:VB:411:ALA:HA	2.21	0.55
45:VC:17:GLY:HA2	45:VC:20:CYS:SG	2.46	0.55
45:VE:65:ALA:O	45:VE:91:GLN:NE2	2.40	0.55
46:VH:60:VAL:HG21	46:VH:86:ARG:HD3	1.88	0.55
45:WA:205:ASP:OD2	45:WA:205:ASP:N	2.40	0.55
46:WD:19:LYS:HZ1	46:WD:227:HIS:HA	1.72	0.55
46:WD:350:LYS:HD3	46:WD:351:SER:H	1.72	0.55
45:WG:352:LYS:HE2	46:WJ:178:THR:HA	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0B:161:PHE:HD2	9:1N:35:LYS:HD3	1.71	0.55
9:0N:61:SER:OG	9:0N:72:TYR:HB3	2.07	0.55
10:0Q:15:TYR:CZ	10:0Q:17:ILE:HD13	2.42	0.55
16:1B:209:ASP:O	16:1B:213:ILE:HD12	2.06	0.55
17:1F:44:LEU:HD22	8:1H:91:GLN:HE21	1.72	0.55
21:1L:517:ARG:NH2	21:1L:612:GLU:O	2.37	0.55
25:1R:260:LYS:H	25:1R:349:THR:HG21	1.71	0.55
11:1S:26:ILE:HD11	45:WC:45:GLY:HA3	1.88	0.55
13:1U:224:ARG:HH12	45:WC:40:LYS:HE2	1.70	0.55
26:1W:252:GLN:O	26:1W:256:ARG:HG2	2.07	0.55
1:2A:136:ASN:HA	1:2A:139:GLN:HG2	1.89	0.55
4:2D:75:ASP:HA	46:EJ:362:LYS:HE3	1.89	0.55
10:2Q:94:LEU:HB2	10:2Q:152:LEU:HD21	1.87	0.55
25:2R:382:TYR:OH	25:2R:386:GLY:O	2.24	0.55
14:2V:251:LEU:O	14:2V:255:ILE:HG12	2.07	0.55
21:3L:101:PHE:CE2	21:3L:105:ILE:HD11	2.41	0.55
15:4X:49:ILE:O	15:4X:53:ILE:HG12	2.07	0.55
36:5D:87:ARG:HD3	36:5D:87:ARG:N	2.22	0.55
37:5E:144:LEU:O	37:5E:147:GLN:HG3	2.07	0.55
10:5Q:179:PRO:HA	10:5Q:182:LYS:HG2	1.89	0.55
40:6G:88:TYR:CZ	45:UK:79:ARG:HB3	2.42	0.55
40:6G:124:GLU:HA	40:6G:128:LYS:HB2	1.89	0.55
45:AC:209:ILE:HA	45:AC:212:ILE:HG12	1.87	0.55
45:AI:256:GLN:HB3	46:AL:397:TRP:CH2	2.41	0.55
46:AJ:31:ASP:OD1	46:AJ:35:THR:N	2.32	0.55
46:AJ:67:ASP:OD1	46:AJ:68:LEU:N	2.40	0.55
46:AN:217:LEU:HD11	46:AN:220:PRO:HB3	1.87	0.55
46:CB:68:LEU:HD12	46:CB:93:GLY:HA3	1.88	0.55
46:CF:109:GLY:O	46:CF:113:ILE:HG23	2.07	0.55
45:CK:258:ASN:HB3	45:CK:352:LYS:HD2	1.88	0.55
46:DD:99:ASN:ND2	45:DC:254:GLU:OE2	2.40	0.55
46:DF:153:SER:O	46:DF:157:GLU:HG2	2.07	0.55
46:DJ:302:ALA:HB3	46:DJ:377:MET:HE1	1.87	0.55
46:DL:318:ARG:HB3	46:DL:357:PRO:HA	1.88	0.55
45:DM:174:SER:HB2	45:DM:177:VAL:O	2.06	0.55
45:DM:317:MET:HE1	45:DM:351:PHE:HD2	1.71	0.55
46:EB:221:THR:HG23	46:EB:224:ASP:H	1.71	0.55
45:EC:33:ASP:HA	45:EC:85:GLN:HE21	1.71	0.55
45:EI:244:PHE:HB2	45:EI:356:ASN:HD21	1.71	0.55
45:EM:262:TYR:HB2	45:EM:265:ILE:HD12	1.89	0.55
46:FJ:167:PHE:CE1	46:FJ:233:MET:HG2	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GA:387:VAL:HA	45:GA:390:ARG:HG2	1.87	0.55
46:GB:282:ARG:HH21	46:GB:288:GLU:CD	2.15	0.55
46:GF:178:THR:HB	46:GF:181:GLU:HG3	1.89	0.55
45:GK:292:THR:HG21	45:GK:331:SER:HB3	1.88	0.55
45:HC:141:VAL:HG11	45:HC:172:TYR:CD1	2.42	0.55
45:HE:326:LYS:HD3	46:HH:220:PRO:HD2	1.89	0.55
45:IK:401:LYS:HZ1	46:IL:344:TRP:CD1	2.25	0.55
45:JA:133:GLN:HB3	45:JA:252:ILE:HG21	1.89	0.55
46:JF:114:ASP:OD1	46:JF:115:SER:N	2.39	0.55
46:JF:128:ASP:OD1	46:JF:129:CYS:N	2.39	0.55
45:JG:155:GLU:HA	45:JG:197:HIS:CE1	2.41	0.55
45:JG:297:GLU:OE1	45:JG:298:PRO:HD2	2.06	0.55
45:JG:394:LYS:HG3	46:JH:346:PRO:HG3	1.88	0.55
46:JH:67:ASP:OD2	46:JH:68:LEU:N	2.40	0.55
46:JH:313:ALA:HB3	46:JH:349:ILE:HG22	1.89	0.55
46:JN:171:PRO:HB3	46:JN:181:GLU:HG2	1.88	0.55
45:KC:320:ARG:HD3	45:KC:360:PRO:HG3	1.88	0.55
46:KD:207:LEU:HB3	46:KD:225:LEU:HD22	1.89	0.55
46:LB:107:THR:HG23	46:LB:108:GLU:OE1	2.06	0.55
46:LB:132:GLY:HA3	46:LB:163:ILE:HG22	1.88	0.55
46:LB:293:MET:CE	46:LB:367:PHE:HB2	2.37	0.55
46:LD:66:MET:HE1	46:LD:147:MET:HG2	1.89	0.55
46:LN:313:ALA:HB3	46:LN:349:ILE:HG13	1.89	0.55
46:MF:8:GLN:OE1	46:MF:17:GLY:HA3	2.07	0.55
45:MG:68:LEU:HD11	45:MG:118:CYS:SG	2.47	0.55
45:MI:211:ASP:O	45:MI:215:ARG:HG2	2.07	0.55
46:ND:285:THR:N	46:ND:288:GLU:OE2	2.39	0.55
46:NL:236:VAL:HG13	46:NL:237:THR:HG23	1.88	0.55
46:QF:31:ASP:OD2	46:QF:37:HIS:ND1	2.40	0.55
46:QL:12:CYS:O	46:QL:16:ILE:HD12	2.06	0.55
46:QL:266:PHE:CZ	46:QL:370:ASN:HB2	2.42	0.55
45:QM:109:THR:O	45:QM:112:LYS:NZ	2.39	0.55
46:QN:66:MET:HE2	46:QN:147:MET:HE3	1.87	0.55
45:RI:171:ILE:O	45:RI:171:ILE:HG13	2.06	0.55
45:RK:265:ILE:HG22	45:RK:380:ASN:HD21	1.70	0.55
45:SA:284:GLU:HG3	45:SA:286:LEU:HD22	1.88	0.55
46:SD:91:VAL:HG11	46:SD:116:VAL:HB	1.88	0.55
46:SD:210:ILE:O	46:SD:214:THR:OG1	2.20	0.55
45:SK:329:ASN:HA	45:SK:332:ILE:HG12	1.89	0.55
46:SL:192:LEU:HD21	46:SL:199:CYS:SG	2.47	0.55
46:TB:145:SER:HB2	46:TB:188:SER:HB3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TI:60:LYS:NZ	45:UI:282:TYR:HD1	2.04	0.55
45:TI:244:PHE:HB2	45:TI:356:ASN:HD21	1.71	0.55
46:TJ:255:VAL:HA	45:TK:407:TRP:CZ3	2.42	0.55
45:TK:81:GLY:O	45:TK:84:ARG:HD3	2.05	0.55
46:TL:272:PRO:O	46:TL:273:LEU:HD23	2.07	0.55
45:TM:176:GLN:NE2	45:TM:207:GLU:OE2	2.40	0.55
46:UD:73:MET:HA	46:UD:76:VAL:HG12	1.88	0.55
46:UL:7:ILE:HG13	46:UL:64:ILE:HB	1.88	0.55
46:UN:276:ARG:NH2	46:UN:277:GLY:HA2	2.21	0.55
46:VD:72:THR:O	46:VD:75:SER:OG	2.22	0.55
45:VE:372:MET:HG2	45:VE:373:ARG:HG3	1.87	0.55
46:VN:209:ASP:OD1	46:VN:213:ARG:NE	2.24	0.55
45:WC:254:GLU:HG2	46:WF:98:GLY:HA2	1.89	0.55
45:WC:260:VAL:HB	46:WF:397:TRP:HZ2	1.70	0.55
45:WE:326:LYS:HG3	46:WH:220:PRO:HG2	1.88	0.55
2:0B:217:SER:OG	2:0B:219:LEU:O	2.22	0.55
7:0G:177:MET:HE1	45:LM:333:ALA:HB3	1.89	0.55
7:0G:179:ILE:HG13	7:0G:180:PRO:HD3	1.89	0.55
9:0N:16:ILE:HG22	46:IN:48:ASN:HD22	1.72	0.55
18:1I:19:GLN:NE2	46:ID:45:GLU:OE1	2.40	0.55
23:1O:189:ILE:HA	46:UD:276:ARG:NH2	2.22	0.55
12:1T:277:THR:OG1	13:1U:352:ARG:NH2	2.40	0.55
13:1U:494:LYS:HB3	13:1U:508:THR:HG23	1.89	0.55
15:1X:78:ASN:ND2	46:MF:280:GLN:HG3	2.20	0.55
16:2B:63:GLN:HE22	45:LK:84:ARG:NE	2.04	0.55
31:2I:80:TYR:CE2	45:FE:119:LEU:HB3	2.41	0.55
11:2S:41:SER:OG	11:2S:43:TYR:O	2.19	0.55
27:3C:225:THR:N	45:KA:220:GLU:OE2	2.40	0.55
32:3D:152:GLN:NE2	32:3D:153:THR:HG23	2.22	0.55
5:3E:37:TYR:OH	5:3E:39:ARG:NH2	2.40	0.55
10:4Q:115:LYS:O	10:4Q:144:TYR:OH	2.16	0.55
15:4X:98:ALA:O	15:4X:102:GLU:HG2	2.07	0.55
37:5F:27:ARG:HH22	45:OC:221:ARG:HH21	1.55	0.55
34:5R:184:ASP:O	34:5R:187:THR:OG1	2.24	0.55
34:5R:528:ILE:O	34:5R:531:THR:OG1	2.19	0.55
40:6G:234:PRO:HG3	45:VC:215:ARG:NH1	2.21	0.55
45:AA:161:TYR:HB3	45:AA:164:LYS:HE2	1.87	0.55
46:AB:45:GLU:OE1	46:AB:45:GLU:N	2.38	0.55
46:AD:232:ALA:HB1	46:AD:268:ILE:HD12	1.88	0.55
46:AJ:173:PRO:HG2	46:AJ:380:ARG:HE	1.71	0.55
46:AJ:222:TYR:HD2	49:AJ:501:GDP:C6	2.25	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AM:141:VAL:HG11	45:AM:172:TYR:CD1	2.41	0.55
45:BA:88:HIS:O	45:BA:91:GLN:HG2	2.06	0.55
45:BA:258:ASN:ND2	45:BA:352:LYS:HD3	2.22	0.55
46:BJ:362:LYS:HG3	46:BJ:363:MET:SD	2.47	0.55
45:BK:88:HIS:O	45:BK:91:GLN:HG2	2.07	0.55
46:CL:257:LEU:HD21	46:CL:314:SER:HB3	1.87	0.55
45:CM:426:ALA:HB1	45:CM:430:LYS:NZ	2.22	0.55
46:CN:135:ILE:HG13	46:CN:152:ILE:HD11	1.89	0.55
46:DD:398:TYR:O	46:DD:403:MET:HB3	2.07	0.55
46:DL:318:ARG:HB2	46:DL:364:ALA:HB3	1.89	0.55
46:FB:287:PRO:O	46:FB:290:THR:HG22	2.07	0.55
45:FI:419:SER:O	45:FI:423:GLU:HG2	2.06	0.55
45:FK:47:ASP:OD1	45:FK:48:ALA:N	2.37	0.55
46:GB:58:ARG:HH21	46:HB:281:TYR:HA	1.71	0.55
46:GB:268:ILE:HG22	46:GB:368:VAL:HG13	1.89	0.55
45:GC:226:ASN:O	45:GC:230:LEU:HG	2.07	0.55
46:GD:204:ASN:O	46:GD:208:TYR:HD2	1.89	0.55
46:GL:25:SER:OG	46:GL:51:TYR:OH	2.25	0.55
45:HK:147:SER:HB2	45:HK:190:SER:OG	2.07	0.55
45:IA:123:ARG:NH2	45:IA:127:ASP:OD1	2.39	0.55
46:ID:68:LEU:HD12	46:ID:93:GLY:HA3	1.88	0.55
46:IH:44:LEU:HA	46:IH:47:ILE:HG23	1.88	0.55
46:IN:200:MET:SD	46:IN:266:PHE:HB2	2.47	0.55
46:JB:139:LEU:HD12	46:JB:170:VAL:HG12	1.88	0.55
46:JF:372:THR:HA	46:JF:422:TYR:HE2	1.72	0.55
45:JG:268:MET:HG2	45:JG:380:ASN:HB2	1.89	0.55
46:JH:86:ARG:NH1	46:KH:281:TYR:O	2.40	0.55
45:KI:69:ASP:HB3	45:KI:75:ILE:HD11	1.89	0.55
46:KL:398:TYR:HD2	46:KL:408:PHE:HZ	1.55	0.55
46:LD:63:ALA:O	46:LD:89:ASN:ND2	2.39	0.55
46:LN:86:ARG:HE	46:LN:87:PRO:HD2	1.70	0.55
45:ME:248:LEU:HB3	45:ME:355:ILE:HG22	1.88	0.55
46:MN:248:SER:HA	46:MN:252:LYS:HG3	1.88	0.55
46:NB:67:ASP:O	46:NB:92:PHE:HA	2.05	0.55
45:NG:109:THR:HG22	45:NG:110:ILE:HG23	1.88	0.55
45:NG:177:VAL:HB	46:NH:327:ASP:OD2	2.07	0.55
46:NJ:97:ALA:HA	46:NJ:103:LYS:HD2	1.88	0.55
45:NM:105:ARG:HG2	45:NM:411:GLU:OE1	2.07	0.55
45:NM:216:ASN:HD22	45:NM:275:ILE:HB	1.72	0.55
45:OC:104:ALA:HB2	45:OC:413:MET:HB2	1.87	0.55
46:OL:180:VAL:O	46:OL:180:VAL:HG12	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PB:31:ASP:OD2	46:PB:37:HIS:ND1	2.40	0.55
45:PG:265:ILE:HG12	45:PG:432:TYR:HE1	1.72	0.55
45:PG:318:MET:HB3	45:PG:376:CYS:SG	2.47	0.55
45:QG:209:ILE:HG23	45:QG:227:LEU:HD22	1.89	0.55
46:QL:7:ILE:HG13	46:QL:135:ILE:HG13	1.89	0.55
45:QM:231:ILE:O	45:QM:235:ILE:HG12	2.06	0.55
45:RC:346:TRP:CD1	46:RD:391:ARG:HG3	2.42	0.55
46:RF:403:MET:HE1	46:RF:408:PHE:HE1	1.72	0.55
46:RJ:221:THR:HG23	46:RJ:224:ASP:H	1.72	0.55
45:SA:212:ILE:HD13	45:SA:215:ARG:HH21	1.72	0.55
46:SB:21:TRP:CZ3	46:SB:61:PRO:HB3	2.41	0.55
46:SB:210:ILE:O	46:SB:214:THR:OG1	2.21	0.55
46:SB:304:ASP:OD2	46:SB:306:ARG:NH1	2.39	0.55
46:SH:286:VAL:HG23	46:SH:287:PRO:HD3	1.89	0.55
46:SH:394:PHE:HA	46:SH:397:TRP:HZ3	1.72	0.55
45:SI:284:GLU:HG3	45:SI:286:LEU:HD22	1.89	0.55
45:SK:118:CYS:O	45:SK:122:ILE:HG12	2.06	0.55
46:SL:199:CYS:O	46:SL:200:MET:HE2	2.06	0.55
46:SL:269:GLY:C	46:SL:293:MET:HE1	2.32	0.55
45:SM:277:SER:OG	45:SM:280:LYS:NZ	2.38	0.55
46:TF:117:LEU:HB3	46:TF:121:ARG:NH2	2.22	0.55
45:TG:239:THR:HG23	45:TG:243:ARG:HH12	1.71	0.55
46:TJ:86:ARG:HD2	46:TJ:87:PRO:HD2	1.88	0.55
45:TK:141:VAL:HG11	45:TK:172:TYR:HD1	1.72	0.55
46:TL:313:ALA:HB1	46:TL:367:PHE:HE1	1.72	0.55
45:UA:288:VAL:HA	45:UA:291:ILE:HG12	1.89	0.55
46:UB:3:GLU:CD	46:UB:3:GLU:H	2.14	0.55
46:UB:214:THR:HG23	46:UB:297:LYS:NZ	2.22	0.55
46:UB:375:GLN:HE21	46:UB:423:GLN:HG2	1.70	0.55
46:UF:49:VAL:HG21	46:UF:241:ARG:HG2	1.89	0.55
45:VA:103:PHE:CD2	45:VA:413:MET:HE1	2.42	0.55
45:VE:141:VAL:HG11	45:VE:172:TYR:CD1	2.41	0.55
45:VG:326:LYS:NZ	46:VJ:220:PRO:O	2.38	0.55
45:VK:118:CYS:O	45:VK:122:ILE:HG12	2.07	0.55
46:WB:237:THR:HG23	46:WB:241:ARG:HE	1.72	0.55
45:WE:244:PHE:HB2	45:WE:356:ASN:HD21	1.71	0.55
45:WI:36:MET:HE3	45:WI:37:PRO:HD2	1.89	0.55
46:WJ:309:ARG:NH2	46:WJ:426:GLN:O	2.28	0.55
46:WL:293:MET:HE1	46:WL:315:ALA:HB2	1.88	0.55
8:1H:344:SER:HA	8:1H:347:ARG:HE	1.72	0.55
8:1H:409:GLU:HG2	8:1H:410:LEU:HG	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:1J:231:LYS:O	19:1J:234:GLU:HG3	2.07	0.55
13:1U:447:GLU:HG2	45:WE:279:GLU:HB3	1.89	0.55
14:1V:119:ILE:HG23	14:1V:120:GLU:H	1.70	0.55
1:3A:112:LEU:HD11	25:3R:166:TYR:CE2	2.41	0.55
32:3D:94:TRP:O	32:3D:98:ILE:HG12	2.07	0.55
12:3T:135:GLN:HG3	12:3T:140:GLN:HB3	1.88	0.55
27:4C:6:VAL:HG13	27:4C:9:ASN:HB2	1.89	0.55
37:5H:27:ARG:NH1	45:OK:221:ARG:HH12	2.05	0.55
10:5Q:15:TYR:CE2	10:5Q:17:ILE:HB	2.42	0.55
10:5Q:73:LEU:HD22	10:5Q:169:ASP:HB2	1.89	0.55
34:5R:487:GLU:HB3	34:5R:523:PHE:HZ	1.70	0.55
34:6R:444:ILE:HD11	34:6R:503:PHE:HD2	1.72	0.55
45:AC:55:GLU:HG3	45:AC:57:GLY:H	1.71	0.55
45:BA:179:THR:HG22	46:BB:350:LYS:HZ1	1.70	0.55
45:BG:70:LEU:HD12	45:BG:145:THR:HG22	1.89	0.55
46:CB:289:LEU:HD13	46:CB:365:VAL:HG23	1.89	0.55
46:CH:45:GLU:OE1	46:CH:46:ARG:HD3	2.07	0.55
45:CI:69:ASP:OD2	45:CI:71:GLU:HG2	2.07	0.55
46:CJ:99:ASN:HA	46:CJ:142:GLY:H	1.71	0.55
46:CJ:140:GLY:HA2	46:CJ:181:GLU:OE2	2.07	0.55
46:CL:287:PRO:O	46:CL:290:THR:HG22	2.07	0.55
46:CL:314:SER:HA	46:CL:350:LYS:HB3	1.89	0.55
45:DA:108:TYR:HA	45:DA:112:LYS:HE3	1.88	0.55
45:DG:123:ARG:NH1	45:DG:161:TYR:OH	2.38	0.55
46:DH:167:PHE:HD2	46:DH:202:ILE:HD11	1.72	0.55
46:DH:210:ILE:HD11	46:DH:299:MET:O	2.07	0.55
46:DJ:6:HIS:O	46:DJ:63:ALA:HA	2.07	0.55
46:DN:257:LEU:HD11	46:DN:314:SER:HB2	1.89	0.55
46:EH:238:CYS:SG	46:EH:239:CYS:N	2.80	0.55
46:EL:382:ALA:HB2	46:EL:415:MET:HE1	1.89	0.55
46:FN:387:ALA:O	46:FN:390:ARG:NH1	2.40	0.55
46:GD:5:VAL:HG12	46:GD:62:ARG:HD3	1.89	0.55
45:GK:414:GLU:CD	45:GK:416:GLY:H	2.13	0.55
46:GL:293:MET:HG3	46:GL:294:PHE:HD1	1.71	0.55
45:HA:116:ASP:OD1	45:HA:117:LEU:N	2.39	0.55
46:HF:222:TYR:O	46:HF:226:ASN:ND2	2.24	0.55
46:HJ:226:ASN:ND2	49:HJ:501:GDP:HN1	1.99	0.55
45:IC:401:LYS:HZ1	46:ID:344:TRP:CD1	2.25	0.55
46:ID:67:ASP:O	46:ID:92:PHE:HA	2.07	0.55
45:IG:140:SER:OG	47:IG:501:GTP:O2B	2.24	0.55
45:IK:387:VAL:HA	45:IK:390:ARG:HG2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JF:211:CYS:HB3	46:JF:217:LEU:HD21	1.89	0.55
45:JG:311:LYS:HE3	45:JG:342:GLN:HG3	1.89	0.55
45:JI:180:ALA:HA	46:JJ:350:LYS:HZ3	1.72	0.55
45:JK:127:ASP:OD1	45:JK:128:ASN:N	2.39	0.55
45:KA:46:ASP:O	45:KA:48:ALA:N	2.40	0.55
45:KA:55:GLU:O	45:LA:285:GLN:NE2	2.35	0.55
45:KC:103:PHE:HB2	45:KC:186:ASN:HB3	1.88	0.55
45:KM:301:MET:HG3	45:KM:303:ALA:H	1.71	0.55
45:LI:210:TYR:HE1	45:LI:227:LEU:HD11	1.71	0.55
46:LJ:334:GLN:NE2	46:LJ:348:ASN:OD1	2.39	0.55
46:LN:20:PHE:CG	46:LN:233:MET:HE2	2.42	0.55
46:ML:102:ALA:HB2	46:ML:398:TYR:HD1	1.70	0.55
46:ML:295:ASP:OD2	46:ML:297:LYS:HG2	2.06	0.55
46:NF:67:ASP:OD2	46:NF:68:LEU:N	2.40	0.55
46:OB:139:LEU:HD13	46:OB:168:SER:HB3	1.89	0.55
45:OI:147:SER:HB2	45:OI:190:SER:HB2	1.88	0.55
45:PC:100:ALA:HA	46:PD:252:LYS:HG2	1.89	0.55
46:PL:389:PHE:HD2	46:PL:390:ARG:HH22	1.55	0.55
46:QD:32:PRO:O	46:QD:83:GLN:NE2	2.39	0.55
46:QD:256:ASN:HD21	45:QE:181:VAL:H	1.55	0.55
46:QF:254:ALA:O	46:QF:258:ILE:HG12	2.07	0.55
45:RA:288:VAL:HG11	45:RA:327:ASP:HB3	1.88	0.55
45:RC:223:THR:HG23	45:RC:225:THR:H	1.72	0.55
45:RE:27:GLU:CD	45:RE:243:ARG:HH12	2.15	0.55
46:RH:262:ARG:NH1	46:RH:421:GLU:OE1	2.39	0.55
45:SM:136:LEU:HD22	45:SM:169:PHE:HE2	1.70	0.55
45:TA:274:PRO:HG2	45:TA:371:VAL:HG11	1.89	0.55
46:TF:156:ARG:HH12	46:TF:160:PRO:HA	1.72	0.55
46:TH:319:GLY:HA3	46:TH:362:LYS:O	2.06	0.55
45:TI:120:ASP:HB3	45:TI:124:LYS:HZ1	1.72	0.55
46:TJ:86:ARG:HE	46:UJ:282:ARG:NH1	2.04	0.55
46:TJ:330:MET:SD	46:TJ:349:ILE:HG21	2.47	0.55
46:TJ:372:THR:HA	46:TJ:422:TYR:CE2	2.42	0.55
46:TL:275:SER:O	46:TL:279:GLN:N	2.40	0.55
45:TM:192:HIS:CD2	45:TM:421:ALA:HA	2.42	0.55
45:UA:328:VAL:HG11	45:UA:353:VAL:HG21	1.89	0.55
46:UD:189:VAL:HA	46:UD:192:LEU:HB2	1.87	0.55
45:UE:2:ARG:HA	45:UE:133:GLN:HE22	1.71	0.55
45:UE:391:LEU:HA	45:UE:394:LYS:HZ3	1.72	0.55
46:UH:276:ARG:NH1	46:UH:276:ARG:O	2.39	0.55
46:UJ:273:LEU:N	46:UJ:292:GLN:OE1	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UN:66:MET:HG2	46:UN:116:VAL:HG21	1.89	0.55
46:VL:173:PRO:HA	46:VL:176:SER:HB3	1.89	0.55
46:WD:99:ASN:HA	46:WD:142:GLY:H	1.72	0.55
45:WI:224:TYR:HD1	45:WI:227:LEU:HD12	1.72	0.55
45:WK:205:ASP:HB2	45:WK:304:LYS:HZ3	1.72	0.55
46:WN:375:GLN:C	46:WN:379:LYS:HZ2	2.15	0.55
45:DC:317:MET:HE1	45:DC:351:PHE:CD2	2.42	0.55
9:0N:88:ASN:ND2	9:0N:91:ASP:OD2	2.40	0.55
9:0N:121:TYR:HA	9:0N:138:LYS:HE3	1.89	0.55
9:0N:188:MET:HA	9:0N:208:LEU:HD23	1.87	0.55
10:0Q:7:GLN:HG2	10:0Q:11:LEU:HD22	1.88	0.55
13:0U:95:MET:HE1	13:0U:134:VAL:HG12	1.89	0.55
13:0U:133:ASP:HB2	13:0U:138:LYS:NZ	2.21	0.55
13:0U:463:GLN:OE1	13:0U:477:ASP:HA	2.06	0.55
15:0X:3:ARG:HD2	46:MD:15:GLN:NE2	2.21	0.55
7:1G:178:LYS:HE2	45:LA:329:ASN:HB2	1.88	0.55
8:1H:58:LYS:O	8:1H:61:GLU:HG3	2.07	0.55
8:1H:311:ASP:O	8:1H:315:GLN:HG2	2.06	0.55
8:1H:372:GLU:HA	8:1H:375:GLU:HG3	1.88	0.55
19:1J:56:PRO:HA	45:IC:221:ARG:HB2	1.89	0.55
20:1K:144:ASP:OD1	20:1K:147:ARG:NH2	2.38	0.55
21:1L:737:ASN:H	21:1L:792:LYS:HZ1	1.55	0.55
23:1O:267:ALA:HB3	45:UA:281:ALA:HB3	1.88	0.55
23:1O:271:ALA:HB3	45:UA:279:GLU:N	2.22	0.55
11:1S:96:LEU:HD22	11:1S:97:ARG:NH1	2.20	0.55
13:1U:542:THR:HA	13:1U:587:GLN:HE22	1.72	0.55
26:1W:211:ASP:OD1	26:1W:214:ARG:NH2	2.40	0.55
27:2C:277:LEU:HD22	27:2C:285:ILE:HD13	1.88	0.55
20:2K:402:ASP:OD1	20:2K:403:ILE:HD12	2.06	0.55
23:2O:273:LEU:O	23:2O:277:LYS:HG3	2.07	0.55
25:2R:31:GLU:OE2	25:2R:34:ARG:NH2	2.40	0.55
12:2T:61:GLY:O	12:2T:146:MET:HG2	2.06	0.55
27:3C:36:ARG:HH12	27:3C:89:LEU:HG	1.71	0.55
23:3O:460:LYS:O	23:3O:464:GLU:HG2	2.07	0.55
25:3R:365:GLU:HG3	25:3R:367:TYR:HB3	1.89	0.55
35:4S:114:GLU:CD	35:4S:115:PRO:HA	2.32	0.55
37:5F:123:ARG:HG3	45:OE:372:MET:SD	2.47	0.55
37:5F:184:GLN:O	37:5F:188:GLN:HB2	2.07	0.55
34:5R:574:ARG:HA	34:5R:574:ARG:NH1	2.21	0.55
45:AA:118:CYS:O	45:AA:122:ILE:HG12	2.07	0.55
46:AD:376:GLU:OE1	46:AD:380:ARG:NH2	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AE:11:GLN:HG3	45:AE:74:VAL:HG11	1.89	0.55
46:BD:87:PRO:HD2	46:CB:281:TYR:HD1	1.72	0.55
45:BK:387:VAL:HA	45:BK:390:ARG:HG2	1.90	0.55
45:BM:207:GLU:HA	45:BM:210:TYR:HB2	1.88	0.55
46:BN:235:GLY:HA2	46:BN:318:ARG:HH21	1.72	0.55
45:CI:275:ILE:O	45:CI:276:ILE:HD13	2.07	0.55
46:CN:42:LEU:HA	46:CN:45:GLU:HG3	1.89	0.55
46:DD:257:LEU:HD11	46:DD:314:SER:HB2	1.89	0.55
46:DD:288:GLU:N	46:DD:288:GLU:OE2	2.40	0.55
45:DE:439:THR:HB	46:DF:390:ARG:NH1	2.22	0.55
46:DF:324:LYS:HE3	45:DG:222:PRO:HG2	1.88	0.55
46:DF:392:LYS:HG3	46:DF:395:LEU:HD13	1.89	0.55
45:DG:141:VAL:HG11	45:DG:172:TYR:HD1	1.72	0.55
46:DH:267:MET:HG3	46:DH:299:MET:HE2	1.89	0.55
45:EA:206:ASN:OD1	47:EA:501:GTP:N2	2.40	0.55
46:EF:150:LEU:HG	46:EF:154:LYS:NZ	2.20	0.55
46:EF:210:ILE:O	46:EF:214:THR:OG1	2.19	0.55
46:EF:260:PHE:HB2	46:EF:263:LEU:HD13	1.88	0.55
45:EM:11:GLN:HA	45:EM:14:ILE:HG22	1.88	0.55
46:EN:309:ARG:NH2	46:EN:426:GLN:O	2.37	0.55
45:GA:121:ARG:HA	45:GA:124:LYS:HZ2	1.72	0.55
45:GA:258:ASN:HA	46:GD:179:VAL:HG11	1.87	0.55
46:GD:299:MET:HG3	46:GD:301:CYS:H	1.72	0.55
45:GE:187:SER:O	45:GE:191:THR:HG23	2.07	0.55
46:GF:267:MET:HE1	46:GF:303:ALA:HB3	1.89	0.55
46:GL:68:LEU:HB3	46:GL:96:GLY:HA2	1.88	0.55
46:GL:290:THR:HA	46:GL:293:MET:HE3	1.89	0.55
45:HC:205:ASP:OD2	45:HC:303:ALA:HA	2.06	0.55
46:HF:1:MET:O	46:HF:2:ARG:HG2	2.07	0.55
45:HK:2:ARG:HG3	45:HK:133:GLN:NE2	2.22	0.55
46:HN:42:LEU:HD22	46:HN:356:ILE:HD11	1.89	0.55
46:HN:207:LEU:HD13	46:HN:225:LEU:HB3	1.89	0.55
46:IB:178:THR:HB	46:IB:181:GLU:HG3	1.89	0.55
45:IC:269:LEU:HG	45:IC:301:MET:HE2	1.89	0.55
46:ID:1:MET:HA	46:ID:1:MET:HE3	1.89	0.55
46:ID:204:ASN:OD1	46:ID:205:GLU:N	2.40	0.55
45:IE:288:VAL:HG11	45:IE:327:ASP:HB3	1.88	0.55
45:IE:408:TYR:HD1	45:IE:418:PHE:HZ	1.55	0.55
45:II:180:ALA:HA	46:IJ:350:LYS:HZ1	1.70	0.55
46:JJ:326:VAL:O	46:JJ:330:MET:HG2	2.06	0.55
46:JN:222:TYR:HA	46:JN:225:LEU:HD12	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KD:318:ARG:HB2	46:KD:364:ALA:HB3	1.89	0.55
45:KE:98:ASP:OD2	45:KE:99:ALA:N	2.39	0.55
46:KH:386:THR:O	46:KH:390:ARG:HG2	2.07	0.55
45:LC:221:ARG:NH1	46:LD:322:SER:H	2.05	0.55
46:LH:286:VAL:HG21	46:LH:325:GLU:HB3	1.88	0.55
46:LJ:8:GLN:HE22	46:LJ:17:GLY:HA3	1.71	0.55
45:LK:60:LYS:NZ	45:LK:85:GLN:O	2.25	0.55
45:LM:69:ASP:O	45:LM:94:SER:HA	2.06	0.55
46:MB:173:PRO:HG2	46:MB:380:ARG:HE	1.72	0.55
45:MC:288:VAL:HA	45:MC:291:ILE:HG12	1.89	0.55
46:MN:49:VAL:HG21	46:MN:241:ARG:HG2	1.89	0.55
45:NA:19:ALA:HA	45:NA:22:GLU:OE1	2.05	0.55
45:NC:54:SER:HB3	45:NC:64:ARG:HE	1.72	0.55
46:ND:150:LEU:HD23	46:ND:154:LYS:NZ	2.22	0.55
45:NE:120:ASP:O	45:NE:124:LYS:HG2	2.07	0.55
46:NF:268:ILE:HG13	46:NF:300:MET:HE3	1.89	0.55
46:OD:48:ASN:O	46:OD:62:ARG:NH1	2.40	0.55
45:OE:251:ASP:OD1	45:OE:252:ILE:N	2.38	0.55
46:PB:178:THR:HB	46:PB:181:GLU:HG3	1.88	0.55
45:PE:229:ARG:HH12	45:PE:363:VAL:HG11	1.71	0.55
45:PG:128:ASN:ND2	45:QG:290:GLU:OE1	2.40	0.55
46:PL:267:MET:HG2	46:PL:299:MET:HE2	1.89	0.55
45:PM:90:GLU:HG3	45:PM:121:ARG:HH12	1.72	0.55
45:PM:210:TYR:CD2	46:PN:324:LYS:HG3	2.42	0.55
45:PM:230:LEU:HA	45:PM:233:GLN:NE2	2.22	0.55
45:QA:284:GLU:HG3	45:QA:286:LEU:HD22	1.89	0.55
45:QA:319:TYR:CE2	45:QA:328:VAL:HG22	2.42	0.55
46:QD:86:ARG:NH1	46:QD:88:ASP:HB3	2.21	0.55
45:QE:108:TYR:O	45:QE:112:LYS:NZ	2.38	0.55
46:QF:51:TYR:HB3	46:QF:59:TYR:HB3	1.88	0.55
46:QF:389:PHE:HZ	46:QF:405:GLU:HG3	1.72	0.55
46:QH:152:ILE:HG23	46:QH:164:MET:SD	2.47	0.55
46:QH:258:ILE:HD11	45:QI:407:TRP:HZ2	1.71	0.55
46:QL:31:ASP:OD2	46:QL:37:HIS:ND1	2.40	0.55
45:QM:284:GLU:HG3	45:QM:286:LEU:HD22	1.89	0.55
46:QN:166:THR:HG21	46:QN:192:LEU:HD11	1.89	0.55
45:RI:317:MET:HE1	45:RI:351:PHE:CD1	2.42	0.55
46:SH:1:MET:SD	46:SH:2:ARG:HG2	2.47	0.55
46:SN:262:ARG:NH1	46:SN:421:GLU:OE1	2.40	0.55
46:TB:241:ARG:NH1	46:TB:242:PHE:HD2	2.04	0.55
45:TC:33:ASP:HA	45:TC:85:GLN:HE21	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TD:221:THR:HG23	46:TD:224:ASP:H	1.72	0.55
46:TF:358:PRO:HD2	46:TF:361:LEU:HD11	1.89	0.55
45:TG:174:SER:HB2	45:TG:177:VAL:HB	1.89	0.55
46:TL:103:LYS:HB2	46:TL:401:GLU:OE1	2.07	0.55
45:TM:69:ASP:OD1	45:TM:70:LEU:N	2.39	0.55
46:UF:376:GLU:O	46:UF:380:ARG:HG2	2.06	0.55
46:VH:221:THR:HG23	46:VH:224:ASP:H	1.71	0.55
45:VK:70:LEU:HD13	45:VK:95:GLY:HA3	1.89	0.55
46:WL:226:ASN:HA	46:WL:229:VAL:HG12	1.89	0.55
46:WN:309:ARG:NH2	46:WN:426:GLN:O	2.32	0.55
4:0D:11:VAL:HG11	45:CC:79:ARG:HD3	1.89	0.54
4:0D:75:ASP:OD2	46:EB:361:LEU:HA	2.07	0.54
5:0E:24:ILE:HG22	5:0E:170:ALA:HB1	1.89	0.54
6:0F:187:PRO:HA	45:EE:84:ARG:HD2	1.89	0.54
7:0G:96:TYR:HA	7:0G:98:LYS:HE2	1.89	0.54
7:0G:110:ASN:HD22	7:0G:132:ARG:HE	1.55	0.54
12:0T:122:ARG:H	12:0T:199:ARG:HB3	1.72	0.54
5:1E:97:LYS:O	5:1E:101:LEU:HD23	2.07	0.54
7:1G:119:ILE:HG22	7:1G:120:TYR:H	1.72	0.54
18:1I:9:GLU:OE2	46:JD:219:THR:OG1	2.24	0.54
18:1I:27:TRP:CH2	45:IC:89:PRO:HB3	2.42	0.54
9:1N:155:SER:O	9:1N:169:GLN:NE2	2.40	0.54
10:1Q:68:THR:HG22	10:1Q:70:GLY:H	1.72	0.54
14:1V:221:LYS:NZ	46:VL:83:GLN:HG3	2.23	0.54
21:2L:620:LEU:O	21:2L:625:ARG:NH1	2.40	0.54
21:2L:900:HIS:HA	46:CJ:320:ARG:HH21	1.72	0.54
22:2M:67:TYR:CE1	46:IJ:80:PRO:HB3	2.42	0.54
23:2O:156:ARG:O	23:2O:159:GLN:HG3	2.07	0.54
25:2R:404:ARG:NH2	45:DG:57:GLY:O	2.35	0.54
12:2T:191:PHE:CD2	12:2T:192:VAL:HG13	2.43	0.54
26:2W:204:LYS:HA	26:2W:207:ILE:HD12	1.89	0.54
27:3C:64:PHE:CZ	27:3C:66:LEU:HD21	2.42	0.54
11:3S:279:LYS:HB3	11:3S:281:LEU:HD23	1.89	0.54
14:3V:24:ARG:HB3	45:MA:430:LYS:HE2	1.89	0.54
10:4Q:92:GLN:O	10:4Q:152:LEU:N	2.40	0.54
37:5G:168:LEU:HB3	37:5G:170:LYS:NZ	2.23	0.54
37:5H:26:GLY:HA2	45:OK:221:ARG:NH1	2.12	0.54
41:6H:174:MET:HA	41:6H:177:GLU:CD	2.32	0.54
41:6H:251:ASP:H	46:FF:360:GLY:HA2	1.72	0.54
34:7R:219:LYS:NZ	46:BD:78:ALA:HB3	2.22	0.54
45:AA:414:GLU:CD	45:AA:416:GLY:H	2.15	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AE:46:ASP:OD1	45:AE:47:ASP:N	2.40	0.54
46:AH:252:LYS:HG2	46:AH:350:LYS:HE3	1.89	0.54
46:AJ:245:GLN:HE21	46:AJ:245:GLN:HA	1.73	0.54
46:AJ:294:PHE:CD2	46:AJ:333:VAL:HG21	2.40	0.54
45:BI:98:ASP:O	45:BI:105:ARG:NH2	2.32	0.54
45:BI:345:ASP:OD1	45:BI:346:TRP:N	2.40	0.54
46:BN:139:LEU:HD13	46:BN:168:SER:HB3	1.88	0.54
46:CD:6:HIS:O	46:CD:63:ALA:HA	2.06	0.54
45:CM:310:GLY:HA3	45:CM:383:ALA:HB2	1.89	0.54
46:DB:68:LEU:HD12	46:DB:93:GLY:HA3	1.88	0.54
46:DB:167:PHE:HE1	46:DB:233:MET:HG3	1.72	0.54
45:DE:36:MET:SD	45:DE:37:PRO:HD2	2.47	0.54
45:DI:326:LYS:HZ3	46:DJ:219:THR:HA	1.73	0.54
45:DK:50:ASN:O	45:DK:64:ARG:NH2	2.40	0.54
46:DL:149:THR:HA	46:DL:152:ILE:HD12	1.88	0.54
46:EB:73:MET:HA	46:EB:76:VAL:HG12	1.88	0.54
45:EE:253:THR:HA	45:EE:256:GLN:NE2	2.22	0.54
46:EJ:200:MET:HE1	46:EJ:266:PHE:HD2	1.72	0.54
46:EJ:407:GLU:N	46:EJ:407:GLU:OE2	2.37	0.54
45:FE:55:GLU:HG3	45:FE:57:GLY:H	1.72	0.54
45:FG:387:VAL:HA	45:FG:390:ARG:HG2	1.88	0.54
45:FI:346:TRP:CD1	46:FL:391:ARG:HG3	2.42	0.54
45:FK:74:VAL:O	45:FK:77:GLU:HG2	2.07	0.54
45:FK:77:GLU:HA	45:FK:80:THR:HG22	1.89	0.54
45:GM:135:PHE:HB2	45:GM:166:LYS:HG2	1.89	0.54
46:GN:207:LEU:HB3	46:GN:225:LEU:HD22	1.89	0.54
46:GN:262:ARG:NH1	46:GN:421:GLU:OE1	2.39	0.54
45:HI:204:LEU:HD13	45:HI:231:ILE:HD12	1.89	0.54
46:HN:378:PHE:HB3	46:HN:415:MET:HE1	1.90	0.54
45:IA:27:GLU:HG2	45:IA:361:THR:HG21	1.89	0.54
46:IB:279:GLN:NE2	46:IB:280:GLN:HG2	2.22	0.54
45:IE:8:HIS:HB2	45:IE:67:PHE:HD2	1.71	0.54
45:IE:101:ASN:HA	45:IE:144:GLY:H	1.71	0.54
45:IM:296:PHE:HE2	45:IM:335:ILE:HG13	1.71	0.54
45:JA:7:ILE:HB	45:JA:137:VAL:HG12	1.89	0.54
45:JI:80:THR:O	45:JI:84:ARG:NH2	2.40	0.54
45:JK:133:GLN:HB3	45:JK:252:ILE:HD11	1.89	0.54
46:KF:222:TYR:O	46:KF:226:ASN:ND2	2.40	0.54
46:KH:211:CYS:SG	46:KH:220:PRO:HB3	2.48	0.54
46:KJ:382:ALA:HB2	46:KJ:415:MET:HE3	1.89	0.54
45:KK:263:PRO:HD3	46:KN:396:HIS:CG	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LD:262:ARG:NH2	46:LD:421:GLU:OE1	2.40	0.54
45:MA:118:CYS:O	45:MA:122:ILE:HG12	2.06	0.54
46:MB:316:LEU:HD13	46:MB:352:SER:HB2	1.88	0.54
46:MD:318:ARG:O	46:MD:363:MET:HA	2.07	0.54
45:MK:69:ASP:OD1	45:MK:70:LEU:N	2.39	0.54
46:NB:32:PRO:HA	46:NB:84:LEU:HD21	1.89	0.54
46:NB:48:ASN:O	46:NB:62:ARG:NH2	2.24	0.54
46:NF:318:ARG:HB3	46:NF:357:PRO:HA	1.88	0.54
45:NK:17:GLY:HA2	45:NK:20:CYS:SG	2.47	0.54
45:NM:328:VAL:HG11	45:NM:353:VAL:HG21	1.89	0.54
45:OC:231:ILE:O	45:OC:235:ILE:HG12	2.06	0.54
46:OD:105:HIS:CE1	46:OD:150:LEU:HD12	2.41	0.54
45:OM:206:ASN:OD1	45:OM:207:GLU:N	2.40	0.54
45:PC:263:PRO:HD3	46:PF:396:HIS:CE1	2.41	0.54
46:PD:273:LEU:N	46:PD:292:GLN:HE22	2.03	0.54
45:PE:171:ILE:O	45:PE:171:ILE:HG13	2.06	0.54
46:PH:189:VAL:HA	46:PH:192:LEU:HB2	1.88	0.54
46:PN:52:ASN:OD1	46:PN:62:ARG:NH2	2.40	0.54
46:QB:66:MET:SD	46:QB:116:VAL:HG21	2.46	0.54
46:QD:55:THR:HG23	46:RD:283:ALA:HA	1.88	0.54
45:QE:399:TYR:O	45:QE:402:ARG:NH1	2.40	0.54
46:QF:58:ARG:NH1	46:RF:280:GLN:OE1	2.41	0.54
46:QH:2:ARG:NH1	45:QI:97:GLU:HA	2.19	0.54
45:QI:55:GLU:O	45:RI:285:GLN:NE2	2.32	0.54
45:QK:174:SER:OG	45:QK:207:GLU:OE1	2.24	0.54
46:QN:200:MET:HE2	46:QN:268:ILE:HD13	1.89	0.54
46:RJ:251:ARG:HH21	45:RK:105:ARG:HH12	1.54	0.54
46:RJ:260:PHE:HB2	46:RJ:263:LEU:HD13	1.89	0.54
45:SA:242:LEU:HD11	45:SA:252:ILE:HG13	1.88	0.54
46:SD:190:HIS:CE1	46:SD:414:ASN:HD22	2.25	0.54
46:SF:282:ARG:NH1	46:SF:283:ALA:H	2.05	0.54
45:SK:98:ASP:OD1	45:SK:99:ALA:N	2.39	0.54
46:TB:253:LEU:HA	46:TB:350:LYS:HZ1	1.72	0.54
45:TK:102:ASN:ND2	45:TK:105:ARG:HG3	2.21	0.54
46:TL:375:GLN:O	46:TL:379:LYS:HG2	2.07	0.54
46:TN:289:LEU:HD13	46:TN:365:VAL:HG23	1.88	0.54
46:UB:252:LYS:HA	45:UC:100:ALA:HB1	1.89	0.54
46:UB:324:LYS:O	46:UB:328:GLU:OE1	2.25	0.54
46:UF:67:ASP:O	46:UF:92:PHE:HA	2.06	0.54
45:UG:319:TYR:HB3	45:UG:323:VAL:HG11	1.89	0.54
46:UN:178:THR:HG22	46:UN:180:VAL:H	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VD:86:ARG:NH2	46:VD:89:ASN:OD1	2.40	0.54
46:VH:139:LEU:HD12	46:VH:188:SER:OG	2.07	0.54
45:VI:31:GLN:OE1	45:VI:31:GLN:N	2.40	0.54
45:WA:101:ASN:HB2	46:WB:256:ASN:HD21	1.72	0.54
45:WA:401:LYS:HZ1	46:WB:344:TRP:CD1	2.25	0.54
46:WB:344:TRP:HB3	46:WB:430:ALA:HB2	1.89	0.54
45:WE:111:GLY:O	45:WE:115:VAL:HG13	2.07	0.54
45:WG:337:THR:O	45:WG:339:ARG:NH1	2.40	0.54
45:WI:259:LEU:HD21	45:WI:316:SER:HB3	1.89	0.54
4:0D:125:PHE:CD2	25:1R:486:VAL:HG13	2.42	0.54
11:0S:133:GLU:OE1	11:0S:136:ARG:NH1	2.37	0.54
1:1A:6:TYR:HB2	34:4R:9:VAL:HB	1.88	0.54
17:1F:34:ASP:OD1	17:1F:37:THR:OG1	2.25	0.54
22:1M:138:HIS:O	22:1M:140:GLY:N	2.40	0.54
9:1N:89:ILE:HG23	9:1N:90:TRP:CD1	2.42	0.54
4:2D:92:ASN:OD1	4:2D:93:GLN:N	2.37	0.54
21:2L:282:LYS:HZ2	21:2L:284:ILE:HG21	1.72	0.54
21:2L:340:ARG:NH1	21:2L:343:ASP:OD2	2.40	0.54
21:2L:408:LEU:HD11	46:CN:362:LYS:HE3	1.89	0.54
23:2O:226:GLU:O	23:2O:230:ARG:HG2	2.07	0.54
11:2S:8:GLN:HE21	11:2S:191:LEU:HG	1.71	0.54
27:3C:256:ALA:HB1	27:3C:260:LYS:NZ	2.23	0.54
25:3R:252:LEU:HD21	45:CK:282:TYR:CE1	2.42	0.54
36:5A:22:TYR:CD1	36:5A:61:SER:HA	2.42	0.54
40:6G:206:LYS:NZ	40:6G:207:TYR:O	2.39	0.54
40:6G:241:LYS:HE2	46:VD:335:ASN:C	2.32	0.54
40:6G:284:LYS:O	40:6G:288:LYS:HG2	2.08	0.54
45:AK:328:VAL:O	45:AK:332:ILE:HG12	2.07	0.54
46:BD:290:THR:HA	46:BD:293:MET:HG2	1.90	0.54
46:BH:158:GLU:HG3	46:BH:159:TYR:CD1	2.42	0.54
45:BK:326:LYS:NZ	46:BN:208:TYR:HB3	2.22	0.54
45:BK:328:VAL:O	45:BK:332:ILE:HG12	2.07	0.54
45:BM:226:ASN:HA	45:BM:229:ARG:HD2	1.89	0.54
46:BN:208:TYR:HE2	46:BN:225:LEU:HD11	1.72	0.54
45:CG:8:HIS:CD2	45:CG:138:PHE:HD1	2.24	0.54
45:CI:167:LEU:HD13	45:CI:200:VAL:HB	1.90	0.54
45:CM:212:ILE:HD13	45:CM:215:ARG:HH22	1.72	0.54
45:CM:268:MET:HB3	45:CM:378:ILE:HD11	1.89	0.54
46:DF:58:ARG:NH1	46:EF:280:GLN:OE1	2.40	0.54
45:DI:69:ASP:HB3	45:DI:75:ILE:HD11	1.89	0.54
46:DL:156:ARG:NH1	46:DL:162:ARG:O	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ED:212:PHE:HB3	46:ED:213:ARG:HH21	1.72	0.54
45:EE:319:TYR:CE2	45:EE:328:VAL:HG22	2.42	0.54
46:EF:244:GLY:HA3	46:EF:354:CYS:HA	1.88	0.54
46:EH:3:GLU:HG3	46:EH:62:ARG:NH1	2.22	0.54
46:EH:324:LYS:O	46:EH:328:GLU:HG2	2.08	0.54
45:EM:256:GLN:HE21	46:EN:397:TRP:HZ2	1.55	0.54
46:FJ:273:LEU:H	46:FJ:292:GLN:HE22	1.56	0.54
46:FL:73:MET:HA	46:FL:76:VAL:HG12	1.89	0.54
45:FM:3:GLU:O	45:FM:133:GLN:N	2.34	0.54
46:GN:42:LEU:HA	46:GN:45:GLU:HG3	1.89	0.54
46:HH:417:ASP:O	46:HH:421:GLU:HG3	2.07	0.54
46:ID:73:MET:HG2	46:ID:90:PHE:HD1	1.71	0.54
46:IH:69:GLU:CD	46:IH:71:GLY:H	2.14	0.54
45:JA:269:LEU:HG	45:JA:301:MET:HE2	1.90	0.54
46:JH:5:VAL:HG12	46:JH:62:ARG:HD3	1.88	0.54
46:JL:313:ALA:HB1	46:JL:367:PHE:HE1	1.73	0.54
46:JN:268:ILE:HG22	46:JN:368:VAL:HG22	1.89	0.54
46:KB:102:ALA:HB2	46:KB:403:MET:HE2	1.89	0.54
46:KB:375:GLN:HA	46:KB:378:PHE:HD2	1.72	0.54
46:KF:62:ARG:HB2	46:KF:123:GLU:OE1	2.07	0.54
46:KF:294:PHE:HD2	46:KF:333:VAL:HG21	1.71	0.54
45:KK:265:ILE:HG22	45:KK:432:TYR:HE1	1.72	0.54
46:LF:10:GLY:O	46:LF:14:ASN:ND2	2.39	0.54
46:LN:372:THR:HA	46:LN:422:TYR:HE2	1.71	0.54
45:MA:221:ARG:NH2	46:MB:322:SER:OG	2.39	0.54
45:MG:326:LYS:HZ1	46:MJ:208:TYR:C	2.14	0.54
45:NG:123:ARG:NH2	45:OG:293:ASN:OD1	2.40	0.54
45:NM:72:PRO:HD2	46:NN:2:ARG:NH2	2.21	0.54
45:NM:121:ARG:HH11	45:NM:121:ARG:HA	1.72	0.54
45:OA:352:LYS:HA	46:OD:177:ASP:O	2.07	0.54
45:OC:326:LYS:HE2	46:OF:220:PRO:HB2	1.89	0.54
46:OD:65:LEU:HB3	46:OD:73:MET:HE1	1.88	0.54
46:OD:178:THR:O	46:OD:181:GLU:HG2	2.08	0.54
46:OF:316:LEU:HD13	46:OF:352:SER:HB2	1.87	0.54
45:OK:231:ILE:O	45:OK:235:ILE:HG12	2.07	0.54
46:ON:87:PRO:HG2	46:PN:278:SER:HB3	1.88	0.54
45:PC:251:ASP:H	45:PC:254:GLU:CD	2.15	0.54
45:PE:50:ASN:O	45:PE:64:ARG:NH1	2.29	0.54
46:PF:153:SER:HB3	46:PF:154:LYS:NZ	2.22	0.54
45:PI:328:VAL:O	45:PI:332:ILE:HG12	2.06	0.54
46:PJ:201:VAL:HG13	46:PJ:301:CYS:SG	2.48	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PJ:294:PHE:CD2	46:PJ:333:VAL:HG21	2.42	0.54
46:QF:347:ASN:ND2	45:QG:178:SER:OG	2.26	0.54
46:QH:375:GLN:HB2	46:QH:379:LYS:HZ2	1.72	0.54
45:QK:195:LEU:HD21	45:QK:428:LEU:HD21	1.89	0.54
45:QK:204:LEU:HD23	45:QK:231:ILE:HG12	1.88	0.54
45:QK:349:THR:HG23	46:QL:179:VAL:HA	1.90	0.54
45:RC:408:TYR:HB3	45:RC:413:MET:SD	2.47	0.54
46:RD:178:THR:HB	46:RD:181:GLU:HG3	1.87	0.54
46:RD:358:PRO:HB2	46:RD:361:LEU:HD13	1.88	0.54
45:RE:8:HIS:CD2	45:RE:138:PHE:HD2	2.25	0.54
46:RF:403:MET:HE1	46:RF:408:PHE:CE1	2.42	0.54
46:RL:169:VAL:HG12	46:RL:202:ILE:HG13	1.89	0.54
46:SF:67:ASP:O	46:SF:92:PHE:HA	2.06	0.54
46:SH:58:ARG:HD2	46:TH:280:GLN:HE22	1.72	0.54
45:SK:81:GLY:C	45:SK:84:ARG:HD3	2.31	0.54
46:SL:8:GLN:HE21	46:SL:65:LEU:HG	1.72	0.54
46:SL:9:GLY:HA2	46:SL:66:MET:HB2	1.88	0.54
45:SM:136:LEU:HD23	45:SM:167:LEU:HB2	1.90	0.54
46:UF:113:ILE:HG21	46:UF:150:LEU:HD22	1.88	0.54
46:UF:174:LYS:HB2	46:UF:205:GLU:HG2	1.89	0.54
45:VA:121:ARG:HA	45:VA:124:LYS:HZ2	1.72	0.54
46:VB:86:ARG:HH11	46:VB:88:ASP:HB3	1.71	0.54
45:VE:210:TYR:CD1	46:VF:324:LYS:HE3	2.42	0.54
45:VE:222:PRO:HG2	46:VF:324:LYS:HG2	1.88	0.54
46:VF:67:ASP:O	46:VF:92:PHE:HA	2.07	0.54
45:VG:21:TRP:CZ2	45:VG:65:ALA:HB2	2.42	0.54
45:VI:2:ARG:HH22	46:VL:70:PRO:HD2	1.72	0.54
45:VK:104:ALA:HB2	45:VK:413:MET:HG2	1.90	0.54
46:WH:19:LYS:HE2	46:WH:227:HIS:ND1	2.22	0.54
46:WJ:31:ASP:OD2	46:WJ:33:THR:OG1	2.24	0.54
45:WM:105:ARG:HA	45:WM:109:THR:HB	1.88	0.54
45:DC:244:PHE:HB2	45:DC:356:ASN:HD21	1.72	0.54
45:DC:258:ASN:ND2	45:DC:352:LYS:HE3	2.20	0.54
2:0B:203:THR:O	45:KI:373:ARG:NH2	2.33	0.54
3:0C:38:PRO:HD2	45:DI:89:PRO:HB3	1.89	0.54
10:0Q:65:PRO:HA	10:0Q:153:ARG:HH22	1.71	0.54
8:1H:60:ARG:NH1	46:HN:32:PRO:HB2	2.20	0.54
9:1N:61:SER:N	9:1N:73:THR:OG1	2.40	0.54
10:1Q:15:TYR:CD1	10:1Q:164:ARG:NE	2.75	0.54
12:1T:38:LYS:HE2	12:1T:42:HIS:NE2	2.22	0.54
12:1T:77:ASP:OD1	12:1T:78:THR:N	2.32	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:2U:376:SER:HB2	13:2U:397:LEU:HD12	1.89	0.54
13:2U:516:TYR:C	13:2U:517:TRP:HD1	2.15	0.54
15:2X:70:TYR:CE1	46:MJ:362:LYS:HG2	2.42	0.54
1:3A:125:LEU:N	46:AN:276:ARG:HH12	2.05	0.54
16:3B:111:ARG:HH22	16:3B:116:LEU:HA	1.72	0.54
27:3C:220:LYS:HG3	27:3C:263:ILE:HD11	1.88	0.54
13:3U:325:ASP:OD1	13:3U:325:ASP:N	2.35	0.54
33:4F:69:LYS:HD2	33:4F:70:VAL:HG13	1.89	0.54
34:5R:261:LEU:HD11	34:5R:271:LEU:HD12	1.88	0.54
10:6Q:75:PHE:HD1	10:6Q:133:GLN:HE21	1.54	0.54
46:AB:272:PRO:HG3	46:AB:284:LEU:HD11	1.89	0.54
45:AC:184:PRO:O	45:AC:188:ILE:HG12	2.08	0.54
46:BJ:203:ASP:OD2	46:BJ:377:MET:HE1	2.07	0.54
46:CB:324:LYS:NZ	45:CC:220:GLU:O	2.38	0.54
46:CF:3:GLU:HG3	46:CF:49:VAL:HA	1.89	0.54
46:CL:130:LEU:HD11	46:CL:133:PHE:HE2	1.72	0.54
46:DD:289:LEU:HD13	46:DD:365:VAL:HG23	1.89	0.54
46:DF:174:LYS:HB2	46:DF:205:GLU:OE2	2.07	0.54
46:DH:326:VAL:HG21	46:DH:353:ILE:HD11	1.89	0.54
45:DI:71:GLU:HB3	45:DI:98:ASP:HB3	1.89	0.54
45:DM:262:TYR:CD1	45:DM:263:PRO:HD2	2.42	0.54
45:EA:254:GLU:HG2	46:EB:98:GLY:HA2	1.88	0.54
46:ED:221:THR:HG23	46:ED:224:ASP:H	1.72	0.54
46:EF:344:TRP:HB3	46:EF:430:ALA:HB2	1.89	0.54
46:EN:226:ASN:HD21	49:EN:501:GDP:HN1	1.55	0.54
46:FB:60:VAL:HG21	46:FB:86:ARG:HG2	1.88	0.54
45:FC:55:GLU:HG3	45:FC:57:GLY:H	1.73	0.54
46:FD:133:PHE:HB2	46:FD:164:MET:SD	2.48	0.54
46:FH:394:PHE:HA	46:FH:397:TRP:CZ3	2.42	0.54
45:FI:181:VAL:HG22	46:FJ:256:ASN:OD1	2.07	0.54
46:FN:134:GLN:HE22	46:FN:136:THR:HG22	1.71	0.54
45:GE:69:ASP:OD1	45:GE:70:LEU:N	2.41	0.54
45:GG:242:LEU:HD11	45:GG:252:ILE:HG12	1.89	0.54
45:GI:96:LYS:NZ	46:GJ:1:MET:SD	2.75	0.54
46:GJ:204:ASN:O	46:GJ:208:TYR:HD2	1.89	0.54
46:HB:178:THR:HB	46:HB:181:GLU:HG3	1.89	0.54
46:HD:299:MET:HA	46:HD:299:MET:HE3	1.88	0.54
45:HE:352:LYS:HZ1	46:HH:178:THR:HA	1.72	0.54
46:HH:67:ASP:O	46:HH:92:PHE:HA	2.07	0.54
45:II:119:LEU:HD11	45:II:156:ARG:HB3	1.89	0.54
45:II:407:TRP:CZ3	46:IJ:255:VAL:HA	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IK:187:SER:O	45:IK:191:THR:HG23	2.07	0.54
45:JC:331:SER:O	45:JC:335:ILE:HG12	2.06	0.54
46:JD:20:PHE:HA	46:JD:230:SER:OG	2.08	0.54
45:JM:210:TYR:CE1	46:JN:324:LYS:HB3	2.43	0.54
45:KA:313:MET:HE3	45:KA:382:THR:HG23	1.89	0.54
45:KK:141:VAL:HG21	45:KK:172:TYR:HE1	1.72	0.54
46:KL:68:LEU:HD23	46:KL:143:THR:OG1	2.07	0.54
46:KN:10:GLY:O	46:KN:14:ASN:ND2	2.41	0.54
46:LB:67:ASP:O	46:LB:92:PHE:HA	2.06	0.54
46:LF:86:ARG:HD2	46:MF:281:TYR:HD1	1.72	0.54
46:LF:299:MET:HA	46:LF:299:MET:HE3	1.90	0.54
46:LF:330:MET:HE2	46:LF:349:ILE:HG21	1.90	0.54
45:LG:398:MET:HG2	46:LH:345:ILE:HG22	1.90	0.54
46:LN:211:CYS:SG	46:LN:220:PRO:HB3	2.48	0.54
46:MB:67:ASP:O	46:MB:92:PHE:HA	2.07	0.54
46:MH:99:ASN:HA	46:MH:142:GLY:H	1.72	0.54
46:MH:376:GLU:HA	46:MH:379:LYS:HD3	1.88	0.54
45:MI:208:ALA:O	45:MI:212:ILE:HG12	2.07	0.54
45:MK:118:CYS:O	45:MK:122:ILE:HG12	2.07	0.54
45:NC:98:ASP:OD1	45:NC:99:ALA:N	2.41	0.54
46:ND:183:TYR:HE1	46:ND:388:MET:HB3	1.71	0.54
45:NM:322:ASP:OD1	45:NM:373:ARG:NH1	2.40	0.54
45:OA:136:LEU:HD13	45:OA:167:LEU:HB2	1.88	0.54
45:OI:205:ASP:OD1	45:OI:303:ALA:HA	2.08	0.54
45:OI:224:TYR:HB2	46:OJ:245:GLN:NE2	2.21	0.54
46:OJ:68:LEU:HB3	46:OJ:96:GLY:HA2	1.89	0.54
46:OL:299:MET:HA	46:OL:299:MET:HE2	1.89	0.54
45:PA:387:VAL:HA	45:PA:390:ARG:HG2	1.87	0.54
46:PB:226:ASN:HD21	49:PB:501:GDP:HN1	1.55	0.54
45:PC:231:ILE:O	45:PC:235:ILE:HG12	2.07	0.54
45:PE:210:TYR:CD1	46:PF:324:LYS:HG3	2.42	0.54
45:PE:398:MET:HE3	46:PF:346:PRO:HD2	1.90	0.54
46:PF:133:PHE:HB2	46:PF:164:MET:HE1	1.89	0.54
45:PI:140:SER:OG	47:PI:501:GTP:O2B	2.25	0.54
46:PL:344:TRP:CE3	46:PL:345:ILE:HG23	2.42	0.54
46:PN:109:GLY:HA2	46:PN:112:LEU:HG	1.90	0.54
45:QC:76:ASP:HA	45:QC:79:ARG:HG2	1.90	0.54
45:QG:171:ILE:O	45:QG:171:ILE:HG13	2.06	0.54
46:QL:73:MET:HA	46:QL:76:VAL:HG12	1.90	0.54
46:RB:149:THR:HA	46:RB:152:ILE:HD12	1.89	0.54
46:RB:295:ASP:O	46:RB:299:MET:HE3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RC:74:VAL:O	45:RC:78:VAL:HG23	2.07	0.54
45:RE:76:ASP:HA	45:RE:79:ARG:HG2	1.89	0.54
46:RJ:166:THR:HG1	46:RJ:199:CYS:HG	1.49	0.54
45:RK:185:TYR:CZ	45:RK:398:MET:HE2	2.42	0.54
45:SE:85:GLN:CD	45:SE:85:GLN:H	2.14	0.54
46:SH:52:ASN:OD1	46:SH:62:ARG:NH2	2.40	0.54
45:SK:72:PRO:HA	45:SK:75:ILE:HG22	1.89	0.54
46:SL:175:VAL:HG22	46:SL:205:GLU:HB3	1.89	0.54
45:TC:229:ARG:HH11	45:TC:366:GLY:HA2	1.72	0.54
46:TF:222:TYR:O	46:TF:226:ASN:ND2	2.29	0.54
45:TG:223:THR:HG23	45:TG:225:THR:H	1.72	0.54
45:TI:390:ARG:HG3	45:TI:391:LEU:HD12	1.90	0.54
46:TJ:286:VAL:HG23	46:TJ:287:PRO:HD3	1.90	0.54
45:TM:107:HIS:ND1	45:TM:107:HIS:O	2.41	0.54
46:UB:309:ARG:N	46:UB:426:GLN:HE22	2.05	0.54
46:UB:321:MET:HE3	45:UC:221:ARG:NE	2.22	0.54
46:UD:182:PRO:HD2	46:UD:388:MET:HE1	1.88	0.54
46:UD:290:THR:HA	46:UD:293:MET:HG3	1.89	0.54
45:UI:209:ILE:HD13	45:UI:302:MET:HE1	1.88	0.54
46:UL:248:SER:HA	46:UL:252:LYS:HD2	1.88	0.54
45:VC:101:ASN:HA	45:VC:144:GLY:H	1.71	0.54
46:VF:68:LEU:HB3	46:VF:96:GLY:HA2	1.89	0.54
46:VF:268:ILE:HG22	46:VF:368:VAL:HG22	1.89	0.54
46:VH:150:LEU:O	46:VH:154:LYS:HG2	2.06	0.54
45:WC:167:LEU:HD13	45:WC:200:VAL:HB	1.90	0.54
45:WK:8:HIS:HB2	45:WK:67:PHE:HD2	1.70	0.54
45:WM:402:ARG:HD2	45:WM:405:VAL:HB	1.89	0.54
4:0D:126:TRP:CE2	4:0D:130:LEU:HD11	2.42	0.54
6:0F:89:LEU:HD23	6:0F:90:ARG:HH11	1.72	0.54
7:0G:51:LEU:HD11	16:2B:241:ILE:HG13	1.90	0.54
9:0N:239:SER:OG	9:0N:241:GLN:NE2	2.41	0.54
11:0S:175:PHE:HE2	11:0S:211:LEU:HD13	1.72	0.54
13:0U:546:GLU:HG2	13:0U:547:HIS:CE1	2.42	0.54
15:0X:60:GLU:O	15:0X:63:GLU:HG3	2.07	0.54
16:1B:346:PHE:CE2	16:1B:348:ASN:HB2	2.42	0.54
8:1H:284:ARG:HD2	8:1H:285:ARG:HH11	1.72	0.54
18:1I:204:GLN:NE2	15:4X:141:PHE:O	2.34	0.54
19:1J:157:PRO:O	19:1J:158:GLN:HG2	2.08	0.54
21:1L:285:ARG:HH12	46:BH:284:LEU:HB2	1.71	0.54
21:1L:632:LYS:O	21:1L:636:ARG:HG2	2.08	0.54
21:1L:642:THR:O	21:1L:644:ILE:HG12	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:1Q:37:ILE:HG13	35:4S:208:GLN:NE2	2.23	0.54
25:1R:458:ILE:HG12	46:FD:276:ARG:HH22	1.71	0.54
25:1R:471:ASN:HD21	25:1R:473:GLN:HB2	1.72	0.54
13:1U:423:GLY:HA3	13:1U:452:VAL:HG11	1.90	0.54
4:2D:56:LYS:O	4:2D:57:THR:OG1	2.20	0.54
21:2L:577:ASN:O	21:2L:580:ARG:NH1	2.40	0.54
24:2P:414:ASN:HB3	46:TL:280:GLN:HE21	1.73	0.54
11:2S:32:LYS:O	11:2S:34:ILE:HG23	2.08	0.54
11:2S:150:GLN:HE22	45:WG:164:LYS:H	1.55	0.54
13:2U:350:ARG:O	13:2U:352:ARG:NH1	2.40	0.54
16:3B:217:LYS:HD2	16:3B:220:GLN:NE2	2.22	0.54
5:3E:92:LEU:HB2	5:3E:96:ARG:HD3	1.89	0.54
30:4H:199:GLU:C	30:4H:201:ASN:H	2.15	0.54
34:4R:219:LYS:NZ	46:BH:75:SER:O	2.36	0.54
36:5A:130:ASP:OD1	36:5A:131:ARG:N	2.41	0.54
37:5F:9:TYR:HD2	37:5F:15:THR:HG21	1.73	0.54
35:5S:107:GLU:CD	35:5S:110:ARG:HH22	2.15	0.54
10:6Q:26:ASP:HB2	10:6Q:63:ALA:HA	1.88	0.54
46:AB:39:ASP:OD1	46:AB:40:SER:N	2.40	0.54
46:AL:404:ASP:OD1	46:AL:406:MET:HG2	2.08	0.54
46:BD:152:ILE:HG23	46:BD:164:MET:HE2	1.88	0.54
45:BG:222:PRO:HD2	46:BH:324:LYS:HG3	1.89	0.54
46:CF:182:PRO:HB2	46:CF:388:MET:HE2	1.90	0.54
46:CN:387:ALA:HA	46:CN:390:ARG:HE	1.72	0.54
46:DB:258:ILE:HG13	46:DB:266:PHE:CZ	2.43	0.54
45:DK:79:ARG:O	45:DK:84:ARG:NE	2.40	0.54
45:EE:320:ARG:HH21	45:EE:360:PRO:HA	1.71	0.54
46:EF:67:ASP:O	46:EF:92:PHE:HA	2.07	0.54
46:FB:330:MET:HE2	46:FB:349:ILE:HG13	1.89	0.54
45:FC:346:TRP:H	45:FC:346:TRP:CD1	2.25	0.54
45:FG:208:ALA:O	45:FG:212:ILE:HG12	2.08	0.54
46:FN:73:MET:HA	46:FN:76:VAL:HG22	1.89	0.54
46:GF:67:ASP:OD2	46:GF:68:LEU:N	2.40	0.54
46:GF:235:GLY:HA3	46:GF:366:THR:HG21	1.89	0.54
45:HG:296:PHE:CE2	45:HG:335:ILE:HG21	2.42	0.54
46:HL:148:GLY:O	46:HL:152:ILE:HG12	2.06	0.54
46:HN:286:VAL:C	46:HN:329:GLN:HE22	2.15	0.54
46:IB:207:LEU:HB3	46:IB:225:LEU:HD22	1.89	0.54
46:ID:196:ALA:HB3	46:ID:264:HIS:CE1	2.42	0.54
46:IH:100:ASN:HD22	46:IH:103:LYS:HB2	1.72	0.54
45:II:75:ILE:HG23	45:II:92:LEU:HD23	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IM:268:MET:HB2	45:IM:379:SER:O	2.08	0.54
47:IM:501:GTP:O1G	46:IN:252:LYS:NZ	2.37	0.54
46:KF:267:MET:HG3	46:KF:301:CYS:SG	2.48	0.54
45:KI:33:ASP:OD1	45:KI:34:GLY:N	2.39	0.54
46:LB:6:HIS:O	46:LB:63:ALA:HA	2.07	0.54
46:LD:153:SER:O	46:LD:157:GLU:HG2	2.08	0.54
45:LG:349:THR:OG1	46:LJ:176:SER:OG	2.20	0.54
45:LK:88:HIS:CE1	45:LK:90:GLU:HG2	2.43	0.54
45:LK:371:VAL:HG22	45:LK:373:ARG:H	1.71	0.54
45:LM:387:VAL:HG12	45:LM:390:ARG:HH21	1.72	0.54
46:MD:394:PHE:HA	46:MD:397:TRP:CZ3	2.43	0.54
45:NC:10:GLY:O	45:NC:14:ILE:HG12	2.07	0.54
45:NC:205:ASP:N	45:NC:205:ASP:OD1	2.38	0.54
46:NF:207:LEU:HB3	46:NF:225:LEU:HD22	1.89	0.54
45:NG:219:ILE:HG13	45:NG:221:ARG:H	1.71	0.54
45:NK:32:PRO:HB3	45:NK:83:TYR:CE1	2.42	0.54
46:NL:248:SER:HA	46:NL:252:LYS:HD3	1.89	0.54
45:NM:91:GLN:HE21	45:NM:121:ARG:NH2	2.05	0.54
45:OC:336:LYS:O	45:OC:339:ARG:NH2	2.40	0.54
45:OC:399:TYR:OH	45:OC:415:GLU:OE2	2.25	0.54
45:OI:121:ARG:HA	45:OI:124:LYS:HZ3	1.72	0.54
45:OI:387:VAL:HA	45:OI:390:ARG:HG2	1.88	0.54
45:PA:188:ILE:HA	45:PA:191:THR:HG22	1.87	0.54
46:PH:293:MET:HG2	46:PH:365:VAL:HG11	1.88	0.54
45:PI:154:LEU:HD23	45:PI:194:LEU:HG	1.90	0.54
46:PN:150:LEU:HG	46:PN:154:LYS:NZ	2.22	0.54
46:QB:2:ARG:NH2	45:QC:97:GLU:HB2	2.21	0.54
45:QC:133:GLN:HB3	45:QC:252:ILE:HD13	1.90	0.54
45:QE:64:ARG:NH1	45:QE:129:CYS:SG	2.81	0.54
45:QG:288:VAL:HG11	45:QG:327:ASP:HB3	1.88	0.54
46:QL:257:LEU:HD23	46:QL:266:PHE:HE2	1.71	0.54
46:QL:274:THR:HB	46:QL:282:ARG:HH11	1.72	0.54
45:RC:175:PRO:HB3	45:RC:390:ARG:HD2	1.90	0.54
46:RF:99:ASN:HA	46:RF:142:GLY:H	1.71	0.54
45:RI:242:LEU:HD11	45:RI:252:ILE:HG12	1.88	0.54
45:RI:329:ASN:HA	45:RI:332:ILE:HG12	1.90	0.54
45:RK:15:GLN:NE2	47:RK:501:GTP:O6	2.40	0.54
45:RM:135:PHE:HB2	45:RM:166:LYS:HG2	1.90	0.54
45:RM:167:LEU:HG	45:RM:200:VAL:HB	1.89	0.54
46:SD:388:MET:HE3	46:SD:393:ALA:HB3	1.90	0.54
46:SF:266:PHE:CE1	46:SF:370:ASN:HB2	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SH:289:LEU:HD13	46:SH:365:VAL:HG23	1.90	0.54
46:SJ:64:ILE:HG13	46:SJ:120:VAL:HG12	1.89	0.54
45:SK:35:GLN:HE22	45:SK:59:GLY:HA3	1.72	0.54
46:TD:12:CYS:O	46:TD:16:ILE:HG12	2.07	0.54
46:TL:103:LYS:HG2	46:TL:107:THR:OG1	2.07	0.54
46:UB:325:GLU:HB2	45:UC:221:ARG:NH1	2.23	0.54
46:UH:173:PRO:HD3	46:UH:380:ARG:NH1	2.23	0.54
45:VA:107:HIS:HA	45:VA:152:LEU:HD11	1.88	0.54
45:VC:145:THR:OG1	47:VC:501:GTP:O1B	2.26	0.54
46:VL:48:ASN:O	46:VL:62:ARG:NH1	2.39	0.54
46:VL:318:ARG:HB2	46:VL:364:ALA:HB3	1.89	0.54
46:WB:148:GLY:O	46:WB:152:ILE:HG12	2.07	0.54
45:WG:419:SER:O	45:WG:423:GLU:HG3	2.07	0.54
46:WH:267:MET:HE3	46:WH:299:MET:HE3	1.90	0.54
46:WL:130:LEU:HD23	46:WL:162:ARG:HG3	1.90	0.54
45:CE:328:VAL:O	45:CE:332:ILE:HG12	2.08	0.54
1:0A:138:TRP:HZ3	45:AA:81:GLY:HA2	1.73	0.54
6:0F:202:ASN:OD1	6:0F:203:MET:N	2.40	0.54
13:0U:431:VAL:H	13:0U:443:ALA:HB2	1.73	0.54
13:0U:446:LYS:HG2	13:0U:476:TRP:CZ3	2.42	0.54
3:1C:47:ILE:HG23	3:1C:48:ARG:HD2	1.89	0.54
5:1E:19:ARG:HH21	5:1E:23:THR:HG23	1.72	0.54
21:1L:901:LYS:H	46:CB:320:ARG:NH2	2.06	0.54
25:1R:46:TYR:H	25:1R:95:MET:HE2	1.73	0.54
14:1V:250:GLN:HA	14:1V:253:LYS:NZ	2.18	0.54
4:2D:132:HIS:O	4:2D:135:LYS:HG3	2.08	0.54
31:2I:83:ARG:HH12	45:GE:299:ALA:HA	1.73	0.54
25:2R:104:ALA:HB2	25:2R:187:ILE:HG22	1.90	0.54
11:2S:175:PHE:HA	11:2S:178:LEU:HD23	1.90	0.54
14:2V:186:HIS:HA	14:2V:189:GLU:HG2	1.90	0.54
14:2V:233:ASP:O	14:2V:238:LYS:NZ	2.41	0.54
26:2W:260:ILE:HA	26:2W:263:PHE:CD1	2.42	0.54
5:3E:29:ARG:NH1	5:3E:148:GLN:O	2.41	0.54
21:3L:27:VAL:O	21:3L:29:THR:N	2.38	0.54
25:3R:7:LYS:NZ	46:MN:22:GLU:OE1	2.38	0.54
13:3U:143:ALA:HB2	13:3U:182:VAL:HG21	1.88	0.54
13:3U:412:SER:OG	13:3U:455:ILE:O	2.25	0.54
34:4R:80:ARG:NE	45:ME:33:ASP:OD2	2.26	0.54
40:6G:253:HIS:HD2	46:VD:307:HIS:NE2	2.05	0.54
34:6R:570:VAL:HG12	34:6R:585:ILE:HD13	1.89	0.54
45:AC:118:CYS:O	45:AC:122:ILE:HG12	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BC:71:GLU:HB3	46:BD:2:ARG:HH22	1.73	0.54
45:BI:147:SER:HB2	45:BI:190:SER:OG	2.08	0.54
46:BJ:207:LEU:HA	46:BJ:210:ILE:HD12	1.89	0.54
46:BJ:248:SER:HA	46:BJ:252:LYS:HG3	1.88	0.54
45:CA:37:PRO:HB2	45:CA:40:LYS:HB2	1.89	0.54
46:CB:350:LYS:HZ3	45:CC:181:VAL:N	2.06	0.54
46:CF:67:ASP:HB3	46:CF:73:MET:HE1	1.89	0.54
46:CF:324:LYS:HG3	45:CG:222:PRO:HD2	1.89	0.54
46:DD:238:CYS:SG	46:DD:239:CYS:N	2.81	0.54
46:DH:257:LEU:HD11	46:DH:314:SER:HB2	1.89	0.54
46:DJ:252:LYS:HE2	45:DK:100:ALA:HA	1.89	0.54
46:DL:27:GLU:O	46:DL:43:GLN:NE2	2.40	0.54
46:EB:268:ILE:HG22	46:EB:368:VAL:HG22	1.88	0.54
45:EC:230:LEU:HD13	45:EC:233:GLN:HE22	1.72	0.54
45:EE:69:ASP:OD2	45:EE:70:LEU:N	2.40	0.54
45:EG:276:ILE:HD11	45:EG:280:LYS:HG2	1.89	0.54
45:EK:319:TYR:HE2	45:EK:328:VAL:HG13	1.72	0.54
46:EL:107:THR:OG1	46:EL:108:GLU:OE1	2.24	0.54
46:EL:317:PHE:HE1	46:EL:326:VAL:HG13	1.72	0.54
46:EN:22:GLU:HA	46:EN:81:PHE:HD2	1.73	0.54
45:FA:336:LYS:HD3	45:FA:351:PHE:CE1	2.42	0.54
46:FF:334:GLN:HA	46:FF:341:PHE:HE1	1.72	0.54
45:FG:288:VAL:HA	45:FG:291:ILE:HG22	1.90	0.54
45:FI:104:ALA:HB2	45:FI:413:MET:HE2	1.88	0.54
46:FJ:22:GLU:HG2	46:FJ:81:PHE:CD2	2.43	0.54
45:FK:205:ASP:CG	45:FK:304:LYS:H	2.15	0.54
46:GB:223:GLY:O	46:GB:227:HIS:ND1	2.40	0.54
45:GM:76:ASP:OD1	45:GM:79:ARG:NH2	2.40	0.54
46:HH:309:ARG:HE	46:HH:342:VAL:HA	1.73	0.54
46:HJ:73:MET:HE1	46:HJ:92:PHE:CG	2.42	0.54
45:HK:88:HIS:ND1	45:IK:284:GLU:OE1	2.40	0.54
45:IE:69:ASP:OD1	45:IE:70:LEU:N	2.41	0.54
46:IJ:107:THR:HG1	46:IJ:108:GLU:CD	2.14	0.54
45:JE:46:ASP:OD1	45:JE:48:ALA:N	2.35	0.54
45:JG:36:MET:SD	45:JG:37:PRO:HD2	2.46	0.54
45:JK:377:MET:HE3	45:JK:378:ILE:N	2.23	0.54
45:KA:75:ILE:O	45:KA:79:ARG:HG3	2.07	0.54
45:KA:326:LYS:HE3	46:KD:208:TYR:CD1	2.43	0.54
46:KF:156:ARG:HH21	46:KF:164:MET:HE2	1.73	0.54
46:KJ:69:GLU:HG2	46:KJ:96:GLY:HA2	1.90	0.54
46:KL:121:ARG:NH2	46:KL:158:GLU:OE1	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LI:203:MET:O	45:LI:302:MET:HE1	2.07	0.54
46:MN:398:TYR:HD2	46:MN:408:PHE:HZ	1.54	0.54
46:ND:12:CYS:O	46:ND:16:ILE:HG12	2.07	0.54
46:NL:235:GLY:HA3	46:NL:366:THR:HG21	1.89	0.54
45:NM:175:PRO:O	45:NM:390:ARG:NH2	2.41	0.54
46:OB:251:ARG:NH1	46:OB:255:VAL:HG21	2.22	0.54
46:OB:371:SER:O	46:OB:422:TYR:OH	2.21	0.54
45:OE:287:SER:O	45:OE:291:ILE:HG12	2.07	0.54
45:OM:71:GLU:OE2	46:ON:2:ARG:NH1	2.41	0.54
46:ON:32:PRO:O	46:ON:83:GLN:NE2	2.40	0.54
45:PC:51:THR:HG21	45:PC:243:ARG:HB3	1.88	0.54
46:PD:2:ARG:HD2	46:PD:131:GLN:NE2	2.22	0.54
45:PI:90:GLU:HG3	45:QI:280:LYS:HZ2	1.71	0.54
45:QG:265:ILE:HD11	45:QG:435:VAL:HG21	1.88	0.54
45:QG:333:ALA:O	45:QG:337:THR:HG23	2.07	0.54
46:QJ:63:ALA:O	46:QJ:89:ASN:ND2	2.41	0.54
46:QL:222:TYR:O	46:QL:226:ASN:ND2	2.26	0.54
45:RA:53:PHE:HB3	45:RA:61:HIS:HB3	1.89	0.54
45:RA:318:MET:HA	45:RA:318:MET:HE3	1.88	0.54
45:RC:288:VAL:HG11	45:RC:327:ASP:HB3	1.87	0.54
46:RD:268:ILE:HG22	46:RD:368:VAL:HG22	1.89	0.54
45:RK:205:ASP:OD2	45:RK:205:ASP:N	2.38	0.54
46:RL:379:LYS:HE3	46:RL:419:VAL:HG11	1.87	0.54
45:SC:66:VAL:HG11	45:SC:122:ILE:HD11	1.90	0.54
45:SC:171:ILE:HA	45:SC:204:LEU:HB2	1.89	0.54
45:SE:259:LEU:HB3	45:SE:268:MET:HE1	1.88	0.54
45:SK:171:ILE:HA	45:SK:204:LEU:HB2	1.88	0.54
45:TA:203:MET:HE3	45:TA:384:ILE:HG12	1.90	0.54
45:TC:99:ALA:O	45:TC:105:ARG:NH2	2.39	0.54
46:TH:293:MET:HE2	46:TH:367:PHE:HB3	1.88	0.54
45:TM:269:LEU:HD12	45:TM:301:MET:HE2	1.89	0.54
46:UF:172:SER:OG	46:UF:205:GLU:OE1	2.24	0.54
46:UH:240:LEU:HD21	46:UH:249:ASP:HA	1.88	0.54
45:UK:3:GLU:HG2	45:UK:132:LEU:HA	1.90	0.54
45:UM:71:GLU:OE1	45:UM:73:THR:HG22	2.07	0.54
45:UM:269:LEU:HD23	45:UM:303:ALA:HB3	1.89	0.54
46:VD:309:ARG:NH1	46:VD:343:GLU:OE1	2.41	0.54
45:VG:75:ILE:HA	45:VG:78:VAL:HG12	1.90	0.54
45:VI:332:ILE:HD11	45:VI:351:PHE:CD1	2.43	0.54
46:WF:22:GLU:HG2	46:WF:81:PHE:HB2	1.89	0.54
1:0A:3:GLN:HB3	26:1W:241:MET:SD	2.47	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0B:258:ASN:OD1	2:0B:279:ASN:ND2	2.32	0.54
6:0F:184:LYS:HD2	6:0F:216:ASN:CG	2.33	0.54
13:0U:229:ARG:NH2	13:0U:267:GLN:O	2.41	0.54
3:1C:43:TYR:CE2	3:1C:45:PRO:HA	2.42	0.54
3:1C:75:LEU:HB2	3:1C:80:ARG:HH21	1.72	0.54
8:1H:115:ARG:HH21	46:HL:279:GLN:HG2	1.72	0.54
19:1J:142:VAL:HG12	45:IE:373:ARG:HH22	1.73	0.54
19:1J:237:ARG:NH2	29:2G:96:LYS:HG3	2.23	0.54
20:1K:77:ASN:O	20:1K:80:ARG:HB2	2.07	0.54
22:1M:65:ASN:OD1	22:1M:66:VAL:N	2.41	0.54
21:2L:593:THR:HG21	25:3R:117:ALA:HB1	1.88	0.54
21:2L:636:ARG:NH1	21:2L:637:GLN:OE1	2.40	0.54
22:2M:124:THR:OG1	22:2M:227:LYS:O	2.26	0.54
23:2O:455:GLN:O	23:2O:459:GLN:HG2	2.08	0.54
24:2P:478:TRP:CD1	24:2P:481:ARG:HE	2.26	0.54
25:2R:11:PHE:HA	15:2X:81:ARG:NH1	2.23	0.54
16:3B:97:ARG:NH1	16:3B:174:ASN:OD1	2.41	0.54
12:3T:127:GLU:HB3	45:AK:337:THR:HG22	1.89	0.54
12:3T:236:THR:HG23	12:3T:239:SER:H	1.72	0.54
13:3U:198:CYS:SG	13:3U:199:VAL:N	2.81	0.54
34:4R:80:ARG:NH1	45:ME:37:PRO:O	2.35	0.54
37:5G:26:GLY:HA2	45:OG:221:ARG:NH2	2.23	0.54
10:5Q:34:ILE:HG13	10:5Q:49:ILE:HG22	1.90	0.54
34:5R:422:TYR:HB2	34:5R:448:CYS:SG	2.48	0.54
35:5S:81:HIS:CE1	45:WE:164:LYS:HB2	2.42	0.54
40:6G:152:GLU:HA	40:6G:155:LYS:HG3	1.88	0.54
45:AI:118:CYS:O	45:AI:122:ILE:HG12	2.06	0.54
46:AL:178:THR:HB	46:AL:181:GLU:HG3	1.89	0.54
45:BG:105:ARG:NH2	46:BH:251:ARG:HH22	2.06	0.54
45:BK:213:CYS:SG	45:BK:222:PRO:HG3	2.48	0.54
45:BM:224:TYR:HD1	47:BM:501:GTP:C6	2.26	0.54
46:CF:11:GLN:HA	46:CF:14:ASN:HD22	1.72	0.54
45:CK:340:THR:HG23	45:CK:341:ILE:HG13	1.88	0.54
45:CM:271:SER:OG	45:CM:301:MET:SD	2.65	0.54
46:CN:25:SER:HG	46:CN:51:TYR:HH	1.54	0.54
46:DD:292:GLN:HG2	46:DD:298:ASN:ND2	2.17	0.54
46:DF:238:CYS:SG	46:DF:239:CYS:N	2.80	0.54
45:DI:20:CYS:HA	45:DI:232:ALA:HB1	1.89	0.54
45:DI:67:PHE:HB2	45:DI:92:LEU:HD13	1.88	0.54
45:DM:203:MET:HE3	45:DM:203:MET:HA	1.89	0.54
45:DM:239:THR:HG23	45:DM:243:ARG:HH21	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EI:69:ASP:OD1	45:EI:70:LEU:N	2.41	0.54
45:FA:171:ILE:O	45:FA:171:ILE:HG13	2.08	0.54
45:FA:262:TYR:OH	46:FD:391:ARG:O	2.24	0.54
46:FB:299:MET:HG3	46:FB:301:CYS:H	1.72	0.54
46:FN:289:LEU:O	46:FN:293:MET:HG3	2.06	0.54
46:GH:3:GLU:OE1	46:GH:3:GLU:N	2.38	0.54
46:HB:116:VAL:HA	46:HB:119:VAL:HG22	1.90	0.54
46:HF:66:MET:HE1	46:HF:147:MET:HG2	1.88	0.54
45:HK:221:ARG:NH2	46:HL:322:SER:O	2.40	0.54
46:HN:249:ASP:OD2	46:HN:252:LYS:HG3	2.08	0.54
46:HN:273:LEU:N	46:HN:292:GLN:HE22	2.05	0.54
45:IG:207:GLU:HA	45:IG:210:TYR:HD2	1.73	0.54
45:IK:206:ASN:OD1	47:IK:501:GTP:N2	2.40	0.54
45:IK:279:GLU:O	45:IK:282:TYR:HB2	2.08	0.54
46:JB:268:ILE:N	46:JB:299:MET:HE1	2.23	0.54
45:JE:17:GLY:HA2	45:JE:20:CYS:SG	2.47	0.54
45:JI:88:HIS:CE1	45:JI:90:GLU:HG3	2.43	0.54
45:KA:392:ASP:OD2	45:KA:422:ARG:NH1	2.41	0.54
46:LB:266:PHE:CE1	46:LB:370:ASN:HB2	2.42	0.54
45:LG:98:ASP:O	45:LG:105:ARG:NH1	2.41	0.54
46:LH:62:ARG:NH1	46:LH:127:CYS:SG	2.81	0.54
46:LL:396:HIS:HA	46:LL:399:THR:HG22	1.90	0.54
46:MB:372:THR:HA	46:MB:422:TYR:HE2	1.72	0.54
45:MC:88:HIS:CE1	45:MC:90:GLU:HG2	2.43	0.54
45:MI:68:LEU:HD13	45:MI:93:ILE:HB	1.90	0.54
45:MK:242:LEU:HD11	45:MK:252:ILE:HG12	1.90	0.54
46:NB:190:HIS:CD2	46:NB:411:ALA:HA	2.43	0.54
45:NG:332:ILE:HG22	45:NG:336:LYS:HZ2	1.73	0.54
46:NH:257:LEU:HD21	46:NH:314:SER:HB3	1.88	0.54
45:OC:180:ALA:HB3	45:OC:183:GLU:HG3	1.89	0.54
45:OC:395:PHE:HZ	45:OC:418:PHE:HB3	1.73	0.54
46:OD:171:PRO:O	46:OD:380:ARG:NH2	2.41	0.54
45:OI:399:TYR:OH	45:OI:415:GLU:OE2	2.26	0.54
45:QA:268:MET:SD	45:QA:269:LEU:N	2.81	0.54
45:QC:390:ARG:HB3	45:QC:394:LYS:HZ3	1.72	0.54
45:QE:68:LEU:HD23	45:QE:93:ILE:HB	1.89	0.54
46:QH:158:GLU:HG2	46:QH:159:TYR:CE1	2.43	0.54
45:RA:333:ALA:O	45:RA:337:THR:HG23	2.07	0.54
46:RB:151:LEU:O	46:RB:155:VAL:HG12	2.07	0.54
46:RD:145:SER:HB2	46:RD:188:SER:HB3	1.88	0.54
46:RH:163:ILE:O	46:RH:164:MET:HE2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RJ:222:TYR:HA	46:RJ:225:LEU:HG	1.88	0.54
46:RL:252:LYS:HA	46:RL:255:VAL:HG22	1.89	0.54
46:SB:257:LEU:HB3	46:SB:266:PHE:CE1	2.42	0.54
46:SD:46:ARG:NH2	45:SE:76:ASP:OD2	2.41	0.54
45:SE:320:ARG:HH21	45:SE:359:PRO:C	2.15	0.54
45:SM:98:ASP:CG	45:SM:100:ALA:H	2.16	0.54
46:TF:73:MET:HA	46:TF:76:VAL:HG12	1.88	0.54
45:TG:88:HIS:HA	45:UG:283:HIS:HE1	1.73	0.54
46:TJ:67:ASP:OD1	46:TJ:68:LEU:N	2.40	0.54
46:TL:23:VAL:HG11	46:TL:230:SER:HB3	1.89	0.54
45:TM:88:HIS:HD2	45:UM:283:HIS:HD2	1.54	0.54
46:UB:185:ALA:O	46:UB:189:VAL:HG23	2.07	0.54
46:UJ:119:VAL:HA	46:UJ:122:LYS:HG2	1.90	0.54
46:UL:316:LEU:HB2	46:UL:366:THR:OG1	2.07	0.54
46:UN:257:LEU:HD11	46:UN:314:SER:HB2	1.89	0.54
46:UN:372:THR:HA	46:UN:422:TYR:HE2	1.72	0.54
45:VA:287:SER:O	45:VA:290:GLU:HG2	2.07	0.54
46:VB:285:THR:OG1	46:VB:288:GLU:OE1	2.24	0.54
45:VG:3:GLU:N	45:VG:133:GLN:OE1	2.41	0.54
45:VK:27:GLU:HG3	45:VK:361:THR:HG21	1.90	0.54
46:WB:290:THR:HA	46:WB:293:MET:HG3	1.88	0.54
46:WF:174:LYS:H	46:WF:174:LYS:HZ3	1.55	0.54
45:WI:239:THR:HG23	45:WI:243:ARG:HE	1.72	0.54
46:WJ:161:ASP:OD1	46:WJ:162:ARG:NH1	2.38	0.54
46:WJ:406:MET:O	46:WJ:410:GLU:HG2	2.07	0.54
46:WN:164:MET:HG2	46:WN:197:ASP:HB2	1.89	0.54
4:0D:99:ARG:HH22	45:EC:365:GLY:H	1.56	0.54
9:0N:247:GLN:N	45:KK:46:ASP:OD2	2.40	0.54
13:0U:329:PRO:HG2	13:0U:332:TYR:HB3	1.89	0.54
13:0U:346:VAL:HG23	13:0U:355:LEU:HB3	1.89	0.54
18:1I:121:ILE:HA	18:1I:124:GLU:OE1	2.07	0.54
19:1J:357:GLY:HA2	46:IN:280:GLN:HE22	1.72	0.54
20:1K:126:GLU:HA	20:1K:129:LYS:HD2	1.90	0.54
9:1N:360:SER:O	9:1N:364:ILE:HD12	2.08	0.54
23:1O:159:GLN:HB3	23:1O:163:LYS:NZ	2.22	0.54
23:1O:178:ASP:HA	23:1O:181:MET:HE2	1.89	0.54
10:1Q:179:PRO:HA	10:1Q:182:LYS:HG2	1.89	0.54
13:1U:385:LYS:HG2	13:1U:401:SER:HA	1.90	0.54
15:1X:78:ASN:HD22	46:MF:280:GLN:HE21	1.55	0.54
1:2A:6:TYR:HA	34:5R:8:THR:HB	1.90	0.54
5:2E:177:ASN:HB3	5:2E:180:HIS:HB2	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:2H:170:ILE:HG22	34:7R:84:PRO:HG2	1.89	0.54
21:2L:799:LEU:HB3	21:2L:805:LYS:HZ2	1.72	0.54
9:2N:77:GLU:HG2	9:2N:84:VAL:HG12	1.87	0.54
23:2O:380:LYS:HA	23:2O:383:ARG:NH1	2.23	0.54
24:2P:460:GLU:O	24:2P:464:ILE:HG12	2.08	0.54
13:2U:420:ILE:HG22	13:2U:432:TRP:HB2	1.89	0.54
16:3B:39:ASP:OD1	16:3B:40:ASN:N	2.40	0.54
12:3T:224:LYS:HE2	45:MK:196:GLU:HG2	1.88	0.54
10:4Q:48:GLU:HB2	10:4Q:161:ARG:HG2	1.90	0.54
35:4S:68:TYR:HA	35:4S:71:ARG:HD3	1.90	0.54
36:5B:82:ASP:HA	36:5B:85:ARG:NH1	2.22	0.54
34:6R:593:ASP:OD2	34:6R:597:ASN:N	2.40	0.54
46:AB:116:VAL:HA	46:AB:119:VAL:HG12	1.89	0.54
45:AC:205:ASP:OD1	45:AC:303:ALA:HA	2.06	0.54
46:AD:208:TYR:HE1	46:AD:225:LEU:HD11	1.73	0.54
45:AK:192:HIS:NE2	45:AK:420:GLU:OE1	2.38	0.54
45:BI:3:GLU:OE2	45:BI:131:GLY:N	2.37	0.54
46:BN:65:LEU:HD22	46:BN:90:PHE:CE1	2.42	0.54
46:BN:139:LEU:HD22	46:BN:170:VAL:HG12	1.89	0.54
46:CB:7:ILE:HG23	46:CB:64:ILE:HD11	1.89	0.54
45:CG:90:GLU:OE2	45:CG:121:ARG:NH2	2.41	0.54
45:CG:262:TYR:HD2	45:CG:265:ILE:HD12	1.73	0.54
46:CL:116:VAL:HA	46:CL:119:VAL:HG12	1.90	0.54
45:DM:269:LEU:HD12	45:DM:301:MET:HE2	1.89	0.54
45:EC:288:VAL:HG11	45:EC:327:ASP:HB3	1.88	0.54
46:ED:5:VAL:HG12	46:ED:62:ARG:HD2	1.90	0.54
46:ED:163:ILE:O	46:ED:164:MET:HE2	2.07	0.54
46:ED:409:THR:O	46:ED:412:GLU:HG3	2.08	0.54
46:EL:208:TYR:CE2	46:EL:225:LEU:HD11	2.42	0.54
46:EN:222:TYR:O	46:EN:226:ASN:ND2	2.33	0.54
45:FA:100:ALA:HB2	46:FB:251:ARG:HH21	1.72	0.54
45:FK:430:LYS:HA	45:FK:433:GLU:CD	2.33	0.54
46:GF:293:MET:HE3	46:GF:367:PHE:HB2	1.89	0.54
45:GG:231:ILE:O	45:GG:235:ILE:HD12	2.08	0.54
46:GH:74:ASP:OD1	46:GH:77:ARG:NH2	2.40	0.54
45:HA:22:GLU:O	45:HA:26:LEU:HD23	2.07	0.54
46:HJ:257:LEU:HD21	46:HJ:314:SER:HB3	1.90	0.54
45:IA:53:PHE:O	45:IA:64:ARG:NH2	2.41	0.54
46:IB:148:GLY:O	46:IB:152:ILE:HG12	2.07	0.54
46:IB:286:VAL:HG23	46:IB:287:PRO:HD3	1.89	0.54
45:IC:425:LEU:O	45:IC:429:GLU:HG2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IE:127:ASP:OD1	45:IE:128:ASN:N	2.41	0.54
45:II:407:TRP:CH2	46:IJ:255:VAL:HA	2.42	0.54
45:IM:52:PHE:HZ	45:IM:239:THR:HG21	1.73	0.54
45:JA:426:ALA:HB1	45:JA:430:LYS:NZ	2.22	0.54
45:JC:215:ARG:NH2	45:JC:299:ALA:O	2.41	0.54
46:JF:209:ASP:OD1	46:JF:210:ILE:N	2.40	0.54
46:JF:252:LYS:O	46:JF:256:ASN:HB2	2.08	0.54
45:JK:211:ASP:HA	45:JK:214:ARG:HG3	1.90	0.54
46:JN:375:GLN:HA	46:JN:378:PHE:CD2	2.42	0.54
45:KE:345:ASP:OD1	45:KE:346:TRP:N	2.41	0.54
45:KK:215:ARG:NH2	45:KK:299:ALA:O	2.39	0.54
45:KM:140:SER:HA	45:KM:171:ILE:HB	1.89	0.54
46:LH:73:MET:HA	46:LH:76:VAL:HG12	1.90	0.54
46:LH:222:TYR:O	46:LH:226:ASN:ND2	2.24	0.54
46:LL:52:ASN:OD1	46:LL:62:ARG:NH2	2.41	0.54
46:LL:282:ARG:NH2	46:LL:288:GLU:OE2	2.41	0.54
46:LN:73:MET:HA	46:LN:76:VAL:HG12	1.89	0.54
46:LN:174:LYS:HB2	46:LN:205:GLU:OE2	2.08	0.54
46:MD:238:CYS:SG	46:MD:239:CYS:N	2.81	0.54
45:ME:210:TYR:HB3	46:MF:324:LYS:NZ	2.22	0.54
45:ME:414:GLU:CD	45:ME:416:GLY:H	2.16	0.54
46:MF:22:GLU:HG2	46:MF:81:PHE:CD2	2.43	0.54
46:MH:107:THR:HG23	46:MH:108:GLU:OE1	2.07	0.54
45:NI:90:GLU:HG3	45:NI:121:ARG:NH1	2.23	0.54
46:NJ:324:LYS:HB2	46:NJ:324:LYS:HZ3	1.72	0.54
45:NM:317:MET:HE1	45:NM:377:MET:SD	2.48	0.54
45:OC:88:HIS:HB3	45:OC:91:GLN:HE22	1.73	0.54
46:OF:221:THR:HG23	46:OF:224:ASP:H	1.72	0.54
45:OI:211:ASP:OD2	45:OI:215:ARG:NH1	2.39	0.54
46:OL:103:LYS:O	46:OL:107:THR:OG1	2.26	0.54
45:OM:21:TRP:CZ2	45:OM:65:ALA:HB2	2.42	0.54
45:PC:67:PHE:HB2	45:PC:92:LEU:HD13	1.89	0.54
45:PG:20:CYS:HG	45:PG:21:TRP:CD1	2.25	0.54
45:QA:67:PHE:HB2	45:QA:92:LEU:HG	1.90	0.54
45:QC:284:GLU:HG2	45:QC:286:LEU:HD22	1.90	0.54
45:QG:261:PRO:HA	46:QH:394:PHE:HD1	1.73	0.54
45:QK:88:HIS:CE1	45:QK:90:GLU:HB2	2.42	0.54
45:QK:277:SER:OG	45:QK:280:LYS:NZ	2.39	0.54
45:QM:171:ILE:HG13	45:QM:171:ILE:O	2.06	0.54
45:QM:223:THR:HG23	45:QM:225:THR:H	1.73	0.54
46:RB:73:MET:HA	46:RB:76:VAL:HG12	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RB:117:LEU:HD13	46:RB:154:LYS:HD2	1.89	0.54
46:RB:202:ILE:HG13	46:RB:300:MET:HE3	1.90	0.54
45:RC:258:ASN:HD21	46:RD:178:THR:HG23	1.73	0.54
45:RC:326:LYS:HB3	46:RD:208:TYR:CE1	2.43	0.54
46:RJ:1:MET:SD	46:RJ:2:ARG:HG2	2.47	0.54
46:RJ:268:ILE:HG22	46:RJ:368:VAL:HG22	1.89	0.54
45:RK:265:ILE:HD11	45:RK:435:VAL:HG21	1.88	0.54
46:SD:260:PHE:HB2	46:SD:263:LEU:HD13	1.90	0.54
46:SF:83:GLN:O	46:TF:281:TYR:OH	2.25	0.54
45:SG:83:TYR:HB3	45:SG:86:LEU:HD12	1.89	0.54
46:SL:113:ILE:HB	46:SL:147:MET:HE1	1.90	0.54
46:SL:139:LEU:HD13	46:SL:168:SER:HB3	1.88	0.54
46:TB:200:MET:SD	46:TB:266:PHE:HB2	2.48	0.54
46:TD:6:HIS:O	46:TD:63:ALA:HA	2.07	0.54
46:TN:3:GLU:HG3	46:TN:62:ARG:NH1	2.23	0.54
45:UA:292:THR:HG21	45:UA:331:SER:HB3	1.89	0.54
45:UG:326:LYS:HD3	46:UH:212:PHE:CZ	2.42	0.54
46:UN:229:VAL:O	46:UN:233:MET:HG2	2.08	0.54
46:VB:344:TRP:HB3	46:VB:430:ALA:HB2	1.90	0.54
45:VC:352:LYS:NZ	46:VF:179:VAL:H	2.03	0.54
45:VE:140:SER:OG	47:VE:501:GTP:O2B	2.25	0.54
45:VG:317:MET:HG3	45:VG:377:MET:HG2	1.90	0.54
46:VH:293:MET:HE2	46:VH:367:PHE:HB2	1.90	0.54
45:VI:401:LYS:HZ3	46:VJ:344:TRP:CD1	2.26	0.54
45:VK:205:ASP:OD2	45:VK:303:ALA:HA	2.07	0.54
46:WB:375:GLN:HE22	46:WB:422:TYR:HB3	1.72	0.54
45:WE:401:LYS:HZ1	46:WF:344:TRP:CD1	2.24	0.54
45:WG:221:ARG:NH2	46:WH:322:SER:OG	2.40	0.54
46:WH:149:THR:HA	46:WH:152:ILE:HD12	1.88	0.54
45:WI:398:MET:N	45:WI:398:MET:HE2	2.22	0.54
46:WL:99:ASN:HA	46:WL:142:GLY:H	1.72	0.54
2:0B:142:HIS:CG	2:0B:143:LYS:H	2.26	0.54
3:0C:75:LEU:HB2	46:EH:362:LYS:NZ	2.23	0.54
9:0N:69:LYS:HB2	9:0N:72:TYR:CZ	2.43	0.54
13:0U:555:LYS:HE3	13:0U:576:GLY:H	1.72	0.54
19:1J:108:GLU:HB2	19:1J:111:TYR:CE2	2.43	0.54
19:1J:273:TRP:NE1	46:IL:276:ARG:HE	2.06	0.54
20:1K:97:GLU:OE1	22:1M:332:ILE:HG21	2.08	0.54
21:1L:887:LYS:HB2	21:1L:925:TYR:CD2	2.34	0.54
10:1Q:55:SER:OG	45:AC:422:ARG:NH2	2.40	0.54
13:1U:563:ASP:OD1	13:1U:564:GLU:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:2E:137:MET:HE1	34:5R:480:ILE:HG13	1.88	0.54
31:2I:197:GLN:HB3	31:2I:201:PRO:HG2	1.89	0.54
21:2L:553:MET:HE1	45:BM:223:THR:HB	1.90	0.54
21:2L:575:LYS:NZ	45:AM:85:GLN:HG2	2.22	0.54
22:2M:256:MET:HE1	22:2M:337:ILE:HA	1.88	0.54
22:2M:290:GLU:O	22:2M:292:ASN:N	2.40	0.54
23:2O:361:LEU:HA	23:2O:364:LYS:NZ	2.21	0.54
14:2V:231:LYS:HD3	14:2V:233:ASP:H	1.73	0.54
26:2W:207:ILE:O	26:2W:210:GLN:HG3	2.08	0.54
30:3H:219:ILE:O	45:MG:84:ARG:NH2	2.41	0.54
12:3T:54:GLU:OE2	12:3T:245:SER:OG	2.22	0.54
33:4F:109:ASN:HB3	33:4F:114:LYS:HG2	1.90	0.54
10:4Q:41:ASP:OD2	10:4Q:81:LYS:NZ	2.36	0.54
10:4Q:170:ARG:HB3	10:4Q:172:TYR:CE1	2.41	0.54
35:4S:62:ILE:HG13	35:4S:67:LYS:HE3	1.90	0.54
34:6R:511:TYR:HB2	45:EM:39:ASP:HB3	1.88	0.54
46:AB:309:ARG:N	46:AB:426:GLN:HE22	2.06	0.54
45:AM:317:MET:HE1	45:AM:319:TYR:CZ	2.42	0.54
45:AM:328:VAL:HG11	45:AM:353:VAL:HG21	1.88	0.54
46:BH:132:GLY:HA3	46:BH:163:ILE:O	2.08	0.54
46:BJ:58:ARG:HD3	46:CH:280:GLN:CD	2.33	0.54
46:CD:285:THR:OG1	46:CD:288:GLU:OE1	2.25	0.54
45:CK:50:ASN:ND2	45:CK:50:ASN:O	2.41	0.54
46:CL:327:ASP:OD1	46:CL:328:GLU:N	2.41	0.54
45:CM:123:ARG:NH2	45:CM:127:ASP:OD1	2.39	0.54
46:DB:6:HIS:HE1	46:DB:8:GLN:HB3	1.72	0.54
46:DB:86:ARG:HH12	46:EB:280:GLN:HG2	1.73	0.54
46:DB:268:ILE:HG22	46:DB:368:VAL:HG22	1.90	0.54
45:DG:324:VAL:CG1	45:DG:326:LYS:HE2	2.38	0.54
45:DG:339:ARG:HA	45:DG:339:ARG:CZ	2.38	0.54
45:DI:68:LEU:HG	45:DI:93:ILE:HB	1.89	0.54
46:DN:67:ASP:O	46:DN:92:PHE:HA	2.07	0.54
45:EG:203:MET:HA	45:EG:203:MET:HE3	1.88	0.54
46:EH:15:GLN:OE1	46:EH:226:ASN:ND2	2.35	0.54
46:EH:289:LEU:O	46:EH:293:MET:HG3	2.08	0.54
45:EK:68:LEU:HD11	45:EK:118:CYS:SG	2.47	0.54
45:EK:101:ASN:HA	45:EK:144:GLY:H	1.73	0.54
46:EL:19:LYS:NZ	46:EL:223:GLY:O	2.41	0.54
46:FB:73:MET:HA	46:FB:76:VAL:HG12	1.89	0.54
46:FD:20:PHE:HD2	46:FD:21:TRP:CD1	2.26	0.54
46:FF:342:VAL:HG13	46:FF:345:ILE:HG22	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FH:200:MET:SD	46:FH:266:PHE:HB2	2.48	0.54
46:GB:139:LEU:HD13	46:GB:168:SER:HB3	1.90	0.54
45:GC:98:ASP:O	45:GC:105:ARG:NH1	2.41	0.54
45:GG:35:GLN:HE22	45:GG:59:GLY:HA2	1.73	0.54
45:GG:200:VAL:HG13	45:GG:268:MET:HE1	1.89	0.54
45:HA:203:MET:HE3	45:HA:384:ILE:HG12	1.89	0.54
46:HB:221:THR:HG23	46:HB:224:ASP:H	1.72	0.54
45:HC:284:GLU:CD	45:HC:286:LEU:H	2.15	0.54
46:HF:148:GLY:O	46:HF:152:ILE:HG12	2.08	0.54
46:HJ:293:MET:HE3	46:HJ:367:PHE:HB2	1.90	0.54
46:HL:73:MET:HA	46:HL:76:VAL:HG12	1.90	0.54
45:IC:231:ILE:O	45:IC:235:ILE:HG12	2.08	0.54
46:IJ:86:ARG:NH2	45:JG:284:GLU:HG2	2.16	0.54
45:JA:135:PHE:HB2	45:JA:166:LYS:HG2	1.90	0.54
45:JA:203:MET:HA	45:JA:203:MET:HE3	1.90	0.54
45:JA:271:SER:OG	45:JA:301:MET:SD	2.66	0.54
45:JC:387:VAL:HG12	45:JC:390:ARG:NH2	2.23	0.54
45:JG:140:SER:OG	47:JG:501:GTP:O2B	2.24	0.54
45:JK:206:ASN:OD1	47:JK:501:GTP:N2	2.41	0.54
45:JK:318:MET:N	45:JK:318:MET:SD	2.80	0.54
45:JK:335:ILE:HA	45:JK:338:LYS:HZ2	1.73	0.54
45:KA:53:PHE:HB3	45:KA:61:HIS:HB3	1.90	0.54
45:KC:88:HIS:CE1	45:KC:90:GLU:HG2	2.43	0.54
46:KF:208:TYR:HE1	46:KF:225:LEU:HD11	1.73	0.54
45:KI:7:ILE:HB	45:KI:137:VAL:HG12	1.90	0.54
45:MA:217:LEU:HB3	45:MA:219:ILE:HG13	1.88	0.54
46:NB:316:LEU:HD13	46:NB:352:SER:HB2	1.90	0.54
45:NC:414:GLU:OE1	45:NC:416:GLY:N	2.34	0.54
46:NJ:293:MET:SD	46:NJ:367:PHE:HB2	2.48	0.54
45:NK:278:ALA:HB2	45:NK:369:ALA:HB2	1.90	0.54
45:OE:252:ILE:HA	45:OE:255:PHE:CE2	2.43	0.54
46:OF:103:LYS:NZ	46:OF:401:GLU:OE2	2.34	0.54
45:OM:17:GLY:HA2	45:OM:20:CYS:SG	2.48	0.54
46:PJ:290:THR:HA	46:PJ:293:MET:HG3	1.90	0.54
45:PK:26:LEU:HD21	45:PK:363:VAL:HG22	1.88	0.54
45:QA:224:TYR:HD1	45:QA:227:LEU:HD12	1.73	0.54
46:QB:134:GLN:HG2	46:QB:165:GLU:HG3	1.88	0.54
46:QB:182:PRO:O	46:QB:186:THR:HG23	2.08	0.54
45:QC:328:VAL:HG11	45:QC:353:VAL:HG21	1.90	0.54
45:QE:101:ASN:HA	45:QE:144:GLY:H	1.72	0.54
45:QG:332:ILE:HA	45:QG:335:ILE:HG12	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QJ:66:MET:HE1	46:QJ:151:LEU:HD13	1.89	0.54
45:QK:318:MET:HB2	45:QK:376:CYS:SG	2.48	0.54
46:QL:213:ARG:HG3	46:QL:214:THR:HG23	1.89	0.54
46:RB:91:VAL:HG21	46:RB:116:VAL:HB	1.90	0.54
45:RK:346:TRP:CD1	46:RL:391:ARG:HG3	2.43	0.54
46:RL:99:ASN:OD1	46:RL:142:GLY:N	2.41	0.54
46:RL:165:GLU:HG2	46:RL:198:GLU:OE1	2.07	0.54
45:SA:76:ASP:OD1	45:SA:79:ARG:NH2	2.40	0.54
46:SD:8:GLN:HE22	46:SD:17:GLY:CA	2.21	0.54
45:SG:118:CYS:O	45:SG:122:ILE:HG12	2.08	0.54
46:SL:20:PHE:HA	46:SL:230:SER:OG	2.07	0.54
45:SM:98:ASP:OD1	45:SM:99:ALA:N	2.40	0.54
46:TF:139:LEU:HD13	46:TF:168:SER:HB3	1.89	0.54
46:TF:282:ARG:NE	46:TF:288:GLU:OE2	2.41	0.54
46:TJ:21:TRP:CZ2	46:TJ:63:ALA:HB2	2.43	0.54
45:TK:377:MET:HE1	45:TK:379:SER:HB3	1.90	0.54
45:TM:98:ASP:O	45:TM:105:ARG:NH1	2.41	0.54
46:UB:119:VAL:O	46:UB:122:LYS:HG3	2.07	0.54
46:UF:290:THR:HA	46:UF:293:MET:HG3	1.89	0.54
45:UI:121:ARG:HH11	45:UI:121:ARG:HA	1.73	0.54
45:UM:89:PRO:HD2	45:VK:280:LYS:HE3	1.89	0.54
45:VA:231:ILE:O	45:VA:235:ILE:HG12	2.07	0.54
45:VC:222:PRO:O	46:VD:322:SER:HB2	2.08	0.54
45:VK:336:LYS:HD3	45:VK:351:PHE:HZ	1.71	0.54
46:VN:2:ARG:HA	46:VN:131:GLN:HE22	1.72	0.54
46:VN:208:TYR:HE2	46:VN:225:LEU:HD11	1.73	0.54
45:WC:340:THR:HG23	45:WC:341:ILE:HG13	1.89	0.54
46:WD:309:ARG:NH2	46:WD:426:GLN:O	2.32	0.54
45:WG:326:LYS:HE2	46:WJ:220:PRO:CD	2.36	0.54
45:WI:207:GLU:OE1	45:WI:207:GLU:N	2.37	0.54
45:DC:136:LEU:HD13	45:DC:167:LEU:HB2	1.90	0.54
45:DC:174:SER:HB2	45:DC:177:VAL:HB	1.89	0.54
1:0A:126:LYS:HD2	1:0A:126:LYS:N	2.23	0.54
5:0E:175:ILE:HB	5:0E:181:PHE:CE2	2.43	0.54
6:0F:137:ARG:HG3	20:1K:170:GLN:NE2	2.23	0.54
13:0U:51:LEU:HD23	13:0U:87:TRP:CD2	2.42	0.54
15:0X:45:GLN:NE2	45:MA:282:TYR:CG	2.76	0.54
19:1J:184:LYS:HZ1	19:1J:186:ARG:HB2	1.73	0.54
19:1J:415:ILE:O	19:1J:418:MET:C	2.50	0.54
24:1P:189:HIS:CE1	46:TH:362:LYS:HG2	2.43	0.54
25:1R:224:PHE:CG	46:BF:80:PRO:HG3	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:1R:306:LYS:HB2	25:1R:320:ASN:HB3	1.88	0.54
25:1R:410:TRP:CH2	45:EC:372:MET:HG2	2.42	0.54
25:1R:439:TYR:HD1	25:1R:446:LEU:HB3	1.73	0.54
27:2C:56:LYS:HE3	27:2C:71:TYR:HE2	1.71	0.54
27:2C:287:PHE:HA	27:2C:290:PHE:HB3	1.90	0.54
4:2D:120:MET:O	4:2D:121:LYS:HD3	2.07	0.54
4:2D:166:ARG:HD2	4:2D:167:ILE:N	2.14	0.54
20:2K:397:LYS:HD3	20:2K:401:LYS:NZ	2.22	0.54
22:2M:262:PHE:HB3	22:2M:308:VAL:HG13	1.89	0.54
23:2O:203:GLN:O	23:2O:207:HIS:ND1	2.37	0.54
12:2T:46:LYS:HA	12:2T:46:LYS:HE2	1.88	0.54
13:2U:549:VAL:HG12	13:2U:581:LEU:HD13	1.90	0.54
16:3B:154:LYS:HZ1	16:3B:165:GLU:HA	1.71	0.54
14:3V:125:MET:HE3	46:LD:390:ARG:HD2	1.89	0.54
34:4R:114:ARG:NH2	34:4R:131:GLU:OE2	2.27	0.54
37:5H:27:ARG:HH12	45:OK:221:ARG:HH12	1.56	0.54
40:6G:165:THR:OG1	40:6G:168:GLU:HG2	2.08	0.54
46:AF:69:GLU:CD	46:AF:71:GLY:H	2.16	0.54
45:AG:210:TYR:HE2	45:AG:227:LEU:HD21	1.72	0.54
45:AK:101:ASN:HA	45:AK:144:GLY:H	1.71	0.54
45:BC:226:ASN:ND2	45:BC:367:ASP:OD2	2.41	0.54
45:BC:332:ILE:HD12	45:BC:351:PHE:CD2	2.43	0.54
45:BG:297:GLU:HB3	45:BG:300:ASN:OD1	2.07	0.54
46:BJ:273:LEU:H	46:BJ:292:GLN:HE22	1.53	0.54
45:BK:141:VAL:HG11	45:BK:172:TYR:CD1	2.43	0.54
46:BL:6:HIS:CE1	46:BL:134:GLN:HE21	2.26	0.54
46:CB:199:CYS:C	46:CB:200:MET:HE2	2.33	0.54
46:CB:332:ASN:O	46:CB:336:LYS:HG2	2.07	0.54
46:CF:238:CYS:SG	46:CF:239:CYS:N	2.80	0.54
46:CF:313:ALA:HB1	46:CF:367:PHE:HE1	1.73	0.54
46:CH:290:THR:HA	46:CH:293:MET:HG2	1.89	0.54
46:DB:7:ILE:HG22	46:DB:64:ILE:HB	1.89	0.54
46:DF:138:SER:HA	46:DF:169:VAL:HB	1.88	0.54
46:EF:16:ILE:HD12	46:EF:229:VAL:HG11	1.90	0.54
46:EH:246:LEU:HD11	45:EI:224:TYR:HE2	1.73	0.54
46:FJ:124:ALA:O	46:FJ:130:LEU:HD21	2.08	0.54
45:GC:73:THR:HB	46:GD:2:ARG:HH22	1.72	0.54
46:GF:31:ASP:OD1	46:GF:35:THR:N	2.31	0.54
45:GK:251:ASP:OD1	45:GK:252:ILE:N	2.40	0.54
46:HB:31:ASP:OD2	46:HB:37:HIS:ND1	2.41	0.54
45:HE:326:LYS:HZ1	46:HH:219:THR:HA	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:HF:86:ARG:HD2	46:HF:87:PRO:HD2	1.89	0.54
46:HF:248:SER:HB2	46:HF:252:LYS:HD2	1.89	0.54
46:HH:294:PHE:HD2	46:HH:333:VAL:HG21	1.71	0.54
45:HM:340:THR:HG23	45:HM:341:ILE:HG13	1.90	0.54
46:HN:119:VAL:HA	46:HN:122:LYS:HE2	1.90	0.54
46:IH:105:HIS:CE1	46:IH:150:LEU:HD12	2.42	0.54
45:IK:226:ASN:ND2	45:IK:367:ASP:OD2	2.41	0.54
46:IL:218:THR:HG23	46:IL:219:THR:HG23	1.89	0.54
46:IN:29:GLY:HA3	46:IN:43:GLN:NE2	2.22	0.54
46:IN:282:ARG:HE	46:IN:288:GLU:CD	2.16	0.54
45:JA:215:ARG:NH2	45:JA:300:ASN:HA	2.21	0.54
45:JC:339:ARG:HA	45:JC:339:ARG:NH1	2.22	0.54
45:JI:251:ASP:OD1	45:JI:252:ILE:N	2.41	0.54
45:JM:222:PRO:HD2	46:JN:324:LYS:HD3	1.90	0.54
46:KD:73:MET:HA	46:KD:76:VAL:HG12	1.90	0.54
45:KE:166:LYS:N	45:KE:199:ASP:OD1	2.39	0.54
45:KE:271:SER:OG	45:KE:301:MET:SD	2.65	0.54
45:KI:60:LYS:NZ	45:KI:85:GLN:O	2.25	0.54
46:KJ:45:GLU:HG3	46:KJ:46:ARG:HH11	1.72	0.54
45:KM:255:PHE:O	45:KM:259:LEU:HB2	2.08	0.54
45:LI:398:MET:HG3	46:LJ:345:ILE:HG22	1.90	0.54
46:MD:64:ILE:HD13	46:MD:119:VAL:HG13	1.90	0.54
46:ND:130:LEU:HD11	46:ND:133:PHE:HE1	1.73	0.54
46:ND:186:THR:HG23	46:ND:415:MET:SD	2.47	0.54
45:NG:48:ALA:HB1	45:NG:243:ARG:HB2	1.90	0.54
45:NG:326:LYS:HG3	45:NG:327:ASP:N	2.22	0.54
45:OC:3:GLU:HG2	45:OC:132:LEU:HA	1.90	0.54
46:OD:156:ARG:NH1	46:OD:195:ASN:O	2.41	0.54
46:OJ:68:LEU:HD13	46:OJ:93:GLY:HA3	1.89	0.54
46:OL:148:GLY:O	46:OL:152:ILE:HG12	2.08	0.54
46:PF:45:GLU:OE2	46:PF:46:ARG:HG2	2.07	0.54
45:PG:75:ILE:HD12	45:PG:92:LEU:HB3	1.89	0.54
46:PN:388:MET:N	46:PN:388:MET:HE2	2.23	0.54
46:QJ:166:THR:OG1	46:QJ:199:CYS:SG	2.57	0.54
45:RA:76:ASP:OD1	45:RA:79:ARG:NH2	2.41	0.54
46:RB:284:LEU:HD11	46:RB:362:LYS:HD2	1.90	0.54
45:RG:326:LYS:HD3	46:RH:220:PRO:HD2	1.89	0.54
46:RH:139:LEU:HD22	46:RH:170:VAL:HG12	1.89	0.54
46:SB:86:ARG:HD2	46:SB:87:PRO:HD2	1.90	0.54
45:SE:68:LEU:HD13	45:SE:93:ILE:HB	1.89	0.54
45:SG:244:PHE:HB2	45:SG:356:ASN:HD21	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SK:74:VAL:O	45:SK:78:VAL:HG23	2.07	0.54
45:SM:68:LEU:HD13	45:SM:93:ILE:HB	1.90	0.54
45:TE:5:ILE:HB	45:TE:135:PHE:CD1	2.43	0.54
45:TM:238:LEU:HD21	45:TM:378:ILE:HD11	1.90	0.54
45:UC:5:ILE:HD13	45:UC:135:PHE:HE1	1.72	0.54
46:UD:7:ILE:HD13	46:UD:151:LEU:HD11	1.90	0.54
45:UM:208:ALA:N	45:UM:304:LYS:HD3	2.22	0.54
45:VA:222:PRO:HD2	46:VB:324:LYS:HZ1	1.73	0.54
46:VD:222:TYR:HA	46:VD:225:LEU:HG	1.90	0.54
45:WG:222:PRO:HG2	46:WH:324:LYS:NZ	2.23	0.54
46:WL:32:PRO:O	46:WL:83:GLN:NE2	2.37	0.54
45:CE:117:LEU:O	45:CE:121:ARG:HG2	2.08	0.54
2:0B:200:PHE:CE2	2:0B:306:ASN:HB2	2.42	0.54
4:0D:225:ARG:NH1	34:7R:566:PHE:HB2	2.23	0.54
7:0G:138:THR:O	7:0G:140:PHE:N	2.40	0.54
4:1D:120:MET:HE1	25:2R:485:VAL:HG13	1.90	0.54
18:1I:218:THR:HB	45:LE:322:ASP:HB3	1.90	0.54
20:1K:156:LEU:HD22	20:2K:480:LEU:HD22	1.90	0.54
23:1O:194:GLU:HA	23:1O:197:LYS:HG2	1.89	0.54
23:1O:223:ARG:HA	23:1O:226:GLU:HG3	1.90	0.54
24:1P:277:LYS:O	24:1P:281:GLU:HB2	2.08	0.54
25:1R:19:GLN:NE2	25:1R:21:SER:O	2.25	0.54
16:2B:170:TYR:OH	16:2B:193:TRP:NE1	2.41	0.54
16:2B:182:GLU:O	16:2B:186:ILE:HD12	2.08	0.54
20:2K:251:ARG:O	20:2K:254:LYS:HG3	2.07	0.54
20:2K:291:GLN:HE22	46:FL:55:THR:C	2.16	0.54
21:2L:511:ASP:O	21:2L:515:LYS:HG3	2.08	0.54
24:2P:380:ARG:HB3	45:TM:370:LYS:NZ	2.23	0.54
25:2R:232:LEU:HB3	25:2R:236:MET:HE1	1.90	0.54
11:2S:35:LEU:HD23	11:2S:36:ALA:N	2.22	0.54
11:2S:212:ILE:HG13	11:2S:251:TYR:CD2	2.43	0.54
11:2S:256:LEU:HD11	11:2S:291:LEU:HD21	1.90	0.54
13:2U:508:THR:OG1	13:2U:536:VAL:HG13	2.08	0.54
14:2V:267:THR:OG1	14:2V:269:MET:O	2.26	0.54
26:2W:243:ILE:HD13	1:3A:3:GLN:N	2.22	0.54
16:3B:265:ASP:OD1	16:3B:266:LYS:N	2.41	0.54
23:3O:281:GLU:HA	23:3O:284:VAL:HG22	1.90	0.54
36:5C:70:MET:HA	36:5C:70:MET:HE3	1.89	0.54
37:5F:72:ASP:O	37:5F:104:MET:N	2.41	0.54
37:5F:188:GLN:OE1	37:5F:192:ASN:ND2	2.39	0.54
34:5R:278:TYR:CD1	34:5R:285:THR:HB	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:7R:210:GLU:O	34:7R:214:THR:HG23	2.08	0.54
34:7R:251:ASN:HA	34:7R:254:LYS:HD2	1.90	0.54
46:AL:9:GLY:HA3	46:AL:66:MET:SD	2.48	0.54
45:BC:209:ILE:HA	45:BC:212:ILE:HG22	1.89	0.54
46:BF:102:ALA:HA	46:BF:403:MET:HE1	1.90	0.54
45:BG:105:ARG:NE	45:BG:411:GLU:OE1	2.40	0.54
45:BG:284:GLU:HG3	45:BG:286:LEU:HD22	1.88	0.54
46:BJ:117:LEU:HA	46:BJ:120:VAL:HG12	1.89	0.54
45:BK:331:SER:O	45:BK:335:ILE:HG12	2.07	0.54
45:CA:270:SER:HB3	45:CA:378:ILE:HD13	1.90	0.54
45:CC:287:SER:HB3	45:CC:290:GLU:HG2	1.89	0.54
46:CD:390:ARG:HE	46:CD:391:ARG:HG2	1.72	0.54
46:CJ:229:VAL:O	46:CJ:233:MET:HG2	2.08	0.54
45:CK:22:GLU:HG3	45:CK:83:TYR:OH	2.08	0.54
45:CK:98:ASP:OD1	45:CK:99:ALA:N	2.41	0.54
45:CK:284:GLU:HG2	45:CK:286:LEU:HD22	1.90	0.54
45:CK:419:SER:O	45:CK:423:GLU:HG2	2.08	0.54
46:DH:209:ASP:HB3	46:DH:213:ARG:NH1	2.23	0.54
45:EI:326:LYS:HG2	46:EJ:220:PRO:HD2	1.89	0.54
45:FC:88:HIS:HB3	45:FC:91:GLN:HG3	1.90	0.54
46:FD:143:THR:OG1	46:FD:147:MET:HE1	2.08	0.54
45:FK:141:VAL:HG21	45:FK:172:TYR:CD1	2.43	0.54
46:GB:16:ILE:HD12	46:GB:229:VAL:HG11	1.90	0.54
46:GH:3:GLU:HG3	46:GH:62:ARG:NH1	2.23	0.54
46:GN:398:TYR:HD1	46:GN:403:MET:HE1	1.72	0.54
46:HJ:103:LYS:NZ	46:HJ:401:GLU:OE2	2.41	0.54
46:IF:6:HIS:O	46:IF:63:ALA:HA	2.08	0.54
45:IG:18:ASN:O	45:IG:22:GLU:HG3	2.08	0.54
45:IG:280:LYS:HE3	45:IG:283:HIS:ND1	2.23	0.54
46:IN:45:GLU:C	46:IN:46:ARG:HD2	2.33	0.54
46:JJ:11:GLN:HA	46:JJ:72:THR:HG21	1.89	0.54
46:JJ:119:VAL:HA	46:JJ:122:LYS:HG2	1.89	0.54
45:KA:75:ILE:HG21	45:KA:94:SER:HB3	1.90	0.54
46:KJ:316:LEU:HD13	46:KJ:352:SER:HB2	1.89	0.54
45:KK:300:ASN:O	45:KK:300:ASN:ND2	2.40	0.54
45:KM:392:ASP:HA	45:KM:422:ARG:NH2	2.23	0.54
46:KN:200:MET:HE1	46:KN:266:PHE:HB2	1.90	0.54
46:LD:372:THR:HA	46:LD:422:TYR:CE2	2.43	0.54
46:MB:372:THR:HG21	46:MB:426:GLN:HB2	1.89	0.54
46:MH:101:TRP:HB2	46:MH:184:ASN:HB3	1.89	0.54
46:MJ:268:ILE:HG22	46:MJ:368:VAL:HG22	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MK:171:ILE:HG13	45:MK:204:LEU:HB2	1.90	0.54
45:MK:268:MET:HE2	45:MK:380:ASN:HB2	1.90	0.54
46:ML:3:GLU:HG3	46:ML:62:ARG:NH1	2.22	0.54
45:NA:118:CYS:O	45:NA:122:ILE:HG12	2.08	0.54
46:ND:83:GLN:O	46:OD:281:TYR:OH	2.12	0.54
45:NG:112:LYS:HA	45:NG:115:VAL:HG22	1.90	0.54
46:NN:233:MET:O	46:NN:236:VAL:HG12	2.08	0.54
45:OA:10:GLY:O	45:OA:14:ILE:HG12	2.07	0.54
45:OG:4:VAL:HG11	45:OG:136:LEU:HD23	1.90	0.54
46:OJ:182:PRO:HG2	46:OJ:388:MET:HE1	1.89	0.54
46:ON:230:SER:HA	46:ON:233:MET:HG2	1.90	0.54
45:PA:14:ILE:HG13	45:PA:67:PHE:CE1	2.43	0.54
46:PH:344:TRP:CE3	46:PH:345:ILE:HG23	2.42	0.54
46:PJ:74:ASP:HA	46:PJ:77:ARG:HE	1.73	0.54
46:PL:139:LEU:HD12	46:PL:170:VAL:HG12	1.89	0.54
45:QE:292:THR:HG21	45:QE:331:SER:HB2	1.90	0.54
46:QF:67:ASP:OD1	46:QF:68:LEU:N	2.41	0.54
45:RA:346:TRP:HZ2	45:RA:439:THR:HB	1.73	0.54
46:RD:99:ASN:HA	46:RD:142:GLY:H	1.73	0.54
46:RH:19:LYS:O	46:RH:22:GLU:HG3	2.07	0.54
46:RH:375:GLN:OE1	46:RH:379:LYS:NZ	2.40	0.54
46:SJ:46:ARG:HH12	45:SK:73:THR:HG23	1.72	0.54
45:TE:286:LEU:O	45:TE:373:ARG:NH1	2.37	0.54
46:TF:318:ARG:HB3	46:TF:357:PRO:HA	1.88	0.54
45:TG:132:LEU:O	45:TG:164:LYS:NZ	2.32	0.54
45:TI:120:ASP:HB3	45:TI:124:LYS:NZ	2.23	0.54
46:TN:318:ARG:HB3	46:TN:357:PRO:HA	1.90	0.54
46:UB:6:HIS:NE2	46:UB:8:GLN:OE1	2.41	0.54
46:UB:210:ILE:HA	46:UB:297:LYS:HZ1	1.72	0.54
46:UJ:207:LEU:HB3	46:UJ:225:LEU:HD22	1.90	0.54
46:VD:67:ASP:OD1	46:VD:68:LEU:N	2.38	0.54
45:VG:111:GLY:O	45:VG:115:VAL:HG13	2.07	0.54
46:VJ:186:THR:HA	46:VJ:189:VAL:HG12	1.88	0.54
46:VL:172:SER:OG	46:VL:205:GLU:OE1	2.20	0.54
46:WB:222:TYR:HA	46:WB:225:LEU:HG	1.90	0.54
46:WD:350:LYS:HD3	46:WD:351:SER:N	2.23	0.54
45:WE:88:HIS:HB3	45:WE:91:GLN:HG2	1.89	0.54
46:WF:52:ASN:OD1	46:WF:62:ARG:NH2	2.40	0.54
46:WH:86:ARG:NH2	46:WH:89:ASN:OD1	2.40	0.54
45:WI:419:SER:O	45:WI:423:GLU:HG2	2.08	0.54
45:CE:138:PHE:HE1	45:CE:169:PHE:CD2	2.26	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DC:260:VAL:HG23	45:DC:265:ILE:O	2.08	0.54
2:0B:139:GLN:HG3	2:0B:140:HIS:H	1.73	0.53
8:0H:398:GLU:HA	8:0H:401:ARG:CD	2.38	0.53
11:0S:312:THR:O	45:AA:402:ARG:NH2	2.41	0.53
13:0U:212:THR:HG22	13:0U:214:THR:H	1.72	0.53
8:1H:273:GLU:HA	8:1H:276:LYS:HB3	1.91	0.53
18:1I:214:GLN:HE21	26:1W:80:GLN:HE21	1.56	0.53
22:1M:118:ILE:HD11	22:1M:159:MET:HB2	1.90	0.53
11:1S:229:ILE:O	11:1S:233:ILE:HG12	2.07	0.53
13:1U:294:PHE:HE2	13:1U:304:TRP:CE3	2.27	0.53
13:1U:342:THR:OG1	13:1U:360:VAL:O	2.25	0.53
13:1U:462:ASP:O	13:1U:478:LEU:HB3	2.08	0.53
28:2F:29:HIS:O	28:2F:32:THR:OG1	2.21	0.53
9:2N:47:LYS:O	9:2N:51:LEU:HG	2.07	0.53
24:2P:380:ARG:O	24:2P:383:GLU:HG3	2.07	0.53
25:2R:365:GLU:HG3	25:2R:367:TYR:HB3	1.90	0.53
13:2U:448:HIS:NE2	13:2U:472:SER:OG	2.38	0.53
14:2V:249:THR:HA	14:2V:252:GLU:HG3	1.88	0.53
5:3E:152:ASP:OD1	5:3E:153:ASN:N	2.42	0.53
31:3I:228:ARG:HG2	31:3I:229:PHE:CE1	2.43	0.53
11:3S:97:ARG:NE	11:3S:97:ARG:HA	2.23	0.53
13:3U:502:GLU:HG3	13:3U:504:GLN:H	1.73	0.53
13:3U:552:GLY:O	13:3U:578:ILE:HG23	2.07	0.53
34:4R:319:PRO:HG3	46:CF:228:LEU:HD22	1.90	0.53
37:5E:146:PHE:HA	37:5E:149:ARG:HG2	1.89	0.53
34:5R:463:SER:C	46:FJ:276:ARG:HH12	2.16	0.53
35:5S:160:THR:O	35:5S:164:LYS:HG2	2.09	0.53
10:6Q:57:ASN:HB2	10:6Q:158:ALA:HB2	1.89	0.53
45:AA:75:ILE:HG21	45:AA:94:SER:HB2	1.90	0.53
45:AA:140:SER:OG	47:AA:501:GTP:O2B	2.25	0.53
45:AA:238:LEU:HD12	45:AA:318:MET:HE1	1.90	0.53
46:BF:248:SER:HA	46:BF:252:LYS:HG3	1.90	0.53
46:BJ:65:LEU:HB3	46:BJ:73:MET:HE2	1.91	0.53
46:CB:74:ASP:OD1	46:CB:77:ARG:NE	2.35	0.53
45:DA:215:ARG:NH2	45:DA:299:ALA:O	2.41	0.53
46:DD:105:HIS:CD2	46:DD:150:LEU:HB2	2.44	0.53
45:DE:272:TYR:HD2	45:DE:275:ILE:HD11	1.73	0.53
46:DF:72:THR:OG1	46:DF:73:MET:SD	2.65	0.53
46:DH:294:PHE:CD1	46:DH:333:VAL:HG21	2.43	0.53
45:DI:319:TYR:HB3	45:DI:323:VAL:HG11	1.89	0.53
45:DM:262:TYR:HB3	45:DM:265:ILE:HG12	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ED:375:GLN:HB2	46:ED:379:LYS:HZ2	1.73	0.53
46:EF:289:LEU:HD12	46:EF:363:MET:HE3	1.90	0.53
45:EG:67:PHE:HB2	45:EG:92:LEU:HD13	1.88	0.53
45:EI:185:TYR:CE1	45:EI:398:MET:HE2	2.43	0.53
46:EL:376:GLU:HA	46:EL:379:LYS:HD2	1.90	0.53
45:EM:20:CYS:HA	45:EM:232:ALA:HB1	1.90	0.53
45:FC:15:GLN:NE2	47:FC:501:GTP:O6	2.42	0.53
45:FC:102:ASN:ND2	45:FC:407:TRP:O	2.33	0.53
46:FH:271:ALA:HB3	46:FH:365:VAL:HB	1.89	0.53
45:FK:97:GLU:HB2	45:FK:110:ILE:HD13	1.90	0.53
46:FL:341:PHE:HD2	46:FL:348:ASN:HD21	1.56	0.53
45:GA:230:LEU:O	45:GA:234:VAL:HG23	2.08	0.53
46:GB:49:VAL:HG11	46:GB:241:ARG:HG2	1.90	0.53
46:GD:31:ASP:OD1	46:GD:35:THR:N	2.35	0.53
45:GG:21:TRP:CZ2	45:GG:65:ALA:HB2	2.43	0.53
45:GI:241:SER:OG	45:GI:250:VAL:O	2.23	0.53
46:GN:73:MET:HA	46:GN:76:VAL:HG12	1.90	0.53
45:HA:9:VAL:HG22	45:HA:68:LEU:HB2	1.90	0.53
46:HH:66:MET:HE1	46:HH:151:LEU:HD22	1.89	0.53
45:HI:201:ALA:HB3	45:HI:267:PHE:HD1	1.73	0.53
45:HK:223:THR:HA	46:HL:322:SER:HB2	1.90	0.53
45:IA:214:ARG:HH21	45:IA:215:ARG:HB2	1.73	0.53
45:IA:326:LYS:HE3	46:ID:208:TYR:CE2	2.43	0.53
45:IE:332:ILE:HD11	45:IE:351:PHE:CG	2.43	0.53
46:IH:3:GLU:OE1	46:IH:62:ARG:HD2	2.07	0.53
45:JC:76:ASP:HA	45:JC:79:ARG:HD2	1.90	0.53
45:JE:288:VAL:HG11	45:JE:327:ASP:HB3	1.90	0.53
46:JF:19:LYS:HZ3	46:JF:227:HIS:HB2	1.72	0.53
46:KD:292:GLN:HG2	46:KD:298:ASN:ND2	2.23	0.53
45:KG:105:ARG:HG2	45:KG:411:GLU:HG2	1.90	0.53
46:KL:73:MET:HE1	46:KL:91:VAL:O	2.08	0.53
46:KN:139:LEU:HD13	46:KN:168:SER:HB3	1.90	0.53
45:LA:68:LEU:HD23	45:LA:93:ILE:HB	1.90	0.53
45:LC:301:MET:HE3	45:LC:301:MET:HA	1.90	0.53
46:LN:63:ALA:O	46:LN:89:ASN:ND2	2.41	0.53
46:LN:132:GLY:HA3	46:LN:163:ILE:HG22	1.89	0.53
46:MB:118:ASP:O	46:MB:121:ARG:HG2	2.08	0.53
46:MF:5:VAL:HG12	46:MF:62:ARG:HD2	1.90	0.53
46:MJ:104:GLY:HA3	46:MJ:143:THR:HA	1.89	0.53
46:ML:97:ALA:C	46:ML:103:LYS:HZ1	2.16	0.53
45:NA:326:LYS:HE2	46:ND:208:TYR:CD2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ND:313:ALA:HB1	46:ND:367:PHE:HE1	1.73	0.53
45:NG:118:CYS:O	45:NG:122:ILE:HG12	2.08	0.53
45:NG:121:ARG:HA	45:NG:124:LYS:HG2	1.90	0.53
46:NH:222:TYR:O	46:NH:226:ASN:ND2	2.30	0.53
46:NL:272:PRO:HG3	46:NL:284:LEU:HG	1.90	0.53
45:OE:27:GLU:HG3	45:OE:361:THR:HG21	1.90	0.53
45:OI:352:LYS:HE2	46:OL:178:THR:HA	1.89	0.53
45:PA:221:ARG:NH2	46:PB:321:MET:HB2	2.22	0.53
45:PC:147:SER:HB2	45:PC:190:SER:HB3	1.90	0.53
46:PD:51:TYR:HB3	46:PD:59:TYR:HB3	1.90	0.53
45:PG:326:LYS:HG3	45:PG:327:ASP:N	2.23	0.53
45:PK:399:TYR:O	45:PK:402:ARG:NH1	2.40	0.53
46:PL:183:TYR:HE2	46:PL:394:PHE:HB2	1.72	0.53
45:PM:229:ARG:O	45:PM:233:GLN:NE2	2.40	0.53
45:QC:69:ASP:O	45:QC:94:SER:HA	2.08	0.53
46:QD:52:ASN:OD1	46:QD:62:ARG:NH2	2.41	0.53
46:QD:292:GLN:HE21	46:QD:298:ASN:ND2	2.06	0.53
46:QF:284:LEU:HD21	46:QF:362:LYS:HE2	1.90	0.53
45:QI:97:GLU:HG2	45:QI:105:ARG:HH22	1.73	0.53
46:QJ:289:LEU:HD13	46:QJ:365:VAL:HG23	1.89	0.53
46:RF:213:ARG:NE	46:RF:213:ARG:HA	2.23	0.53
46:RF:238:CYS:SG	46:RF:239:CYS:N	2.81	0.53
45:RG:7:ILE:HB	45:RG:137:VAL:HG12	1.90	0.53
46:RH:12:CYS:O	46:RH:16:ILE:HG12	2.08	0.53
45:RI:76:ASP:HA	45:RI:79:ARG:NH1	2.22	0.53
45:RI:276:ILE:HG23	45:RI:280:LYS:NZ	2.23	0.53
45:RI:319:TYR:HE2	45:RI:328:VAL:HG13	1.73	0.53
45:RK:254:GLU:OE2	45:RK:258:ASN:ND2	2.41	0.53
46:RL:392:LYS:HA	46:RL:395:LEU:HD12	1.89	0.53
46:SB:330:MET:HE2	46:SB:349:ILE:HG21	1.90	0.53
45:SM:328:VAL:HG11	45:SM:353:VAL:HG21	1.90	0.53
46:TB:178:THR:HB	46:TB:181:GLU:HG3	1.89	0.53
45:TE:226:ASN:ND2	45:TE:367:ASP:OD2	2.41	0.53
45:TE:326:LYS:HZ3	46:TF:208:TYR:HB3	1.73	0.53
45:TE:402:ARG:HH12	45:TE:406:HIS:N	2.05	0.53
46:TH:3:GLU:HG3	46:TH:49:VAL:HA	1.89	0.53
46:TH:73:MET:HA	46:TH:76:VAL:HG22	1.88	0.53
46:TJ:58:ARG:NH2	46:UJ:280:GLN:OE1	2.41	0.53
46:TJ:293:MET:SD	46:TJ:365:VAL:HG11	2.48	0.53
45:TM:406:HIS:HA	45:TM:409:VAL:HG22	1.89	0.53
46:TN:172:SER:HA	46:TN:377:MET:HE1	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UB:321:MET:HE3	45:UC:221:ARG:HE	1.73	0.53
46:UH:318:ARG:HB3	46:UH:357:PRO:HA	1.90	0.53
46:UJ:10:GLY:O	46:UJ:14:ASN:ND2	2.41	0.53
46:UJ:153:SER:HA	46:UJ:195:ASN:HD22	1.72	0.53
46:UL:190:HIS:CD2	46:UL:411:ALA:HA	2.44	0.53
45:VA:113:GLU:HG2	45:VA:114:ILE:HD12	1.90	0.53
45:VC:352:LYS:HZ2	46:VF:178:THR:HG23	1.72	0.53
46:VD:178:THR:HG22	46:VD:180:VAL:H	1.73	0.53
45:VK:352:LYS:HZ3	46:VN:179:VAL:H	1.55	0.53
46:WF:266:PHE:CE1	46:WF:370:ASN:HB2	2.44	0.53
45:WG:104:ALA:HB2	45:WG:413:MET:HG2	1.90	0.53
45:WK:195:LEU:HG	45:WK:264:ARG:NH2	2.23	0.53
46:WN:267:MET:HE2	46:WN:299:MET:HB2	1.89	0.53
1:0A:35:TYR:H	46:MB:320:ARG:NH2	2.05	0.53
9:0N:20:SER:OG	45:IM:84:ARG:NH2	2.29	0.53
11:0S:34:ILE:HG13	11:0S:34:ILE:O	2.06	0.53
12:0T:53:ARG:HH22	12:0T:191:PHE:H	1.55	0.53
5:1E:88:ILE:O	5:1E:91:GLU:HB2	2.08	0.53
8:1H:62:ILE:HA	8:1H:65:ILE:HD12	1.89	0.53
19:1J:243:HIS:C	45:II:221:ARG:HD2	2.33	0.53
20:1K:80:ARG:HH12	22:1M:285:LYS:N	2.06	0.53
9:1N:362:LEU:HA	9:1N:365:LYS:HD2	1.90	0.53
23:1O:133:MET:SD	46:UF:80:PRO:HB3	2.47	0.53
24:1P:103:LYS:O	24:1P:107:THR:HG23	2.09	0.53
24:1P:155:PHE:O	24:1P:159:LEU:HD23	2.07	0.53
24:1P:180:GLU:N	24:1P:180:GLU:OE1	2.41	0.53
24:1P:194:LYS:HA	24:1P:197:ILE:HG12	1.90	0.53
4:2D:95:GLN:HE22	45:EK:364:PRO:HB2	1.72	0.53
21:2L:529:GLU:HA	21:2L:532:ARG:HH11	1.73	0.53
22:2M:110:ILE:HD11	22:2M:190:ILE:HD11	1.90	0.53
9:2N:9:LYS:NZ	9:2N:17:GLY:O	2.41	0.53
23:2O:165:ASP:O	23:2O:169:GLU:HG2	2.08	0.53
10:2Q:71:ILE:HB	10:2Q:151:THR:HB	1.90	0.53
11:2S:97:ARG:HH12	46:MJ:262:ARG:NH1	2.06	0.53
27:3C:116:SER:O	27:3C:118:GLN:NE2	2.42	0.53
27:3C:123:HIS:HD2	27:3C:125:PHE:HB3	1.73	0.53
27:3C:207:LYS:O	27:3C:211:LYS:HG2	2.09	0.53
23:3O:411:LYS:HE2	23:3O:414:ILE:HD12	1.90	0.53
14:3V:110:GLU:HA	14:3V:112:ARG:HH12	1.74	0.53
15:4X:38:ILE:HG13	15:4X:41:GLN:HE21	1.73	0.53
15:4X:85:GLU:O	15:4X:89:ASN:ND2	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5E:74:ASP:HB3	37:5E:77:LYS:HG2	1.89	0.53
37:5G:33:TYR:HB3	45:NG:85:GLN:HE22	1.73	0.53
34:5R:206:ASN:ND2	34:5R:210:GLU:OE1	2.41	0.53
34:6R:397:SER:HB3	46:EN:276:ARG:HH21	1.74	0.53
46:AH:334:GLN:CD	46:AH:349:ILE:HD11	2.34	0.53
46:AL:229:VAL:HG12	46:AL:233:MET:HE2	1.89	0.53
45:AM:118:CYS:O	45:AM:122:ILE:HG12	2.07	0.53
46:AN:290:THR:HA	46:AN:293:MET:HG2	1.90	0.53
45:BC:167:LEU:HG	45:BC:200:VAL:HB	1.89	0.53
45:BC:205:ASP:OD2	45:BC:303:ALA:HA	2.09	0.53
46:BD:132:GLY:HA3	46:BD:163:ILE:O	2.08	0.53
45:BI:174:SER:HB2	45:BI:177:VAL:O	2.08	0.53
45:BM:398:MET:HE2	46:BN:346:PRO:HD2	1.90	0.53
46:CH:224:ASP:O	46:CH:228:LEU:HD12	2.08	0.53
46:CH:232:ALA:HB1	46:CH:268:ILE:HD12	1.89	0.53
46:CJ:309:ARG:NH2	46:CJ:426:GLN:O	2.34	0.53
45:CK:208:ALA:O	45:CK:212:ILE:HG12	2.08	0.53
46:DD:203:ASP:OD2	46:DD:205:GLU:HB2	2.08	0.53
46:DD:258:ILE:HD11	45:DE:407:TRP:HZ2	1.73	0.53
45:DE:141:VAL:HG12	45:DE:171:ILE:O	2.09	0.53
46:DH:99:ASN:OD1	46:DH:142:GLY:N	2.41	0.53
46:DJ:324:LYS:NZ	45:DK:210:TYR:HB3	2.24	0.53
46:EB:178:THR:HB	46:EB:181:GLU:HG3	1.91	0.53
45:EC:1:MET:HE1	46:ED:70:PRO:HD2	1.88	0.53
46:ED:201:VAL:HG13	46:ED:301:CYS:SG	2.48	0.53
46:EH:210:ILE:O	46:EH:214:THR:OG1	2.23	0.53
46:EN:282:ARG:NH2	46:EN:292:GLN:OE1	2.42	0.53
45:FA:15:GLN:NE2	47:FA:501:GTP:O6	2.41	0.53
45:FA:119:LEU:HA	45:FA:122:ILE:HG12	1.90	0.53
45:FC:267:PHE:HD2	45:FC:388:PHE:HZ	1.54	0.53
45:FE:11:GLN:NE2	46:FF:247:ASN:OD1	2.41	0.53
45:FG:224:TYR:HE2	46:FH:246:LEU:HD11	1.72	0.53
46:FJ:294:PHE:HD1	46:FJ:333:VAL:HG11	1.73	0.53
46:FN:6:HIS:O	46:FN:63:ALA:HA	2.08	0.53
46:GB:3:GLU:HA	46:GB:49:VAL:HG23	1.90	0.53
45:GG:408:TYR:HB3	45:GG:413:MET:HE2	1.90	0.53
46:HB:226:ASN:HD21	49:HB:501:GDP:HN1	1.55	0.53
45:HM:284:GLU:HG3	45:HM:286:LEU:HD22	1.90	0.53
45:IM:55:GLU:HG2	45:IM:61:HIS:CE1	2.43	0.53
45:JE:328:VAL:O	45:JE:332:ILE:HD12	2.08	0.53
46:JF:186:THR:HA	46:JF:189:VAL:HG12	1.88	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JG:102:ASN:ND2	45:JG:105:ARG:HG3	2.23	0.53
45:JI:133:GLN:HB3	45:JI:252:ILE:HD11	1.90	0.53
46:JJ:136:THR:HG22	46:JJ:233:MET:HE1	1.90	0.53
45:JK:17:GLY:HA2	45:JK:20:CYS:SG	2.48	0.53
45:KA:177:VAL:HB	46:KB:331:LEU:HD11	1.89	0.53
46:KD:45:GLU:OE2	46:KD:46:ARG:NH1	2.41	0.53
45:KE:76:ASP:HA	45:KE:79:ARG:HG2	1.90	0.53
45:KK:326:LYS:HZ1	46:KN:220:PRO:C	2.15	0.53
45:KK:326:LYS:HZ3	46:KN:220:PRO:HD2	1.74	0.53
46:KL:128:ASP:OD1	46:KL:129:CYS:N	2.41	0.53
46:KL:405:GLU:HG2	46:KL:406:MET:HE2	1.89	0.53
46:LB:268:ILE:HG13	46:LB:300:MET:HE2	1.91	0.53
45:LE:141:VAL:HG12	45:LE:171:ILE:O	2.08	0.53
46:LH:187:LEU:HD11	46:LH:408:PHE:HE1	1.73	0.53
46:LJ:19:LYS:NZ	46:LJ:227:HIS:HB2	2.23	0.53
45:LK:269:LEU:HD23	45:LK:384:ILE:HD11	1.89	0.53
46:LN:289:LEU:HD11	46:LN:363:MET:HG3	1.91	0.53
46:LN:334:GLN:NE2	46:LN:348:ASN:OD1	2.42	0.53
46:LN:334:GLN:HE22	46:LN:348:ASN:H	1.56	0.53
45:MC:69:ASP:OD2	45:MC:70:LEU:N	2.41	0.53
45:MK:262:TYR:OH	46:MN:391:ARG:O	2.26	0.53
45:MK:271:SER:HB2	45:MK:377:MET:HB3	1.90	0.53
45:MM:183:GLU:OE1	45:MM:183:GLU:N	2.34	0.53
46:MN:222:TYR:O	46:MN:226:ASN:ND2	2.26	0.53
45:NA:75:ILE:HG22	45:NA:79:ARG:NH1	2.23	0.53
46:NB:2:ARG:N	46:NB:129:CYS:SG	2.72	0.53
47:NE:501:GTP:O1G	46:NF:252:LYS:NZ	2.35	0.53
46:NH:345:ILE:HG22	46:NH:348:ASN:HB3	1.91	0.53
46:NJ:213:ARG:NH2	46:NJ:297:LYS:HB3	2.22	0.53
46:NJ:242:PHE:HB3	46:NJ:356:ILE:HD13	1.90	0.53
45:NK:398:MET:HE1	46:NL:345:ILE:HA	1.90	0.53
45:NM:49:PHE:HB2	45:NM:53:PHE:HB2	1.90	0.53
45:NM:269:LEU:HB2	45:NM:301:MET:HE1	1.89	0.53
45:OI:221:ARG:HH22	46:OJ:321:MET:HA	1.72	0.53
45:OI:311:LYS:N	45:OI:382:THR:OG1	2.41	0.53
45:OK:212:ILE:HD11	45:OK:300:ASN:HA	1.90	0.53
46:PF:318:ARG:HB3	46:PF:357:PRO:HA	1.90	0.53
45:PI:141:VAL:HG11	45:PI:172:TYR:HD1	1.73	0.53
46:PN:86:ARG:HE	46:PN:87:PRO:HD2	1.74	0.53
46:QB:344:TRP:HB3	46:QB:430:ALA:HB2	1.89	0.53
45:QG:155:GLU:HA	45:QG:197:HIS:CE1	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QH:69:GLU:CD	46:QH:71:GLY:H	2.16	0.53
46:QH:375:GLN:OE1	46:QH:379:LYS:NZ	2.40	0.53
46:QJ:390:ARG:HD2	46:QJ:391:ARG:HG2	1.90	0.53
45:RE:268:MET:HE2	45:RE:378:ILE:HG22	1.89	0.53
46:RJ:217:LEU:HD23	46:RJ:219:THR:H	1.73	0.53
46:RL:235:GLY:HA3	46:RL:366:THR:HG21	1.90	0.53
45:RM:69:ASP:O	45:RM:94:SER:HA	2.07	0.53
46:SB:113:ILE:HD13	46:SB:154:LYS:HZ2	1.73	0.53
46:SH:69:GLU:CD	46:SH:71:GLY:H	2.16	0.53
46:TH:309:ARG:NH2	46:TH:426:GLN:O	2.33	0.53
46:TJ:27:GLU:OE2	46:TJ:241:ARG:NH2	2.37	0.53
46:TL:139:LEU:HD22	46:TL:170:VAL:HG12	1.89	0.53
46:TL:327:ASP:OD1	46:TL:328:GLU:N	2.41	0.53
46:UF:131:GLN:HE22	46:UF:240:LEU:HD11	1.72	0.53
45:UK:188:ILE:HD11	45:UK:391:LEU:HB3	1.90	0.53
46:UL:254:ALA:O	46:UL:258:ILE:HG22	2.08	0.53
45:UM:292:THR:HG21	45:UM:331:SER:HB3	1.90	0.53
46:UN:66:MET:SD	46:UN:147:MET:HE3	2.48	0.53
45:VA:75:ILE:HG21	45:VA:92:LEU:HB3	1.90	0.53
46:VD:186:THR:HA	46:VD:189:VAL:HG12	1.89	0.53
46:VL:86:ARG:HA	46:VL:86:ARG:NH1	2.23	0.53
46:VN:119:VAL:O	46:VN:123:GLU:HG2	2.08	0.53
46:WB:9:GLY:HA2	46:WB:66:MET:O	2.08	0.53
46:WD:149:THR:HA	46:WD:152:ILE:HD12	1.91	0.53
46:WD:406:MET:O	46:WD:410:GLU:HG2	2.08	0.53
45:WI:150:GLY:O	45:WI:154:LEU:HD23	2.09	0.53
45:WI:248:LEU:HD12	45:WI:355:ILE:HD12	1.89	0.53
45:WI:396:ASP:OD1	45:WI:422:ARG:NH1	2.42	0.53
46:WJ:153:SER:HB3	46:WJ:154:LYS:NZ	2.23	0.53
46:WJ:233:MET:HA	46:WJ:233:MET:HE3	1.90	0.53
45:WM:100:ALA:HB1	46:WN:252:LYS:HA	1.89	0.53
46:WN:376:GLU:N	46:WN:376:GLU:OE1	2.41	0.53
45:DC:88:HIS:CE1	45:DC:90:GLU:HG2	2.43	0.53
4:0D:129:GLN:O	4:0D:133:THR:HG23	2.08	0.53
12:0T:64:MET:HB2	12:0T:67:PHE:O	2.07	0.53
14:0V:46:PRO:HG3	45:LM:95:GLY:HA2	1.90	0.53
15:0X:82:GLY:HA2	15:0X:85:GLU:CD	2.34	0.53
1:1A:69:ASN:HD21	46:AF:363:MET:HE1	1.72	0.53
8:1H:421:THR:O	8:1H:425:THR:HG23	2.09	0.53
19:1J:263:PHE:CE2	45:II:281:ALA:HB3	2.43	0.53
10:1Q:178:PRO:HG2	10:1Q:181:PHE:HD1	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:1R:443:ASP:OD2	25:1R:445:SER:OG	2.22	0.53
13:1U:448:HIS:NE2	13:1U:472:SER:OG	2.42	0.53
27:2C:232:PHE:CZ	46:JJ:53:GLU:HB3	2.44	0.53
31:2I:127:ALA:HB3	31:2I:131:ARG:HH12	1.72	0.53
21:2L:544:LYS:O	21:2L:548:ARG:HG3	2.08	0.53
9:2N:9:LYS:HG3	9:2N:16:ILE:HD11	1.90	0.53
25:2R:312:GLN:NE2	46:CH:361:LEU:HG	2.23	0.53
5:3E:138:THR:OG1	5:3E:139:GLU:OE2	2.26	0.53
11:3S:43:TYR:OH	45:WK:121:ARG:NE	2.29	0.53
14:3V:105:LYS:NZ	14:3V:110:GLU:OE2	2.31	0.53
14:3V:137:ASN:ND2	46:LD:425:TYR:OH	2.35	0.53
33:4F:125:ASN:OD1	33:4F:126:TYR:N	2.41	0.53
10:4Q:109:GLN:NE2	10:4Q:111:THR:O	2.41	0.53
35:4S:209:ARG:NH2	46:WD:119:VAL:HG13	2.11	0.53
37:5E:80:LYS:HE2	45:KA:401:LYS:HA	1.90	0.53
34:5R:553:ILE:HG13	34:5R:606:PHE:HE1	1.73	0.53
45:AA:401:LYS:HZ1	46:AB:425:TYR:HE1	1.56	0.53
46:AB:245:GLN:HB2	46:AB:353:ILE:HB	1.90	0.53
45:AM:224:TYR:HE2	46:AN:246:LEU:HD11	1.72	0.53
45:BG:209:ILE:HG23	45:BG:230:LEU:HD23	1.90	0.53
45:BI:284:GLU:HG2	45:BI:286:LEU:HD22	1.90	0.53
46:BN:91:VAL:HG21	46:BN:116:VAL:HB	1.89	0.53
46:BN:235:GLY:HA2	46:BN:318:ARG:NH2	2.24	0.53
46:CF:86:ARG:NH2	46:DF:281:TYR:CE1	2.76	0.53
46:CH:73:MET:HB2	46:CH:90:PHE:CE1	2.43	0.53
45:DG:35:GLN:OE1	45:DG:36:MET:N	2.41	0.53
45:DG:346:TRP:CD1	46:DH:391:ARG:HG3	2.44	0.53
46:DJ:48:ASN:O	46:DJ:62:ARG:NH1	2.41	0.53
46:DL:375:GLN:HG2	46:DL:379:LYS:NZ	2.23	0.53
46:EB:64:ILE:HG22	46:EB:66:MET:HE3	1.89	0.53
45:EC:238:LEU:HA	45:EC:318:MET:HE1	1.90	0.53
45:EG:352:LYS:HD2	46:EH:177:ASP:O	2.08	0.53
46:EH:204:ASN:OD1	49:EH:501:GDP:O2'	2.24	0.53
46:EH:294:PHE:HD1	46:EH:333:VAL:HG21	1.73	0.53
46:EJ:167:PHE:CZ	46:EJ:233:MET:HG3	2.43	0.53
45:EK:204:LEU:HD12	45:EK:231:ILE:HD12	1.90	0.53
46:EL:6:HIS:O	46:EL:63:ALA:HA	2.08	0.53
46:EN:237:THR:HG23	46:EN:241:ARG:HH21	1.73	0.53
45:FA:88:HIS:CE1	45:FA:90:GLU:HG2	2.43	0.53
45:FA:96:LYS:HG2	46:FB:1:MET:HE3	1.90	0.53
46:FD:118:ASP:HB3	46:FD:122:LYS:NZ	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FF:207:LEU:HB3	46:FF:225:LEU:HD22	1.91	0.53
45:FG:155:GLU:OE2	45:FG:197:HIS:NE2	2.41	0.53
46:FN:137:HIS:HE1	46:FN:139:LEU:HD21	1.72	0.53
46:FN:215:LEU:HD21	46:FN:273:LEU:HD12	1.90	0.53
46:GB:178:THR:HB	46:GB:181:GLU:HG3	1.90	0.53
45:GK:36:MET:HE2	45:GK:61:HIS:CE1	2.43	0.53
45:GM:288:VAL:HG11	45:GM:327:ASP:HB3	1.90	0.53
45:HA:10:GLY:O	45:HA:14:ILE:HG12	2.09	0.53
45:HC:195:LEU:O	45:HC:266:HIS:NE2	2.39	0.53
45:HC:210:TYR:HE1	45:HC:227:LEU:HD11	1.73	0.53
45:HC:238:LEU:HA	45:HC:318:MET:HE1	1.89	0.53
46:HF:163:ILE:HD12	46:HF:250:LEU:HD11	1.90	0.53
46:HF:257:LEU:HD11	46:HF:314:SER:HB2	1.91	0.53
45:HI:258:ASN:OD1	45:HI:352:LYS:NZ	2.41	0.53
46:HL:175:VAL:HG22	46:HL:205:GLU:HG3	1.91	0.53
45:HM:122:ILE:HD13	45:HM:157:LEU:HD21	1.89	0.53
45:IC:60:LYS:NZ	45:IC:85:GLN:O	2.41	0.53
46:JD:156:ARG:NH2	46:JD:197:ASP:OD1	2.42	0.53
45:JG:76:ASP:HA	45:JG:79:ARG:HD2	1.89	0.53
46:JH:341:PHE:HB3	46:JH:348:ASN:HD21	1.73	0.53
45:JK:181:VAL:HG13	45:JK:182:VAL:HG13	1.90	0.53
45:JM:136:LEU:HD22	45:JM:169:PHE:HE2	1.71	0.53
45:KK:1:MET:SD	45:KK:1:MET:N	2.66	0.53
45:LE:200:VAL:HG13	45:LE:268:MET:HE1	1.91	0.53
46:LF:86:ARG:HD2	46:MF:281:TYR:CD1	2.43	0.53
46:LH:215:LEU:HD11	46:LH:273:LEU:HB3	1.90	0.53
45:LI:346:TRP:CD1	46:LL:391:ARG:HG3	2.43	0.53
45:LM:174:SER:HB3	45:LM:207:GLU:OE2	2.09	0.53
46:MB:107:THR:HG1	46:MB:108:GLU:CD	2.17	0.53
46:MF:3:GLU:OE2	46:MF:127:CYS:HB2	2.08	0.53
45:MG:175:PRO:HB3	45:MG:390:ARG:HH21	1.73	0.53
45:MG:407:TRP:HE1	46:MH:258:ILE:HG13	1.72	0.53
45:NC:82:THR:HG23	45:NC:83:TYR:CD1	2.44	0.53
45:NI:224:TYR:HD1	45:NI:227:LEU:HD12	1.73	0.53
46:NJ:45:GLU:OE2	46:NJ:46:ARG:NH1	2.41	0.53
45:NK:372:MET:HG2	45:NK:373:ARG:HD3	1.89	0.53
45:NM:21:TRP:CZ2	45:NM:65:ALA:HB2	2.43	0.53
45:OA:348:PRO:HG2	46:OD:384:GLN:HE22	1.72	0.53
45:OC:221:ARG:HH22	46:OD:320:ARG:HH12	1.55	0.53
46:OF:101:TRP:CE3	46:OF:187:LEU:HD13	2.44	0.53
46:OH:318:ARG:HB3	46:OH:357:PRO:HA	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PA:154:LEU:HD22	45:PA:166:LYS:HD3	1.89	0.53
46:PD:99:ASN:OD1	46:PD:142:GLY:N	2.41	0.53
45:PE:211:ASP:OD2	45:PE:215:ARG:NE	2.34	0.53
45:PI:293:ASN:O	45:PI:297:GLU:HG2	2.09	0.53
46:PN:175:VAL:HG12	46:PN:205:GLU:HB3	1.91	0.53
46:QB:405:GLU:HG2	46:QB:406:MET:HE2	1.89	0.53
46:QD:152:ILE:HG23	46:QD:164:MET:HE1	1.91	0.53
45:QI:335:ILE:HA	45:QI:338:LYS:HE2	1.90	0.53
45:QM:396:ASP:OD1	45:QM:397:LEU:N	2.42	0.53
46:QN:226:ASN:HD21	49:QN:501:GDP:HN1	1.55	0.53
46:RB:221:THR:HG23	46:RB:224:ASP:H	1.72	0.53
46:RD:67:ASP:OD1	46:RD:68:LEU:N	2.41	0.53
46:RD:200:MET:SD	46:RD:266:PHE:HD2	2.31	0.53
46:RF:139:LEU:HD22	46:RF:170:VAL:HG22	1.90	0.53
46:RF:164:MET:HA	46:RF:164:MET:HE2	1.90	0.53
45:RG:260:VAL:HG23	46:RH:397:TRP:HH2	1.73	0.53
45:RI:155:GLU:HG2	45:RI:197:HIS:CD2	2.44	0.53
45:RI:318:MET:HB3	45:RI:376:CYS:SG	2.48	0.53
46:RJ:145:SER:HB2	46:RJ:188:SER:HB3	1.89	0.53
46:SF:12:CYS:O	46:SF:16:ILE:HG12	2.08	0.53
46:SH:6:HIS:O	46:SH:63:ALA:HA	2.07	0.53
46:SJ:58:ARG:HH21	46:TJ:281:TYR:HD1	1.55	0.53
46:TF:69:GLU:CD	46:TF:71:GLY:H	2.15	0.53
46:TJ:21:TRP:CE3	46:TJ:24:ILE:HD11	2.43	0.53
46:TL:73:MET:HA	46:TL:76:VAL:HG12	1.89	0.53
46:TN:260:PHE:HB2	46:TN:263:LEU:HD13	1.90	0.53
45:UE:387:VAL:HG12	45:UE:390:ARG:HH21	1.73	0.53
45:UG:223:THR:HG23	45:UG:225:THR:H	1.73	0.53
45:VC:263:PRO:HD3	46:VF:396:HIS:CD2	2.43	0.53
46:VF:201:VAL:O	46:VF:202:ILE:HD13	2.09	0.53
45:VG:101:ASN:HA	45:VG:144:GLY:H	1.72	0.53
46:VH:190:HIS:CD2	46:VH:411:ALA:HA	2.42	0.53
46:VL:47:ILE:HG21	46:VL:59:TYR:CE1	2.44	0.53
45:WA:103:PHE:HD2	45:WA:413:MET:HE1	1.73	0.53
45:WC:122:ILE:HD13	45:WC:125:LEU:HD21	1.90	0.53
45:WC:174:SER:HB2	45:WC:177:VAL:O	2.09	0.53
46:WD:19:LYS:HA	46:WD:22:GLU:HG3	1.90	0.53
46:WF:3:GLU:HB2	46:WF:127:CYS:SG	2.49	0.53
46:WF:209:ASP:OD1	46:WF:213:ARG:NE	2.39	0.53
2:0B:225:LYS:HD2	2:0B:232:ASP:HB2	1.91	0.53
7:0G:97:ASN:O	46:JN:359:LYS:NZ	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:0S:196:LEU:HD23	11:0S:199:LYS:HZ1	1.72	0.53
11:0S:277:GLN:HE22	46:WB:122:LYS:HE3	1.72	0.53
13:0U:69:TYR:CE2	13:0U:134:VAL:HG11	2.43	0.53
17:1F:135:ASN:OD1	17:1F:136:ARG:N	2.41	0.53
8:1H:257:GLU:HA	8:1H:260:ARG:HD2	1.91	0.53
19:1J:175:HIS:CD2	46:HH:48:ASN:HB3	2.44	0.53
19:1J:229:VAL:H	29:2G:94:ILE:HD13	1.73	0.53
21:1L:393:HIS:HA	21:1L:396:ASN:ND2	2.24	0.53
21:1L:658:ARG:HG3	46:BF:41:ASP:HB3	1.91	0.53
22:1M:288:LEU:C	22:1M:290:GLU:H	2.15	0.53
22:1M:325:ASP:HB3	22:1M:328:ILE:HG12	1.91	0.53
9:1N:397:ASN:OD1	9:1N:398:LEU:N	2.41	0.53
11:1S:154:ASN:HB2	11:1S:187:PHE:CZ	2.43	0.53
12:1T:7:PHE:HB3	12:1T:38:LYS:HE3	1.90	0.53
16:2B:72:TYR:HH	16:2B:77:ASP:H	1.53	0.53
4:2D:6:ARG:HH22	46:CJ:44:LEU:C	2.17	0.53
31:2I:94:PRO:HG2	31:2I:96:TRP:HZ3	1.74	0.53
21:2L:571:ALA:HA	21:2L:579:VAL:HG22	1.90	0.53
23:2O:166:ILE:O	23:2O:170:LYS:HG2	2.08	0.53
25:2R:387:ASP:OD1	25:2R:388:GLU:N	2.41	0.53
12:2T:215:ASN:O	12:2T:216:LYS:HG3	2.08	0.53
12:2T:278:ALA:O	12:2T:279:GLU:HG2	2.09	0.53
12:2T:285:ARG:HH22	13:2U:52:ARG:H	1.56	0.53
1:3A:136:ASN:ND2	46:AN:245:GLN:OE1	2.41	0.53
27:3C:121:ALA:HB1	27:3C:164:LEU:HB3	1.90	0.53
21:3L:92:GLY:H	21:3L:95:GLN:HB2	1.73	0.53
23:3O:457:GLN:HB3	23:3O:461:LYS:NZ	2.23	0.53
36:5D:89:TYR:CD2	45:NM:364:PRO:HB3	2.41	0.53
39:6F:123:TYR:O	39:6F:124:ARG:HB2	2.08	0.53
46:AD:202:ILE:HD11	46:AD:268:ILE:HD11	1.91	0.53
45:AI:241:SER:OG	45:AI:250:VAL:O	2.19	0.53
46:BD:285:THR:HB	46:BD:287:PRO:HD2	1.90	0.53
46:BF:390:ARG:O	46:BF:392:LYS:NZ	2.42	0.53
45:BG:88:HIS:O	45:BG:91:GLN:HG2	2.09	0.53
45:BI:257:THR:HG22	46:BL:397:TRP:CZ3	2.43	0.53
46:BJ:232:ALA:HB1	46:BJ:268:ILE:HD12	1.91	0.53
46:CF:318:ARG:HH11	46:CF:358:PRO:HG3	1.73	0.53
45:CI:3:GLU:OE2	45:CI:131:GLY:N	2.40	0.53
46:CN:3:GLU:HG3	46:CN:62:ARG:NH1	2.23	0.53
45:DK:223:THR:HG23	45:DK:225:THR:H	1.73	0.53
46:DL:327:ASP:HA	46:DL:330:MET:HE2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EE:36:MET:HA	45:EE:36:MET:HE3	1.90	0.53
46:EL:27:GLU:HA	46:EL:359:LYS:HD2	1.91	0.53
46:FB:32:PRO:O	46:FB:83:GLN:NE2	2.42	0.53
45:FC:280:LYS:HA	45:FC:283:HIS:CD2	2.33	0.53
46:FH:6:HIS:NE2	46:FH:8:GLN:OE1	2.41	0.53
46:FL:183:TYR:HE2	46:FL:388:MET:HB3	1.72	0.53
45:FM:141:VAL:HG11	45:FM:172:TYR:HD1	1.74	0.53
46:FN:116:VAL:HA	46:FN:119:VAL:HG12	1.91	0.53
46:HB:303:ALA:HB2	46:HB:377:MET:HE1	1.90	0.53
45:HE:105:ARG:NH2	45:HE:411:GLU:OE2	2.41	0.53
45:IA:195:LEU:HD21	45:IA:264:ARG:HH21	1.74	0.53
46:IN:186:THR:HA	46:IN:189:VAL:HG12	1.89	0.53
45:JA:250:VAL:HG11	45:JA:318:MET:HE1	1.90	0.53
45:JA:345:ASP:OD1	45:JA:346:TRP:N	2.42	0.53
45:JK:34:GLY:HA3	45:JK:60:LYS:HG3	1.90	0.53
46:KD:239:CYS:SG	46:KD:247:ASN:HA	2.49	0.53
45:KG:221:ARG:HA	46:KH:324:LYS:HZ1	1.73	0.53
45:KM:7:ILE:HB	45:KM:137:VAL:HG12	1.90	0.53
46:LB:27:GLU:OE2	46:LB:318:ARG:NH2	2.31	0.53
45:ME:69:ASP:OD2	45:ME:70:LEU:N	2.41	0.53
45:MI:214:ARG:HH22	46:MJ:324:LYS:HZ2	1.57	0.53
45:NC:77:GLU:HA	45:NC:80:THR:HG22	1.90	0.53
46:ND:156:ARG:NH1	46:ND:195:ASN:HA	2.23	0.53
45:NE:79:ARG:O	45:NE:84:ARG:HG2	2.08	0.53
46:NF:289:LEU:HD13	46:NF:365:VAL:HG23	1.91	0.53
46:NF:386:THR:OG1	46:NF:390:ARG:NH2	2.41	0.53
45:NM:8:HIS:HB2	45:NM:67:PHE:HD1	1.71	0.53
45:OC:251:ASP:OD1	45:OC:252:ILE:N	2.41	0.53
46:OH:178:THR:HB	46:OH:181:GLU:HG2	1.90	0.53
45:OK:9:VAL:HG13	45:OK:139:ASN:HB3	1.90	0.53
45:OK:219:ILE:HG22	45:OK:222:PRO:HD3	1.90	0.53
46:PH:150:LEU:O	46:PH:154:LYS:HG2	2.08	0.53
46:QB:178:THR:HB	46:QB:181:GLU:HG3	1.91	0.53
45:QC:386:GLU:O	45:QC:390:ARG:HG2	2.09	0.53
46:QD:1:MET:HE1	45:QE:96:LYS:HD3	1.90	0.53
45:QE:296:PHE:HE2	45:QE:335:ILE:HG21	1.73	0.53
45:QG:206:ASN:OD1	47:QG:501:GTP:N2	2.38	0.53
45:QG:251:ASP:HB3	45:QG:253:THR:HG22	1.91	0.53
45:QG:349:THR:HG23	46:QH:179:VAL:HA	1.90	0.53
46:QH:48:ASN:O	46:QH:62:ARG:NH1	2.42	0.53
46:QH:285:THR:HG22	46:QH:287:PRO:HD2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QJ:70:PRO:HG3	46:QJ:92:PHE:HB2	1.91	0.53
45:QK:88:HIS:HE1	45:QK:90:GLU:HB2	1.72	0.53
45:QM:4:VAL:O	45:QM:64:ARG:NH1	2.41	0.53
45:QM:269:LEU:HD12	45:QM:301:MET:HE2	1.90	0.53
46:RB:284:LEU:HD11	46:RB:362:LYS:HB2	1.90	0.53
46:RH:344:TRP:CD1	45:RI:401:LYS:HZ1	2.27	0.53
46:RN:97:ALA:HA	46:RN:103:LYS:HG2	1.90	0.53
45:SE:206:ASN:OD1	47:SE:501:GTP:N2	2.41	0.53
45:SK:108:TYR:HA	45:SK:112:LYS:HE3	1.89	0.53
46:SN:226:ASN:HD21	49:SN:501:GDP:HN1	1.56	0.53
46:TD:282:ARG:NH2	46:TD:288:GLU:OE2	2.42	0.53
45:TE:422:ARG:NH2	45:TE:425:LEU:HD12	2.23	0.53
46:TF:200:MET:CE	46:TF:268:ILE:HD13	2.38	0.53
45:TG:88:HIS:HA	45:UG:283:HIS:CE1	2.43	0.53
46:TL:324:LYS:HG2	45:TM:210:TYR:CE2	2.42	0.53
45:TM:35:GLN:HE22	45:TM:59:GLY:HA2	1.73	0.53
45:TM:55:GLU:HG3	45:TM:57:GLY:H	1.73	0.53
46:TN:372:THR:HA	46:TN:422:TYR:HE2	1.72	0.53
46:UN:318:ARG:HH22	46:UN:361:LEU:HB2	1.73	0.53
45:VA:174:SER:HB2	45:VA:177:VAL:O	2.07	0.53
45:VA:287:SER:O	45:VA:291:ILE:HG12	2.09	0.53
46:VB:207:LEU:HB3	46:VB:225:LEU:HD22	1.90	0.53
45:VC:21:TRP:CZ2	45:VC:65:ALA:HB2	2.43	0.53
45:VC:324:VAL:HG11	45:VC:326:LYS:HZ2	1.73	0.53
46:VH:295:ASP:OD2	46:VH:297:LYS:HG2	2.07	0.53
46:VJ:12:CYS:O	46:VJ:16:ILE:HG12	2.09	0.53
45:VM:55:GLU:HG3	45:VM:57:GLY:H	1.72	0.53
46:VN:2:ARG:HA	46:VN:131:GLN:NE2	2.23	0.53
46:WH:406:MET:O	46:WH:410:GLU:HG2	2.09	0.53
46:WN:65:LEU:HD22	46:WN:90:PHE:CE1	2.42	0.53
2:0B:26:GLN:NE2	2:0B:28:PHE:HB3	2.23	0.53
2:0B:320:LEU:HD23	2:0B:322:ARG:HH12	1.74	0.53
4:0D:123:SER:OG	4:0D:124:ASN:N	2.42	0.53
8:0H:373:GLU:OE2	8:0H:374:ARG:NH1	2.42	0.53
9:0N:93:ILE:HG21	9:0N:99:ALA:HB3	1.90	0.53
11:0S:272:GLN:NE2	11:0S:273:ILE:O	2.41	0.53
13:0U:350:ARG:O	13:0U:352:ARG:NH1	2.42	0.53
16:1B:62:THR:O	16:1B:65:LEU:N	2.41	0.53
16:1B:394:ASP:OD1	16:1B:397:ARG:NH2	2.40	0.53
19:1J:216:GLN:HB2	46:IJ:360:GLY:O	2.07	0.53
19:1J:353:TYR:HB2	19:1J:360:GLN:HE22	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:1L:894:ARG:HH12	45:CC:365:GLY:H	1.55	0.53
23:1O:185:ARG:HD3	46:UD:280:GLN:HG3	1.90	0.53
23:1O:192:TYR:HB2	46:UD:276:ARG:HH12	1.72	0.53
24:1P:280:ASN:HA	24:1P:283:LEU:HB3	1.89	0.53
12:1T:56:MET:HG2	12:1T:209:PHE:HZ	1.73	0.53
16:2B:10:ILE:O	16:2B:14:ILE:HG12	2.08	0.53
4:2D:212:ASN:ND2	34:5R:433:GLN:O	2.42	0.53
5:2E:92:LEU:HD13	5:2E:96:ARG:HB2	1.89	0.53
31:2I:78:PRO:HB3	45:GE:298:PRO:HD3	1.91	0.53
21:2L:750:ASN:HD21	46:BL:320:ARG:HH22	1.55	0.53
23:2O:268:ASN:O	23:2O:272:ILE:HG12	2.08	0.53
24:2P:495:PRO:O	24:2P:498:LYS:HG2	2.08	0.53
14:2V:18:PRO:O	14:2V:19:LYS:HD3	2.09	0.53
14:2V:147:LYS:HG2	14:2V:149:MET:HE1	1.90	0.53
14:2V:236:GLY:HA2	14:2V:239:ARG:NE	2.24	0.53
15:2X:87:ASP:OD2	15:2X:91:LYS:NZ	2.42	0.53
1:3A:40:GLY:O	1:3A:41:THR:OG1	2.22	0.53
23:3O:354:LYS:O	23:3O:357:ARG:HD3	2.08	0.53
25:3R:312:GLN:CG	25:3R:313:PRO:HD3	2.38	0.53
12:3T:23:ASP:OD1	12:3T:25:GLN:NE2	2.37	0.53
13:3U:7:ILE:HD11	13:3U:602:TRP:CH2	2.44	0.53
27:4C:103:ARG:HH22	27:4C:182:SER:C	2.16	0.53
33:4F:222:HIS:NE2	46:HN:41:ASP:O	2.42	0.53
36:5B:82:ASP:HA	36:5B:85:ARG:HH12	1.72	0.53
37:5G:35:LEU:HD13	37:5G:36:PRO:HD2	1.91	0.53
39:6F:33:PRO:HG2	39:6F:66:ASN:HA	1.90	0.53
45:AA:171:ILE:O	45:AA:171:ILE:HG13	2.08	0.53
46:AL:66:MET:HE1	46:AL:147:MET:HG2	1.91	0.53
46:AN:222:TYR:O	46:AN:226:ASN:ND2	2.30	0.53
45:BE:263:PRO:HD3	46:BH:396:HIS:NE2	2.24	0.53
46:BL:207:LEU:HB3	46:BL:225:LEU:HD22	1.89	0.53
45:BM:188:ILE:HG13	45:BM:425:LEU:HD11	1.90	0.53
46:CB:317:PHE:CD2	46:CB:365:VAL:HG22	2.43	0.53
45:CG:192:HIS:ND1	45:CG:424:ASP:OD2	2.42	0.53
45:DA:296:PHE:CE2	45:DA:335:ILE:HG13	2.43	0.53
46:DB:350:LYS:NZ	45:DC:180:ALA:HA	2.22	0.53
46:DD:54:ALA:HA	46:ED:283:ALA:HB2	1.90	0.53
46:DD:163:ILE:O	46:DD:164:MET:HE2	2.09	0.53
45:DE:51:THR:HG21	45:DE:243:ARG:HB3	1.91	0.53
45:DG:36:MET:SD	45:DG:37:PRO:HD2	2.48	0.53
46:DJ:318:ARG:HH11	46:DJ:358:PRO:HG3	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ED:378:PHE:HA	46:ED:381:VAL:HG12	1.90	0.53
46:EH:318:ARG:HH11	46:EH:358:PRO:HG3	1.74	0.53
45:EK:195:LEU:HD21	45:EK:428:LEU:HD21	1.90	0.53
45:EM:184:PRO:O	45:EM:188:ILE:HG12	2.08	0.53
45:EM:426:ALA:HB1	45:EM:430:LYS:NZ	2.24	0.53
46:FN:268:ILE:HD12	46:FN:270:PHE:HE2	1.72	0.53
46:GD:190:HIS:CD2	46:GD:411:ALA:HA	2.43	0.53
45:GG:276:ILE:HD11	45:GG:280:LYS:HG3	1.89	0.53
46:GJ:257:LEU:HD21	46:GJ:314:SER:HB2	1.91	0.53
45:HA:242:LEU:HD11	45:HA:252:ILE:HG12	1.89	0.53
46:HF:121:ARG:NH2	46:HF:158:GLU:OE2	2.34	0.53
45:HI:322:ASP:OD1	45:HI:373:ARG:NH1	2.42	0.53
46:HL:163:ILE:HD11	46:HL:251:ARG:HH11	1.74	0.53
46:HL:178:THR:HG22	46:HL:180:VAL:H	1.72	0.53
45:HM:88:HIS:O	45:HM:91:GLN:HG2	2.09	0.53
46:HN:118:ASP:HB3	46:HN:122:LYS:NZ	2.23	0.53
46:IB:86:ARG:NE	46:IB:87:PRO:HD2	2.19	0.53
46:IL:128:ASP:OD1	46:IL:129:CYS:N	2.41	0.53
45:JG:420:GLU:OE2	45:NG:308:ARG:NH1	2.32	0.53
46:JJ:106:TYR:CD2	46:JJ:403:MET:HE1	2.44	0.53
46:JJ:150:LEU:O	46:JJ:154:LYS:HG2	2.08	0.53
46:JJ:267:MET:HG3	46:JJ:299:MET:HE2	1.90	0.53
45:JM:170:THR:O	45:JM:204:LEU:HB2	2.08	0.53
45:KC:345:ASP:OD1	45:KC:346:TRP:N	2.41	0.53
45:KG:371:VAL:HG12	45:KG:373:ARG:H	1.72	0.53
46:KH:9:GLY:HA2	46:KH:66:MET:O	2.09	0.53
46:KL:108:GLU:HA	46:KL:111:GLU:OE2	2.08	0.53
46:KL:304:ASP:OD1	46:KL:306:ARG:NH1	2.41	0.53
45:KM:251:ASP:HB2	45:KM:253:THR:HG22	1.91	0.53
45:LA:220:GLU:O	46:LB:324:LYS:NZ	2.29	0.53
46:LF:5:VAL:HG12	46:LF:62:ARG:HD3	1.90	0.53
46:LH:20:PHE:HA	46:LH:230:SER:OG	2.07	0.53
45:ME:75:ILE:O	45:ME:79:ARG:HG2	2.09	0.53
46:MF:22:GLU:HG2	46:MF:81:PHE:HD2	1.74	0.53
45:MG:260:VAL:HB	46:MJ:397:TRP:CH2	2.43	0.53
45:MM:145:THR:HG22	47:MM:501:GTP:PG	2.49	0.53
46:NB:103:LYS:NZ	46:NB:401:GLU:OE2	2.41	0.53
46:NB:248:SER:HA	46:NB:252:LYS:HD2	1.91	0.53
45:NI:17:GLY:HA2	45:NI:20:CYS:SG	2.49	0.53
45:NK:335:ILE:HG22	45:NK:341:ILE:HD11	1.90	0.53
46:OB:329:GLN:HA	46:OB:332:ASN:HD21	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OD:318:ARG:HG2	46:OD:357:PRO:HA	1.89	0.53
46:OJ:148:GLY:O	46:OJ:152:ILE:HG12	2.09	0.53
46:OJ:329:GLN:HA	46:OJ:332:ASN:HD21	1.73	0.53
46:ON:148:GLY:O	46:ON:152:ILE:HG12	2.09	0.53
45:PM:101:ASN:HA	45:PM:144:GLY:H	1.74	0.53
45:PM:394:LYS:NZ	46:PN:347:ASN:OD1	2.41	0.53
45:QA:316:SER:O	45:QA:378:ILE:HG22	2.09	0.53
45:QE:36:MET:SD	45:QE:37:PRO:HD2	2.48	0.53
45:QI:332:ILE:HA	45:QI:335:ILE:HG22	1.91	0.53
45:QK:231:ILE:O	45:QK:235:ILE:HG12	2.08	0.53
46:RD:262:ARG:HG3	46:RD:263:LEU:HD12	1.91	0.53
45:RG:238:LEU:HD21	45:RG:255:PHE:HE2	1.74	0.53
46:RH:327:ASP:HA	46:RH:330:MET:HE3	1.90	0.53
45:RI:69:ASP:O	45:RI:94:SER:HA	2.07	0.53
45:RK:12:GLY:HA2	45:RK:15:GLN:HE21	1.73	0.53
45:RK:49:PHE:HB2	45:RK:53:PHE:HD1	1.74	0.53
45:SE:255:PHE:HA	45:SE:259:LEU:HD23	1.91	0.53
45:SK:83:TYR:H	45:SK:84:ARG:HH11	1.57	0.53
46:TH:318:ARG:HB3	46:TH:357:PRO:HA	1.90	0.53
45:TM:389:SER:O	45:TM:393:HIS:ND1	2.32	0.53
45:UC:101:ASN:ND2	47:UC:501:GTP:O1G	2.41	0.53
45:UC:103:PHE:HD2	45:UC:413:MET:HE1	1.73	0.53
46:UD:16:ILE:HD12	46:UD:229:VAL:HG21	1.89	0.53
45:UE:75:ILE:HG23	45:UE:92:LEU:HD23	1.90	0.53
46:UF:131:GLN:C	46:UF:162:ARG:HE	2.15	0.53
45:UG:123:ARG:HE	45:UG:124:LYS:HE2	1.73	0.53
45:UG:292:THR:HG21	45:UG:331:SER:HB3	1.90	0.53
46:UL:309:ARG:NH2	46:UL:426:GLN:O	2.29	0.53
45:VC:141:VAL:HG11	45:VC:172:TYR:CD1	2.44	0.53
46:VD:164:MET:SD	46:VD:166:THR:OG1	2.63	0.53
45:VI:8:HIS:HB2	45:VI:67:PHE:HD1	1.73	0.53
46:VL:148:GLY:O	46:VL:152:ILE:HG12	2.08	0.53
45:VM:340:THR:HG23	45:VM:341:ILE:HG13	1.90	0.53
46:VN:173:PRO:HD3	46:VN:380:ARG:NH1	2.23	0.53
46:VN:386:THR:O	46:VN:390:ARG:HG2	2.09	0.53
45:WE:287:SER:O	45:WE:290:GLU:HG2	2.09	0.53
9:0N:217:TRP:CB	9:0N:270:ASN:HD21	2.21	0.53
12:0T:121:ALA:HB3	12:0T:199:ARG:HG2	1.90	0.53
20:1K:120:LYS:O	20:1K:123:LYS:HG2	2.08	0.53
21:1L:314:ASN:HB2	46:BH:320:ARG:HH22	1.74	0.53
22:1M:278:GLU:HB2	22:1M:291:PHE:HZ	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:1N:89:ILE:HG13	9:1N:100:TYR:CE2	2.44	0.53
11:1S:213:ILE:HA	11:1S:216:LYS:HZ2	1.74	0.53
12:1T:73:GLU:N	12:1T:107:ARG:O	2.31	0.53
12:1T:120:LEU:HA	12:1T:199:ARG:HG3	1.91	0.53
27:2C:157:PHE:HA	27:2C:173:TYR:CZ	2.44	0.53
22:2M:207:ASP:OD1	22:2M:208:SER:N	2.42	0.53
23:2O:226:GLU:O	23:2O:229:GLU:HG3	2.08	0.53
24:2P:391:ARG:HA	24:2P:394:GLN:OE1	2.09	0.53
12:2T:40:GLN:O	12:2T:44:ILE:HG12	2.09	0.53
12:2T:241:TRP:NE1	12:2T:247:ASN:HD22	2.06	0.53
13:2U:172:ILE:HG13	13:2U:185:LEU:HB3	1.90	0.53
27:3C:203:LEU:O	27:3C:268:ARG:NH2	2.38	0.53
23:3O:471:LEU:HB3	23:3O:475:GLN:HE22	1.74	0.53
23:3O:482:LYS:HD3	23:3O:482:LYS:C	2.34	0.53
33:4F:175:ASP:OD1	33:4F:176:LYS:N	2.42	0.53
10:4Q:70:GLY:HA2	10:4Q:150:GLU:OE2	2.07	0.53
37:5H:123:ARG:HG3	45:OM:372:MET:HE1	1.90	0.53
40:6G:133:ASN:N	40:6G:134:PRO:HD3	2.24	0.53
45:AA:259:LEU:HD11	45:AA:316:SER:HB2	1.91	0.53
45:AA:337:THR:O	45:AA:339:ARG:NH1	2.42	0.53
45:AC:164:LYS:O	45:AC:166:LYS:NZ	2.41	0.53
46:AF:178:THR:HB	46:AF:181:GLU:HG3	1.89	0.53
46:AH:55:THR:HG23	46:BH:283:ALA:HA	1.91	0.53
45:AI:184:PRO:O	45:AI:188:ILE:HG12	2.09	0.53
46:AJ:84:LEU:O	46:AJ:86:ARG:NH1	2.41	0.53
46:BB:221:THR:HG23	46:BB:224:ASP:H	1.73	0.53
46:BD:190:HIS:CD2	46:BD:411:ALA:HA	2.43	0.53
45:BG:275:ILE:HD13	45:BG:368:LEU:HD11	1.91	0.53
46:BH:113:ILE:HG12	46:BH:117:LEU:HG	1.91	0.53
45:BK:115:VAL:HG11	45:BK:152:LEU:HD23	1.91	0.53
46:CN:91:VAL:HG21	46:CN:116:VAL:HB	1.89	0.53
46:DF:209:ASP:OD1	46:DF:213:ARG:NE	2.41	0.53
45:DG:319:TYR:HB3	45:DG:323:VAL:HG21	1.90	0.53
46:DH:256:ASN:HB3	46:DH:257:LEU:HD12	1.90	0.53
46:DJ:289:LEU:HD13	46:DJ:365:VAL:HG23	1.90	0.53
46:DJ:304:ASP:OD1	46:DJ:306:ARG:NH1	2.41	0.53
45:DM:311:LYS:N	45:DM:382:THR:OG1	2.41	0.53
45:DM:395:PHE:HZ	45:DM:418:PHE:HB3	1.74	0.53
46:DN:100:ASN:HD21	46:DN:102:ALA:HB3	1.74	0.53
46:EB:21:TRP:CZ3	46:EB:61:PRO:HB3	2.44	0.53
45:EC:223:THR:HG23	45:EC:225:THR:H	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EF:122:LYS:HD2	46:FF:291:GLN:NE2	2.24	0.53
45:EK:56:THR:HG21	45:EK:60:LYS:HG3	1.91	0.53
46:EL:3:GLU:HG3	46:EL:62:ARG:NH1	2.23	0.53
46:FH:66:MET:HA	46:FH:91:VAL:O	2.09	0.53
46:FH:178:THR:HG22	46:FH:180:VAL:H	1.74	0.53
46:FJ:99:ASN:HA	46:FJ:142:GLY:H	1.72	0.53
45:HE:184:PRO:O	45:HE:188:ILE:HG12	2.09	0.53
45:HE:407:TRP:HZ2	46:HF:258:ILE:HD11	1.73	0.53
46:HH:86:ARG:HB3	46:HH:89:ASN:OD1	2.09	0.53
46:HH:309:ARG:NH2	46:HH:341:PHE:O	2.42	0.53
46:HN:139:LEU:HD13	46:HN:168:SER:HB3	1.90	0.53
46:HN:313:ALA:HB1	46:HN:367:PHE:HE1	1.72	0.53
46:IH:167:PHE:CE2	46:IH:233:MET:HG2	2.44	0.53
45:II:147:SER:HB2	45:II:190:SER:HB3	1.91	0.53
46:IJ:44:LEU:HA	46:IJ:47:ILE:HG23	1.91	0.53
46:IJ:187:LEU:HD11	46:IJ:408:PHE:HE2	1.73	0.53
47:IK:501:GTP:O1G	46:IL:252:LYS:NZ	2.42	0.53
45:IM:36:MET:SD	45:IM:37:PRO:HD2	2.49	0.53
45:IM:207:GLU:HA	45:IM:210:TYR:HB2	1.90	0.53
45:JG:33:ASP:OD2	45:JG:33:ASP:N	2.42	0.53
46:JJ:9:GLY:HA2	46:JJ:66:MET:O	2.09	0.53
45:JK:230:LEU:O	45:JK:234:VAL:HG23	2.09	0.53
46:KJ:156:ARG:HH22	46:KJ:197:ASP:CG	2.15	0.53
46:KJ:208:TYR:HE2	46:KJ:225:LEU:HD11	1.74	0.53
45:KM:75:ILE:HD11	45:KM:92:LEU:HB3	1.91	0.53
45:LK:147:SER:HB2	45:LK:190:SER:HB3	1.89	0.53
45:MC:147:SER:HB2	45:MC:190:SER:HB3	1.90	0.53
45:MI:171:ILE:O	45:MI:171:ILE:HG13	2.07	0.53
45:MM:427:ALA:HA	45:MM:430:LYS:HG2	1.91	0.53
46:NH:285:THR:N	46:NH:288:GLU:OE2	2.40	0.53
46:NJ:19:LYS:O	46:NJ:22:GLU:HG3	2.09	0.53
46:NJ:60:VAL:HG11	46:NJ:86:ARG:HH21	1.74	0.53
45:OA:251:ASP:OD2	45:OA:253:THR:HG22	2.08	0.53
45:OC:221:ARG:HH22	46:OD:320:ARG:HH22	1.56	0.53
45:OE:141:VAL:HG22	45:OE:187:SER:HA	1.90	0.53
46:OF:253:LEU:O	46:OF:257:LEU:HB2	2.08	0.53
45:OG:5:ILE:HD11	45:OG:132:LEU:HD11	1.90	0.53
45:OI:222:PRO:HG2	46:OJ:324:LYS:HE2	1.90	0.53
45:OK:147:SER:HB2	45:OK:190:SER:HB2	1.89	0.53
46:PB:221:THR:HG23	46:PB:224:ASP:H	1.74	0.53
46:PF:207:LEU:HD13	46:PF:225:LEU:HB3	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QB:48:ASN:O	46:QB:62:ARG:NH1	2.41	0.53
46:QB:260:PHE:HB2	46:QB:263:LEU:HD13	1.90	0.53
46:QD:169:VAL:HG12	46:QD:202:ILE:HB	1.90	0.53
46:QF:11:GLN:HA	46:QF:72:THR:HG21	1.90	0.53
45:RA:55:GLU:HG3	45:RA:57:GLY:H	1.74	0.53
45:RG:88:HIS:CG	45:RG:121:ARG:HH22	2.26	0.53
46:RH:217:LEU:HD23	46:RH:219:THR:H	1.73	0.53
46:RJ:204:ASN:HD21	49:RJ:501:GDP:HN22	1.57	0.53
46:RJ:375:GLN:HG3	46:RJ:419:VAL:HG13	1.91	0.53
45:SI:259:LEU:HD21	45:SI:316:SER:HB3	1.90	0.53
45:TA:292:THR:HG21	45:TA:331:SER:HB3	1.91	0.53
46:TB:268:ILE:HG23	46:TB:300:MET:HE2	1.91	0.53
45:TC:11:GLN:H	47:TC:501:GTP:PB	2.31	0.53
46:TJ:148:GLY:O	46:TJ:152:ILE:HG12	2.07	0.53
45:TM:326:LYS:HZ1	46:TN:219:THR:HA	1.74	0.53
45:UA:167:LEU:HG	45:UA:200:VAL:HB	1.91	0.53
46:UB:51:TYR:HB3	46:UB:59:TYR:HB3	1.91	0.53
45:UG:205:ASP:N	45:UG:205:ASP:OD2	2.41	0.53
46:UJ:117:LEU:HA	46:UJ:120:VAL:HG12	1.90	0.53
46:UJ:256:ASN:HB3	46:UJ:350:LYS:HE3	1.89	0.53
46:VF:417:ASP:O	46:VF:421:GLU:HG3	2.08	0.53
46:VH:67:ASP:OD1	46:VH:68:LEU:N	2.41	0.53
46:VH:209:ASP:OD2	46:VH:213:ARG:NH1	2.42	0.53
45:VK:10:GLY:O	45:VK:14:ILE:HG12	2.09	0.53
46:VN:118:ASP:OD1	46:VN:121:ARG:NH2	2.30	0.53
45:WA:116:ASP:HA	45:WA:119:LEU:HG	1.90	0.53
45:WC:208:ALA:O	45:WC:212:ILE:HG12	2.09	0.53
45:WE:114:ILE:HD12	45:WE:117:LEU:HD12	1.91	0.53
46:WF:174:LYS:HE2	46:WF:205:GLU:OE1	2.08	0.53
46:WJ:164:MET:SD	46:WJ:196:ALA:HA	2.49	0.53
45:WK:132:LEU:O	45:WK:164:LYS:NZ	2.33	0.53
46:WL:409:THR:O	46:WL:412:GLU:HG3	2.09	0.53
45:WM:340:THR:HG23	45:WM:341:ILE:HG13	1.91	0.53
46:WN:237:THR:HG23	46:WN:241:ARG:HE	1.73	0.53
45:CE:136:LEU:HD23	45:CE:167:LEU:HB2	1.91	0.53
2:0B:59:VAL:HB	2:0B:61:ARG:HH12	1.73	0.53
4:0D:53:ILE:HD11	4:0D:70:GLN:HG2	1.90	0.53
4:0D:170:PRO:HA	45:EC:84:ARG:HH21	1.73	0.53
4:0D:225:ARG:CZ	34:7R:566:PHE:HB2	2.38	0.53
6:0F:188:ILE:HD12	45:EE:89:PRO:HB3	1.91	0.53
8:0H:374:ARG:O	8:0H:377:GLU:HG2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:0Q:81:LYS:HD3	10:0Q:129:TRP:NE1	2.24	0.53
4:1D:224:ARG:HH11	34:4R:493:GLY:HA3	1.72	0.53
5:1E:25:ARG:HB3	5:1E:167:TYR:HE1	1.74	0.53
7:1G:132:ARG:HH12	45:JA:82:THR:HB	1.73	0.53
8:1H:227:GLN:HE22	8:1H:232:GLN:HE22	1.57	0.53
8:1H:319:GLU:O	8:1H:322:MET:N	2.42	0.53
18:1I:197:THR:O	18:1I:200:GLU:HG2	2.08	0.53
24:1P:152:VAL:HG13	24:2P:478:TRP:CZ3	2.44	0.53
24:1P:222:LEU:C	24:1P:224:GLU:H	2.17	0.53
24:1P:341:LEU:HD13	45:TC:364:PRO:HD3	1.91	0.53
10:1Q:83:LEU:HD11	10:1Q:161:ARG:NH1	2.24	0.53
13:1U:51:LEU:HD23	13:1U:87:TRP:CD2	2.44	0.53
13:1U:81:GLN:HB3	13:1U:99:LYS:HD2	1.90	0.53
13:1U:441:MET:O	13:1U:442:LYS:HD2	2.08	0.53
26:1W:161:ASN:O	26:1W:165:ILE:HG12	2.09	0.53
27:2C:255:ASN:ND2	27:2C:270:LEU:HD13	2.23	0.53
30:2H:200:TYR:CD2	45:AC:77:GLU:HG3	2.44	0.53
31:2I:83:ARG:NH1	45:GE:299:ALA:HA	2.24	0.53
9:2N:8:ARG:HH21	46:IB:53:GLU:HB3	1.74	0.53
23:2O:228:GLN:O	23:2O:231:GLU:HG3	2.08	0.53
25:2R:422:LYS:HE3	25:2R:498:ARG:HB3	1.91	0.53
11:2S:11:THR:O	11:2S:15:ILE:HD12	2.08	0.53
21:3L:31:ILE:HD12	21:3L:34:LEU:HB2	1.89	0.53
21:3L:129:SER:OG	21:3L:132:GLU:O	2.22	0.53
23:3O:427:LEU:HD11	45:UG:278:ALA:HB1	1.90	0.53
12:3T:4:ASP:HA	12:3T:7:PHE:CD2	2.43	0.53
13:3U:303:TYR:HB3	13:3U:305:ILE:HD11	1.91	0.53
13:3U:512:ARG:HB3	13:3U:530:GLY:HA3	1.91	0.53
34:4R:593:ASP:OD2	34:4R:597:ASN:N	2.40	0.53
15:4X:2:LYS:HB2	45:LI:245:ASP:HB3	1.91	0.53
36:5B:21:GLN:O	36:5B:62:PRO:HD3	2.08	0.53
37:5H:117:ILE:HG22	37:5H:119:GLU:H	1.73	0.53
34:5R:278:TYR:HD1	34:5R:285:THR:HB	1.74	0.53
41:6H:319:MET:HB2	41:6H:323:TYR:CZ	2.43	0.53
10:6Q:7:GLN:HB3	10:6Q:73:LEU:HD11	1.91	0.53
34:6R:272:ASN:ND2	34:6R:274:TYR:OH	2.41	0.53
46:AB:100:ASN:HD22	46:AB:103:LYS:HB2	1.73	0.53
46:AD:389:PHE:O	46:AD:392:LYS:NZ	2.39	0.53
45:AE:11:GLN:NE2	46:AF:245:GLN:O	2.41	0.53
45:AG:227:LEU:O	45:AG:231:ILE:HD12	2.09	0.53
45:AI:9:VAL:HG12	45:AI:68:LEU:HB2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AM:387:VAL:HG12	45:AM:390:ARG:HH21	1.73	0.53
45:BA:191:THR:HA	45:BA:194:LEU:HG	1.90	0.53
45:BE:1:MET:HE3	45:BE:2:ARG:HG3	1.90	0.53
45:BG:71:GLU:HG3	45:BG:98:ASP:HB2	1.89	0.53
46:BL:67:ASP:OD1	46:BL:68:LEU:N	2.42	0.53
46:BN:221:THR:HG23	46:BN:224:ASP:H	1.73	0.53
46:CD:149:THR:HA	46:CD:152:ILE:HD12	1.91	0.53
46:CF:132:GLY:HA3	46:CF:163:ILE:HG22	1.90	0.53
46:CF:141:GLY:O	46:CF:145:SER:HB2	2.09	0.53
45:CG:155:GLU:HG3	45:CG:156:ARG:NH1	2.24	0.53
45:CI:121:ARG:HH12	45:CI:124:LYS:HG3	1.73	0.53
46:CJ:304:ASP:OD2	46:CJ:306:ARG:HG2	2.09	0.53
45:CM:10:GLY:O	45:CM:14:ILE:HG12	2.08	0.53
46:CN:5:VAL:HG12	46:CN:62:ARG:HD3	1.91	0.53
46:CN:54:ALA:HB3	46:CN:58:ARG:HG2	1.91	0.53
46:DH:350:LYS:NZ	46:DH:352:SER:OG	2.42	0.53
46:DN:3:GLU:HB2	46:DN:62:ARG:HH22	1.74	0.53
46:DN:3:GLU:HB2	46:DN:62:ARG:NH2	2.23	0.53
46:EB:296:ALA:HB2	46:EB:306:ARG:HH22	1.74	0.53
46:EH:148:GLY:O	46:EH:152:ILE:HG12	2.09	0.53
46:EJ:103:LYS:O	46:EJ:107:THR:OG1	2.27	0.53
45:EK:325:PRO:HB2	46:EL:208:TYR:OH	2.08	0.53
46:EL:344:TRP:HE3	45:EM:398:MET:HE1	1.74	0.53
45:FC:27:GLU:OE1	45:FC:243:ARG:NH1	2.41	0.53
46:FD:420:SER:O	46:FD:423:GLN:HG3	2.08	0.53
45:FG:287:SER:N	45:FG:290:GLU:OE2	2.35	0.53
45:FK:424:ASP:O	45:FK:428:LEU:HD23	2.09	0.53
45:GA:192:HIS:HD2	45:GA:421:ALA:HA	1.73	0.53
46:GD:269:GLY:HA2	46:GD:300:MET:HE2	1.91	0.53
46:GF:133:PHE:HB2	46:GF:164:MET:SD	2.49	0.53
45:GG:205:ASP:N	45:GG:205:ASP:OD2	2.41	0.53
46:HB:39:ASP:OD1	46:HB:40:SER:N	2.41	0.53
45:HE:407:TRP:HE1	46:HF:258:ILE:HG13	1.73	0.53
45:HG:101:ASN:HA	45:HG:144:GLY:H	1.73	0.53
45:HM:101:ASN:HA	45:HM:144:GLY:H	1.73	0.53
46:IB:135:ILE:HG13	46:IB:152:ILE:HD11	1.91	0.53
45:IC:326:LYS:HE3	46:IF:220:PRO:HD2	1.91	0.53
45:IG:208:ALA:O	45:IG:212:ILE:HG12	2.09	0.53
45:JC:7:ILE:HB	45:JC:137:VAL:HG12	1.90	0.53
45:JE:336:LYS:HE3	45:JE:351:PHE:HE2	1.74	0.53
46:JH:207:LEU:HB3	46:JH:225:LEU:HD22	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JH:207:LEU:HD13	46:JH:225:LEU:HB3	1.91	0.53
46:JN:47:ILE:HD12	46:JN:59:TYR:HE2	1.73	0.53
45:KA:408:TYR:HB3	45:KA:413:MET:HE3	1.91	0.53
45:KI:88:HIS:HB3	45:KI:91:GLN:HB2	1.90	0.53
45:KK:320:ARG:HD3	45:KK:360:PRO:HG3	1.91	0.53
46:LD:173:PRO:HG3	46:LD:380:ARG:HD2	1.91	0.53
46:LD:202:ILE:HD11	46:LD:268:ILE:HD11	1.91	0.53
46:LF:97:ALA:HB2	46:LF:143:THR:HB	1.91	0.53
45:LI:217:LEU:HD11	45:LI:368:LEU:HD23	1.91	0.53
46:LL:73:MET:HG3	46:LL:77:ARG:HH21	1.73	0.53
45:LM:155:GLU:HG3	45:LM:197:HIS:CD2	2.43	0.53
46:LN:269:GLY:HA2	46:LN:300:MET:HE2	1.91	0.53
46:MH:9:GLY:HA2	46:MH:66:MET:O	2.09	0.53
45:MI:306:ASP:OD1	45:MI:308:ARG:NH1	2.42	0.53
46:MJ:200:MET:HE1	46:MJ:268:ILE:HG21	1.91	0.53
46:ML:102:ALA:O	46:ML:106:TYR:HB2	2.09	0.53
46:NH:313:ALA:HB1	46:NH:367:PHE:HE1	1.74	0.53
45:NK:328:VAL:HG11	45:NK:353:VAL:HG21	1.91	0.53
45:OA:211:ASP:O	45:OA:215:ARG:HG2	2.09	0.53
45:OE:252:ILE:HA	45:OE:255:PHE:HE2	1.74	0.53
45:OE:280:LYS:HG3	45:OE:280:LYS:O	2.08	0.53
46:OF:380:ARG:O	46:OF:383:GLU:HG3	2.09	0.53
45:OK:251:ASP:OD1	45:OK:254:GLU:HG2	2.09	0.53
45:OM:234:VAL:HG22	45:OM:272:TYR:HB2	1.90	0.53
46:ON:46:ARG:HD2	46:ON:241:ARG:HA	1.89	0.53
46:ON:257:LEU:HD11	46:ON:314:SER:HB3	1.91	0.53
45:PA:293:ASN:O	45:PA:297:GLU:HG2	2.09	0.53
45:PC:121:ARG:HE	45:PC:124:LYS:HE2	1.73	0.53
45:PC:401:LYS:HZ2	46:PD:344:TRP:CD1	2.26	0.53
46:PF:285:THR:HA	46:PF:363:MET:HE1	1.91	0.53
45:PI:419:SER:O	45:PI:423:GLU:HG2	2.09	0.53
46:PL:208:TYR:CE1	46:PL:225:LEU:HD11	2.43	0.53
46:QB:66:MET:HG2	46:QB:147:MET:HE3	1.91	0.53
46:QB:165:GLU:OE2	46:QB:198:GLU:HG3	2.09	0.53
45:QC:326:LYS:HD3	46:QD:212:PHE:CZ	2.43	0.53
45:QG:174:SER:HB3	45:QG:177:VAL:O	2.09	0.53
45:QI:3:GLU:HG2	45:QI:64:ARG:NE	2.24	0.53
46:QJ:341:PHE:HD2	46:QJ:348:ASN:HD21	1.57	0.53
45:QK:227:LEU:O	45:QK:231:ILE:HD12	2.08	0.53
45:QM:242:LEU:HD11	45:QM:252:ILE:HG13	1.90	0.53
45:RE:324:VAL:HG12	45:RE:326:LYS:H	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RJ:86:ARG:NH2	46:SJ:278:SER:OG	2.42	0.53
45:SG:36:MET:HE3	45:SG:37:PRO:HD2	1.91	0.53
45:SG:288:VAL:HA	45:SG:291:ILE:HG12	1.90	0.53
46:SJ:63:ALA:O	46:SJ:89:ASN:ND2	2.40	0.53
45:SK:210:TYR:O	45:SK:214:ARG:HG2	2.08	0.53
46:SL:186:THR:HG23	46:SL:415:MET:CE	2.39	0.53
45:SM:434:GLU:O	46:SN:391:ARG:NH2	2.41	0.53
46:TD:67:ASP:OD1	46:TD:68:LEU:N	2.41	0.53
46:TD:256:ASN:HD21	45:TE:180:ALA:HA	1.73	0.53
46:TD:256:ASN:OD1	45:TE:181:VAL:HG22	2.08	0.53
45:TE:88:HIS:ND1	45:TE:91:GLN:OE1	2.42	0.53
46:TH:69:GLU:CD	46:TH:71:GLY:H	2.17	0.53
46:TL:262:ARG:HH21	46:TL:418:LEU:HD22	1.72	0.53
45:UC:188:ILE:HD11	45:UC:391:LEU:HB3	1.90	0.53
45:UE:209:ILE:HD11	45:UE:230:LEU:HD23	1.91	0.53
45:UM:88:HIS:HA	45:VK:280:LYS:HE3	1.90	0.53
45:VA:98:ASP:OD1	45:VA:99:ALA:N	2.41	0.53
45:VC:136:LEU:HD23	45:VC:167:LEU:HB2	1.91	0.53
45:VC:212:ILE:HD11	45:VC:300:ASN:HA	1.89	0.53
45:VE:1:MET:O	45:VE:131:GLY:HA3	2.09	0.53
45:VG:155:GLU:OE1	45:VG:156:ARG:HD2	2.09	0.53
46:VH:406:MET:O	46:VH:410:GLU:HG2	2.09	0.53
45:VM:206:ASN:OD1	47:VM:501:GTP:N2	2.42	0.53
46:VN:313:ALA:HB1	46:VN:367:PHE:CE1	2.44	0.53
3:0C:122:ARG:HH12	45:DI:225:THR:HB	1.73	0.53
13:0U:477:ASP:OD2	13:0U:480:THR:OG1	2.16	0.53
1:1A:40:GLY:O	1:1A:41:THR:OG1	2.20	0.53
4:1D:113:GLN:HE21	25:2R:516:GLN:NE2	2.07	0.53
5:1E:11:ARG:O	5:1E:14:SER:OG	2.24	0.53
18:1I:195:PHE:HE1	26:1W:72:ASN:HD21	1.54	0.53
21:1L:393:HIS:HA	21:1L:396:ASN:HD21	1.73	0.53
9:1N:90:TRP:HZ3	9:1N:229:PHE:HZ	1.56	0.53
9:1N:158:THR:HG22	9:1N:160:GLN:H	1.74	0.53
9:1N:227:ASN:ND2	9:1N:232:GLU:OE2	2.42	0.53
23:1O:155:ILE:HD12	45:UE:370:LYS:HZ2	1.73	0.53
14:1V:141:ASN:ND2	45:LK:402:ARG:O	2.42	0.53
27:2C:249:LEU:HB2	27:2C:287:PHE:CE1	2.44	0.53
21:2L:358:ASP:OD1	21:2L:359:LYS:N	2.41	0.53
23:2O:451:LYS:O	23:2O:455:GLN:HG2	2.09	0.53
25:2R:283:ARG:NH1	45:CG:46:ASP:OD1	2.41	0.53
11:2S:178:LEU:HD13	11:2S:190:ILE:HG13	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:2W:200:PRO:HA	26:2W:203:LYS:HG3	1.91	0.53
26:2W:214:ARG:HH22	27:4C:182:SER:C	2.17	0.53
15:2X:9:PHE:CD2	15:2X:37:ARG:HD2	2.43	0.53
10:3Q:73:LEU:HD22	10:3Q:169:ASP:HB2	1.90	0.53
11:3S:229:ILE:O	11:3S:233:ILE:HG12	2.08	0.53
30:4H:184:LYS:HG2	46:AL:276:ARG:HH22	1.73	0.53
35:4S:160:THR:O	35:4S:164:LYS:HG2	2.09	0.53
36:5A:62:PRO:O	36:5A:63:THR:OG1	2.25	0.53
37:5E:63:HIS:HD2	46:NB:58:ARG:CZ	2.22	0.53
37:5H:133:PRO:HB2	37:5H:136:LEU:HB2	1.90	0.53
40:6G:118:LYS:HZ1	46:UJ:121:ARG:HE	1.56	0.53
34:6R:430:LEU:HD21	34:6R:437:ASP:O	2.09	0.53
34:7R:94:ARG:HD2	34:7R:184:ASP:HB2	1.90	0.53
45:AE:116:ASP:N	45:AE:116:ASP:OD2	2.41	0.53
46:AF:5:VAL:HG12	46:AF:62:ARG:HD3	1.90	0.53
45:BA:147:SER:HB2	45:BA:190:SER:HB3	1.91	0.53
45:BA:407:TRP:CZ3	46:BB:255:VAL:HA	2.44	0.53
46:BH:186:THR:HA	46:BH:189:VAL:HG12	1.91	0.53
46:BJ:390:ARG:HG3	46:BJ:390:ARG:HH11	1.73	0.53
46:BL:112:LEU:HD23	46:BL:147:MET:HE1	1.90	0.53
46:CF:350:LYS:HZ1	45:CG:181:VAL:HG12	1.72	0.53
46:CL:217:LEU:HB3	46:CL:220:PRO:HG3	1.91	0.53
45:DA:288:VAL:HG11	45:DA:327:ASP:HB3	1.91	0.53
46:DH:65:LEU:HD12	46:DH:90:PHE:CE1	2.44	0.53
46:DH:99:ASN:ND2	46:DH:178:THR:HG21	2.23	0.53
45:DI:419:SER:O	45:DI:423:GLU:HG2	2.09	0.53
45:EA:135:PHE:HB2	45:EA:166:LYS:HG2	1.90	0.53
46:EF:3:GLU:HG3	46:EF:62:ARG:NH1	2.24	0.53
46:FB:350:LYS:NZ	46:FB:352:SER:OG	2.38	0.53
45:FE:372:MET:HE2	45:FE:373:ARG:NH2	2.23	0.53
46:FJ:23:VAL:HG21	46:FJ:230:SER:HB3	1.91	0.53
46:FJ:178:THR:HB	46:FJ:181:GLU:HG3	1.90	0.53
46:FJ:318:ARG:HB3	46:FJ:357:PRO:HA	1.91	0.53
46:FN:68:LEU:HD12	46:FN:93:GLY:HA3	1.90	0.53
45:GE:297:GLU:OE2	45:GE:299:ALA:HB3	2.07	0.53
45:GE:347:CYS:HA	46:GH:388:MET:HE1	1.91	0.53
45:GG:76:ASP:OD1	45:GG:79:ARG:NH2	2.41	0.53
45:HA:109:THR:OG1	45:HA:411:GLU:OE2	2.16	0.53
46:HF:192:LEU:HD21	46:HF:199:CYS:HB2	1.91	0.53
46:HH:254:ALA:O	46:HH:258:ILE:HG22	2.08	0.53
46:ID:186:THR:HA	46:ID:189:VAL:HG12	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IE:71:GLU:OE1	45:IE:73:THR:OG1	2.20	0.53
45:IM:176:GLN:HE22	46:IN:331:LEU:HD11	1.73	0.53
45:IM:181:VAL:HG23	45:IM:182:VAL:HG23	1.91	0.53
45:JG:76:ASP:OD2	46:JH:46:ARG:NH2	2.41	0.53
45:KC:308:ARG:HG2	45:NC:282:TYR:CZ	2.43	0.53
46:KN:6:HIS:O	46:KN:63:ALA:HA	2.08	0.53
45:LA:395:PHE:HZ	45:LA:418:PHE:HB3	1.74	0.53
46:LB:221:THR:HG23	46:LB:224:ASP:H	1.73	0.53
45:LC:326:LYS:NZ	46:LF:208:TYR:O	2.42	0.53
45:LE:224:TYR:HD1	45:LE:227:LEU:HD12	1.73	0.53
46:LH:386:THR:O	46:LH:390:ARG:HG2	2.08	0.53
45:LI:136:LEU:HD23	45:LI:167:LEU:HB2	1.91	0.53
46:LJ:334:GLN:HE22	46:LJ:348:ASN:H	1.55	0.53
46:LL:3:GLU:HG3	46:LL:62:ARG:NH1	2.24	0.53
46:LL:222:TYR:O	46:LL:226:ASN:ND2	2.27	0.53
45:MA:272:TYR:HD2	45:MA:275:ILE:HD11	1.74	0.53
46:MB:313:ALA:HB1	46:MB:367:PHE:HE1	1.74	0.53
46:MD:210:ILE:O	46:MD:214:THR:OG1	2.26	0.53
46:MD:222:TYR:O	46:MD:226:ASN:ND2	2.31	0.53
45:ME:184:PRO:O	45:ME:188:ILE:HG12	2.08	0.53
45:ME:407:TRP:HZ2	46:MF:258:ILE:HD11	1.73	0.53
46:MF:371:SER:O	46:MF:422:TYR:OH	2.23	0.53
46:ML:207:LEU:HB3	46:ML:225:LEU:HD22	1.90	0.53
45:NC:259:LEU:HD23	45:NC:268:MET:HG2	1.90	0.53
46:NH:58:ARG:HH22	46:OH:280:GLN:HG3	1.72	0.53
46:NJ:203:ASP:OD1	46:NJ:302:ALA:N	2.31	0.53
45:NK:210:TYR:HE1	45:NK:227:LEU:HD21	1.74	0.53
46:OH:371:SER:O	46:OH:422:TYR:OH	2.18	0.53
45:OK:88:HIS:HB3	45:OK:91:GLN:HG2	1.91	0.53
46:ON:207:LEU:HD12	46:ON:225:LEU:HD22	1.90	0.53
46:PB:372:THR:HA	46:PB:422:TYR:HE2	1.74	0.53
46:PD:256:ASN:HD21	46:PD:350:LYS:HB2	1.73	0.53
46:PD:316:LEU:HD13	46:PD:352:SER:HB2	1.91	0.53
46:PF:418:LEU:O	46:PF:422:TYR:HB2	2.08	0.53
45:PG:247:ALA:HB3	45:PG:355:ILE:HD11	1.90	0.53
46:PH:405:GLU:OE2	46:PH:409:THR:OG1	2.27	0.53
45:PI:212:ILE:HD11	45:PI:300:ASN:HA	1.89	0.53
45:PK:70:LEU:HD13	45:PK:95:GLY:HA3	1.91	0.53
45:QC:326:LYS:HZ1	46:QD:220:PRO:C	2.17	0.53
45:QC:426:ALA:HB1	45:QC:430:LYS:HZ1	1.73	0.53
46:QD:66:MET:HE2	46:QD:147:MET:HE3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QK:21:TRP:CZ3	45:QK:63:PRO:HB3	2.44	0.53
46:QN:42:LEU:HA	46:QN:45:GLU:HG3	1.90	0.53
45:RE:27:GLU:HB3	45:RE:361:THR:HG21	1.89	0.53
46:SB:303:ALA:HB2	46:SB:377:MET:HE1	1.91	0.53
45:SC:419:SER:O	45:SC:423:GLU:HG2	2.09	0.53
46:SD:262:ARG:HH21	46:SD:418:LEU:HD22	1.74	0.53
45:SE:362:VAL:HG12	45:SE:370:LYS:HE2	1.90	0.53
46:SF:3:GLU:OE1	46:SF:49:VAL:HA	2.09	0.53
45:SI:9:VAL:HG12	45:SI:68:LEU:HB2	1.91	0.53
46:SL:327:ASP:HA	46:SL:330:MET:HG3	1.91	0.53
45:SM:174:SER:HB2	45:SM:177:VAL:O	2.09	0.53
46:TD:226:ASN:HD21	49:TD:501:GDP:HN1	1.56	0.53
46:TJ:97:ALA:HA	46:TJ:103:LYS:HD2	1.90	0.53
45:TK:69:ASP:OD1	45:TK:70:LEU:N	2.41	0.53
46:TL:2:ARG:NH1	45:TM:71:GLU:HG2	2.22	0.53
46:TL:316:LEU:HD23	46:TL:352:SER:HB2	1.91	0.53
45:UC:340:THR:HG23	45:UC:341:ILE:HG13	1.91	0.53
46:UF:398:TYR:O	46:UF:403:MET:HB2	2.09	0.53
46:UL:290:THR:HA	46:UL:293:MET:HG2	1.90	0.53
45:VA:406:HIS:HA	45:VA:409:VAL:HG12	1.91	0.53
46:VL:64:ILE:HA	46:VL:89:ASN:HB3	1.89	0.53
46:VL:106:TYR:CD2	46:VL:403:MET:HE1	2.44	0.53
46:WB:293:MET:HG2	46:WB:365:VAL:HG11	1.90	0.53
46:WD:148:GLY:O	46:WD:152:ILE:HG13	2.08	0.53
45:WE:121:ARG:HH21	45:WE:124:LYS:HE3	1.73	0.53
45:WG:221:ARG:NH2	46:WH:322:SER:O	2.42	0.53
46:WN:296:ALA:O	46:WN:299:MET:HE3	2.08	0.53
2:0B:134:ASN:OD1	2:0B:135:GLN:N	2.38	0.53
4:0D:52:ASN:HD21	46:EB:320:ARG:NH1	2.07	0.53
6:0F:80:TYR:HE2	45:EE:81:GLY:HA3	1.73	0.53
6:0F:208:PHE:HA	6:0F:211:LEU:HD12	1.91	0.53
11:0S:47:LYS:HB2	11:0S:48:ILE:HD12	1.90	0.53
4:1D:161:LYS:HG2	4:1D:162:VAL:H	1.73	0.53
19:1J:249:ASN:N	33:4F:40:ARG:HH22	2.06	0.53
19:1J:263:PHE:HB2	45:II:371:VAL:HG12	1.91	0.53
21:1L:698:ARG:HD3	21:1L:698:ARG:H	1.73	0.53
9:1N:89:ILE:HG13	9:1N:100:TYR:CD2	2.44	0.53
9:1N:183:TRP:CZ3	9:1N:211:HIS:HB2	2.43	0.53
26:1W:121:GLU:HG2	34:4R:17:PHE:CE1	2.43	0.53
4:2D:81:ARG:HH12	46:EJ:356:ILE:HG23	1.74	0.53
5:2E:29:ARG:HH21	5:2E:148:GLN:C	2.15	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:2O:219:LEU:O	23:2O:222:LEU:HG	2.09	0.53
24:2P:353:ASN:O	24:2P:357:ILE:HG12	2.09	0.53
10:2Q:15:TYR:CE2	10:2Q:17:ILE:HB	2.43	0.53
26:2W:266:LEU:HD21	45:LK:370:LYS:H	1.72	0.53
5:3E:98:ALA:O	5:3E:102:LYS:HG2	2.09	0.53
30:3H:199:GLU:C	30:3H:201:ASN:H	2.17	0.53
13:3U:247:LEU:HB2	13:3U:251:ASP:OD1	2.08	0.53
34:4R:510:GLU:H	34:4R:510:GLU:CD	2.17	0.53
37:5E:214:LEU:HG	45:LC:437:ILE:HD11	1.91	0.53
37:5H:93:PHE:CE2	46:KN:261:PRO:HG3	2.44	0.53
46:AF:375:GLN:HG3	46:AF:379:LYS:NZ	2.23	0.53
46:AH:6:HIS:NE2	46:AH:8:GLN:OE1	2.42	0.53
45:AM:58:ALA:O	45:BM:282:TYR:OH	2.27	0.53
46:BB:282:ARG:NH2	46:BB:292:GLN:OE1	2.36	0.53
45:BC:147:SER:HB2	45:BC:190:SER:HB2	1.91	0.53
45:BI:28:HIS:CE1	45:BI:49:PHE:HA	2.43	0.53
46:BJ:55:THR:HG23	46:CH:283:ALA:HA	1.90	0.53
45:BM:239:THR:HG23	45:BM:243:ARG:HH12	1.74	0.53
45:CA:140:SER:OG	47:CA:501:GTP:O2B	2.27	0.53
45:CA:332:ILE:HD11	45:CA:351:PHE:CD1	2.43	0.53
46:CH:282:ARG:NH2	46:CH:292:GLN:OE1	2.39	0.53
45:CK:288:VAL:HG11	45:CK:327:ASP:HB3	1.91	0.53
45:DA:288:VAL:HA	45:DA:291:ILE:HG12	1.91	0.53
45:DE:203:MET:HE3	45:DE:203:MET:HA	1.91	0.53
45:DG:318:MET:HB2	45:DG:376:CYS:SG	2.49	0.53
46:DH:258:ILE:HD11	45:DI:407:TRP:HZ2	1.73	0.53
46:DH:284:LEU:HD11	46:DH:362:LYS:HB2	1.91	0.53
46:DJ:226:ASN:HD21	49:DJ:501:GDP:HN1	1.57	0.53
46:DL:5:VAL:HG12	46:DL:62:ARG:HD3	1.90	0.53
46:EB:32:PRO:HA	46:EB:84:LEU:HD11	1.89	0.53
46:EL:2:ARG:NH2	45:EM:73:THR:OG1	2.41	0.53
46:EL:121:ARG:NH2	46:EL:158:GLU:OE2	2.32	0.53
46:EN:67:ASP:O	46:EN:92:PHE:HA	2.08	0.53
45:FI:9:VAL:HG12	45:FI:68:LEU:HB2	1.91	0.53
45:FI:101:ASN:HA	45:FI:144:GLY:H	1.74	0.53
45:FI:414:GLU:CD	45:FI:416:GLY:H	2.17	0.53
45:GE:320:ARG:NH2	45:GE:358:GLN:OE1	2.42	0.53
45:GG:322:ASP:OD1	45:GG:373:ARG:NH1	2.42	0.53
46:GH:190:HIS:CD2	46:GH:411:ALA:HA	2.43	0.53
45:HC:184:PRO:O	45:HC:188:ILE:HG12	2.09	0.53
45:HE:396:ASP:OD1	45:HE:397:LEU:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HK:164:LYS:O	45:HK:166:LYS:NZ	2.42	0.53
45:IA:5:ILE:HD11	45:IA:135:PHE:CE1	2.43	0.53
45:IA:189:LEU:HD11	45:IA:418:PHE:HE2	1.74	0.53
46:ID:222:TYR:O	46:ID:226:ASN:ND2	2.24	0.53
45:IE:105:ARG:HG2	45:IE:411:GLU:CD	2.34	0.53
45:JI:141:VAL:HG22	45:JI:187:SER:HA	1.90	0.53
46:JN:67:ASP:O	46:JN:92:PHE:HA	2.09	0.53
46:JN:203:ASP:HB3	46:JN:301:CYS:HA	1.91	0.53
46:KB:222:TYR:O	46:KB:226:ASN:ND2	2.42	0.53
45:KE:184:PRO:O	45:KE:188:ILE:HG12	2.09	0.53
46:KF:238:CYS:SG	46:KF:318:ARG:HD2	2.49	0.53
46:KL:8:GLN:HE21	46:KL:65:LEU:HD21	1.73	0.53
45:KM:147:SER:HB2	45:KM:190:SER:OG	2.09	0.53
45:LA:102:ASN:OD1	45:LA:105:ARG:N	2.31	0.53
45:LE:286:LEU:O	45:LE:373:ARG:NE	2.39	0.53
45:LM:276:ILE:HG23	45:LM:280:LYS:HG3	1.90	0.53
46:MD:313:ALA:HB1	46:MD:367:PHE:HE1	1.74	0.53
45:ME:272:TYR:HB3	45:ME:275:ILE:HD11	1.91	0.53
45:ME:397:LEU:HD23	46:MF:346:PRO:HD3	1.91	0.53
45:NG:177:VAL:HG12	46:NH:331:LEU:HD13	1.91	0.53
46:NH:262:ARG:NH2	46:NH:414:ASN:OD1	2.42	0.53
45:NK:109:THR:HG22	45:NK:110:ILE:HG23	1.90	0.53
45:OE:147:SER:HB2	45:OE:190:SER:HB2	1.91	0.53
46:ON:213:ARG:HH22	46:ON:297:LYS:HB3	1.74	0.53
46:PB:67:ASP:O	46:PB:92:PHE:HA	2.09	0.53
45:PC:27:GLU:OE2	45:PC:28:HIS:ND1	2.41	0.53
45:PE:387:VAL:HA	45:PE:390:ARG:HG2	1.91	0.53
45:PG:261:PRO:HG3	46:PJ:394:PHE:HE2	1.73	0.53
46:PH:74:ASP:HA	46:PH:77:ARG:HE	1.73	0.53
45:PK:7:ILE:HB	45:PK:137:VAL:HG12	1.90	0.53
45:QC:301:MET:HE2	45:QC:307:PRO:HD3	1.91	0.53
46:QD:49:VAL:HG23	46:QD:50:TYR:CD2	2.44	0.53
46:QH:293:MET:HE2	46:QH:367:PHE:HB2	1.90	0.53
45:RA:229:ARG:HH12	45:RA:367:ASP:H	1.57	0.53
46:RB:162:ARG:HH22	46:RB:251:ARG:HD2	1.73	0.53
46:RB:167:PHE:CE1	46:RB:233:MET:HG2	2.43	0.53
45:RK:174:SER:OG	45:RK:207:GLU:OE1	2.27	0.53
45:RM:192:HIS:ND1	45:RM:421:ALA:HA	2.24	0.53
46:SB:51:TYR:O	46:SB:62:ARG:NH2	2.40	0.53
45:SE:11:GLN:HG3	45:SE:74:VAL:HG11	1.89	0.53
46:SJ:52:ASN:OD1	46:SJ:62:ARG:NH2	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SK:326:LYS:HD3	46:SL:220:PRO:HD2	1.91	0.53
45:SM:98:ASP:O	45:SM:105:ARG:NH1	2.41	0.53
45:SM:340:THR:HG23	45:SM:341:ILE:HG13	1.90	0.53
45:TC:9:VAL:HG21	45:TC:149:LEU:HB2	1.91	0.53
46:TD:213:ARG:HD2	46:TD:297:LYS:HB2	1.91	0.53
45:TE:352:LYS:NZ	46:TF:179:VAL:HG13	2.24	0.53
46:TF:202:ILE:HD11	46:TF:207:LEU:HD21	1.90	0.53
46:TJ:133:PHE:CD2	46:TJ:164:MET:HE1	2.38	0.53
46:UD:211:CYS:HA	46:UD:215:LEU:HD12	1.91	0.53
45:UE:175:PRO:HD2	45:UE:207:GLU:OE2	2.09	0.53
46:UF:327:ASP:OD1	46:UF:328:GLU:N	2.41	0.53
45:UI:184:PRO:O	45:UI:188:ILE:HG12	2.09	0.53
45:VC:398:MET:HE1	46:VD:346:PRO:HD2	1.90	0.53
45:VI:141:VAL:HG22	45:VI:187:SER:HA	1.90	0.53
45:WA:98:ASP:O	45:WA:105:ARG:NH1	2.42	0.53
46:WB:310:TYR:HB2	46:WB:341:PHE:HD1	1.74	0.53
45:WM:174:SER:HB2	45:WM:177:VAL:O	2.09	0.53
4:0D:20:LYS:NZ	46:CB:53:GLU:OE1	2.38	0.53
8:0H:437:ARG:HA	8:0H:437:ARG:NH1	2.24	0.53
9:0N:158:THR:HG22	9:0N:160:GLN:H	1.73	0.53
11:0S:316:CYS:SG	11:0S:317:VAL:N	2.82	0.53
14:0V:64:HIS:CE1	14:0V:65:LYS:HD3	2.44	0.53
1:1A:39:TYR:HB3	1:1A:43:TRP:CH2	2.44	0.53
5:1E:95:GLN:HE22	5:1E:96:ARG:HD3	1.74	0.53
8:1H:62:ILE:O	8:1H:65:ILE:HB	2.09	0.53
18:1I:103:LEU:HB2	18:1I:105:ARG:NH1	2.24	0.53
21:1L:100:ASP:OD1	21:1L:101:PHE:N	2.42	0.53
21:1L:314:ASN:HB2	46:BH:320:ARG:HH12	1.74	0.53
9:1N:47:LYS:HG3	9:1N:50:ARG:HH21	1.74	0.53
24:1P:101:ARG:HH21	24:1P:104:LYS:HZ3	1.57	0.53
24:1P:201:GLU:HG2	24:1P:202:GLU:N	2.24	0.53
24:1P:258:GLU:HA	24:1P:261:GLU:OE2	2.09	0.53
24:1P:327:GLN:HG2	24:1P:330:ARG:NH2	2.24	0.53
10:1Q:36:ARG:NE	35:4S:202:ASP:O	2.30	0.53
13:1U:458:LYS:HZ3	13:1U:460:ASN:HB3	1.74	0.53
14:1V:22:ARG:HG3	14:1V:23:TYR:CD1	2.40	0.53
14:1V:94:GLY:HA2	46:LJ:262:ARG:HG2	1.91	0.53
1:2A:91:ASN:ND2	1:2A:95:LEU:O	2.42	0.53
23:2O:449:GLY:HA3	46:UB:56:GLY:HA2	1.91	0.53
25:2R:265:SER:C	25:2R:267:ILE:H	2.16	0.53
13:2U:449:ARG:HH12	45:VI:84:ARG:HH11	1.57	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:2V:136:THR:HA	14:2V:139:VAL:HG22	1.91	0.53
14:2V:160:ASP:HA	14:2V:163:LYS:HE2	1.90	0.53
26:2W:204:LYS:HD3	26:2W:207:ILE:HD12	1.90	0.53
15:2X:35:ASP:N	15:2X:35:ASP:OD2	2.42	0.53
16:3B:120:ASP:HA	16:3B:123:GLN:HE21	1.74	0.53
32:3D:8:VAL:HG23	32:3D:9:THR:HG23	1.91	0.53
30:3H:174:PHE:CD2	30:3H:174:PHE:CB	2.80	0.53
30:3H:197:LYS:HE3	30:3H:202:ASP:OD1	2.09	0.53
10:3Q:74:PRO:HB3	10:3Q:148:TYR:CE2	2.44	0.53
25:3R:9:PRO:HA	46:MN:227:HIS:HD2	1.74	0.53
11:3S:36:ALA:O	11:3S:37:LYS:HD2	2.09	0.53
12:3T:120:LEU:HD23	12:3T:178:LEU:HD21	1.91	0.53
13:3U:41:ARG:HH12	13:3U:46:ARG:HH21	1.56	0.53
15:3X:137:GLN:O	15:3X:139:ARG:NH1	2.42	0.53
37:5E:44:ARG:HD3	37:5E:45:PRO:HD2	1.90	0.53
10:5Q:81:LYS:HD2	10:5Q:129:TRP:CE2	2.44	0.53
10:6Q:61:ALA:HB1	10:6Q:69:LEU:HD13	1.91	0.53
45:AA:408:TYR:HB3	45:AA:413:MET:HE2	1.91	0.53
45:BE:147:SER:HB2	45:BE:190:SER:OG	2.08	0.53
45:BE:214:ARG:HH12	45:BE:220:GLU:HG2	1.73	0.53
45:BG:301:MET:HE3	45:BG:307:PRO:HG3	1.90	0.53
46:BH:105:HIS:CE1	46:BH:150:LEU:HD12	2.43	0.53
45:BM:55:GLU:HG3	45:BM:57:GLY:H	1.74	0.53
46:BN:298:ASN:ND2	46:BN:298:ASN:O	2.41	0.53
46:CD:105:HIS:CE1	46:CD:150:LEU:HD13	2.44	0.53
46:DD:86:ARG:HB3	46:DD:88:ASP:OD1	2.09	0.53
45:DM:426:ALA:HB1	45:DM:430:LYS:NZ	2.24	0.53
46:EF:350:LYS:HZ3	46:EF:352:SER:HB2	1.74	0.53
45:EG:219:ILE:HG22	45:EG:222:PRO:HD3	1.91	0.53
46:EL:257:LEU:HD11	46:EL:314:SER:HB2	1.91	0.53
46:FB:6:HIS:HD2	46:FB:21:TRP:HE1	1.57	0.53
46:FN:175:VAL:HG22	46:FN:205:GLU:HG3	1.91	0.53
45:GE:326:LYS:CD	46:GH:208:TYR:HE1	2.21	0.53
46:GJ:6:HIS:O	46:GJ:63:ALA:HA	2.09	0.53
46:HF:31:ASP:OD1	46:HF:35:THR:N	2.38	0.53
45:HI:345:ASP:OD2	45:HI:346:TRP:N	2.42	0.53
46:HJ:139:LEU:HD13	46:HJ:168:SER:HB3	1.91	0.53
46:IH:282:ARG:NH1	46:IH:292:GLN:OE1	2.39	0.53
45:II:362:VAL:HB	45:II:370:LYS:HB3	1.89	0.53
46:IL:193:VAL:HA	46:IL:264:HIS:HE1	1.74	0.53
45:JC:153:LEU:O	45:JC:157:LEU:HG	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JH:285:THR:HB	46:JH:287:PRO:HD2	1.90	0.53
45:JM:104:ALA:HB2	45:JM:408:TYR:HD1	1.74	0.53
46:KB:174:LYS:HZ3	46:KB:380:ARG:HH12	1.57	0.53
45:KC:298:PRO:HA	45:KC:301:MET:HG2	1.91	0.53
45:LE:21:TRP:CZ3	45:LE:63:PRO:HB3	2.44	0.53
45:LI:208:ALA:O	45:LI:212:ILE:HG12	2.09	0.53
46:LN:293:MET:HE3	46:LN:367:PHE:HD2	1.73	0.53
45:MG:260:VAL:HG13	45:MG:265:ILE:O	2.09	0.53
45:MI:414:GLU:CD	45:MI:416:GLY:H	2.18	0.53
45:NG:419:SER:O	45:NG:423:GLU:HG2	2.09	0.53
45:NM:269:LEU:HB2	45:NM:301:MET:CE	2.39	0.53
46:NN:303:ALA:HB2	46:NN:377:MET:HE1	1.90	0.53
45:OA:167:LEU:HD23	45:OA:200:VAL:HB	1.91	0.53
45:OA:399:TYR:OH	45:OA:415:GLU:OE2	2.25	0.53
45:OA:408:TYR:HD2	45:OA:418:PHE:HZ	1.56	0.53
46:OF:16:ILE:HD13	46:OF:226:ASN:OD1	2.09	0.53
45:OG:10:GLY:O	45:OG:14:ILE:HG12	2.09	0.53
45:OG:88:HIS:ND1	45:PG:284:GLU:OE1	2.42	0.53
46:OH:131:GLN:HE22	46:OH:163:ILE:HD11	1.73	0.53
46:OH:332:ASN:O	46:OH:336:LYS:HG3	2.09	0.53
45:OM:390:ARG:HG3	45:OM:391:LEU:HD12	1.91	0.53
46:PF:105:HIS:CE1	46:PF:150:LEU:HD13	2.44	0.53
46:PF:284:LEU:HG	46:PF:363:MET:HE3	1.91	0.53
45:PI:88:HIS:CD2	45:PI:90:GLU:HG3	2.43	0.53
45:PI:319:TYR:HB3	45:PI:323:VAL:HG11	1.90	0.53
46:PL:86:ARG:HB3	46:PL:89:ASN:HD21	1.72	0.53
45:QC:74:VAL:O	45:QC:78:VAL:HG23	2.09	0.53
45:QC:211:ASP:OD1	45:QC:214:ARG:NH2	2.28	0.53
46:QD:86:ARG:HA	46:RD:281:TYR:HE1	1.73	0.53
45:QE:391:LEU:HA	45:QE:394:LYS:HG2	1.89	0.53
45:QI:36:MET:SD	45:QI:37:PRO:HD2	2.49	0.53
45:QI:205:ASP:OD2	45:QI:303:ALA:HA	2.08	0.53
45:QI:345:ASP:CG	46:QJ:390:ARG:HH22	2.17	0.53
46:QJ:2:ARG:HB2	46:QJ:131:GLN:HG3	1.89	0.53
46:QJ:350:LYS:HD3	45:QK:180:ALA:HA	1.91	0.53
46:QN:289:LEU:O	46:QN:293:MET:HG3	2.09	0.53
46:QN:372:THR:HA	46:QN:422:TYR:HE2	1.72	0.53
46:RB:407:GLU:HA	46:RB:410:GLU:CD	2.34	0.53
45:RK:129:CYS:SG	45:RK:130:THR:N	2.81	0.53
46:RL:67:ASP:OD1	46:RL:68:LEU:N	2.42	0.53
46:RN:226:ASN:HD21	49:RN:501:GDP:HN1	1.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SL:334:GLN:HA	46:SL:341:PHE:CE2	2.43	0.53
45:TC:84:ARG:NH2	45:TC:85:GLN:HA	2.24	0.53
45:TG:224:TYR:O	45:TG:228:ASN:ND2	2.41	0.53
45:TI:60:LYS:NZ	45:UI:282:TYR:O	2.41	0.53
45:UK:156:ARG:HE	45:UK:156:ARG:HA	1.74	0.53
45:VA:69:ASP:CG	45:VA:75:ILE:HD13	2.33	0.53
45:VA:326:LYS:HE2	46:VD:220:PRO:HD2	1.91	0.53
45:VE:268:MET:HG3	45:VE:380:ASN:HB2	1.89	0.53
45:VG:244:PHE:HB2	45:VG:356:ASN:HD21	1.74	0.53
45:VG:414:GLU:CD	45:VG:416:GLY:H	2.15	0.53
46:VH:286:VAL:HG21	46:VH:325:GLU:HG3	1.90	0.53
45:VM:270:SER:O	45:VM:302:MET:HB2	2.08	0.53
46:VN:117:LEU:O	46:VN:121:ARG:HG3	2.09	0.53
45:WA:244:PHE:HB2	45:WA:356:ASN:HD21	1.73	0.53
46:WB:266:PHE:CE2	46:WB:370:ASN:HB2	2.44	0.53
45:WE:167:LEU:HG	45:WE:200:VAL:HB	1.90	0.53
45:DC:288:VAL:HG21	45:DC:327:ASP:HB3	1.90	0.53
11:0S:215:VAL:HG12	11:0S:230:MET:HE2	1.92	0.52
12:0T:188:ASP:OD2	12:0T:193:LYS:HG3	2.08	0.52
1:1A:61:TYR:OH	46:MF:53:GLU:OE1	2.27	0.52
21:1L:579:VAL:O	21:1L:579:VAL:HG12	2.10	0.52
16:2B:45:GLU:OE2	16:2B:48:GLU:N	2.38	0.52
16:2B:73:ASP:OD1	16:2B:74:THR:N	2.42	0.52
16:2B:81:SER:OG	16:2B:84:GLU:OE2	2.19	0.52
27:2C:51:ASN:ND2	27:2C:54:ASP:OD2	2.43	0.52
5:2E:129:HIS:HB3	5:2E:132:ILE:HD12	1.91	0.52
20:2K:285:LYS:HG3	20:2K:289:LYS:NZ	2.23	0.52
9:2N:16:ILE:HG22	46:IB:48:ASN:HD22	1.73	0.52
9:2N:269:GLN:OE1	9:2N:269:GLN:N	2.41	0.52
23:2O:151:LYS:O	23:2O:154:THR:OG1	2.20	0.52
14:2V:217:GLU:O	14:2V:221:LYS:HG2	2.09	0.52
16:3B:218:ILE:HG12	16:3B:232:VAL:HG12	1.91	0.52
31:3I:197:GLN:HE22	45:FK:127:ASP:N	2.07	0.52
23:3O:456:LEU:O	23:3O:459:GLN:HG3	2.09	0.52
35:4S:65:PHE:CE2	35:4S:120:ALA:HB2	2.44	0.52
36:5B:138:ARG:HH22	46:NH:359:LYS:NZ	2.06	0.52
36:5D:87:ARG:NH1	45:NM:364:PRO:HG2	2.24	0.52
37:5G:209:ARG:HD3	37:5G:209:ARG:H	1.73	0.52
37:5H:67:ARG:NH1	37:5H:70:GLU:OE1	2.42	0.52
35:5S:152:THR:O	35:5S:153:LYS:HG3	2.09	0.52
40:6G:95:VAL:HG13	45:UK:96:LYS:NZ	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:8P:318:UNK:C	46:QB:276:ARG:HH22	2.22	0.52
45:AC:226:ASN:ND2	45:AC:367:ASP:OD2	2.39	0.52
46:AD:150:LEU:O	46:AD:154:LYS:HG2	2.08	0.52
45:AG:208:ALA:O	45:AG:212:ILE:HG12	2.08	0.52
46:AJ:292:GLN:HG2	46:AJ:298:ASN:ND2	2.24	0.52
45:AK:90:GLU:OE1	45:AK:121:ARG:NH2	2.43	0.52
45:BA:132:LEU:HD22	45:BA:164:LYS:HG2	1.91	0.52
45:BE:224:TYR:HE1	47:BE:501:GTP:C5	2.27	0.52
45:BG:268:MET:HG3	45:BG:380:ASN:HB2	1.89	0.52
46:BH:174:LYS:N	46:BH:174:LYS:HD3	2.24	0.52
45:CA:241:SER:OG	45:CA:250:VAL:O	2.22	0.52
45:CG:206:ASN:OD1	45:CG:207:GLU:N	2.42	0.52
46:DB:86:ARG:HG3	46:DB:87:PRO:HD2	1.90	0.52
46:DJ:327:ASP:HB3	45:DK:177:VAL:HG13	1.91	0.52
46:DL:334:GLN:HA	46:DL:341:PHE:HE1	1.74	0.52
46:EB:162:ARG:HA	46:EB:251:ARG:HH22	1.74	0.52
46:ED:45:GLU:OE1	46:ED:46:ARG:HG2	2.09	0.52
46:EH:258:ILE:HD11	45:EI:407:TRP:HZ2	1.73	0.52
45:EI:118:CYS:O	45:EI:122:ILE:HG12	2.08	0.52
46:EL:371:SER:O	46:EL:422:TYR:OH	2.23	0.52
46:EN:278:SER:HA	46:EN:281:TYR:HB2	1.91	0.52
45:FC:292:THR:HG21	45:FC:331:SER:HB3	1.91	0.52
45:FK:115:VAL:HG23	45:FK:153:LEU:HD23	1.91	0.52
45:FM:140:SER:OG	47:FM:501:GTP:O2B	2.27	0.52
45:GA:88:HIS:HB3	45:GA:91:GLN:HG3	1.91	0.52
45:GE:226:ASN:ND2	45:GE:367:ASP:OD2	2.42	0.52
45:GE:259:LEU:HD21	45:GE:316:SER:HB3	1.91	0.52
46:GL:372:THR:HA	46:GL:422:TYR:CE2	2.44	0.52
45:HA:66:VAL:HG23	45:HA:91:GLN:HB2	1.90	0.52
45:HA:245:ASP:OD1	45:HA:246:GLY:N	2.42	0.52
45:HI:329:ASN:HD21	46:HL:175:VAL:HG12	1.73	0.52
45:HK:105:ARG:HD2	46:HL:251:ARG:HH21	1.74	0.52
46:HL:309:ARG:NH2	46:HL:426:GLN:O	2.37	0.52
45:IA:308:ARG:HH11	45:IA:308:ARG:HA	1.74	0.52
45:IC:118:CYS:O	45:IC:122:ILE:HG12	2.08	0.52
45:IE:356:ASN:OD1	45:IE:357:TYR:N	2.41	0.52
46:IJ:258:ILE:HD12	46:IJ:264:HIS:HB3	1.90	0.52
45:IM:88:HIS:CD2	45:IM:91:GLN:HG3	2.44	0.52
45:JG:175:PRO:HG3	45:JG:390:ARG:NH1	2.25	0.52
45:JG:288:VAL:HG11	45:JG:327:ASP:HB3	1.91	0.52
45:KI:301:MET:HA	45:KI:301:MET:HE3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LA:181:VAL:HG23	45:LA:182:VAL:HG13	1.91	0.52
46:LD:31:ASP:OD2	46:LD:37:HIS:ND1	2.41	0.52
45:LE:241:SER:OG	45:LE:250:VAL:O	2.20	0.52
45:LE:242:LEU:HD11	45:LE:252:ILE:HD11	1.90	0.52
46:LL:309:ARG:NH1	46:LL:426:GLN:O	2.42	0.52
46:LL:318:ARG:NE	46:LL:356:ILE:O	2.35	0.52
45:LM:271:SER:HB3	45:LM:377:MET:HB3	1.90	0.52
45:MC:55:GLU:CD	45:MC:57:GLY:H	2.17	0.52
45:MC:398:MET:SD	46:MD:345:ILE:HD12	2.49	0.52
45:MG:147:SER:HB2	45:MG:190:SER:OG	2.08	0.52
45:MK:174:SER:HB3	45:MK:177:VAL:O	2.08	0.52
46:ML:318:ARG:HH11	46:ML:358:PRO:HG3	1.74	0.52
45:MM:68:LEU:HD13	45:MM:93:ILE:HB	1.90	0.52
45:NA:210:TYR:CD2	46:NB:324:LYS:HD3	2.44	0.52
45:NE:118:CYS:O	45:NE:122:ILE:HG12	2.09	0.52
46:NF:116:VAL:HA	46:NF:119:VAL:HG12	1.91	0.52
45:NG:2:ARG:HB2	45:NG:133:GLN:HE22	1.74	0.52
45:NG:234:VAL:HG21	45:NG:302:MET:HE2	1.91	0.52
45:NK:181:VAL:HG13	45:NK:182:VAL:HG13	1.92	0.52
45:OA:256:GLN:CD	45:OA:256:GLN:H	2.17	0.52
45:OE:323:VAL:HG22	45:OE:373:ARG:HG2	1.91	0.52
46:OF:19:LYS:NZ	46:OF:22:GLU:HG3	2.23	0.52
46:OF:156:ARG:NH1	46:OF:195:ASN:O	2.42	0.52
46:OF:200:MET:SD	46:OF:266:PHE:HB2	2.48	0.52
45:OG:60:LYS:NZ	45:OG:86:LEU:O	2.32	0.52
45:OG:311:LYS:HD2	45:OG:343:PHE:C	2.33	0.52
45:OI:178:SER:HB2	46:OJ:347:ASN:ND2	2.24	0.52
45:PK:120:ASP:HB3	45:PK:124:LYS:NZ	2.25	0.52
46:PL:260:PHE:HB2	46:PL:263:LEU:HD13	1.90	0.52
45:PM:427:ALA:HA	45:PM:430:LYS:HG2	1.91	0.52
46:QB:27:GLU:OE2	46:QB:241:ARG:NH1	2.41	0.52
45:QE:332:ILE:HA	45:QE:335:ILE:HG12	1.90	0.52
46:QJ:217:LEU:HD23	46:QJ:219:THR:H	1.74	0.52
46:QL:86:ARG:HD3	46:RL:282:ARG:HH12	1.73	0.52
45:QM:34:GLY:O	45:QM:60:LYS:HG2	2.08	0.52
45:QM:47:ASP:OD1	45:QM:48:ALA:N	2.35	0.52
45:RA:254:GLU:OE2	46:RB:99:ASN:ND2	2.42	0.52
45:RC:296:PHE:CE1	45:RC:377:MET:HE2	2.45	0.52
46:RF:344:TRP:HB3	46:RF:430:ALA:HB2	1.91	0.52
45:RG:262:TYR:HB2	45:RG:265:ILE:HG12	1.90	0.52
45:RG:265:ILE:HG22	45:RG:432:TYR:CE1	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SB:200:MET:HE2	46:SB:268:ILE:HD13	1.91	0.52
45:SE:72:PRO:HA	45:SE:75:ILE:HG22	1.89	0.52
46:SF:111:GLU:N	46:SF:111:GLU:OE1	2.42	0.52
46:SJ:258:ILE:HD11	45:SK:407:TRP:CZ2	2.42	0.52
45:SM:75:ILE:HD12	45:SM:75:ILE:H	1.74	0.52
45:TC:101:ASN:HA	45:TC:144:GLY:H	1.75	0.52
45:TC:171:ILE:HG13	45:TC:171:ILE:O	2.08	0.52
46:TF:200:MET:HE2	46:TF:268:ILE:HD13	1.90	0.52
45:TG:188:ILE:HD12	45:TG:425:LEU:HD11	1.90	0.52
45:UC:319:TYR:HB3	45:UC:323:VAL:HG11	1.91	0.52
45:UE:352:LYS:HZ1	46:UF:179:VAL:HG22	1.74	0.52
46:UH:73:MET:HA	46:UH:76:VAL:HG12	1.91	0.52
46:UH:344:TRP:CD2	45:UI:401:LYS:HE3	2.45	0.52
45:UI:339:ARG:O	45:UI:342:GLN:NE2	2.42	0.52
46:UJ:350:LYS:HE2	45:UK:181:VAL:HG13	1.91	0.52
45:UK:3:GLU:OE2	45:UK:131:GLY:N	2.42	0.52
45:UK:90:GLU:O	45:UK:121:ARG:NH1	2.42	0.52
45:UM:10:GLY:O	45:UM:14:ILE:HG12	2.09	0.52
45:VC:107:HIS:HA	45:VC:152:LEU:HD11	1.90	0.52
45:VE:222:PRO:O	46:VF:324:LYS:HD3	2.09	0.52
45:VG:96:LYS:HE2	46:VH:1:MET:SD	2.48	0.52
46:VH:128:ASP:OD1	46:VH:129:CYS:N	2.42	0.52
46:VJ:284:LEU:HB3	46:VJ:363:MET:HE2	1.91	0.52
45:VK:49:PHE:O	45:VK:53:PHE:N	2.37	0.52
46:VL:163:ILE:HG13	46:VL:251:ARG:HH21	1.72	0.52
46:VN:31:ASP:OD1	46:VN:35:THR:N	2.36	0.52
46:VN:68:LEU:HG	46:VN:96:GLY:H	1.74	0.52
45:WE:349:THR:HG21	46:WH:181:GLU:OE2	2.09	0.52
46:WF:73:MET:HE1	46:WF:92:PHE:HB3	1.91	0.52
45:WG:331:SER:O	45:WG:335:ILE:HG12	2.09	0.52
45:WI:145:THR:HG22	47:WI:501:GTP:PG	2.49	0.52
46:WL:65:LEU:HD11	46:WL:85:PHE:CD2	2.43	0.52
45:WM:407:TRP:HE1	46:WN:255:VAL:HG22	1.73	0.52
46:WN:16:ILE:HA	46:WN:226:ASN:HD22	1.74	0.52
46:WN:254:ALA:O	46:WN:258:ILE:HG22	2.10	0.52
45:DC:230:LEU:O	45:DC:234:VAL:HG23	2.09	0.52
3:0C:70:HIS:NE2	3:0C:76:PRO:HD3	2.24	0.52
5:0E:178:ASP:OD1	5:0E:179:ASP:N	2.42	0.52
7:0G:14:ARG:O	7:0G:17:VAL:HG12	2.10	0.52
13:0U:172:ILE:HG23	13:0U:185:LEU:HB3	1.91	0.52
13:0U:453:TRP:HE1	13:0U:469:ALA:HB2	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:1B:249:ILE:O	16:1B:253:LYS:HG2	2.09	0.52
8:1H:180:MET:HA	8:1H:183:GLU:OE2	2.09	0.52
19:1J:122:ARG:HE	19:1J:123:MET:H	1.55	0.52
19:1J:337:ASN:OD1	19:1J:338:TYR:N	2.42	0.52
21:1L:274:LYS:HB2	21:1L:378:ARG:HH21	1.74	0.52
22:1M:10:VAL:HG21	22:1M:71:LEU:HB3	1.91	0.52
22:1M:236:THR:HG23	22:1M:353:THR:HG22	1.92	0.52
24:1P:268:LYS:O	24:1P:272:ILE:HD12	2.09	0.52
13:1U:62:THR:HG21	13:1U:108:LEU:HB2	1.91	0.52
14:1V:251:LEU:O	14:1V:255:ILE:HG12	2.10	0.52
26:1W:231:PHE:O	26:1W:235:THR:HG23	2.09	0.52
16:2B:93:ILE:HG22	16:2B:174:ASN:HD22	1.74	0.52
30:2H:171:LEU:HD13	30:2H:175:MET:HE1	1.91	0.52
20:2K:448:LEU:HB3	20:2K:452:ARG:NH2	2.24	0.52
21:2L:546:GLN:HG2	45:BM:279:GLU:OE1	2.08	0.52
9:2N:8:ARG:NH1	9:2N:9:LYS:H	2.07	0.52
9:2N:15:ARG:HD3	9:2N:19:TRP:CE2	2.45	0.52
10:2Q:1:MET:H3	10:2Q:3:LYS:HG2	1.73	0.52
25:2R:60:LYS:NZ	30:3H:220:ARG:H	2.07	0.52
14:2V:142:ILE:HD11	45:LG:402:ARG:HE	1.73	0.52
23:3O:336:ASP:OD1	23:3O:339:ARG:NH2	2.42	0.52
10:3Q:36:ARG:HA	10:3Q:47:LEU:HA	1.91	0.52
11:3S:111:LYS:HZ1	46:MN:158:GLU:HB2	1.75	0.52
12:3T:92:ASP:O	12:3T:96:GLN:HG2	2.09	0.52
15:3X:98:ALA:O	15:3X:101:GLU:HG3	2.10	0.52
43:8P:269:UNK:C	46:QD:276:ARG:HH22	2.23	0.52
45:AA:135:PHE:HB2	45:AA:166:LYS:HG3	1.92	0.52
45:AM:386:GLU:O	45:AM:390:ARG:HG3	2.09	0.52
45:BE:101:ASN:HD22	45:BE:143:GLY:HA2	1.73	0.52
45:BE:294:SER:HA	45:BE:297:GLU:HG3	1.90	0.52
46:BH:362:LYS:HE2	46:BH:362:LYS:HA	1.91	0.52
45:BK:313:MET:HE2	45:BK:382:THR:HG22	1.90	0.52
45:DA:408:TYR:HB3	45:DA:413:MET:HE2	1.91	0.52
46:DF:152:ILE:HG23	46:DF:164:MET:HE1	1.90	0.52
46:DF:302:ALA:HB3	46:DF:377:MET:HE1	1.91	0.52
46:DH:8:GLN:HE21	46:DH:65:LEU:HD22	1.74	0.52
46:DL:7:ILE:HG13	46:DL:64:ILE:HD13	1.91	0.52
45:EA:268:MET:HB2	45:EA:379:SER:O	2.08	0.52
45:EC:209:ILE:CG2	45:EC:302:MET:HB2	2.38	0.52
45:EE:133:GLN:HG3	45:EE:242:LEU:HD11	1.90	0.52
46:EL:1:MET:SD	46:EL:2:ARG:HG2	2.49	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EL:238:CYS:SG	46:EL:239:CYS:N	2.82	0.52
45:EM:55:GLU:OE1	45:EM:61:HIS:NE2	2.42	0.52
45:EM:155:GLU:HA	45:EM:197:HIS:CE1	2.44	0.52
46:FN:12:CYS:HA	46:FN:15:GLN:HE21	1.74	0.52
46:FN:24:ILE:HD12	46:FN:241:ARG:HH12	1.73	0.52
45:GA:217:LEU:HB3	45:GA:219:ILE:HG13	1.91	0.52
45:GC:93:ILE:HD11	45:GC:121:ARG:HG3	1.89	0.52
45:GG:184:PRO:O	45:GG:188:ILE:HG12	2.09	0.52
45:GG:387:VAL:HG12	45:GG:390:ARG:NH2	2.23	0.52
45:GI:11:GLN:HG3	45:GI:74:VAL:HG11	1.90	0.52
46:GJ:55:THR:HG23	46:HJ:283:ALA:HA	1.91	0.52
45:HA:174:SER:HB2	45:HA:177:VAL:HB	1.91	0.52
46:HD:406:MET:O	46:HD:410:GLU:HG2	2.09	0.52
46:HL:68:LEU:HB3	46:HL:96:GLY:HA2	1.90	0.52
45:HM:271:SER:HA	45:HM:302:MET:HG2	1.91	0.52
46:ID:267:MET:HE1	46:ID:303:ALA:HB3	1.92	0.52
45:IE:97:GLU:CD	45:IE:105:ARG:HH12	2.17	0.52
45:IE:272:TYR:HD1	45:IE:275:ILE:HD11	1.74	0.52
45:IK:419:SER:O	45:IK:423:GLU:HG2	2.09	0.52
46:IL:190:HIS:ND1	46:IL:191:GLN:OE1	2.36	0.52
46:IL:295:ASP:OD1	46:IL:297:LYS:HG2	2.09	0.52
46:JB:206:ALA:O	46:JB:210:ILE:HG12	2.09	0.52
45:JC:223:THR:HG23	45:JC:225:THR:H	1.74	0.52
46:JF:330:MET:HE3	46:JF:351:SER:HB3	1.92	0.52
45:KC:172:TYR:OH	45:KC:191:THR:OG1	2.22	0.52
45:KE:17:GLY:HA2	45:KE:20:CYS:SG	2.50	0.52
45:KK:79:ARG:O	45:KK:84:ARG:HG2	2.10	0.52
45:KK:271:SER:HB3	45:KK:377:MET:HB3	1.91	0.52
46:KN:113:ILE:HD13	46:KN:150:LEU:HD22	1.89	0.52
46:KN:423:GLN:OE1	46:KN:426:GLN:NE2	2.42	0.52
45:LA:346:TRP:CD1	46:LD:391:ARG:HG3	2.44	0.52
46:LB:26:ASP:O	46:LB:359:LYS:NZ	2.36	0.52
46:LB:156:ARG:HD3	46:LB:164:MET:HG3	1.91	0.52
45:LE:188:ILE:HD11	45:LE:391:LEU:HB3	1.91	0.52
45:LK:177:VAL:HA	46:LL:331:LEU:HD21	1.92	0.52
45:LK:254:GLU:HG2	46:LN:98:GLY:HA2	1.91	0.52
46:LL:171:PRO:HB2	46:LL:181:GLU:OE2	2.09	0.52
46:LN:91:VAL:HG21	46:LN:116:VAL:HB	1.90	0.52
45:MA:171:ILE:HG13	45:MA:204:LEU:HB2	1.90	0.52
46:MB:113:ILE:HA	46:MB:116:VAL:HG12	1.90	0.52
46:MF:91:VAL:HG21	46:MF:116:VAL:HB	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MG:221:ARG:NH1	46:MH:325:GLU:OE1	2.38	0.52
46:MN:267:MET:HE2	46:MN:299:MET:HE2	1.90	0.52
46:NL:225:LEU:O	46:NL:229:VAL:HG23	2.08	0.52
46:OH:130:LEU:HD21	46:OH:133:PHE:CE1	2.44	0.52
46:OH:175:VAL:HG22	46:OH:205:GLU:CD	2.35	0.52
45:OI:8:HIS:CD2	45:OI:17:GLY:HA3	2.43	0.52
45:OK:320:ARG:CZ	45:OK:360:PRO:HA	2.38	0.52
45:OM:141:VAL:HG22	45:OM:187:SER:HA	1.90	0.52
46:ON:267:MET:HB3	46:ON:299:MET:HE2	1.91	0.52
46:PD:97:ALA:HA	46:PD:103:LYS:HD2	1.91	0.52
45:PK:141:VAL:HG11	45:PK:172:TYR:HD1	1.73	0.52
46:QB:268:ILE:HG13	46:QB:300:MET:HE2	1.92	0.52
46:QH:46:ARG:NH2	45:QI:76:ASP:OD2	2.39	0.52
45:QI:239:THR:HG23	45:QI:243:ARG:HE	1.73	0.52
45:QI:319:TYR:HB3	45:QI:323:VAL:HG11	1.91	0.52
46:QJ:321:MET:HA	46:QJ:321:MET:HE2	1.91	0.52
46:RF:267:MET:HE1	46:RF:299:MET:HG3	1.92	0.52
45:RG:209:ILE:HD12	45:RG:227:LEU:HB3	1.91	0.52
45:RG:359:PRO:HB2	45:RG:370:LYS:HZ3	1.74	0.52
46:RL:153:SER:HB2	46:RL:191:GLN:NE2	2.23	0.52
46:RL:255:VAL:HG21	45:RM:100:ALA:O	2.09	0.52
46:RL:320:ARG:NH1	46:RL:355:ASP:O	2.39	0.52
46:SB:324:LYS:HD2	45:SC:222:PRO:HG2	1.91	0.52
45:SC:102:ASN:HB3	45:SC:105:ARG:HG3	1.90	0.52
45:SE:102:ASN:ND2	45:SE:105:ARG:HG3	2.24	0.52
46:SF:257:LEU:HD21	46:SF:314:SER:HB3	1.92	0.52
45:SG:69:ASP:OD1	45:SG:70:LEU:N	2.42	0.52
46:SH:1:MET:HE2	45:SI:72:PRO:HG2	1.91	0.52
46:SH:148:GLY:O	46:SH:152:ILE:HD12	2.09	0.52
45:SM:97:GLU:HG2	45:SM:105:ARG:HH22	1.73	0.52
45:SM:231:ILE:O	45:SM:235:ILE:HD12	2.08	0.52
46:TD:403:MET:HE1	46:TD:408:PHE:HE1	1.74	0.52
45:TG:332:ILE:HD12	45:TG:351:PHE:CD2	2.44	0.52
46:TL:116:VAL:O	46:TL:120:VAL:HG23	2.09	0.52
46:TL:330:MET:HE2	46:TL:349:ILE:HB	1.91	0.52
45:UC:79:ARG:NH2	45:UC:89:PRO:O	2.41	0.52
45:UG:260:VAL:HB	46:UH:397:TRP:HZ2	1.75	0.52
46:UL:346:PRO:HD2	45:UM:398:MET:HE1	1.92	0.52
45:UM:70:LEU:HD13	45:UM:95:GLY:HA3	1.90	0.52
45:UM:121:ARG:NE	45:UM:124:LYS:HE3	2.25	0.52
46:UN:178:THR:O	46:UN:181:GLU:HG2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VA:88:HIS:HD2	45:VA:90:GLU:HG3	1.74	0.52
45:VK:336:LYS:O	45:VK:339:ARG:NH2	2.42	0.52
45:VK:348:PRO:HD3	46:VN:388:MET:HE1	1.91	0.52
45:VK:427:ALA:HA	45:VK:430:LYS:HZ2	1.74	0.52
46:WB:376:GLU:OE2	46:WB:380:ARG:NE	2.42	0.52
45:WC:317:MET:HE1	45:WC:351:PHE:CD1	2.44	0.52
46:WF:350:LYS:HZ3	46:WF:352:SER:HG	1.48	0.52
45:WI:329:ASN:HA	45:WI:332:ILE:HG12	1.90	0.52
46:WJ:86:ARG:HG3	46:WJ:88:ASP:OD1	2.09	0.52
45:WK:107:HIS:HA	45:WK:152:LEU:HD11	1.90	0.52
45:WK:326:LYS:HD2	45:WK:326:LYS:N	2.24	0.52
45:WM:391:LEU:HA	45:WM:394:LYS:HZ3	1.74	0.52
46:WN:239:CYS:SG	46:WN:247:ASN:HA	2.49	0.52
1:0A:36:ARG:HE	45:MA:77:GLU:HG2	1.75	0.52
2:0B:142:HIS:C	2:0B:144:GLU:H	2.16	0.52
2:0B:164:THR:HG23	2:0B:169:PHE:HZ	1.73	0.52
6:0F:79:ASN:OD1	6:0F:80:TYR:N	2.42	0.52
10:0Q:34:ILE:HD12	10:0Q:49:ILE:HG22	1.91	0.52
13:0U:515:THR:HG22	13:0U:526:ARG:NH1	2.24	0.52
15:0X:50:GLU:HB3	15:0X:54:ARG:HH22	1.74	0.52
15:0X:87:ASP:HA	15:0X:90:ARG:HG2	1.91	0.52
1:1A:35:TYR:HD1	1:1A:47:PRO:HA	1.75	0.52
18:1I:38:ILE:HG21	18:1I:42:ALA:HB2	1.90	0.52
19:1J:139:LYS:HG3	45:IE:372:MET:SD	2.49	0.52
21:1L:626:ARG:HA	21:1L:629:GLU:HG3	1.91	0.52
11:1S:249:VAL:HA	11:1S:252:TYR:CE2	2.45	0.52
12:1T:121:ALA:H	12:1T:199:ARG:CG	2.22	0.52
14:1V:133:TYR:CD2	46:LL:421:GLU:HA	2.43	0.52
27:2C:79:ASP:OD2	27:2C:82:GLN:HA	2.10	0.52
20:2K:235:SER:O	20:2K:238:LYS:HG3	2.09	0.52
20:2K:269:GLU:HA	20:2K:272:GLU:HG2	1.90	0.52
9:2N:10:TYR:HD1	9:2N:16:ILE:HD13	1.74	0.52
9:2N:15:ARG:HG2	46:IB:45:GLU:OE2	2.09	0.52
9:2N:77:GLU:OE1	9:2N:273:ARG:NH2	2.42	0.52
23:2O:368:GLU:HG3	45:VC:370:LYS:HZ3	1.74	0.52
23:2O:448:GLU:O	23:2O:452:ILE:HG12	2.10	0.52
24:2P:382:ASP:OD2	24:2P:383:GLU:N	2.42	0.52
24:2P:384:SER:HB3	45:TM:370:LYS:HE2	1.90	0.52
25:2R:463:PHE:HD2	25:2R:464:LEU:HG	1.73	0.52
12:2T:75:PHE:HD2	12:2T:105:ARG:HE	1.56	0.52
27:3C:32:VAL:HG11	27:3C:179:LEU:HD12	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:3C:237:LEU:HB3	27:3C:257:MET:SD	2.50	0.52
21:3L:61:VAL:H	21:3L:96:VAL:HG22	1.75	0.52
23:3O:271:ALA:HB1	45:UM:278:ALA:HB1	1.91	0.52
10:3Q:6:PHE:CE2	10:3Q:8:SER:HB3	2.44	0.52
25:3R:344:GLY:HA3	25:3R:364:GLY:HA2	1.91	0.52
13:3U:151:GLN:NE2	13:3U:152:ILE:O	2.42	0.52
33:4F:141:ARG:CZ	45:IK:357:TYR:HB2	2.39	0.52
34:4R:469:LYS:HZ2	34:4R:472:GLU:HA	1.75	0.52
37:5H:78:LEU:HA	37:5H:81:MET:SD	2.49	0.52
37:5H:113:LEU:HD22	45:NM:84:ARG:HD3	1.91	0.52
10:5Q:92:GLN:O	10:5Q:152:LEU:N	2.41	0.52
39:6F:130:SER:O	46:IH:359:LYS:NZ	2.39	0.52
10:6Q:1:MET:O	10:6Q:3:LYS:NZ	2.39	0.52
10:6Q:104:ARG:HH12	10:6Q:157:HIS:CD2	2.27	0.52
45:AE:317:MET:HE1	45:AE:319:TYR:CZ	2.44	0.52
46:AF:378:PHE:HB3	46:AF:415:MET:HE3	1.91	0.52
45:AI:328:VAL:O	45:AI:332:ILE:HG12	2.10	0.52
46:AJ:268:ILE:HG13	46:AJ:300:MET:HG3	1.89	0.52
45:AM:358:GLN:NE2	45:AM:359:PRO:O	2.42	0.52
46:AN:83:GLN:O	46:AN:86:ARG:NH2	2.38	0.52
45:BA:242:LEU:HD11	45:BA:252:ILE:HG23	1.91	0.52
45:BE:275:ILE:HA	45:BE:368:LEU:HD11	1.91	0.52
46:BJ:18:ALA:O	46:BJ:22:GLU:HG3	2.09	0.52
45:BK:150:GLY:O	45:BK:154:LEU:HD23	2.09	0.52
45:BM:216:ASN:HB3	45:BM:275:ILE:O	2.10	0.52
46:BN:247:ASN:O	46:BN:252:LYS:NZ	2.33	0.52
46:CB:381:VAL:HA	46:CB:384:GLN:HG2	1.91	0.52
46:CF:12:CYS:O	46:CF:16:ILE:HG12	2.10	0.52
45:CG:55:GLU:HG3	45:CG:57:GLY:H	1.74	0.52
46:CH:209:ASP:OD1	46:CH:213:ARG:HD3	2.08	0.52
45:CI:206:ASN:OD1	47:CI:501:GTP:N2	2.41	0.52
46:CL:325:GLU:OE1	45:CM:221:ARG:NH1	2.42	0.52
45:CM:174:SER:HB2	45:CM:177:VAL:O	2.10	0.52
45:CM:207:GLU:HA	45:CM:210:TYR:CG	2.44	0.52
45:DA:36:MET:HB3	45:DA:61:HIS:CE1	2.44	0.52
46:DB:97:ALA:HA	46:DB:103:LYS:HG2	1.91	0.52
46:DD:334:GLN:HA	46:DD:341:PHE:HE2	1.73	0.52
45:DE:174:SER:HB3	45:DE:177:VAL:O	2.10	0.52
46:DF:332:ASN:OD1	46:DF:336:LYS:HD2	2.10	0.52
46:DF:344:TRP:CG	45:DG:401:LYS:HZ3	2.28	0.52
45:DI:74:VAL:HG23	45:DI:75:ILE:HD12	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DM:231:ILE:O	45:DM:235:ILE:HG12	2.10	0.52
46:EB:318:ARG:HB3	46:EB:357:PRO:HA	1.90	0.52
46:EJ:267:MET:HE1	46:EJ:305:PRO:HB3	1.91	0.52
45:FA:231:ILE:O	45:FA:235:ILE:HG12	2.09	0.52
45:FI:101:ASN:HD22	46:FJ:252:LYS:HD2	1.74	0.52
46:FL:3:GLU:H	46:FL:3:GLU:CD	2.18	0.52
46:FL:97:ALA:HA	46:FL:103:LYS:HD2	1.91	0.52
46:FN:260:PHE:HB2	46:FN:263:LEU:HD13	1.89	0.52
46:GB:260:PHE:HB2	46:GB:263:LEU:HD13	1.92	0.52
46:GF:148:GLY:O	46:GF:152:ILE:HG12	2.09	0.52
45:GK:155:GLU:HA	45:GK:197:HIS:CE1	2.44	0.52
46:HD:2:ARG:HB2	46:HD:131:GLN:NE2	2.25	0.52
46:HD:67:ASP:HB3	46:HD:73:MET:HE1	1.90	0.52
46:HD:179:VAL:HG23	46:HD:180:VAL:HG23	1.91	0.52
46:IB:282:ARG:NH2	46:IB:292:GLN:OE1	2.33	0.52
45:IC:317:MET:C	45:IC:318:MET:HE2	2.34	0.52
45:IE:324:VAL:HG11	45:IE:326:LYS:NZ	2.24	0.52
46:IF:273:LEU:H	46:IF:292:GLN:NE2	2.04	0.52
46:IH:148:GLY:O	46:IH:152:ILE:HG12	2.09	0.52
45:IM:392:ASP:OD1	45:IM:422:ARG:NE	2.41	0.52
45:JA:259:LEU:HD21	45:JA:316:SER:HB3	1.91	0.52
45:JA:387:VAL:HA	45:JA:390:ARG:HG2	1.91	0.52
45:JC:286:LEU:N	45:JC:290:GLU:OE1	2.42	0.52
46:JD:290:THR:HA	46:JD:293:MET:HG3	1.90	0.52
45:JE:335:ILE:O	45:JE:338:LYS:HG2	2.09	0.52
45:JI:17:GLY:HA2	45:JI:20:CYS:SG	2.49	0.52
46:JJ:213:ARG:NH2	46:JJ:297:LYS:HB3	2.24	0.52
46:KB:150:LEU:O	46:KB:154:LYS:HG2	2.10	0.52
45:KI:325:PRO:HA	45:KI:328:VAL:HG22	1.91	0.52
45:KM:136:LEU:HD23	45:KM:167:LEU:HB2	1.91	0.52
46:KN:207:LEU:HB3	46:KN:225:LEU:HD22	1.91	0.52
45:LA:288:VAL:HA	45:LA:291:ILE:HG12	1.90	0.52
46:LD:380:ARG:O	46:LD:383:GLU:HG3	2.08	0.52
46:LH:73:MET:CE	46:LH:90:PHE:HB3	2.39	0.52
45:MA:11:GLN:NE2	46:MB:245:GLN:O	2.42	0.52
46:MB:207:LEU:HB3	46:MB:225:LEU:HD22	1.91	0.52
45:MI:427:ALA:O	45:MI:430:LYS:HB3	2.10	0.52
46:ML:293:MET:HE3	46:ML:367:PHE:HB2	1.90	0.52
46:MN:200:MET:HG3	46:MN:266:PHE:HB2	1.91	0.52
46:NB:200:MET:HE1	46:NB:266:PHE:CD2	2.43	0.52
46:NB:303:ALA:HB2	46:NB:377:MET:HE1	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NC:88:HIS:HD2	45:NC:90:GLU:HG3	1.74	0.52
45:OA:27:GLU:HG2	45:OA:361:THR:HG21	1.91	0.52
45:OA:31:GLN:NE2	45:OA:35:GLN:O	2.42	0.52
45:OA:200:VAL:HG13	45:OA:268:MET:HE1	1.91	0.52
45:OA:256:GLN:HG2	46:OD:397:TRP:CH2	2.40	0.52
45:OC:121:ARG:CZ	45:OC:124:LYS:HD2	2.40	0.52
46:OF:303:ALA:HB2	46:OF:377:MET:HE1	1.91	0.52
46:OL:186:THR:HA	46:OL:189:VAL:HG12	1.91	0.52
45:OM:328:VAL:HG11	45:OM:353:VAL:HG21	1.91	0.52
45:PC:2:ARG:NH2	45:PC:242:LEU:O	2.43	0.52
46:PD:2:ARG:HB2	46:PD:131:GLN:HE21	1.74	0.52
45:PE:210:TYR:HD1	46:PF:324:LYS:HG3	1.74	0.52
46:PF:272:PRO:HB2	46:PF:282:ARG:HH22	1.73	0.52
45:PG:276:ILE:HD11	45:PG:280:LYS:HG3	1.91	0.52
45:PI:384:ILE:O	45:PI:387:VAL:HG22	2.10	0.52
45:PM:90:GLU:HG3	45:PM:121:ARG:HH22	1.74	0.52
46:QB:150:LEU:HB2	46:QB:154:LYS:NZ	2.24	0.52
46:QL:273:LEU:N	46:QL:292:GLN:HE22	2.02	0.52
46:QN:67:ASP:O	46:QN:92:PHE:HA	2.09	0.52
45:RC:417:GLU:HA	45:RC:420:GLU:CD	2.35	0.52
45:RE:296:PHE:CE2	45:RE:335:ILE:HD12	2.43	0.52
46:RF:287:PRO:HA	46:RF:329:GLN:NE2	2.24	0.52
46:RH:221:THR:HG23	46:RH:224:ASP:H	1.75	0.52
46:RJ:183:TYR:HD1	46:RJ:385:PHE:CE1	2.27	0.52
46:RL:153:SER:HB2	46:RL:191:GLN:HE22	1.75	0.52
46:RN:86:ARG:NH1	46:SN:278:SER:HA	2.25	0.52
46:SB:117:LEU:HD12	46:SB:154:LYS:HE2	1.91	0.52
46:SD:54:ALA:HA	46:TD:283:ALA:HB2	1.90	0.52
46:SJ:289:LEU:HD13	46:SJ:365:VAL:HG23	1.91	0.52
46:SL:200:MET:CE	46:SL:266:PHE:HB2	2.39	0.52
45:SM:91:GLN:HB3	45:SM:121:ARG:CZ	2.40	0.52
45:TG:56:THR:HG23	45:TG:58:ALA:H	1.74	0.52
46:TH:138:SER:HA	46:TH:169:VAL:HB	1.92	0.52
45:TI:101:ASN:HA	45:TI:144:GLY:H	1.75	0.52
45:TM:11:GLN:H	47:TM:501:GTP:PB	2.32	0.52
45:UA:340:THR:HG23	45:UA:341:ILE:HG13	1.91	0.52
46:UB:22:GLU:HG2	46:UB:81:PHE:HB2	1.92	0.52
46:UD:254:ALA:O	46:UD:258:ILE:HG22	2.09	0.52
45:UE:227:LEU:O	45:UE:231:ILE:HG12	2.10	0.52
45:UE:287:SER:O	45:UE:290:GLU:HG2	2.10	0.52
46:UJ:148:GLY:O	46:UJ:152:ILE:HG12	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VB:44:LEU:HA	46:VB:47:ILE:HG23	1.91	0.52
45:VC:222:PRO:O	46:VD:324:LYS:HD3	2.09	0.52
46:VD:77:ARG:NH2	46:VD:83:GLN:OE1	2.42	0.52
46:VD:217:LEU:HB2	46:VD:220:PRO:HG3	1.91	0.52
45:VE:90:GLU:OE2	45:VE:121:ARG:NH1	2.42	0.52
45:VI:346:TRP:CD1	46:VL:391:ARG:HG3	2.44	0.52
46:VL:55:THR:HG23	46:WL:283:ALA:HA	1.91	0.52
46:WB:376:GLU:HA	46:WB:379:LYS:HE2	1.92	0.52
46:WJ:167:PHE:CZ	46:WJ:200:MET:HG3	2.45	0.52
46:WN:290:THR:HA	46:WN:293:MET:HG3	1.91	0.52
46:WN:309:ARG:N	46:WN:372:THR:OG1	2.38	0.52
2:0B:107:HIS:CG	22:2M:222:LYS:HE2	2.44	0.52
11:0S:85:GLN:NE2	13:0U:290:TYR:O	2.42	0.52
12:0T:137:SER:H	12:0T:140:GLN:NE2	2.07	0.52
13:0U:578:ILE:HD11	13:0U:592:SER:HB2	1.91	0.52
14:0V:46:PRO:HG2	45:LM:114:ILE:HD11	1.91	0.52
1:1A:131:ILE:HD13	46:AF:39:ASP:HB3	1.90	0.52
3:1C:62:TYR:HA	3:1C:65:VAL:HG12	1.91	0.52
4:1D:56:LYS:O	4:1D:57:THR:OG1	2.21	0.52
5:1E:160:GLN:NE2	5:1E:162:LYS:H	2.07	0.52
18:1I:38:ILE:HD13	18:1I:42:ALA:HB2	1.91	0.52
20:1K:108:ILE:HA	20:1K:111:LYS:HZ3	1.73	0.52
9:1N:68:VAL:HG12	9:1N:131:ILE:HD13	1.90	0.52
25:1R:112:GLU:OE2	46:BF:279:GLN:NE2	2.41	0.52
25:1R:390:ASP:OD2	46:ED:219:THR:OG1	2.27	0.52
14:1V:122:LYS:HD3	46:LL:390:ARG:NH1	2.25	0.52
26:1W:245:LEU:HD22	34:7R:17:PHE:CD2	2.45	0.52
26:1W:249:LYS:HA	26:1W:252:GLN:HG2	1.91	0.52
4:2D:119:LYS:HE3	25:3R:483:ASP:HA	1.90	0.52
5:2E:120:LEU:HD11	5:2E:159:ILE:HD13	1.92	0.52
9:2N:44:SER:O	9:2N:47:LYS:N	2.41	0.52
13:2U:287:THR:OG1	13:2U:291:THR:O	2.28	0.52
13:2U:446:LYS:HD3	13:2U:476:TRP:CH2	2.45	0.52
26:2W:276:LYS:O	26:2W:276:LYS:HD3	2.09	0.52
5:3E:13:ARG:HE	5:3E:89:ARG:NH1	2.08	0.52
25:3R:237:GLU:O	25:3R:242:GLY:N	2.43	0.52
11:3S:309:MET:HA	11:3S:309:MET:HE3	1.90	0.52
36:5D:108:ARG:NH2	45:KM:396:ASP:OD2	2.39	0.52
40:6G:84:VAL:HB	40:6G:85:PRO:HD2	1.89	0.52
10:6Q:20:LYS:NZ	10:6Q:22:LEU:H	2.07	0.52
34:6R:389:ASN:OD1	34:6R:390:GLY:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AI:220:GLU:CD	45:AI:220:GLU:H	2.18	0.52
46:BB:178:THR:HB	46:BB:181:GLU:HG3	1.90	0.52
45:BE:36:MET:HG3	45:BE:37:PRO:HD2	1.91	0.52
45:BE:339:ARG:O	45:BE:342:GLN:NE2	2.42	0.52
46:BF:344:TRP:CE3	46:BF:345:ILE:HG23	2.45	0.52
46:BJ:102:ALA:HB1	46:BJ:401:GLU:OE2	2.10	0.52
46:BL:167:PHE:CE1	46:BL:233:MET:HG2	2.45	0.52
46:BN:66:MET:HE3	46:BN:151:LEU:HD13	1.90	0.52
46:BN:86:ARG:HE	46:BN:87:PRO:CD	2.18	0.52
45:CC:120:ASP:OD2	45:CC:121:ARG:NH2	2.41	0.52
45:CC:384:ILE:O	45:CC:387:VAL:HG12	2.09	0.52
46:CH:109:GLY:HA2	46:CH:147:MET:HE2	1.91	0.52
46:CH:268:ILE:HG22	46:CH:368:VAL:HG22	1.90	0.52
45:CI:258:ASN:ND2	45:CI:352:LYS:HE3	2.24	0.52
46:CL:175:VAL:HG22	46:CL:205:GLU:HB3	1.90	0.52
46:DF:260:PHE:HB2	46:DF:263:LEU:HD13	1.91	0.52
45:EE:88:HIS:CD2	45:EE:89:PRO:HD2	2.45	0.52
45:EI:188:ILE:HD12	45:EI:425:LEU:HD11	1.91	0.52
45:EI:212:ILE:HD11	45:EI:300:ASN:HA	1.91	0.52
46:EJ:257:LEU:HD12	46:EJ:312:THR:HG23	1.91	0.52
46:EJ:318:ARG:HD3	46:EJ:358:PRO:HD3	1.91	0.52
46:EL:133:PHE:HB2	46:EL:164:MET:HE1	1.91	0.52
45:EM:109:THR:HG22	45:EM:110:ILE:HG23	1.90	0.52
46:EN:54:ALA:HA	46:FN:283:ALA:HB2	1.92	0.52
45:FA:24:PHE:CZ	45:FA:52:PHE:HE2	2.27	0.52
45:FA:55:GLU:HG3	45:FA:57:GLY:H	1.74	0.52
45:FE:326:LYS:HD3	46:FH:219:THR:HG23	1.90	0.52
45:FI:288:VAL:HB	45:FI:373:ARG:HH22	1.74	0.52
46:FJ:44:LEU:HA	46:FJ:47:ILE:HG12	1.91	0.52
45:GG:285:GLN:HE22	45:GG:287:SER:HB2	1.74	0.52
46:GL:116:VAL:O	46:GL:120:VAL:HG23	2.10	0.52
45:HC:268:MET:HB2	45:HC:379:SER:O	2.10	0.52
46:HD:86:ARG:HB3	46:HD:89:ASN:OD1	2.08	0.52
46:HF:378:PHE:HA	46:HF:381:VAL:HG22	1.90	0.52
46:HF:407:GLU:OE1	46:HF:407:GLU:N	2.35	0.52
46:HJ:318:ARG:HH11	46:HJ:358:PRO:HG3	1.75	0.52
45:HK:184:PRO:O	45:HK:188:ILE:HG12	2.09	0.52
46:HL:3:GLU:H	46:HL:3:GLU:CD	2.16	0.52
46:HL:313:ALA:HB1	46:HL:367:PHE:HE1	1.74	0.52
46:IB:198:GLU:HG2	46:IB:266:PHE:HE2	1.75	0.52
46:ID:267:MET:HE2	46:ID:301:CYS:HB3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:IH:309:ARG:NH2	46:IH:426:GLN:O	2.35	0.52
46:IJ:280:GLN:OE1	46:IJ:280:GLN:N	2.42	0.52
46:JD:8:GLN:OE1	46:JD:17:GLY:HA3	2.09	0.52
46:JF:8:GLN:HE21	46:JF:14:ASN:HA	1.75	0.52
46:JF:55:THR:HG23	46:KF:283:ALA:HA	1.90	0.52
45:JG:117:LEU:HB3	45:JG:121:ARG:HH12	1.74	0.52
45:JI:119:LEU:HD11	45:JI:156:ARG:HB3	1.92	0.52
45:JI:147:SER:HB2	45:JI:190:SER:HB2	1.92	0.52
45:KC:88:HIS:NE2	45:LC:284:GLU:OE2	2.40	0.52
45:LA:171:ILE:O	45:LA:171:ILE:HG13	2.10	0.52
46:LF:267:MET:HE2	46:LF:299:MET:HG3	1.92	0.52
45:LG:265:ILE:HG22	45:LG:380:ASN:HD21	1.74	0.52
45:LI:259:LEU:HD21	45:LI:268:MET:HG2	1.92	0.52
46:MH:262:ARG:NH1	46:MH:421:GLU:OE1	2.43	0.52
46:MJ:133:PHE:HB2	46:MJ:164:MET:SD	2.49	0.52
45:NA:88:HIS:CE1	45:NA:90:GLU:HB2	2.44	0.52
46:NB:179:VAL:HG13	46:NB:180:VAL:HG13	1.90	0.52
46:NB:312:THR:HG22	46:NB:370:ASN:HB3	1.91	0.52
45:NC:141:VAL:HG22	45:NC:187:SER:HA	1.91	0.52
46:ND:299:MET:HE2	46:ND:299:MET:N	2.24	0.52
45:NG:325:PRO:HB2	46:NJ:208:TYR:OH	2.10	0.52
45:NI:192:HIS:CE1	45:NI:424:ASP:OD2	2.62	0.52
45:NI:419:SER:O	45:NI:423:GLU:HG2	2.10	0.52
46:NJ:4:ILE:HG13	46:NJ:132:GLY:O	2.10	0.52
46:NJ:200:MET:HE1	46:NJ:266:PHE:HB2	1.91	0.52
46:NN:135:ILE:HD12	46:NN:152:ILE:HD11	1.90	0.52
46:OF:178:THR:O	46:OF:181:GLU:HG2	2.09	0.52
45:OG:175:PRO:HG2	45:OG:304:LYS:HD2	1.91	0.52
46:OJ:203:ASP:OD2	46:OJ:302:ALA:N	2.38	0.52
45:OM:210:TYR:CE1	46:ON:324:LYS:HB3	2.44	0.52
46:PB:334:GLN:HA	46:PB:341:PHE:CE2	2.45	0.52
45:PG:181:VAL:N	46:PH:350:LYS:HZ3	2.06	0.52
46:PJ:139:LEU:HD12	46:PJ:170:VAL:HG12	1.90	0.52
46:QD:68:LEU:HD22	46:QD:97:ALA:HB2	1.91	0.52
45:QI:211:ASP:HA	45:QI:214:ARG:HG2	1.92	0.52
46:QJ:418:LEU:HD12	46:QJ:421:GLU:OE2	2.09	0.52
45:RC:195:LEU:HD23	45:RC:196:GLU:HG3	1.91	0.52
46:RH:20:PHE:HA	46:RH:230:SER:OG	2.09	0.52
46:RH:222:TYR:HA	46:RH:225:LEU:HG	1.90	0.52
45:RM:242:LEU:HD11	45:RM:252:ILE:HG13	1.92	0.52
46:RN:87:PRO:HA	46:RN:90:PHE:CD2	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SC:181:VAL:HG23	45:SC:182:VAL:HG13	1.90	0.52
46:SJ:229:VAL:HG12	46:SJ:233:MET:HE2	1.90	0.52
45:SM:292:THR:HG21	45:SM:331:SER:HB3	1.90	0.52
46:TD:97:ALA:HB3	46:TD:143:THR:HB	1.91	0.52
46:TD:148:GLY:O	46:TD:151:LEU:HG	2.10	0.52
46:TD:258:ILE:HD11	45:TE:407:TRP:HZ2	1.73	0.52
46:TH:119:VAL:O	46:TH:122:LYS:HG3	2.10	0.52
46:TH:405:GLU:HA	46:TH:408:PHE:HD1	1.74	0.52
45:TI:102:ASN:ND2	45:TI:105:ARG:HG3	2.24	0.52
45:TI:141:VAL:HG11	45:TI:172:TYR:CD1	2.43	0.52
46:TL:208:TYR:HE2	46:TL:225:LEU:HD11	1.74	0.52
46:TN:166:THR:HG21	46:TN:192:LEU:HD11	1.91	0.52
45:UC:251:ASP:OD1	45:UC:252:ILE:N	2.42	0.52
45:UE:230:LEU:O	45:UE:234:VAL:HG23	2.09	0.52
46:UJ:107:THR:OG1	46:UJ:108:GLU:OE1	2.25	0.52
45:VA:343:PHE:CZ	45:VA:351:PHE:HE1	2.27	0.52
46:VF:6:HIS:NE2	46:VF:8:GLN:OE1	2.43	0.52
46:VF:287:PRO:HA	46:VF:329:GLN:HE22	1.74	0.52
46:VF:318:ARG:HB3	46:VF:357:PRO:HA	1.90	0.52
45:VM:408:TYR:HD2	45:VM:418:PHE:HZ	1.56	0.52
46:VN:198:GLU:HG2	46:VN:266:PHE:HE2	1.72	0.52
46:VN:284:LEU:HD12	46:VN:289:LEU:HD21	1.92	0.52
46:WB:207:LEU:HD13	46:WB:225:LEU:HB2	1.90	0.52
45:WC:334:THR:C	45:WC:338:LYS:HZ3	2.17	0.52
45:WG:7:ILE:HB	45:WG:137:VAL:HG12	1.91	0.52
45:WG:56:THR:HG23	45:WG:58:ALA:H	1.74	0.52
45:WK:222:PRO:HD2	46:WL:324:LYS:HG3	1.90	0.52
46:WN:309:ARG:H	46:WN:372:THR:HG1	1.53	0.52
1:0A:104:ARG:HB2	34:7R:59:MET:HE2	1.92	0.52
3:0C:53:TYR:HB3	45:EI:221:ARG:NH2	2.24	0.52
7:0G:28:GLY:HA2	7:0G:31:MET:HB2	1.91	0.52
13:0U:81:GLN:HB2	13:0U:99:LYS:HD2	1.91	0.52
13:0U:497:LEU:HD13	13:0U:541:ILE:HD13	1.90	0.52
17:1F:23:THR:N	46:HL:320:ARG:HH12	2.07	0.52
18:1I:174:ILE:O	18:1I:175:THR:OG1	2.28	0.52
5:2E:118:ARG:HH22	34:5R:537:LYS:HE3	1.75	0.52
22:2M:91:LYS:HG2	22:2M:162:VAL:HG22	1.92	0.52
24:2P:335:ASP:O	24:2P:339:LYS:HG2	2.09	0.52
14:2V:24:ARG:HE	45:ME:430:LYS:NZ	2.06	0.52
30:3H:207:LYS:HG3	30:3H:208:ASN:H	1.74	0.52
30:3H:209:ARG:NE	30:3H:211:HIS:O	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:3Q:6:PHE:HE2	10:3Q:8:SER:HB3	1.73	0.52
11:3S:17:LYS:HA	11:3S:20:ASN:ND2	2.24	0.52
13:3U:54:HIS:CE1	13:3U:85:ILE:HD13	2.44	0.52
15:3X:82:GLY:HA2	15:3X:85:GLU:HG3	1.92	0.52
27:4C:65:PHE:CZ	45:LM:33:ASP:HB2	2.45	0.52
35:4S:154:SER:HB3	35:4S:157:ILE:HG22	1.91	0.52
37:5H:56:VAL:HG22	46:ON:276:ARG:HD3	1.92	0.52
34:5R:469:LYS:NZ	34:5R:472:GLU:HA	2.24	0.52
44:8R:122:ALA:HA	44:8R:125:TYR:CD2	2.44	0.52
46:AF:6:HIS:HE1	46:AF:8:GLN:HB3	1.75	0.52
46:AF:31:ASP:OD2	46:AF:35:THR:OG1	2.27	0.52
46:AJ:39:ASP:OD1	46:AJ:40:SER:N	2.43	0.52
45:BA:10:GLY:O	45:BA:14:ILE:HD12	2.09	0.52
45:BA:426:ALA:HB1	45:BA:430:LYS:HZ3	1.73	0.52
46:BF:65:LEU:HD22	46:BF:90:PHE:CE1	2.43	0.52
46:BH:68:LEU:HB3	46:BH:96:GLY:HA2	1.92	0.52
45:BI:36:MET:HE3	45:BI:37:PRO:HD2	1.90	0.52
46:BL:72:THR:O	46:BL:75:SER:OG	2.25	0.52
46:CD:293:MET:HE2	46:CD:367:PHE:HB2	1.90	0.52
46:CF:148:GLY:O	46:CF:152:ILE:HG12	2.08	0.52
46:CF:167:PHE:CG	46:CF:233:MET:HE3	2.44	0.52
45:CG:395:PHE:HZ	45:CG:418:PHE:HB3	1.75	0.52
46:CN:292:GLN:O	46:CN:298:ASN:ND2	2.36	0.52
46:CN:299:MET:HG3	46:CN:305:PRO:HG3	1.91	0.52
45:DA:244:PHE:HB2	45:DA:356:ASN:HD21	1.74	0.52
46:DL:183:TYR:CZ	46:DL:388:MET:HE2	2.45	0.52
46:DL:251:ARG:NH1	45:DM:97:GLU:OE2	2.43	0.52
45:DM:182:VAL:HG12	45:DM:404:PHE:CD2	2.45	0.52
46:ED:164:MET:HB2	46:ED:197:ASP:H	1.75	0.52
46:FF:21:TRP:CZ2	46:FF:63:ALA:HB2	2.44	0.52
45:FI:181:VAL:O	45:FI:398:MET:HE1	2.10	0.52
45:GC:417:GLU:HA	45:GC:420:GLU:HG2	1.91	0.52
45:GE:155:GLU:OE1	45:GE:197:HIS:NE2	2.42	0.52
46:GF:248:SER:HA	46:GF:252:LYS:HD2	1.92	0.52
46:GJ:389:PHE:O	46:GJ:392:LYS:NZ	2.39	0.52
47:HG:501:GTP:O1G	46:HH:252:LYS:NZ	2.37	0.52
45:HI:101:ASN:HA	45:HI:144:GLY:H	1.73	0.52
45:HK:119:LEU:HA	45:HK:122:ILE:HD12	1.91	0.52
45:IE:10:GLY:O	45:IE:14:ILE:HG12	2.09	0.52
45:IG:31:GLN:NE2	45:IG:37:PRO:HB3	2.24	0.52
45:II:301:MET:HA	45:II:301:MET:HE2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IM:90:GLU:OE2	45:IM:121:ARG:NH1	2.43	0.52
45:JG:175:PRO:HB2	45:JG:176:GLN:OE1	2.10	0.52
46:JH:296:ALA:HB1	46:JH:305:PRO:HD2	1.91	0.52
46:JN:16:ILE:HD12	46:JN:229:VAL:HG11	1.92	0.52
46:KB:68:LEU:HD23	46:KB:112:LEU:HD13	1.91	0.52
46:KD:208:TYR:HE1	46:KD:225:LEU:HD11	1.73	0.52
45:KG:431:ASP:O	45:KG:435:VAL:HG23	2.09	0.52
45:KI:17:GLY:HA2	45:KI:20:CYS:SG	2.50	0.52
46:KJ:326:VAL:O	46:KJ:330:MET:HG2	2.09	0.52
45:KK:90:GLU:HG3	45:KK:121:ARG:NH1	2.25	0.52
45:KK:377:MET:O	45:KK:378:ILE:HD13	2.10	0.52
45:KM:387:VAL:HG12	45:KM:390:ARG:HH22	1.75	0.52
46:KN:19:LYS:NZ	46:KN:223:GLY:O	2.33	0.52
45:LC:88:HIS:CE1	45:LC:90:GLU:HG2	2.45	0.52
45:LC:221:ARG:NH2	46:LD:321:MET:HA	2.16	0.52
45:LM:107:HIS:ND1	45:LM:107:HIS:O	2.43	0.52
46:MB:420:SER:O	46:MB:423:GLN:HG3	2.08	0.52
45:MC:296:PHE:HD2	45:MC:341:ILE:HD13	1.75	0.52
45:MC:408:TYR:HB3	45:MC:413:MET:HE2	1.92	0.52
46:MF:201:VAL:HG23	46:MF:301:CYS:SG	2.49	0.52
45:MG:362:VAL:HB	45:MG:370:LYS:HB3	1.90	0.52
45:MI:259:LEU:HD21	45:MI:316:SER:HB2	1.91	0.52
45:NC:11:GLN:NE2	46:ND:245:GLN:O	2.42	0.52
45:NG:102:ASN:OD1	45:NG:105:ARG:N	2.37	0.52
46:OB:269:GLY:HA2	46:OB:300:MET:HE1	1.92	0.52
46:OB:318:ARG:HD3	46:OB:358:PRO:HD3	1.91	0.52
45:OC:310:GLY:HA3	45:OC:383:ALA:HB2	1.91	0.52
46:OL:263:LEU:HD22	46:OL:422:TYR:HD1	1.74	0.52
45:PE:141:VAL:HG11	45:PE:172:TYR:HA	1.90	0.52
46:PF:153:SER:HB3	46:PF:154:LYS:HZ2	1.74	0.52
45:PI:100:ALA:HA	46:PJ:252:LYS:HG2	1.90	0.52
45:PK:296:PHE:HE1	45:PK:377:MET:HG3	1.73	0.52
45:PK:387:VAL:HA	45:PK:390:ARG:HG2	1.90	0.52
45:PM:170:THR:O	45:PM:204:LEU:HB2	2.09	0.52
45:QA:118:CYS:O	45:QA:122:ILE:HG12	2.09	0.52
45:QK:121:ARG:CZ	45:QK:121:ARG:HA	2.40	0.52
45:QM:83:TYR:HB3	45:QM:86:LEU:HD12	1.90	0.52
46:QN:260:PHE:HB2	46:QN:263:LEU:HD13	1.91	0.52
46:RB:375:GLN:HB2	46:RB:379:LYS:HZ2	1.75	0.52
46:RF:20:PHE:HA	46:RF:230:SER:OG	2.10	0.52
46:RF:101:TRP:HB2	46:RF:184:ASN:HB3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RF:258:ILE:HG13	45:RG:407:TRP:CZ2	2.44	0.52
46:RJ:347:ASN:HD21	45:RK:178:SER:CB	2.21	0.52
45:RK:20:CYS:HA	45:RK:232:ALA:HB1	1.90	0.52
46:RN:42:LEU:HA	46:RN:45:GLU:HG3	1.91	0.52
45:SA:211:ASP:HB3	45:SA:215:ARG:HH12	1.74	0.52
46:SB:178:THR:HB	46:SB:181:GLU:HG3	1.91	0.52
46:SB:215:LEU:HD21	46:SB:273:LEU:HD12	1.91	0.52
45:SC:270:SER:O	45:SC:302:MET:HG3	2.09	0.52
46:SH:217:LEU:HD23	46:SH:219:THR:H	1.75	0.52
46:SH:258:ILE:O	46:SH:258:ILE:HG13	2.10	0.52
45:SI:319:TYR:HB3	45:SI:323:VAL:HG11	1.90	0.52
46:SJ:152:ILE:O	46:SJ:156:ARG:HG2	2.09	0.52
46:SJ:293:MET:HE3	46:SJ:293:MET:O	2.10	0.52
45:TE:74:VAL:HA	45:TE:77:GLU:CD	2.34	0.52
45:TG:98:ASP:OD2	45:TG:99:ALA:N	2.42	0.52
46:TH:55:THR:HG23	46:UH:283:ALA:HA	1.92	0.52
45:TI:111:GLY:O	45:TI:115:VAL:HG13	2.09	0.52
45:TM:91:GLN:HE21	45:TM:121:ARG:CZ	2.23	0.52
45:UG:288:VAL:HG13	45:UG:373:ARG:NH2	2.23	0.52
45:UI:231:ILE:O	45:UI:235:ILE:HG12	2.09	0.52
45:UI:352:LYS:HZ1	46:UJ:179:VAL:N	2.03	0.52
46:UJ:156:ARG:HD2	46:UJ:164:MET:HE1	1.92	0.52
46:UJ:268:ILE:HG22	46:UJ:368:VAL:HA	1.92	0.52
45:UM:322:ASP:OD1	45:UM:373:ARG:NH1	2.42	0.52
46:UN:116:VAL:HA	46:UN:119:VAL:HG12	1.91	0.52
45:VA:209:ILE:HG12	45:VA:302:MET:HE1	1.91	0.52
46:VD:273:LEU:H	46:VD:292:GLN:NE2	2.08	0.52
46:VN:313:ALA:HB1	46:VN:367:PHE:HE1	1.74	0.52
46:WB:182:PRO:HD2	46:WB:388:MET:HE1	1.91	0.52
45:WG:50:ASN:O	45:WG:64:ARG:NH1	2.32	0.52
45:WG:215:ARG:NH2	45:WG:299:ALA:HB1	2.23	0.52
46:WJ:63:ALA:O	46:WJ:89:ASN:ND2	2.43	0.52
45:DC:426:ALA:HB1	45:DC:430:LYS:NZ	2.23	0.52
5:0E:44:ASP:OD1	5:0E:45:ARG:N	2.42	0.52
11:0S:253:ARG:HH12	46:AB:417:ASP:HB3	1.74	0.52
4:1D:116:LEU:HD22	4:1D:120:MET:HB3	1.90	0.52
22:1M:113:ARG:HA	22:1M:113:ARG:CZ	2.40	0.52
11:1S:96:LEU:HD11	46:MF:190:HIS:CE1	2.44	0.52
15:1X:130:ASP:O	15:1X:134:THR:HG23	2.10	0.52
27:2C:183:SER:OG	27:2C:186:HIS:HB3	2.10	0.52
5:2E:168:TYR:OH	5:2E:189:TRP:NE1	2.31	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:2K:469:LEU:O	20:2K:473:LYS:HG2	2.10	0.52
23:2O:180:MET:C	23:2O:181:MET:N	2.68	0.52
23:2O:364:LYS:HA	23:2O:367:GLN:HG3	1.90	0.52
24:2P:396:VAL:O	24:2P:400:LYS:HG2	2.09	0.52
25:2R:8:LEU:HB2	25:2R:11:PHE:CE2	2.44	0.52
13:2U:432:TRP:CE3	13:2U:441:MET:HB3	2.44	0.52
14:2V:71:PHE:O	46:MF:306:ARG:HD3	2.09	0.52
32:3D:20:THR:HA	32:3D:103:HIS:CG	2.44	0.52
13:3U:149:VAL:HG12	13:3U:166:LEU:HD22	1.92	0.52
14:3V:107:ALA:HB1	14:3V:112:ARG:HH12	1.74	0.52
27:4C:66:LEU:HB2	27:4C:71:TYR:CE1	2.44	0.52
10:4Q:26:ASP:HB2	10:4Q:63:ALA:HA	1.91	0.52
36:5A:90:GLN:NE2	36:5A:98:LEU:H	2.07	0.52
36:5A:138:ARG:NH1	46:ND:357:PRO:HD2	2.22	0.52
34:5R:367:GLN:NE2	34:5R:368:GLN:O	2.43	0.52
40:6G:249:TRP:NE1	46:VD:340:TYR:OH	2.42	0.52
10:6Q:44:SER:OG	10:6Q:163:ARG:NH1	2.42	0.52
46:AH:321:MET:HE2	46:AH:326:VAL:HG22	1.91	0.52
45:AK:205:ASP:OD2	45:AK:303:ALA:HA	2.08	0.52
45:AM:69:ASP:OD1	45:AM:70:LEU:N	2.43	0.52
46:BD:86:ARG:HG3	46:BD:88:ASP:H	1.72	0.52
45:BG:332:ILE:HD11	45:BG:351:PHE:CG	2.45	0.52
45:CA:254:GLU:HG3	46:CB:98:GLY:HA2	1.91	0.52
46:CB:187:LEU:HD11	46:CB:408:PHE:HE1	1.74	0.52
45:CI:128:ASN:CG	45:DI:285:GLN:HE22	2.18	0.52
46:DB:375:GLN:HG3	46:DB:419:VAL:HG13	1.91	0.52
46:DH:66:MET:HE2	46:DH:147:MET:HG2	1.91	0.52
46:DH:254:ALA:O	46:DH:258:ILE:HG12	2.10	0.52
46:DH:260:PHE:HB2	46:DH:263:LEU:HD13	1.91	0.52
45:DK:71:GLU:OE1	45:DK:73:THR:OG1	2.27	0.52
46:EB:200:MET:HE1	46:EB:266:PHE:HB2	1.92	0.52
46:EB:260:PHE:HB2	46:EB:263:LEU:HD13	1.92	0.52
46:ED:325:GLU:HB2	45:EE:221:ARG:NH1	2.24	0.52
46:EH:344:TRP:CD1	45:EI:401:LYS:HZ1	2.27	0.52
45:EI:345:ASP:OD1	45:EI:346:TRP:N	2.43	0.52
45:FK:137:VAL:HG23	45:FK:168:GLY:HA2	1.92	0.52
45:GA:33:ASP:HA	45:GA:85:GLN:HE21	1.74	0.52
46:GB:221:THR:HG23	46:GB:224:ASP:H	1.73	0.52
45:GE:77:GLU:HA	45:GE:80:THR:HG22	1.91	0.52
45:GI:221:ARG:NH2	46:GJ:325:GLU:OE2	2.43	0.52
46:GL:32:PRO:HA	46:GL:84:LEU:HD11	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GL:139:LEU:HD12	46:GL:170:VAL:HG12	1.91	0.52
45:GM:265:ILE:HG22	45:GM:380:ASN:HD21	1.75	0.52
46:HB:309:ARG:NH2	46:HB:426:GLN:O	2.36	0.52
45:HG:257:THR:HA	46:HJ:397:TRP:CZ2	2.44	0.52
46:HN:175:VAL:HG22	46:HN:205:GLU:HB3	1.91	0.52
45:IC:8:HIS:HB2	45:IC:67:PHE:HD2	1.74	0.52
45:IE:179:THR:HG21	46:IF:246:LEU:HD23	1.91	0.52
46:IF:66:MET:HE1	46:IF:147:MET:HG2	1.91	0.52
45:IG:280:LYS:HE2	45:IG:283:HIS:HB2	1.92	0.52
46:IH:287:PRO:HA	46:IH:329:GLN:NE2	2.23	0.52
45:IM:3:GLU:OE2	45:IM:131:GLY:N	2.42	0.52
46:JB:86:ARG:HD3	46:JB:88:ASP:HB2	1.92	0.52
46:JB:378:PHE:HA	46:JB:381:VAL:HG12	1.91	0.52
45:JG:218:ASP:OD2	45:JG:280:LYS:NZ	2.37	0.52
46:JL:404:ASP:O	46:JL:407:GLU:HG2	2.10	0.52
45:JM:119:LEU:HA	45:JM:122:ILE:HG22	1.90	0.52
46:JN:5:VAL:HG12	46:JN:62:ARG:HD3	1.91	0.52
46:KN:200:MET:HA	46:KN:200:MET:HE3	1.90	0.52
45:LA:19:ALA:O	45:LA:22:GLU:HG3	2.10	0.52
46:LF:207:LEU:HB3	46:LF:225:LEU:HD22	1.91	0.52
45:LK:399:TYR:O	45:LK:402:ARG:NH1	2.41	0.52
46:MD:67:ASP:O	46:MD:92:PHE:HA	2.08	0.52
46:MD:151:LEU:O	46:MD:155:VAL:HG22	2.09	0.52
45:MG:263:PRO:HD3	46:MJ:396:HIS:CE1	2.44	0.52
45:MK:258:ASN:HD22	45:MK:352:LYS:HD2	1.74	0.52
45:MM:133:GLN:HB3	45:MM:252:ILE:HG21	1.92	0.52
45:NA:108:TYR:O	45:NA:112:LYS:NZ	2.43	0.52
45:NA:210:TYR:CE2	46:NB:324:LYS:HB2	2.43	0.52
45:NA:241:SER:OG	45:NA:250:VAL:O	2.18	0.52
45:NC:419:SER:O	45:NC:423:GLU:HG2	2.10	0.52
45:NG:244:PHE:HB2	45:NG:356:ASN:HD21	1.75	0.52
45:NG:397:LEU:HD21	46:NH:344:TRP:HA	1.92	0.52
46:NJ:67:ASP:OD1	46:NJ:68:LEU:N	2.41	0.52
46:NL:294:PHE:CE1	46:NL:333:VAL:HG11	2.44	0.52
45:NM:227:LEU:O	45:NM:231:ILE:HD12	2.09	0.52
45:OC:2:ARG:HG3	45:OC:133:GLN:NE2	2.24	0.52
45:OK:249:ASN:ND2	46:ON:11:GLN:OE1	2.40	0.52
45:PE:227:LEU:O	45:PE:231:ILE:HD12	2.09	0.52
46:PF:44:LEU:HA	46:PF:47:ILE:HG23	1.91	0.52
46:PN:31:ASP:OD1	46:PN:35:THR:N	2.36	0.52
46:PN:69:GLU:CD	46:PN:71:GLY:H	2.18	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QC:88:HIS:HA	45:RC:280:LYS:HE2	1.91	0.52
45:QC:89:PRO:HD3	45:RC:280:LYS:HE2	1.91	0.52
45:QE:265:ILE:HD11	45:QE:435:VAL:HG21	1.90	0.52
46:QJ:86:ARG:HH12	46:RJ:282:ARG:HG2	1.74	0.52
45:QK:147:SER:HB2	45:QK:190:SER:HB3	1.90	0.52
45:QM:121:ARG:HA	45:QM:124:LYS:HZ3	1.74	0.52
46:RB:210:ILE:O	46:RB:214:THR:OG1	2.23	0.52
45:RE:211:ASP:HA	45:RE:214:ARG:HG2	1.90	0.52
45:RG:68:LEU:HD13	45:RG:93:ILE:HB	1.91	0.52
46:RH:36:TYR:CZ	46:RH:44:LEU:HD11	2.44	0.52
45:RK:248:LEU:HB2	45:RK:355:ILE:HG22	1.91	0.52
46:RL:22:GLU:HA	46:RL:81:PHE:HD2	1.74	0.52
45:SC:183:GLU:N	45:SC:184:PRO:HD2	2.24	0.52
45:SC:345:ASP:OD1	45:SC:346:TRP:N	2.42	0.52
45:SE:90:GLU:HG2	45:SE:121:ARG:NH2	2.25	0.52
46:SJ:46:ARG:NH2	45:SK:73:THR:HA	2.25	0.52
45:SK:208:ALA:O	45:SK:212:ILE:HG12	2.10	0.52
45:SM:76:ASP:OD1	45:SM:79:ARG:NH2	2.40	0.52
45:SM:102:ASN:ND2	45:SM:407:TRP:O	2.42	0.52
46:SN:167:PHE:CE2	46:SN:233:MET:HG2	2.44	0.52
46:TB:20:PHE:HD2	46:TB:21:TRP:CD1	2.28	0.52
46:TL:2:ARG:NH2	45:TM:70:LEU:O	2.43	0.52
46:UB:190:HIS:HE2	46:UB:415:MET:HG2	1.73	0.52
45:UC:362:VAL:HB	45:UC:370:LYS:HB3	1.91	0.52
45:UE:99:ALA:HA	45:UE:105:ARG:HD3	1.92	0.52
45:UK:99:ALA:HA	45:UK:105:ARG:HE	1.75	0.52
45:UK:244:PHE:HB2	45:UK:356:ASN:HD21	1.73	0.52
46:UL:86:ARG:NH1	46:VL:281:TYR:HB2	2.24	0.52
46:UN:163:ILE:O	46:UN:164:MET:HE2	2.10	0.52
45:VK:79:ARG:NH2	45:VK:92:LEU:O	2.43	0.52
45:WC:129:CYS:SG	45:WC:132:LEU:N	2.83	0.52
46:WD:3:GLU:OE2	46:WD:127:CYS:HB2	2.10	0.52
45:WG:228:ASN:HA	45:WG:231:ILE:HD12	1.92	0.52
45:WG:407:TRP:HZ2	46:WH:258:ILE:HD11	1.74	0.52
46:WJ:16:ILE:HD13	46:WJ:226:ASN:OD1	2.10	0.52
46:WL:344:TRP:HE3	46:WL:345:ILE:HG23	1.74	0.52
45:WM:407:TRP:NE1	46:WN:255:VAL:HG22	2.23	0.52
46:WN:238:CYS:SG	46:WN:318:ARG:HD2	2.49	0.52
45:CE:211:ASP:HB3	45:CE:215:ARG:CZ	2.39	0.52
45:DC:35:GLN:HA	45:DC:60:LYS:HA	1.92	0.52
4:0D:79:GLN:HA	4:0D:82:TYR:HD2	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0D:79:GLN:NE2	46:EB:39:ASP:OD2	2.42	0.52
6:0F:108:ARG:HA	6:0F:111:GLU:OE2	2.08	0.52
12:0T:191:PHE:O	12:0T:193:LYS:NZ	2.37	0.52
13:0U:35:GLY:O	13:0U:57:GLN:HA	2.10	0.52
15:0X:83:MET:CE	34:7R:47:GLU:HB2	2.39	0.52
5:1E:23:THR:O	5:1E:27:LEU:HG	2.10	0.52
18:1I:196:LEU:HD12	18:1I:200:GLU:HG3	1.91	0.52
21:1L:190:PHE:O	21:1L:194:ILE:HG13	2.10	0.52
21:1L:768:VAL:HG12	21:1L:805:LYS:NZ	2.24	0.52
21:1L:831:LYS:HD3	21:1L:832:PRO:HD2	1.92	0.52
22:1M:33:THR:HG22	22:1M:50:GLU:HB3	1.91	0.52
22:1M:174:LEU:HD21	22:1M:191:ARG:HH21	1.73	0.52
9:1N:438:ASP:N	9:1N:438:ASP:OD1	2.43	0.52
23:1O:268:ASN:HD22	45:UA:283:HIS:CD2	2.27	0.52
23:1O:269:GLN:HA	23:1O:272:ILE:HD12	1.92	0.52
24:1P:220:LYS:HG3	24:1P:221:ILE:HG23	1.91	0.52
24:1P:298:ASP:OD1	24:1P:302:LYS:NZ	2.40	0.52
12:1T:213:LEU:HA	12:1T:218:PHE:CE1	2.45	0.52
12:1T:221:ARG:HD2	12:1T:221:ARG:N	2.24	0.52
13:1U:21:LEU:HD11	13:1U:30:LEU:HD11	1.91	0.52
13:1U:576:GLY:HA3	13:1U:596:GLU:CD	2.34	0.52
26:1W:249:LYS:HZ1	34:7R:17:PHE:C	2.18	0.52
25:2R:213:SER:HB2	25:2R:217:GLU:HG2	1.92	0.52
11:2S:122:GLY:O	11:2S:127:ARG:NH2	2.43	0.52
11:2S:137:TYR:HD2	11:2S:173:ILE:HG21	1.74	0.52
11:2S:180:GLU:OE1	11:2S:185:TYR:HB2	2.10	0.52
12:2T:252:ARG:NH1	12:2T:253:PRO:O	2.43	0.52
12:3T:188:ASP:CG	12:3T:193:LYS:HE3	2.34	0.52
10:4Q:46:VAL:HG21	10:4Q:129:TRP:HH2	1.75	0.52
37:5F:126:LEU:HD13	45:OE:285:GLN:HE22	1.75	0.52
37:5G:61:LYS:H	46:OJ:276:ARG:HH22	1.56	0.52
34:5R:256:LEU:HD22	34:5R:356:THR:HG23	1.90	0.52
10:6Q:74:PRO:HD2	10:6Q:169:ASP:OD1	2.10	0.52
34:7R:389:ASN:H	46:EB:276:ARG:NH2	2.07	0.52
46:AD:398:TYR:HD2	46:AD:408:PHE:HZ	1.58	0.52
45:AE:324:VAL:HG12	45:AE:326:LYS:H	1.75	0.52
46:BN:375:GLN:HG3	46:BN:379:LYS:HZ2	1.75	0.52
46:CB:2:ARG:NH2	46:CB:240:LEU:O	2.43	0.52
46:CB:15:GLN:OE1	49:CB:501:GDP:N1	2.42	0.52
46:CN:77:ARG:HD2	46:CN:90:PHE:CE2	2.45	0.52
46:DB:138:SER:HA	46:DB:169:VAL:HB	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DE:301:MET:HE1	45:DE:307:PRO:HD3	1.91	0.52
46:DF:181:GLU:HB3	46:DF:182:PRO:HD3	1.91	0.52
46:DH:134:GLN:HA	46:DH:165:GLU:O	2.10	0.52
45:DM:328:VAL:HG11	45:DM:353:VAL:HG21	1.92	0.52
46:ED:324:LYS:NZ	45:EE:214:ARG:HB2	2.23	0.52
45:EI:276:ILE:HG13	45:EI:280:LYS:HE2	1.91	0.52
45:FG:69:ASP:OD1	45:FG:70:LEU:N	2.43	0.52
46:FH:97:ALA:HB3	46:FH:143:THR:HB	1.91	0.52
45:FI:392:ASP:OD1	45:FI:422:ARG:NE	2.42	0.52
46:FL:226:ASN:HD21	49:FL:502:GDP:HN1	1.56	0.52
45:GA:245:ASP:N	45:GA:245:ASP:OD1	2.43	0.52
46:GD:117:LEU:HA	46:GD:120:VAL:HG12	1.91	0.52
45:GG:140:SER:OG	47:GG:501:GTP:O2B	2.27	0.52
45:GI:115:VAL:O	45:GI:119:LEU:HD23	2.10	0.52
45:HG:72:PRO:HD2	46:HH:2:ARG:NH2	2.25	0.52
45:HI:210:TYR:CD1	46:HJ:324:LYS:HE3	2.44	0.52
45:HK:288:VAL:HA	45:HK:291:ILE:HG22	1.91	0.52
45:IC:268:MET:HB2	45:IC:379:SER:O	2.09	0.52
45:IC:398:MET:HE1	46:ID:345:ILE:HG13	1.91	0.52
46:IH:190:HIS:CD2	46:IH:411:ALA:HA	2.44	0.52
45:II:3:GLU:OE2	45:II:131:GLY:N	2.41	0.52
45:JK:326:LYS:HG3	45:JK:327:ASP:N	2.24	0.52
46:JL:203:ASP:OD2	46:JL:206:ALA:N	2.41	0.52
46:KB:293:MET:HE1	46:KB:315:ALA:HB2	1.91	0.52
45:KC:256:GLN:HB2	46:KF:397:TRP:CZ2	2.44	0.52
45:KE:195:LEU:HD13	45:KE:428:LEU:HD12	1.92	0.52
46:KF:9:GLY:HA2	46:KF:66:MET:O	2.09	0.52
45:KI:358:GLN:NE2	45:KI:359:PRO:O	2.42	0.52
46:LN:122:LYS:HE2	46:MN:291:GLN:NE2	2.25	0.52
45:MC:1:MET:N	45:MC:1:MET:SD	2.83	0.52
45:MC:265:ILE:HG22	45:MC:380:ASN:HD21	1.75	0.52
45:MC:419:SER:O	45:MC:423:GLU:HG2	2.09	0.52
46:MD:36:TYR:CZ	46:MD:44:LEU:HD11	2.45	0.52
46:MD:62:ARG:NH2	46:MD:127:CYS:HB3	2.24	0.52
45:ME:227:LEU:O	45:ME:231:ILE:HD12	2.09	0.52
45:MG:116:ASP:OD1	45:MG:116:ASP:N	2.43	0.52
45:MG:174:SER:HB2	45:MG:177:VAL:O	2.09	0.52
46:MH:309:ARG:NH2	46:MH:426:GLN:O	2.33	0.52
46:MJ:20:PHE:HA	46:MJ:230:SER:OG	2.10	0.52
46:ML:7:ILE:HG22	46:ML:64:ILE:HB	1.92	0.52
45:MM:118:CYS:O	45:MM:122:ILE:HG12	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ND:66:MET:HE1	46:ND:147:MET:HG2	1.90	0.52
45:NE:3:GLU:OE2	45:NE:129:CYS:HB3	2.10	0.52
45:NG:8:HIS:CD2	45:NG:17:GLY:HA3	2.44	0.52
45:OC:141:VAL:HG22	45:OC:187:SER:HA	1.92	0.52
46:OF:5:VAL:HG12	46:OF:62:ARG:HD3	1.92	0.52
45:OG:205:ASP:OD1	45:OG:303:ALA:HA	2.10	0.52
46:OH:147:MET:HE1	46:OH:150:LEU:HD13	1.92	0.52
45:PA:140:SER:OG	47:PA:501:GTP:O2B	2.28	0.52
45:PI:398:MET:N	45:PI:398:MET:HE2	2.25	0.52
46:PJ:88:ASP:OD2	46:PJ:89:ASN:N	2.43	0.52
46:PJ:167:PHE:CE2	46:PJ:233:MET:HE3	2.45	0.52
46:PN:221:THR:HG23	46:PN:224:ASP:H	1.75	0.52
46:QB:2:ARG:NH1	45:QC:96:LYS:HB3	2.24	0.52
45:QC:169:PHE:HD1	45:QC:204:LEU:HD11	1.75	0.52
46:QD:350:LYS:HD2	46:QD:351:SER:H	1.75	0.52
45:QK:76:ASP:HA	45:QK:79:ARG:HG2	1.91	0.52
45:RC:183:GLU:N	45:RC:184:PRO:HD2	2.25	0.52
46:RJ:258:ILE:O	45:RK:407:TRP:NE1	2.40	0.52
46:RN:3:GLU:HG3	46:RN:62:ARG:NH1	2.24	0.52
46:SB:24:ILE:O	46:SB:27:GLU:HG2	2.09	0.52
46:SB:31:ASP:OD2	46:SB:37:HIS:ND1	2.43	0.52
46:SF:260:PHE:HB2	46:SF:263:LEU:HD13	1.90	0.52
45:SG:137:VAL:HG23	45:SG:168:GLY:HA2	1.90	0.52
46:SH:12:CYS:O	46:SH:16:ILE:HG12	2.10	0.52
45:TG:336:LYS:NZ	45:TG:349:THR:HA	2.24	0.52
46:TN:282:ARG:NH2	46:TN:292:GLN:OE1	2.43	0.52
46:UD:107:THR:OG1	46:UD:108:GLU:OE1	2.26	0.52
46:UF:321:MET:HE3	45:UG:221:ARG:HH11	1.75	0.52
45:UG:346:TRP:CD1	46:UH:391:ARG:HG3	2.44	0.52
46:UL:317:PHE:CD1	46:UL:365:VAL:HG22	2.45	0.52
45:UM:324:VAL:HG12	45:UM:326:LYS:HG2	1.90	0.52
46:VF:99:ASN:HA	46:VF:142:GLY:H	1.75	0.52
46:VF:253:LEU:O	46:VF:257:LEU:HB2	2.09	0.52
45:VI:175:PRO:HB2	45:VI:176:GLN:OE1	2.10	0.52
45:VK:141:VAL:HG11	45:VK:172:TYR:CD1	2.44	0.52
45:VK:222:PRO:HD2	46:VL:324:LYS:CE	2.40	0.52
46:VN:311:LEU:H	46:VN:371:SER:HA	1.74	0.52
45:WK:209:ILE:HD11	45:WK:302:MET:HG2	1.92	0.52
10:0Q:54:VAL:O	10:0Q:157:HIS:ND1	2.37	0.52
12:0T:254:ASN:O	12:0T:258:VAL:HG13	2.10	0.52
7:1G:150:GLU:OE1	7:1G:153:SER:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:1H:89:THR:HA	8:1H:92:ILE:HG22	1.92	0.52
8:1H:91:GLN:O	8:1H:95:ASN:ND2	2.29	0.52
10:1Q:79:ILE:O	10:1Q:80:ILE:HD13	2.10	0.52
27:2C:100:ASN:OD1	27:2C:101:GLN:N	2.42	0.52
4:2D:84:SER:HA	46:EJ:320:ARG:HH21	1.74	0.52
5:2E:49:PHE:CD1	5:2E:52:LEU:HD21	2.44	0.52
12:2T:147:PHE:CZ	46:MJ:106:TYR:HB3	2.45	0.52
13:2U:227:PHE:C	13:2U:228:LYS:HD3	2.34	0.52
13:2U:583:ILE:HG12	13:2U:590:VAL:HG22	1.91	0.52
31:3I:220:LYS:HZ1	46:GL:336:LYS:HD3	1.75	0.52
21:3L:173:GLN:HG3	21:3L:176:ARG:NH2	2.25	0.52
11:3S:145:ILE:HD12	11:3S:188:LEU:HB3	1.92	0.52
37:5F:116:TYR:HB3	45:OE:279:GLU:OE2	2.10	0.52
34:5R:146:LYS:HG3	46:AL:78:ALA:HB3	1.92	0.52
40:6G:93:LYS:NZ	45:UK:114:ILE:HG13	2.10	0.52
34:6R:80:ARG:HH22	45:MM:38:SER:H	1.57	0.52
34:6R:489:ASP:OD1	34:6R:490:PHE:N	2.43	0.52
45:AG:91:GLN:HB3	45:AG:121:ARG:HH11	1.74	0.52
46:AH:67:ASP:OD1	46:AH:68:LEU:N	2.43	0.52
46:AH:376:GLU:O	46:AH:380:ARG:HG3	2.10	0.52
45:AI:317:MET:HE2	45:AI:319:TYR:CE1	2.45	0.52
45:AK:201:ALA:HB3	45:AK:267:PHE:HD1	1.75	0.52
46:AN:238:CYS:SG	46:AN:239:CYS:N	2.83	0.52
45:BC:1:MET:O	45:BC:3:GLU:HG2	2.09	0.52
45:BC:180:ALA:HB3	45:BC:183:GLU:HG3	1.91	0.52
45:BC:394:LYS:O	45:BC:398:MET:HE3	2.10	0.52
46:BF:238:CYS:SG	46:BF:239:CYS:N	2.83	0.52
45:BI:101:ASN:HA	45:BI:144:GLY:H	1.75	0.52
45:BK:258:ASN:HB3	45:BK:352:LYS:HD2	1.92	0.52
46:CB:63:ALA:O	46:CB:89:ASN:ND2	2.43	0.52
45:CC:11:GLN:N	45:CC:11:GLN:OE1	2.42	0.52
45:CG:419:SER:O	45:CG:423:GLU:HG2	2.10	0.52
46:CN:289:LEU:HD13	46:CN:365:VAL:HG23	1.92	0.52
46:DB:139:LEU:HD22	46:DB:170:VAL:HG12	1.91	0.52
46:DD:66:MET:CE	46:DD:147:MET:HE3	2.40	0.52
45:DE:260:VAL:HG23	46:DF:397:TRP:HZ2	1.73	0.52
45:DG:18:ASN:N	45:DG:18:ASN:HD22	2.08	0.52
46:DJ:238:CYS:SG	46:DJ:239:CYS:N	2.82	0.52
45:EA:212:ILE:HD11	45:EA:300:ASN:HA	1.91	0.52
46:EB:345:ILE:HG22	46:EB:348:ASN:HB3	1.91	0.52
46:ED:61:PRO:HG2	46:ED:85:PHE:HD2	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EH:258:ILE:HG13	45:EI:407:TRP:HE1	1.75	0.52
46:EJ:101:TRP:HB2	46:EJ:184:ASN:HB3	1.92	0.52
46:FD:302:ALA:HB3	46:FD:377:MET:HE1	1.91	0.52
45:FK:47:ASP:HB2	45:FK:49:PHE:CE1	2.44	0.52
46:FL:31:ASP:OD1	46:FL:35:THR:N	2.37	0.52
46:FN:372:THR:HA	46:FN:422:TYR:HE2	1.73	0.52
45:GA:152:LEU:O	45:GA:156:ARG:HG2	2.10	0.52
45:GG:296:PHE:HE2	45:GG:335:ILE:HG21	1.75	0.52
46:GH:139:LEU:HD13	46:GH:168:SER:HB3	1.92	0.52
46:GN:370:ASN:OD1	46:GN:422:TYR:OH	2.28	0.52
46:HH:316:LEU:HD23	46:HH:352:SER:HB2	1.92	0.52
45:HI:264:ARG:HG3	45:HI:264:ARG:HH11	1.75	0.52
45:HI:319:TYR:HB3	45:HI:323:VAL:HG11	1.92	0.52
46:IF:282:ARG:NH2	46:IF:292:GLN:OE1	2.43	0.52
46:IJ:105:HIS:CE1	46:IJ:150:LEU:HD12	2.44	0.52
46:IJ:173:PRO:HD3	46:IJ:380:ARG:NH1	2.25	0.52
45:JI:53:PHE:HE2	45:JI:63:PRO:HG3	1.75	0.52
45:KA:338:LYS:NZ	45:KA:340:THR:H	2.05	0.52
46:KD:164:MET:HE3	46:KD:196:ALA:HA	1.92	0.52
45:KE:9:VAL:HG22	45:KE:146:GLY:HA2	1.90	0.52
46:KF:173:PRO:HG2	46:KF:380:ARG:HD2	1.91	0.52
46:KL:107:THR:HG1	46:KL:108:GLU:CD	2.17	0.52
45:KM:422:ARG:HH12	45:KM:425:LEU:HD13	1.75	0.52
46:LB:158:GLU:HG3	46:LB:159:TYR:CD1	2.45	0.52
45:LE:9:VAL:HG12	45:LE:68:LEU:HB2	1.91	0.52
45:LM:390:ARG:O	45:LM:394:LYS:HG2	2.10	0.52
46:LN:68:LEU:HD21	46:LN:147:MET:HE1	1.92	0.52
45:NI:174:SER:HB2	45:NI:177:VAL:O	2.09	0.52
46:NJ:302:ALA:HB3	46:NJ:377:MET:HE1	1.91	0.52
45:NK:174:SER:HB3	45:NK:207:GLU:HG3	1.92	0.52
46:NN:306:ARG:HA	46:NN:340:TYR:CE2	2.45	0.52
46:OB:286:VAL:HG12	46:OB:329:GLN:NE2	2.25	0.52
45:OI:336:LYS:O	45:OI:339:ARG:NH2	2.43	0.52
46:OJ:207:LEU:HD13	46:OJ:225:LEU:HB3	1.92	0.52
46:OL:164:MET:HE1	46:OL:196:ALA:HA	1.91	0.52
45:OM:221:ARG:HH22	46:ON:324:LYS:CG	2.22	0.52
45:PA:79:ARG:NH2	45:PA:89:PRO:O	2.42	0.52
46:PF:262:ARG:NH2	46:PF:421:GLU:OE2	2.43	0.52
45:PG:196:GLU:HG2	45:PG:197:HIS:ND1	2.24	0.52
46:PJ:67:ASP:O	46:PJ:92:PHE:HA	2.10	0.52
46:PJ:134:GLN:HE21	46:PJ:167:PHE:HE2	1.56	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QF:7:ILE:HG23	46:QF:64:ILE:HD11	1.92	0.52
45:QG:10:GLY:O	45:QG:14:ILE:HG12	2.10	0.52
46:QH:67:ASP:OD1	46:QH:68:LEU:N	2.43	0.52
46:QH:252:LYS:HZ1	47:QI:501:GTP:PG	2.33	0.52
46:QJ:201:VAL:HG23	46:QJ:301:CYS:SG	2.50	0.52
46:QJ:252:LYS:HA	45:QK:100:ALA:HB1	1.91	0.52
45:RC:176:GLN:OE1	45:RC:304:LYS:NZ	2.43	0.52
46:RF:324:LYS:HB3	45:RG:210:TYR:CE2	2.45	0.52
45:RG:359:PRO:HB2	45:RG:370:LYS:NZ	2.24	0.52
46:RH:68:LEU:HD11	46:RH:147:MET:HE1	1.91	0.52
45:RI:259:LEU:HD21	45:RI:316:SER:HB2	1.92	0.52
45:RI:271:SER:OG	45:RI:301:MET:SD	2.68	0.52
46:RJ:83:GLN:CD	46:RJ:83:GLN:H	2.18	0.52
46:SF:318:ARG:HH11	46:SF:358:PRO:HG3	1.74	0.52
45:SG:214:ARG:HH12	45:SG:220:GLU:HA	1.74	0.52
45:SG:270:SER:O	45:SG:302:MET:HG3	2.09	0.52
45:SI:141:VAL:HG12	45:SI:171:ILE:O	2.09	0.52
45:SK:11:GLN:HE21	47:SK:501:GTP:PA	2.33	0.52
46:SN:221:THR:HG23	46:SN:224:ASP:H	1.75	0.52
46:TD:342:VAL:HG13	46:TD:345:ILE:HG22	1.92	0.52
46:TF:21:TRP:HA	46:TF:24:ILE:HG22	1.91	0.52
45:TG:387:VAL:HA	45:TG:390:ARG:HG2	1.92	0.52
46:TL:3:GLU:OE1	46:TL:49:VAL:HA	2.09	0.52
45:UC:201:ALA:HB3	45:UC:267:PHE:HD2	1.73	0.52
45:UC:244:PHE:HB2	45:UC:356:ASN:HD21	1.75	0.52
45:UE:326:LYS:HE2	46:UF:208:TYR:CD1	2.43	0.52
46:UF:324:LYS:H	45:UG:221:ARG:NH2	2.04	0.52
45:UG:208:ALA:HA	45:UG:304:LYS:HE3	1.90	0.52
46:UH:113:ILE:HD13	46:UH:150:LEU:HD22	1.92	0.52
46:UH:372:THR:HA	46:UH:422:TYR:CE2	2.45	0.52
46:UJ:207:LEU:HD13	46:UJ:225:LEU:HB3	1.92	0.52
46:UJ:314:SER:HA	46:UJ:350:LYS:HB2	1.90	0.52
45:UM:259:LEU:HD23	45:UM:268:MET:HG2	1.92	0.52
46:VB:324:LYS:HB2	46:VB:324:LYS:NZ	2.25	0.52
45:VG:265:ILE:HG22	45:VG:380:ASN:HD21	1.74	0.52
46:VL:406:MET:O	46:VL:410:GLU:HG2	2.09	0.52
45:WA:96:LYS:HA	45:WA:96:LYS:HE2	1.91	0.52
46:WD:173:PRO:HD2	46:WD:380:ARG:NH1	2.25	0.52
45:WE:331:SER:O	45:WE:335:ILE:HG12	2.10	0.52
46:WF:375:GLN:HG3	46:WF:419:VAL:HG13	1.92	0.52
45:WG:223:THR:HG23	45:WG:225:THR:H	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0A:70:HIS:HB3	1:0A:78:ILE:HG12	1.92	0.52
7:0G:31:MET:HE3	7:0G:34:ARG:NH2	2.25	0.52
8:1H:62:ILE:HD13	8:1H:65:ILE:HD12	1.92	0.52
8:1H:418:LEU:HD21	8:1H:425:THR:HG21	1.91	0.52
19:1J:348:LEU:HD11	46:IN:228:LEU:HD23	1.92	0.52
20:1K:63:GLN:NE2	20:1K:64:ARG:HG2	2.25	0.52
21:1L:514:ALA:HA	21:1L:517:ARG:NH1	2.24	0.52
21:1L:631:MET:HE2	21:1L:677:ILE:HD11	1.92	0.52
9:1N:416:LEU:HD12	9:1N:419:ILE:HD11	1.92	0.52
24:1P:223:ARG:HA	24:1P:226:HIS:HD2	1.73	0.52
24:1P:291:LYS:HA	24:1P:294:GLU:CD	2.35	0.52
25:1R:136:ILE:HG22	25:1R:151:PHE:HB3	1.92	0.52
16:2B:93:ILE:HD12	16:2B:98:LEU:HD13	1.92	0.52
4:2D:166:ARG:CD	4:2D:167:ILE:H	2.13	0.52
31:2I:83:ARG:NH2	45:GE:298:PRO:O	2.34	0.52
21:2L:870:ARG:HH21	46:CJ:359:LYS:HZ1	1.56	0.52
9:2N:83:ALA:HB1	9:2N:105:THR:O	2.10	0.52
24:2P:495:PRO:O	24:2P:499:GLU:HG3	2.09	0.52
25:2R:80:CYS:SG	45:MG:32:PRO:HD2	2.49	0.52
11:2S:184:PRO:HG3	45:WG:127:ASP:HB3	1.91	0.52
12:2T:138:ILE:HG22	12:2T:145:MET:HE2	1.91	0.52
14:2V:254:ASP:O	14:2V:257:LYS:HG3	2.09	0.52
1:3A:39:TYR:CE2	45:MM:78:VAL:HA	2.45	0.52
25:3R:382:TYR:OH	25:3R:386:GLY:O	2.26	0.52
11:3S:121:CYS:HG	11:3S:122:GLY:H	1.56	0.52
14:3V:71:PHE:HB2	46:MB:306:ARG:HH21	1.75	0.52
34:4R:525:GLU:CD	34:4R:525:GLU:H	2.17	0.52
34:7R:450:ASP:OD1	34:7R:452:THR:OG1	2.28	0.52
45:AA:283:HIS:HD1	45:MA:89:PRO:HD3	1.74	0.52
46:BD:259:PRO:HG2	46:BD:311:LEU:HD21	1.92	0.52
45:BI:60:LYS:HZ1	45:CI:282:TYR:C	2.18	0.52
46:BL:118:ASP:O	46:BL:121:ARG:HG2	2.10	0.52
45:BM:68:LEU:HD13	45:BM:93:ILE:HB	1.91	0.52
46:BN:67:ASP:OD1	46:BN:73:MET:HE3	2.10	0.52
46:CD:6:HIS:CD2	46:CD:21:TRP:HE1	2.28	0.52
46:CD:405:GLU:O	46:CD:409:THR:HG23	2.10	0.52
45:CI:9:VAL:HG21	45:CI:149:LEU:HB2	1.92	0.52
45:CI:311:LYS:O	45:CI:381:SER:OG	2.20	0.52
45:CK:213:CYS:SG	45:CK:219:ILE:HB	2.49	0.52
46:DD:208:TYR:HB3	45:DC:326:LYS:HZ3	1.75	0.52
45:DG:206:ASN:HB3	45:DG:210:TYR:CZ	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DI:345:ASP:OD2	46:DJ:390:ARG:NH2	2.43	0.52
46:DN:6:HIS:O	46:DN:63:ALA:HA	2.10	0.52
46:EB:267:MET:HG3	46:EB:301:CYS:HB2	1.92	0.52
45:EC:69:ASP:O	45:EC:94:SER:HA	2.10	0.52
45:EC:166:LYS:N	45:EC:199:ASP:OD2	2.35	0.52
45:EC:345:ASP:OD1	45:EC:346:TRP:N	2.42	0.52
45:EC:399:TYR:HE2	45:EC:418:PHE:HD2	1.57	0.52
46:EF:215:LEU:HD11	46:EF:273:LEU:HD12	1.92	0.52
46:EJ:258:ILE:HG22	46:EJ:266:PHE:HZ	1.74	0.52
46:EL:66:MET:CE	46:EL:147:MET:HE3	2.40	0.52
46:EL:238:CYS:SG	46:EL:318:ARG:HD3	2.50	0.52
46:FF:313:ALA:HB1	46:FF:367:PHE:HE1	1.75	0.52
46:GD:77:ARG:NH1	46:GD:82:GLY:O	2.43	0.52
45:GE:223:THR:HG23	45:GE:225:THR:H	1.75	0.52
46:GJ:117:LEU:HA	46:GJ:120:VAL:HG12	1.91	0.52
45:GK:401:LYS:HZ1	46:GL:344:TRP:CG	2.28	0.52
45:GM:340:THR:HG23	45:GM:341:ILE:HG13	1.91	0.52
45:HG:31:GLN:OE1	45:HG:31:GLN:N	2.42	0.52
45:HG:184:PRO:O	45:HG:188:ILE:HG12	2.10	0.52
45:HI:55:GLU:HG3	45:HI:57:GLY:H	1.75	0.52
46:HJ:257:LEU:HD11	46:HJ:314:SER:HB2	1.91	0.52
45:HM:404:PHE:HE2	46:HN:259:PRO:HA	1.74	0.52
45:IA:352:LYS:HZ1	46:ID:178:THR:HA	1.75	0.52
45:IG:324:VAL:HG12	45:IG:326:LYS:HG2	1.92	0.52
45:IK:55:GLU:HG3	45:IK:57:GLY:H	1.75	0.52
45:IM:173:PRO:O	45:IM:390:ARG:NH2	2.43	0.52
45:JC:255:PHE:O	45:JC:259:LEU:HB2	2.10	0.52
45:JE:96:LYS:HA	45:JE:96:LYS:HE2	1.91	0.52
46:JF:404:ASP:OD2	46:JF:405:GLU:N	2.42	0.52
45:JG:205:ASP:OD2	45:JG:303:ALA:HA	2.09	0.52
45:KG:25:CYS:HB2	45:KG:30:ILE:HB	1.91	0.52
46:KH:156:ARG:NH2	46:KH:160:PRO:O	2.43	0.52
45:LC:115:VAL:O	45:LC:119:LEU:HG	2.10	0.52
45:LC:401:LYS:HZ2	46:LD:344:TRP:CG	2.27	0.52
46:LF:380:ARG:O	46:LF:383:GLU:HG3	2.10	0.52
45:ME:317:MET:HG2	45:ME:377:MET:HG2	1.92	0.52
45:MG:208:ALA:O	45:MG:212:ILE:HG12	2.10	0.52
46:MH:32:PRO:HA	46:MH:84:LEU:HD11	1.92	0.52
46:MH:138:SER:HA	46:MH:169:VAL:HB	1.91	0.52
45:MM:384:ILE:O	45:MM:387:VAL:HG22	2.10	0.52
46:NB:116:VAL:HA	46:NB:119:VAL:HG12	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ND:150:LEU:HD23	46:ND:154:LYS:HZ1	1.75	0.52
46:ND:155:VAL:HA	46:ND:158:GLU:OE1	2.10	0.52
45:NE:33:ASP:HA	45:NE:85:GLN:CB	2.40	0.52
45:NE:352:LYS:NZ	46:NH:179:VAL:HG22	2.25	0.52
45:OA:147:SER:HB2	45:OA:190:SER:HB2	1.91	0.52
46:OB:24:ILE:HG23	46:OB:28:HIS:CE1	2.45	0.52
45:OE:257:THR:HG22	46:OH:397:TRP:HZ3	1.74	0.52
46:OF:325:GLU:HA	46:OF:328:GLU:HG3	1.91	0.52
45:PA:207:GLU:OE2	45:PA:304:LYS:HB2	2.10	0.52
45:PA:252:ILE:HD12	45:PA:255:PHE:CE2	2.45	0.52
45:PC:33:ASP:O	45:PC:60:LYS:NZ	2.43	0.52
46:PD:149:THR:HA	46:PD:152:ILE:HD12	1.91	0.52
46:PJ:32:PRO:O	46:PJ:83:GLN:NE2	2.32	0.52
46:PL:299:MET:HA	46:PL:299:MET:HE3	1.92	0.52
45:PM:76:ASP:OD1	46:PN:46:ARG:NH2	2.42	0.52
46:QF:105:HIS:CE1	46:QF:150:LEU:HD12	2.45	0.52
46:QF:175:VAL:HG22	46:QF:205:GLU:HB3	1.92	0.52
46:RF:7:ILE:HB	46:RF:135:ILE:HG22	1.92	0.52
46:RH:86:ARG:HH22	46:SH:282:ARG:HG3	1.75	0.52
46:RJ:11:GLN:HE21	49:RJ:501:GDP:PA	2.33	0.52
46:RJ:27:GLU:OE2	46:RJ:241:ARG:NH2	2.43	0.52
46:RJ:252:LYS:HA	45:RK:100:ALA:HB1	1.92	0.52
46:RL:238:CYS:SG	46:RL:239:CYS:N	2.83	0.52
45:RM:75:ILE:HG23	45:RM:92:LEU:HG	1.90	0.52
46:SB:12:CYS:O	46:SB:16:ILE:HG12	2.09	0.52
46:SF:2:ARG:NH2	45:SG:71:GLU:OE2	2.32	0.52
46:SF:3:GLU:CD	46:SF:49:VAL:HA	2.35	0.52
46:SF:375:GLN:HA	46:SF:378:PHE:HD2	1.74	0.52
45:SG:392:ASP:OD1	45:SG:422:ARG:NH1	2.42	0.52
45:SK:11:GLN:NE2	47:SK:501:GTP:O1A	2.36	0.52
46:TB:258:ILE:HD12	46:TB:264:HIS:HB3	1.92	0.52
46:TB:317:PHE:CD1	46:TB:365:VAL:HG22	2.44	0.52
45:TC:319:TYR:HD2	45:TC:323:VAL:HG11	1.75	0.52
45:TE:118:CYS:O	45:TE:122:ILE:HG12	2.10	0.52
46:TJ:46:ARG:HH22	45:TK:73:THR:HA	1.75	0.52
45:UA:49:PHE:HD1	45:UA:53:PHE:HB2	1.75	0.52
45:UE:151:SER:O	45:UE:154:LEU:N	2.42	0.52
46:UH:381:VAL:HG12	46:UH:385:PHE:CE2	2.44	0.52
45:UI:111:GLY:O	45:UI:115:VAL:HG13	2.10	0.52
45:UI:320:ARG:HD3	45:UI:360:PRO:HG3	1.92	0.52
46:UJ:238:CYS:SG	46:UJ:241:ARG:NH2	2.82	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UL:86:ARG:HH21	46:UL:87:PRO:HD2	1.74	0.52
46:UN:260:PHE:HB2	46:UN:263:LEU:HD13	1.92	0.52
45:VA:318:MET:HE1	45:VA:320:ARG:HD2	1.92	0.52
46:VB:332:ASN:HD22	46:VB:336:LYS:NZ	2.07	0.52
45:VE:206:ASN:ND2	45:VE:210:TYR:OH	2.43	0.52
45:VK:261:PRO:CD	45:VK:262:TYR:H	2.21	0.52
46:WF:31:ASP:OD2	46:WF:33:THR:OG1	2.27	0.52
46:WJ:325:GLU:O	46:WJ:329:GLN:OE1	2.28	0.52
5:0E:23:THR:O	5:0E:27:LEU:HG	2.10	0.52
10:0Q:82:ASN:ND2	10:0Q:126:ASP:O	2.38	0.52
13:0U:306:ASP:OD1	13:0U:307:THR:N	2.42	0.52
13:0U:499:HIS:HB3	13:0U:502:GLU:HB3	1.92	0.52
1:1A:35:TYR:HE2	1:1A:41:THR:HG23	1.75	0.52
1:1A:63:PRO:HG3	46:MF:44:LEU:HD21	1.92	0.52
16:1B:8:GLU:OE1	16:1B:11:GLN:NE2	2.42	0.52
7:1G:154:LYS:NZ	27:3C:269:TYR:OH	2.43	0.52
19:1J:290:THR:HG21	46:IL:320:ARG:HE	1.75	0.52
21:1L:145:GLN:HA	21:1L:148:ARG:HG2	1.91	0.52
21:1L:737:ASN:H	21:1L:792:LYS:NZ	2.07	0.52
21:1L:858:LEU:HD12	21:1L:861:ARG:HH21	1.75	0.52
23:1O:79:ILE:O	23:1O:82:GLU:HG3	2.09	0.52
23:1O:155:ILE:HG23	23:1O:158:LYS:HE3	1.91	0.52
24:1P:183:LYS:HA	24:1P:186:GLU:CD	2.35	0.52
24:1P:289:GLU:HA	24:1P:292:GLU:CG	2.38	0.52
11:1S:266:ASN:HD22	10:2Q:33:HIS:CD2	2.27	0.52
15:1X:18:ILE:O	15:1X:18:ILE:HG13	2.10	0.52
1:2A:16:LEU:HA	1:2A:19:ARG:HB3	1.92	0.52
16:2B:30:TYR:HA	16:2B:33:MET:HE3	1.92	0.52
16:2B:47:ASP:O	16:2B:51:LYS:HG2	2.09	0.52
27:2C:21:LEU:HD21	45:LI:365:GLY:N	2.25	0.52
20:2K:371:LEU:O	20:2K:375:VAL:HG23	2.10	0.52
21:2L:631:MET:HE2	21:2L:631:MET:HA	1.92	0.52
21:2L:667:ARG:HG3	45:CM:365:GLY:HA2	1.90	0.52
11:2S:249:VAL:HA	11:2S:252:TYR:CZ	2.45	0.52
26:2W:269:LYS:O	26:2W:272:LYS:HB3	2.10	0.52
1:3A:100:PHE:HE2	25:3R:5:PHE:HD1	1.58	0.52
5:3E:80:ASP:O	5:3E:83:GLU:HG3	2.10	0.52
30:3H:196:SER:HA	46:AH:42:LEU:HD13	1.92	0.52
31:3I:257:THR:HG23	45:FI:96:LYS:NZ	2.25	0.52
13:3U:386:ILE:HB	13:3U:400:ILE:HB	1.92	0.52
34:4R:423:ILE:HD12	34:4R:447:PHE:CD2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5E:104:MET:HG3	37:5E:105:LYS:H	1.74	0.52
37:5G:52:GLY:H	37:5G:55:GLU:CD	2.18	0.52
34:6R:420:ASP:OD1	34:6R:421:GLN:N	2.43	0.52
45:AC:51:THR:HG21	45:AC:243:ARG:HB3	1.92	0.52
45:AE:259:LEU:HD11	45:AE:316:SER:CB	2.40	0.52
46:AN:190:HIS:CE1	46:AN:414:ASN:HD22	2.28	0.52
45:BE:207:GLU:O	45:BE:210:TYR:HB2	2.10	0.52
45:BE:267:PHE:HD2	45:BE:388:PHE:HZ	1.57	0.52
45:BK:215:ARG:NH2	45:BK:300:ASN:OD1	2.43	0.52
45:BM:79:ARG:O	45:BM:84:ARG:HG2	2.10	0.52
45:CC:377:MET:HE2	45:CC:379:SER:HB2	1.92	0.52
46:CH:310:TYR:HE2	46:CH:367:PHE:HZ	1.56	0.52
45:CM:296:PHE:HE1	45:CM:377:MET:HG3	1.74	0.52
45:DA:141:VAL:HG11	45:DA:172:TYR:CD1	2.45	0.52
45:DA:206:ASN:OD1	47:DA:501:GTP:N2	2.43	0.52
46:DB:255:VAL:HG21	45:DC:100:ALA:O	2.10	0.52
46:DD:392:LYS:HG3	46:DD:395:LEU:HD12	1.92	0.52
45:DG:155:GLU:HA	45:DG:197:HIS:CE1	2.44	0.52
45:DI:301:MET:HG3	45:DI:303:ALA:H	1.75	0.52
46:DL:12:CYS:O	46:DL:16:ILE:HG12	2.10	0.52
45:DM:147:SER:HB2	45:DM:190:SER:OG	2.10	0.52
45:DM:184:PRO:O	45:DM:188:ILE:HG12	2.10	0.52
45:DM:336:LYS:HA	45:DM:336:LYS:HE2	1.92	0.52
46:DN:226:ASN:HD21	49:DN:501:GDP:HN1	1.57	0.52
45:EC:9:VAL:HG21	45:EC:149:LEU:HB2	1.91	0.52
46:ED:289:LEU:HD13	46:ED:365:VAL:HG23	1.92	0.52
45:EE:55:GLU:HG3	45:EE:57:GLY:H	1.75	0.52
46:EF:246:LEU:HD11	45:EG:224:TYR:HE2	1.73	0.52
46:EF:344:TRP:CD1	45:EG:401:LYS:HZ2	2.27	0.52
45:EK:178:SER:OG	45:EK:180:ALA:O	2.27	0.52
46:FD:7:ILE:HG13	46:FD:64:ILE:HB	1.91	0.52
46:FD:21:TRP:CD1	46:FD:21:TRP:N	2.76	0.52
46:FD:152:ILE:HD13	46:FD:164:MET:HE2	1.92	0.52
45:GA:68:LEU:HD13	45:GA:93:ILE:HB	1.91	0.52
45:GC:212:ILE:HD11	45:GC:300:ASN:HA	1.92	0.52
46:GD:316:LEU:HG	46:GD:352:SER:HB2	1.91	0.52
46:GD:330:MET:HA	46:GD:330:MET:HE2	1.92	0.52
45:GE:28:HIS:HE1	45:GE:243:ARG:HH11	1.57	0.52
46:GJ:91:VAL:HG21	46:GJ:116:VAL:HB	1.92	0.52
45:GK:118:CYS:O	45:GK:122:ILE:HG12	2.09	0.52
46:GL:52:ASN:OD1	46:GL:53:GLU:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GL:222:TYR:O	46:GL:226:ASN:ND2	2.33	0.52
45:GM:244:PHE:HB2	45:GM:356:ASN:HD21	1.73	0.52
45:HC:419:SER:O	45:HC:423:GLU:HG2	2.09	0.52
46:HD:328:GLU:O	46:HD:332:ASN:ND2	2.43	0.52
45:HG:69:ASP:OD1	45:HG:71:GLU:N	2.33	0.52
45:HK:2:ARG:HG3	45:HK:133:GLN:HE22	1.75	0.52
46:HL:174:LYS:HB2	46:HL:205:GLU:OE2	2.10	0.52
46:IB:262:ARG:NH1	46:IB:421:GLU:OE1	2.42	0.52
45:IC:68:LEU:HD21	45:IC:118:CYS:SG	2.50	0.52
45:IE:200:VAL:HG13	45:IE:268:MET:CE	2.40	0.52
45:II:408:TYR:HB3	45:II:413:MET:HE2	1.91	0.52
46:JB:32:PRO:HG3	46:JB:81:PHE:CE2	2.45	0.52
46:JD:86:ARG:NH1	46:KD:281:TYR:O	2.43	0.52
46:JD:401:GLU:HG2	46:JD:401:GLU:O	2.08	0.52
45:JI:11:GLN:NE2	46:JJ:245:GLN:O	2.43	0.52
45:JI:191:THR:HA	45:JI:194:LEU:HG	1.91	0.52
46:JJ:68:LEU:HA	46:JJ:93:GLY:H	1.75	0.52
45:JK:108:TYR:CE2	45:JK:413:MET:HE1	2.45	0.52
46:JL:66:MET:HE3	46:JL:116:VAL:HG21	1.92	0.52
45:JM:188:ILE:HG22	45:JM:421:ALA:HB1	1.90	0.52
46:JN:269:GLY:HA2	46:JN:300:MET:HE1	1.91	0.52
46:JN:296:ALA:HB1	46:JN:305:PRO:HD2	1.92	0.52
45:KA:244:PHE:HB2	45:KA:356:ASN:HD21	1.74	0.52
46:KF:267:MET:HG2	46:KF:299:MET:SD	2.50	0.52
45:KI:64:ARG:NH1	45:KI:129:CYS:SG	2.83	0.52
46:KJ:2:ARG:HB2	46:KJ:131:GLN:HG3	1.92	0.52
45:KM:265:ILE:HG22	45:KM:432:TYR:HE1	1.75	0.52
46:KN:149:THR:HA	46:KN:152:ILE:HD12	1.92	0.52
46:LH:31:ASP:OD2	46:LH:37:HIS:ND1	2.43	0.52
45:MI:183:GLU:N	45:MI:184:PRO:HD2	2.25	0.52
46:MN:390:ARG:O	46:MN:392:LYS:NZ	2.43	0.52
46:ND:44:LEU:HA	46:ND:47:ILE:HB	1.92	0.52
46:ND:105:HIS:CE1	46:ND:150:LEU:HD12	2.46	0.52
46:NF:22:GLU:HG2	46:NF:81:PHE:CD1	2.45	0.52
46:NH:103:LYS:O	46:NH:107:THR:OG1	2.22	0.52
45:NI:181:VAL:HG12	46:NJ:256:ASN:HD22	1.75	0.52
45:NK:208:ALA:O	45:NK:212:ILE:HG12	2.09	0.52
46:NL:19:LYS:HE2	46:NL:19:LYS:HA	1.92	0.52
45:NM:11:GLN:NE2	46:NN:245:GLN:O	2.42	0.52
46:NN:97:ALA:HB3	46:NN:143:THR:HB	1.92	0.52
45:OA:226:ASN:HA	45:OA:229:ARG:HD2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OB:207:LEU:HD22	46:OB:228:LEU:HD11	1.92	0.52
46:OD:11:GLN:HG3	49:OD:501:GDP:O3B	2.10	0.52
46:OD:66:MET:HA	46:OD:91:VAL:O	2.10	0.52
46:OD:97:ALA:HB2	46:OD:143:THR:HB	1.92	0.52
46:OJ:289:LEU:HD13	46:OJ:365:VAL:HG13	1.91	0.52
45:OK:169:PHE:CE2	45:OK:235:ILE:HD12	2.44	0.52
45:OK:268:MET:HG3	45:OK:380:ASN:HB2	1.91	0.52
45:PA:426:ALA:C	45:PA:430:LYS:HZ2	2.18	0.52
46:PD:245:GLN:OE1	46:PD:246:LEU:HG	2.10	0.52
46:PD:294:PHE:HE2	46:PD:333:VAL:HG11	1.75	0.52
46:PF:68:LEU:HB3	46:PF:96:GLY:HA2	1.92	0.52
45:PG:242:LEU:HD11	45:PG:252:ILE:HG12	1.92	0.52
45:PI:206:ASN:OD1	47:PI:501:GTP:N2	2.43	0.52
45:PK:104:ALA:HB2	45:PK:413:MET:HG2	1.92	0.52
46:PL:386:THR:O	46:PL:390:ARG:HG2	2.09	0.52
46:QL:133:PHE:O	46:QL:164:MET:HA	2.10	0.52
45:QM:324:VAL:HG12	45:QM:326:LYS:HG3	1.90	0.52
45:RE:271:SER:OG	45:RE:301:MET:SD	2.61	0.52
46:RF:117:LEU:HD21	46:RF:121:ARG:HH22	1.74	0.52
46:RL:267:MET:HE2	46:RL:299:MET:SD	2.49	0.52
46:RL:311:LEU:O	46:RL:345:ILE:HD11	2.10	0.52
46:RL:350:LYS:NZ	46:RL:351:SER:O	2.43	0.52
46:SB:260:PHE:HB2	46:SB:263:LEU:HD13	1.92	0.52
45:SC:229:ARG:NH2	45:SC:367:ASP:H	2.07	0.52
46:SF:324:LYS:HB2	45:SG:210:TYR:CE1	2.45	0.52
45:SG:277:SER:O	45:SG:281:ALA:N	2.43	0.52
45:SM:244:PHE:HB2	45:SM:356:ASN:HD21	1.74	0.52
46:TB:144:GLY:HA2	46:TB:147:MET:SD	2.50	0.52
45:TC:272:TYR:HD1	45:TC:376:CYS:HB3	1.75	0.52
46:TD:119:VAL:O	46:TD:122:LYS:HG3	2.10	0.52
46:TD:337:ASN:HB3	46:TD:340:TYR:HD2	1.74	0.52
45:TE:188:ILE:HG21	45:TE:422:ARG:HH22	1.74	0.52
46:TH:86:ARG:HB3	46:TH:89:ASN:OD1	2.09	0.52
45:TK:254:GLU:O	45:TK:255:PHE:HD2	1.93	0.52
46:UH:282:ARG:HE	46:UH:283:ALA:N	2.04	0.52
45:UK:332:ILE:HD11	45:UK:351:PHE:CG	2.45	0.52
45:VA:80:THR:HA	45:VA:84:ARG:HH21	1.75	0.52
45:VG:326:LYS:HZ3	46:VJ:220:PRO:HD2	1.73	0.52
45:VM:118:CYS:O	45:VM:122:ILE:HG12	2.10	0.52
45:VM:135:PHE:HB2	45:VM:166:LYS:HG2	1.91	0.52
46:VN:164:MET:SD	46:VN:197:ASP:N	2.65	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:WD:41:ASP:OD1	46:WD:42:LEU:HD12	2.10	0.52
46:WF:16:ILE:HD13	46:WF:226:ASN:OD1	2.10	0.52
46:WH:293:MET:HG2	46:WH:365:VAL:HG11	1.91	0.52
46:WJ:133:PHE:O	46:WJ:164:MET:HA	2.10	0.52
45:WK:154:LEU:HD13	45:WK:197:HIS:HB2	1.92	0.52
46:WL:381:VAL:HA	46:WL:384:GLN:HE21	1.75	0.52
45:WM:3:GLU:HB2	45:WM:64:ARG:NH2	2.25	0.52
9:0N:225:TYR:HE1	9:0N:227:ASN:HB3	1.75	0.51
9:0N:257:LYS:HZ3	9:0N:259:ILE:HD13	1.74	0.51
12:0T:215:ASN:O	12:0T:216:LYS:HG3	2.10	0.51
13:0U:241:ILE:HG23	13:0U:254:VAL:HG23	1.92	0.51
8:1H:34:HIS:O	8:1H:37:ARG:HG2	2.10	0.51
8:1H:271:ARG:NH1	8:1H:274:LEU:HB2	2.26	0.51
19:1J:133:VAL:HG13	19:1J:134:HIS:HB2	1.91	0.51
21:1L:316:LYS:NZ	21:1L:317:LEU:O	2.38	0.51
21:1L:689:TYR:HD2	21:1L:698:ARG:HH12	1.57	0.51
9:1N:103:THR:HB	9:1N:232:GLU:HG3	1.92	0.51
9:1N:219:ALA:HB2	9:1N:270:ASN:OD1	2.10	0.51
24:1P:222:LEU:HB2	45:TG:282:TYR:CE2	2.45	0.51
12:1T:241:TRP:CZ2	12:1T:247:ASN:HB3	2.45	0.51
13:1U:470:ASP:OD2	13:1U:471:GLY:N	2.43	0.51
16:2B:131:PRO:HA	16:2B:134:ARG:HE	1.75	0.51
16:2B:157:ASP:OD1	16:2B:158:GLY:N	2.43	0.51
27:2C:117:GLU:O	27:2C:118:GLN:HG3	2.09	0.51
27:2C:250:THR:N	27:2C:253:GLU:OE2	2.43	0.51
31:2I:60:PHE:HD2	46:FH:92:PHE:HE2	1.55	0.51
20:2K:269:GLU:CD	45:GK:370:LYS:HG2	2.35	0.51
22:2M:47:LYS:NZ	46:IJ:75:SER:O	2.43	0.51
23:2O:292:TYR:CE2	23:2O:296:LYS:HE2	2.45	0.51
16:3B:5:ASN:HD22	16:3B:64:GLU:HG3	1.76	0.51
5:3E:141:GLN:HA	5:3E:144:VAL:HB	1.92	0.51
31:3I:207:LYS:HA	31:3I:207:LYS:HE2	1.91	0.51
21:3L:58:LYS:O	21:3L:58:LYS:HD3	2.10	0.51
37:5G:45:PRO:C	37:5G:48:ARG:HH22	2.18	0.51
34:6R:581:THR:OG1	34:6R:584:GLU:OE1	2.23	0.51
44:8R:288:TYR:CE1	45:PC:278:ALA:HB3	2.45	0.51
46:AB:1:MET:SD	46:AB:2:ARG:N	2.82	0.51
46:AB:133:PHE:CD1	46:AB:164:MET:HE1	2.45	0.51
45:AE:208:ALA:O	45:AE:212:ILE:HG12	2.09	0.51
46:AH:283:ALA:HA	46:MH:55:THR:HG23	1.92	0.51
46:AN:222:TYR:HD2	49:AN:501:GDP:C6	2.27	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BB:20:PHE:CE1	46:BB:24:ILE:HD11	2.45	0.51
45:BG:100:ALA:HA	46:BH:252:LYS:HG2	1.92	0.51
45:BK:174:SER:HB2	45:BK:177:VAL:O	2.10	0.51
45:DA:140:SER:OG	47:DA:501:GTP:O2B	2.28	0.51
46:DJ:390:ARG:HD2	46:DJ:391:ARG:HG2	1.92	0.51
45:DK:20:CYS:HA	45:DK:232:ALA:HB1	1.90	0.51
46:EF:324:LYS:HA	46:EF:327:ASP:OD2	2.10	0.51
46:EN:294:PHE:HD2	46:EN:333:VAL:HG11	1.75	0.51
45:FA:157:LEU:HG	45:FA:161:TYR:CD2	2.45	0.51
46:FD:345:ILE:HG23	46:FD:345:ILE:O	2.10	0.51
45:FG:17:GLY:HA2	45:FG:20:CYS:SG	2.50	0.51
46:FH:221:THR:HG23	46:FH:224:ASP:H	1.75	0.51
46:FJ:5:VAL:HG12	46:FJ:62:ARG:HD3	1.92	0.51
46:FJ:273:LEU:N	46:FJ:292:GLN:HE22	2.07	0.51
46:FJ:318:ARG:HH11	46:FJ:358:PRO:HG3	1.75	0.51
45:FK:183:GLU:N	45:FK:184:PRO:HD2	2.25	0.51
45:FM:268:MET:HB2	45:FM:379:SER:O	2.09	0.51
46:FN:55:THR:OG1	46:GN:280:GLN:O	2.25	0.51
45:GK:1:MET:N	45:GK:1:MET:SD	2.82	0.51
45:GK:56:THR:HG23	45:GK:58:ALA:H	1.75	0.51
45:GK:348:PRO:HD3	46:GN:388:MET:HE1	1.91	0.51
46:HD:3:GLU:OE2	46:HD:62:ARG:HD2	2.11	0.51
45:HE:118:CYS:O	45:HE:122:ILE:HG12	2.11	0.51
46:HJ:8:GLN:HE21	46:HJ:65:LEU:HG	1.75	0.51
45:HK:18:ASN:O	45:HK:22:GLU:HG3	2.10	0.51
46:HL:49:VAL:HG21	46:HL:241:ARG:HG2	1.92	0.51
45:HM:408:TYR:HD2	45:HM:418:PHE:HZ	1.58	0.51
46:HN:3:GLU:HG3	46:HN:62:ARG:NH1	2.26	0.51
45:IE:399:TYR:O	45:IE:402:ARG:NH1	2.43	0.51
46:IH:293:MET:HE3	46:IH:367:PHE:HB2	1.91	0.51
46:JB:237:THR:HG23	46:JB:241:ARG:HE	1.74	0.51
45:JC:121:ARG:HE	45:JC:121:ARG:HA	1.75	0.51
45:JG:11:GLN:HG2	45:JG:74:VAL:HG11	1.92	0.51
46:JH:377:MET:O	46:JH:380:ARG:HG2	2.10	0.51
45:JK:210:TYR:OH	46:JL:323:THR:OG1	2.24	0.51
46:JN:50:TYR:CE2	46:JN:241:ARG:HD3	2.44	0.51
46:JN:210:ILE:HD11	46:JN:298:ASN:HA	1.92	0.51
46:JN:267:MET:HE1	46:JN:301:CYS:N	2.25	0.51
45:KI:11:GLN:HG2	45:KI:74:VAL:HG11	1.92	0.51
45:KK:88:HIS:HE2	45:LK:284:GLU:CD	2.18	0.51
45:KM:75:ILE:O	45:KM:79:ARG:HG3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KM:90:GLU:N	45:KM:90:GLU:OE2	2.43	0.51
45:KM:399:TYR:O	45:KM:402:ARG:NH1	2.43	0.51
46:KN:19:LYS:HA	46:KN:22:GLU:OE1	2.10	0.51
46:KN:294:PHE:HD1	46:KN:333:VAL:HG21	1.75	0.51
46:KN:316:LEU:HB2	46:KN:366:THR:HB	1.91	0.51
46:LB:309:ARG:H	46:LB:372:THR:HG22	1.75	0.51
45:LG:101:ASN:N	46:LH:252:LYS:HZ2	2.07	0.51
45:MA:371:VAL:HG12	45:MA:373:ARG:H	1.75	0.51
45:MG:326:LYS:HE3	46:MJ:212:PHE:HB2	1.92	0.51
46:MH:5:VAL:HG12	46:MH:62:ARG:HD3	1.92	0.51
45:MI:76:ASP:OD1	45:MI:79:ARG:NH2	2.40	0.51
46:ND:1:MET:HE3	46:ND:2:ARG:HB3	1.91	0.51
46:NF:164:MET:HA	46:NF:164:MET:HE3	1.91	0.51
45:NI:31:GLN:HG2	45:NI:37:PRO:HD3	1.92	0.51
46:NN:88:ASP:N	46:NN:88:ASP:OD2	2.42	0.51
45:OA:105:ARG:HD2	46:OB:251:ARG:NH2	2.24	0.51
46:OH:175:VAL:HG22	46:OH:205:GLU:OE2	2.10	0.51
46:OH:398:TYR:O	46:OH:403:MET:HB2	2.10	0.51
45:OI:80:THR:O	45:OI:84:ARG:NH2	2.42	0.51
45:PA:70:LEU:HD11	45:PA:99:ALA:N	2.25	0.51
45:PG:23:LEU:O	45:PG:27:GLU:HG2	2.10	0.51
45:PI:278:ALA:HA	45:PI:369:ALA:HB2	1.91	0.51
46:PJ:86:ARG:HD3	46:PJ:87:PRO:HD2	1.91	0.51
46:PJ:186:THR:HA	46:PJ:189:VAL:HG12	1.91	0.51
45:PK:60:LYS:NZ	45:PK:85:GLN:O	2.27	0.51
45:QC:183:GLU:N	45:QC:184:PRO:HD2	2.25	0.51
46:QF:328:GLU:OE1	46:QF:332:ASN:ND2	2.40	0.51
45:QG:334:THR:O	45:QG:338:LYS:HE3	2.09	0.51
46:QH:318:ARG:HB2	46:QH:364:ALA:HB3	1.91	0.51
46:QJ:249:ASP:OD1	46:QJ:252:LYS:N	2.36	0.51
46:QJ:258:ILE:HD11	45:QK:407:TRP:HZ2	1.75	0.51
46:QL:107:THR:OG1	46:QL:401:GLU:OE2	2.18	0.51
46:QL:318:ARG:HB3	46:QL:357:PRO:HA	1.92	0.51
46:QN:178:THR:HB	46:QN:181:GLU:HG3	1.91	0.51
46:RD:3:GLU:HG3	46:RD:62:ARG:NH1	2.25	0.51
46:RD:19:LYS:O	46:RD:22:GLU:HG3	2.11	0.51
46:RF:183:TYR:HA	46:RF:385:PHE:CE1	2.43	0.51
45:RK:20:CYS:SG	45:RK:21:TRP:HD1	2.33	0.51
46:RL:12:CYS:O	46:RL:16:ILE:HG12	2.10	0.51
46:RL:86:ARG:HB3	46:RL:88:ASP:OD1	2.10	0.51
46:RL:382:ALA:HB2	46:RL:415:MET:HE1	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SB:256:ASN:OD1	45:SC:181:VAL:HG22	2.11	0.51
45:SE:31:GLN:HB3	45:SE:33:ASP:OD1	2.10	0.51
45:SG:36:MET:HG2	45:SG:61:HIS:HE1	1.75	0.51
46:SL:383:GLU:HA	46:SL:386:THR:HG22	1.92	0.51
45:TA:76:ASP:OD1	45:TA:79:ARG:NH2	2.43	0.51
45:TA:242:LEU:HD11	45:TA:252:ILE:HG13	1.91	0.51
46:TB:238:CYS:HA	46:TB:241:ARG:NE	2.26	0.51
46:TB:423:GLN:NE2	46:TB:427:ASP:OD2	2.43	0.51
46:TF:16:ILE:HD12	46:TF:229:VAL:HG21	1.91	0.51
46:TJ:304:ASP:OD2	46:TJ:306:ARG:NH1	2.44	0.51
46:TL:42:LEU:HB3	46:TL:242:PHE:CE1	2.42	0.51
46:TL:114:ASP:O	46:TL:117:LEU:HG	2.10	0.51
46:TN:100:ASN:HD22	46:TN:103:LYS:HB2	1.74	0.51
46:UD:222:TYR:O	46:UD:226:ASN:ND2	2.26	0.51
45:UG:98:ASP:O	45:UG:105:ARG:NH2	2.43	0.51
45:UI:176:GLN:NE2	45:UI:207:GLU:OE2	2.43	0.51
45:VC:301:MET:HE1	45:VC:307:PRO:HG3	1.92	0.51
45:VG:175:PRO:HA	45:VG:390:ARG:NH1	2.25	0.51
45:VK:208:ALA:HB2	45:VK:304:LYS:HG3	1.92	0.51
45:VK:268:MET:HB2	45:VK:379:SER:O	2.10	0.51
45:VK:420:GLU:HA	45:VK:423:GLU:CD	2.34	0.51
46:VN:114:ASP:O	46:VN:117:LEU:HG	2.09	0.51
45:WE:179:THR:HG21	46:WF:246:LEU:HD13	1.91	0.51
46:WH:318:ARG:HB3	46:WH:357:PRO:HA	1.93	0.51
45:WI:90:GLU:OE1	45:WI:121:ARG:NH2	2.43	0.51
46:WJ:48:ASN:O	46:WJ:62:ARG:NH1	2.42	0.51
45:WM:207:GLU:N	45:WM:207:GLU:OE1	2.43	0.51
46:WN:67:ASP:HB3	46:WN:73:MET:HE1	1.92	0.51
46:WN:173:PRO:HD2	46:WN:380:ARG:NH1	2.24	0.51
45:DC:119:LEU:HA	45:DC:122:ILE:HG22	1.92	0.51
45:DC:210:TYR:HE1	45:DC:227:LEU:HD11	1.75	0.51
2:0B:142:HIS:HB3	9:1N:37:LYS:NZ	2.25	0.51
6:0F:48:HIS:HB3	46:ED:320:ARG:NH1	2.25	0.51
8:0H:421:THR:N	8:0H:424:ASP:OD2	2.43	0.51
13:0U:404:HIS:CD2	13:0U:408:VAL:HG22	2.46	0.51
13:0U:430:ARG:HD3	13:0U:441:MET:HE2	1.91	0.51
14:0V:6:ILE:HA	14:0V:9:LEU:HD23	1.92	0.51
5:1E:82:ASP:HA	5:1E:85:LEU:HD13	1.92	0.51
18:1I:94:GLY:HA3	45:JC:82:THR:HG21	1.91	0.51
19:1J:391:ILE:HG23	19:1J:394:ARG:NH2	2.25	0.51
20:1K:244:GLU:O	20:1K:247:LYS:HG2	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:1P:392:LYS:HD2	45:TA:282:TYR:CE1	2.44	0.51
10:1Q:40:GLN:NE2	10:1Q:41:ASP:OD1	2.43	0.51
25:1R:312:GLN:HB2	25:1R:313:PRO:HD3	1.92	0.51
11:1S:194:TYR:HE1	11:1S:233:ILE:HD13	1.75	0.51
15:1X:9:PHE:CD1	15:1X:37:ARG:HD2	2.46	0.51
16:2B:202:VAL:HG22	16:2B:266:LYS:HZ2	1.74	0.51
21:2L:842:ASP:N	21:2L:842:ASP:OD1	2.43	0.51
23:2O:235:MET:HG2	46:VJ:280:GLN:HG2	1.92	0.51
23:2O:371:GLU:HG3	23:2O:374:ARG:NH2	2.24	0.51
23:2O:449:GLY:O	23:2O:453:ARG:NH1	2.43	0.51
10:2Q:48:GLU:HG3	10:2Q:161:ARG:HG2	1.93	0.51
25:2R:485:VAL:HG11	25:2R:488:LYS:HE2	1.93	0.51
14:2V:106:TYR:OH	45:LE:196:GLU:OE2	2.23	0.51
16:3B:59:PHE:HD2	45:LG:32:PRO:HB2	1.74	0.51
16:3B:177:LEU:HD13	16:3B:185:PHE:HD1	1.75	0.51
27:3C:15:ILE:HA	27:3C:18:GLU:HG2	1.93	0.51
23:3O:279:VAL:HA	23:3O:282:GLU:OE2	2.09	0.51
11:3S:278:ARG:HD2	46:WN:115:SER:HB2	1.91	0.51
13:3U:256:ALA:HB3	13:3U:260:THR:HB	1.92	0.51
13:3U:574:HIS:CE1	13:3U:578:ILE:HD13	2.45	0.51
27:4C:56:LYS:HE2	27:4C:71:TYR:CD2	2.45	0.51
27:4C:239:LYS:NZ	46:JN:38:GLY:O	2.33	0.51
35:4S:124:CYS:SG	35:4S:164:LYS:HD2	2.50	0.51
15:4X:3:ARG:NH2	45:LI:247:ALA:O	2.43	0.51
37:5E:63:HIS:NE2	46:OB:280:GLN:O	2.43	0.51
37:5H:46:LEU:HG	37:5H:47:GLU:H	1.75	0.51
41:6H:247:LYS:HZ1	46:FF:227:HIS:HB3	1.75	0.51
34:7R:215:LEU:HA	34:7R:218:ILE:HG13	1.90	0.51
45:AA:241:SER:OG	45:AA:250:VAL:O	2.24	0.51
45:AA:245:ASP:N	45:AA:245:ASP:OD2	2.42	0.51
45:AE:9:VAL:HG13	45:AE:139:ASN:HB3	1.93	0.51
45:AK:20:CYS:O	45:AK:24:PHE:HD2	1.93	0.51
45:AK:98:ASP:O	45:AK:105:ARG:NH1	2.44	0.51
45:AK:343:PHE:HZ	45:AK:351:PHE:HE1	1.58	0.51
46:AN:67:ASP:OD1	46:AN:69:GLU:N	2.35	0.51
46:BH:282:ARG:HG2	46:BH:283:ALA:O	2.10	0.51
46:BJ:66:MET:HA	46:BJ:91:VAL:O	2.10	0.51
46:BJ:238:CYS:SG	46:BJ:239:CYS:N	2.84	0.51
46:BL:295:ASP:OD1	46:BL:296:ALA:N	2.43	0.51
46:BN:87:PRO:HA	46:BN:90:PHE:CD2	2.43	0.51
46:CB:8:GLN:HE21	46:CB:65:LEU:HG	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CG:326:LYS:NZ	46:CH:219:THR:HA	2.25	0.51
46:CH:8:GLN:HE21	46:CH:65:LEU:HD21	1.75	0.51
45:CI:141:VAL:HG11	45:CI:172:TYR:CD1	2.44	0.51
45:CK:141:VAL:HG22	45:CK:187:SER:HA	1.93	0.51
45:CK:212:ILE:HD13	45:CK:215:ARG:HH21	1.75	0.51
45:CK:251:ASP:HB3	45:CK:253:THR:HG22	1.92	0.51
46:CN:139:LEU:HD22	46:CN:170:VAL:HG12	1.91	0.51
46:DB:64:ILE:HG22	46:DB:66:MET:SD	2.50	0.51
46:DB:178:THR:HB	46:DB:181:GLU:HG3	1.92	0.51
45:DG:140:SER:OG	47:DG:501:GTP:O2B	2.28	0.51
45:DK:231:ILE:O	45:DK:235:ILE:HG12	2.10	0.51
45:EG:93:ILE:HG22	45:EG:114:ILE:HD11	1.91	0.51
45:EI:68:LEU:HD13	45:EI:93:ILE:HB	1.92	0.51
45:EI:348:PRO:HD2	46:EJ:388:MET:HE1	1.92	0.51
46:EL:296:ALA:HB2	46:EL:306:ARG:NH1	2.25	0.51
46:EL:315:ALA:HB3	46:EL:330:MET:HE1	1.92	0.51
45:FC:226:ASN:O	45:FC:230:LEU:HG	2.10	0.51
46:FJ:66:MET:HE2	46:FJ:116:VAL:HG21	1.92	0.51
46:GH:1:MET:HE1	46:GH:128:ASP:HB3	1.90	0.51
46:GJ:132:GLY:HA3	46:GJ:163:ILE:HG13	1.92	0.51
45:GK:66:VAL:HG11	45:GK:122:ILE:HD11	1.91	0.51
46:HD:306:ARG:HB2	46:HD:306:ARG:NH1	2.25	0.51
45:HE:17:GLY:HA2	45:HE:20:CYS:SG	2.51	0.51
45:HE:258:ASN:CB	45:HE:352:LYS:HD2	2.39	0.51
45:HE:352:LYS:NZ	46:HH:178:THR:HA	2.26	0.51
46:HF:293:MET:HE1	46:HF:315:ALA:HB2	1.91	0.51
45:HK:148:GLY:O	45:HK:151:SER:OG	2.27	0.51
45:HM:244:PHE:HB2	45:HM:356:ASN:HD21	1.75	0.51
46:IB:198:GLU:HG2	46:IB:266:PHE:CE2	2.45	0.51
45:IG:10:GLY:O	45:IG:14:ILE:HG12	2.09	0.51
46:IH:396:HIS:CD2	46:IH:397:TRP:CD1	2.98	0.51
45:II:69:ASP:OD1	45:II:70:LEU:N	2.43	0.51
46:IJ:36:TYR:CG	46:IJ:44:LEU:HD21	2.45	0.51
46:JB:376:GLU:OE1	46:JB:380:ARG:NH1	2.34	0.51
46:JH:232:ALA:O	46:JH:236:VAL:HG23	2.10	0.51
46:JJ:186:THR:HA	46:JJ:189:VAL:HG12	1.91	0.51
46:JL:20:PHE:HA	46:JL:230:SER:OG	2.10	0.51
46:JL:211:CYS:HB3	46:JL:217:LEU:HD21	1.92	0.51
46:JN:3:GLU:HG3	46:JN:62:ARG:NH1	2.24	0.51
45:KA:175:PRO:HB3	45:KA:390:ARG:NH1	2.25	0.51
45:KG:286:LEU:HD13	45:KG:371:VAL:HG13	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KK:141:VAL:HG21	45:KK:172:TYR:CE1	2.45	0.51
46:KN:73:MET:HA	46:KN:76:VAL:HG12	1.90	0.51
45:LA:257:THR:HG21	46:LD:98:GLY:O	2.10	0.51
46:LH:207:LEU:HB3	46:LH:225:LEU:HD22	1.90	0.51
45:LI:68:LEU:HD23	45:LI:93:ILE:HB	1.92	0.51
45:LI:113:GLU:OE1	45:LI:113:GLU:N	2.42	0.51
45:LK:326:LYS:NZ	46:LN:208:TYR:O	2.43	0.51
45:LM:155:GLU:HG3	45:LM:197:HIS:NE2	2.25	0.51
45:MA:317:MET:HG2	45:MA:377:MET:HG2	1.92	0.51
45:MA:362:VAL:HB	45:MA:370:LYS:HB3	1.92	0.51
45:MK:195:LEU:HD11	45:MK:428:LEU:HD22	1.92	0.51
46:ML:112:LEU:HD22	46:ML:147:MET:HE1	1.91	0.51
45:NA:325:PRO:HB2	46:ND:208:TYR:OH	2.09	0.51
46:NJ:111:GLU:OE1	46:NJ:111:GLU:N	2.43	0.51
45:NK:118:CYS:O	45:NK:122:ILE:HG12	2.10	0.51
45:NM:387:VAL:HA	45:NM:390:ARG:HG2	1.93	0.51
46:NN:8:GLN:HE21	46:NN:14:ASN:HA	1.74	0.51
46:OD:107:THR:OG1	46:OD:108:GLU:OE1	2.22	0.51
46:OL:45:GLU:OE1	46:OL:46:ARG:HG3	2.10	0.51
46:ON:329:GLN:HA	46:ON:332:ASN:HD21	1.75	0.51
45:PA:210:TYR:CE1	45:PA:227:LEU:HD11	2.45	0.51
45:PE:2:ARG:HH21	45:PE:242:LEU:HD23	1.75	0.51
45:PE:4:VAL:HG22	45:PE:133:GLN:HB3	1.93	0.51
46:PF:54:ALA:HA	46:QD:283:ALA:HB2	1.93	0.51
45:PG:208:ALA:O	45:PG:212:ILE:HG12	2.09	0.51
45:PK:328:VAL:O	45:PK:332:ILE:HG12	2.09	0.51
46:QB:418:LEU:HD12	46:QB:421:GLU:OE1	2.10	0.51
45:QC:206:ASN:OD1	47:QC:501:GTP:N2	2.43	0.51
45:QG:68:LEU:HD21	45:QG:118:CYS:SG	2.50	0.51
45:QG:109:THR:HG22	45:QG:110:ILE:HG23	1.93	0.51
46:QH:7:ILE:HG23	46:QH:64:ILE:HD11	1.92	0.51
45:QM:244:PHE:HB2	45:QM:356:ASN:HD21	1.76	0.51
45:QM:293:ASN:O	45:QM:297:GLU:HG2	2.10	0.51
46:RB:334:GLN:HA	46:RB:341:PHE:CE2	2.45	0.51
45:RC:208:ALA:O	45:RC:212:ILE:HG12	2.09	0.51
45:RE:69:ASP:OD1	45:RE:70:LEU:N	2.43	0.51
45:RE:71:GLU:HB3	45:RE:98:ASP:HB2	1.91	0.51
45:RK:141:VAL:HG11	45:RK:172:TYR:HA	1.92	0.51
46:SB:19:LYS:O	46:SB:22:GLU:HG3	2.11	0.51
46:SB:40:SER:H	46:SB:43:GLN:NE2	2.08	0.51
46:SB:287:PRO:HA	46:SB:290:THR:HG22	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SC:69:ASP:OD1	45:SC:70:LEU:N	2.41	0.51
46:SD:135:ILE:HG13	46:SD:152:ILE:HD11	1.92	0.51
45:SE:282:TYR:OH	45:SE:370:LYS:O	2.20	0.51
45:SG:317:MET:HE1	45:SG:319:TYR:CZ	2.45	0.51
46:SJ:67:ASP:OD2	46:SJ:72:THR:OG1	2.28	0.51
46:SN:273:LEU:N	46:SN:292:GLN:HE22	2.06	0.51
46:SN:309:ARG:NH2	46:SN:426:GLN:O	2.37	0.51
45:TA:53:PHE:HB3	45:TA:61:HIS:HB3	1.90	0.51
45:TA:340:THR:HG23	45:TA:341:ILE:HG13	1.91	0.51
45:TC:9:VAL:HG22	45:TC:146:GLY:HA2	1.91	0.51
46:TH:165:GLU:HG2	46:TH:198:GLU:OE1	2.10	0.51
46:TJ:6:HIS:O	46:TJ:63:ALA:HA	2.10	0.51
45:TK:118:CYS:O	45:TK:122:ILE:HG12	2.10	0.51
45:TM:141:VAL:HG11	45:TM:172:TYR:HA	1.93	0.51
46:UB:221:THR:HG23	46:UB:224:ASP:H	1.75	0.51
46:UB:282:ARG:NH2	46:UB:292:GLN:OE1	2.25	0.51
46:UD:12:CYS:O	46:UD:16:ILE:HG12	2.11	0.51
46:UD:139:LEU:HD13	46:UD:168:SER:HB3	1.92	0.51
46:UF:238:CYS:SG	46:UF:318:ARG:HD2	2.50	0.51
45:UG:188:ILE:HD11	45:UG:391:LEU:HB3	1.93	0.51
45:UG:188:ILE:HG22	45:UG:421:ALA:HB1	1.92	0.51
45:UK:184:PRO:O	45:UK:188:ILE:HG12	2.11	0.51
45:UK:285:GLN:HE22	45:UK:287:SER:CB	2.23	0.51
46:UN:58:ARG:HH22	46:UN:84:LEU:HD13	1.74	0.51
46:VB:344:TRP:CE3	46:VB:345:ILE:HG23	2.45	0.51
45:VI:121:ARG:HE	45:VI:124:LYS:HE3	1.75	0.51
45:WI:254:GLU:HG2	46:WL:98:GLY:HA2	1.92	0.51
46:WJ:350:LYS:NZ	46:WJ:352:SER:OG	2.42	0.51
45:WK:108:TYR:HE2	45:WK:413:MET:HE3	1.75	0.51
46:WL:344:TRP:CE3	46:WL:345:ILE:HG23	2.46	0.51
45:CE:88:HIS:HB3	45:CE:91:GLN:CD	2.36	0.51
10:0Q:34:ILE:HG23	10:0Q:49:ILE:HG22	1.93	0.51
13:0U:512:ARG:C	13:0U:513:LYS:HD3	2.34	0.51
14:0V:122:LYS:HE3	14:0V:123:PRO:HD2	1.91	0.51
15:0X:86:ASP:HB3	15:0X:90:ARG:NH2	2.24	0.51
8:1H:383:LYS:HA	8:1H:386:GLU:OE1	2.09	0.51
20:1K:15:ASN:ND2	45:NC:359:PRO:HD3	2.25	0.51
12:1T:4:ASP:O	12:1T:7:PHE:HB2	2.09	0.51
12:1T:56:MET:HE1	12:1T:70:PHE:HB3	1.91	0.51
12:1T:60:LYS:HD3	12:1T:146:MET:HE3	1.91	0.51
21:2L:739:LEU:HD13	21:2L:789:GLN:HA	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:2O:434:ASN:OD1	23:2O:435:GLU:N	2.43	0.51
24:2P:460:GLU:OE2	46:TJ:362:LYS:HE2	2.10	0.51
25:2R:237:GLU:O	25:2R:242:GLY:N	2.43	0.51
25:2R:471:ASN:HD21	25:2R:473:GLN:HB2	1.76	0.51
12:2T:132:PRO:HD3	45:MG:123:ARG:HH12	1.74	0.51
13:2U:381:TRP:CD1	13:2U:387:ARG:HH11	2.28	0.51
14:2V:102:LYS:HD2	14:2V:103:PRO:HD2	1.92	0.51
23:3O:274:VAL:HA	23:3O:277:LYS:HE2	1.92	0.51
25:3R:463:PHE:HD2	25:3R:464:LEU:HG	1.75	0.51
13:3U:458:LYS:NZ	13:3U:460:ASN:HB2	2.24	0.51
34:4R:497:GLN:HB3	34:4R:502:ARG:HG2	1.92	0.51
10:5Q:92:GLN:HG2	10:5Q:152:LEU:HB2	1.91	0.51
45:AE:119:LEU:HD21	45:AE:156:ARG:HB3	1.92	0.51
46:AF:45:GLU:C	46:AF:46:ARG:HD2	2.35	0.51
46:AL:4:ILE:HG13	46:AL:132:GLY:O	2.10	0.51
46:BB:299:MET:N	46:BB:299:MET:HE2	2.26	0.51
46:BD:323:THR:HG22	46:BD:353:ILE:HD13	1.92	0.51
45:BE:210:TYR:CE1	46:BF:324:LYS:HG2	2.45	0.51
46:BJ:113:ILE:HG21	46:BJ:150:LEU:HD22	1.91	0.51
46:CB:39:ASP:OD1	46:CB:43:GLN:NE2	2.43	0.51
45:CG:136:LEU:HD13	45:CG:167:LEU:HB2	1.92	0.51
46:CL:288:GLU:HA	46:CL:291:GLN:NE2	2.26	0.51
46:DD:12:CYS:SG	46:DD:13:GLY:N	2.83	0.51
46:DD:290:THR:HG21	46:DD:329:GLN:CD	2.35	0.51
46:DD:391:ARG:HG3	45:DC:346:TRP:CD1	2.46	0.51
45:DK:202:VAL:HA	45:DK:268:MET:O	2.10	0.51
46:DL:375:GLN:NE2	46:DL:423:GLN:HB3	2.24	0.51
46:EF:247:ASN:OD1	45:EG:11:GLN:NE2	2.43	0.51
45:FE:51:THR:HG22	45:FE:52:PHE:CD1	2.44	0.51
46:FF:21:TRP:HA	46:FF:24:ILE:HG22	1.92	0.51
45:FG:394:LYS:NZ	46:FH:346:PRO:HG2	2.25	0.51
45:FK:203:MET:O	45:FK:302:MET:HE1	2.09	0.51
46:FL:342:VAL:HG13	46:FL:345:ILE:HG22	1.93	0.51
45:FM:340:THR:HG23	45:FM:341:ILE:HG13	1.91	0.51
45:GG:205:ASP:OD2	45:GG:303:ALA:HA	2.09	0.51
46:GL:289:LEU:HD13	46:GL:365:VAL:HG13	1.92	0.51
45:HA:71:GLU:OE1	45:HA:73:THR:OG1	2.16	0.51
46:HJ:317:PHE:CD2	46:HJ:321:MET:HE1	2.45	0.51
45:HK:221:ARG:NH1	46:HL:325:GLU:H	2.07	0.51
45:HM:31:GLN:OE1	45:HM:35:GLN:NE2	2.42	0.51
45:IA:420:GLU:HA	45:IA:423:GLU:CD	2.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:IB:285:THR:HB	46:IB:287:PRO:HD2	1.92	0.51
45:IC:76:ASP:OD2	46:ID:46:ARG:NH2	2.36	0.51
45:IE:147:SER:HB2	45:IE:190:SER:HB3	1.91	0.51
45:IG:108:TYR:O	45:IG:112:LYS:NZ	2.38	0.51
46:IJ:97:ALA:HB3	46:IJ:143:THR:HB	1.92	0.51
46:IJ:105:HIS:CD2	46:IJ:150:LEU:HB2	2.46	0.51
46:IJ:313:ALA:HB1	46:IJ:367:PHE:HE1	1.75	0.51
45:IM:108:TYR:C	45:IM:112:LYS:HZ1	2.19	0.51
45:IM:141:VAL:HG11	45:IM:172:TYR:CD1	2.44	0.51
45:IM:322:ASP:OD1	45:IM:373:ARG:NH1	2.42	0.51
46:IN:285:THR:HB	46:IN:287:PRO:HD2	1.91	0.51
45:JA:8:HIS:HB2	45:JA:67:PHE:HD1	1.76	0.51
45:JA:338:LYS:HZ2	45:JA:339:ARG:N	2.07	0.51
46:JB:267:MET:HB2	46:JB:299:MET:CE	2.40	0.51
45:JC:294:SER:HA	45:JC:297:GLU:HG2	1.93	0.51
46:JD:139:LEU:HD12	46:JD:170:VAL:HG12	1.92	0.51
45:JK:288:VAL:HG11	45:JK:327:ASP:HB3	1.93	0.51
46:JL:190:HIS:CE1	46:JL:414:ASN:HD22	2.29	0.51
45:JM:8:HIS:HB2	45:JM:67:PHE:HD1	1.76	0.51
45:JM:119:LEU:O	45:JM:123:ARG:HG2	2.09	0.51
45:JM:406:HIS:CE1	46:JN:261:PRO:HD3	2.44	0.51
46:JN:183:TYR:OH	46:JN:388:MET:O	2.28	0.51
45:KA:79:ARG:O	45:KA:84:ARG:HG2	2.10	0.51
45:KC:121:ARG:CZ	45:KC:124:LYS:HE2	2.39	0.51
45:KE:175:PRO:C	45:KE:390:ARG:HH22	2.19	0.51
45:KK:352:LYS:HD2	46:KN:177:ASP:O	2.10	0.51
45:LG:88:HIS:CE1	45:LG:90:GLU:HG2	2.46	0.51
45:LG:268:MET:HB2	45:LG:379:SER:O	2.09	0.51
46:LH:157:GLU:N	46:LH:157:GLU:OE2	2.43	0.51
46:LH:285:THR:HB	46:LH:287:PRO:HD2	1.92	0.51
46:LJ:65:LEU:HB3	46:LJ:73:MET:HE2	1.92	0.51
45:LK:181:VAL:HG12	46:LL:347:ASN:O	2.11	0.51
45:MA:319:TYR:HB3	45:MA:323:VAL:HG11	1.92	0.51
46:MJ:31:ASP:OD2	46:MJ:35:THR:N	2.33	0.51
45:NA:76:ASP:HA	45:NA:79:ARG:HH11	1.75	0.51
45:NA:176:GLN:NE2	45:NA:207:GLU:OE2	2.43	0.51
45:NC:138:PHE:HD2	45:NC:169:PHE:HB2	1.76	0.51
45:NC:208:ALA:O	45:NC:212:ILE:HG12	2.10	0.51
45:NE:88:HIS:O	45:NE:91:GLN:HG2	2.10	0.51
46:NJ:105:HIS:CE1	46:NJ:150:LEU:HD12	2.45	0.51
46:NN:218:THR:HG22	46:NN:219:THR:HG23	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OB:116:VAL:O	46:OB:120:VAL:HG23	2.10	0.51
45:OC:275:ILE:O	45:OC:275:ILE:HG13	2.10	0.51
46:OL:324:LYS:O	46:OL:327:ASP:N	2.43	0.51
46:ON:207:LEU:HB3	46:ON:225:LEU:HD22	1.91	0.51
45:PE:88:HIS:O	45:PE:91:GLN:HG2	2.10	0.51
45:PE:208:ALA:HA	45:PE:304:LYS:NZ	2.25	0.51
46:PL:68:LEU:HD21	46:PL:147:MET:HE3	1.93	0.51
46:PN:178:THR:HB	46:PN:181:GLU:OE2	2.11	0.51
45:QA:108:TYR:HA	45:QA:112:LYS:HE3	1.92	0.51
46:QB:73:MET:HA	46:QB:76:VAL:HG12	1.92	0.51
46:QD:183:TYR:CZ	46:QD:388:MET:HE2	2.45	0.51
45:QE:288:VAL:HG21	45:QE:327:ASP:HB3	1.93	0.51
46:QF:286:VAL:HG12	46:QF:329:GLN:OE1	2.10	0.51
45:QK:252:ILE:HA	45:QK:255:PHE:CE2	2.46	0.51
46:RB:271:ALA:HB3	46:RB:365:VAL:HB	1.92	0.51
46:RL:68:LEU:HB3	46:RL:96:GLY:HA2	1.93	0.51
46:SB:238:CYS:HA	46:SB:241:ARG:HH11	1.75	0.51
46:SB:372:THR:HG21	46:SB:426:GLN:HB2	1.92	0.51
45:SE:326:LYS:HE2	46:SF:212:PHE:CZ	2.46	0.51
46:SF:322:SER:HB3	45:SG:221:ARG:HB2	1.92	0.51
45:SG:176:GLN:OE1	45:SG:176:GLN:N	2.43	0.51
45:SI:115:VAL:HG21	45:SI:152:LEU:HD22	1.92	0.51
46:SL:316:LEU:HD13	46:SL:352:SER:HB3	1.92	0.51
46:TJ:119:VAL:O	46:TJ:122:LYS:HG3	2.11	0.51
46:TL:54:ALA:HB3	46:TL:58:ARG:HG2	1.93	0.51
45:UE:252:ILE:HA	45:UE:255:PHE:CE1	2.46	0.51
46:UF:256:ASN:HD22	45:UG:181:VAL:HG22	1.75	0.51
45:UI:287:SER:O	45:UI:291:ILE:HG12	2.10	0.51
46:UJ:2:ARG:HG3	46:UJ:2:ARG:HH11	1.75	0.51
45:UK:71:GLU:OE2	45:UK:73:THR:HG23	2.10	0.51
45:UM:215:ARG:NH2	45:UM:299:ALA:O	2.40	0.51
46:VB:156:ARG:HD3	46:VB:164:MET:HE2	1.92	0.51
45:VE:209:ILE:HA	45:VE:212:ILE:HG22	1.92	0.51
45:VG:205:ASP:CG	45:VG:304:LYS:H	2.17	0.51
45:VG:319:TYR:HB3	45:VG:323:VAL:HG11	1.93	0.51
45:VG:320:ARG:HH12	45:VG:360:PRO:CA	2.17	0.51
45:VI:412:GLY:C	45:VI:413:MET:HE2	2.34	0.51
46:VJ:282:ARG:NH2	46:VJ:288:GLU:OE1	2.43	0.51
46:VL:77:ARG:HH11	46:VL:90:PHE:HZ	1.58	0.51
46:VL:313:ALA:HB1	46:VL:367:PHE:HE1	1.75	0.51
46:WD:6:HIS:O	46:WD:63:ALA:HA	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:WD:152:ILE:HG12	46:WD:164:MET:HE2	1.92	0.51
46:WF:6:HIS:HD2	46:WF:21:TRP:HE1	1.57	0.51
46:WH:233:MET:HA	46:WH:233:MET:HE3	1.92	0.51
46:WH:282:ARG:NE	46:WH:288:GLU:OE1	2.37	0.51
2:0B:144:GLU:HG2	9:1N:310:ASN:HB3	1.93	0.51
2:0B:236:ILE:HD11	7:0G:29:MET:HA	1.92	0.51
13:0U:255:GLY:HA3	13:0U:281:VAL:HG11	1.93	0.51
16:1B:93:ILE:HG21	32:3D:17:ILE:HG23	1.92	0.51
7:1G:168:PHE:CE2	46:KD:70:PRO:HB2	2.45	0.51
7:1G:179:ILE:HG13	7:1G:180:PRO:CD	2.39	0.51
18:1I:195:PHE:CE1	15:4X:137:GLN:HB3	2.46	0.51
19:1J:105:GLU:HA	19:1J:108:GLU:HG2	1.92	0.51
20:1K:68:LEU:HD13	20:1K:71:ARG:HD3	1.92	0.51
22:1M:273:ASP:CG	22:1M:275:PRO:HD2	2.36	0.51
9:1N:258:THR:OG1	9:1N:260:GLU:OE1	2.23	0.51
23:1O:185:ARG:O	23:1O:189:ILE:HG12	2.10	0.51
10:1Q:14:LEU:HB3	10:1Q:165:ILE:HD13	1.91	0.51
25:1R:347:LYS:HB3	45:CC:39:ASP:OD1	2.10	0.51
12:1T:45:PHE:HZ	12:1T:171:PHE:CG	2.28	0.51
12:1T:229:THR:HA	12:1T:232:HIS:CD2	2.46	0.51
13:1U:198:CYS:SG	13:1U:199:VAL:N	2.83	0.51
1:2A:55:PRO:HG2	45:MI:79:ARG:HD2	1.93	0.51
4:2D:220:ILE:HB	4:2D:221:PRO:CD	2.41	0.51
21:2L:276:GLN:HG2	21:2L:348:ILE:HG13	1.93	0.51
23:2O:371:GLU:HG3	23:2O:374:ARG:HH21	1.76	0.51
12:2T:52:ILE:HG22	12:2T:191:PHE:HZ	1.75	0.51
12:2T:89:ILE:HG13	14:2V:183:GLN:OE1	2.11	0.51
12:2T:213:LEU:HA	12:2T:218:PHE:CE2	2.46	0.51
13:2U:84:ILE:HG12	13:2U:105:ILE:HD13	1.91	0.51
16:3B:240:ASP:OD1	16:3B:247:ILE:HG22	2.11	0.51
27:3C:256:ALA:HB1	27:3C:260:LYS:HZ1	1.75	0.51
25:3R:156:LYS:HE3	25:3R:166:TYR:CD2	2.44	0.51
27:4C:4:TYR:HB2	46:LN:359:LYS:HE2	1.92	0.51
33:4F:57:VAL:HA	33:4F:60:VAL:HG12	1.92	0.51
10:4Q:47:LEU:HD12	10:4Q:48:GLU:H	1.76	0.51
35:4S:63:ASN:OD1	35:4S:65:PHE:N	2.41	0.51
35:4S:169:VAL:HA	35:4S:175:ILE:HD11	1.91	0.51
36:5A:127:GLU:OE2	36:5A:131:ARG:HD2	2.11	0.51
37:5F:165:PRO:HD2	37:5F:166:ARG:HH11	1.75	0.51
34:5R:431:ILE:HG21	34:5R:495:ILE:HD12	1.93	0.51
42:8L:60:UNK:O	46:SL:276:ARG:NH2	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AC:256:GLN:CD	45:AC:256:GLN:H	2.19	0.51
45:AG:184:PRO:O	45:AG:188:ILE:HG12	2.10	0.51
45:AI:68:LEU:HD21	45:AI:118:CYS:SG	2.50	0.51
46:AL:226:ASN:HD21	49:AL:501:GDP:HN1	1.58	0.51
46:BB:164:MET:HB2	46:BB:197:ASP:H	1.74	0.51
45:BK:230:LEU:O	45:BK:234:VAL:HG23	2.11	0.51
46:CB:9:GLY:HA2	46:CB:66:MET:O	2.11	0.51
46:CB:190:HIS:CE1	46:CB:414:ASN:HD22	2.27	0.51
46:CB:209:ASP:O	46:CB:213:ARG:HD3	2.10	0.51
46:CH:208:TYR:CE1	46:CH:225:LEU:HD11	2.46	0.51
46:CJ:67:ASP:O	46:CJ:92:PHE:HA	2.08	0.51
45:CM:88:HIS:CG	45:DM:280:LYS:HE2	2.46	0.51
45:DG:408:TYR:HB3	45:DG:413:MET:HE2	1.91	0.51
46:DJ:218:THR:HG23	46:DJ:219:THR:HG23	1.91	0.51
46:EH:420:SER:O	46:EH:424:GLN:HG2	2.09	0.51
45:EI:52:PHE:HZ	45:EI:239:THR:HG21	1.75	0.51
46:EN:208:TYR:CZ	46:EN:225:LEU:HD11	2.45	0.51
46:EN:330:MET:SD	46:EN:351:SER:OG	2.68	0.51
45:FM:272:TYR:CD1	45:FM:376:CYS:HB2	2.44	0.51
45:GE:74:VAL:HA	45:GE:77:GLU:HG2	1.92	0.51
45:GE:210:TYR:HE1	45:GE:227:LEU:HD11	1.75	0.51
46:GF:139:LEU:HD13	46:GF:168:SER:HB3	1.91	0.51
46:GJ:86:ARG:NH1	46:HJ:281:TYR:HE2	2.08	0.51
45:GM:167:LEU:HG	45:GM:200:VAL:HB	1.93	0.51
46:HJ:190:HIS:CD2	46:HJ:411:ALA:HA	2.45	0.51
45:IE:3:GLU:OE2	45:IE:131:GLY:N	2.42	0.51
45:IG:75:ILE:HG22	45:IG:79:ARG:HE	1.73	0.51
46:IL:10:GLY:O	46:IL:14:ASN:ND2	2.43	0.51
46:IL:139:LEU:HD13	46:IL:168:SER:HB3	1.92	0.51
46:JN:256:ASN:HD21	46:JN:350:LYS:HE3	1.75	0.51
45:KA:338:LYS:HZ3	45:KA:339:ARG:HG3	1.76	0.51
45:KC:26:LEU:HD13	45:KC:363:VAL:HG23	1.92	0.51
45:KE:64:ARG:NH1	45:KE:129:CYS:SG	2.83	0.51
45:KE:71:GLU:OE2	46:KF:2:ARG:NH2	2.44	0.51
45:KG:136:LEU:HD23	45:KG:167:LEU:HB2	1.93	0.51
45:KM:210:TYR:HB3	46:KN:324:LYS:HE3	1.92	0.51
46:LB:172:SER:OG	46:LB:205:GLU:OE1	2.27	0.51
45:LI:317:MET:HE2	45:LI:319:TYR:HE1	1.75	0.51
46:MD:63:ALA:O	46:MD:89:ASN:ND2	2.40	0.51
46:MF:11:GLN:NE2	49:MF:501:GDP:O1A	2.29	0.51
46:MF:11:GLN:HB3	46:MF:72:THR:HG21	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MG:282:TYR:HE1	45:MG:371:VAL:HG12	1.75	0.51
46:MJ:91:VAL:HG21	46:MJ:116:VAL:HB	1.93	0.51
45:MK:105:ARG:NH1	46:ML:251:ARG:HE	2.08	0.51
45:NI:259:LEU:HD21	45:NI:316:SER:HB3	1.93	0.51
45:NI:322:ASP:OD1	45:NI:373:ARG:NH1	2.42	0.51
46:OF:178:THR:HB	46:OF:181:GLU:CD	2.36	0.51
46:OF:200:MET:HE2	46:OF:268:ILE:HG23	1.93	0.51
46:OH:253:LEU:O	46:OH:257:LEU:HB2	2.09	0.51
45:OI:345:ASP:OD2	45:OI:346:TRP:N	2.43	0.51
46:OJ:18:ALA:HB3	46:OJ:19:LYS:NZ	2.25	0.51
45:OM:208:ALA:O	45:OM:212:ILE:HG12	2.09	0.51
46:PF:293:MET:HG2	46:PF:365:VAL:HG11	1.93	0.51
45:PG:17:GLY:HA2	45:PG:20:CYS:SG	2.51	0.51
45:PM:88:HIS:O	45:PM:91:GLN:HG3	2.10	0.51
46:PN:58:ARG:NH1	46:PN:60:VAL:HG12	2.26	0.51
46:QB:1:MET:HE3	45:QC:72:PRO:HG2	1.90	0.51
46:QB:24:ILE:O	46:QB:27:GLU:HG2	2.11	0.51
46:QD:12:CYS:O	46:QD:16:ILE:HG12	2.10	0.51
46:QH:16:ILE:HD13	46:QH:226:ASN:OD1	2.10	0.51
46:QJ:221:THR:HG23	46:QJ:224:ASP:H	1.75	0.51
46:QL:209:ASP:OD1	46:QL:213:ARG:NE	2.42	0.51
46:QN:221:THR:HG23	46:QN:224:ASP:H	1.75	0.51
45:RE:205:ASP:OD2	45:RE:303:ALA:HA	2.11	0.51
46:RF:52:ASN:CG	46:RF:62:ARG:HE	2.18	0.51
46:RJ:73:MET:HE2	46:RJ:90:PHE:HD1	1.75	0.51
46:RJ:327:ASP:OD1	46:RJ:328:GLU:N	2.43	0.51
45:RK:241:SER:OG	45:RK:250:VAL:O	2.28	0.51
46:SB:268:ILE:HG13	46:SB:300:MET:SD	2.50	0.51
45:SE:98:ASP:O	45:SE:105:ARG:NH1	2.44	0.51
45:SI:90:GLU:HG3	45:SI:121:ARG:HH22	1.76	0.51
46:SJ:200:MET:CE	46:SJ:268:ILE:HG12	2.39	0.51
46:SJ:342:VAL:HG13	46:SJ:345:ILE:HG22	1.93	0.51
46:SL:309:ARG:NH2	46:SL:426:GLN:O	2.31	0.51
46:SL:374:ILE:HG12	46:SL:422:TYR:OH	2.10	0.51
46:SN:282:ARG:NH2	46:SN:292:GLN:OE1	2.39	0.51
46:TB:21:TRP:CZ3	46:TB:61:PRO:HB3	2.45	0.51
46:TD:230:SER:HA	46:TD:233:MET:HE3	1.93	0.51
45:TE:68:LEU:HD21	45:TE:118:CYS:SG	2.50	0.51
45:TI:56:THR:HG23	45:TI:58:ALA:H	1.75	0.51
45:TI:82:THR:HG23	45:TI:83:TYR:CD2	2.46	0.51
45:TI:176:GLN:OE1	45:TI:176:GLN:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TK:260:VAL:HB	46:TL:397:TRP:CZ2	2.39	0.51
46:TL:139:LEU:HD13	46:TL:168:SER:HB3	1.93	0.51
46:UF:226:ASN:HA	46:UF:229:VAL:HG12	1.93	0.51
45:UI:352:LYS:HE3	46:UJ:179:VAL:HG13	1.92	0.51
46:UN:289:LEU:HD23	46:UN:292:GLN:HE21	1.76	0.51
45:VA:141:VAL:HG11	45:VA:172:TYR:HD1	1.75	0.51
45:VC:398:MET:N	45:VC:398:MET:HE2	2.26	0.51
46:VH:226:ASN:HA	46:VH:229:VAL:HG12	1.93	0.51
46:VJ:342:VAL:HG13	46:VJ:345:ILE:HG22	1.93	0.51
45:VK:64:ARG:NH2	45:VK:129:CYS:SG	2.70	0.51
45:VK:178:SER:HB3	46:VL:347:ASN:ND2	2.26	0.51
46:VN:201:VAL:O	46:VN:202:ILE:HD13	2.10	0.51
46:VN:385:PHE:HE2	46:VN:412:GLU:HB2	1.75	0.51
46:WB:147:MET:HA	46:WB:150:LEU:HG	1.92	0.51
45:WE:67:PHE:HB2	45:WE:92:LEU:HD13	1.92	0.51
46:WH:204:ASN:OD1	46:WH:205:GLU:N	2.44	0.51
45:WK:55:GLU:CD	45:WK:57:GLY:H	2.19	0.51
45:WK:205:ASP:OD1	45:WK:303:ALA:HA	2.11	0.51
45:WM:120:ASP:HA	45:WM:123:ARG:HG2	1.92	0.51
45:CE:183:GLU:N	45:CE:184:PRO:HD2	2.26	0.51
2:0B:13:MET:HG3	2:0B:17:TRP:CD2	2.45	0.51
4:0D:125:PHE:CE2	25:1R:486:VAL:HG13	2.46	0.51
9:0N:142:ILE:HG22	9:0N:144:ARG:H	1.76	0.51
13:0U:512:ARG:NH1	13:0U:532:GLU:O	2.40	0.51
16:1B:218:ILE:O	16:1B:222:THR:HG23	2.10	0.51
3:1C:53:TYR:HB3	45:EM:221:ARG:NH2	2.25	0.51
18:1I:29:GLU:OE2	46:JD:218:THR:OG1	2.20	0.51
18:1I:180:ASP:OD2	18:1I:183:ILE:HG12	2.11	0.51
19:1J:111:TYR:HB3	46:HF:53:GLU:OE1	2.11	0.51
21:1L:41:LYS:NZ	46:BJ:40:SER:HA	2.25	0.51
22:1M:95:MET:HB3	22:1M:204:HIS:HB3	1.92	0.51
22:1M:96:ILE:HB	22:1M:157:VAL:HB	1.92	0.51
9:1N:361:ASP:HA	9:1N:364:ILE:HD13	1.93	0.51
12:1T:77:ASP:HB3	12:1T:103:VAL:CG1	2.40	0.51
12:1T:128:GLU:HA	45:AC:339:ARG:NH2	2.25	0.51
13:1U:230:LEU:HD12	13:1U:231:GLY:N	2.26	0.51
13:1U:343:ASP:OD1	13:1U:345:ARG:NH1	2.43	0.51
13:1U:404:HIS:CD2	13:1U:408:VAL:HG22	2.46	0.51
27:2C:108:LEU:HD22	27:2C:167:ARG:NH1	2.26	0.51
5:2E:27:LEU:HD11	5:2E:87:VAL:HG23	1.92	0.51
5:2E:129:HIS:CD2	5:2E:132:ILE:HG13	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:2K:283:TYR:O	20:2K:287:ILE:HG12	2.10	0.51
24:2P:376:ALA:HA	24:2P:379:LYS:HZ3	1.76	0.51
13:2U:325:ASP:OD2	13:2U:367:CYS:N	2.42	0.51
14:2V:21:ARG:NE	14:2V:22:ARG:H	2.05	0.51
27:3C:107:VAL:HG21	27:3C:171:VAL:HG23	1.91	0.51
25:3R:233:LYS:O	25:3R:236:MET:N	2.43	0.51
13:3U:419:ARG:NH2	13:3U:431:VAL:HG22	2.25	0.51
13:3U:549:VAL:HG13	13:3U:581:LEU:HD13	1.93	0.51
14:3V:69:SER:OG	46:MB:336:LYS:HB3	2.10	0.51
36:5C:141:SER:HB3	36:5C:144:LYS:HD2	1.93	0.51
37:5F:46:LEU:HG	37:5F:47:GLU:H	1.75	0.51
37:5F:142:TYR:HE2	46:OH:276:ARG:HB2	1.75	0.51
37:5G:17:ASN:HB2	37:5G:21:LEU:HD12	1.92	0.51
34:5R:381:PHE:CD2	46:DJ:32:PRO:HD2	2.46	0.51
40:6G:276:PRO:HG3	45:UC:113:GLU:O	2.10	0.51
34:7R:97:CYS:HB3	34:7R:180:ILE:HD13	1.92	0.51
34:7R:242:ASN:ND2	45:CA:285:GLN:O	2.40	0.51
46:AF:213:ARG:NH2	46:AF:297:LYS:HE3	2.26	0.51
45:AG:68:LEU:HD13	45:AG:93:ILE:HB	1.93	0.51
45:AI:205:ASP:OD1	45:AI:303:ALA:HA	2.10	0.51
45:BA:205:ASP:OD1	45:BA:303:ALA:HA	2.09	0.51
45:BK:223:THR:HG23	45:BK:225:THR:H	1.76	0.51
46:BL:285:THR:HB	46:BL:287:PRO:HD2	1.93	0.51
45:BM:210:TYR:CE1	46:BN:324:LYS:HG2	2.44	0.51
45:CA:328:VAL:HG11	45:CA:353:VAL:HG21	1.92	0.51
46:CH:101:TRP:HE3	46:CH:403:MET:HE1	1.76	0.51
46:CH:372:THR:O	46:CH:375:GLN:NE2	2.44	0.51
45:CM:121:ARG:HH21	45:CM:124:LYS:HD3	1.75	0.51
45:CM:231:ILE:O	45:CM:235:ILE:HG12	2.11	0.51
46:DD:87:PRO:HA	46:DD:90:PHE:HD2	1.75	0.51
45:DE:184:PRO:O	45:DE:188:ILE:HG12	2.10	0.51
45:DE:185:TYR:OH	45:DE:398:MET:HE2	2.10	0.51
45:DG:183:GLU:N	45:DG:184:PRO:HD2	2.26	0.51
45:DK:30:ILE:HD12	45:DK:36:MET:HA	1.92	0.51
46:EB:249:ASP:OD1	46:EB:252:LYS:N	2.38	0.51
45:EC:141:VAL:HG22	45:EC:187:SER:HA	1.93	0.51
45:EE:98:ASP:OD2	45:EE:99:ALA:N	2.43	0.51
46:EF:293:MET:HE2	46:EF:367:PHE:HD1	1.75	0.51
46:EJ:158:GLU:HG3	46:EJ:159:TYR:CD1	2.46	0.51
45:EK:174:SER:HB2	45:EK:177:VAL:O	2.10	0.51
46:EN:293:MET:HE2	46:EN:367:PHE:HD1	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FA:71:GLU:OE2	45:FA:73:THR:HG23	2.11	0.51
45:FC:322:ASP:OD1	45:FC:373:ARG:NH1	2.43	0.51
45:FG:390:ARG:HG3	45:FG:391:LEU:HD12	1.92	0.51
47:FG:501:GTP:O1G	46:FH:252:LYS:NZ	2.37	0.51
45:GA:259:LEU:HD21	45:GA:378:ILE:HG23	1.93	0.51
46:GD:97:ALA:HA	46:GD:103:LYS:HE3	1.91	0.51
46:GD:204:ASN:HB3	46:GD:208:TYR:HE2	1.74	0.51
45:GM:224:TYR:HE2	46:GN:246:LEU:HD11	1.74	0.51
46:GN:309:ARG:NH2	46:GN:426:GLN:O	2.39	0.51
45:HA:384:ILE:O	45:HA:387:VAL:HG22	2.11	0.51
46:HD:167:PHE:CE2	46:HD:200:MET:HG3	2.46	0.51
45:HE:102:ASN:OD1	45:HE:105:ARG:N	2.43	0.51
45:HE:137:VAL:HG23	45:HE:168:GLY:HA2	1.93	0.51
45:HE:164:LYS:O	45:HE:166:LYS:NZ	2.44	0.51
45:HG:167:LEU:HD23	45:HG:200:VAL:HB	1.93	0.51
45:HI:118:CYS:O	45:HI:122:ILE:HG12	2.10	0.51
45:HI:296:PHE:HE1	45:HI:377:MET:HE3	1.76	0.51
45:HM:88:HIS:ND1	45:HM:89:PRO:HD2	2.25	0.51
46:HN:409:THR:O	46:HN:412:GLU:HG3	2.10	0.51
46:IH:333:VAL:HA	46:IH:336:LYS:HG2	1.92	0.51
45:IK:85:GLN:O	46:JL:281:TYR:OH	2.28	0.51
45:IM:426:ALA:HB1	45:IM:430:LYS:NZ	2.24	0.51
46:IN:178:THR:HB	46:IN:181:GLU:OE2	2.10	0.51
45:JA:184:PRO:O	45:JA:188:ILE:HD12	2.10	0.51
46:JB:246:LEU:HB2	46:JB:353:ILE:HG22	1.92	0.51
45:JE:36:MET:HG3	45:JE:37:PRO:CD	2.41	0.51
46:JF:105:HIS:CD2	46:JF:150:LEU:HB2	2.45	0.51
45:JI:98:ASP:OD1	45:JI:99:ALA:N	2.43	0.51
45:JK:118:CYS:O	45:JK:122:ILE:HG12	2.10	0.51
45:KA:72:PRO:HD2	46:KB:2:ARG:HH21	1.75	0.51
46:KJ:170:VAL:HG21	46:KJ:377:MET:HE1	1.93	0.51
45:KK:255:PHE:O	45:KK:259:LEU:HB2	2.11	0.51
45:KM:407:TRP:HZ2	46:KN:258:ILE:HD11	1.76	0.51
46:LH:107:THR:OG1	46:LH:108:GLU:OE2	2.28	0.51
46:LL:73:MET:HG3	46:LL:77:ARG:NH2	2.26	0.51
45:MA:188:ILE:HD12	45:MA:425:LEU:HD11	1.92	0.51
46:MB:302:ALA:HB3	46:MB:377:MET:HE1	1.91	0.51
46:MF:239:CYS:HB3	46:MF:354:CYS:HB2	1.93	0.51
45:NE:132:LEU:HB3	45:NE:164:LYS:NZ	2.25	0.51
46:NJ:154:LYS:O	46:NJ:157:GLU:HG3	2.10	0.51
46:NJ:345:ILE:HG23	46:NJ:348:ASN:HD22	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:NL:128:ASP:OD1	46:NL:129:CYS:N	2.44	0.51
45:OA:31:GLN:OE1	45:OA:37:PRO:HG3	2.10	0.51
45:OA:102:ASN:HB3	46:OB:251:ARG:HH22	1.76	0.51
45:OA:203:MET:HE3	45:OA:384:ILE:HG12	1.92	0.51
46:OF:65:LEU:HD22	46:OF:90:PHE:CE2	2.46	0.51
46:OJ:286:VAL:HG11	46:OJ:326:VAL:HG22	1.93	0.51
46:OJ:299:MET:HE2	46:OJ:305:PRO:HG3	1.91	0.51
45:OK:427:ALA:O	45:OK:430:LYS:HG3	2.10	0.51
45:PC:90:GLU:O	45:PC:121:ARG:NH1	2.43	0.51
46:PF:45:GLU:CD	46:PF:46:ARG:HG2	2.35	0.51
45:PG:221:ARG:HA	46:PH:324:LYS:HZ1	1.75	0.51
45:PI:242:LEU:HD11	45:PI:252:ILE:HG12	1.92	0.51
45:PI:346:TRP:CD1	46:PL:391:ARG:HG3	2.45	0.51
45:PK:384:ILE:O	45:PK:387:VAL:HG12	2.10	0.51
45:PM:5:ILE:HD11	45:PM:135:PHE:CE1	2.45	0.51
45:QC:377:MET:SD	45:QC:379:SER:HB2	2.50	0.51
46:QF:284:LEU:HD11	46:QF:362:LYS:HG3	1.93	0.51
46:QH:346:PRO:O	45:QI:394:LYS:NZ	2.40	0.51
45:QI:211:ASP:OD2	45:QI:215:ARG:NH1	2.43	0.51
46:RB:330:MET:HE2	46:RB:349:ILE:HG21	1.92	0.51
46:RD:215:LEU:HD21	46:RD:273:LEU:HD12	1.91	0.51
45:RE:326:LYS:HZ1	46:RF:208:TYR:HB3	1.75	0.51
45:RG:247:ALA:HB3	45:RG:355:ILE:HD11	1.93	0.51
46:SD:139:LEU:HD22	46:SD:170:VAL:HG22	1.93	0.51
46:SJ:298:ASN:ND2	46:SJ:298:ASN:O	2.43	0.51
46:SJ:372:THR:HA	46:SJ:422:TYR:HE2	1.76	0.51
45:SK:141:VAL:HG12	45:SK:171:ILE:O	2.11	0.51
45:SM:85:GLN:CD	45:SM:85:GLN:H	2.19	0.51
46:SN:3:GLU:HG3	46:SN:62:ARG:NH1	2.25	0.51
46:SN:42:LEU:HA	46:SN:45:GLU:HG3	1.91	0.51
45:TA:135:PHE:HB2	45:TA:166:LYS:HG2	1.93	0.51
46:TB:317:PHE:CE2	46:TB:326:VAL:HG13	2.45	0.51
45:TC:265:ILE:O	45:TC:265:ILE:HG13	2.11	0.51
45:TE:420:GLU:HA	45:TE:423:GLU:CD	2.36	0.51
46:TF:345:ILE:O	46:TF:345:ILE:HG13	2.11	0.51
45:TK:11:GLN:NE2	47:TK:501:GTP:O3A	2.43	0.51
45:TK:108:TYR:CD2	45:TK:413:MET:HE1	2.46	0.51
45:TM:328:VAL:HG11	45:TM:353:VAL:HG21	1.93	0.51
46:TN:237:THR:HG23	46:TN:241:ARG:HH21	1.75	0.51
45:UA:108:TYR:HA	45:UA:112:LYS:HE3	1.93	0.51
46:UB:190:HIS:NE2	46:UB:415:MET:HG2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UB:324:LYS:CE	45:UC:222:PRO:HD2	2.41	0.51
45:UC:70:LEU:HD13	45:UC:95:GLY:HA3	1.93	0.51
46:UD:273:LEU:H	46:UD:292:GLN:NE2	2.06	0.51
45:UI:188:ILE:HD12	45:UI:425:LEU:HD11	1.91	0.51
45:UI:254:GLU:HA	45:UI:257:THR:HG22	1.92	0.51
45:UI:287:SER:O	45:UI:290:GLU:HG2	2.10	0.51
46:UJ:322:SER:H	45:UK:221:ARG:NH1	2.08	0.51
46:UJ:322:SER:H	45:UK:221:ARG:CZ	2.23	0.51
45:UK:350:GLY:HA2	46:UL:179:VAL:HG12	1.92	0.51
45:VA:338:LYS:NZ	45:VA:341:ILE:HG13	2.26	0.51
46:VB:114:ASP:OD1	46:VB:115:SER:N	2.42	0.51
45:VE:429:GLU:OE2	45:VE:430:LYS:HE3	2.11	0.51
46:VH:99:ASN:HD22	46:VH:142:GLY:H	1.57	0.51
46:VH:372:THR:HG21	46:VH:426:GLN:HB2	1.92	0.51
45:VI:3:GLU:HG3	45:VI:129:CYS:SG	2.51	0.51
46:VJ:165:GLU:OE2	46:VJ:250:LEU:HD11	2.09	0.51
46:VN:204:ASN:OD1	46:VN:205:GLU:N	2.44	0.51
46:WJ:186:THR:HA	46:WJ:189:VAL:HG12	1.91	0.51
45:WK:73:THR:HG22	46:WL:46:ARG:HH12	1.76	0.51
45:WK:180:ALA:HA	46:WL:350:LYS:HE2	1.93	0.51
46:WN:116:VAL:HA	46:WN:119:VAL:HG12	1.93	0.51
45:DC:183:GLU:N	45:DC:184:PRO:HD2	2.26	0.51
4:0D:44:TYR:HA	4:0D:45:ILE:HB	1.93	0.51
12:0T:10:ILE:HD11	12:0T:170:ALA:HB1	1.93	0.51
13:0U:351:ASN:ND2	13:0U:353:GLN:OE1	2.28	0.51
4:1D:99:ARG:HH22	45:EG:364:PRO:HA	1.76	0.51
8:1H:303:GLU:OE2	45:HC:282:TYR:CZ	2.64	0.51
18:1I:126:ASN:O	18:1I:129:GLU:HG3	2.11	0.51
20:1K:42:GLU:OE1	46:KF:213:ARG:HA	2.11	0.51
20:1K:158:THR:O	20:1K:161:GLU:HG3	2.10	0.51
12:1T:264:LYS:HE2	13:1U:27:ASN:HB2	1.92	0.51
27:2C:25:LYS:HD3	45:LI:364:PRO:HB3	1.93	0.51
27:2C:67:LYS:HB3	27:2C:70:ASP:HB2	1.92	0.51
27:2C:99:LEU:HD12	27:2C:175:GLU:HB3	1.93	0.51
4:2D:44:TYR:HA	4:2D:45:ILE:HB	1.92	0.51
21:2L:742:GLU:O	21:2L:746:ILE:HG13	2.11	0.51
22:2M:17:ALA:HB2	45:JG:282:TYR:CE1	2.45	0.51
9:2N:113:ARG:HA	9:2N:145:LEU:HD11	1.93	0.51
23:2O:418:GLN:HB3	23:2O:422:LYS:NZ	2.26	0.51
10:2Q:100:ARG:HH12	45:AE:434:GLU:HG2	1.76	0.51
11:2S:239:VAL:HG13	11:2S:293:LEU:HD21	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:2S:256:LEU:HB3	11:2S:309:MET:HG2	1.92	0.51
12:3T:109:CYS:SG	12:3T:128:GLU:HG3	2.50	0.51
14:3V:18:PRO:C	14:3V:19:LYS:HD3	2.36	0.51
33:4F:150:PRO:HG2	33:4F:152:GLN:NE2	2.26	0.51
10:4Q:80:ILE:HD12	10:4Q:162:ILE:HG22	1.93	0.51
36:5C:142:GLN:CD	46:NL:245:GLN:HE22	2.18	0.51
35:5S:64:LEU:HB3	35:5S:107:GLU:HG2	1.92	0.51
46:AB:190:HIS:CD2	46:AB:411:ALA:HA	2.46	0.51
46:AH:5:VAL:HG12	46:AH:62:ARG:HD3	1.91	0.51
46:AJ:87:PRO:HA	46:AJ:90:PHE:HD2	1.76	0.51
45:AM:320:ARG:NH2	45:AM:358:GLN:OE1	2.44	0.51
46:AN:268:ILE:O	46:AN:300:MET:HB2	2.11	0.51
45:BC:387:VAL:O	45:BC:390:ARG:HG2	2.11	0.51
46:BH:52:ASN:OD1	46:BH:62:ARG:NH2	2.38	0.51
45:BK:2:ARG:HB3	45:BK:133:GLN:HE22	1.76	0.51
46:CD:258:ILE:O	46:CD:258:ILE:HG13	2.10	0.51
46:CH:326:VAL:O	46:CH:330:MET:HG2	2.10	0.51
45:CI:117:LEU:O	45:CI:121:ARG:HG2	2.11	0.51
45:CM:430:LYS:HA	45:CM:433:GLU:CD	2.36	0.51
46:DD:19:LYS:O	46:DD:22:GLU:HG3	2.10	0.51
46:DD:148:GLY:O	46:DD:152:ILE:HG13	2.10	0.51
46:DD:166:THR:OG1	46:DD:199:CYS:SG	2.67	0.51
46:DF:67:ASP:OD1	46:DF:68:LEU:N	2.43	0.51
46:DF:344:TRP:HB3	46:DF:430:ALA:HB2	1.92	0.51
45:DI:318:MET:HB2	45:DI:376:CYS:SG	2.50	0.51
45:DM:288:VAL:HA	45:DM:291:ILE:HG12	1.92	0.51
46:EB:298:ASN:ND2	46:EB:298:ASN:O	2.42	0.51
45:EC:55:GLU:HG3	45:EC:57:GLY:H	1.74	0.51
46:EN:31:ASP:OD2	46:EN:37:HIS:ND1	2.43	0.51
46:EN:45:GLU:HG3	46:EN:46:ARG:HG2	1.93	0.51
46:FB:207:LEU:HD13	46:FB:225:LEU:HB3	1.92	0.51
46:FB:262:ARG:NH1	46:FB:421:GLU:OE1	2.41	0.51
46:FB:342:VAL:HG13	46:FB:345:ILE:HG22	1.93	0.51
46:FF:21:TRP:CZ3	46:FF:61:PRO:HB3	2.46	0.51
46:FF:318:ARG:HB3	46:FF:357:PRO:HA	1.93	0.51
46:FH:362:LYS:HE2	46:FH:362:LYS:HA	1.92	0.51
46:GB:116:VAL:HA	46:GB:119:VAL:HG12	1.93	0.51
46:GF:268:ILE:HG13	46:GF:300:MET:HE3	1.92	0.51
45:GG:221:ARG:NH1	46:GH:322:SER:H	2.08	0.51
46:GJ:350:LYS:NZ	46:GJ:352:SER:OG	2.44	0.51
46:GN:267:MET:HE3	46:GN:374:ILE:HG22	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HE:7:ILE:HB	45:HE:137:VAL:HG12	1.93	0.51
46:HF:131:GLN:O	46:HF:163:ILE:HG12	2.11	0.51
46:HH:16:ILE:HD12	46:HH:229:VAL:HG11	1.92	0.51
46:HJ:232:ALA:HB1	46:HJ:268:ILE:HD12	1.92	0.51
45:HK:210:TYR:CD1	46:HL:324:LYS:HD3	2.45	0.51
45:HK:328:VAL:O	45:HK:332:ILE:HG12	2.11	0.51
46:IB:67:ASP:O	46:IB:92:PHE:HA	2.11	0.51
46:IF:254:ALA:O	46:IF:258:ILE:HG22	2.11	0.51
45:II:107:HIS:O	45:II:107:HIS:ND1	2.44	0.51
45:JE:393:HIS:O	45:JE:397:LEU:HD23	2.10	0.51
45:JG:174:SER:HB2	45:JG:177:VAL:O	2.11	0.51
45:JG:210:TYR:CE1	45:JG:227:LEU:HD21	2.45	0.51
45:JK:213:CYS:SG	45:JK:222:PRO:HG3	2.51	0.51
46:KB:16:ILE:HD12	46:KB:229:VAL:HG21	1.93	0.51
45:KC:301:MET:HE3	45:KC:301:MET:HA	1.91	0.51
46:KD:128:ASP:OD1	46:KD:129:CYS:N	2.43	0.51
45:KE:325:PRO:HA	45:KE:328:VAL:HG22	1.93	0.51
45:KG:9:VAL:HG23	45:KG:139:ASN:HB3	1.92	0.51
45:KK:208:ALA:O	45:KK:212:ILE:HG12	2.09	0.51
45:KK:326:LYS:NZ	46:KN:220:PRO:O	2.43	0.51
46:KL:41:ASP:O	46:KL:45:GLU:HG2	2.11	0.51
46:KN:169:VAL:HG23	46:KN:169:VAL:O	2.10	0.51
46:MB:105:HIS:CE1	46:MB:150:LEU:HD12	2.45	0.51
46:MF:132:GLY:HA3	46:MF:163:ILE:HG22	1.92	0.51
46:MF:139:LEU:HD13	46:MF:168:SER:HB3	1.92	0.51
45:MM:11:GLN:NE2	45:MM:71:GLU:OE2	2.36	0.51
46:NB:257:LEU:HD11	46:NB:314:SER:HB3	1.92	0.51
46:NF:269:GLY:HA2	46:NF:300:MET:HE2	1.91	0.51
46:NH:325:GLU:HA	46:NH:328:GLU:HG3	1.93	0.51
45:OC:5:ILE:HD11	45:OC:135:PHE:CE2	2.45	0.51
45:OC:71:GLU:HG2	45:OC:98:ASP:HB3	1.91	0.51
46:OD:217:LEU:HG	46:OD:276:ARG:HH12	1.75	0.51
45:OE:298:PRO:HG3	45:OE:308:ARG:NH2	2.26	0.51
45:OE:399:TYR:OH	45:OE:415:GLU:OE2	2.27	0.51
46:OF:372:THR:HG21	46:OF:426:GLN:HG3	1.92	0.51
46:OL:130:LEU:O	46:OL:162:ARG:NE	2.40	0.51
45:OM:189:LEU:HD11	45:OM:418:PHE:HE1	1.76	0.51
45:PC:210:TYR:CE1	45:PC:227:LEU:HD21	2.45	0.51
46:PF:167:PHE:CZ	46:PF:200:MET:HG3	2.45	0.51
45:PG:331:SER:O	45:PG:335:ILE:HG12	2.11	0.51
45:PG:426:ALA:C	45:PG:430:LYS:HZ2	2.19	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PH:153:SER:HB3	46:PH:154:LYS:HZ2	1.75	0.51
45:PI:21:TRP:CZ2	45:PI:65:ALA:HB2	2.45	0.51
45:PI:90:GLU:H	45:QI:280:LYS:NZ	2.08	0.51
46:PJ:67:ASP:HB3	46:PJ:73:MET:HE2	1.91	0.51
46:PJ:68:LEU:HD12	46:PJ:93:GLY:HA3	1.92	0.51
46:PL:238:CYS:SG	46:PL:239:CYS:N	2.83	0.51
46:PN:210:ILE:O	46:PN:214:THR:HG22	2.10	0.51
45:QE:52:PHE:HZ	45:QE:239:THR:HG21	1.74	0.51
46:QF:344:TRP:HB3	46:QF:430:ALA:HB2	1.92	0.51
45:QG:217:LEU:HD22	45:QG:367:ASP:HB3	1.92	0.51
46:QJ:67:ASP:HB3	46:QJ:73:MET:HE2	1.93	0.51
46:QL:362:LYS:HD2	46:QL:363:MET:HG2	1.93	0.51
45:RC:104:ALA:HB2	45:RC:413:MET:SD	2.50	0.51
45:RG:229:ARG:NH1	45:RG:366:GLY:HA2	2.26	0.51
45:RG:255:PHE:HA	45:RG:259:LEU:HD23	1.92	0.51
46:RH:289:LEU:HD13	46:RH:365:VAL:HG23	1.93	0.51
46:SD:332:ASN:HA	46:SD:335:ASN:ND2	2.25	0.51
46:SF:309:ARG:H	46:SF:372:THR:HG22	1.75	0.51
45:SG:141:VAL:HG12	45:SG:171:ILE:O	2.10	0.51
46:SL:73:MET:HA	46:SL:76:VAL:HG22	1.92	0.51
46:TH:161:ASP:O	46:TH:251:ARG:NH2	2.42	0.51
45:TK:28:HIS:NE2	45:TK:49:PHE:HB3	2.25	0.51
46:UB:208:TYR:CE1	46:UB:225:LEU:HD11	2.45	0.51
45:UC:3:GLU:OE2	45:UC:131:GLY:N	2.43	0.51
45:UC:223:THR:HG23	45:UC:225:THR:H	1.75	0.51
45:UE:250:VAL:HG13	45:UE:254:GLU:HB2	1.93	0.51
46:UJ:290:THR:HA	46:UJ:293:MET:HE3	1.93	0.51
45:UK:2:ARG:O	45:UK:51:THR:HA	2.10	0.51
46:UN:20:PHE:O	46:UN:24:ILE:HG12	2.11	0.51
46:UN:190:HIS:CE1	46:UN:414:ASN:HD22	2.28	0.51
46:UN:293:MET:SD	46:UN:365:VAL:HG11	2.50	0.51
45:VA:326:LYS:HG3	45:VA:327:ASP:N	2.25	0.51
45:VG:140:SER:OG	47:VG:501:GTP:O2B	2.27	0.51
46:VL:105:HIS:CE1	46:VL:150:LEU:HD12	2.45	0.51
46:VL:117:LEU:HA	46:VL:120:VAL:HG12	1.92	0.51
46:VL:186:THR:HA	46:VL:189:VAL:HG12	1.90	0.51
46:VL:362:LYS:C	46:VL:363:MET:HE2	2.35	0.51
45:WC:346:TRP:CD1	46:WF:391:ARG:HG3	2.46	0.51
45:DC:259:LEU:HD21	45:DC:316:SER:HB2	1.91	0.51
3:0C:99:GLU:O	3:0C:102:ARG:HG3	2.10	0.51
17:1F:35:ASN:HA	8:1H:88:ARG:HH12	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:1H:42:ASP:O	8:1H:46:ARG:HG3	2.11	0.51
22:1M:207:ASP:OD2	22:1M:208:SER:N	2.44	0.51
9:1N:487:SER:HG	9:1N:488:TRP:CD1	2.28	0.51
23:1O:90:VAL:HG12	23:1O:94:LYS:HZ1	1.75	0.51
24:1P:327:GLN:O	24:1P:331:GLN:HG3	2.11	0.51
25:1R:508:LYS:O	25:1R:512:ASN:ND2	2.32	0.51
14:1V:137:ASN:ND2	46:LL:425:TYR:OH	2.44	0.51
27:2C:64:PHE:CD2	27:2C:66:LEU:HD11	2.45	0.51
5:2E:9:ILE:HG22	5:2E:13:ARG:NH2	2.25	0.51
22:2M:97:LYS:HD2	22:2M:151:MET:HE1	1.93	0.51
22:2M:238:CYS:SG	22:2M:306:LEU:HB2	2.51	0.51
22:2M:273:ASP:HA	22:2M:299:THR:HG23	1.93	0.51
23:2O:403:LYS:O	23:2O:407:GLU:HG2	2.10	0.51
11:2S:90:VAL:HG12	11:2S:92:LYS:H	1.76	0.51
1:3A:134:LYS:O	46:AN:320:ARG:NH2	2.42	0.51
16:3B:139:THR:HG23	16:3B:142:GLN:H	1.74	0.51
16:3B:182:GLU:O	16:3B:186:ILE:HD12	2.10	0.51
27:3C:100:ASN:OD1	27:3C:101:GLN:N	2.44	0.51
23:3O:358:GLU:OE1	23:3O:362:ARG:NH1	2.44	0.51
23:3O:403:LYS:HA	23:3O:406:ARG:HG2	1.92	0.51
12:3T:25:GLN:HG3	12:3T:163:VAL:HG21	1.92	0.51
14:3V:43:THR:HG23	14:3V:62:HIS:HB2	1.93	0.51
27:4C:108:LEU:HD22	27:4C:167:ARG:HH21	1.75	0.51
10:4Q:6:PHE:HE1	10:4Q:8:SER:HB3	1.74	0.51
37:5G:213:TYR:HD1	37:5G:216:LYS:HD2	1.76	0.51
37:5H:44:ARG:HH12	45:OK:285:GLN:CD	2.18	0.51
39:6F:118:HIS:HA	39:6F:121:GLU:OE1	2.10	0.51
40:6G:122:TYR:HA	46:VJ:213:ARG:HH12	1.75	0.51
10:6Q:122:PRO:O	10:6Q:123:MET:HE2	2.11	0.51
34:6R:426:PHE:HE2	34:6R:490:PHE:HB3	1.76	0.51
34:6R:427:GLU:OE1	34:6R:507:ARG:HG2	2.11	0.51
45:AC:420:GLU:HA	45:AC:423:GLU:OE1	2.11	0.51
46:AD:12:CYS:O	46:AD:16:ILE:HG12	2.11	0.51
46:AD:332:ASN:O	46:AD:336:LYS:HG2	2.11	0.51
45:AG:11:GLN:NE2	47:AG:501:GTP:O3A	2.44	0.51
45:AM:430:LYS:O	45:AM:433:GLU:HG2	2.11	0.51
46:AN:200:MET:HE1	46:AN:268:ILE:HG21	1.93	0.51
46:AN:315:ALA:HB1	46:AN:317:PHE:CE1	2.46	0.51
46:BD:287:PRO:HG3	46:BD:329:GLN:NE2	2.26	0.51
46:BH:55:THR:O	46:CF:280:GLN:NE2	2.37	0.51
46:BH:222:TYR:HD1	49:BH:501:GDP:C6	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BL:178:THR:HB	46:BL:181:GLU:HG3	1.91	0.51
45:CC:296:PHE:CE2	45:CC:335:ILE:HD13	2.46	0.51
45:CG:90:GLU:HG3	45:DG:280:LYS:HZ3	1.76	0.51
46:CH:171:PRO:HB3	46:CH:181:GLU:OE2	2.10	0.51
46:CJ:313:ALA:HB1	46:CJ:367:PHE:HE1	1.76	0.51
45:DA:188:ILE:HD11	45:DA:391:LEU:HB3	1.93	0.51
46:DL:86:ARG:HH11	46:EL:281:TYR:HB2	1.75	0.51
46:EB:261:PRO:HD3	45:EC:406:HIS:CE1	2.46	0.51
45:EC:3:GLU:HG2	45:EC:64:ARG:CZ	2.40	0.51
45:EC:241:SER:OG	45:EC:250:VAL:O	2.23	0.51
45:EE:208:ALA:O	45:EE:212:ILE:HG12	2.10	0.51
45:EI:37:PRO:HD2	45:EI:40:LYS:HB2	1.93	0.51
46:EL:67:ASP:O	46:EL:92:PHE:HA	2.11	0.51
45:FC:90:GLU:HB2	45:FC:121:ARG:HH21	1.74	0.51
45:FC:164:LYS:O	45:FC:166:LYS:NZ	2.43	0.51
46:FD:215:LEU:HB2	46:FD:217:LEU:HD22	1.93	0.51
46:FJ:66:MET:HA	46:FJ:91:VAL:O	2.11	0.51
45:FK:275:ILE:HA	45:FK:368:LEU:HD11	1.92	0.51
46:GB:372:THR:HA	46:GB:422:TYR:HE2	1.75	0.51
46:GJ:12:CYS:O	46:GJ:16:ILE:HG12	2.10	0.51
45:GK:248:LEU:HD13	45:GK:355:ILE:HD12	1.92	0.51
46:GL:287:PRO:HG3	46:GL:329:GLN:NE2	2.26	0.51
45:HC:68:LEU:HD11	45:HC:118:CYS:SG	2.50	0.51
46:HD:193:VAL:HA	46:HD:264:HIS:HE1	1.76	0.51
46:HD:252:LYS:HG2	46:HD:350:LYS:HZ1	1.75	0.51
45:HI:21:TRP:CZ2	45:HI:65:ALA:HB2	2.45	0.51
45:HK:333:ALA:O	45:HK:337:THR:HG23	2.10	0.51
45:IA:249:ASN:OD1	45:IA:250:VAL:N	2.43	0.51
45:IC:107:HIS:ND1	45:IC:107:HIS:O	2.44	0.51
46:ID:65:LEU:HD22	46:ID:90:PHE:CE1	2.46	0.51
46:IF:67:ASP:HB3	46:IF:73:MET:HE3	1.92	0.51
46:IJ:144:GLY:HA2	46:IJ:147:MET:HE2	1.93	0.51
45:IK:69:ASP:OD1	45:IK:70:LEU:N	2.44	0.51
46:IN:299:MET:HE1	46:IN:367:PHE:HE2	1.75	0.51
45:JA:298:PRO:HD2	45:JA:299:ALA:N	2.25	0.51
45:JI:337:THR:O	45:JI:339:ARG:NH1	2.44	0.51
46:JJ:145:SER:OG	46:JJ:188:SER:HB3	2.10	0.51
45:JK:102:ASN:ND2	45:JK:105:ARG:HG3	2.25	0.51
46:JN:403:MET:HA	46:JN:403:MET:HE3	1.93	0.51
46:KB:9:GLY:HA2	46:KB:66:MET:O	2.11	0.51
46:KB:67:ASP:O	46:KB:92:PHE:HA	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KG:246:GLY:HA2	45:KG:357:TYR:HD2	1.75	0.51
45:LA:60:LYS:HD3	45:MA:283:HIS:HB3	1.93	0.51
46:LB:313:ALA:HB3	46:LB:349:ILE:HG12	1.93	0.51
45:LI:196:GLU:OE1	45:LI:196:GLU:N	2.44	0.51
46:LJ:6:HIS:O	46:LJ:63:ALA:HA	2.10	0.51
46:LL:298:ASN:HD22	46:LL:298:ASN:C	2.18	0.51
46:LN:302:ALA:HB3	46:LN:377:MET:HE1	1.93	0.51
46:MB:118:ASP:CG	46:MB:122:LYS:HZ3	2.18	0.51
45:ME:68:LEU:HD11	45:ME:118:CYS:SG	2.51	0.51
45:ME:140:SER:OG	47:ME:501:GTP:O2B	2.26	0.51
46:MN:405:GLU:HA	46:MN:408:PHE:HD2	1.76	0.51
45:NA:19:ALA:O	45:NA:22:GLU:HG2	2.11	0.51
45:NA:21:TRP:CZ2	45:NA:65:ALA:HB2	2.46	0.51
45:NC:9:VAL:HG13	45:NC:139:ASN:HB3	1.93	0.51
46:ND:67:ASP:O	46:ND:92:PHE:HA	2.10	0.51
46:NF:3:GLU:H	46:NF:3:GLU:CD	2.19	0.51
45:NG:338:LYS:HE2	45:NG:340:THR:H	1.74	0.51
46:NJ:64:ILE:HD11	46:NJ:123:GLU:HG3	1.92	0.51
46:OB:399:THR:HA	46:OB:403:MET:O	2.11	0.51
45:OC:89:PRO:HD2	45:PC:280:LYS:HG2	1.93	0.51
45:OC:221:ARG:HH12	46:OD:320:ARG:HH22	1.59	0.51
45:OI:69:ASP:OD1	45:OI:70:LEU:N	2.43	0.51
45:OM:206:ASN:O	45:OM:210:TYR:HD2	1.94	0.51
45:PA:124:LYS:NZ	45:PA:128:ASN:OD1	2.44	0.51
46:PD:267:MET:HE2	46:PD:299:MET:HE3	1.91	0.51
45:PE:98:ASP:OD1	45:PE:99:ALA:N	2.44	0.51
45:PG:224:TYR:HE1	47:PG:501:GTP:C4	2.29	0.51
45:PI:145:THR:HG22	47:PI:501:GTP:PG	2.51	0.51
46:PL:167:PHE:CG	46:PL:233:MET:HE1	2.46	0.51
45:PM:100:ALA:HB1	46:PN:252:LYS:HA	1.92	0.51
46:QD:312:THR:HG22	46:QD:370:ASN:HB3	1.92	0.51
46:QH:10:GLY:O	46:QH:14:ASN:ND2	2.44	0.51
45:QK:346:TRP:CD1	46:QL:391:ARG:HG3	2.45	0.51
45:QK:393:HIS:O	45:QK:397:LEU:HD23	2.11	0.51
46:QN:100:ASN:HD21	46:QN:102:ALA:HB3	1.76	0.51
45:RG:328:VAL:HG11	45:RG:353:VAL:HG21	1.92	0.51
45:RI:292:THR:HG21	45:RI:331:SER:HB2	1.90	0.51
45:RK:20:CYS:HG	45:RK:21:TRP:CD1	2.29	0.51
45:RK:265:ILE:HG12	45:RK:432:TYR:HE1	1.74	0.51
46:SD:380:ARG:O	46:SD:384:GLN:HG2	2.10	0.51
46:SF:347:ASN:O	45:SG:181:VAL:HG12	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SG:183:GLU:N	45:SG:184:PRO:HD2	2.26	0.51
45:SK:248:LEU:HB3	45:SK:355:ILE:HG12	1.92	0.51
46:TD:1:MET:HE2	46:TD:1:MET:HA	1.93	0.51
45:TE:352:LYS:HZ1	46:TF:179:VAL:HG13	1.76	0.51
46:TF:58:ARG:HH12	46:UF:280:GLN:HB3	1.75	0.51
46:TH:21:TRP:HA	46:TH:24:ILE:HG22	1.93	0.51
46:TH:318:ARG:HD3	46:TH:358:PRO:HD3	1.93	0.51
46:TJ:167:PHE:CE2	46:TJ:233:MET:HG2	2.45	0.51
45:UE:10:GLY:O	45:UE:14:ILE:HG12	2.11	0.51
46:UF:296:ALA:HB3	46:UF:297:LYS:NZ	2.26	0.51
46:UJ:116:VAL:HA	46:UJ:119:VAL:HG12	1.93	0.51
46:UJ:121:ARG:O	46:UJ:124:ALA:N	2.44	0.51
46:UJ:342:VAL:HG13	46:UJ:345:ILE:HG22	1.93	0.51
45:VE:413:MET:HE3	45:VE:413:MET:HA	1.93	0.51
46:VF:16:ILE:HD13	46:VF:226:ASN:OD1	2.09	0.51
46:WH:30:ILE:HG13	46:WH:51:TYR:HE1	1.76	0.51
46:WJ:303:ALA:HB2	46:WJ:377:MET:SD	2.51	0.51
46:WL:222:TYR:HA	46:WL:225:LEU:HG	1.92	0.51
46:WN:63:ALA:O	46:WN:89:ASN:ND2	2.33	0.51
4:0D:6:ARG:NH1	46:CB:41:ASP:O	2.44	0.51
4:0D:218:GLN:HG3	4:0D:219:ASN:N	2.26	0.51
6:0F:23:PRO:HB2	6:0F:25:HIS:NE2	2.26	0.51
12:0T:269:LYS:HE3	13:0U:304:TRP:NE1	2.26	0.51
13:0U:21:LEU:O	13:0U:22:ILE:HD13	2.11	0.51
13:0U:174:THR:HB	13:0U:183:LYS:HB3	1.93	0.51
4:1D:224:ARG:NH2	34:4R:492:ILE:HG13	2.26	0.51
7:1G:175:THR:HB	46:LD:212:PHE:CD2	2.45	0.51
8:1H:217:GLU:HG2	8:1H:220:LYS:HZ2	1.75	0.51
8:1H:276:LYS:CE	20:1K:119:LEU:HB3	2.41	0.51
8:1H:345:ALA:O	8:1H:349:ARG:HG2	2.11	0.51
18:1I:124:GLU:HA	18:1I:127:GLU:CD	2.36	0.51
20:1K:94:TYR:O	20:1K:97:GLU:HG3	2.10	0.51
20:1K:105:PRO:HA	20:1K:108:ILE:HD12	1.93	0.51
20:1K:233:LEU:O	20:1K:237:GLU:HG2	2.10	0.51
9:1N:211:HIS:CE1	9:1N:213:PRO:HD2	2.46	0.51
23:1O:115:GLN:HA	23:1O:118:GLU:HG2	1.93	0.51
25:1R:68:MET:HG3	25:1R:73:ASP:HB3	1.93	0.51
12:1T:107:ARG:NH2	12:1T:128:GLU:OE2	2.44	0.51
14:1V:131:LYS:HB2	14:1V:133:TYR:HE1	1.76	0.51
14:1V:231:LYS:HD3	14:1V:232:ILE:N	2.26	0.51
21:2L:792:LYS:O	21:2L:795:ASN:HB2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:2O:201:GLU:HA	23:2O:204:LYS:HG2	1.92	0.51
23:2O:316:LYS:O	23:2O:320:ARG:HG2	2.11	0.51
32:3D:4:ILE:HG22	32:3D:6:LYS:H	1.76	0.51
23:3O:456:LEU:HD12	23:3O:459:GLN:HE21	1.75	0.51
12:3T:29:ASN:HB3	12:3T:32:TYR:HD1	1.75	0.51
13:3U:332:TYR:CZ	13:3U:334:ASP:HB2	2.45	0.51
33:4F:72:GLN:O	33:4F:74:HIS:N	2.42	0.51
36:5A:57:PRO:HG2	46:KB:390:ARG:CZ	2.40	0.51
37:5E:116:TYR:OH	45:OA:283:HIS:NE2	2.38	0.51
37:5E:142:TYR:HA	37:5E:145:GLU:OE2	2.10	0.51
35:5S:167:LYS:O	35:5S:171:SER:HB3	2.11	0.51
10:6Q:169:ASP:HB2	10:6Q:170:ARG:HH11	1.75	0.51
34:6R:80:ARG:NH2	45:MM:36:MET:O	2.43	0.51
45:AI:283:HIS:CD2	45:MI:60:LYS:HD2	2.45	0.51
46:AJ:290:THR:HA	46:AJ:293:MET:HE2	1.92	0.51
45:AK:69:ASP:OD1	45:AK:70:LEU:N	2.44	0.51
45:AK:268:MET:HB2	45:AK:379:SER:O	2.10	0.51
45:BA:231:ILE:O	45:BA:235:ILE:HG12	2.09	0.51
46:BF:299:MET:HE1	46:BF:367:PHE:HE2	1.75	0.51
46:BL:3:GLU:HG3	46:BL:62:ARG:HH12	1.76	0.51
45:BM:90:GLU:HG3	45:BM:121:ARG:HH12	1.76	0.51
45:CA:5:ILE:HD11	45:CA:135:PHE:CE1	2.45	0.51
46:CF:274:THR:HB	46:CF:282:ARG:HH11	1.76	0.51
45:CK:113:GLU:HG3	45:CK:114:ILE:HG12	1.92	0.51
46:CN:97:ALA:HA	46:CN:103:LYS:HG2	1.93	0.51
45:DA:271:SER:HB2	45:DA:377:MET:HB3	1.93	0.51
46:DB:19:LYS:O	46:DB:22:GLU:HG3	2.11	0.51
46:DB:47:ILE:HD12	46:DB:59:TYR:HE1	1.74	0.51
46:DD:174:LYS:HB2	46:DD:205:GLU:OE2	2.11	0.51
46:DF:344:TRP:CD1	45:DG:401:LYS:HZ3	2.29	0.51
45:DM:91:GLN:HG3	45:DM:92:LEU:HD12	1.93	0.51
46:DN:221:THR:HG23	46:DN:224:ASP:H	1.76	0.51
45:EA:244:PHE:HB2	45:EA:356:ASN:HD21	1.74	0.51
45:EE:288:VAL:HA	45:EE:291:ILE:HG12	1.92	0.51
45:EE:329:ASN:OD1	45:EE:330:ALA:N	2.43	0.51
46:EF:173:PRO:HG2	46:EF:380:ARG:HE	1.75	0.51
45:EG:188:ILE:HD12	45:EG:425:LEU:HD11	1.91	0.51
46:EH:67:ASP:OD1	46:EH:68:LEU:N	2.44	0.51
46:EH:105:HIS:CE1	46:EH:150:LEU:HD12	2.46	0.51
46:EH:394:PHE:HA	46:EH:397:TRP:HZ3	1.76	0.51
46:EN:268:ILE:HG22	46:EN:368:VAL:HG22	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FA:60:LYS:NZ	45:FA:85:GLN:O	2.38	0.51
45:FE:223:THR:HG23	45:FE:225:THR:H	1.76	0.51
45:FG:362:VAL:HG23	45:FG:368:LEU:HD12	1.91	0.51
46:FJ:377:MET:O	46:FJ:381:VAL:HG22	2.10	0.51
46:FL:293:MET:HE3	46:FL:367:PHE:HB2	1.93	0.51
46:FL:350:LYS:HA	46:FL:350:LYS:HE2	1.93	0.51
45:FM:11:GLN:HG3	45:FM:74:VAL:HG11	1.93	0.51
45:GC:22:GLU:OE1	45:GC:363:VAL:HG21	2.11	0.51
45:GE:222:PRO:HD2	46:GF:324:LYS:CE	2.41	0.51
45:GG:328:VAL:HG21	45:GG:353:VAL:HG21	1.92	0.51
46:GL:333:VAL:O	46:GL:337:ASN:ND2	2.43	0.51
45:HA:221:ARG:NH2	46:HB:321:MET:HB2	2.26	0.51
46:HB:6:HIS:O	46:HB:63:ALA:HA	2.11	0.51
46:HB:118:ASP:O	46:HB:121:ARG:HG3	2.11	0.51
46:HB:132:GLY:HA2	46:HB:162:ARG:HB3	1.91	0.51
46:HD:36:TYR:CD2	46:HD:44:LEU:HD21	2.45	0.51
46:HH:344:TRP:H	46:HH:344:TRP:CD1	2.27	0.51
45:IA:215:ARG:NH2	45:IA:300:ASN:OD1	2.44	0.51
46:IB:166:THR:HG21	46:IB:192:LEU:HD11	1.93	0.51
46:ID:117:LEU:HA	46:ID:120:VAL:HG12	1.93	0.51
46:ID:207:LEU:HD23	46:ID:300:MET:HG2	1.93	0.51
46:IF:311:LEU:HD23	46:IF:342:VAL:HG11	1.92	0.51
46:IF:378:PHE:HB3	46:IF:415:MET:SD	2.51	0.51
45:IM:15:GLN:HA	45:IM:18:ASN:HD22	1.75	0.51
45:JC:2:ARG:HD3	45:JC:2:ARG:H	1.76	0.51
46:JJ:181:GLU:HB3	46:JJ:182:PRO:HD3	1.93	0.51
45:JK:256:GLN:HB2	46:JN:397:TRP:CH2	2.46	0.51
46:JL:19:LYS:HZ1	46:JL:227:HIS:HB2	1.75	0.51
46:JN:44:LEU:HA	46:JN:47:ILE:HG23	1.93	0.51
45:KA:426:ALA:O	45:KA:430:LYS:HG3	2.11	0.51
46:KB:178:THR:HG22	46:KB:180:VAL:H	1.76	0.51
46:KF:51:TYR:HB3	46:KF:59:TYR:HB3	1.92	0.51
46:KF:417:ASP:O	46:KF:421:GLU:HG2	2.11	0.51
45:KG:205:ASP:OD1	45:KG:303:ALA:HA	2.11	0.51
46:LB:326:VAL:O	46:LB:330:MET:HG2	2.10	0.51
46:LF:54:ALA:HB3	46:LF:58:ARG:HG2	1.93	0.51
45:LG:172:TYR:HD1	45:LG:203:MET:SD	2.34	0.51
45:LG:241:SER:OG	45:LG:250:VAL:O	2.27	0.51
46:LJ:206:ALA:O	46:LJ:210:ILE:HG12	2.09	0.51
46:LL:21:TRP:CZ3	46:LL:61:PRO:HB3	2.45	0.51
46:LN:6:HIS:O	46:LN:63:ALA:HA	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MC:401:LYS:HZ1	46:MD:344:TRP:CG	2.29	0.51
45:MG:329:ASN:ND2	46:MJ:175:VAL:HG21	2.26	0.51
45:NA:239:THR:HG23	45:NA:243:ARG:HH21	1.76	0.51
45:NC:224:TYR:HD1	45:NC:227:LEU:HD12	1.76	0.51
46:NH:309:ARG:HE	46:NH:342:VAL:HA	1.75	0.51
46:NJ:178:THR:HB	46:NJ:181:GLU:HG3	1.91	0.51
45:NK:35:GLN:OE1	45:NK:60:LYS:HB3	2.11	0.51
45:NM:284:GLU:CD	45:NM:286:LEU:H	2.18	0.51
45:OA:274:PRO:HG3	45:OA:371:VAL:HG11	1.91	0.51
46:OF:372:THR:HA	46:OF:422:TYR:CE2	2.46	0.51
45:OG:268:MET:HG3	45:OG:380:ASN:HB2	1.92	0.51
46:ON:11:GLN:NE2	49:ON:501:GDP:O1A	2.44	0.51
46:PB:260:PHE:HB2	46:PB:263:LEU:HD13	1.93	0.51
45:PC:265:ILE:HG22	45:PC:380:ASN:HD21	1.75	0.51
46:PD:70:PRO:HG3	46:PD:92:PHE:HB2	1.93	0.51
46:PF:16:ILE:HD13	46:PF:226:ASN:OD1	2.11	0.51
45:PG:215:ARG:HA	45:PG:215:ARG:CZ	2.40	0.51
45:PI:265:ILE:HG12	45:PI:432:TYR:HE1	1.75	0.51
46:PL:345:ILE:O	46:PL:345:ILE:HG13	2.11	0.51
46:QB:161:ASP:O	46:QB:251:ARG:NH2	2.43	0.51
46:QB:312:THR:HG22	46:QB:370:ASN:HB3	1.93	0.51
45:QC:329:ASN:HA	45:QC:332:ILE:HG12	1.92	0.51
46:QD:257:LEU:HD11	46:QD:314:SER:HB2	1.93	0.51
45:QE:183:GLU:N	45:QE:184:PRO:HD2	2.26	0.51
46:QH:12:CYS:O	46:QH:16:ILE:HG12	2.10	0.51
46:QH:258:ILE:HG13	45:QI:407:TRP:HE1	1.76	0.51
46:QL:235:GLY:HA3	46:QL:366:THR:HG21	1.92	0.51
45:RC:141:VAL:HG11	45:RC:172:TYR:HA	1.93	0.51
46:RF:114:ASP:OD1	46:RF:115:SER:N	2.42	0.51
46:RJ:293:MET:HE3	46:RJ:365:VAL:HG12	1.93	0.51
45:RK:254:GLU:OE1	45:RK:257:THR:OG1	2.29	0.51
45:RK:269:LEU:HD12	45:RK:303:ALA:HB3	1.93	0.51
45:RM:207:GLU:O	45:RM:210:TYR:HB3	2.11	0.51
45:RM:387:VAL:HG12	45:RM:390:ARG:HH22	1.75	0.51
46:SD:344:TRP:H	46:SD:344:TRP:CD1	2.27	0.51
46:SJ:86:ARG:HH12	46:TJ:281:TYR:HD2	1.58	0.51
46:SJ:181:GLU:HG2	46:SJ:182:PRO:HD3	1.93	0.51
46:SL:252:LYS:HD2	45:SM:101:ASN:ND2	2.26	0.51
46:TB:357:PRO:HB2	46:TB:361:LEU:O	2.11	0.51
46:TJ:139:LEU:HD13	46:TJ:168:SER:HB3	1.91	0.51
45:TK:183:GLU:N	45:TK:184:PRO:HD2	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TN:86:ARG:HG3	46:TN:88:ASP:H	1.76	0.51
46:UB:290:THR:HA	46:UB:293:MET:HE2	1.93	0.51
45:UI:316:SER:HA	45:UI:352:LYS:HB2	1.92	0.51
46:UJ:178:THR:HG22	46:UJ:180:VAL:H	1.76	0.51
45:VA:221:ARG:NH2	46:VB:321:MET:SD	2.84	0.51
45:VI:56:THR:HG23	45:VI:58:ALA:H	1.75	0.51
46:VJ:409:THR:O	46:VJ:412:GLU:HG2	2.10	0.51
45:VK:336:LYS:HD3	45:VK:351:PHE:CZ	2.46	0.51
46:VL:146:GLY:O	46:VL:149:THR:HG22	2.11	0.51
45:WA:209:ILE:HG12	45:WA:302:MET:HG3	1.91	0.51
45:WA:211:ASP:O	45:WA:215:ARG:HG2	2.11	0.51
46:WB:69:GLU:OE2	46:WB:96:GLY:N	2.44	0.51
45:WG:258:ASN:ND2	45:WG:352:LYS:HE3	2.26	0.51
46:WH:6:HIS:O	46:WH:63:ALA:HA	2.10	0.51
46:WL:186:THR:HA	46:WL:189:VAL:HG12	1.91	0.51
46:WN:251:ARG:O	46:WN:255:VAL:HG23	2.11	0.51
2:0B:121:GLN:HG2	22:2M:40:LYS:HZ2	1.76	0.51
2:0B:135:GLN:HE22	9:1N:47:LYS:HE2	1.76	0.51
6:0F:114:ARG:HE	6:0F:117:LEU:HD21	1.76	0.51
7:0G:12:LYS:HG3	7:0G:13:TYR:N	2.26	0.51
8:0H:385:GLU:HB2	8:0H:388:LYS:NZ	2.25	0.51
13:0U:503:SER:OG	13:0U:518:GLU:OE2	2.20	0.51
16:1B:8:GLU:O	16:1B:11:GLN:HG3	2.11	0.51
3:1C:122:ARG:HH12	45:DM:225:THR:HB	1.76	0.51
8:1H:337:ASP:O	8:1H:340:LEU:HG	2.11	0.51
19:1J:353:TYR:CD1	19:1J:356:MET:HE1	2.46	0.51
21:1L:928:PHE:O	21:1L:932:VAL:HG23	2.11	0.51
9:1N:331:GLU:HA	9:1N:334:LYS:HG2	1.93	0.51
25:1R:180:PHE:HB2	25:1R:185:PHE:HE2	1.75	0.51
25:1R:265:SER:C	25:1R:267:ILE:H	2.17	0.51
11:1S:262:TYR:HB3	11:1S:283:LEU:HD13	1.92	0.51
13:1U:292:HIS:HB3	13:1U:304:TRP:NE1	2.26	0.51
26:1W:128:ARG:HD2	34:4R:21:LEU:HD11	1.92	0.51
15:1X:125:GLU:O	15:1X:129:ILE:HG12	2.10	0.51
16:2B:180:GLU:C	26:2W:272:LYS:HZ3	2.18	0.51
13:2U:600:PHE:HB3	13:2U:602:TRP:NE1	2.25	0.51
21:3L:47:ARG:HB3	21:3L:51:TYR:CZ	2.46	0.51
21:3L:190:PHE:O	21:3L:193:LEU:HG	2.11	0.51
23:3O:394:GLU:OE2	46:UH:362:LYS:NZ	2.31	0.51
25:3R:265:SER:C	25:3R:267:ILE:H	2.19	0.51
25:3R:454:ARG:HH21	46:FL:218:THR:CB	2.20	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:3T:209:PHE:O	12:3T:212:THR:OG1	2.27	0.51
13:3U:419:ARG:HH12	13:3U:442:LYS:HD2	1.76	0.51
35:4S:147:LYS:HE3	46:AD:413:SER:HB2	1.92	0.51
35:5S:68:TYR:O	35:5S:71:ARG:HB3	2.11	0.51
34:6R:87:LYS:HE3	34:6R:88:TYR:CZ	2.46	0.51
34:7R:114:ARG:NH2	34:7R:131:GLU:OE2	2.44	0.51
46:AF:345:ILE:O	46:AF:345:ILE:HG13	2.11	0.51
46:AH:28:HIS:C	46:AH:43:GLN:HE21	2.19	0.51
46:AH:91:VAL:HG21	46:AH:116:VAL:HB	1.93	0.51
46:AN:47:ILE:HG22	46:AN:51:TYR:HB2	1.93	0.51
45:BC:192:HIS:CD2	45:BC:421:ALA:HA	2.45	0.51
46:BD:64:ILE:HA	46:BD:89:ASN:HB3	1.93	0.51
45:BE:134:GLY:HA2	45:BE:164:LYS:HE2	1.93	0.51
45:BI:88:HIS:HB3	45:BI:91:GLN:HG3	1.92	0.51
45:BI:167:LEU:HG	45:BI:200:VAL:HB	1.93	0.51
45:CA:108:TYR:HA	45:CA:112:LYS:HE3	1.93	0.51
46:CB:217:LEU:HB3	46:CB:276:ARG:NH1	2.25	0.51
46:CN:65:LEU:HB2	46:CN:90:PHE:HD1	1.75	0.51
46:DD:87:PRO:HA	46:DD:90:PHE:CD2	2.46	0.51
45:DE:101:ASN:HA	45:DE:144:GLY:H	1.76	0.51
45:DE:175:PRO:HG3	45:DE:390:ARG:NH2	2.25	0.51
46:DF:375:GLN:HG3	46:DF:419:VAL:HG13	1.93	0.51
45:DG:231:ILE:O	45:DG:235:ILE:HG12	2.11	0.51
45:DM:183:GLU:N	45:DM:184:PRO:HD2	2.26	0.51
45:EC:238:LEU:HD22	45:EC:318:MET:HE1	1.92	0.51
46:EF:271:ALA:HB3	46:EF:365:VAL:HB	1.92	0.51
46:EH:5:VAL:HG12	46:EH:62:ARG:HD3	1.93	0.51
45:EM:239:THR:HG23	45:EM:243:ARG:HE	1.75	0.51
45:FC:288:VAL:HG11	45:FC:327:ASP:HB3	1.93	0.51
46:FD:191:GLN:O	46:FD:195:ASN:ND2	2.42	0.51
45:FI:274:PRO:HG3	45:FI:286:LEU:HD23	1.93	0.51
45:GA:90:GLU:HG2	45:GA:121:ARG:NH2	2.26	0.51
45:GC:242:LEU:HD11	45:GC:252:ILE:HG23	1.93	0.51
45:GE:205:ASP:OD1	45:GE:303:ALA:HA	2.11	0.51
45:GG:183:GLU:N	45:GG:184:PRO:HD2	2.26	0.51
45:GG:226:ASN:O	45:GG:230:LEU:HG	2.10	0.51
45:GI:33:ASP:OD1	45:GI:33:ASP:N	2.43	0.51
45:GI:257:THR:HA	46:GL:397:TRP:CH2	2.45	0.51
46:GL:167:PHE:CE2	46:GL:233:MET:HG2	2.45	0.51
46:GN:66:MET:HE2	46:GN:147:MET:HB3	1.93	0.51
45:HC:265:ILE:HG22	45:HC:380:ASN:HD21	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HC:407:TRP:CH2	46:HD:258:ILE:HG13	2.46	0.51
46:HD:257:LEU:HB3	46:HD:266:PHE:CZ	2.46	0.51
45:HE:231:ILE:O	45:HE:235:ILE:HG12	2.11	0.51
46:HN:72:THR:O	46:HN:75:SER:OG	2.29	0.51
45:IA:339:ARG:NE	45:IA:339:ARG:HA	2.25	0.51
46:IB:6:HIS:HB2	46:IB:134:GLN:HE21	1.76	0.51
46:IB:238:CYS:SG	46:IB:239:CYS:N	2.84	0.51
45:II:2:ARG:NH1	45:II:242:LEU:O	2.40	0.51
46:IJ:299:MET:HG3	46:IJ:305:PRO:HG3	1.93	0.51
45:IK:71:GLU:OE1	45:IK:73:THR:HG22	2.11	0.51
45:IK:276:ILE:HD11	45:IK:280:LYS:NZ	2.26	0.51
46:IL:36:TYR:CZ	46:IL:44:LEU:HG	2.46	0.51
46:IN:145:SER:OG	46:IN:188:SER:HB3	2.10	0.51
46:IN:403:MET:HA	46:IN:403:MET:HE3	1.93	0.51
45:JC:17:GLY:HA2	45:JC:20:CYS:SG	2.51	0.51
45:JC:205:ASP:OD1	45:JC:303:ALA:HA	2.11	0.51
46:JF:375:GLN:O	46:JF:379:LYS:HG3	2.10	0.51
46:JH:380:ARG:O	46:JH:383:GLU:HG3	2.10	0.51
45:JK:286:LEU:HD13	45:JK:371:VAL:HG23	1.92	0.51
45:JK:426:ALA:HB1	45:JK:430:LYS:NZ	2.26	0.51
46:JN:186:THR:HA	46:JN:189:VAL:HG12	1.91	0.51
45:KC:98:ASP:OD2	45:KC:99:ALA:N	2.43	0.51
45:KC:325:PRO:HB2	46:KF:208:TYR:OH	2.10	0.51
45:KG:88:HIS:ND1	45:KG:90:GLU:HG2	2.26	0.51
46:KH:12:CYS:O	46:KH:16:ILE:HG12	2.11	0.51
45:LA:119:LEU:HD11	45:LA:156:ARG:HG2	1.93	0.51
46:LB:67:ASP:OD1	46:LB:68:LEU:N	2.43	0.51
45:LC:272:TYR:HD2	45:LC:275:ILE:HD11	1.76	0.51
46:LH:67:ASP:OD2	46:LH:72:THR:OG1	2.27	0.51
46:LL:1:MET:HE2	46:LL:1:MET:HA	1.91	0.51
45:LM:17:GLY:HA2	45:LM:20:CYS:SG	2.51	0.51
45:LM:183:GLU:N	45:LM:184:PRO:HD2	2.26	0.51
46:MD:304:ASP:OD1	46:MD:306:ARG:NH2	2.44	0.51
45:ME:118:CYS:O	45:ME:122:ILE:HG12	2.10	0.51
46:MF:27:GLU:OE1	46:MF:241:ARG:NH1	2.31	0.51
46:MJ:68:LEU:HD23	46:MJ:143:THR:OG1	2.10	0.51
45:NA:214:ARG:NH1	45:NA:220:GLU:HA	2.26	0.51
46:NB:377:MET:HG3	46:NB:380:ARG:HH22	1.75	0.51
45:NC:88:HIS:H	45:NC:91:GLN:NE2	2.08	0.51
45:NC:254:GLU:OE1	46:NF:99:ASN:ND2	2.44	0.51
46:ND:190:HIS:CD2	46:ND:411:ALA:HA	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:NF:313:ALA:HB1	46:NF:367:PHE:HE1	1.76	0.51
45:NI:271:SER:HA	45:NI:302:MET:HG3	1.93	0.51
46:NJ:73:MET:SD	46:NJ:90:PHE:HB3	2.51	0.51
46:NL:321:MET:HE3	46:NL:363:MET:HE2	1.91	0.51
45:OA:119:LEU:HA	45:OA:122:ILE:HG22	1.93	0.51
45:OC:10:GLY:O	45:OC:14:ILE:HG12	2.11	0.51
46:OF:58:ARG:HH22	46:OF:84:LEU:HD23	1.75	0.51
46:OF:341:PHE:CE1	46:OF:349:ILE:HD11	2.46	0.51
46:OJ:316:LEU:HD13	46:OJ:352:SER:HB3	1.91	0.51
45:PA:171:ILE:HG23	45:PA:204:LEU:O	2.11	0.51
46:PB:52:ASN:OD1	46:PB:62:ARG:NH2	2.44	0.51
46:PB:167:PHE:CE2	46:PB:233:MET:HG2	2.45	0.51
45:PC:328:VAL:HG11	45:PC:353:VAL:HG21	1.93	0.51
46:PF:377:MET:HG3	46:PF:380:ARG:HH21	1.76	0.51
46:PH:389:PHE:HZ	46:PH:405:GLU:HG2	1.75	0.51
45:PK:326:LYS:HD3	46:PN:212:PHE:CZ	2.44	0.51
46:PL:178:THR:HB	46:PL:181:GLU:HG2	1.93	0.51
45:PM:102:ASN:HB3	45:PM:105:ARG:HB2	1.93	0.51
46:PN:86:ARG:NH2	46:QL:277:GLY:O	2.41	0.51
46:QD:86:ARG:HA	46:RD:281:TYR:CE1	2.46	0.51
46:QD:221:THR:HG23	46:QD:224:ASP:H	1.75	0.51
45:QG:136:LEU:HD23	45:QG:167:LEU:HB2	1.91	0.51
46:QJ:312:THR:HG22	46:QJ:370:ASN:HB3	1.92	0.51
46:QL:28:HIS:HA	46:QL:43:GLN:CD	2.36	0.51
46:QL:52:ASN:OD1	46:QL:62:ARG:NH2	2.44	0.51
46:QL:344:TRP:CZ3	45:QM:401:LYS:HD3	2.46	0.51
46:RB:5:VAL:HG11	46:RB:123:GLU:HG3	1.92	0.51
46:RB:299:MET:N	46:RB:299:MET:HE2	2.25	0.51
45:RE:67:PHE:HB2	45:RE:92:LEU:HD13	1.92	0.51
45:RI:188:ILE:HG23	45:RI:425:LEU:HD11	1.92	0.51
45:RI:252:ILE:HA	45:RI:255:PHE:CE2	2.46	0.51
46:RL:182:PRO:HB2	46:RL:388:MET:HE2	1.93	0.51
46:SF:269:GLY:HA3	46:SF:293:MET:HE1	1.91	0.51
46:TB:150:LEU:HG	46:TB:154:LYS:NZ	2.25	0.51
45:TI:172:TYR:HE2	45:TI:203:MET:HE1	1.76	0.51
45:TM:141:VAL:HG11	45:TM:172:TYR:HD1	1.75	0.51
45:TM:224:TYR:O	45:TM:228:ASN:ND2	2.44	0.51
45:UC:175:PRO:HA	45:UC:390:ARG:CZ	2.41	0.51
46:UD:107:THR:HG1	46:UD:108:GLU:CD	2.19	0.51
46:UD:322:SER:H	45:UE:221:ARG:HH12	1.57	0.51
45:UE:151:SER:O	45:UE:155:GLU:OE1	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UG:242:LEU:HD11	45:UG:252:ILE:HG23	1.93	0.51
46:UJ:186:THR:HA	46:UJ:189:VAL:HG12	1.92	0.51
45:UM:395:PHE:HZ	45:UM:418:PHE:HB3	1.76	0.51
45:VA:121:ARG:HE	45:VA:124:LYS:NZ	2.08	0.51
45:VA:426:ALA:O	45:VA:429:GLU:HG2	2.11	0.51
45:VC:324:VAL:HG11	45:VC:326:LYS:NZ	2.26	0.51
45:VC:407:TRP:HE1	46:VD:258:ILE:HG13	1.75	0.51
45:VK:174:SER:HB3	45:VK:207:GLU:HG3	1.93	0.51
45:VK:387:VAL:HA	45:VK:390:ARG:HG2	1.92	0.51
46:VL:86:ARG:HB3	46:VL:89:ASN:OD1	2.11	0.51
46:VN:117:LEU:HA	46:VN:120:VAL:HG12	1.93	0.51
46:VN:150:LEU:HG	46:VN:154:LYS:NZ	2.25	0.51
45:WA:414:GLU:CD	45:WA:416:GLY:H	2.19	0.51
46:WB:375:GLN:HB3	46:WB:379:LYS:HZ2	1.76	0.51
45:WC:56:THR:HG23	45:WC:58:ALA:H	1.76	0.51
45:WC:203:MET:HE3	45:WC:205:ASP:HB3	1.92	0.51
46:WD:164:MET:HG2	46:WD:196:ALA:HA	1.93	0.51
45:WE:346:TRP:CD1	46:WH:391:ARG:HG3	2.45	0.51
46:WF:239:CYS:HB2	46:WF:316:LEU:HD11	1.92	0.51
45:WG:22:GLU:OE2	45:WG:83:TYR:HE2	1.94	0.51
46:WH:183:TYR:CE2	46:WH:388:MET:HE2	2.45	0.51
46:WH:199:CYS:C	46:WH:200:MET:HE2	2.36	0.51
46:WH:282:ARG:NH2	46:WH:292:GLN:OE1	2.29	0.51
45:WK:41:THR:HG22	45:WK:42:ILE:N	2.24	0.51
45:WK:99:ALA:HA	45:WK:105:ARG:HD2	1.93	0.51
45:WK:356:ASN:OD1	45:WK:357:TYR:N	2.44	0.51
46:WL:67:ASP:O	46:WL:92:PHE:HA	2.10	0.51
45:CE:254:GLU:OE2	45:CE:258:ASN:ND2	2.44	0.51
4:0D:39:PRO:HD2	45:DC:79:ARG:NH2	2.26	0.51
6:0F:109:ASP:HA	6:0F:112:VAL:HG12	1.93	0.51
9:0N:112:VAL:HG12	9:0N:145:LEU:HG	1.92	0.51
10:0Q:76:LEU:HD23	10:0Q:77:VAL:N	2.26	0.51
12:0T:209:PHE:O	12:0T:212:THR:OG1	2.25	0.51
13:0U:371:MET:HG3	13:0U:413:THR:HG21	1.93	0.51
3:1C:84:THR:O	3:1C:88:GLU:N	2.44	0.51
18:1I:91:SER:O	18:1I:95:LYS:NZ	2.44	0.51
20:1K:156:LEU:O	20:1K:160:HIS:ND1	2.31	0.51
9:1N:437:THR:H	9:1N:440:GLU:CD	2.18	0.51
29:2G:15:GLN:NE2	29:2G:16:GLN:HG2	2.26	0.51
20:2K:447:GLU:O	20:2K:451:ILE:HG12	2.11	0.51
22:2M:135:TYR:HB3	22:2M:138:HIS:HB2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:2R:29:LYS:HZ1	45:MG:47:ASP:N	2.09	0.51
12:2T:77:ASP:HB3	12:2T:103:VAL:HG22	1.92	0.51
32:3D:164:LEU:HG	32:3D:197:ARG:HB2	1.93	0.51
5:3E:29:ARG:HH22	5:3E:153:ASN:ND2	2.08	0.51
30:3H:174:PHE:CD1	30:3H:174:PHE:CB	2.81	0.51
23:3O:371:GLU:HA	23:3O:374:ARG:CD	2.41	0.51
11:3S:295:GLU:OE1	11:3S:313:TYR:OH	2.14	0.51
27:4C:232:PHE:CE1	46:JN:53:GLU:HB3	2.45	0.51
15:4X:31:ASP:OD2	46:LL:218:THR:OG1	2.28	0.51
36:5C:54:ARG:HH11	36:5C:56:ILE:HD13	1.76	0.51
34:5R:231:TYR:CZ	46:CJ:216:LYS:HG3	2.45	0.51
34:5R:531:THR:HG22	34:5R:584:GLU:OE1	2.11	0.51
35:5S:125:GLU:HB3	35:5S:164:LYS:NZ	2.26	0.51
34:6R:386:PRO:HG2	46:EN:276:ARG:HG2	1.92	0.51
45:AA:205:ASP:OD2	45:AA:303:ALA:HA	2.10	0.51
45:AC:288:VAL:HA	45:AC:291:ILE:HG12	1.92	0.51
46:AH:165:GLU:CD	46:AH:200:MET:HE1	2.36	0.51
45:AM:292:THR:HG21	45:AM:331:SER:HB3	1.93	0.51
46:BH:148:GLY:O	46:BH:152:ILE:HG12	2.10	0.51
45:BI:115:VAL:HG11	45:BI:152:LEU:HD23	1.93	0.51
46:BN:148:GLY:O	46:BN:152:ILE:HG12	2.11	0.51
45:CA:346:TRP:CD1	46:CB:391:ARG:HG3	2.46	0.51
45:CG:231:ILE:O	45:CG:235:ILE:HG12	2.11	0.51
46:CH:321:MET:HB2	45:CI:221:ARG:NH2	2.26	0.51
45:CK:332:ILE:O	45:CK:336:LYS:HG2	2.11	0.51
46:DD:68:LEU:HD13	46:DD:143:THR:OG1	2.11	0.51
46:DF:68:LEU:HD22	46:DF:97:ALA:HB2	1.93	0.51
45:DI:76:ASP:HA	45:DI:79:ARG:HG2	1.93	0.51
45:DI:239:THR:HG23	45:DI:243:ARG:HE	1.77	0.51
45:DI:260:VAL:H	46:DJ:397:TRP:HZ2	1.58	0.51
46:DJ:321:MET:HE3	45:DK:221:ARG:NH2	2.26	0.51
45:DK:136:LEU:HD23	45:DK:167:LEU:HB2	1.92	0.51
45:DM:340:THR:HG23	45:DM:341:ILE:HG13	1.92	0.51
46:DN:66:MET:HG3	46:DN:147:MET:HE3	1.92	0.51
45:EC:147:SER:HB2	45:EC:190:SER:OG	2.11	0.51
45:EC:322:ASP:OD1	45:EC:373:ARG:NH1	2.42	0.51
46:EF:324:LYS:O	46:EF:325:GLU:C	2.54	0.51
46:EN:12:CYS:HA	46:EN:15:GLN:NE2	2.25	0.51
46:FB:321:MET:HB3	46:FB:363:MET:HE2	1.93	0.51
46:FF:116:VAL:HA	46:FF:119:VAL:HG12	1.93	0.51
45:FG:90:GLU:OE1	45:FG:121:ARG:NH2	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FI:55:GLU:HG3	45:FI:57:GLY:H	1.76	0.51
45:FK:28:HIS:HD2	45:FK:49:PHE:HB3	1.76	0.51
45:FK:147:SER:HB2	45:FK:190:SER:OG	2.11	0.51
45:FK:286:LEU:O	45:FK:373:ARG:NH2	2.44	0.51
45:GA:205:ASP:OD1	45:GA:206:ASN:N	2.44	0.51
46:GB:67:ASP:O	46:GB:92:PHE:HA	2.10	0.51
46:GD:19:LYS:HA	46:GD:22:GLU:OE2	2.11	0.51
46:GH:6:HIS:O	46:GH:63:ALA:HA	2.11	0.51
45:GI:141:VAL:HG11	45:GI:172:TYR:CD1	2.46	0.51
46:GL:99:ASN:HA	46:GL:142:GLY:H	1.75	0.51
45:HA:352:LYS:NZ	46:HD:178:THR:HA	2.26	0.51
45:HC:3:GLU:OE2	45:HC:129:CYS:HB3	2.11	0.51
45:HC:407:TRP:CZ3	46:HD:255:VAL:HA	2.46	0.51
45:HE:265:ILE:HG22	45:HE:380:ASN:HD21	1.77	0.51
46:HF:12:CYS:O	46:HF:16:ILE:HG12	2.11	0.51
46:HF:282:ARG:NE	46:HF:288:GLU:OE1	2.31	0.51
46:HH:397:TRP:O	46:HH:400:GLY:N	2.44	0.51
45:IE:326:LYS:HE3	46:IH:218:THR:O	2.11	0.51
46:JJ:105:HIS:CE1	46:JJ:150:LEU:HD13	2.46	0.51
46:JL:260:PHE:HB2	46:JL:263:LEU:HD13	1.93	0.51
46:JN:287:PRO:HA	46:JN:329:GLN:HE21	1.75	0.51
46:KB:262:ARG:NH1	46:KB:421:GLU:OE1	2.43	0.51
45:KC:17:GLY:HA2	45:KC:20:CYS:SG	2.51	0.51
45:KC:317:MET:SD	45:KC:377:MET:HG2	2.51	0.51
45:KG:324:VAL:HG13	45:KG:327:ASP:H	1.76	0.51
45:KK:75:ILE:O	45:KK:79:ARG:HG3	2.11	0.51
45:KK:349:THR:HG1	46:KN:176:SER:HG	1.50	0.51
45:KM:395:PHE:HZ	45:KM:418:PHE:HB3	1.75	0.51
45:LC:75:ILE:HG21	45:LC:94:SER:HB2	1.93	0.51
45:LE:150:GLY:O	45:LE:154:LEU:HG	2.10	0.51
45:LE:230:LEU:O	45:LE:234:VAL:HG23	2.11	0.51
46:LH:294:PHE:CD2	46:LH:333:VAL:HG21	2.43	0.51
46:LJ:19:LYS:HZ1	46:LJ:227:HIS:HB2	1.76	0.51
46:LL:410:GLU:OE2	46:LL:414:ASN:ND2	2.44	0.51
45:LM:175:PRO:HB2	45:LM:176:GLN:OE1	2.11	0.51
45:ME:208:ALA:O	45:ME:212:ILE:HG12	2.11	0.51
45:MI:328:VAL:HG11	45:MI:353:VAL:HG21	1.92	0.51
46:MJ:22:GLU:HG2	46:MJ:81:PHE:HD2	1.76	0.51
46:NB:31:ASP:OD1	46:NB:35:THR:N	2.40	0.51
46:NB:97:ALA:HB3	46:NB:143:THR:HB	1.92	0.51
46:NB:272:PRO:HD2	46:NB:361:LEU:HD21	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NC:414:GLU:OE2	45:NC:417:GLU:N	2.44	0.51
46:ND:383:GLU:HA	46:ND:386:THR:HG22	1.92	0.51
45:NE:81:GLY:O	45:NE:84:ARG:HG3	2.11	0.51
45:NE:141:VAL:HG12	45:NE:171:ILE:O	2.11	0.51
45:NG:183:GLU:N	45:NG:184:PRO:HD2	2.26	0.51
45:NG:414:GLU:OE1	45:NG:416:GLY:N	2.34	0.51
46:NL:190:HIS:CD2	46:NL:414:ASN:HD22	2.29	0.51
46:NN:316:LEU:HD13	46:NN:352:SER:OG	2.11	0.51
46:OB:133:PHE:HB2	46:OB:164:MET:SD	2.51	0.51
45:OE:350:GLY:HA2	46:OH:179:VAL:HG12	1.91	0.51
46:OH:200:MET:HE3	46:OH:268:ILE:HG21	1.93	0.51
45:OI:177:VAL:HG13	46:OJ:327:ASP:OD1	2.11	0.51
45:OK:89:PRO:HD2	45:PK:280:LYS:HE3	1.93	0.51
46:OL:218:THR:H	46:OL:276:ARG:NH2	2.08	0.51
46:ON:375:GLN:HB2	46:ON:379:LYS:HZ3	1.76	0.51
45:PA:377:MET:HE3	45:PA:378:ILE:H	1.75	0.51
45:PC:210:TYR:CE1	46:PD:324:LYS:HE3	2.46	0.51
46:PD:66:MET:HE1	46:PD:147:MET:SD	2.51	0.51
46:PD:184:ASN:OD1	46:PD:185:ALA:N	2.44	0.51
46:PJ:203:ASP:HB3	46:PJ:205:GLU:OE2	2.11	0.51
46:PL:152:ILE:HG22	46:PL:195:ASN:ND2	2.25	0.51
46:PN:222:TYR:HA	46:PN:225:LEU:HG	1.91	0.51
45:QC:290:GLU:N	45:QC:290:GLU:OE1	2.42	0.51
45:QE:5:ILE:HD12	45:QE:125:LEU:HD21	1.93	0.51
45:QI:68:LEU:HD21	45:QI:118:CYS:HB2	1.92	0.51
45:QI:136:LEU:HD12	45:QI:169:PHE:HE2	1.76	0.51
46:QJ:62:ARG:HB2	46:QJ:123:GLU:OE2	2.11	0.51
45:QK:239:THR:HG23	45:QK:243:ARG:HE	1.76	0.51
46:QL:282:ARG:NE	46:QL:288:GLU:OE2	2.37	0.51
45:RA:268:MET:HB2	45:RA:379:SER:O	2.11	0.51
45:RA:318:MET:O	45:RA:375:VAL:HA	2.11	0.51
46:RD:52:ASN:OD1	46:RD:62:ARG:NH2	2.43	0.51
45:RE:141:VAL:HG11	45:RE:172:TYR:HA	1.93	0.51
45:RG:352:LYS:HZ1	46:RH:178:THR:HA	1.76	0.51
45:RM:68:LEU:HD13	45:RM:93:ILE:HB	1.92	0.51
46:SB:304:ASP:HB3	46:SB:307:HIS:ND1	2.26	0.51
46:SD:67:ASP:OD1	46:SD:68:LEU:N	2.43	0.51
46:SF:68:LEU:HB3	46:SF:96:GLY:HA2	1.93	0.51
45:SG:278:ALA:HB2	45:SG:369:ALA:HB2	1.93	0.51
45:SK:75:ILE:HG23	45:SK:79:ARG:HH12	1.76	0.51
46:SL:324:LYS:O	46:SL:325:GLU:C	2.54	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SL:407:GLU:HA	46:SL:410:GLU:CD	2.36	0.51
46:TB:254:ALA:O	46:TB:258:ILE:HG22	2.11	0.51
46:TD:148:GLY:O	46:TD:152:ILE:HD12	2.11	0.51
45:TG:28:HIS:CE1	45:TG:49:PHE:HA	2.46	0.51
45:TG:328:VAL:O	45:TG:332:ILE:HG12	2.10	0.51
45:UA:135:PHE:HB2	45:UA:166:LYS:HG2	1.92	0.51
46:UB:27:GLU:OE2	46:UB:241:ARG:NH1	2.29	0.51
46:UD:28:HIS:C	46:UD:43:GLN:HE21	2.19	0.51
45:UE:286:LEU:HD23	45:UE:291:ILE:HD11	1.92	0.51
46:UH:118:ASP:O	46:UH:122:LYS:HG2	2.11	0.51
45:UI:212:ILE:HD11	45:UI:300:ASN:HA	1.93	0.51
46:UL:370:ASN:OD1	46:UL:422:TYR:OH	2.28	0.51
46:UN:183:TYR:HA	46:UN:385:PHE:CE2	2.45	0.51
45:VA:71:GLU:CG	45:VA:98:ASP:HB2	2.41	0.51
45:VA:121:ARG:HE	45:VA:124:LYS:HZ2	1.58	0.51
45:VA:174:SER:HB3	45:VA:207:GLU:CD	2.36	0.51
45:VA:326:LYS:CE	46:VD:220:PRO:HD2	2.40	0.51
45:VC:76:ASP:OD1	45:VC:79:ARG:NH2	2.43	0.51
45:VI:133:GLN:HB3	45:VI:252:ILE:HD11	1.93	0.51
45:WA:31:GLN:HG2	45:WA:33:ASP:H	1.76	0.51
45:WC:288:VAL:HG11	45:WC:327:ASP:HB3	1.91	0.51
46:WD:285:THR:HB	46:WD:287:PRO:HD2	1.92	0.51
46:WF:105:HIS:CE1	46:WF:150:LEU:HD12	2.46	0.51
46:WJ:118:ASP:O	46:WJ:122:LYS:HG3	2.12	0.51
46:WJ:389:PHE:HZ	46:WJ:405:GLU:HG2	1.76	0.51
45:WK:10:GLY:O	45:WK:14:ILE:HG12	2.10	0.51
45:WK:71:GLU:OE2	46:WL:2:ARG:NH2	2.43	0.51
45:WM:24:PHE:O	45:WM:27:GLU:HG2	2.11	0.51
45:WM:288:VAL:HG11	45:WM:327:ASP:HB3	1.93	0.51
45:WM:390:ARG:HH21	45:WM:394:LYS:NZ	2.09	0.51
46:WN:42:LEU:HA	46:WN:45:GLU:HG3	1.93	0.51
46:WN:221:THR:HG23	46:WN:224:ASP:H	1.76	0.51
46:WN:344:TRP:CE3	46:WN:345:ILE:HG23	2.46	0.51
6:0F:152:HIS:HE1	6:0F:154:LEU:HB2	1.75	0.50
9:0N:34:LEU:HA	9:0N:37:LYS:HG2	1.94	0.50
15:0X:18:ILE:O	15:0X:18:ILE:HG13	2.10	0.50
3:1C:107:GLU:O	3:1C:111:ILE:HG23	2.11	0.50
4:1D:23:ARG:NH1	4:1D:25:ASP:OD2	2.44	0.50
8:1H:139:ARG:CZ	45:HI:370:LYS:HG3	2.40	0.50
21:1L:274:LYS:NZ	21:1L:376:ALA:HB1	2.27	0.50
22:1M:178:ASN:HB3	22:1M:181:VAL:HG22	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:1N:482:VAL:HG21	45:II:39:ASP:HB3	1.93	0.50
11:1S:205:LEU:HB3	11:1S:206:PRO:HD3	1.92	0.50
27:2C:287:PHE:O	27:2C:291:VAL:HG22	2.11	0.50
28:2F:45:LYS:HD2	28:2F:46:GLN:N	2.25	0.50
21:2L:760:ASP:HB3	45:BK:221:ARG:HH21	1.75	0.50
23:2O:285:GLU:HA	23:2O:288:LYS:HG3	1.93	0.50
11:2S:150:GLN:HE22	45:WG:164:LYS:HG2	1.75	0.50
11:2S:163:ASP:N	11:2S:163:ASP:OD2	2.45	0.50
12:2T:277:THR:HG1	13:2U:352:ARG:HH22	1.59	0.50
26:2W:200:PRO:HA	26:2W:203:LYS:CG	2.42	0.50
27:3C:99:LEU:HD22	27:3C:175:GLU:HB3	1.93	0.50
31:3I:197:GLN:N	31:3I:197:GLN:OE1	2.44	0.50
23:3O:373:ARG:HH12	45:UI:281:ALA:N	2.08	0.50
23:3O:412:LEU:O	23:3O:415:GLU:HG3	2.11	0.50
25:3R:304:LEU:HD23	25:3R:322:VAL:HG21	1.93	0.50
25:3R:393:GLY:HA3	25:3R:400:PRO:HB3	1.93	0.50
13:3U:95:MET:HB3	13:3U:96:HIS:ND1	2.26	0.50
13:3U:174:THR:OG1	13:3U:183:LYS:HB2	2.11	0.50
13:3U:458:LYS:HE3	13:3U:463:GLN:HG2	1.92	0.50
36:5B:29:GLN:C	36:5B:30:LYS:HD3	2.36	0.50
37:5G:49:ASP:OD1	46:OJ:219:THR:OG1	2.21	0.50
34:6R:13:PRO:HB3	46:LN:228:LEU:HD23	1.93	0.50
34:6R:318:TYR:CE2	46:CN:273:LEU:HA	2.46	0.50
34:7R:80:ARG:HH22	45:MA:38:SER:H	1.58	0.50
34:7R:477:ASN:HA	34:7R:484:PRO:HA	1.92	0.50
44:8R:177:ALA:HA	44:8R:180:TYR:CD2	2.46	0.50
45:AA:326:LYS:HD3	46:AD:220:PRO:HD2	1.93	0.50
45:AC:390:ARG:HG3	45:AC:391:LEU:HD12	1.93	0.50
46:AD:106:TYR:HE2	46:AD:403:MET:SD	2.34	0.50
46:AF:31:ASP:OD1	46:AF:35:THR:N	2.39	0.50
46:AH:12:CYS:O	46:AH:16:ILE:HG12	2.11	0.50
46:AH:165:GLU:OE2	46:AH:198:GLU:HB2	2.11	0.50
45:AI:141:VAL:HG11	45:AI:172:TYR:CD2	2.46	0.50
46:AN:238:CYS:HB2	46:AN:318:ARG:NH1	2.25	0.50
46:AN:294:PHE:HE2	46:AN:333:VAL:HG11	1.76	0.50
45:BA:326:LYS:CD	46:BD:220:PRO:HD2	2.40	0.50
45:BG:205:ASP:OD1	45:BG:303:ALA:HA	2.10	0.50
45:BG:221:ARG:NH1	46:BH:325:GLU:OE2	2.44	0.50
45:BK:98:ASP:OD1	45:BK:99:ALA:N	2.44	0.50
46:BL:148:GLY:O	46:BL:152:ILE:HG12	2.11	0.50
46:BL:371:SER:O	46:BL:422:TYR:OH	2.28	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BM:313:MET:HE2	45:BM:382:THR:HG22	1.93	0.50
46:CF:86:ARG:NH2	46:DF:281:TYR:CD1	2.79	0.50
46:CF:324:LYS:HB2	45:CG:221:ARG:HH11	1.74	0.50
46:CJ:19:LYS:HE2	46:CJ:223:GLY:O	2.12	0.50
46:DF:390:ARG:HD2	46:DF:391:ARG:HG2	1.93	0.50
45:EE:183:GLU:N	45:EE:184:PRO:HD2	2.26	0.50
45:EE:239:THR:HG23	45:EE:243:ARG:HE	1.77	0.50
46:EF:372:THR:HA	46:EF:422:TYR:HE2	1.75	0.50
45:EG:248:LEU:HB2	45:EG:355:ILE:HG12	1.91	0.50
45:EM:183:GLU:N	45:EM:184:PRO:HD2	2.27	0.50
45:FC:183:GLU:N	45:FC:184:PRO:HD2	2.26	0.50
46:FD:1:MET:HA	46:FD:1:MET:HE3	1.92	0.50
46:FH:288:GLU:O	46:FH:291:GLN:HG3	2.12	0.50
46:FJ:256:ASN:ND2	46:FJ:350:LYS:HD2	2.24	0.50
45:GA:221:ARG:NH2	46:GB:321:MET:HB3	2.26	0.50
46:GJ:16:ILE:HD13	46:GJ:226:ASN:OD1	2.11	0.50
46:GJ:310:TYR:CD1	46:GJ:371:SER:HB2	2.47	0.50
46:GN:130:LEU:O	46:GN:162:ARG:NH2	2.43	0.50
45:HA:175:PRO:HG2	45:HA:304:LYS:HD2	1.93	0.50
46:HD:186:THR:HA	46:HD:189:VAL:HG12	1.93	0.50
46:HF:45:GLU:HG3	46:HF:46:ARG:HG2	1.93	0.50
46:HF:51:TYR:HB3	46:HF:59:TYR:HB3	1.93	0.50
46:HF:229:VAL:O	46:HF:233:MET:HG2	2.11	0.50
46:HJ:289:LEU:HD22	46:HJ:363:MET:HE3	1.93	0.50
45:IC:88:HIS:CD2	46:JD:281:TYR:HB3	2.45	0.50
45:IG:280:LYS:HE3	45:IG:283:HIS:HD1	1.77	0.50
45:II:89:PRO:HD3	46:JJ:281:TYR:HD1	1.76	0.50
45:IK:398:MET:HE2	46:IL:345:ILE:HD12	1.92	0.50
45:IM:141:VAL:HG11	45:IM:172:TYR:HD1	1.75	0.50
45:IM:208:ALA:O	45:IM:212:ILE:HG12	2.11	0.50
46:IN:178:THR:HG22	46:IN:180:VAL:H	1.76	0.50
46:JB:404:ASP:N	46:JB:407:GLU:OE1	2.36	0.50
46:JF:175:VAL:HG22	46:JF:205:GLU:HB2	1.93	0.50
46:JH:10:GLY:O	46:JH:14:ASN:ND2	2.43	0.50
46:JH:344:TRP:HB3	46:JH:430:ALA:HB2	1.93	0.50
45:JI:356:ASN:OD1	45:JI:357:TYR:N	2.44	0.50
46:JL:19:LYS:NZ	46:JL:227:HIS:HB2	2.25	0.50
46:KD:294:PHE:CD1	46:KD:333:VAL:HG21	2.46	0.50
45:LE:223:THR:HG22	45:LE:224:TYR:H	1.76	0.50
46:LF:67:ASP:O	46:LF:92:PHE:HA	2.10	0.50
46:LF:95:THR:HG21	46:LF:108:GLU:HG2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LJ:293:MET:SD	46:LJ:367:PHE:HB2	2.51	0.50
45:LM:222:PRO:HD2	46:LN:324:LYS:HD3	1.93	0.50
45:MA:244:PHE:HB2	45:MA:356:ASN:HD21	1.76	0.50
46:MB:309:ARG:HH21	46:MB:342:VAL:HA	1.75	0.50
46:MF:290:THR:HA	46:MF:293:MET:HE2	1.94	0.50
45:NA:152:LEU:O	45:NA:155:GLU:HG3	2.11	0.50
46:ND:403:MET:HB2	46:ND:407:GLU:OE2	2.12	0.50
45:NG:97:GLU:OE1	46:NH:251:ARG:NH2	2.40	0.50
45:NK:136:LEU:HD23	45:NK:167:LEU:HB2	1.92	0.50
46:NL:294:PHE:CD1	46:NL:333:VAL:HG11	2.47	0.50
45:OA:318:MET:O	45:OA:375:VAL:HA	2.11	0.50
45:OC:153:LEU:O	45:OC:157:LEU:HD23	2.12	0.50
45:OE:231:ILE:O	45:OE:235:ILE:HG12	2.11	0.50
46:OF:128:ASP:OD1	46:OF:129:CYS:N	2.42	0.50
45:OI:350:GLY:HA2	46:OL:179:VAL:HG23	1.93	0.50
45:OK:414:GLU:CD	45:OK:416:GLY:H	2.19	0.50
46:ON:6:HIS:HD2	46:ON:134:GLN:NE2	2.04	0.50
46:PN:192:LEU:HD12	46:PN:196:ALA:HB2	1.93	0.50
45:QA:109:THR:HG22	45:QA:110:ILE:HG23	1.92	0.50
45:QC:187:SER:O	45:QC:191:THR:HG23	2.11	0.50
45:QC:265:ILE:HG12	45:QC:432:TYR:HE1	1.76	0.50
46:QF:289:LEU:HD13	46:QF:365:VAL:HG23	1.94	0.50
46:QL:2:ARG:NH2	45:QM:70:LEU:O	2.44	0.50
46:QL:28:HIS:ND1	46:QL:43:GLN:OE1	2.43	0.50
45:RA:108:TYR:HA	45:RA:112:LYS:HE3	1.93	0.50
46:RB:362:LYS:O	46:RB:363:MET:HE2	2.11	0.50
46:RF:214:THR:O	46:RF:216:LYS:NZ	2.43	0.50
46:RH:406:MET:HE3	46:RH:406:MET:HA	1.91	0.50
45:RK:329:ASN:ND2	46:RL:175:VAL:HG23	2.25	0.50
45:SC:248:LEU:HB2	45:SC:355:ILE:HG22	1.92	0.50
46:SH:221:THR:HG23	46:SH:224:ASP:H	1.76	0.50
46:SJ:156:ARG:HH12	46:SJ:197:ASP:CG	2.19	0.50
45:SK:69:ASP:OD1	45:SK:70:LEU:N	2.45	0.50
45:TA:206:ASN:OD1	47:TA:501:GTP:N2	2.41	0.50
46:TB:86:ARG:HA	46:UB:281:TYR:HE1	1.75	0.50
46:TB:164:MET:HE1	46:TB:196:ALA:HA	1.92	0.50
45:TC:183:GLU:N	45:TC:184:PRO:HD2	2.26	0.50
45:TC:244:PHE:HB2	45:TC:356:ASN:HD21	1.76	0.50
45:TK:181:VAL:HG23	45:TK:182:VAL:HG13	1.93	0.50
46:TN:178:THR:HB	46:TN:181:GLU:HG3	1.93	0.50
46:UB:335:ASN:OD1	46:UB:336:LYS:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UD:10:GLY:O	46:UD:14:ASN:ND2	2.43	0.50
45:UI:74:VAL:O	45:UI:77:GLU:HG3	2.11	0.50
46:UJ:67:ASP:OD1	46:UJ:68:LEU:N	2.42	0.50
46:UN:174:LYS:HB3	46:UN:205:GLU:OE2	2.11	0.50
46:VB:290:THR:HA	46:VB:293:MET:HG2	1.93	0.50
46:VD:45:GLU:HG3	46:VD:46:ARG:HG2	1.92	0.50
45:VE:292:THR:HG21	45:VE:331:SER:HB3	1.91	0.50
45:VI:200:VAL:HG13	45:VI:268:MET:SD	2.51	0.50
45:VI:215:ARG:NH2	45:VI:299:ALA:O	2.44	0.50
46:VJ:128:ASP:OD1	46:VJ:129:CYS:N	2.44	0.50
45:VK:353:VAL:HG12	46:VN:177:ASP:HB2	1.93	0.50
45:WC:100:ALA:O	46:WD:255:VAL:HG21	2.10	0.50
46:WD:256:ASN:ND2	46:WD:350:LYS:HE3	2.26	0.50
46:WH:273:LEU:H	46:WH:292:GLN:NE2	2.08	0.50
46:WH:344:TRP:CE3	46:WH:345:ILE:HG23	2.47	0.50
8:0H:358:GLU:HG3	45:HM:370:LYS:HE2	1.93	0.50
11:0S:301:ASP:HA	11:0S:304:ILE:HD12	1.94	0.50
12:0T:267:ALA:HA	12:0T:270:ILE:HG22	1.93	0.50
13:0U:393:SER:OG	13:0U:395:LYS:NZ	2.43	0.50
4:1D:113:GLN:HE21	25:2R:516:GLN:HE21	1.58	0.50
7:1G:138:THR:O	7:1G:140:PHE:N	2.39	0.50
20:1K:245:TRP:HH2	46:GB:279:GLN:HG2	1.76	0.50
21:1L:66:PHE:CE2	21:1L:70:LEU:HD11	2.46	0.50
9:1N:179:ILE:HG13	9:1N:213:PRO:HG3	1.92	0.50
9:1N:429:PRO:HG3	9:1N:483:VAL:HG22	1.94	0.50
24:1P:307:LYS:HD3	24:1P:310:LYS:NZ	2.26	0.50
10:1Q:6:PHE:HD1	45:WC:117:LEU:HD23	1.77	0.50
12:1T:3:LEU:HD11	12:1T:45:PHE:HE1	1.76	0.50
13:1U:81:GLN:HE21	13:1U:100:LEU:HA	1.75	0.50
20:2K:366:GLU:HB2	20:2K:370:LYS:HZ3	1.76	0.50
21:2L:524:ARG:HG2	21:2L:592:PHE:HZ	1.75	0.50
21:2L:579:VAL:O	21:2L:579:VAL:HG12	2.11	0.50
21:2L:608:ASN:N	21:2L:608:ASN:HD22	2.09	0.50
10:2Q:81:LYS:HD3	10:2Q:161:ARG:HD3	1.93	0.50
16:3B:25:ASP:OD2	16:3B:26:LEU:N	2.44	0.50
16:3B:242:ALA:O	16:3B:243:GLU:HG3	2.11	0.50
5:3E:29:ARG:HG2	5:3E:33:GLN:OE1	2.11	0.50
11:3S:17:LYS:HA	11:3S:20:ASN:HD21	1.76	0.50
13:3U:248:PRO:HD3	13:3U:290:TYR:CD1	2.46	0.50
27:4C:34:ASN:HA	27:4C:37:ARG:NE	2.26	0.50
37:5F:46:LEU:HA	37:5F:48:ARG:HH12	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5G:108:LYS:O	37:5G:110:ARG:NH1	2.44	0.50
40:6G:181:GLY:O	40:6G:183:GLY:N	2.44	0.50
10:6Q:81:LYS:HD2	10:6Q:161:ARG:HD2	1.94	0.50
45:AC:183:GLU:N	45:AC:184:PRO:HD2	2.26	0.50
46:AD:238:CYS:SG	46:AD:239:CYS:N	2.84	0.50
45:AE:396:ASP:HB3	45:AE:422:ARG:HH12	1.76	0.50
46:AF:248:SER:HA	46:AF:252:LYS:HD2	1.93	0.50
45:AG:69:ASP:OD1	45:AG:70:LEU:N	2.44	0.50
45:AM:180:ALA:HA	46:AN:350:LYS:HE2	1.93	0.50
46:BD:390:ARG:O	46:BD:392:LYS:NZ	2.45	0.50
45:BK:3:GLU:OE2	45:BK:131:GLY:N	2.44	0.50
45:CG:17:GLY:HA2	45:CG:20:CYS:SG	2.50	0.50
45:CG:205:ASP:OD2	45:CG:303:ALA:HA	2.11	0.50
45:CG:208:ALA:O	45:CG:212:ILE:HG12	2.10	0.50
46:CH:7:ILE:HG23	46:CH:135:ILE:HD13	1.93	0.50
45:CI:205:ASP:OD1	45:CI:303:ALA:HA	2.11	0.50
45:CM:175:PRO:HG3	45:CM:390:ARG:NH1	2.26	0.50
46:CN:318:ARG:HD3	46:CN:358:PRO:HD3	1.93	0.50
45:DE:183:GLU:N	45:DE:184:PRO:HD2	2.26	0.50
46:DF:73:MET:SD	46:DF:73:MET:N	2.84	0.50
46:DF:200:MET:HG2	46:DF:266:PHE:HB2	1.92	0.50
45:DG:18:ASN:HD22	45:DG:18:ASN:H	1.57	0.50
46:DH:1:MET:HE2	45:DI:96:LYS:HE2	1.93	0.50
46:DJ:31:ASP:OD1	46:DJ:35:THR:N	2.42	0.50
46:DJ:175:VAL:O	46:DJ:175:VAL:HG13	2.11	0.50
46:DJ:286:VAL:HB	46:DJ:325:GLU:OE1	2.12	0.50
46:DL:8:GLN:OE1	46:DL:17:GLY:HA3	2.11	0.50
45:DM:68:LEU:HD21	45:DM:118:CYS:SG	2.51	0.50
45:DM:89:PRO:HG2	45:EM:280:LYS:HB3	1.93	0.50
45:EC:259:LEU:HB3	45:EC:268:MET:HE1	1.93	0.50
45:EC:296:PHE:CE2	45:EC:335:ILE:HG13	2.45	0.50
45:EG:224:TYR:HA	45:EG:227:LEU:HD13	1.93	0.50
45:EI:209:ILE:HD12	45:EI:227:LEU:HB3	1.93	0.50
46:EJ:19:LYS:O	46:EJ:22:GLU:HG3	2.10	0.50
45:EK:384:ILE:O	45:EK:387:VAL:HG22	2.11	0.50
46:FB:20:PHE:HB2	46:FB:233:MET:HE3	1.92	0.50
45:FE:19:ALA:HA	45:FE:22:GLU:OE1	2.12	0.50
45:FE:288:VAL:HG11	45:FE:327:ASP:HB3	1.93	0.50
46:FF:377:MET:HE3	46:FF:377:MET:HA	1.93	0.50
46:FH:117:LEU:HG	46:FH:121:ARG:HH12	1.76	0.50
45:FK:208:ALA:O	45:FK:212:ILE:HG12	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FL:69:GLU:CD	46:FL:71:GLY:H	2.19	0.50
46:FL:202:ILE:HD11	46:FL:268:ILE:HD11	1.92	0.50
46:FL:381:VAL:HG23	46:FL:415:MET:HE1	1.93	0.50
45:GA:419:SER:O	45:GA:422:ARG:HD3	2.10	0.50
46:HB:257:LEU:HD21	46:HB:368:VAL:HG23	1.92	0.50
46:HD:16:ILE:HD13	46:HD:226:ASN:OD1	2.10	0.50
46:HH:190:HIS:CD2	46:HH:411:ALA:HA	2.47	0.50
46:HH:290:THR:HA	46:HH:293:MET:HE2	1.93	0.50
45:HM:141:VAL:HG11	45:HM:172:TYR:CD1	2.46	0.50
45:IA:408:TYR:O	45:IA:413:MET:HB3	2.11	0.50
45:JC:224:TYR:HD1	45:JC:227:LEU:HD12	1.76	0.50
45:JC:372:MET:HE1	45:JC:373:ARG:NH1	2.26	0.50
45:JE:101:ASN:OD1	46:JF:252:LYS:NZ	2.41	0.50
45:JE:259:LEU:HD21	45:JE:316:SER:HB3	1.94	0.50
46:JF:19:LYS:NZ	46:JF:223:GLY:O	2.44	0.50
46:JJ:224:ASP:OD1	46:JJ:225:LEU:N	2.44	0.50
45:JM:174:SER:HB2	45:JM:177:VAL:O	2.11	0.50
45:JM:184:PRO:O	45:JM:188:ILE:HG12	2.11	0.50
45:KA:338:LYS:NZ	45:KA:339:ARG:HG3	2.26	0.50
46:KD:116:VAL:HA	46:KD:119:VAL:HG12	1.93	0.50
46:KL:289:LEU:HD13	46:KL:365:VAL:HG23	1.94	0.50
45:LG:245:ASP:OD1	45:LG:245:ASP:N	2.43	0.50
45:LG:290:GLU:N	45:LG:290:GLU:OE1	2.45	0.50
46:LH:190:HIS:CD2	46:LH:411:ALA:HA	2.46	0.50
45:LK:434:GLU:O	45:LK:437:ILE:HG12	2.11	0.50
45:MA:224:TYR:HE2	46:MB:246:LEU:HD11	1.76	0.50
46:MB:326:VAL:O	46:MB:330:MET:HG2	2.11	0.50
45:MC:210:TYR:HB3	46:MD:324:LYS:NZ	2.25	0.50
45:MI:210:TYR:CE1	45:MI:227:LEU:HD21	2.47	0.50
46:MJ:190:HIS:CD2	46:MJ:414:ASN:HD22	2.29	0.50
46:MJ:285:THR:OG1	46:MJ:288:GLU:OE1	2.29	0.50
45:MM:311:LYS:HD2	45:MM:342:GLN:HG3	1.92	0.50
45:NC:71:GLU:HG2	45:NC:73:THR:H	1.76	0.50
45:NE:254:GLU:OE2	46:NH:99:ASN:ND2	2.44	0.50
45:NG:259:LEU:O	45:NG:380:ASN:ND2	2.44	0.50
45:NG:332:ILE:HD12	45:NG:351:PHE:CE2	2.47	0.50
45:NK:116:ASP:N	45:NK:116:ASP:OD2	2.43	0.50
45:OA:202:VAL:HA	45:OA:268:MET:O	2.11	0.50
45:OC:152:LEU:O	45:OC:155:GLU:HG3	2.11	0.50
45:OC:427:ALA:HA	45:OC:430:LYS:NZ	2.26	0.50
46:OD:52:ASN:OD1	46:OD:62:ARG:NH2	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OF:304:ASP:HB3	46:OF:307:HIS:ND1	2.25	0.50
45:OI:119:LEU:HA	45:OI:122:ILE:HG22	1.93	0.50
46:PB:316:LEU:HG	46:PB:352:SER:HB2	1.93	0.50
46:PF:132:GLY:HA3	46:PF:163:ILE:HG22	1.92	0.50
45:PK:141:VAL:HG11	45:PK:172:TYR:CD1	2.45	0.50
45:PK:346:TRP:CD1	46:PN:391:ARG:HG3	2.46	0.50
46:PL:376:GLU:HA	46:PL:379:LYS:HZ2	1.77	0.50
45:QA:319:TYR:CD2	45:QA:323:VAL:HG21	2.47	0.50
45:QE:269:LEU:HD22	45:QE:384:ILE:HD11	1.93	0.50
45:QG:28:HIS:NE2	45:QG:48:ALA:O	2.44	0.50
46:QJ:203:ASP:OD2	46:QJ:205:GLU:HG3	2.11	0.50
45:RA:322:ASP:OD1	45:RA:373:ARG:NH1	2.42	0.50
46:RB:135:ILE:HD11	46:RB:152:ILE:HD11	1.93	0.50
46:RB:222:TYR:HA	46:RB:225:LEU:HD12	1.94	0.50
45:RC:334:THR:HA	45:RC:337:THR:HG22	1.93	0.50
46:RD:334:GLN:HA	46:RD:341:PHE:CE1	2.46	0.50
45:RE:174:SER:HB2	45:RE:177:VAL:O	2.10	0.50
45:RE:332:ILE:HA	45:RE:335:ILE:HG12	1.94	0.50
45:RG:36:MET:HE3	45:RG:37:PRO:HD2	1.92	0.50
46:RJ:68:LEU:HG	46:RJ:112:LEU:HD13	1.94	0.50
46:RJ:114:ASP:OD1	46:RJ:115:SER:N	2.43	0.50
45:RM:174:SER:HB2	45:RM:177:VAL:HB	1.93	0.50
46:RN:31:ASP:OD2	46:RN:37:HIS:ND1	2.44	0.50
46:RN:289:LEU:HD13	46:RN:365:VAL:HG23	1.92	0.50
45:SC:326:LYS:HE2	46:SD:220:PRO:HD2	1.94	0.50
45:SG:348:PRO:HD2	46:SH:388:MET:HE2	1.93	0.50
45:SI:242:LEU:HD21	45:SI:251:ASP:HA	1.94	0.50
45:TA:88:HIS:HB3	45:TA:91:GLN:HG2	1.92	0.50
46:TB:210:ILE:O	46:TB:214:THR:OG1	2.14	0.50
45:TE:328:VAL:HG11	45:TE:353:VAL:HG21	1.93	0.50
46:TJ:276:ARG:NH2	46:TJ:277:GLY:HA2	2.26	0.50
46:TL:238:CYS:HA	46:TL:241:ARG:CZ	2.42	0.50
45:UG:263:PRO:HB2	45:UG:264:ARG:HH22	1.76	0.50
45:UG:326:LYS:HE2	46:UH:220:PRO:HB2	1.93	0.50
45:UK:260:VAL:HB	46:UL:397:TRP:CZ2	2.41	0.50
45:UM:32:PRO:HB3	45:UM:83:TYR:CE1	2.47	0.50
46:UN:309:ARG:NH2	46:UN:426:GLN:O	2.37	0.50
45:VA:356:ASN:OD1	45:VA:357:TYR:N	2.44	0.50
46:VB:3:GLU:HB2	46:VB:62:ARG:NH2	2.26	0.50
46:VH:313:ALA:HB1	46:VH:367:PHE:HE1	1.76	0.50
46:VN:257:LEU:O	46:VN:370:ASN:ND2	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WA:114:ILE:HA	45:WA:117:LEU:HD13	1.93	0.50
46:WB:233:MET:HE3	46:WB:233:MET:HA	1.94	0.50
46:WF:344:TRP:HB3	46:WF:430:ALA:HB2	1.92	0.50
45:WG:118:CYS:O	45:WG:122:ILE:HG12	2.12	0.50
45:WG:244:PHE:HB2	45:WG:356:ASN:HD21	1.76	0.50
46:WH:321:MET:HE1	46:WH:326:VAL:HG23	1.93	0.50
46:WL:130:LEU:HD21	46:WL:133:PHE:CE1	2.46	0.50
45:WM:175:PRO:HG2	45:WM:304:LYS:HG2	1.92	0.50
45:DC:311:LYS:NZ	45:DC:344:VAL:HA	2.26	0.50
8:0H:391:LYS:NZ	8:1H:65:ILE:HD13	2.23	0.50
10:0Q:7:GLN:HB3	10:0Q:73:LEU:HD11	1.93	0.50
13:0U:42:HIS:HE1	13:0U:44:ILE:HB	1.76	0.50
3:1C:86:LYS:NZ	45:EM:81:GLY:HA2	2.26	0.50
4:1D:95:GLN:NE2	45:EG:364:PRO:HB2	2.25	0.50
7:1G:100:GLU:CD	46:JB:320:ARG:HH12	2.19	0.50
21:1L:488:LYS:HE3	46:BH:32:PRO:HB2	1.93	0.50
21:1L:636:ARG:CZ	21:1L:706:THR:HA	2.42	0.50
21:1L:831:LYS:HA	21:1L:831:LYS:HE2	1.92	0.50
21:1L:901:LYS:H	46:CB:320:ARG:HH12	1.58	0.50
21:1L:901:LYS:HG2	46:CB:320:ARG:NH1	2.27	0.50
9:1N:215:CYS:SG	46:KJ:32:PRO:HG2	2.52	0.50
23:1O:195:GLN:HG2	23:1O:198:LYS:HZ2	1.76	0.50
24:1P:302:LYS:O	24:1P:306:GLU:HG3	2.12	0.50
25:1R:305:PRO:HB3	25:1R:321:PHE:HE1	1.76	0.50
13:1U:318:CYS:SG	13:1U:319:HIS:N	2.84	0.50
14:1V:4:GLU:OE1	13:2U:392:GLN:N	2.44	0.50
14:1V:176:GLN:O	14:1V:180:LYS:HG2	2.11	0.50
15:1X:18:ILE:HD12	46:MH:22:GLU:OE1	2.11	0.50
27:2C:188:ILE:HG22	27:2C:192:GLN:OE1	2.11	0.50
30:2H:218:HIS:O	45:MC:84:ARG:NH1	2.44	0.50
31:2I:118:LYS:HZ2	45:GC:342:GLN:HE21	1.58	0.50
20:2K:237:GLU:HG2	20:2K:240:MET:HE2	1.93	0.50
21:2L:525:LEU:HB2	46:BN:320:ARG:NH1	2.27	0.50
21:2L:785:LEU:HA	21:2L:789:GLN:NE2	2.24	0.50
9:2N:69:LYS:HB2	9:2N:72:TYR:CE2	2.42	0.50
14:2V:166:ASN:OD1	14:2V:167:TYR:N	2.44	0.50
26:2W:189:ARG:HG3	45:KM:47:ASP:CG	2.36	0.50
16:3B:190:LEU:HD13	16:3B:195:ILE:HB	1.92	0.50
11:3S:83:ASP:OD2	13:3U:248:PRO:HB2	2.11	0.50
13:3U:428:GLU:N	13:3U:428:GLU:OE1	2.44	0.50
27:4C:125:PHE:HZ	27:4C:146:ARG:HE	1.58	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4Q:6:PHE:CE1	10:4Q:8:SER:HB3	2.47	0.50
36:5B:138:ARG:HH22	46:NH:359:LYS:HZ3	1.59	0.50
36:5C:142:GLN:O	36:5C:146:VAL:HG12	2.10	0.50
39:6F:76:PRO:O	39:6F:80:ASN:ND2	2.43	0.50
39:6F:85:THR:OG1	46:JF:355:ASP:OD2	2.29	0.50
40:6G:226:GLY:C	45:UE:123:ARG:HH12	2.18	0.50
41:6H:258:THR:HG21	46:FF:245:GLN:NE2	2.26	0.50
34:6R:50:ASP:HB3	34:6R:52:TYR:HD2	1.75	0.50
34:7R:112:ARG:HG3	34:7R:113:ILE:N	2.25	0.50
34:7R:545:TYR:CD2	34:7R:549:MET:HE1	2.46	0.50
45:AC:326:LYS:NZ	45:AC:327:ASP:OD1	2.33	0.50
45:AE:188:ILE:HD12	45:AE:425:LEU:HD11	1.93	0.50
46:AF:173:PRO:HG2	46:AF:380:ARG:HE	1.76	0.50
46:AF:201:VAL:HG23	46:AF:301:CYS:SG	2.52	0.50
45:AG:205:ASP:OD1	45:AG:303:ALA:HA	2.11	0.50
45:AK:18:ASN:OD1	45:AK:19:ALA:N	2.43	0.50
46:AL:273:LEU:H	46:AL:292:GLN:HE22	1.58	0.50
45:BA:80:THR:O	45:BA:84:ARG:NH2	2.32	0.50
46:BF:86:ARG:HH21	46:BF:87:PRO:HG2	1.75	0.50
46:BH:257:LEU:HD21	46:BH:314:SER:OG	2.11	0.50
45:BI:408:TYR:HB3	45:BI:413:MET:HE3	1.93	0.50
46:CB:309:ARG:NH2	46:CB:426:GLN:O	2.37	0.50
45:CC:90:GLU:OE2	45:CC:121:ARG:NH1	2.44	0.50
46:CD:173:PRO:HD2	46:CD:174:LYS:HZ1	1.77	0.50
46:CD:324:LYS:HD3	45:CE:222:PRO:O	2.12	0.50
46:CF:165:GLU:HG2	46:CF:250:LEU:HD21	1.92	0.50
45:CI:69:ASP:O	45:CI:94:SER:HA	2.11	0.50
45:DA:141:VAL:HG11	45:DA:172:TYR:HD1	1.76	0.50
45:DI:183:GLU:N	45:DI:184:PRO:HD2	2.27	0.50
45:DI:231:ILE:O	45:DI:235:ILE:HG12	2.12	0.50
45:DI:274:PRO:HD3	45:DI:291:ILE:HD11	1.93	0.50
46:DJ:257:LEU:HA	46:DJ:312:THR:HG21	1.94	0.50
45:DK:252:ILE:HA	45:DK:255:PHE:CE2	2.46	0.50
46:EB:313:ALA:HB1	46:EB:367:PHE:CZ	2.46	0.50
45:EC:208:ALA:O	45:EC:212:ILE:HG12	2.11	0.50
45:EC:265:ILE:HG12	45:EC:432:TYR:HE1	1.76	0.50
46:ED:222:TYR:HA	46:ED:225:LEU:HD12	1.93	0.50
46:EF:268:ILE:HG13	46:EF:300:MET:SD	2.51	0.50
45:EG:208:ALA:O	45:EG:212:ILE:HG12	2.11	0.50
46:EJ:66:MET:CE	46:EJ:147:MET:HE3	2.41	0.50
46:EL:19:LYS:HG3	46:EL:226:ASN:CB	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EM:269:LEU:HB3	45:EM:301:MET:CE	2.41	0.50
46:FD:190:HIS:ND1	46:FD:411:ALA:HA	2.27	0.50
45:FG:171:ILE:HG13	45:FG:204:LEU:HB2	1.94	0.50
45:FI:288:VAL:HG11	45:FI:327:ASP:HB3	1.93	0.50
46:FJ:150:LEU:HD21	46:FJ:154:LYS:NZ	2.26	0.50
45:GC:254:GLU:OE1	46:GF:98:GLY:HA2	2.12	0.50
45:GE:174:SER:HB2	45:GE:177:VAL:O	2.11	0.50
46:GF:167:PHE:CZ	46:GF:233:MET:HG2	2.47	0.50
45:GG:221:ARG:NH2	46:GH:321:MET:HA	2.25	0.50
46:GJ:268:ILE:HG22	46:GJ:368:VAL:HG22	1.92	0.50
45:GM:317:MET:HE2	45:GM:319:TYR:CE1	2.45	0.50
46:GN:267:MET:HE2	46:GN:301:CYS:SG	2.51	0.50
46:HB:133:PHE:CD1	46:HB:164:MET:HE1	2.42	0.50
46:HD:180:VAL:HG13	46:HD:183:TYR:HD1	1.77	0.50
45:HE:22:GLU:OE2	45:HE:83:TYR:OH	2.22	0.50
45:HG:88:HIS:HB3	45:HG:91:GLN:HG2	1.93	0.50
45:HK:141:VAL:HG11	45:HK:172:TYR:HD1	1.76	0.50
45:IA:101:ASN:HA	45:IA:144:GLY:H	1.76	0.50
46:IH:103:LYS:HG2	46:IH:108:GLU:HG2	1.93	0.50
46:IL:16:ILE:HD13	46:IL:226:ASN:OD1	2.11	0.50
46:IN:293:MET:HE1	46:IN:330:MET:HE1	1.92	0.50
45:JC:180:ALA:HB3	45:JC:183:GLU:HB2	1.92	0.50
45:JE:108:TYR:O	45:JE:112:LYS:NZ	2.42	0.50
45:JE:274:PRO:HD3	45:JE:291:ILE:HD11	1.93	0.50
45:JK:210:TYR:HH	46:JL:323:THR:HG1	1.54	0.50
45:JK:261:PRO:HG2	45:JK:313:MET:HE3	1.94	0.50
45:JK:319:TYR:CD2	45:JK:323:VAL:HG11	2.46	0.50
45:KC:227:LEU:O	45:KC:231:ILE:HG12	2.11	0.50
45:KE:258:ASN:OD1	45:KE:352:LYS:NZ	2.41	0.50
46:KF:253:LEU:O	46:KF:257:LEU:HD23	2.11	0.50
45:KK:116:ASP:OD1	45:KK:117:LEU:N	2.44	0.50
46:KL:73:MET:SD	46:KL:92:PHE:HB3	2.51	0.50
45:LE:174:SER:HB3	45:LE:177:VAL:O	2.10	0.50
46:LF:377:MET:SD	46:LF:380:ARG:NH2	2.79	0.50
45:LI:140:SER:OG	47:LI:501:GTP:O2B	2.26	0.50
46:LJ:67:ASP:OD1	46:LJ:68:LEU:N	2.43	0.50
46:LJ:175:VAL:HG13	46:LJ:205:GLU:OE2	2.11	0.50
46:LL:190:HIS:CE1	46:LL:414:ASN:HD22	2.30	0.50
46:LL:380:ARG:O	46:LL:383:GLU:HG3	2.10	0.50
46:MB:334:GLN:HA	46:MB:341:PHE:CE2	2.47	0.50
46:NB:295:ASP:OD1	46:NB:297:LYS:HG2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NC:358:GLN:OE1	45:NC:359:PRO:HD2	2.11	0.50
45:NI:183:GLU:N	45:NI:184:PRO:HD2	2.26	0.50
45:NK:265:ILE:HG22	45:NK:380:ASN:HD21	1.77	0.50
46:NN:342:VAL:HG22	46:NN:344:TRP:HD1	1.76	0.50
46:OD:167:PHE:CE1	46:OD:233:MET:HG2	2.46	0.50
46:OF:232:ALA:HB1	46:OF:268:ILE:HD12	1.92	0.50
46:OH:217:LEU:HD23	46:OH:219:THR:H	1.77	0.50
46:OJ:318:ARG:HH11	46:OJ:358:PRO:HG3	1.76	0.50
45:OM:192:HIS:CD2	45:OM:421:ALA:HA	2.46	0.50
46:ON:313:ALA:HB1	46:ON:367:PHE:HE1	1.75	0.50
45:PA:234:VAL:HG21	45:PA:302:MET:HE1	1.93	0.50
45:PC:386:GLU:OE2	45:PC:386:GLU:N	2.43	0.50
46:PD:92:PHE:HD1	46:PD:94:GLN:HE22	1.58	0.50
46:PD:342:VAL:HG13	46:PD:345:ILE:HG22	1.92	0.50
46:PF:256:ASN:HD22	46:PF:350:LYS:HE3	1.75	0.50
46:PL:303:ALA:HB2	46:PL:377:MET:HE3	1.92	0.50
46:PN:327:ASP:OD1	46:PN:328:GLU:N	2.45	0.50
46:QD:178:THR:HB	46:QD:181:GLU:HG3	1.93	0.50
46:QF:214:THR:HG23	46:QF:215:LEU:HD22	1.93	0.50
45:QG:346:TRP:CD1	46:QH:391:ARG:HG3	2.46	0.50
45:QI:107:HIS:ND1	45:QI:107:HIS:O	2.45	0.50
45:QI:220:GLU:HG2	45:QI:221:ARG:HG2	1.92	0.50
45:QK:174:SER:HB3	45:QK:177:VAL:O	2.12	0.50
46:QL:9:GLY:HA2	46:QL:66:MET:O	2.11	0.50
46:QL:344:TRP:NE1	45:QM:397:LEU:O	2.44	0.50
45:QM:147:SER:HB2	45:QM:190:SER:OG	2.12	0.50
45:RA:226:ASN:HA	45:RA:229:ARG:NE	2.25	0.50
45:RE:326:LYS:HE2	46:RF:208:TYR:CD1	2.46	0.50
46:RF:221:THR:HG23	46:RF:224:ASP:H	1.76	0.50
45:RG:255:PHE:O	45:RG:259:LEU:HB2	2.11	0.50
45:RG:332:ILE:HA	45:RG:335:ILE:HD12	1.94	0.50
46:RH:178:THR:HB	46:RH:181:GLU:HG3	1.93	0.50
46:RJ:36:TYR:CZ	46:RJ:44:LEU:HD11	2.47	0.50
46:RJ:279:GLN:OE1	46:RJ:279:GLN:N	2.38	0.50
46:RL:178:THR:N	46:RL:181:GLU:OE2	2.45	0.50
46:RL:269:GLY:HA2	46:RL:300:MET:HE1	1.93	0.50
46:SD:347:ASN:O	45:SE:181:VAL:HG12	2.11	0.50
45:SE:274:PRO:HG3	45:SE:286:LEU:HD23	1.93	0.50
46:SF:105:HIS:CE1	46:SF:150:LEU:HD12	2.46	0.50
46:SF:173:PRO:HG2	46:SF:380:ARG:HD3	1.94	0.50
45:SG:205:ASP:OD1	45:SG:303:ALA:HA	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SL:1:MET:HE1	45:SM:96:LYS:HD3	1.93	0.50
46:TF:1:MET:HA	45:TG:96:LYS:NZ	2.26	0.50
46:TJ:167:PHE:CZ	46:TJ:233:MET:HG2	2.46	0.50
46:TL:377:MET:HE3	46:TL:377:MET:HA	1.92	0.50
46:TN:91:VAL:HG21	46:TN:116:VAL:HB	1.94	0.50
46:UB:254:ALA:O	46:UB:258:ILE:HG22	2.11	0.50
46:UD:164:MET:N	46:UD:197:ASP:OD2	2.44	0.50
46:UF:237:THR:HG23	46:UF:241:ARG:HE	1.76	0.50
45:UK:5:ILE:HD11	45:UK:135:PHE:CE1	2.47	0.50
46:UL:321:MET:HE2	46:UL:363:MET:HE1	1.94	0.50
46:VD:68:LEU:HD23	46:VD:143:THR:HB	1.92	0.50
45:VE:109:THR:O	45:VE:112:LYS:NZ	2.45	0.50
45:VG:121:ARG:NH1	45:VG:124:LYS:HD2	2.26	0.50
46:VN:1:MET:HE3	46:VN:46:ARG:NH1	2.26	0.50
45:WC:74:VAL:O	45:WC:77:GLU:HG3	2.11	0.50
46:WF:31:ASP:OD1	46:WF:35:THR:N	2.38	0.50
45:WK:210:TYR:HE1	45:WK:227:LEU:HD11	1.76	0.50
45:WM:210:TYR:CE1	45:WM:227:LEU:HD11	2.45	0.50
45:WM:298:PRO:HA	45:WM:301:MET:HE1	1.93	0.50
2:0B:113:LYS:HA	2:0B:113:LYS:HE2	1.94	0.50
3:0C:33:ALA:O	3:0C:34:LYS:HB2	2.12	0.50
7:0G:106:ASP:O	7:0G:110:ASN:ND2	2.41	0.50
13:0U:384:GLY:HA2	13:0U:407:GLY:HA2	1.92	0.50
3:1C:48:ARG:HH22	45:EM:221:ARG:HH11	1.58	0.50
7:1G:155:PRO:HB2	45:KA:29:GLY:HA2	1.94	0.50
23:1O:74:LEU:O	23:1O:78:LYS:HG3	2.12	0.50
24:1P:221:ILE:O	24:1P:225:GLN:NE2	2.41	0.50
11:1S:32:LYS:O	11:1S:34:ILE:HG23	2.11	0.50
14:1V:122:LYS:HD3	46:LL:390:ARG:HD2	1.92	0.50
16:2B:12:ASN:HD21	16:2B:180:GLU:CD	2.19	0.50
21:2L:393:HIS:HA	21:2L:396:ASN:ND2	2.26	0.50
13:2U:8:GLN:HG2	13:2U:601:ILE:HG13	1.92	0.50
13:2U:194:ARG:HD2	13:2U:212:THR:HG21	1.94	0.50
1:3A:69:ASN:HD21	46:AN:363:MET:HE1	1.76	0.50
21:3L:178:LEU:HA	21:3L:181:LEU:HG	1.94	0.50
23:3O:352:ARG:CB	23:3O:356:ARG:HH21	2.25	0.50
11:3S:256:LEU:HD13	11:3S:259:PHE:CD2	2.47	0.50
14:3V:113:ARG:N	45:LA:196:GLU:OE2	2.45	0.50
10:4Q:15:TYR:HD1	10:4Q:164:ARG:NE	2.09	0.50
34:4R:508:ALA:HB3	34:4R:513:HIS:CE1	2.46	0.50
35:4S:112:THR:HA	35:4S:117:LYS:HE2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:4S:195:ASN:OD1	35:4S:196:LYS:N	2.45	0.50
15:4X:10:ARG:HD2	15:4X:11:GLU:O	2.10	0.50
36:5A:102:TYR:HA	45:KA:393:HIS:NE2	2.26	0.50
36:5B:131:ARG:HG3	36:5B:132:SER:N	2.26	0.50
36:5C:90:GLN:HE22	36:5C:98:LEU:H	1.58	0.50
37:5G:72:ASP:O	37:5G:104:MET:N	2.44	0.50
40:6G:265:LEU:HB3	45:VA:339:ARG:NH1	2.27	0.50
45:AA:254:GLU:OE1	46:AD:99:ASN:ND2	2.45	0.50
45:AE:346:TRP:CD1	46:AH:391:ARG:HG3	2.47	0.50
45:AG:260:VAL:HG13	45:AG:265:ILE:O	2.11	0.50
45:AG:371:VAL:HG12	45:AG:373:ARG:H	1.76	0.50
46:AL:39:ASP:OD2	46:AL:40:SER:N	2.44	0.50
46:AL:91:VAL:HG21	46:AL:116:VAL:HB	1.91	0.50
45:AM:195:LEU:HD21	45:AM:264:ARG:HD2	1.92	0.50
45:BA:79:ARG:NH2	45:BA:89:PRO:O	2.45	0.50
46:BB:54:ALA:HB3	46:BB:58:ARG:HG2	1.94	0.50
45:BG:239:THR:HG23	45:BG:243:ARG:HH21	1.76	0.50
46:BH:187:LEU:HD11	46:BH:408:PHE:HE2	1.77	0.50
46:BJ:133:PHE:HB2	46:BJ:164:MET:HE1	1.94	0.50
45:BK:205:ASP:OD1	45:BK:303:ALA:HA	2.11	0.50
46:BN:342:VAL:HG13	46:BN:345:ILE:HG22	1.93	0.50
45:CA:297:GLU:OE2	45:CA:300:ASN:ND2	2.44	0.50
45:CC:89:PRO:HD2	45:DC:280:LYS:NZ	2.26	0.50
46:CD:175:VAL:HG22	46:CD:205:GLU:HB3	1.93	0.50
45:CI:136:LEU:HD23	45:CI:167:LEU:HB2	1.92	0.50
45:DA:183:GLU:N	45:DA:184:PRO:HD2	2.26	0.50
46:DB:317:PHE:HD1	46:DB:365:VAL:HG22	1.76	0.50
45:DE:231:ILE:O	45:DE:235:ILE:HG12	2.12	0.50
45:DI:17:GLY:HA2	45:DI:20:CYS:SG	2.52	0.50
45:EC:115:VAL:HG21	45:EC:156:ARG:HE	1.76	0.50
45:EC:171:ILE:O	45:EC:171:ILE:HG13	2.10	0.50
45:EC:287:SER:O	45:EC:291:ILE:HG23	2.11	0.50
46:ED:284:LEU:HB2	46:ED:363:MET:HE2	1.93	0.50
46:ED:319:GLY:HA2	46:ED:357:PRO:HD3	1.94	0.50
45:EE:133:GLN:HB3	45:EE:252:ILE:HD11	1.92	0.50
46:EH:213:ARG:HE	46:EH:297:LYS:NZ	2.09	0.50
46:EL:138:SER:HA	46:EL:169:VAL:HB	1.94	0.50
46:EL:358:PRO:HB2	46:EL:361:LEU:HB2	1.91	0.50
45:FA:398:MET:CE	46:FB:346:PRO:HD2	2.40	0.50
46:FB:55:THR:HG23	46:GB:283:ALA:HA	1.93	0.50
46:FB:101:TRP:HE3	46:FB:403:MET:HE1	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FB:241:ARG:NH1	46:FB:242:PHE:HD2	2.09	0.50
46:FF:3:GLU:OE1	46:FF:3:GLU:N	2.36	0.50
46:FF:105:HIS:CE1	46:FF:150:LEU:HD12	2.45	0.50
46:FJ:21:TRP:HA	46:FJ:24:ILE:HG22	1.92	0.50
45:GA:127:ASP:N	45:GA:127:ASP:OD1	2.43	0.50
45:GM:292:THR:HG21	45:GM:331:SER:HB3	1.93	0.50
46:GN:117:LEU:HA	46:GN:120:VAL:HG22	1.94	0.50
45:HA:175:PRO:HG3	45:HA:390:ARG:HH21	1.77	0.50
45:HA:245:ASP:O	45:HA:356:ASN:ND2	2.45	0.50
45:HK:332:ILE:HD12	45:HK:351:PHE:CD1	2.46	0.50
46:HL:226:ASN:HA	46:HL:229:VAL:HG12	1.94	0.50
45:IA:205:ASP:OD1	45:IA:206:ASN:N	2.42	0.50
45:IA:268:MET:HB2	45:IA:379:SER:O	2.10	0.50
46:IB:66:MET:HE2	46:IB:116:VAL:HG11	1.92	0.50
45:IE:107:HIS:ND1	45:IE:107:HIS:O	2.44	0.50
45:IM:340:THR:HG23	45:IM:341:ILE:HG13	1.93	0.50
45:JA:26:LEU:HD11	45:JA:364:PRO:HD2	1.93	0.50
45:JA:68:LEU:HD11	45:JA:118:CYS:SG	2.51	0.50
45:JG:231:ILE:O	45:JG:235:ILE:HG12	2.12	0.50
46:JH:313:ALA:HB1	46:JH:367:PHE:HE1	1.76	0.50
46:KB:201:VAL:HG22	46:KB:266:PHE:O	2.11	0.50
45:KC:244:PHE:HB2	45:KC:356:ASN:HD21	1.76	0.50
45:KG:326:LYS:HZ3	46:KJ:208:TYR:HB3	1.76	0.50
46:LB:139:LEU:HD12	46:LB:170:VAL:HG12	1.94	0.50
45:LE:387:VAL:HG12	45:LE:390:ARG:HH21	1.76	0.50
46:LF:139:LEU:HD22	46:LF:188:SER:HB2	1.93	0.50
45:LG:141:VAL:HG21	45:LG:172:TYR:CE2	2.47	0.50
45:LG:221:ARG:NH1	46:LH:322:SER:OG	2.45	0.50
45:LI:217:LEU:HB3	45:LI:219:ILE:HG13	1.94	0.50
45:LI:407:TRP:CH2	46:LJ:258:ILE:HG13	2.46	0.50
46:LL:190:HIS:HE1	46:LL:414:ASN:HD22	1.59	0.50
45:LM:88:HIS:CE1	45:LM:90:GLU:HG2	2.46	0.50
45:MC:195:LEU:HD21	45:MC:264:ARG:HD2	1.94	0.50
45:MC:210:TYR:HE1	45:MC:227:LEU:HD21	1.77	0.50
46:MF:334:GLN:HE22	46:MF:348:ASN:H	1.57	0.50
45:MG:55:GLU:OE2	45:MG:61:HIS:NE2	2.45	0.50
45:MG:155:GLU:HA	45:MG:197:HIS:CE1	2.47	0.50
46:MJ:66:MET:HE2	46:MJ:147:MET:HG2	1.93	0.50
46:MJ:318:ARG:HH11	46:MJ:318:ARG:HG2	1.76	0.50
45:MK:7:ILE:HB	45:MK:137:VAL:HG12	1.93	0.50
45:NC:202:VAL:HG23	45:NC:204:LEU:HD23	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:NL:134:GLN:HB2	46:NL:165:GLU:OE2	2.10	0.50
46:NN:105:HIS:CD2	46:NN:150:LEU:HB2	2.46	0.50
45:OE:348:PRO:HG3	46:OH:384:GLN:HG3	1.92	0.50
46:OF:248:SER:HA	46:OF:252:LYS:HD2	1.92	0.50
46:OH:238:CYS:SG	46:OH:239:CYS:N	2.84	0.50
46:PB:289:LEU:HD13	46:PB:365:VAL:HG23	1.93	0.50
46:PH:65:LEU:HD11	46:PH:85:PHE:CD2	2.47	0.50
46:PH:285:THR:HB	46:PH:287:PRO:HD2	1.92	0.50
46:PJ:64:ILE:HA	46:PJ:89:ASN:HB3	1.93	0.50
46:PJ:86:ARG:HB3	46:PJ:89:ASN:OD1	2.10	0.50
45:PK:200:VAL:HG13	45:PK:268:MET:SD	2.51	0.50
45:PM:317:MET:HE2	45:PM:319:TYR:CE1	2.46	0.50
46:QH:405:GLU:OE1	46:QH:405:GLU:N	2.42	0.50
45:QI:352:LYS:NZ	46:QJ:179:VAL:HG22	2.27	0.50
45:QK:277:SER:H	45:QK:280:LYS:NZ	2.10	0.50
45:QM:75:ILE:O	45:QM:79:ARG:HG3	2.11	0.50
45:QM:268:MET:CE	45:QM:378:ILE:HG22	2.42	0.50
46:RB:12:CYS:O	46:RB:16:ILE:HD12	2.11	0.50
45:RC:329:ASN:HA	45:RC:332:ILE:HG12	1.93	0.50
45:RC:359:PRO:HB2	45:RC:370:LYS:NZ	2.27	0.50
46:RD:196:ALA:O	46:RD:264:HIS:NE2	2.44	0.50
45:RE:319:TYR:HB3	45:RE:323:VAL:HG21	1.94	0.50
45:RK:178:SER:OG	45:RK:180:ALA:O	2.27	0.50
45:SC:135:PHE:HE2	45:SC:164:LYS:HG2	1.76	0.50
46:SF:201:VAL:HG23	46:SF:301:CYS:SG	2.51	0.50
45:TC:49:PHE:HD1	45:TC:53:PHE:HB2	1.76	0.50
45:TG:121:ARG:NH1	45:TG:124:LYS:HD2	2.27	0.50
45:TG:183:GLU:N	45:TG:184:PRO:HD2	2.27	0.50
45:TG:184:PRO:O	45:TG:188:ILE:HG12	2.12	0.50
46:TL:21:TRP:CE3	46:TL:24:ILE:HD11	2.46	0.50
45:TM:27:GLU:HG3	45:TM:243:ARG:HH12	1.76	0.50
45:TM:317:MET:HE1	45:TM:351:PHE:HD2	1.76	0.50
45:UC:35:GLN:HE22	45:UC:60:LYS:HB2	1.77	0.50
46:UJ:3:GLU:OE1	46:UJ:127:CYS:HB2	2.10	0.50
46:UJ:87:PRO:HA	46:UJ:90:PHE:HD2	1.77	0.50
46:UL:186:THR:HA	46:UL:189:VAL:HG12	1.93	0.50
46:UL:276:ARG:HA	46:UL:279:GLN:HE22	1.76	0.50
46:VB:327:ASP:OD1	46:VB:328:GLU:N	2.44	0.50
46:VD:167:PHE:CD2	46:VD:233:MET:HE3	2.46	0.50
45:VG:31:GLN:HE22	45:VG:37:PRO:HD3	1.76	0.50
46:VH:127:CYS:SG	46:VH:130:LEU:HB2	2.51	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WA:22:GLU:HG3	45:WA:83:TYR:OH	2.11	0.50
45:WA:142:GLY:HA3	45:WA:183:GLU:HG3	1.94	0.50
46:WB:19:LYS:NZ	46:WB:227:HIS:HB2	2.26	0.50
45:WC:221:ARG:HH22	46:WD:321:MET:HB3	1.76	0.50
45:WE:350:GLY:HA2	46:WH:179:VAL:HG12	1.93	0.50
46:WF:22:GLU:OE1	46:WF:80:PRO:HB2	2.12	0.50
45:WI:346:TRP:CD1	46:WL:391:ARG:HG3	2.46	0.50
45:WK:256:GLN:NE2	46:WN:397:TRP:HH2	2.09	0.50
1:0A:130:SER:C	1:0A:132:ASP:H	2.19	0.50
6:0F:7:ILE:HD11	6:0F:63:ARG:NH2	2.27	0.50
7:0G:162:ALA:HB3	26:2W:185:PHE:CD2	2.47	0.50
1:1A:135:SER:HB3	1:1A:138:TRP:CD1	2.38	0.50
16:1B:21:LYS:HG3	16:1B:57:GLY:HA3	1.94	0.50
16:1B:22:LYS:HG3	16:1B:132:ARG:NH1	2.27	0.50
17:1F:29:GLN:N	17:1F:29:GLN:OE1	2.45	0.50
8:1H:73:LYS:O	8:1H:76:LYS:HG3	2.11	0.50
8:1H:315:GLN:O	8:1H:318:GLU:N	2.44	0.50
18:1I:8:LEU:HD13	46:JD:218:THR:HG23	1.94	0.50
19:1J:254:ASN:OD1	19:1J:255:ALA:N	2.44	0.50
19:1J:331:SER:O	19:1J:333:ALA:N	2.44	0.50
21:1L:594:GLN:HB3	25:1R:111:VAL:HG12	1.93	0.50
24:1P:297:GLU:HA	24:1P:300:LYS:HG2	1.93	0.50
24:1P:310:LYS:HA	24:1P:313:GLU:CD	2.37	0.50
12:1T:225:SER:N	45:MC:196:GLU:OE2	2.39	0.50
13:1U:149:VAL:HA	13:1U:166:LEU:HA	1.93	0.50
13:1U:255:GLY:HA3	13:1U:281:VAL:HG11	1.94	0.50
13:1U:555:LYS:HE3	13:1U:576:GLY:N	2.26	0.50
27:2C:184:ASP:O	27:2C:188:ILE:HG13	2.11	0.50
5:2E:129:HIS:CE1	5:2E:131:LYS:HB3	2.46	0.50
31:2I:96:TRP:CZ2	46:GF:291:GLN:HG2	2.47	0.50
20:2K:240:MET:O	20:2K:243:GLU:HG3	2.11	0.50
21:2L:617:ARG:NH2	21:2L:690:SER:HB3	2.26	0.50
21:2L:632:LYS:HZ1	21:2L:705:ASP:HB3	1.76	0.50
21:2L:702:PHE:O	21:2L:706:THR:HG23	2.11	0.50
23:2O:220:VAL:O	23:2O:223:ARG:HD3	2.12	0.50
25:2R:70:THR:HG22	46:MH:320:ARG:NE	2.27	0.50
11:2S:256:LEU:HA	11:2S:259:PHE:CD2	2.47	0.50
12:2T:51:TYR:CE2	12:2T:148:CYS:HA	2.42	0.50
13:2U:468:SER:O	13:2U:493:PHE:HB2	2.12	0.50
26:2W:270:GLU:HA	26:2W:273:ILE:HG22	1.93	0.50
27:3C:100:ASN:HB3	27:3C:103:ARG:HG3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:3D:120:THR:HG22	32:3D:143:SER:OG	2.11	0.50
23:3O:423:HIS:ND1	45:UG:372:MET:HE3	2.27	0.50
11:3S:32:LYS:O	11:3S:34:ILE:HG13	2.12	0.50
11:3S:96:LEU:HD22	46:MN:410:GLU:HG2	1.94	0.50
11:3S:186:ARG:O	11:3S:190:ILE:HD12	2.12	0.50
13:3U:536:VAL:HA	13:3U:552:GLY:CA	2.38	0.50
34:5R:103:VAL:HG21	34:5R:106:ASN:HD22	1.77	0.50
34:6R:427:GLU:OE1	34:6R:506:LEU:HB3	2.11	0.50
34:7R:547:GLU:HA	34:7R:550:VAL:HG12	1.94	0.50
45:AA:208:ALA:O	45:AA:212:ILE:HG12	2.11	0.50
45:AC:121:ARG:NH1	45:AC:124:LYS:HD2	2.26	0.50
45:AE:175:PRO:HG3	45:AE:390:ARG:NH2	2.26	0.50
45:BA:171:ILE:HG23	45:BA:204:LEU:O	2.12	0.50
45:BE:31:GLN:CD	45:BE:32:PRO:HD2	2.36	0.50
45:BG:145:THR:OG1	47:BG:501:GTP:O1B	2.29	0.50
46:BN:287:PRO:HD3	46:BN:325:GLU:OE1	2.11	0.50
46:CB:299:MET:HA	46:CB:299:MET:HE2	1.94	0.50
46:CF:273:LEU:H	46:CF:292:GLN:HE22	1.58	0.50
45:CG:47:ASP:O	45:CG:50:ASN:HB2	2.11	0.50
46:CH:293:MET:HE1	46:CH:330:MET:HE1	1.93	0.50
46:CJ:105:HIS:CE1	46:CJ:150:LEU:HD12	2.46	0.50
46:CL:44:LEU:HA	46:CL:47:ILE:HG23	1.94	0.50
46:CL:237:THR:OG1	46:CL:241:ARG:NH2	2.44	0.50
46:CL:309:ARG:NH2	46:CL:426:GLN:O	2.38	0.50
46:DB:347:ASN:O	45:DC:181:VAL:HG12	2.12	0.50
46:DF:3:GLU:HG3	46:DF:62:ARG:NH1	2.27	0.50
46:DH:266:PHE:CE2	46:DH:370:ASN:HB2	2.47	0.50
45:DI:184:PRO:O	45:DI:188:ILE:HG12	2.11	0.50
46:DJ:250:LEU:HD12	46:DJ:250:LEU:H	1.76	0.50
46:DL:255:VAL:HG12	45:DM:407:TRP:CE3	2.46	0.50
45:EE:37:PRO:HG2	45:EE:40:LYS:H	1.76	0.50
45:EG:229:ARG:NH1	45:EG:366:GLY:HA2	2.26	0.50
45:EG:239:THR:HG23	45:EG:243:ARG:HH21	1.77	0.50
46:EH:175:VAL:HG13	46:EH:205:GLU:HG2	1.93	0.50
45:EI:51:THR:HG22	45:EI:52:PHE:CD2	2.47	0.50
45:EI:188:ILE:HG23	45:EI:425:LEU:HD11	1.93	0.50
45:EI:269:LEU:HD11	45:EI:301:MET:HE3	1.93	0.50
45:EK:227:LEU:O	45:EK:231:ILE:HG12	2.12	0.50
46:EN:167:PHE:HE2	46:EN:233:MET:HG2	1.77	0.50
45:FC:220:GLU:H	45:FC:220:GLU:CD	2.19	0.50
46:FD:374:ILE:HG22	46:FD:422:TYR:CZ	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FG:233:GLN:HG2	45:FG:272:TYR:HE1	1.76	0.50
45:FG:346:TRP:CD1	45:FG:346:TRP:H	2.30	0.50
45:FI:319:TYR:HB3	45:FI:323:VAL:HG11	1.93	0.50
45:FK:55:GLU:OE1	45:FK:61:HIS:NE2	2.44	0.50
45:FK:181:VAL:HG22	46:FL:256:ASN:OD1	2.12	0.50
46:GF:7:ILE:CD1	46:GF:64:ILE:HB	2.42	0.50
46:GF:66:MET:HA	46:GF:91:VAL:O	2.12	0.50
46:GF:213:ARG:HH11	46:GF:216:LYS:HZ3	1.60	0.50
45:GI:326:LYS:HE3	46:GL:212:PHE:CE1	2.46	0.50
46:GJ:139:LEU:HD13	46:GJ:168:SER:HB3	1.92	0.50
45:GK:178:SER:HB2	46:GL:347:ASN:HD22	1.75	0.50
46:GL:309:ARG:NH2	46:GL:426:GLN:O	2.36	0.50
45:HC:211:ASP:OD1	45:HC:215:ARG:NH1	2.45	0.50
45:HC:241:SER:OG	45:HC:250:VAL:O	2.21	0.50
45:HG:56:THR:HG23	45:HG:58:ALA:H	1.76	0.50
46:HN:132:GLY:HA3	46:HN:163:ILE:O	2.11	0.50
46:HN:290:THR:CG2	46:HN:329:GLN:HE21	2.25	0.50
45:IA:5:ILE:HG22	45:IA:64:ARG:HG2	1.94	0.50
45:IA:346:TRP:CD1	46:ID:391:ARG:HG3	2.47	0.50
46:IF:198:GLU:HG2	46:IF:266:PHE:CE2	2.47	0.50
46:IH:201:VAL:O	46:IH:202:ILE:HD13	2.10	0.50
46:IJ:6:HIS:CE1	46:IJ:21:TRP:HE1	2.29	0.50
45:IK:185:TYR:HE1	45:IK:398:MET:HG3	1.77	0.50
45:IM:74:VAL:O	45:IM:77:GLU:HG3	2.12	0.50
46:IN:372:THR:HA	46:IN:422:TYR:HE2	1.76	0.50
45:JA:215:ARG:HH22	45:JA:300:ASN:CA	2.25	0.50
46:JD:296:ALA:HB3	46:JD:297:LYS:NZ	2.25	0.50
46:JH:148:GLY:O	46:JH:152:ILE:HG12	2.11	0.50
46:JH:201:VAL:HG23	46:JH:301:CYS:SG	2.52	0.50
45:JK:372:MET:SD	45:JK:373:ARG:HG3	2.52	0.50
45:JM:17:GLY:HA2	45:JM:20:CYS:SG	2.52	0.50
45:JM:31:GLN:OE1	45:JM:37:PRO:HD3	2.11	0.50
45:JM:88:HIS:CE1	45:KM:280:LYS:HZ1	2.29	0.50
45:JM:175:PRO:HG2	45:JM:304:LYS:HG2	1.93	0.50
46:JN:148:GLY:O	46:JN:152:ILE:HG13	2.10	0.50
46:KB:406:MET:N	46:KB:406:MET:HE2	2.26	0.50
45:KC:204:LEU:HD12	45:KC:231:ILE:HD12	1.93	0.50
46:KF:350:LYS:NZ	46:KF:352:SER:OG	2.45	0.50
45:KG:75:ILE:O	45:KG:79:ARG:HG3	2.12	0.50
46:KH:2:ARG:HB2	46:KH:131:GLN:HG3	1.94	0.50
46:KL:20:PHE:HA	46:KL:230:SER:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KM:75:ILE:HG21	45:KM:94:SER:HB3	1.93	0.50
46:KN:375:GLN:HB2	46:KN:419:VAL:HG23	1.92	0.50
45:LE:208:ALA:O	45:LE:212:ILE:HG12	2.11	0.50
46:LF:48:ASN:O	46:LF:62:ARG:NH1	2.44	0.50
46:LF:280:GLN:N	46:LF:280:GLN:OE1	2.45	0.50
45:MC:98:ASP:OD1	45:MC:99:ALA:N	2.44	0.50
45:MG:401:LYS:HZ1	46:MH:344:TRP:CD1	2.29	0.50
46:ML:5:VAL:HG12	46:ML:62:ARG:HD3	1.94	0.50
46:NB:304:ASP:HB3	46:NB:307:HIS:ND1	2.26	0.50
45:NI:88:HIS:O	45:NI:91:GLN:HG2	2.12	0.50
45:NK:147:SER:HB2	45:NK:190:SER:OG	2.11	0.50
45:NK:183:GLU:N	45:NK:184:PRO:HD2	2.25	0.50
45:NM:211:ASP:O	45:NM:215:ARG:HG2	2.10	0.50
46:NN:19:LYS:HD3	46:NN:22:GLU:OE2	2.11	0.50
45:OA:231:ILE:O	45:OA:235:ILE:HG12	2.11	0.50
45:OC:427:ALA:HA	45:OC:430:LYS:HZ2	1.76	0.50
45:OE:166:LYS:HG3	45:OE:199:ASP:H	1.76	0.50
45:OK:336:LYS:O	45:OK:339:ARG:NH2	2.44	0.50
45:PA:105:ARG:CZ	45:PA:110:ILE:HD11	2.42	0.50
45:PA:320:ARG:HG2	45:PA:358:GLN:O	2.11	0.50
45:PE:177:VAL:HG21	46:PF:327:ASP:HB3	1.93	0.50
45:PE:328:VAL:O	45:PE:332:ILE:HG12	2.11	0.50
45:PM:328:VAL:HG11	45:PM:353:VAL:HG21	1.94	0.50
45:QC:176:GLN:OE1	45:QC:304:LYS:NZ	2.44	0.50
45:QE:69:ASP:OD1	45:QE:70:LEU:N	2.44	0.50
45:QE:208:ALA:O	45:QE:212:ILE:HG12	2.12	0.50
46:QF:11:GLN:HE21	49:QF:501:GDP:PA	2.34	0.50
46:QF:252:LYS:HZ2	45:QG:101:ASN:CG	2.18	0.50
45:QI:183:GLU:N	45:QI:184:PRO:HD2	2.27	0.50
46:QL:141:GLY:HA3	49:QL:501:GDP:PB	2.52	0.50
46:QL:183:TYR:CD1	46:QL:388:MET:HE3	2.46	0.50
46:QL:325:GLU:HA	46:QL:328:GLU:OE2	2.11	0.50
45:QM:183:GLU:N	45:QM:184:PRO:HD2	2.27	0.50
46:RB:309:ARG:HE	46:RB:426:GLN:HG3	1.77	0.50
45:RC:319:TYR:CD2	45:RC:375:VAL:HG12	2.46	0.50
45:RE:256:GLN:HB2	46:RF:397:TRP:CH2	2.46	0.50
46:RF:66:MET:HE3	46:RF:147:MET:HE2	1.94	0.50
45:RI:183:GLU:N	45:RI:184:PRO:HD2	2.26	0.50
45:RI:188:ILE:HD12	45:RI:425:LEU:HD11	1.94	0.50
46:RJ:2:ARG:NH1	45:RK:72:PRO:HD2	2.26	0.50
46:RL:5:VAL:HG12	46:RL:62:ARG:HD3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RL:11:GLN:OE1	46:RL:15:GLN:NE2	2.44	0.50
45:RM:340:THR:HG23	45:RM:341:ILE:HG13	1.94	0.50
45:SI:72:PRO:HA	45:SI:75:ILE:HG22	1.94	0.50
45:SK:328:VAL:HG11	45:SK:353:VAL:HG21	1.93	0.50
45:TA:217:LEU:HD21	45:TA:368:LEU:HD22	1.94	0.50
45:TC:135:PHE:HB2	45:TC:166:LYS:HG3	1.93	0.50
45:TC:414:GLU:OE1	45:TC:415:GLU:N	2.45	0.50
45:TE:183:GLU:N	45:TE:184:PRO:HD2	2.26	0.50
46:TF:394:PHE:HA	46:TF:397:TRP:CZ3	2.46	0.50
45:TM:141:VAL:HG22	45:TM:187:SER:HA	1.93	0.50
46:UB:128:ASP:OD1	46:UB:129:CYS:N	2.40	0.50
45:UC:172:TYR:CE1	45:UC:203:MET:HA	2.44	0.50
45:UG:201:ALA:HB3	45:UG:267:PHE:HD2	1.76	0.50
45:UI:337:THR:O	45:UI:339:ARG:NH1	2.45	0.50
46:UJ:87:PRO:HA	46:UJ:90:PHE:CD2	2.46	0.50
45:UK:8:HIS:HB2	45:UK:67:PHE:HD2	1.76	0.50
46:UL:200:MET:CE	46:UL:268:ILE:HG12	2.41	0.50
46:VJ:103:LYS:HG3	46:VJ:108:GLU:OE1	2.11	0.50
45:VK:422:ARG:O	45:VK:422:ARG:NH1	2.45	0.50
45:VM:288:VAL:HA	45:VM:291:ILE:HG12	1.94	0.50
46:VN:190:HIS:O	46:VN:193:VAL:HG12	2.12	0.50
45:WA:346:TRP:CD1	46:WD:391:ARG:HG3	2.47	0.50
46:WB:175:VAL:HG22	46:WB:205:GLU:HB3	1.93	0.50
45:WE:407:TRP:CZ2	46:WF:258:ILE:HD11	2.45	0.50
45:WG:336:LYS:O	45:WG:339:ARG:NH2	2.44	0.50
46:WL:6:HIS:HD2	46:WL:21:TRP:HE1	1.59	0.50
45:WM:292:THR:HG21	45:WM:331:SER:HB3	1.94	0.50
46:WN:375:GLN:HG3	46:WN:422:TYR:HD2	1.75	0.50
45:DC:208:ALA:O	45:DC:212:ILE:HG12	2.11	0.50
4:0D:171:LEU:HD23	45:EC:79:ARG:HH21	1.77	0.50
5:0E:79:VAL:HG22	5:0E:82:ASP:H	1.77	0.50
6:0F:107:GLN:C	6:0F:109:ASP:H	2.18	0.50
7:0G:114:LYS:HE3	7:0G:116:GLN:OE1	2.12	0.50
8:0H:404:ARG:HG2	8:0H:427:PHE:CE1	2.47	0.50
9:0N:43:VAL:O	9:0N:47:LYS:HE3	2.11	0.50
13:0U:535:GLU:O	13:0U:553:GLU:N	2.44	0.50
7:1G:111:GLN:NE2	7:1G:130:ALA:O	2.45	0.50
7:1G:179:ILE:CG1	7:1G:180:PRO:HD3	2.39	0.50
18:1I:15:LEU:HD11	18:1I:20:GLY:HA2	1.93	0.50
19:1J:216:GLN:CD	46:IJ:279:GLN:HE22	2.14	0.50
20:1K:154:HIS:HA	20:1K:157:LYS:CD	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:1L:266:LYS:HE2	21:1L:271:VAL:HG12	1.93	0.50
21:1L:282:LYS:HG3	21:1L:284:ILE:HG23	1.93	0.50
9:1N:29:LYS:HB3	29:2G:59:TYR:HE2	1.75	0.50
9:1N:39:LYS:HZ2	9:1N:41:LYS:HG3	1.76	0.50
23:1O:147:VAL:HG12	23:3O:474:LEU:HD22	1.93	0.50
24:1P:298:ASP:O	24:1P:302:LYS:HG2	2.11	0.50
24:1P:335:ASP:HA	24:1P:338:ILE:HD12	1.92	0.50
13:1U:194:ARG:HH12	46:WF:79:GLY:C	2.20	0.50
13:1U:496:VAL:O	13:1U:497:LEU:HD23	2.12	0.50
30:2H:185:GLU:OE2	46:AD:359:LYS:NZ	2.45	0.50
21:2L:745:ASN:ND2	21:2L:837:LYS:HE2	2.24	0.50
23:2O:181:MET:HE1	46:VL:280:GLN:HB3	1.92	0.50
24:2P:385:ILE:HD13	45:TM:282:TYR:HD1	1.77	0.50
24:2P:406:TYR:HB3	24:2P:410:TRP:HZ3	1.76	0.50
13:2U:371:MET:HG3	13:2U:375:LYS:HB2	1.92	0.50
14:2V:257:LYS:HE3	14:2V:258:LEU:HG	1.94	0.50
21:3L:45:ARG:NH1	21:3L:47:ARG:H	2.06	0.50
25:3R:313:PRO:HB2	25:3R:315:GLN:OE1	2.10	0.50
11:3S:113:PRO:HG2	11:3S:115:GLN:HE22	1.76	0.50
33:4F:14:TYR:OH	46:GJ:53:GLU:OE1	2.29	0.50
34:5R:531:THR:HB	34:5R:588:LEU:HD11	1.92	0.50
34:6R:231:TYR:CZ	46:CN:216:LYS:HG3	2.47	0.50
34:7R:389:ASN:N	46:EB:276:ARG:HH22	2.10	0.50
45:AC:28:HIS:CE1	45:AC:49:PHE:HA	2.47	0.50
45:AC:69:ASP:OD1	45:AC:70:LEU:N	2.44	0.50
46:AH:285:THR:HB	46:AH:287:PRO:HD2	1.94	0.50
46:AJ:200:MET:HE3	46:AJ:268:ILE:HG21	1.94	0.50
46:AL:12:CYS:O	46:AL:16:ILE:HG12	2.12	0.50
45:BA:210:TYR:CG	46:BB:324:LYS:HD2	2.47	0.50
46:BD:330:MET:N	46:BD:330:MET:HE2	2.26	0.50
45:BE:274:PRO:HG3	45:BE:286:LEU:HD13	1.94	0.50
45:BG:372:MET:HE2	45:BG:372:MET:N	2.27	0.50
45:CA:268:MET:HE3	45:CA:378:ILE:HG13	1.94	0.50
46:CD:67:ASP:OD2	46:CD:69:GLU:HG2	2.11	0.50
46:CF:294:PHE:CE2	46:CF:333:VAL:HG11	2.47	0.50
46:CJ:86:ARG:HB3	46:CJ:88:ASP:OD1	2.12	0.50
46:CL:238:CYS:SG	46:CL:239:CYS:N	2.85	0.50
46:DB:133:PHE:HB2	46:DB:164:MET:SD	2.52	0.50
45:DG:74:VAL:O	45:DG:78:VAL:HG23	2.11	0.50
45:EG:37:PRO:HG2	45:EG:40:LYS:HD3	1.93	0.50
46:EH:386:THR:O	46:EH:390:ARG:HG3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EI:208:ALA:O	45:EI:212:ILE:HG12	2.11	0.50
45:EK:195:LEU:HD22	45:EK:428:LEU:HD11	1.93	0.50
45:EM:185:TYR:O	45:EM:189:LEU:HG	2.12	0.50
46:FF:192:LEU:HD21	46:FF:199:CYS:SG	2.52	0.50
46:FJ:55:THR:HG23	46:GJ:283:ALA:HA	1.92	0.50
46:FJ:262:ARG:NH1	46:FJ:421:GLU:OE1	2.45	0.50
45:FK:174:SER:HB2	45:FK:177:VAL:HB	1.93	0.50
45:FM:135:PHE:HB2	45:FM:166:LYS:HG2	1.94	0.50
46:GF:285:THR:OG1	46:GF:288:GLU:OE1	2.30	0.50
45:GG:384:ILE:O	45:GG:387:VAL:HG22	2.11	0.50
45:HC:260:VAL:HG13	45:HC:265:ILE:O	2.10	0.50
45:HG:89:PRO:HD3	45:IG:280:LYS:HZ3	1.75	0.50
46:HJ:39:ASP:OD1	46:HJ:40:SER:N	2.45	0.50
45:HM:317:MET:HE2	45:HM:319:TYR:CE1	2.46	0.50
46:HN:118:ASP:HB3	46:HN:122:LYS:HZ3	1.77	0.50
46:HN:240:LEU:HD12	46:HN:249:ASP:HB2	1.93	0.50
45:IA:260:VAL:H	46:ID:397:TRP:HH2	1.59	0.50
46:ID:248:SER:HB2	46:ID:252:LYS:HG2	1.94	0.50
46:ID:309:ARG:NH2	46:ID:426:GLN:O	2.30	0.50
46:IH:232:ALA:HB1	46:IH:268:ILE:HD12	1.92	0.50
45:II:10:GLY:O	45:II:14:ILE:HG12	2.12	0.50
46:IJ:86:ARG:HH11	46:IJ:87:PRO:HD2	1.77	0.50
46:IJ:114:ASP:OD1	46:IJ:115:SER:N	2.44	0.50
45:IK:121:ARG:HA	45:IK:124:LYS:HZ3	1.74	0.50
45:IK:245:ASP:N	45:IK:245:ASP:OD2	2.43	0.50
45:JA:68:LEU:HD23	45:JA:93:ILE:HB	1.92	0.50
45:JC:173:PRO:HB3	45:JC:183:GLU:OE2	2.11	0.50
45:JE:183:GLU:N	45:JE:184:PRO:HD2	2.27	0.50
46:JF:289:LEU:HD13	46:JF:365:VAL:HG23	1.94	0.50
45:JM:288:VAL:HG11	45:JM:327:ASP:HB3	1.94	0.50
46:JN:19:LYS:HD3	46:JN:227:HIS:CD2	2.46	0.50
46:KB:86:ARG:NH1	46:KB:86:ARG:HA	2.26	0.50
46:KD:31:ASP:OD2	46:KD:33:THR:OG1	2.30	0.50
46:KH:150:LEU:O	46:KH:154:LYS:HG2	2.12	0.50
46:KN:121:ARG:O	46:KN:125:GLU:HG2	2.12	0.50
45:LA:183:GLU:N	45:LA:184:PRO:HD2	2.26	0.50
46:LD:135:ILE:HG13	46:LD:152:ILE:HD11	1.92	0.50
46:LL:20:PHE:HA	46:LL:230:SER:OG	2.12	0.50
45:LM:268:MET:HE1	45:LM:380:ASN:CG	2.37	0.50
46:MJ:97:ALA:HB3	46:MJ:143:THR:HB	1.94	0.50
45:MM:96:LYS:HZ1	46:MN:1:MET:HE2	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MM:183:GLU:N	45:MM:184:PRO:HD2	2.26	0.50
45:NC:116:ASP:N	45:NC:116:ASP:OD2	2.43	0.50
45:NE:328:VAL:O	45:NE:332:ILE:HG12	2.11	0.50
45:NG:331:SER:O	45:NG:335:ILE:HG12	2.12	0.50
46:NJ:36:TYR:CZ	46:NJ:44:LEU:HD21	2.47	0.50
46:NJ:167:PHE:CZ	46:NJ:233:MET:HG2	2.47	0.50
46:NL:67:ASP:OD2	46:NL:68:LEU:N	2.44	0.50
45:OA:389:SER:O	45:OA:393:HIS:ND1	2.39	0.50
46:OD:2:ARG:HA	46:OD:131:GLN:NE2	2.25	0.50
45:OK:396:ASP:OD2	45:OK:422:ARG:NH1	2.44	0.50
45:PA:147:SER:HB2	45:PA:190:SER:HB3	1.92	0.50
46:PB:282:ARG:NH2	46:PB:292:GLN:OE1	2.42	0.50
45:PC:221:ARG:HH22	46:PD:286:VAL:HG21	1.77	0.50
45:PC:331:SER:O	45:PC:335:ILE:HG12	2.12	0.50
46:PD:238:CYS:SG	46:PD:239:CYS:N	2.85	0.50
46:PH:406:MET:O	46:PH:410:GLU:HG2	2.11	0.50
45:PI:331:SER:O	45:PI:335:ILE:HG12	2.11	0.50
46:PL:309:ARG:NH2	46:PL:426:GLN:O	2.35	0.50
45:QE:211:ASP:HA	45:QE:214:ARG:HG2	1.93	0.50
46:QL:6:HIS:CD2	46:QL:8:GLN:NE2	2.79	0.50
46:QL:312:THR:HA	46:QL:348:ASN:HB3	1.93	0.50
45:QM:259:LEU:HD13	45:QM:268:MET:HE2	1.94	0.50
46:QN:268:ILE:HG22	46:QN:368:VAL:HG22	1.93	0.50
46:RB:313:ALA:HB1	46:RB:367:PHE:CE1	2.46	0.50
45:RC:224:TYR:HD1	45:RC:227:LEU:HD12	1.76	0.50
46:RD:324:LYS:HZ1	45:RE:214:ARG:HD2	1.76	0.50
45:RE:188:ILE:HG23	45:RE:425:LEU:HD11	1.94	0.50
46:RF:375:GLN:NE2	46:RF:423:GLN:HB3	2.27	0.50
46:RH:54:ALA:HA	46:SH:283:ALA:HB2	1.94	0.50
45:RK:76:ASP:HA	45:RK:79:ARG:HG2	1.94	0.50
46:RL:186:THR:HA	46:RL:189:VAL:HG22	1.93	0.50
46:RL:289:LEU:HD13	46:RL:365:VAL:HG23	1.94	0.50
46:RN:6:HIS:O	46:RN:63:ALA:HA	2.12	0.50
46:SJ:87:PRO:HA	46:SJ:90:PHE:HD2	1.76	0.50
45:TC:82:THR:HG23	45:TC:83:TYR:HD1	1.76	0.50
46:TD:415:MET:HA	46:TD:418:LEU:HG	1.92	0.50
45:UE:195:LEU:O	45:UE:266:HIS:NE2	2.40	0.50
46:UF:10:GLY:O	46:UF:14:ASN:ND2	2.45	0.50
45:UG:390:ARG:HD2	45:UG:391:LEU:HD22	1.94	0.50
46:UH:28:HIS:C	46:UH:43:GLN:HE21	2.20	0.50
46:UL:19:LYS:HD2	46:UL:19:LYS:N	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VA:387:VAL:HG23	45:VA:388:PHE:CD2	2.47	0.50
45:VG:80:THR:O	45:VG:84:ARG:NH2	2.40	0.50
46:VH:54:ALA:HB3	46:VH:58:ARG:HG2	1.93	0.50
46:VJ:67:ASP:O	46:VJ:92:PHE:HA	2.11	0.50
45:VK:356:ASN:OD1	45:VK:357:TYR:N	2.43	0.50
46:VL:309:ARG:NH2	46:VL:426:GLN:O	2.38	0.50
46:WB:67:ASP:OD2	46:WB:72:THR:OG1	2.29	0.50
45:WC:68:LEU:HD23	45:WC:149:LEU:HD21	1.94	0.50
45:WE:172:TYR:HD1	45:WE:173:PRO:HD2	1.75	0.50
45:WE:183:GLU:N	45:WE:184:PRO:HD2	2.27	0.50
46:WH:67:ASP:OD1	46:WH:68:LEU:N	2.44	0.50
46:WH:306:ARG:NH1	46:WH:306:ARG:HB2	2.26	0.50
45:WI:31:GLN:NE2	45:WI:37:PRO:HD3	2.22	0.50
46:WN:150:LEU:HG	46:WN:154:LYS:NZ	2.26	0.50
9:0N:10:TYR:OH	46:IN:52:ASN:OD1	2.28	0.50
11:0S:11:THR:O	11:0S:15:ILE:HG23	2.12	0.50
13:0U:448:HIS:NE2	13:0U:468:SER:HB2	2.26	0.50
16:1B:7:LEU:HA	16:1B:10:ILE:HB	1.93	0.50
3:1C:70:HIS:NE2	3:1C:74:ASP:O	2.45	0.50
19:1J:216:GLN:OE1	19:1J:216:GLN:HA	2.11	0.50
21:1L:302:SER:HA	21:1L:338:GLN:N	2.26	0.50
21:1L:307:ARG:HH21	21:1L:326:LEU:HD11	1.75	0.50
24:1P:161:LEU:O	24:1P:164:THR:OG1	2.30	0.50
12:1T:187:ILE:HG22	12:1T:189:PHE:HD2	1.76	0.50
13:1U:429:VAL:HB	13:1U:446:LYS:HE2	1.94	0.50
13:1U:492:LEU:HB3	13:1U:510:SER:OG	2.12	0.50
16:2B:177:LEU:HD12	16:2B:185:PHE:HD1	1.76	0.50
20:2K:369:ILE:HD11	20:2K:370:LYS:HZ1	1.77	0.50
10:2Q:12:SER:OG	10:2Q:164:ARG:NH2	2.45	0.50
11:2S:46:TRP:HZ3	45:WG:85:GLN:HA	1.77	0.50
14:2V:136:THR:HG23	14:2V:137:ASN:HD22	1.76	0.50
1:3A:128:HIS:HA	46:AN:362:LYS:CE	2.42	0.50
10:3Q:179:PRO:HA	10:3Q:182:LYS:HE2	1.94	0.50
15:4X:57:LYS:O	15:4X:60:GLU:HG3	2.12	0.50
37:5F:45:PRO:C	37:5F:48:ARG:HH22	2.19	0.50
37:5F:126:LEU:HD13	45:OE:285:GLN:NE2	2.27	0.50
34:5R:309:LEU:HD11	34:5R:342:ILE:HG23	1.92	0.50
46:AF:290:THR:HA	46:AF:293:MET:HE2	1.93	0.50
45:AI:201:ALA:HB3	45:AI:267:PHE:HD2	1.76	0.50
46:AJ:60:VAL:HG12	46:AJ:86:ARG:HH11	1.77	0.50
46:AN:192:LEU:HD21	46:AN:199:CYS:SG	2.51	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AN:344:TRP:CD1	46:AN:344:TRP:H	2.29	0.50
46:BB:67:ASP:O	46:BB:92:PHE:HA	2.11	0.50
46:BL:68:LEU:HB3	46:BL:96:GLY:HA2	1.93	0.50
46:BL:105:HIS:CD2	46:BL:150:LEU:HD12	2.47	0.50
46:BL:372:THR:HA	46:BL:422:TYR:HE1	1.76	0.50
45:BM:181:VAL:HG13	45:BM:182:VAL:HG13	1.92	0.50
46:BN:200:MET:HE3	46:BN:268:ILE:HG21	1.93	0.50
45:CA:329:ASN:HA	45:CA:332:ILE:HG22	1.93	0.50
46:CB:211:CYS:HA	46:CB:215:LEU:HB2	1.93	0.50
46:CD:39:ASP:OD1	46:CD:39:ASP:N	2.42	0.50
45:CG:21:TRP:CZ2	45:CG:65:ALA:HB2	2.47	0.50
45:CI:200:VAL:HG13	45:CI:268:MET:HE2	1.94	0.50
45:CK:141:VAL:HG11	45:CK:172:TYR:HA	1.93	0.50
46:CN:237:THR:HG23	46:CN:241:ARG:HH21	1.76	0.50
46:DF:52:ASN:OD1	46:DF:62:ARG:NH2	2.45	0.50
45:DI:288:VAL:HA	45:DI:291:ILE:HG22	1.92	0.50
45:DK:387:VAL:O	45:DK:390:ARG:HG2	2.11	0.50
46:DL:314:SER:HA	46:DL:350:LYS:HB2	1.94	0.50
45:EA:340:THR:HG23	45:EA:341:ILE:HG13	1.92	0.50
46:EF:3:GLU:OE2	46:EF:127:CYS:HB2	2.12	0.50
46:EF:173:PRO:HB3	46:EF:384:GLN:HE22	1.77	0.50
45:EG:118:CYS:O	45:EG:122:ILE:HG12	2.12	0.50
46:EH:213:ARG:NE	46:EH:297:LYS:HZ2	2.09	0.50
45:EI:217:LEU:HD13	45:EI:367:ASP:HB3	1.92	0.50
45:FA:387:VAL:O	45:FA:390:ARG:HG2	2.11	0.50
46:FB:42:LEU:HB3	46:FB:242:PHE:HE1	1.76	0.50
45:FC:223:THR:HG23	45:FC:225:THR:H	1.77	0.50
46:FF:229:VAL:O	46:FF:233:MET:HG3	2.11	0.50
46:FH:318:ARG:HH11	46:FH:358:PRO:HG3	1.77	0.50
45:FI:187:SER:O	45:FI:191:THR:HG23	2.11	0.50
45:FK:396:ASP:OD1	45:FK:422:ARG:NE	2.45	0.50
46:FN:288:GLU:O	46:FN:291:GLN:HG3	2.12	0.50
45:GA:271:SER:HA	45:GA:302:MET:HG2	1.93	0.50
46:GB:133:PHE:HB2	46:GB:164:MET:SD	2.52	0.50
46:GB:272:PRO:HD3	46:GB:364:ALA:HA	1.92	0.50
45:GC:184:PRO:O	45:GC:188:ILE:HG12	2.11	0.50
45:GE:201:ALA:HB3	45:GE:267:PHE:HD1	1.77	0.50
46:GF:269:GLY:HA2	46:GF:300:MET:HE2	1.93	0.50
45:GK:258:ASN:ND2	45:GK:352:LYS:HE3	2.26	0.50
45:HA:188:ILE:HG13	45:HA:425:LEU:HD11	1.94	0.50
46:HD:6:HIS:HE2	46:HD:8:GLN:HB3	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:HF:163:ILE:CD1	46:HF:250:LEU:HD11	2.41	0.50
46:HL:268:ILE:HG22	46:HL:368:VAL:HG22	1.94	0.50
46:HL:329:GLN:O	46:HL:333:VAL:HG23	2.12	0.50
45:HM:183:GLU:N	45:HM:184:PRO:HD2	2.27	0.50
45:IA:55:GLU:HG3	45:IA:57:GLY:H	1.76	0.50
45:IC:268:MET:N	45:IC:268:MET:SD	2.85	0.50
46:IH:47:ILE:HD12	46:IH:59:TYR:CE1	2.47	0.50
46:IH:290:THR:HA	46:IH:293:MET:HG2	1.92	0.50
46:IL:201:VAL:O	46:IL:202:ILE:HD13	2.10	0.50
46:IN:208:TYR:CE2	46:IN:225:LEU:HD11	2.46	0.50
46:JF:101:TRP:CE3	46:JF:187:LEU:HD23	2.47	0.50
46:JF:309:ARG:NH2	46:JF:426:GLN:O	2.36	0.50
45:JI:70:LEU:HA	45:JI:95:GLY:HA3	1.94	0.50
45:JK:319:TYR:HB3	45:JK:323:VAL:HG21	1.94	0.50
45:JM:20:CYS:HA	45:JM:232:ALA:HB1	1.93	0.50
45:KA:239:THR:HG22	45:KA:243:ARG:HE	1.77	0.50
46:KD:285:THR:HB	46:KD:287:PRO:HD2	1.94	0.50
45:KG:222:PRO:HD2	46:KH:324:LYS:CE	2.25	0.50
46:KL:284:LEU:HD11	46:KL:362:LYS:HB2	1.94	0.50
45:KM:318:MET:HB2	45:KM:376:CYS:HG	1.75	0.50
46:KN:67:ASP:O	46:KN:92:PHE:HA	2.12	0.50
46:KN:165:GLU:OE2	46:KN:250:LEU:HD13	2.12	0.50
46:LD:86:ARG:NE	46:LD:87:PRO:HD2	2.27	0.50
45:LG:208:ALA:O	45:LG:212:ILE:HG12	2.11	0.50
46:LJ:7:ILE:HG22	46:LJ:64:ILE:HB	1.94	0.50
46:LN:198:GLU:OE2	46:LN:254:ALA:HB2	2.11	0.50
45:MA:184:PRO:O	45:MA:188:ILE:HG12	2.12	0.50
46:MB:73:MET:HE1	46:MB:92:PHE:HB3	1.93	0.50
46:MF:103:LYS:HD2	46:MF:107:THR:HG21	1.93	0.50
45:MI:282:TYR:OH	45:MI:370:LYS:O	2.27	0.50
45:MK:419:SER:O	45:MK:423:GLU:HG2	2.12	0.50
45:MM:265:ILE:HG22	45:MM:432:TYR:HE1	1.76	0.50
46:NB:117:LEU:O	46:NB:121:ARG:HG3	2.12	0.50
46:NB:316:LEU:HB2	46:NB:366:THR:HG22	1.93	0.50
45:NE:250:VAL:HG13	45:NE:254:GLU:HB2	1.93	0.50
45:NG:133:GLN:O	45:NG:165:SER:OG	2.28	0.50
45:NG:136:LEU:HD23	45:NG:167:LEU:HB2	1.93	0.50
46:NJ:33:THR:O	46:NJ:58:ARG:NH2	2.45	0.50
45:NK:231:ILE:O	45:NK:235:ILE:HG12	2.12	0.50
45:OC:430:LYS:HA	45:OC:433:GLU:HG2	1.93	0.50
45:OE:88:HIS:O	45:OE:91:GLN:HG2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OG:220:GLU:OE2	45:OG:221:ARG:HG2	2.12	0.50
45:OG:221:ARG:HA	46:OH:324:LYS:HZ1	1.76	0.50
45:PA:223:THR:HG23	45:PA:225:THR:H	1.76	0.50
46:PB:309:ARG:NH2	46:PB:426:GLN:O	2.37	0.50
45:PC:96:LYS:HG3	46:PD:129:CYS:SG	2.52	0.50
45:PC:241:SER:OG	45:PC:250:VAL:O	2.28	0.50
46:PH:273:LEU:H	46:PH:292:GLN:NE2	2.07	0.50
45:PI:67:PHE:HB2	45:PI:92:LEU:HD13	1.94	0.50
45:PI:221:ARG:HE	45:PI:221:ARG:HA	1.77	0.50
45:PK:319:TYR:HB3	45:PK:323:VAL:HG11	1.93	0.50
46:PL:287:PRO:HG3	46:PL:329:GLN:HE22	1.77	0.50
46:QD:16:ILE:HD13	46:QD:226:ASN:OD1	2.12	0.50
46:QF:54:ALA:HA	46:RF:283:ALA:HB2	1.93	0.50
45:QI:185:TYR:CZ	45:QI:398:MET:HE1	2.46	0.50
46:QL:183:TYR:CE1	46:QL:388:MET:HE3	2.46	0.50
46:QL:322:SER:OG	45:QM:221:ARG:NH1	2.44	0.50
46:QN:65:LEU:HD22	46:QN:90:PHE:HE1	1.76	0.50
46:RD:323:THR:HG1	45:RE:210:TYR:HH	1.57	0.50
45:RE:12:GLY:HA2	45:RE:15:GLN:HE21	1.76	0.50
45:RE:188:ILE:HD12	45:RE:425:LEU:HD11	1.92	0.50
46:RH:117:LEU:HD11	46:RH:154:LYS:HZ2	1.76	0.50
46:RH:258:ILE:O	46:RH:258:ILE:HG13	2.12	0.50
46:RL:272:PRO:HD3	46:RL:364:ALA:HA	1.93	0.50
46:RL:321:MET:HE2	46:RL:363:MET:HG3	1.93	0.50
45:SA:291:ILE:HD11	45:SA:319:TYR:HE1	1.76	0.50
45:SC:260:VAL:HG13	45:SC:265:ILE:O	2.12	0.50
45:SG:371:VAL:HG22	45:SG:373:ARG:H	1.77	0.50
46:SJ:183:TYR:HA	46:SJ:385:PHE:HE1	1.77	0.50
45:SK:367:ASP:N	45:SK:367:ASP:OD1	2.45	0.50
46:TD:321:MET:HB2	45:TE:221:ARG:HH21	1.74	0.50
46:TH:133:PHE:HB2	46:TH:164:MET:SD	2.52	0.50
46:TJ:320:ARG:HD3	46:TJ:355:ASP:HB3	1.94	0.50
45:TK:340:THR:HG23	45:TK:341:ILE:HG13	1.94	0.50
46:TL:128:ASP:OD1	46:TL:129:CYS:N	2.40	0.50
46:TL:334:GLN:HG3	46:TL:341:PHE:HD2	1.77	0.50
46:UD:208:TYR:CE2	46:UD:225:LEU:HD11	2.47	0.50
46:UD:324:LYS:CD	45:UE:222:PRO:HG2	2.40	0.50
45:UE:11:GLN:H	47:UE:501:GTP:PB	2.34	0.50
45:UG:215:ARG:NH2	45:UG:299:ALA:O	2.43	0.50
45:UI:32:PRO:HB3	45:UI:83:TYR:HE1	1.77	0.50
45:UI:226:ASN:ND2	45:UI:367:ASP:OD2	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UM:430:LYS:O	45:UM:434:GLU:OE1	2.29	0.50
46:UN:201:VAL:HG23	46:UN:301:CYS:SG	2.52	0.50
45:VC:244:PHE:HB2	45:VC:356:ASN:HD21	1.77	0.50
46:VH:113:ILE:HD13	46:VH:150:LEU:HD22	1.92	0.50
45:VI:244:PHE:HB2	45:VI:356:ASN:HD21	1.76	0.50
45:VI:265:ILE:HG22	45:VI:380:ASN:HD21	1.77	0.50
45:VK:261:PRO:CD	45:VK:262:TYR:N	2.74	0.50
45:VK:348:PRO:HD3	46:VN:388:MET:CE	2.41	0.50
46:VL:24:ILE:HA	46:VL:27:GLU:OE2	2.11	0.50
46:VL:399:THR:HA	46:VL:403:MET:HB2	1.94	0.50
45:VM:185:TYR:CZ	45:VM:398:MET:HE2	2.46	0.50
46:VN:122:LYS:HA	46:VN:125:GLU:HG2	1.93	0.50
46:WD:116:VAL:HA	46:WD:119:VAL:HG22	1.92	0.50
46:WD:208:TYR:CE1	46:WD:225:LEU:HD11	2.47	0.50
46:WD:286:VAL:HG23	46:WD:287:PRO:HD3	1.94	0.50
45:WE:328:VAL:O	45:WE:332:ILE:HG12	2.11	0.50
46:WF:132:GLY:HA3	46:WF:163:ILE:O	2.11	0.50
46:WF:325:GLU:O	46:WF:329:GLN:HB2	2.12	0.50
46:WH:6:HIS:NE2	46:WH:8:GLN:OE1	2.44	0.50
46:WH:121:ARG:O	46:WH:125:GLU:HG2	2.12	0.50
45:WM:175:PRO:C	45:WM:390:ARG:HH12	2.20	0.50
2:0B:66:ASP:O	2:0B:67:THR:OG1	2.17	0.50
2:0B:160:LYS:C	9:1N:31:LYS:HE3	2.37	0.50
4:0D:40:GLY:O	45:DC:79:ARG:NH1	2.45	0.50
5:0E:52:LEU:HB3	5:0E:57:VAL:HB	1.93	0.50
7:0G:115:PRO:HA	7:0G:118:GLN:OE1	2.12	0.50
1:1A:125:LEU:H	46:AF:279:GLN:HE22	1.60	0.50
3:1C:80:ARG:HH22	46:EL:360:GLY:H	1.60	0.50
8:1H:288:ARG:HA	8:1H:291:ARG:HD2	1.93	0.50
19:1J:181:GLY:N	45:IG:221:ARG:O	2.37	0.50
21:1L:199:ASP:OD1	21:1L:200:ASN:N	2.44	0.50
21:1L:563:PHE:O	21:1L:567:ILE:HG12	2.12	0.50
23:1O:202:GLU:O	23:1O:205:GLU:HG3	2.11	0.50
24:1P:270:ILE:O	24:1P:274:ILE:HG12	2.12	0.50
24:1P:302:LYS:HZ2	46:TD:362:LYS:HG2	1.75	0.50
13:1U:432:TRP:CE3	13:1U:441:MET:HB3	2.47	0.50
31:2I:38:SER:OG	45:FG:95:GLY:O	2.27	0.50
20:2K:253:LYS:HA	20:2K:256:GLN:NE2	2.26	0.50
24:2P:406:TYR:O	24:2P:410:TRP:HE3	1.95	0.50
11:2S:35:LEU:HD23	11:2S:36:ALA:H	1.77	0.50
1:3A:66:LYS:HA	1:3A:66:LYS:HE2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:3R:300:LYS:HZ1	46:CL:79:GLY:HA2	1.74	0.50
25:3R:448:VAL:HG21	25:3R:464:LEU:HD12	1.94	0.50
27:4C:3:LEU:HD12	27:4C:3:LEU:O	2.12	0.50
27:4C:217:ILE:HG22	27:4C:263:ILE:HD13	1.93	0.50
10:4Q:15:TYR:O	10:4Q:21:PRO:HB3	2.12	0.50
35:4S:166:GLN:OE1	35:4S:224:ILE:HD13	2.12	0.50
10:5Q:9:GLY:C	10:5Q:10:PHE:HD1	2.19	0.50
34:5R:246:GLN:HG3	45:BI:58:ALA:HB1	1.94	0.50
34:5R:285:THR:C	34:5R:306:ARG:HH22	2.20	0.50
34:5R:508:ALA:HB3	34:5R:513:HIS:NE2	2.26	0.50
34:5R:542:TYR:HD2	34:5R:548:PHE:HA	1.77	0.50
35:5S:183:TYR:HD1	35:5S:187:LEU:HD21	1.76	0.50
41:6H:204:LEU:O	41:6H:204:LEU:HD12	2.11	0.50
34:6R:353:ASP:OD1	34:6R:356:THR:OG1	2.14	0.50
34:6R:426:PHE:HE1	34:6R:512:THR:HG21	1.76	0.50
46:AB:48:ASN:O	46:AB:62:ARG:NH2	2.45	0.50
46:AB:268:ILE:HG13	46:AB:300:MET:HE2	1.94	0.50
46:AB:376:GLU:HG3	46:AB:380:ARG:HH12	1.76	0.50
46:AJ:174:LYS:HE2	46:AJ:205:GLU:OE2	2.12	0.50
46:AL:178:THR:HG22	46:AL:180:VAL:H	1.77	0.50
45:BA:2:ARG:HA	45:BA:133:GLN:HE22	1.77	0.50
45:BE:398:MET:HG2	46:BF:345:ILE:HG22	1.93	0.50
45:BK:111:GLY:O	45:BK:115:VAL:HG13	2.12	0.50
45:BK:217:LEU:HB3	45:BK:219:ILE:CD1	2.42	0.50
45:BM:221:ARG:NH2	46:BN:321:MET:HB3	2.27	0.50
45:CA:183:GLU:N	45:CA:184:PRO:HD2	2.27	0.50
46:CD:186:THR:HA	46:CD:189:VAL:HG12	1.93	0.50
46:CF:30:ILE:HD11	46:CF:47:ILE:HD11	1.94	0.50
45:CI:184:PRO:O	45:CI:188:ILE:HG12	2.11	0.50
46:CJ:30:ILE:HD11	46:CJ:47:ILE:HD11	1.94	0.50
46:DD:170:VAL:HG21	46:DD:377:MET:HE1	1.94	0.50
45:DE:21:TRP:CZ3	45:DE:63:PRO:HB3	2.47	0.50
45:DE:223:THR:HG23	45:DE:225:THR:H	1.76	0.50
46:DJ:208:TYR:CE1	46:DJ:225:LEU:HD11	2.46	0.50
45:DK:36:MET:SD	45:DK:37:PRO:HD2	2.51	0.50
46:DL:189:VAL:HA	46:DL:192:LEU:HB3	1.94	0.50
46:DL:312:THR:HG22	46:DL:370:ASN:HB3	1.93	0.50
46:EB:240:LEU:HD21	46:EB:249:ASP:HA	1.94	0.50
45:EE:98:ASP:O	45:EE:105:ARG:NH1	2.45	0.50
45:EE:135:PHE:HB2	45:EE:166:LYS:HG2	1.92	0.50
45:EI:141:VAL:HG11	45:EI:172:TYR:CD1	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FF:165:GLU:HG2	46:FF:198:GLU:HB2	1.94	0.50
45:FI:347:CYS:HA	46:FL:388:MET:HE1	1.93	0.50
45:FK:259:LEU:HD21	45:FK:316:SER:HB2	1.93	0.50
45:GC:336:LYS:O	45:GC:339:ARG:NH2	2.45	0.50
45:GI:192:HIS:HD2	45:GI:421:ALA:HA	1.76	0.50
46:GJ:390:ARG:CZ	46:GJ:390:ARG:HA	2.41	0.50
45:GK:107:HIS:ND1	45:GK:107:HIS:O	2.45	0.50
45:HC:17:GLY:HA2	45:HC:20:CYS:SG	2.52	0.50
45:HC:387:VAL:HG12	45:HC:390:ARG:NH1	2.27	0.50
45:HE:398:MET:HE2	46:HF:346:PRO:HD2	1.94	0.50
45:HE:407:TRP:CZ2	46:HF:258:ILE:HD11	2.47	0.50
45:HI:210:TYR:CE1	46:HJ:324:LYS:HE3	2.47	0.50
46:HJ:8:GLN:OE1	46:HJ:17:GLY:HA3	2.11	0.50
45:HK:183:GLU:N	45:HK:184:PRO:HD2	2.25	0.50
45:HK:248:LEU:HB3	45:HK:355:ILE:HG22	1.94	0.50
46:IH:344:TRP:HB3	46:IH:430:ALA:HB2	1.92	0.50
45:II:133:GLN:HB3	45:II:252:ILE:HG21	1.94	0.50
45:II:183:GLU:N	45:II:184:PRO:HD2	2.27	0.50
45:IM:296:PHE:CE2	45:IM:335:ILE:HG13	2.47	0.50
45:JA:88:HIS:HB3	45:JA:91:GLN:HG2	1.93	0.50
46:JD:141:GLY:O	46:JD:145:SER:OG	2.21	0.50
46:JF:152:ILE:HG23	46:JF:164:MET:SD	2.52	0.50
45:JG:26:LEU:HD11	45:JG:364:PRO:HD2	1.93	0.50
45:JM:389:SER:O	45:JM:393:HIS:ND1	2.45	0.50
46:JN:350:LYS:HD3	46:JN:351:SER:N	2.26	0.50
45:KG:17:GLY:HA2	45:KG:20:CYS:SG	2.52	0.50
45:KG:318:MET:HB2	45:KG:376:CYS:SG	2.52	0.50
45:KG:439:THR:HG22	46:KJ:391:ARG:HD3	1.93	0.50
45:KI:287:SER:H	45:KI:290:GLU:CD	2.19	0.50
46:KJ:9:GLY:HA3	46:KJ:66:MET:SD	2.52	0.50
46:KJ:167:PHE:HD2	46:KJ:202:ILE:HD11	1.76	0.50
45:LM:392:ASP:OD2	45:LM:422:ARG:NH1	2.45	0.50
45:MA:260:VAL:O	46:MD:397:TRP:HH2	1.95	0.50
45:MC:183:GLU:N	45:MC:184:PRO:HD2	2.27	0.50
46:MF:11:GLN:HE21	49:MF:501:GDP:PA	2.35	0.50
46:MJ:22:GLU:HG2	46:MJ:81:PHE:CD2	2.47	0.50
46:MJ:396:HIS:HA	46:MJ:399:THR:OG1	2.12	0.50
45:NC:195:LEU:O	45:NC:266:HIS:NE2	2.38	0.50
46:NN:47:ILE:HG22	46:NN:51:TYR:HB2	1.93	0.50
46:NN:372:THR:HA	46:NN:422:TYR:CE1	2.45	0.50
46:NN:415:MET:HE3	46:NN:415:MET:HA	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OA:101:ASN:HA	45:OA:144:GLY:N	2.27	0.50
45:OE:52:PHE:CZ	45:OE:239:THR:HG21	2.46	0.50
46:OF:200:MET:CE	46:OF:268:ILE:HG23	2.42	0.50
45:OG:7:ILE:HD13	45:OG:153:LEU:HD21	1.94	0.50
46:OH:148:GLY:O	46:OH:152:ILE:HG12	2.12	0.50
45:OI:9:VAL:HG13	45:OI:139:ASN:HB3	1.93	0.50
45:OI:153:LEU:O	45:OI:157:LEU:HD23	2.11	0.50
46:OJ:304:ASP:HB3	46:OJ:307:HIS:ND1	2.26	0.50
46:OL:296:ALA:HB3	46:OL:306:ARG:CZ	2.42	0.50
46:PB:28:HIS:C	46:PB:43:GLN:HE21	2.18	0.50
45:PC:96:LYS:HE3	46:PD:129:CYS:SG	2.52	0.50
45:PC:223:THR:C	46:PD:324:LYS:HZ1	2.20	0.50
46:PD:148:GLY:O	46:PD:152:ILE:HG13	2.12	0.50
46:PD:294:PHE:HD2	46:PD:333:VAL:HG21	1.77	0.50
45:PI:194:LEU:O	45:PI:198:THR:HG22	2.11	0.50
46:PL:8:GLN:HG3	46:PL:14:ASN:ND2	2.27	0.50
46:PL:173:PRO:HD2	46:PL:174:LYS:HZ3	1.77	0.50
46:PN:16:ILE:HD13	46:PN:226:ASN:OD1	2.12	0.50
45:QC:208:ALA:O	45:QC:212:ILE:HG12	2.11	0.50
45:QG:239:THR:HG23	45:QG:243:ARG:HH21	1.76	0.50
46:QH:399:THR:HA	46:QH:403:MET:HB2	1.92	0.50
45:QI:278:ALA:HA	45:QI:369:ALA:HB2	1.94	0.50
45:QI:311:LYS:O	45:QI:381:SER:OG	2.21	0.50
45:RA:239:THR:OG1	45:RA:243:ARG:NH2	2.42	0.50
46:RB:67:ASP:O	46:RB:92:PHE:HA	2.12	0.50
46:RB:113:ILE:HG12	46:RB:117:LEU:HG	1.94	0.50
46:RD:10:GLY:O	46:RD:14:ASN:ND2	2.45	0.50
46:RF:66:MET:HA	46:RF:91:VAL:HG23	1.94	0.50
46:RF:312:THR:HG22	46:RF:370:ASN:HB3	1.92	0.50
45:RG:60:LYS:HD2	45:SG:283:HIS:HA	1.93	0.50
45:RI:87:PHE:HD2	45:RI:92:LEU:HD21	1.76	0.50
45:SC:109:THR:HG22	45:SC:110:ILE:HG23	1.93	0.50
45:SK:396:ASP:HA	45:SK:422:ARG:HH22	1.76	0.50
46:TB:318:ARG:HG2	46:TB:357:PRO:HA	1.94	0.50
46:TD:87:PRO:HA	46:TD:90:PHE:CD2	2.47	0.50
46:TF:164:MET:H	46:TF:197:ASP:HB2	1.76	0.50
45:TI:55:GLU:HG3	45:TI:57:GLY:H	1.77	0.50
46:TL:21:TRP:CZ3	46:TL:61:PRO:HB3	2.46	0.50
45:TM:60:LYS:HE3	45:UM:283:HIS:HA	1.93	0.50
45:TM:229:ARG:HH21	45:TM:368:LEU:HB3	1.76	0.50
46:TN:309:ARG:NH2	46:TN:426:GLN:O	2.37	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UA:317:MET:HE2	45:UA:319:TYR:CE1	2.47	0.50
46:UB:287:PRO:HG3	46:UB:329:GLN:NE2	2.26	0.50
45:UC:36:MET:SD	45:UC:61:HIS:NE2	2.82	0.50
46:UD:229:VAL:O	46:UD:233:MET:HG2	2.12	0.50
45:UE:172:TYR:HD2	45:UE:173:PRO:HD2	1.77	0.50
45:UE:221:ARG:N	45:UE:222:PRO:HD3	2.27	0.50
46:UF:324:LYS:HG2	45:UG:221:ARG:NH2	2.27	0.50
45:UI:156:ARG:NE	45:UI:156:ARG:HA	2.27	0.50
46:UL:304:ASP:HB3	46:UL:307:HIS:ND1	2.26	0.50
45:UM:431:ASP:O	45:UM:435:VAL:HG22	2.12	0.50
45:VA:317:MET:HB3	45:VA:319:TYR:CE2	2.47	0.50
46:VH:370:ASN:OD1	46:VH:422:TYR:OH	2.28	0.50
45:VI:268:MET:HB2	45:VI:379:SER:O	2.11	0.50
45:VM:221:ARG:HH22	46:VN:321:MET:HB2	1.76	0.50
45:WA:67:PHE:HB2	45:WA:92:LEU:HD13	1.93	0.50
45:WA:172:TYR:HD1	45:WA:173:PRO:HD2	1.77	0.50
45:WC:221:ARG:NH2	46:WD:321:MET:HB3	2.27	0.50
46:WD:337:ASN:OD1	46:WD:340:TYR:HB2	2.12	0.50
45:WE:70:LEU:O	46:WF:2:ARG:NH2	2.44	0.50
45:WG:29:GLY:O	45:WG:40:LYS:NZ	2.32	0.50
45:WI:98:ASP:OD1	45:WI:99:ALA:N	2.44	0.50
45:WI:234:VAL:HG21	45:WI:302:MET:HE3	1.94	0.50
45:WK:21:TRP:CZ2	45:WK:65:ALA:HB2	2.47	0.50
45:WK:287:SER:O	45:WK:291:ILE:HG12	2.12	0.50
2:0B:148:PRO:HB3	29:2G:70:VAL:HG11	1.92	0.50
2:0B:233:ASN:O	2:0B:235:SER:N	2.45	0.50
6:0F:2:ASN:HA	6:0F:5:GLN:NE2	2.27	0.50
11:0S:35:LEU:HD12	11:0S:129:ILE:HG23	1.94	0.50
12:0T:196:VAL:HG22	12:0T:201:LEU:HD13	1.93	0.50
15:0X:33:ALA:HB1	15:1X:140:PRO:HG3	1.93	0.50
1:1A:26:PHE:HD1	15:1X:76:GLU:OE2	1.95	0.50
16:1B:43:ARG:NH2	16:1B:45:GLU:HB3	2.27	0.50
4:1D:31:LYS:NZ	4:1D:32:GLN:H	2.10	0.50
4:1D:220:ILE:HB	4:1D:221:PRO:CD	2.42	0.50
7:1G:164:PRO:HD3	45:KA:245:ASP:OD2	2.11	0.50
8:1H:180:MET:HA	8:1H:183:GLU:CD	2.37	0.50
18:1I:152:LYS:HG2	18:1I:153:GLU:H	1.77	0.50
21:1L:48:GLU:HA	21:1L:51:TYR:HD1	1.76	0.50
9:1N:247:GLN:HA	46:KJ:74:ASP:OD1	2.12	0.50
9:1N:428:HIS:ND1	9:1N:429:PRO:HD2	2.27	0.50
23:1O:159:GLN:O	23:1O:162:GLU:HG3	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:1P:307:LYS:HD3	24:1P:310:LYS:HZ2	1.77	0.50
24:1P:328:GLU:HB3	24:1P:332:LYS:NZ	2.27	0.50
24:1P:365:GLU:HG2	46:TB:359:LYS:HE2	1.94	0.50
10:1Q:36:ARG:CZ	35:4S:204:ILE:HG23	2.41	0.50
11:1S:7:GLN:HB2	11:1S:194:TYR:HE2	1.77	0.50
11:1S:246:GLU:HA	11:1S:249:VAL:HG23	1.94	0.50
11:1S:303:PHE:CE1	11:1S:315:SER:HB2	2.47	0.50
12:1T:215:ASN:O	12:1T:216:LYS:HG3	2.11	0.50
13:1U:513:LYS:HG2	13:1U:528:LEU:HA	1.94	0.50
27:2C:123:HIS:HA	27:2C:164:LEU:HD22	1.93	0.50
31:2I:138:VAL:HG22	46:GD:337:ASN:OD1	2.11	0.50
21:2L:369:GLN:O	21:2L:372:THR:N	2.43	0.50
9:2N:249:LEU:HD21	46:KB:90:PHE:CD1	2.47	0.50
23:2O:443:ARG:O	23:2O:446:LEU:HG	2.11	0.50
12:2T:231:GLU:HA	12:2T:234:ASN:HB2	1.93	0.50
13:2U:458:LYS:HZ2	13:2U:460:ASN:HB3	1.76	0.50
26:2W:190:VAL:HG11	26:2W:195:TRP:CD1	2.47	0.50
21:3L:168:HIS:HA	21:3L:207:ASN:HA	1.94	0.50
12:3T:62:VAL:HB	12:3T:148:CYS:HB2	1.93	0.50
10:4Q:10:PHE:HA	10:4Q:167:PHE:O	2.12	0.50
34:4R:315:MET:O	46:CF:359:LYS:NZ	2.45	0.50
10:6Q:35:LYS:O	10:6Q:48:GLU:HG3	2.12	0.50
34:6R:318:TYR:HB3	34:6R:321:MET:HB3	1.94	0.50
46:AB:262:ARG:NH2	46:AB:425:TYR:OH	2.45	0.50
46:AD:97:ALA:HA	46:AD:103:LYS:HD2	1.93	0.50
45:AI:340:THR:HG23	45:AI:341:ILE:HG13	1.93	0.50
46:AL:156:ARG:NH2	46:AL:197:ASP:OD2	2.44	0.50
45:AM:208:ALA:O	45:AM:212:ILE:HG12	2.11	0.50
45:BA:105:ARG:NH2	45:BA:411:GLU:HB3	2.27	0.50
46:BB:42:LEU:HA	46:BB:45:GLU:HG3	1.92	0.50
45:BC:115:VAL:HG11	45:BC:152:LEU:HD23	1.93	0.50
46:BF:406:MET:HA	46:BF:406:MET:HE2	1.94	0.50
46:BJ:139:LEU:HD13	46:BJ:168:SER:HB3	1.94	0.50
45:BK:183:GLU:N	45:BK:184:PRO:HD2	2.27	0.50
45:CA:256:GLN:NE2	45:CA:257:THR:HG23	2.27	0.50
45:CC:136:LEU:HD13	45:CC:167:LEU:HB2	1.94	0.50
46:CD:345:ILE:HA	45:CE:398:MET:HE1	1.94	0.50
46:CF:19:LYS:NZ	46:CF:227:HIS:HB2	2.27	0.50
45:CK:108:TYR:CE2	45:CK:413:MET:HE3	2.47	0.50
45:CM:208:ALA:HB2	45:CM:304:LYS:HG3	1.93	0.50
45:DA:387:VAL:HA	45:DA:390:ARG:HG2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DF:105:HIS:CE1	46:DF:150:LEU:HD13	2.47	0.50
46:DL:252:LYS:O	46:DL:256:ASN:CB	2.58	0.50
46:DN:87:PRO:HA	46:DN:90:PHE:HD2	1.77	0.50
46:DN:135:ILE:HG13	46:DN:152:ILE:HD11	1.94	0.50
45:EA:183:GLU:N	45:EA:184:PRO:HD2	2.27	0.50
46:ED:107:THR:HG1	46:ED:108:GLU:CD	2.19	0.50
46:ED:405:GLU:HA	46:ED:408:PHE:HD2	1.76	0.50
46:EF:381:VAL:HG13	46:EF:415:MET:HE1	1.93	0.50
46:EH:139:LEU:HD22	46:EH:170:VAL:HG12	1.93	0.50
45:EI:377:MET:SD	45:EI:379:SER:HB3	2.52	0.50
45:FA:126:ALA:HB1	45:FA:132:LEU:HD21	1.94	0.50
46:FH:3:GLU:OE1	46:FH:3:GLU:N	2.41	0.50
46:FJ:230:SER:HA	46:FJ:233:MET:HE3	1.94	0.50
45:FK:222:PRO:HD2	46:FL:324:LYS:CD	2.37	0.50
46:GB:58:ARG:HH22	46:GB:86:ARG:NH1	2.09	0.50
46:GB:362:LYS:O	46:GB:363:MET:HE2	2.12	0.50
45:GC:21:TRP:CZ2	45:GC:65:ALA:HB2	2.46	0.50
46:GD:73:MET:HA	46:GD:76:VAL:HG12	1.94	0.50
46:GL:147:MET:HE3	46:GL:150:LEU:HB3	1.94	0.50
45:GM:55:GLU:HG3	45:GM:57:GLY:H	1.77	0.50
45:HC:268:MET:HG2	45:HC:378:ILE:HD11	1.93	0.50
46:HN:178:THR:HB	46:HN:181:GLU:HG3	1.93	0.50
45:IE:141:VAL:HG11	45:IE:172:TYR:HD1	1.77	0.50
45:II:167:LEU:HG	45:II:200:VAL:HB	1.93	0.50
45:IK:268:MET:N	45:IK:268:MET:SD	2.85	0.50
46:IL:180:VAL:HG12	46:IL:180:VAL:O	2.12	0.50
46:JB:275:SER:O	46:JB:279:GLN:HG3	2.12	0.50
45:JG:211:ASP:HB3	45:JG:215:ARG:HH22	1.77	0.50
46:JH:156:ARG:NH2	46:JH:197:ASP:OD1	2.45	0.50
45:KA:312:TYR:C	45:KA:313:MET:HE2	2.37	0.50
46:KB:77:ARG:NH1	46:KB:82:GLY:O	2.45	0.50
46:KD:200:MET:HG3	46:KD:266:PHE:HB2	1.92	0.50
45:KG:309:HIS:HA	45:NG:282:TYR:HE2	1.77	0.50
45:KG:387:VAL:HG12	45:KG:390:ARG:HH22	1.76	0.50
45:LE:167:LEU:HG	45:LE:200:VAL:HB	1.94	0.50
46:LL:74:ASP:HA	46:LL:77:ARG:NE	2.26	0.50
46:MH:131:GLN:HE22	46:MH:250:LEU:HB2	1.77	0.50
45:MI:353:VAL:HG12	46:ML:177:ASP:HB2	1.94	0.50
45:NC:76:ASP:HB3	45:NC:79:ARG:HH21	1.77	0.50
45:NC:226:ASN:ND2	45:NC:367:ASP:OD2	2.45	0.50
45:NG:297:GLU:HB3	45:NG:300:ASN:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:NL:203:ASP:HB2	46:NL:301:CYS:HA	1.93	0.50
46:OB:203:ASP:O	46:OB:207:LEU:HG	2.12	0.50
46:OD:289:LEU:O	46:OD:293:MET:HG3	2.12	0.50
45:OG:203:MET:HG3	45:OG:384:ILE:HD11	1.94	0.50
45:OM:164:LYS:O	45:OM:166:LYS:NZ	2.35	0.50
45:PA:319:TYR:CE2	45:PA:328:VAL:HG22	2.46	0.50
46:PH:318:ARG:HH11	46:PH:358:PRO:HG3	1.77	0.50
46:PJ:3:GLU:CD	46:PJ:3:GLU:H	2.20	0.50
46:PJ:293:MET:HG2	46:PJ:365:VAL:HG11	1.94	0.50
46:PL:16:ILE:HD12	46:PL:229:VAL:HG11	1.93	0.50
45:PM:313:MET:HE3	45:PM:382:THR:HG22	1.94	0.50
45:QE:331:SER:O	45:QE:335:ILE:HG23	2.11	0.50
46:QF:173:PRO:HG2	46:QF:380:ARG:HD3	1.94	0.50
45:QG:52:PHE:HZ	45:QG:239:THR:HG21	1.76	0.50
46:QL:63:ALA:O	46:QL:89:ASN:ND2	2.44	0.50
46:QL:86:ARG:HH11	46:RL:282:ARG:NH1	2.09	0.50
46:QL:240:LEU:HD21	46:QL:249:ASP:HB3	1.94	0.50
46:QL:290:THR:HA	46:QL:293:MET:HG2	1.94	0.50
45:QM:56:THR:HG23	45:QM:58:ALA:H	1.77	0.50
46:RB:20:PHE:CD2	46:RB:233:MET:HE1	2.46	0.50
45:RE:329:ASN:HA	45:RE:332:ILE:HG12	1.93	0.50
46:RF:375:GLN:HG3	46:RF:419:VAL:HG13	1.93	0.50
46:RH:199:CYS:O	46:RH:200:MET:HE2	2.12	0.50
45:SA:288:VAL:HG11	45:SA:327:ASP:HB3	1.92	0.50
46:SB:51:TYR:HB3	46:SB:59:TYR:HB3	1.94	0.50
46:SB:382:ALA:HB2	46:SB:415:MET:HE2	1.92	0.50
46:SD:6:HIS:HE1	46:SD:8:GLN:HG3	1.76	0.50
46:SD:6:HIS:CE1	46:SD:8:GLN:HG3	2.47	0.50
46:SD:407:GLU:HA	46:SD:410:GLU:OE2	2.12	0.50
46:SD:408:PHE:O	46:SD:412:GLU:OE1	2.29	0.50
45:SE:174:SER:OG	45:SE:207:GLU:HB2	2.12	0.50
45:SE:261:PRO:HB3	45:SE:346:TRP:HH2	1.76	0.50
46:SF:247:ASN:OD1	45:SG:11:GLN:NE2	2.44	0.50
46:SF:255:VAL:HA	45:SG:407:TRP:CZ3	2.46	0.50
46:SJ:42:LEU:HD12	46:SJ:42:LEU:H	1.77	0.50
46:SL:106:TYR:HE2	46:SL:403:MET:HB2	1.77	0.50
46:SL:293:MET:HE3	46:SL:299:MET:HE1	1.93	0.50
46:TB:310:TYR:HA	46:TB:371:SER:HA	1.93	0.50
45:TE:402:ARG:HH22	45:TE:406:HIS:HB3	1.76	0.50
46:TF:84:LEU:O	46:TF:86:ARG:NH2	2.44	0.50
46:TF:309:ARG:NH2	46:TF:426:GLN:O	2.34	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TI:118:CYS:O	45:TI:122:ILE:HG12	2.12	0.50
45:TK:33:ASP:HA	45:TK:85:GLN:HE21	1.76	0.50
46:TL:31:ASP:OD2	46:TL:33:THR:OG1	2.30	0.50
46:TL:167:PHE:CE2	46:TL:233:MET:HG2	2.46	0.50
46:UH:276:ARG:NH2	46:UH:277:GLY:HA2	2.27	0.50
45:UI:156:ARG:HA	45:UI:156:ARG:HE	1.76	0.50
45:UI:203:MET:N	45:UI:203:MET:HE2	2.27	0.50
46:UJ:58:ARG:HH21	46:UJ:83:GLN:HE22	1.58	0.50
46:VD:45:GLU:C	46:VD:46:ARG:HD2	2.36	0.50
46:VH:326:VAL:O	46:VH:330:MET:HG2	2.11	0.50
46:VL:97:ALA:HB3	46:VL:143:THR:HB	1.94	0.50
45:VM:183:GLU:N	45:VM:184:PRO:HD2	2.26	0.50
45:WA:116:ASP:OD1	45:WA:117:LEU:HD12	2.12	0.50
45:WA:223:THR:HG23	45:WA:225:THR:H	1.77	0.50
46:WB:309:ARG:NH1	46:WB:343:GLU:OE1	2.45	0.50
45:WC:183:GLU:N	45:WC:184:PRO:HD2	2.27	0.50
45:WE:259:LEU:HD13	45:WE:268:MET:HE1	1.94	0.50
46:WH:67:ASP:HB3	46:WH:73:MET:HE2	1.93	0.50
45:WI:256:GLN:O	46:WL:397:TRP:NE1	2.45	0.50
45:WK:115:VAL:HA	45:WK:118:CYS:SG	2.52	0.50
45:WM:96:LYS:HD2	46:WN:1:MET:HE1	1.94	0.50
46:WN:130:LEU:HD21	46:WN:133:PHE:CE1	2.47	0.50
2:0B:246:LYS:HA	2:0B:249:GLN:NE2	2.27	0.49
7:0G:77:ASN:HA	9:0N:29:LYS:HD3	1.94	0.49
8:0H:423:GLU:HA	8:0H:426:LYS:HE3	1.93	0.49
13:0U:243:THR:HB	13:0U:284:ILE:HG12	1.94	0.49
1:1A:137:GLN:NE2	45:AE:77:GLU:OE2	2.33	0.49
21:1L:660:LYS:HB3	21:1L:699:TYR:CE2	2.47	0.49
23:1O:74:LEU:HA	23:1O:77:LYS:HZ3	1.75	0.49
24:1P:353:ASN:HA	24:1P:356:ILE:HG12	1.94	0.49
25:1R:248:GLN:N	25:1R:248:GLN:OE1	2.45	0.49
13:1U:403:ALA:O	13:1U:430:ARG:NH1	2.45	0.49
13:1U:499:HIS:ND1	13:1U:502:GLU:HB3	2.27	0.49
27:2C:99:LEU:HD23	27:2C:100:ASN:O	2.11	0.49
5:2E:138:THR:O	5:2E:142:VAL:HG23	2.12	0.49
31:2I:95:LYS:HA	46:GF:332:ASN:OD1	2.11	0.49
20:2K:448:LEU:HB3	20:2K:452:ARG:HH22	1.76	0.49
21:2L:524:ARG:NH1	46:BN:358:PRO:O	2.36	0.49
21:2L:563:PHE:O	21:2L:567:ILE:HG12	2.12	0.49
9:2N:184:CYS:SG	9:2N:212:ILE:HD11	2.51	0.49
9:2N:220:THR:HG22	9:2N:235:VAL:HG22	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:2U:557:VAL:HB	13:2U:602:TRP:CH2	2.46	0.49
26:2W:205:ASP:O	26:2W:208:LEU:N	2.45	0.49
26:2W:256:ARG:NH1	26:2W:260:ILE:HD12	2.26	0.49
16:3B:261:CYS:HB3	16:3B:263:PHE:CZ	2.47	0.49
32:3D:130:LEU:HD12	32:3D:148:ILE:HA	1.93	0.49
5:3E:44:ASP:H	5:3E:78:THR:HG21	1.77	0.49
23:3O:383:ARG:O	23:3O:386:GLU:HG3	2.11	0.49
11:3S:239:VAL:HG13	11:3S:293:LEU:HD21	1.93	0.49
14:3V:122:LYS:HE2	46:LD:390:ARG:NH1	2.27	0.49
14:3V:159:ARG:HD3	14:3V:160:ASP:N	2.26	0.49
27:4C:3:LEU:HB2	27:4C:8:LEU:HD22	1.94	0.49
27:4C:263:ILE:HG22	27:4C:265:ILE:HG12	1.93	0.49
15:4X:86:ASP:HA	15:4X:89:ASN:HD22	1.77	0.49
36:5B:141:SER:HB3	36:5B:144:LYS:HG2	1.94	0.49
37:5G:123:ARG:HA	45:OI:370:LYS:HG3	1.94	0.49
40:6G:252:PHE:C	40:6G:256:LYS:HZ2	2.20	0.49
34:7R:318:TYR:HE1	46:CB:273:LEU:HA	1.77	0.49
34:7R:487:GLU:HB3	34:7R:523:PHE:HZ	1.75	0.49
45:AA:17:GLY:HA2	45:AA:20:CYS:SG	2.51	0.49
46:AD:172:SER:HB2	46:AD:205:GLU:OE2	2.12	0.49
45:AM:387:VAL:O	45:AM:391:LEU:HG	2.12	0.49
45:BC:1:MET:HG3	45:BC:130:THR:HG23	1.94	0.49
46:BD:83:GLN:HE21	46:BD:84:LEU:HD12	1.77	0.49
46:BD:97:ALA:HB3	46:BD:143:THR:HB	1.94	0.49
45:BE:222:PRO:HG2	46:BF:324:LYS:CD	2.42	0.49
46:BH:173:PRO:HG3	46:BH:384:GLN:NE2	2.27	0.49
45:BM:93:ILE:HD11	45:BM:121:ARG:HG3	1.93	0.49
45:CA:288:VAL:HA	45:CA:291:ILE:HG12	1.94	0.49
46:CB:228:LEU:HD13	46:CB:300:MET:HE1	1.94	0.49
45:CC:328:VAL:O	45:CC:332:ILE:HG12	2.12	0.49
46:CF:319:GLY:HA2	46:CF:357:PRO:HD3	1.93	0.49
45:CG:174:SER:HB2	45:CG:177:VAL:O	2.11	0.49
46:CN:262:ARG:NH1	46:CN:421:GLU:OE1	2.45	0.49
45:DA:268:MET:HB2	45:DA:379:SER:O	2.11	0.49
45:DE:98:ASP:OD1	45:DE:99:ALA:N	2.45	0.49
45:DG:132:LEU:HD23	45:DG:164:LYS:HE2	1.93	0.49
46:DH:132:GLY:HA3	46:DH:163:ILE:HG22	1.93	0.49
46:DJ:266:PHE:HE1	46:DJ:370:ASN:HD22	1.59	0.49
45:DM:205:ASP:OD1	45:DM:303:ALA:HA	2.13	0.49
45:DM:244:PHE:HB2	45:DM:356:ASN:HD21	1.76	0.49
46:DN:16:ILE:HD12	46:DN:229:VAL:HG11	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EF:230:SER:HA	46:EF:233:MET:HG2	1.94	0.49
45:EG:183:GLU:N	45:EG:184:PRO:HD2	2.27	0.49
45:EG:288:VAL:HA	45:EG:291:ILE:HG12	1.94	0.49
45:EI:250:VAL:HG13	45:EI:254:GLU:HB2	1.94	0.49
46:EJ:254:ALA:O	46:EJ:258:ILE:HG12	2.12	0.49
45:FE:97:GLU:HG3	45:FE:105:ARG:HH12	1.77	0.49
46:FF:39:ASP:OD1	46:FF:40:SER:N	2.44	0.49
46:FF:67:ASP:OD2	46:FF:68:LEU:N	2.45	0.49
46:FH:8:GLN:HE22	46:FH:17:GLY:HA3	1.77	0.49
45:FI:21:TRP:CZ2	45:FI:65:ALA:HB2	2.47	0.49
45:GE:183:GLU:N	45:GE:184:PRO:HD2	2.27	0.49
45:GG:28:HIS:CE1	45:GG:243:ARG:HD2	2.47	0.49
46:GH:39:ASP:OD1	46:GH:40:SER:N	2.44	0.49
45:GI:224:TYR:HE2	46:GJ:246:LEU:HD11	1.76	0.49
46:GJ:148:GLY:O	46:GJ:152:ILE:HG12	2.12	0.49
45:GK:183:GLU:N	45:GK:184:PRO:HD2	2.27	0.49
45:HG:195:LEU:HD21	45:HG:264:ARG:HE	1.76	0.49
46:HJ:299:MET:HE3	46:HJ:299:MET:HA	1.93	0.49
46:HL:139:LEU:HD12	46:HL:170:VAL:HG12	1.94	0.49
46:HN:156:ARG:HH12	46:HN:160:PRO:HA	1.77	0.49
46:HN:232:ALA:HB1	46:HN:268:ILE:HD12	1.94	0.49
45:IA:174:SER:HB2	45:IA:177:VAL:O	2.12	0.49
45:IC:288:VAL:HA	45:IC:291:ILE:HG12	1.93	0.49
46:IF:297:LYS:HD2	46:IF:297:LYS:H	1.76	0.49
45:IG:183:GLU:N	45:IG:184:PRO:HD2	2.26	0.49
45:II:3:GLU:HG3	45:II:129:CYS:SG	2.52	0.49
45:IM:175:PRO:HA	45:IM:390:ARG:NE	2.27	0.49
46:IN:406:MET:O	46:IN:410:GLU:HG2	2.11	0.49
46:JD:130:LEU:HB2	46:JD:162:ARG:NH1	2.26	0.49
45:JE:115:VAL:HG11	45:JE:152:LEU:HD23	1.94	0.49
46:JF:69:GLU:OE2	46:JF:72:THR:N	2.45	0.49
45:JI:183:GLU:N	45:JI:184:PRO:HD2	2.27	0.49
45:JI:310:GLY:HA3	45:JI:383:ALA:HB2	1.94	0.49
45:JM:183:GLU:N	45:JM:184:PRO:HD2	2.26	0.49
45:KA:68:LEU:HD23	45:KA:93:ILE:HB	1.93	0.49
45:KA:140:SER:HA	45:KA:171:ILE:HB	1.94	0.49
46:KB:51:TYR:HB3	46:KB:59:TYR:HB3	1.93	0.49
45:KK:276:ILE:HG23	45:KK:280:LYS:HB3	1.92	0.49
46:KL:63:ALA:O	46:KL:89:ASN:ND2	2.44	0.49
46:KN:325:GLU:HA	46:KN:328:GLU:CD	2.36	0.49
45:LE:301:MET:HE3	45:LE:301:MET:HA	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LE:407:TRP:CH2	46:LF:258:ILE:HG13	2.46	0.49
45:LG:271:SER:OG	45:LG:377:MET:HE3	2.12	0.49
45:LI:405:VAL:O	45:LI:409:VAL:HG23	2.12	0.49
45:LM:172:TYR:HE1	45:LM:203:MET:HE1	1.76	0.49
46:MB:107:THR:OG1	46:MB:108:GLU:OE1	2.27	0.49
46:MF:139:LEU:HD22	46:MF:170:VAL:HG12	1.94	0.49
45:MG:254:GLU:O	45:MG:255:PHE:HD2	1.95	0.49
45:MI:296:PHE:HE2	45:MI:335:ILE:HG21	1.77	0.49
46:MJ:418:LEU:HD12	46:MJ:421:GLU:OE1	2.12	0.49
45:NA:417:GLU:OE1	45:NA:417:GLU:N	2.45	0.49
45:NI:265:ILE:HG12	45:NI:432:TYR:HE1	1.77	0.49
46:NL:299:MET:HG3	46:NL:305:PRO:HG3	1.92	0.49
46:NN:67:ASP:OD1	46:NN:68:LEU:N	2.43	0.49
45:OC:257:THR:HG22	46:OF:397:TRP:CZ3	2.47	0.49
45:OE:398:MET:HE1	46:OF:345:ILE:HG22	1.93	0.49
45:OG:141:VAL:HG11	45:OG:172:TYR:CD1	2.47	0.49
45:OI:210:TYR:CZ	46:OJ:324:LYS:HG2	2.47	0.49
46:OJ:332:ASN:O	46:OJ:336:LYS:HG2	2.12	0.49
45:OM:167:LEU:HD23	45:OM:200:VAL:HB	1.94	0.49
46:PD:105:HIS:NE2	46:PD:150:LEU:HB3	2.27	0.49
45:PG:292:THR:HG21	45:PG:331:SER:HB3	1.94	0.49
46:PH:186:THR:HA	46:PH:189:VAL:HG12	1.94	0.49
45:PI:352:LYS:HZ3	46:PL:178:THR:HA	1.76	0.49
46:PJ:21:TRP:HA	46:PJ:24:ILE:HG22	1.94	0.49
46:PL:210:ILE:HD13	46:PL:298:ASN:HA	1.93	0.49
45:QA:261:PRO:HB2	45:QA:262:TYR:HD1	1.77	0.49
46:QB:284:LEU:HD11	46:QB:362:LYS:HB3	1.92	0.49
46:QD:5:VAL:HG11	46:QD:123:GLU:OE1	2.11	0.49
46:QD:167:PHE:CE1	46:QD:233:MET:HG3	2.47	0.49
46:QD:324:LYS:NZ	46:QD:325:GLU:OE1	2.45	0.49
45:QE:296:PHE:HE1	45:QE:377:MET:SD	2.35	0.49
46:QF:169:VAL:HG12	46:QF:202:ILE:HB	1.94	0.49
46:QJ:11:GLN:NE2	49:QJ:501:GDP:O3B	2.43	0.49
46:QJ:31:ASP:OD2	46:QJ:34:GLY:N	2.45	0.49
45:QK:434:GLU:O	45:QK:437:ILE:HG12	2.12	0.49
46:QL:11:GLN:O	46:QL:15:GLN:HG2	2.11	0.49
45:QM:269:LEU:HD23	45:QM:379:SER:O	2.12	0.49
46:QN:3:GLU:HG3	46:QN:62:ARG:NH1	2.26	0.49
46:RD:396:HIS:HA	46:RD:399:THR:OG1	2.11	0.49
46:RF:32:PRO:HB3	46:RF:81:PHE:HD1	1.77	0.49
45:RG:316:SER:HA	45:RG:352:LYS:HB2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RL:121:ARG:HH22	46:SL:336:LYS:HE3	1.76	0.49
45:RM:294:SER:O	45:RM:297:GLU:HG2	2.12	0.49
45:SC:242:LEU:HD11	45:SC:252:ILE:HG12	1.93	0.49
46:SD:6:HIS:CE1	46:SD:8:GLN:NE2	2.80	0.49
46:SH:86:ARG:HG2	46:SH:86:ARG:HH11	1.76	0.49
46:SJ:121:ARG:HH12	46:TJ:336:LYS:NZ	2.08	0.49
46:SN:200:MET:HE2	46:SN:268:ILE:HD13	1.94	0.49
46:TB:28:HIS:C	46:TB:43:GLN:HE21	2.20	0.49
45:TG:206:ASN:OD1	47:TG:501:GTP:N2	2.45	0.49
46:TH:372:THR:HA	46:TH:422:TYR:CE2	2.44	0.49
46:TL:133:PHE:HD1	46:TL:164:MET:HE1	1.77	0.49
45:TM:183:GLU:N	45:TM:184:PRO:HD2	2.26	0.49
46:TN:58:ARG:HH21	46:UN:281:TYR:HA	1.76	0.49
46:UB:87:PRO:HA	46:UB:90:PHE:CD2	2.47	0.49
45:UI:207:GLU:HB3	45:UI:304:LYS:NZ	2.27	0.49
45:UI:271:SER:HB3	45:UI:377:MET:HE3	1.94	0.49
45:UM:384:ILE:O	45:UM:387:VAL:HG22	2.12	0.49
46:VB:325:GLU:HA	46:VB:328:GLU:HG3	1.93	0.49
45:VE:17:GLY:HA2	45:VE:20:CYS:SG	2.52	0.49
45:VG:152:LEU:O	45:VG:156:ARG:HG2	2.12	0.49
45:VI:71:GLU:OE2	45:VI:73:THR:OG1	2.19	0.49
45:VM:101:ASN:HA	45:VM:144:GLY:H	1.76	0.49
45:WA:182:VAL:HG22	45:WA:185:TYR:HB2	1.94	0.49
45:WC:329:ASN:HA	45:WC:332:ILE:HG12	1.93	0.49
46:WD:152:ILE:HG23	46:WD:164:MET:HE2	1.93	0.49
46:WF:148:GLY:O	46:WF:152:ILE:HG12	2.12	0.49
45:WI:183:GLU:N	45:WI:184:PRO:HD2	2.27	0.49
45:WI:345:ASP:OD1	45:WI:346:TRP:N	2.45	0.49
45:WK:108:TYR:CE2	45:WK:413:MET:HE3	2.46	0.49
45:WM:268:MET:SD	45:WM:378:ILE:HG23	2.52	0.49
4:0D:116:LEU:HB3	4:0D:121:LYS:NZ	2.27	0.49
8:0H:359:VAL:HG21	45:HM:282:TYR:CE2	2.47	0.49
9:0N:44:SER:O	9:0N:47:LYS:HG2	2.13	0.49
13:0U:37:THR:HG23	13:0U:575:SER:HB2	1.94	0.49
13:0U:489:GLU:OE1	13:0U:491:THR:HG22	2.12	0.49
4:1D:129:GLN:O	4:1D:133:THR:HG23	2.12	0.49
19:1J:385:ILE:HA	19:1J:388:PHE:CE1	2.47	0.49
21:1L:525:LEU:HD13	46:BF:320:ARG:CB	2.40	0.49
21:1L:567:ILE:O	21:1L:571:ALA:HB2	2.12	0.49
24:1P:307:LYS:HA	24:1P:310:LYS:HZ2	1.77	0.49
12:1T:41:PHE:CD1	12:1T:167:ALA:HB1	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:1U:95:MET:HG2	13:1U:96:HIS:ND1	2.26	0.49
13:1U:430:ARG:NE	13:1U:445:MET:HE1	2.27	0.49
14:1V:96:ASN:ND2	46:LJ:262:ARG:HB2	2.27	0.49
16:2B:21:LYS:HD2	16:2B:57:GLY:HA3	1.92	0.49
4:2D:23:ARG:HE	4:2D:25:ASP:CG	2.20	0.49
5:2E:89:ARG:HH11	5:2E:90:GLY:H	1.59	0.49
20:2K:315:ARG:NH1	45:GI:372:MET:HB3	2.28	0.49
20:2K:335:THR:O	20:2K:339:GLU:HG2	2.13	0.49
21:2L:359:LYS:HG3	34:6R:177:VAL:HG23	1.93	0.49
21:2L:588:ILE:O	21:2L:591:VAL:HG22	2.11	0.49
25:2R:462:LYS:HZ3	25:2R:465:GLU:HA	1.75	0.49
11:2S:46:TRP:CD1	11:2S:47:LYS:H	2.30	0.49
16:3B:72:TYR:CZ	16:3B:75:ASN:HA	2.46	0.49
27:3C:258:LEU:HB3	27:3C:263:ILE:O	2.12	0.49
5:3E:100:VAL:HG13	5:3E:164:TRP:HE1	1.76	0.49
23:3O:361:LEU:O	23:3O:364:LYS:HG3	2.11	0.49
11:3S:104:THR:HB	46:MN:156:ARG:HH22	1.78	0.49
12:3T:231:GLU:HB2	12:3T:235:THR:HG23	1.93	0.49
13:3U:512:ARG:HE	13:3U:533:GLU:HA	1.77	0.49
13:3U:590:VAL:O	13:3U:602:TRP:N	2.33	0.49
34:5R:92:VAL:HG12	34:5R:121:TYR:HA	1.93	0.49
40:6G:118:LYS:NZ	46:UJ:121:ARG:HE	2.10	0.49
40:6G:220:LEU:O	40:6G:224:LEU:HD23	2.13	0.49
41:6H:219:THR:O	46:FD:320:ARG:NH1	2.46	0.49
46:AB:86:ARG:HD3	46:AB:87:PRO:HD2	1.95	0.49
46:AJ:4:ILE:HG13	46:AJ:132:GLY:O	2.12	0.49
46:AJ:294:PHE:HE2	46:AJ:333:VAL:HG11	1.77	0.49
45:BA:141:VAL:HG22	45:BA:187:SER:HA	1.94	0.49
46:BD:345:ILE:O	46:BD:345:ILE:HG13	2.11	0.49
46:BF:267:MET:HG3	46:BF:299:MET:SD	2.52	0.49
46:BL:86:ARG:NH1	46:CJ:281:TYR:O	2.44	0.49
45:BM:175:PRO:HG3	45:BM:390:ARG:CD	2.42	0.49
45:BM:183:GLU:N	45:BM:184:PRO:HD2	2.27	0.49
45:CC:293:ASN:O	45:CC:297:GLU:HG2	2.12	0.49
46:CD:258:ILE:HD11	45:CE:407:TRP:HZ2	1.77	0.49
46:CJ:226:ASN:HD21	49:CJ:501:GDP:HN1	1.59	0.49
46:CL:213:ARG:HB3	46:CL:297:LYS:NZ	2.26	0.49
46:CN:87:PRO:HA	46:CN:90:PHE:CD2	2.47	0.49
46:DB:252:LYS:HA	45:DC:100:ALA:HB1	1.94	0.49
45:DE:288:VAL:HA	45:DE:291:ILE:HG12	1.94	0.49
46:DF:145:SER:HB2	46:DF:188:SER:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EA:103:PHE:H	45:EA:408:TYR:HE2	1.59	0.49
45:EE:11:GLN:NE2	47:EE:501:GTP:O1A	2.45	0.49
46:EF:67:ASP:OD1	46:EF:68:LEU:N	2.43	0.49
46:EH:21:TRP:CZ3	46:EH:61:PRO:HB3	2.46	0.49
46:EH:317:PHE:CD1	46:EH:365:VAL:HG22	2.47	0.49
46:EL:99:ASN:HA	46:EL:142:GLY:H	1.77	0.49
46:EL:163:ILE:HG21	46:EL:250:LEU:HD22	1.94	0.49
45:FC:98:ASP:OD2	45:FC:99:ALA:N	2.46	0.49
46:FD:20:PHE:CD2	46:FD:21:TRP:CD1	3.00	0.49
47:FE:501:GTP:O1G	46:FF:252:LYS:NZ	2.36	0.49
46:FL:201:VAL:HG13	46:FL:301:CYS:SG	2.52	0.49
45:GA:71:GLU:OE1	46:GB:247:ASN:ND2	2.45	0.49
45:GC:72:PRO:HD2	46:GD:2:ARG:HH21	1.77	0.49
46:GD:10:GLY:O	46:GD:14:ASN:ND2	2.44	0.49
46:GD:164:MET:HB3	46:GD:197:ASP:HB2	1.93	0.49
45:GE:117:LEU:O	45:GE:121:ARG:HG2	2.12	0.49
46:GH:321:MET:HE3	46:GH:363:MET:SD	2.52	0.49
45:GI:21:TRP:CZ2	45:GI:65:ALA:HB2	2.47	0.49
46:GJ:39:ASP:OD2	46:GJ:40:SER:N	2.44	0.49
45:GM:89:PRO:HG2	45:HM:280:LYS:HE2	1.94	0.49
46:HB:344:TRP:CE3	46:HB:345:ILE:HG23	2.47	0.49
46:HD:200:MET:HE1	46:HD:266:PHE:HD2	1.77	0.49
45:HE:326:LYS:HZ2	46:HH:220:PRO:HD2	1.77	0.49
45:HI:71:GLU:OE2	46:HJ:2:ARG:NH2	2.40	0.49
45:HI:72:PRO:HD2	46:HJ:2:ARG:NH2	2.27	0.49
46:HJ:178:THR:HG22	46:HJ:180:VAL:H	1.77	0.49
46:HN:116:VAL:HA	46:HN:119:VAL:HG12	1.94	0.49
45:IC:336:LYS:HD3	45:IC:351:PHE:CE2	2.46	0.49
46:IF:350:LYS:NZ	46:IF:352:SER:OG	2.26	0.49
45:IG:74:VAL:O	45:IG:77:GLU:HG3	2.12	0.49
45:IG:271:SER:HA	45:IG:302:MET:HE2	1.94	0.49
45:JA:265:ILE:O	45:JA:265:ILE:HG13	2.12	0.49
45:JC:135:PHE:HB2	45:JC:166:LYS:HG2	1.94	0.49
46:JD:215:LEU:HB3	46:JD:217:LEU:HD23	1.94	0.49
45:JE:292:THR:HG22	45:JE:335:ILE:HD11	1.92	0.49
45:JG:50:ASN:HA	45:JG:53:PHE:O	2.11	0.49
46:JJ:372:THR:HA	46:JJ:422:TYR:CE2	2.44	0.49
45:JM:27:GLU:HB3	45:JM:361:THR:HG21	1.94	0.49
46:KB:8:GLN:HE21	46:KB:14:ASN:HA	1.76	0.49
45:KE:10:GLY:O	45:KE:14:ILE:HG12	2.11	0.49
46:KF:191:GLN:O	46:KF:195:ASN:ND2	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KF:286:VAL:HG21	46:KF:325:GLU:HG3	1.93	0.49
45:KG:246:GLY:HA2	45:KG:357:TYR:CD2	2.47	0.49
45:KI:56:THR:O	45:LI:285:GLN:HA	2.12	0.49
46:KJ:20:PHE:HA	46:KJ:230:SER:OG	2.12	0.49
46:KJ:22:GLU:HG2	46:KJ:81:PHE:CE1	2.47	0.49
45:KK:390:ARG:O	45:KK:394:LYS:HG2	2.11	0.49
45:KM:49:PHE:CD2	45:KM:53:PHE:HB2	2.47	0.49
45:LA:204:LEU:HD13	45:LA:231:ILE:HD12	1.94	0.49
45:LA:371:VAL:HG22	45:LA:373:ARG:H	1.76	0.49
45:LC:183:GLU:N	45:LC:184:PRO:HD2	2.27	0.49
46:LH:165:GLU:HG2	46:LH:250:LEU:HD21	1.94	0.49
46:LJ:133:PHE:HB2	46:LJ:164:MET:SD	2.51	0.49
46:LN:293:MET:SD	46:LN:367:PHE:HB2	2.52	0.49
45:MC:174:SER:HB3	45:MC:177:VAL:O	2.12	0.49
46:ML:187:LEU:HD11	46:ML:408:PHE:CE1	2.47	0.49
45:MM:420:GLU:HA	45:MM:423:GLU:CD	2.37	0.49
45:NA:224:TYR:HD1	47:NA:501:GTP:C6	2.29	0.49
46:NF:105:HIS:CE1	46:NF:150:LEU:HD12	2.46	0.49
46:NJ:407:GLU:O	46:NJ:410:GLU:HG3	2.12	0.49
45:NK:97:GLU:HB2	46:NL:2:ARG:HH21	1.75	0.49
45:NK:326:LYS:HG3	45:NK:327:ASP:N	2.27	0.49
46:OB:64:ILE:HG13	46:OB:89:ASN:ND2	2.27	0.49
46:OD:135:ILE:HG13	46:OD:152:ILE:HD11	1.93	0.49
46:OD:245:GLN:HB3	46:OD:353:ILE:HB	1.94	0.49
45:OI:255:PHE:O	45:OI:259:LEU:HG	2.12	0.49
46:OJ:178:THR:HB	46:OJ:181:GLU:HG3	1.94	0.49
46:OL:222:TYR:HD2	49:OL:501:GDP:C6	2.30	0.49
46:OL:390:ARG:O	46:OL:392:LYS:NZ	2.39	0.49
46:ON:70:PRO:HG3	46:ON:92:PHE:CD2	2.47	0.49
46:ON:130:LEU:HD21	46:ON:133:PHE:HE2	1.77	0.49
46:ON:150:LEU:O	46:ON:154:LYS:HG2	2.12	0.49
45:PE:239:THR:HG23	45:PE:243:ARG:HE	1.78	0.49
45:PG:311:LYS:HD2	45:PG:343:PHE:C	2.37	0.49
46:PH:67:ASP:O	46:PH:92:PHE:HA	2.13	0.49
46:PJ:7:ILE:HG22	46:PJ:64:ILE:HD13	1.94	0.49
46:PJ:86:ARG:HD3	46:QH:281:TYR:HD1	1.78	0.49
46:PJ:190:HIS:CE1	46:PJ:414:ASN:HD22	2.30	0.49
46:QB:86:ARG:HD2	46:RB:281:TYR:HB2	1.93	0.49
45:QC:288:VAL:HA	45:QC:291:ILE:HG12	1.94	0.49
45:QE:166:LYS:N	45:QE:199:ASP:OD2	2.38	0.49
45:QM:288:VAL:HG11	45:QM:327:ASP:HB3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RC:90:GLU:OE2	45:SC:280:LYS:NZ	2.33	0.49
46:RF:117:LEU:HD22	46:RF:154:LYS:HD3	1.95	0.49
46:RL:16:ILE:HG21	46:RL:136:THR:HG21	1.94	0.49
45:SA:183:GLU:N	45:SA:184:PRO:HD2	2.27	0.49
46:SF:324:LYS:HE3	45:SG:214:ARG:CD	2.41	0.49
46:SH:117:LEU:HD11	46:SH:154:LYS:HZ1	1.77	0.49
46:SJ:237:THR:HG23	46:SJ:241:ARG:HH21	1.77	0.49
46:TF:274:THR:HG23	46:TF:279:GLN:OE1	2.12	0.49
46:TL:30:ILE:HD11	46:TL:47:ILE:HD11	1.94	0.49
46:TL:133:PHE:CD1	46:TL:164:MET:HE1	2.47	0.49
45:UA:206:ASN:OD1	47:UA:501:GTP:N2	2.45	0.49
46:UB:229:VAL:O	46:UB:233:MET:HG2	2.12	0.49
46:UD:248:SER:HA	46:UD:252:LYS:HG3	1.93	0.49
45:UG:203:MET:N	45:UG:203:MET:HE2	2.26	0.49
45:UG:324:VAL:HG12	45:UG:326:LYS:HG2	1.94	0.49
46:UH:267:MET:SD	46:UH:374:ILE:HG22	2.52	0.49
46:UJ:341:PHE:CE2	46:UJ:349:ILE:HD11	2.46	0.49
46:UL:87:PRO:HA	46:UL:90:PHE:CD2	2.47	0.49
46:UL:200:MET:HE1	46:UL:268:ILE:H	1.76	0.49
46:VB:132:GLY:CA	46:VB:163:ILE:O	2.54	0.49
46:VB:154:LYS:HA	46:VB:157:GLU:OE1	2.12	0.49
45:VC:268:MET:HB2	45:VC:379:SER:O	2.12	0.49
45:VE:88:HIS:O	45:VE:91:GLN:HG2	2.11	0.49
45:VG:318:MET:SD	45:VG:320:ARG:HB3	2.53	0.49
46:VH:16:ILE:HD12	46:VH:229:VAL:HG11	1.93	0.49
46:VH:116:VAL:HA	46:VH:119:VAL:HG12	1.94	0.49
45:VI:21:TRP:CZ2	45:VI:65:ALA:HB2	2.47	0.49
46:VJ:107:THR:OG1	46:VJ:108:GLU:OE1	2.21	0.49
45:VK:172:TYR:HE2	45:VK:203:MET:HE1	1.76	0.49
46:VL:201:VAL:O	46:VL:202:ILE:HD13	2.11	0.49
45:VM:96:LYS:HE3	46:VN:129:CYS:HB2	1.94	0.49
45:VM:301:MET:HE3	45:VM:307:PRO:HG3	1.94	0.49
46:VN:28:HIS:C	46:VN:43:GLN:HE21	2.20	0.49
45:WA:387:VAL:HA	45:WA:390:ARG:HG2	1.94	0.49
45:WC:210:TYR:CZ	46:WD:324:LYS:HD2	2.47	0.49
45:WI:288:VAL:HA	45:WI:291:ILE:HG12	1.94	0.49
45:WM:88:HIS:HB3	45:WM:91:GLN:HG2	1.94	0.49
45:WM:121:ARG:HA	45:WM:124:LYS:NZ	2.27	0.49
45:WM:210:TYR:HE1	45:WM:227:LEU:HD11	1.77	0.49
46:WN:16:ILE:HD12	46:WN:229:VAL:HG11	1.94	0.49
45:CE:255:PHE:O	45:CE:259:LEU:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:0C:44:ILE:O	3:0C:44:ILE:HG13	2.11	0.49
3:0C:47:ILE:HG23	3:0C:48:ARG:HG3	1.93	0.49
5:0E:32:ARG:HH21	5:0E:167:TYR:HH	1.60	0.49
7:0G:72:GLN:OE1	9:0N:47:LYS:NZ	2.45	0.49
11:0S:30:HIS:HA	11:0S:34:ILE:HG21	1.94	0.49
12:0T:269:LYS:HE3	13:0U:304:TRP:CE2	2.48	0.49
12:0T:283:TYR:O	13:0U:52:ARG:NH1	2.45	0.49
13:0U:5:LEU:N	13:0U:570:SER:O	2.44	0.49
13:0U:229:ARG:HH12	13:0U:269:MET:HE3	1.77	0.49
13:0U:542:THR:HG23	13:0U:587:GLN:OE1	2.12	0.49
14:0V:69:SER:OG	46:MN:336:LYS:O	2.21	0.49
5:1E:5:LEU:O	5:1E:9:ILE:HG12	2.12	0.49
17:1F:41:TYR:OH	45:GK:60:LYS:NZ	2.36	0.49
8:1H:49:GLN:HA	8:1H:52:LYS:HG2	1.94	0.49
19:1J:114:ARG:C	19:1J:116:VAL:H	2.20	0.49
19:1J:219:LEU:O	19:1J:220:GLN:HG3	2.12	0.49
9:1N:209:ILE:HD12	9:1N:218:LEU:HD23	1.94	0.49
23:1O:139:ASP:O	23:1O:143:MET:CB	2.57	0.49
23:1O:220:VAL:HA	23:1O:223:ARG:CD	2.42	0.49
25:1R:365:GLU:HG3	25:1R:367:TYR:HB3	1.94	0.49
14:1V:138:ALA:O	14:1V:142:ILE:HG12	2.13	0.49
28:2F:93:GLU:O	45:HE:308:ARG:NH1	2.46	0.49
21:2L:567:ILE:O	21:2L:571:ALA:HB2	2.13	0.49
9:2N:157:ILE:HD12	9:2N:157:ILE:H	1.77	0.49
10:2Q:131:GLN:HE22	10:2Q:133:GLN:HB3	1.75	0.49
13:2U:233:VAL:HG22	13:2U:234:LYS:HG2	1.94	0.49
14:2V:234:THR:HG22	14:2V:237:LEU:HD23	1.94	0.49
27:3C:203:LEU:C	27:3C:268:ARG:HH22	2.20	0.49
10:3Q:88:THR:HG22	10:3Q:106:SER:HA	1.94	0.49
25:3R:245:VAL:HG12	45:BK:57:GLY:HA2	1.94	0.49
13:3U:68:LYS:HG3	13:3U:69:TYR:CD1	2.48	0.49
13:3U:593:VAL:HG12	13:3U:599:ILE:HG23	1.93	0.49
37:5F:11:TRP:CZ2	46:ND:57:GLY:HA3	2.47	0.49
37:5F:104:MET:HG3	37:5F:105:LYS:H	1.77	0.49
40:6G:86:LYS:C	40:6G:87:LYS:HD2	2.38	0.49
45:AE:294:SER:HA	45:AE:297:GLU:OE1	2.12	0.49
45:BC:221:ARG:NH1	46:BD:325:GLU:HG3	2.27	0.49
45:BI:183:GLU:N	45:BI:184:PRO:HD2	2.27	0.49
45:BK:271:SER:HA	45:BK:302:MET:HG2	1.93	0.49
46:BL:7:ILE:HB	46:BL:135:ILE:HG12	1.93	0.49
46:CB:207:LEU:HB3	46:CB:225:LEU:HD22	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CC:5:ILE:HD12	45:CC:135:PHE:HE1	1.77	0.49
46:CD:16:ILE:HD13	46:CD:226:ASN:OD1	2.13	0.49
46:CD:166:THR:HG21	46:CD:192:LEU:HD11	1.94	0.49
46:CD:258:ILE:HD11	45:CE:407:TRP:CZ2	2.47	0.49
45:CG:211:ASP:CG	45:CG:215:ARG:HE	2.20	0.49
45:CK:5:ILE:O	45:CK:135:PHE:HA	2.11	0.49
45:CM:58:ALA:O	45:DM:282:TYR:OH	2.23	0.49
46:DB:116:VAL:HA	46:DB:119:VAL:HG22	1.93	0.49
45:DK:208:ALA:O	45:DK:212:ILE:HG12	2.12	0.49
45:DK:326:LYS:HG3	45:DK:327:ASP:N	2.25	0.49
46:EJ:67:ASP:OD1	46:EJ:68:LEU:N	2.44	0.49
46:EL:213:ARG:CZ	46:EL:297:LYS:HD2	2.41	0.49
46:EN:68:LEU:HD12	46:EN:93:GLY:HA3	1.94	0.49
45:FC:265:ILE:HD13	45:FC:432:TYR:CE1	2.47	0.49
46:FD:4:ILE:HG13	46:FD:132:GLY:O	2.12	0.49
46:FD:310:TYR:CD1	46:FD:371:SER:HB3	2.46	0.49
45:FG:101:ASN:HA	45:FG:144:GLY:H	1.78	0.49
46:FL:406:MET:O	46:FL:409:THR:N	2.44	0.49
45:GC:317:MET:HE1	45:GC:351:PHE:HD2	1.77	0.49
46:GD:9:GLY:HA2	46:GD:66:MET:O	2.12	0.49
45:GG:209:ILE:HD13	45:GG:302:MET:HG2	1.94	0.49
45:GG:328:VAL:O	45:GG:332:ILE:HG12	2.12	0.49
46:GJ:175:VAL:HG22	46:GJ:205:GLU:HB2	1.93	0.49
45:GK:205:ASP:OD1	45:GK:303:ALA:HA	2.12	0.49
45:HA:212:ILE:HD11	45:HA:300:ASN:HA	1.94	0.49
46:HD:342:VAL:HG13	46:HD:345:ILE:HG22	1.94	0.49
45:IA:3:GLU:O	45:IA:133:GLN:N	2.31	0.49
45:IA:241:SER:OG	45:IA:250:VAL:O	2.24	0.49
45:IA:311:LYS:HE3	45:IA:342:GLN:HG3	1.95	0.49
45:IA:356:ASN:OD1	45:IA:358:GLN:NE2	2.44	0.49
46:ID:41:ASP:OD1	46:ID:42:LEU:HD12	2.12	0.49
46:ID:221:THR:HG23	46:ID:224:ASP:H	1.76	0.49
46:IF:372:THR:HA	46:IF:422:TYR:CE2	2.46	0.49
45:IG:27:GLU:OE2	45:IG:243:ARG:NH1	2.35	0.49
46:JH:69:GLU:CD	46:JH:71:GLY:H	2.20	0.49
45:JM:214:ARG:HG2	45:JM:214:ARG:HH11	1.77	0.49
46:KB:69:GLU:OE1	46:KB:71:GLY:N	2.43	0.49
46:KB:286:VAL:HG21	46:KB:325:GLU:HG3	1.94	0.49
45:KC:259:LEU:HB3	45:KC:268:MET:SD	2.52	0.49
46:KH:318:ARG:HH21	46:KH:358:PRO:HG3	1.76	0.49
45:KM:17:GLY:HA2	45:KM:20:CYS:SG	2.52	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KN:206:ALA:O	46:KN:210:ILE:HG12	2.12	0.49
45:LA:270:SER:N	45:LA:301:MET:HE1	2.27	0.49
45:LK:185:TYR:O	45:LK:189:LEU:HG	2.12	0.49
46:MH:380:ARG:HA	46:MH:383:GLU:HG2	1.94	0.49
45:MM:265:ILE:O	45:MM:265:ILE:HG13	2.12	0.49
46:MN:202:ILE:HD11	46:MN:268:ILE:HD11	1.94	0.49
45:NA:258:ASN:ND2	45:NA:352:LYS:HE3	2.27	0.49
45:NC:105:ARG:HG2	45:NC:110:ILE:HG12	1.95	0.49
45:NE:29:GLY:O	45:NE:40:LYS:NZ	2.44	0.49
45:NG:210:TYR:CE1	45:NG:227:LEU:HD21	2.47	0.49
45:NI:237:SER:HA	45:NI:320:ARG:HH11	1.77	0.49
45:NI:343:PHE:HZ	45:NI:351:PHE:HE1	1.59	0.49
46:NJ:5:VAL:HA	46:NJ:62:ARG:HD3	1.94	0.49
46:NJ:270:PHE:HE1	46:NJ:364:ALA:HB1	1.78	0.49
46:NL:22:GLU:HG2	46:NL:81:PHE:CE1	2.46	0.49
46:NL:148:GLY:O	46:NL:152:ILE:HD12	2.11	0.49
46:NL:167:PHE:CE2	46:NL:233:MET:HG3	2.37	0.49
46:NL:178:THR:HB	46:NL:181:GLU:HG3	1.94	0.49
45:NM:9:VAL:HG13	45:NM:139:ASN:HB3	1.95	0.49
45:OA:17:GLY:HA2	45:OA:20:CYS:SG	2.51	0.49
46:OB:152:ILE:HD13	46:OB:164:MET:HE2	1.95	0.49
46:OD:238:CYS:SG	46:OD:318:ARG:NE	2.85	0.49
46:OD:285:THR:O	46:OD:288:GLU:HG3	2.12	0.49
45:OG:252:ILE:HD12	45:OG:252:ILE:H	1.77	0.49
45:OG:324:VAL:HG12	45:OG:326:LYS:HG2	1.95	0.49
46:OJ:199:CYS:HB3	46:OJ:265:PHE:CD1	2.47	0.49
46:OL:211:CYS:HA	46:OL:215:LEU:HB2	1.94	0.49
45:OM:221:ARG:HH22	46:ON:324:LYS:HG2	1.77	0.49
46:PB:290:THR:HA	46:PB:293:MET:HG2	1.95	0.49
46:QB:106:TYR:CZ	46:QB:403:MET:HE2	2.47	0.49
46:QB:235:GLY:O	46:QB:316:LEU:HD23	2.12	0.49
46:QB:313:ALA:HB1	46:QB:367:PHE:HE1	1.77	0.49
45:QE:332:ILE:O	45:QE:335:ILE:HG12	2.12	0.49
46:QH:45:GLU:O	46:QH:46:ARG:NH1	2.45	0.49
46:QH:258:ILE:HD11	45:QI:407:TRP:CZ2	2.47	0.49
45:QK:328:VAL:O	45:QK:332:ILE:HG12	2.12	0.49
45:QK:344:VAL:HG11	45:QK:346:TRP:CE2	2.47	0.49
46:QL:86:ARG:HH11	46:RL:282:ARG:HH12	1.58	0.49
46:RF:12:CYS:HA	46:RF:15:GLN:NE2	2.26	0.49
45:RI:87:PHE:CD2	45:RI:92:LEU:HD21	2.48	0.49
46:RJ:187:LEU:HD21	46:RJ:408:PHE:HE1	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RJ:347:ASN:HD21	45:RK:178:SER:HB2	1.77	0.49
45:SC:208:ALA:O	45:SC:212:ILE:HG12	2.12	0.49
46:SD:238:CYS:HB2	46:SD:318:ARG:NH1	2.27	0.49
46:SF:232:ALA:O	46:SF:236:VAL:HG23	2.13	0.49
46:SF:258:ILE:HG13	45:SG:407:TRP:HZ2	1.77	0.49
45:SI:88:HIS:CE1	45:SI:90:GLU:HG2	2.47	0.49
45:SI:244:PHE:HB2	45:SI:356:ASN:HD21	1.78	0.49
46:SJ:375:GLN:OE1	46:SJ:379:LYS:NZ	2.44	0.49
45:SK:102:ASN:ND2	45:SK:105:ARG:HG3	2.27	0.49
45:TE:135:PHE:HB2	45:TE:166:LYS:HG3	1.95	0.49
46:TH:247:ASN:ND2	45:TI:71:GLU:OE1	2.45	0.49
45:TI:101:ASN:ND2	45:TI:143:GLY:HA2	2.27	0.49
46:TL:173:PRO:HG2	46:TL:380:ARG:NE	2.27	0.49
46:TL:334:GLN:HG3	46:TL:341:PHE:CD2	2.48	0.49
45:UE:257:THR:HG22	46:UF:397:TRP:CH2	2.47	0.49
46:UF:296:ALA:HA	46:UF:299:MET:HE1	1.93	0.49
45:UG:313:MET:HE3	45:UG:382:THR:HG23	1.93	0.49
46:UH:105:HIS:CE1	46:UH:150:LEU:HD12	2.46	0.49
46:UH:178:THR:HG22	46:UH:180:VAL:H	1.78	0.49
46:UH:248:SER:HA	46:UH:252:LYS:HD2	1.94	0.49
46:UN:135:ILE:HB	46:UN:166:THR:HA	1.94	0.49
45:VC:210:TYR:CD1	46:VD:324:LYS:HG3	2.46	0.49
46:VF:100:ASN:ND2	46:VF:102:ALA:HB3	2.27	0.49
46:VN:64:ILE:HA	46:VN:89:ASN:HB3	1.93	0.49
46:WJ:105:HIS:CE1	46:WJ:150:LEU:HD13	2.47	0.49
46:WJ:183:TYR:HE2	46:WJ:394:PHE:HB2	1.77	0.49
45:WK:177:VAL:HG22	46:WL:331:LEU:HD13	1.94	0.49
46:WN:49:VAL:HG23	46:WN:50:TYR:HD2	1.77	0.49
46:WN:282:ARG:NH2	46:WN:288:GLU:HB2	2.27	0.49
45:CE:272:TYR:HD2	45:CE:275:ILE:HD11	1.77	0.49
1:0A:19:ARG:HG2	1:0A:20:PRO:HD2	1.94	0.49
2:0B:141:ILE:HG22	9:1N:37:LYS:NZ	2.28	0.49
4:0D:125:PHE:C	4:0D:127:GLN:H	2.19	0.49
8:0H:395:ILE:HA	8:0H:398:GLU:CD	2.36	0.49
9:0N:158:THR:HG23	46:KN:227:HIS:CE1	2.47	0.49
9:0N:184:CYS:SG	9:0N:212:ILE:HD11	2.52	0.49
10:0Q:6:PHE:CZ	45:WA:121:ARG:NH1	2.80	0.49
12:0T:131:ALA:HB1	12:0T:135:GLN:HB3	1.95	0.49
15:0X:94:SER:HA	15:0X:97:GLN:NE2	2.27	0.49
4:1D:61:ILE:O	4:1D:65:ILE:HG12	2.11	0.49
18:1I:209:GLU:OE2	18:1I:214:GLN:HB2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:1J:42:PRO:HD2	19:1J:45:ILE:HD11	1.93	0.49
19:1J:226:THR:HG23	22:2M:327:GLU:OE1	2.12	0.49
21:1L:102:CYS:HA	21:1L:105:ILE:HG22	1.95	0.49
21:1L:130:GLN:HG2	21:1L:131:ASN:H	1.76	0.49
9:1N:90:TRP:HZ3	9:1N:229:PHE:CZ	2.30	0.49
9:1N:391:LEU:HD23	9:1N:468:HIS:CG	2.47	0.49
23:1O:95:LYS:O	23:1O:98:MET:HG3	2.12	0.49
25:1R:25:VAL:HG12	45:MC:46:ASP:HA	1.95	0.49
25:1R:387:ASP:OD1	25:1R:388:GLU:N	2.44	0.49
13:1U:474:ILE:HG12	13:1U:486:CYS:HB3	1.94	0.49
14:1V:118:LYS:HB3	14:1V:120:GLU:OE1	2.12	0.49
1:2A:40:GLY:O	1:2A:41:THR:OG1	2.20	0.49
1:2A:83:LEU:HG	34:5R:70:ARG:NH1	2.27	0.49
5:2E:99:ILE:HD12	5:2E:102:LYS:HD3	1.94	0.49
29:2G:37:LYS:HZ1	46:JJ:77:ARG:HD2	1.77	0.49
21:2L:594:GLN:OE1	25:3R:109:SER:OG	2.17	0.49
21:2L:877:PHE:HA	21:2L:887:LYS:NZ	2.27	0.49
22:2M:272:LEU:H	22:2M:272:LEU:HD23	1.78	0.49
9:2N:99:ALA:HB1	9:2N:172:SER:HB2	1.93	0.49
23:2O:157:ASP:O	23:2O:161:THR:HG23	2.12	0.49
23:2O:311:LYS:HE2	45:VE:359:PRO:HG3	1.95	0.49
25:2R:29:LYS:HD2	45:MG:45:GLY:N	2.27	0.49
15:2X:97:GLN:NE2	45:LG:58:ALA:HB1	2.27	0.49
23:3O:273:LEU:HB3	23:3O:277:LYS:HZ1	1.76	0.49
37:5E:81:MET:HG3	37:5E:96:TYR:HE2	1.76	0.49
37:5E:87:LEU:HD13	37:5E:92:GLN:HB3	1.95	0.49
37:5G:54:LYS:HA	46:OJ:227:HIS:CE1	2.47	0.49
37:5H:108:LYS:HA	37:5H:108:LYS:HE2	1.92	0.49
46:AB:139:LEU:HD22	46:AB:170:VAL:HG12	1.92	0.49
46:AH:229:VAL:HG12	46:AH:233:MET:HE2	1.92	0.49
45:AI:64:ARG:HH12	45:AI:128:ASN:HD22	1.59	0.49
45:AK:35:GLN:HE22	45:AK:59:GLY:HA3	1.76	0.49
46:AL:103:LYS:HA	46:AL:107:THR:HG22	1.94	0.49
46:AL:151:LEU:HA	46:AL:154:LYS:NZ	2.27	0.49
46:AL:321:MET:HB3	46:AL:363:MET:HE1	1.93	0.49
45:BA:226:ASN:OD1	45:BA:227:LEU:N	2.45	0.49
46:BH:65:LEU:HD22	46:BH:90:PHE:CE1	2.48	0.49
46:BJ:132:GLY:HA3	46:BJ:163:ILE:O	2.13	0.49
45:BK:322:ASP:OD1	45:BK:373:ARG:NH1	2.45	0.49
45:BM:69:ASP:O	45:BM:94:SER:HA	2.12	0.49
45:BM:119:LEU:HA	45:BM:122:ILE:HG22	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CA:216:ASN:ND2	45:CA:275:ILE:O	2.43	0.49
45:CC:334:THR:O	45:CC:338:LYS:HG3	2.12	0.49
46:CF:201:VAL:HG23	46:CF:301:CYS:SG	2.52	0.49
45:CM:147:SER:HB2	45:CM:190:SER:HB3	1.95	0.49
45:CM:193:SER:O	45:CM:197:HIS:ND1	2.42	0.49
46:DF:31:ASP:HB2	46:DF:37:HIS:ND1	2.28	0.49
46:DH:318:ARG:HB3	46:DH:357:PRO:HA	1.94	0.49
46:DJ:318:ARG:HB2	46:DJ:364:ALA:HB3	1.94	0.49
45:DM:384:ILE:O	45:DM:387:VAL:HG22	2.12	0.49
45:EE:171:ILE:HA	45:EE:204:LEU:HB2	1.93	0.49
45:EI:183:GLU:N	45:EI:184:PRO:HD2	2.28	0.49
46:EJ:361:LEU:C	46:EJ:362:LYS:HD3	2.38	0.49
46:EL:207:LEU:HD13	46:EL:225:LEU:HB3	1.93	0.49
45:FA:420:GLU:HA	45:FA:423:GLU:CD	2.37	0.49
46:FB:299:MET:HA	46:FB:299:MET:HE2	1.95	0.49
45:FC:265:ILE:HG13	45:FC:380:ASN:HD21	1.77	0.49
45:FE:80:THR:O	45:FE:84:ARG:NH2	2.45	0.49
46:GB:345:ILE:O	46:GB:345:ILE:HG13	2.13	0.49
46:GD:233:MET:O	46:GD:236:VAL:HG12	2.13	0.49
46:GH:287:PRO:HA	46:GH:290:THR:HG22	1.93	0.49
45:GK:56:THR:OG1	45:HK:282:TYR:O	2.30	0.49
46:GN:372:THR:HA	46:GN:422:TYR:HE2	1.77	0.49
45:HA:221:ARG:HD2	46:HB:322:SER:OG	2.12	0.49
46:HD:252:LYS:HG2	46:HD:350:LYS:NZ	2.27	0.49
46:ID:3:GLU:CD	46:ID:62:ARG:HE	2.21	0.49
46:IF:198:GLU:HG2	46:IF:266:PHE:HE2	1.76	0.49
45:IG:414:GLU:CD	45:IG:416:GLY:H	2.19	0.49
46:IH:211:CYS:HA	46:IH:215:LEU:HD13	1.94	0.49
45:IM:169:PHE:CE2	45:IM:235:ILE:HD12	2.47	0.49
46:JH:203:ASP:OD1	46:JH:205:GLU:HG3	2.11	0.49
46:JJ:313:ALA:HB1	46:JJ:367:PHE:HE1	1.78	0.49
45:JK:183:GLU:N	45:JK:184:PRO:HD2	2.27	0.49
46:JL:167:PHE:CZ	46:JL:233:MET:HG3	2.47	0.49
45:JM:5:ILE:HG21	45:JM:122:ILE:HD11	1.94	0.49
45:JM:345:ASP:OD1	45:JM:346:TRP:N	2.45	0.49
46:KB:282:ARG:HH12	46:KB:288:GLU:HB3	1.77	0.49
45:KI:406:HIS:HA	45:KI:409:VAL:HG12	1.94	0.49
45:KM:307:PRO:HB2	45:KM:312:TYR:HE1	1.77	0.49
46:LD:371:SER:O	46:LD:422:TYR:OH	2.21	0.49
45:LE:407:TRP:CH2	46:LF:255:VAL:HA	2.47	0.49
45:LI:222:PRO:HD2	46:LJ:324:LYS:HZ1	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LL:116:VAL:HA	46:LL:119:VAL:HG12	1.93	0.49
45:MA:183:GLU:N	45:MA:184:PRO:HD2	2.27	0.49
45:MA:407:TRP:CZ2	46:MB:258:ILE:HD11	2.43	0.49
45:NA:183:GLU:N	45:NA:184:PRO:HD2	2.27	0.49
46:ND:113:ILE:HD13	46:ND:154:LYS:HZ1	1.76	0.49
46:NF:257:LEU:HD21	46:NF:368:VAL:HG13	1.94	0.49
45:NG:186:ASN:OD1	45:NG:187:SER:N	2.45	0.49
45:NI:141:VAL:HG22	45:NI:187:SER:HA	1.94	0.49
46:NJ:48:ASN:O	46:NJ:62:ARG:NH1	2.46	0.49
46:NJ:386:THR:OG1	46:NJ:390:ARG:NH2	2.45	0.49
45:NK:329:ASN:HD22	46:NN:175:VAL:HG12	1.75	0.49
45:NM:316:SER:O	45:NM:317:MET:HE2	2.12	0.49
45:OA:209:ILE:HD13	45:OA:302:MET:HG3	1.93	0.49
45:OE:121:ARG:HD2	45:OE:124:LYS:HZ1	1.77	0.49
46:OL:113:ILE:HD13	46:OL:150:LEU:HD21	1.93	0.49
45:OM:121:ARG:HD2	45:OM:124:LYS:HE3	1.94	0.49
45:PA:181:VAL:N	46:PB:350:LYS:HZ2	2.11	0.49
46:PF:238:CYS:SG	46:PF:239:CYS:N	2.85	0.49
45:PG:174:SER:HB3	45:PG:207:GLU:HG2	1.94	0.49
46:PH:344:TRP:HE3	46:PH:345:ILE:HG23	1.77	0.49
45:PI:3:GLU:HG2	45:PI:64:ARG:NH2	2.27	0.49
46:PJ:172:SER:HB2	46:PJ:380:ARG:HH12	1.76	0.49
46:PJ:267:MET:HE1	46:PJ:299:MET:HB3	1.95	0.49
45:PK:2:ARG:NH1	45:PK:242:LEU:HD22	2.27	0.49
45:PM:97:GLU:OE1	46:PN:131:GLN:NE2	2.45	0.49
45:QA:53:PHE:HB3	45:QA:61:HIS:HB3	1.93	0.49
45:QC:136:LEU:HD13	45:QC:167:LEU:HB2	1.95	0.49
46:QD:317:PHE:HB2	46:QD:353:ILE:HD13	1.94	0.49
45:QG:127:ASP:OD1	45:QG:128:ASN:N	2.46	0.49
45:QG:371:VAL:HG22	45:QG:373:ARG:H	1.77	0.49
46:QH:310:TYR:CD1	46:QH:371:SER:HB2	2.47	0.49
45:QI:265:ILE:HG12	45:QI:432:TYR:HE2	1.77	0.49
46:QL:87:PRO:HA	46:QL:90:PHE:CD2	2.44	0.49
46:RD:386:THR:O	46:RD:390:ARG:HG3	2.12	0.49
45:RG:183:GLU:N	45:RG:184:PRO:HD2	2.27	0.49
46:RH:256:ASN:HB3	46:RH:257:LEU:HD12	1.94	0.49
45:RK:183:GLU:N	45:RK:184:PRO:HD2	2.27	0.49
45:RK:292:THR:HG21	45:RK:331:SER:HB2	1.93	0.49
46:RL:1:MET:HG3	46:RL:2:ARG:HD3	1.94	0.49
45:SA:331:SER:O	45:SA:335:ILE:HG12	2.13	0.49
45:SC:103:PHE:H	45:SC:408:TYR:HE2	1.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SD:3:GLU:HB2	46:SD:127:CYS:SG	2.53	0.49
46:SH:178:THR:HB	46:SH:181:GLU:HG3	1.95	0.49
46:SJ:202:ILE:HD11	46:SJ:300:MET:HE2	1.93	0.49
46:SJ:405:GLU:HA	46:SJ:408:PHE:CD2	2.47	0.49
45:SK:133:GLN:O	45:SK:164:LYS:NZ	2.42	0.49
45:SK:183:GLU:N	45:SK:184:PRO:HD2	2.28	0.49
45:TA:109:THR:HG22	45:TA:110:ILE:HG23	1.93	0.49
45:TA:271:SER:OG	45:TA:301:MET:HG3	2.13	0.49
46:TB:164:MET:SD	46:TB:166:THR:HG23	2.52	0.49
45:TC:137:VAL:HG23	45:TC:168:GLY:HA2	1.93	0.49
45:TC:426:ALA:C	45:TC:430:LYS:HZ2	2.21	0.49
46:TD:138:SER:HA	46:TD:169:VAL:HB	1.94	0.49
46:TF:21:TRP:CZ3	46:TF:61:PRO:HB3	2.48	0.49
46:TF:199:CYS:HB3	46:TF:265:PHE:CD1	2.47	0.49
46:TJ:22:GLU:HG2	46:TJ:81:PHE:CD2	2.47	0.49
46:TJ:317:PHE:CD2	46:TJ:365:VAL:HG22	2.47	0.49
46:UB:86:ARG:HE	46:UB:88:ASP:HB3	1.77	0.49
46:UB:318:ARG:HB3	46:UB:364:ALA:HB3	1.95	0.49
46:UF:46:ARG:HH21	46:UF:241:ARG:C	2.20	0.49
46:UH:32:PRO:O	46:UH:83:GLN:NE2	2.41	0.49
46:UJ:233:MET:HA	46:UJ:233:MET:HE3	1.94	0.49
46:UL:6:HIS:HD2	46:UL:21:TRP:HE1	1.59	0.49
46:UL:345:ILE:HG22	45:UM:398:MET:SD	2.52	0.49
45:UM:237:SER:HA	45:UM:320:ARG:CZ	2.43	0.49
45:VA:260:VAL:HG13	46:VD:397:TRP:CZ2	2.47	0.49
46:VD:116:VAL:HA	46:VD:119:VAL:HG12	1.94	0.49
45:VE:224:TYR:HD1	45:VE:227:LEU:HD12	1.77	0.49
46:VF:303:ALA:HB2	46:VF:377:MET:HE3	1.94	0.49
45:VG:136:LEU:HD23	45:VG:167:LEU:HB2	1.94	0.49
46:VH:108:GLU:O	46:VH:111:GLU:HG3	2.13	0.49
45:VM:188:ILE:HD11	45:VM:391:LEU:HB3	1.94	0.49
45:WA:96:LYS:NZ	46:WB:1:MET:SD	2.80	0.49
45:WA:178:SER:HB2	46:WB:347:ASN:ND2	2.28	0.49
46:WD:388:MET:HE1	46:WD:394:PHE:CD1	2.47	0.49
46:WN:256:ASN:HB3	46:WN:350:LYS:HE3	1.94	0.49
1:0A:112:LEU:HD12	1:0A:112:LEU:O	2.12	0.49
2:0B:38:ARG:HG2	2:0B:60:ASN:HB3	1.94	0.49
2:0B:121:GLN:HE22	22:2M:19:LEU:HD21	1.77	0.49
4:0D:135:LYS:HD2	4:0D:138:GLN:NE2	2.27	0.49
5:0E:11:ARG:O	5:0E:14:SER:OG	2.29	0.49
5:0E:92:LEU:HG	5:0E:97:LYS:HD2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:0F:78:THR:O	6:0F:82:LEU:HG	2.12	0.49
6:0F:115:LEU:HG	6:0F:119:LYS:HZ1	1.77	0.49
13:0U:73:GLY:HA3	13:0U:105:ILE:HD11	1.95	0.49
15:0X:1:MET:H3	45:MA:249:ASN:HD22	1.59	0.49
8:1H:231:MET:HG3	8:1H:239:ARG:HH21	1.78	0.49
19:1J:169:ASP:OD1	19:1J:170:GLN:N	2.45	0.49
22:1M:326:PRO:O	22:1M:330:LYS:HG2	2.12	0.49
9:1N:425:LYS:HE2	9:1N:442:PHE:CD1	2.47	0.49
23:1O:232:GLY:HA3	46:TB:56:GLY:HA2	1.94	0.49
24:1P:130:GLN:O	24:1P:134:LYS:HG2	2.12	0.49
12:1T:269:LYS:HD3	13:1U:304:TRP:CE2	2.48	0.49
15:1X:99:VAL:O	15:1X:102:GLU:HG3	2.13	0.49
1:2A:108:ARG:NH2	25:2R:34:ARG:HA	2.27	0.49
1:2A:142:THR:HG22	1:2A:143:HIS:H	1.77	0.49
4:2D:177:THR:HG21	46:EJ:47:ILE:HG12	1.93	0.49
20:2K:298:ARG:O	20:2K:301:THR:OG1	2.26	0.49
23:2O:173:GLU:HA	23:2O:176:ARG:HD2	1.94	0.49
23:2O:465:SER:O	23:2O:469:GLN:HG2	2.13	0.49
24:2P:495:PRO:HA	24:2P:498:LYS:HE3	1.95	0.49
10:2Q:125:LEU:HD12	10:2Q:130:ASN:HD21	1.76	0.49
25:2R:121:ARG:NH2	25:2R:138:GLU:OE1	2.41	0.49
25:2R:260:LYS:H	25:2R:349:THR:HG21	1.78	0.49
25:2R:480:GLN:N	25:2R:483:ASP:OD2	2.44	0.49
12:2T:21:HIS:HB2	12:2T:41:PHE:CZ	2.47	0.49
14:2V:136:THR:O	14:2V:139:VAL:HG22	2.12	0.49
14:2V:235:VAL:HG13	14:2V:239:ARG:NH2	2.27	0.49
26:2W:209:GLU:O	26:2W:212:GLN:HG3	2.12	0.49
1:3A:152:LYS:HE2	34:6R:75:ASN:O	2.11	0.49
31:3I:284:VAL:O	31:3I:285:ARG:HD2	2.13	0.49
25:3R:259:LEU:HB2	25:3R:273:TYR:HB3	1.93	0.49
25:3R:447:GLN:HE22	25:3R:466:LYS:HB2	1.77	0.49
15:3X:60:GLU:O	15:3X:63:GLU:HG3	2.12	0.49
27:4C:16:LYS:HG3	27:4C:95:ILE:HG22	1.93	0.49
34:4R:42:THR:O	34:4R:42:THR:HG22	2.13	0.49
37:5F:164:LYS:H	37:5F:165:PRO:CD	2.25	0.49
40:6G:278:ASP:OD1	45:VA:214:ARG:NE	2.46	0.49
44:8R:118:TYR:OH	45:OI:56:THR:HG23	2.12	0.49
46:AB:87:PRO:HA	46:AB:90:PHE:HD2	1.78	0.49
46:AH:69:GLU:CD	46:AH:71:GLY:H	2.20	0.49
46:AJ:282:ARG:NH2	46:MJ:86:ARG:HD2	2.28	0.49
46:AL:152:ILE:HD12	46:AL:164:MET:HE1	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AM:311:LYS:HD3	45:AM:342:GLN:HG3	1.95	0.49
46:AN:268:ILE:HG22	46:AN:368:VAL:HG22	1.94	0.49
46:BB:97:ALA:HB3	46:BB:143:THR:HB	1.92	0.49
45:BC:294:SER:O	45:BC:297:GLU:HG2	2.12	0.49
46:BF:198:GLU:HG2	46:BF:266:PHE:HE2	1.76	0.49
45:BG:176:GLN:NE2	45:BG:177:VAL:HG23	2.27	0.49
46:BH:86:ARG:HH21	46:BH:87:PRO:HD3	1.77	0.49
46:BH:377:MET:HA	46:BH:380:ARG:HG2	1.95	0.49
46:BJ:9:GLY:HA3	46:BJ:66:MET:SD	2.52	0.49
45:BK:90:GLU:HG3	45:CK:280:LYS:HZ1	1.77	0.49
45:BM:212:ILE:HD11	45:BM:300:ASN:HA	1.94	0.49
45:CA:101:ASN:HA	45:CA:144:GLY:H	1.78	0.49
45:CC:183:GLU:N	45:CC:184:PRO:HD2	2.28	0.49
46:CJ:318:ARG:HB3	46:CJ:357:PRO:HA	1.95	0.49
46:CL:406:MET:O	46:CL:410:GLU:HG2	2.13	0.49
45:DG:31:GLN:HB2	45:DG:32:PRO:HD2	1.93	0.49
45:DG:56:THR:HG21	45:DG:60:LYS:HG3	1.94	0.49
45:DG:328:VAL:O	45:DG:332:ILE:HD12	2.13	0.49
46:DL:49:VAL:HG21	46:DL:241:ARG:HG2	1.93	0.49
45:DM:269:LEU:HD22	45:DM:384:ILE:HD11	1.95	0.49
46:DN:207:LEU:HB3	46:DN:225:LEU:HD22	1.94	0.49
45:EA:108:TYR:HA	45:EA:112:LYS:HE3	1.95	0.49
45:EC:9:VAL:HG22	45:EC:146:GLY:HA2	1.93	0.49
45:EC:384:ILE:HG12	45:EC:388:PHE:HE1	1.77	0.49
46:EH:86:ARG:HD2	46:FH:282:ARG:NH2	2.28	0.49
45:FA:101:ASN:HA	45:FA:144:GLY:H	1.76	0.49
46:FB:12:CYS:O	46:FB:16:ILE:HG12	2.11	0.49
46:FH:318:ARG:HB3	46:FH:357:PRO:HA	1.95	0.49
45:FK:82:THR:HG23	45:FK:83:TYR:CD1	2.48	0.49
45:FK:231:ILE:O	45:FK:235:ILE:HG12	2.13	0.49
46:GF:105:HIS:CE1	46:GF:150:LEU:HD12	2.48	0.49
45:GG:90:GLU:OE1	45:GG:121:ARG:NH1	2.45	0.49
45:GG:343:PHE:CZ	45:GG:351:PHE:HE1	2.30	0.49
45:GI:102:ASN:HD21	45:GI:411:GLU:HG3	1.78	0.49
46:GL:397:TRP:O	46:GL:400:GLY:N	2.44	0.49
45:GM:224:TYR:HD1	45:GM:227:LEU:HD12	1.76	0.49
46:HB:58:ARG:NH2	46:IB:281:TYR:HA	2.26	0.49
45:HI:356:ASN:OD1	45:HI:357:TYR:N	2.45	0.49
45:HM:32:PRO:O	45:HM:85:GLN:NE2	2.42	0.49
45:IA:409:VAL:HA	45:IA:413:MET:O	2.13	0.49
46:IB:20:PHE:CD1	46:IB:233:MET:HE3	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IC:340:THR:HG23	45:IC:341:ILE:HG13	1.94	0.49
45:IC:377:MET:SD	45:IC:379:SER:HB3	2.52	0.49
46:ID:12:CYS:O	46:ID:16:ILE:HG12	2.12	0.49
45:IE:98:ASP:OD2	45:IE:99:ALA:N	2.46	0.49
45:IG:31:GLN:HE22	45:IG:37:PRO:HB3	1.78	0.49
46:IH:11:GLN:O	46:IH:15:GLN:HG2	2.11	0.49
45:II:414:GLU:CD	45:II:416:GLY:H	2.20	0.49
46:IL:190:HIS:CD2	46:IL:411:ALA:HA	2.47	0.49
46:JB:19:LYS:NZ	46:JB:227:HIS:HB2	2.28	0.49
45:JE:103:PHE:HB2	45:JE:186:ASN:HB3	1.94	0.49
45:JE:260:VAL:HG13	46:JH:397:TRP:HE1	1.78	0.49
45:JE:377:MET:HE1	45:JE:379:SER:HB3	1.95	0.49
46:JJ:149:THR:HA	46:JJ:152:ILE:HD12	1.93	0.49
45:JK:205:ASP:OD1	45:JK:303:ALA:HA	2.12	0.49
45:KA:167:LEU:HG	45:KA:200:VAL:HB	1.94	0.49
45:KA:175:PRO:HD2	45:KA:207:GLU:OE2	2.12	0.49
46:KB:169:VAL:HG12	46:KB:202:ILE:HB	1.95	0.49
46:KF:204:ASN:ND2	49:KF:501:GDP:O2'	2.45	0.49
46:KF:285:THR:HG22	46:KF:288:GLU:HG2	1.94	0.49
45:KG:223:THR:HG23	45:KG:225:THR:H	1.77	0.49
45:KK:22:GLU:OE2	45:KK:83:TYR:HE2	1.95	0.49
45:KK:195:LEU:HD21	45:KK:264:ARG:NH1	2.28	0.49
46:KL:341:PHE:HB3	46:KL:348:ASN:HD21	1.77	0.49
46:KN:63:ALA:O	46:KN:89:ASN:ND2	2.46	0.49
46:KN:73:MET:HE1	46:KN:92:PHE:HB3	1.94	0.49
46:KN:152:ILE:HG23	46:KN:164:MET:SD	2.53	0.49
46:KN:317:PHE:HB2	46:KN:353:ILE:HD13	1.93	0.49
45:LA:17:GLY:HA2	45:LA:20:CYS:SG	2.52	0.49
45:LA:147:SER:HB2	45:LA:190:SER:OG	2.13	0.49
45:LE:414:GLU:OE1	45:LE:415:GLU:HG3	2.12	0.49
45:LM:265:ILE:HG22	45:LM:432:TYR:HE1	1.78	0.49
46:MD:370:ASN:OD1	46:MD:422:TYR:OH	2.30	0.49
45:NE:72:PRO:HD3	46:NF:2:ARG:HH22	1.77	0.49
45:NE:98:ASP:OD1	45:NE:99:ALA:N	2.45	0.49
45:NG:103:PHE:CE2	45:NG:189:LEU:HB3	2.48	0.49
46:NL:58:ARG:NH2	46:OL:280:GLN:O	2.44	0.49
45:NM:72:PRO:HD2	46:NN:2:ARG:HH21	1.77	0.49
45:OA:49:PHE:HD2	45:OA:53:PHE:HB2	1.77	0.49
46:OD:163:ILE:HD11	46:OD:251:ARG:HG3	1.94	0.49
45:OE:107:HIS:ND1	45:OE:107:HIS:O	2.46	0.49
45:OE:245:ASP:N	45:OE:245:ASP:OD1	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OG:326:LYS:NZ	46:OJ:220:PRO:O	2.35	0.49
46:OJ:204:ASN:OD1	49:OJ:501:GDP:O2'	2.29	0.49
46:ON:4:ILE:HD11	46:ON:131:GLN:HB2	1.94	0.49
46:ON:23:VAL:HA	46:ON:26:ASP:OD1	2.13	0.49
46:ON:32:PRO:HA	46:ON:84:LEU:HD21	1.94	0.49
46:ON:66:MET:HA	46:ON:91:VAL:O	2.12	0.49
46:PD:253:LEU:HD12	46:PD:257:LEU:HD13	1.94	0.49
45:PE:175:PRO:HA	45:PE:390:ARG:NH1	2.28	0.49
45:PE:352:LYS:NZ	46:PH:178:THR:OG1	2.32	0.49
45:PG:231:ILE:O	45:PG:235:ILE:HG12	2.13	0.49
45:PK:356:ASN:OD1	45:PK:357:TYR:N	2.45	0.49
46:PN:286:VAL:HA	46:PN:289:LEU:HD12	1.95	0.49
45:QA:169:PHE:CE2	45:QA:235:ILE:HD12	2.47	0.49
46:QB:54:ALA:HB3	46:QB:58:ARG:HG2	1.93	0.49
45:QC:319:TYR:CE2	45:QC:375:VAL:HB	2.48	0.49
45:QE:387:VAL:HA	45:QE:390:ARG:HG2	1.94	0.49
45:QG:20:CYS:HA	45:QG:232:ALA:HB1	1.94	0.49
46:QH:8:GLN:NE2	46:QH:14:ASN:HA	2.27	0.49
45:QI:55:GLU:HG3	45:QI:57:GLY:H	1.76	0.49
45:QK:183:GLU:N	45:QK:184:PRO:HD2	2.27	0.49
45:QM:326:LYS:HG2	46:QN:220:PRO:HD2	1.95	0.49
45:RA:183:GLU:N	45:RA:184:PRO:HD2	2.27	0.49
46:RB:398:TYR:HB3	46:RB:403:MET:SD	2.53	0.49
45:RE:141:VAL:HG22	45:RE:187:SER:HA	1.93	0.49
45:RG:67:PHE:HB2	45:RG:92:LEU:HD13	1.93	0.49
45:RK:166:LYS:N	45:RK:199:ASP:OD2	2.36	0.49
45:SA:231:ILE:O	45:SA:235:ILE:HG12	2.12	0.49
46:SB:167:PHE:HD2	46:SB:202:ILE:HD11	1.76	0.49
45:SG:53:PHE:O	45:SG:64:ARG:NE	2.43	0.49
45:SI:102:ASN:ND2	45:SI:105:ARG:HG3	2.27	0.49
46:SJ:117:LEU:HA	46:SJ:120:VAL:HG22	1.95	0.49
45:SK:98:ASP:CG	45:SK:100:ALA:H	2.20	0.49
46:SL:394:PHE:HB3	46:SL:397:TRP:CE3	2.47	0.49
45:SM:138:PHE:HE1	45:SM:169:PHE:CD2	2.31	0.49
45:SM:223:THR:HG23	45:SM:225:THR:H	1.75	0.49
45:TA:184:PRO:O	45:TA:188:ILE:HG12	2.13	0.49
45:TE:88:HIS:CE1	45:TE:90:GLU:HG2	2.48	0.49
45:TK:9:VAL:HG13	45:TK:139:ASN:HB3	1.95	0.49
45:TK:184:PRO:O	45:TK:188:ILE:HG12	2.12	0.49
46:TL:21:TRP:HA	46:TL:24:ILE:HG12	1.94	0.49
46:UB:21:TRP:HA	46:UB:24:ILE:HG22	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UB:290:THR:HA	46:UB:293:MET:HG2	1.93	0.49
46:UB:309:ARG:H	46:UB:426:GLN:HE22	1.61	0.49
45:UE:226:ASN:HA	45:UE:229:ARG:HD2	1.94	0.49
45:UG:31:GLN:NE2	45:UG:37:PRO:HB3	2.22	0.49
45:UG:121:ARG:HA	45:UG:121:ARG:NH1	2.28	0.49
45:UM:77:GLU:O	45:UM:84:ARG:NH2	2.31	0.49
45:UM:83:TYR:C	45:UM:84:ARG:HD2	2.37	0.49
46:UN:6:HIS:HB3	46:UN:63:ALA:HA	1.95	0.49
45:VA:27:GLU:HB3	45:VA:361:THR:HG21	1.93	0.49
45:VA:254:GLU:HG2	46:VD:98:GLY:HA2	1.93	0.49
46:VB:97:ALA:HB3	46:VB:143:THR:HB	1.92	0.49
46:VB:186:THR:HA	46:VB:189:VAL:HG12	1.94	0.49
45:VC:145:THR:OG1	47:VC:501:GTP:O3G	2.26	0.49
45:VC:330:ALA:O	45:VC:334:THR:HG23	2.12	0.49
45:VG:430:LYS:O	45:VG:433:GLU:HG2	2.13	0.49
45:VI:258:ASN:ND2	45:VI:352:LYS:HE3	2.27	0.49
45:VI:326:LYS:HD2	45:VI:326:LYS:H	1.77	0.49
46:VJ:237:THR:HG23	46:VJ:241:ARG:HH21	1.78	0.49
46:VN:109:GLY:HA2	46:VN:147:MET:HE2	1.95	0.49
46:VN:267:MET:HG3	46:VN:301:CYS:SG	2.53	0.49
45:WA:155:GLU:HB3	45:WA:156:ARG:HH22	1.77	0.49
46:WB:4:ILE:HG23	46:WB:132:GLY:O	2.12	0.49
45:WE:107:HIS:ND1	45:WE:107:HIS:O	2.46	0.49
46:WF:140:GLY:HA2	46:WF:181:GLU:OE2	2.13	0.49
45:WK:60:LYS:HG2	45:WK:61:HIS:N	2.27	0.49
46:WL:167:PHE:CE1	46:WL:233:MET:HE1	2.47	0.49
45:CE:319:TYR:CD2	45:CE:323:VAL:HG21	2.47	0.49
1:0A:33:GLN:C	46:MB:320:ARG:HH22	2.21	0.49
3:0C:35:SER:HB3	3:0C:62:TYR:HB2	1.94	0.49
4:0D:167:ILE:HG23	45:EC:80:THR:HG22	1.94	0.49
7:0G:107:LEU:HD12	7:0G:108:SER:N	2.27	0.49
9:0N:211:HIS:CD2	9:0N:213:PRO:HD2	2.46	0.49
13:0U:9:ALA:HB3	13:0U:601:ILE:HD11	1.94	0.49
8:1H:358:GLU:O	8:1H:361:ARG:HG3	2.13	0.49
19:1J:374:ASP:HA	19:1J:377:GLU:CD	2.37	0.49
20:1K:212:ARG:NH2	45:GA:370:LYS:HG3	2.25	0.49
21:1L:301:VAL:O	21:1L:339:VAL:N	2.43	0.49
9:1N:170:GLU:N	9:1N:170:GLU:OE2	2.45	0.49
9:1N:400:ASN:HB3	9:1N:460:ARG:NH2	2.27	0.49
24:1P:203:GLU:CD	24:1P:206:ARG:HH12	2.21	0.49
24:1P:337:GLN:CD	45:TC:29:GLY:HA2	2.38	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:1Q:38:THR:H	35:4S:208:GLN:NE2	2.10	0.49
10:1Q:108:TYR:HE2	45:AC:420:GLU:HB3	1.78	0.49
25:1R:236:MET:HE1	45:BC:1:MET:SD	2.52	0.49
13:1U:323:ILE:HG21	13:1U:593:VAL:HB	1.95	0.49
1:2A:67:PRO:HG3	46:MJ:53:GLU:CG	2.42	0.49
4:2D:42:ASP:HB3	46:DJ:1:MET:HE3	1.95	0.49
20:2K:369:ILE:HG13	20:2K:370:LYS:HD3	1.93	0.49
20:2K:409:ALA:HA	20:2K:412:GLU:OE1	2.12	0.49
21:2L:430:LEU:HD12	21:2L:433:LEU:HD22	1.94	0.49
23:2O:447:GLU:O	23:2O:450:LYS:HG3	2.13	0.49
24:2P:418:GLN:HE21	46:TL:276:ARG:NH1	2.11	0.49
25:2R:135:GLU:OE2	25:2R:154:ARG:HB2	2.12	0.49
25:2R:152:LEU:HA	46:AJ:78:ALA:O	2.13	0.49
25:2R:344:GLY:HA3	25:2R:364:GLY:HA2	1.93	0.49
11:2S:242:ASP:N	11:2S:242:ASP:OD2	2.46	0.49
13:2U:124:ASP:HB2	46:WJ:276:ARG:HH12	1.77	0.49
15:2X:45:GLN:NE2	45:MI:282:TYR:CG	2.80	0.49
15:2X:49:ILE:O	15:2X:53:ILE:HG12	2.11	0.49
25:3R:410:TRP:HA	25:3R:442:ASN:HB2	1.95	0.49
25:3R:448:VAL:HG12	25:3R:463:PHE:HB3	1.95	0.49
27:4C:252:ASP:OD1	27:4C:253:GLU:N	2.44	0.49
10:4Q:102:ARG:HE	45:AI:430:LYS:NZ	2.09	0.49
36:5D:87:ARG:HD3	36:5D:87:ARG:H	1.78	0.49
10:5Q:41:ASP:HB2	10:5Q:129:TRP:HE1	1.78	0.49
41:6H:306:LYS:HE2	41:6H:306:LYS:HA	1.93	0.49
34:7R:516:MET:HE3	34:7R:526:ALA:HB2	1.95	0.49
45:AC:181:VAL:HG23	45:AC:182:VAL:HG13	1.93	0.49
46:AF:28:HIS:C	46:AF:43:GLN:HE21	2.20	0.49
45:AK:212:ILE:HD11	45:AK:300:ASN:HA	1.94	0.49
46:AN:238:CYS:SG	46:AN:318:ARG:HD2	2.53	0.49
45:BA:175:PRO:HA	45:BA:390:ARG:HE	1.78	0.49
45:BC:231:ILE:O	45:BC:235:ILE:HG12	2.12	0.49
46:BD:237:THR:O	46:BD:241:ARG:NH1	2.45	0.49
45:BG:230:LEU:O	45:BG:234:VAL:HG23	2.12	0.49
45:BG:387:VAL:HG12	45:BG:390:ARG:NH1	2.27	0.49
45:BI:331:SER:O	45:BI:335:ILE:HG12	2.13	0.49
45:BI:414:GLU:CD	45:BI:416:GLY:H	2.21	0.49
46:BJ:318:ARG:HB3	46:BJ:357:PRO:HA	1.95	0.49
45:BM:171:ILE:O	45:BM:171:ILE:HG13	2.12	0.49
45:BM:384:ILE:O	45:BM:387:VAL:HG22	2.12	0.49
45:CA:294:SER:O	45:CA:297:GLU:HG2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CJ:324:LYS:NZ	45:CK:221:ARG:HA	2.25	0.49
45:CK:104:ALA:HB2	45:CK:413:MET:HG3	1.94	0.49
46:CN:309:ARG:NH2	46:CN:426:GLN:O	2.37	0.49
45:DA:88:HIS:HB3	45:DA:91:GLN:HG2	1.95	0.49
46:DB:4:ILE:HG13	46:DB:132:GLY:O	2.12	0.49
45:DE:384:ILE:O	45:DE:387:VAL:HG22	2.12	0.49
46:DF:65:LEU:HD22	46:DF:90:PHE:CE1	2.47	0.49
45:DK:215:ARG:HG3	45:DK:216:ASN:OD1	2.12	0.49
46:DL:344:TRP:CD1	45:DM:401:LYS:HZ1	2.30	0.49
45:EA:37:PRO:HG2	45:EA:40:LYS:HD2	1.93	0.49
46:EB:167:PHE:CE2	46:EB:233:MET:HG2	2.47	0.49
45:EE:20:CYS:HA	45:EE:232:ALA:HB1	1.95	0.49
45:EG:301:MET:HA	45:EG:301:MET:HE3	1.95	0.49
46:EH:177:ASP:OD2	49:EH:501:GDP:H3'	2.11	0.49
45:EK:183:GLU:N	45:EK:184:PRO:HD2	2.28	0.49
46:EN:105:HIS:CD2	46:EN:150:LEU:HB2	2.47	0.49
45:FC:407:TRP:CZ2	46:FD:258:ILE:HD11	2.40	0.49
45:FG:178:SER:OG	45:FG:183:GLU:OE1	2.31	0.49
45:FG:377:MET:HE1	45:FG:379:SER:HB3	1.95	0.49
45:FM:109:THR:HG22	45:FM:110:ILE:HG23	1.93	0.49
45:GA:208:ALA:O	45:GA:212:ILE:HG12	2.13	0.49
45:GA:390:ARG:O	45:GA:394:LYS:HG3	2.12	0.49
46:GB:207:LEU:HD13	46:GB:225:LEU:HB3	1.95	0.49
46:GB:285:THR:HB	46:GB:287:PRO:HD2	1.95	0.49
45:GG:73:THR:O	45:GG:76:ASP:N	2.44	0.49
45:GK:80:THR:O	45:GK:84:ARG:NH2	2.27	0.49
45:HA:185:TYR:OH	45:HA:398:MET:HG3	2.13	0.49
46:HB:49:VAL:C	46:HB:62:ARG:HH21	2.19	0.49
46:HD:6:HIS:O	46:HD:63:ALA:HA	2.12	0.49
45:HG:317:MET:HE2	45:HG:377:MET:HE2	1.93	0.49
45:HM:231:ILE:O	45:HM:235:ILE:HG12	2.12	0.49
46:HN:32:PRO:HB3	46:HN:81:PHE:HA	1.94	0.49
46:IB:16:ILE:HD12	46:IB:229:VAL:HG21	1.95	0.49
46:ID:64:ILE:HD13	46:ID:119:VAL:HG13	1.95	0.49
46:IH:167:PHE:CE2	46:IH:233:MET:HE3	2.48	0.49
45:II:387:VAL:HA	45:II:390:ARG:HG2	1.95	0.49
45:IK:74:VAL:O	45:IK:77:GLU:HG3	2.13	0.49
46:IL:73:MET:CE	46:IL:92:PHE:HB3	2.42	0.49
45:IM:406:HIS:CE1	46:IN:261:PRO:HD3	2.47	0.49
45:IM:414:GLU:CD	45:IM:416:GLY:H	2.21	0.49
45:JG:330:ALA:O	45:JG:334:THR:HG23	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JL:139:LEU:HD12	46:JL:170:VAL:HG12	1.95	0.49
46:KB:63:ALA:O	46:KB:89:ASN:ND2	2.37	0.49
45:KG:11:GLN:HG2	45:KG:74:VAL:HG11	1.94	0.49
45:KI:227:LEU:O	45:KI:231:ILE:HG12	2.13	0.49
45:KI:321:GLY:HA3	45:KI:372:MET:O	2.12	0.49
46:KL:3:GLU:HA	46:KL:49:VAL:HG23	1.94	0.49
45:LG:15:GLN:OE1	47:LG:501:GTP:N7	2.46	0.49
45:LK:66:VAL:HG11	45:LK:122:ILE:HD11	1.95	0.49
45:LM:30:ILE:HD13	45:LM:36:MET:SD	2.53	0.49
46:LN:20:PHE:CD1	46:LN:233:MET:HE2	2.48	0.49
46:MB:1:MET:HG3	46:MB:2:ARG:H	1.76	0.49
46:MB:423:GLN:NE2	46:MB:424:GLN:OE1	2.45	0.49
45:ME:319:TYR:CB	45:ME:323:VAL:HG11	2.43	0.49
46:MJ:238:CYS:SG	46:MJ:239:CYS:N	2.86	0.49
45:MM:222:PRO:HD2	46:MN:324:LYS:HG2	1.95	0.49
46:ND:187:LEU:HD11	46:ND:408:PHE:HE2	1.78	0.49
46:NF:242:PHE:HB3	46:NF:356:ILE:HD13	1.94	0.49
45:NI:98:ASP:OD1	45:NI:99:ALA:N	2.45	0.49
46:NJ:314:SER:HA	46:NJ:350:LYS:HB2	1.93	0.49
46:NN:318:ARG:HB3	46:NN:357:PRO:HA	1.95	0.49
45:OA:200:VAL:HG13	45:OA:268:MET:CE	2.43	0.49
45:OA:270:SER:HA	45:OA:377:MET:O	2.13	0.49
46:OB:68:LEU:HD12	46:OB:143:THR:OG1	2.12	0.49
45:OC:49:PHE:HB2	45:OC:53:PHE:HB2	1.93	0.49
45:OC:80:THR:O	45:OC:84:ARG:NH2	2.45	0.49
45:OC:336:LYS:HE3	45:OC:336:LYS:HA	1.94	0.49
46:OF:67:ASP:OD2	46:OF:68:LEU:N	2.42	0.49
46:OF:148:GLY:O	46:OF:152:ILE:HG12	2.11	0.49
45:OG:152:LEU:O	45:OG:155:GLU:HG3	2.11	0.49
45:OK:21:TRP:CZ2	45:OK:65:ALA:HB2	2.47	0.49
45:PA:258:ASN:CB	45:PA:352:LYS:HE3	2.42	0.49
45:PC:324:VAL:CG1	45:PC:326:LYS:HE2	2.41	0.49
46:PD:2:ARG:HD2	46:PD:131:GLN:HE21	1.77	0.49
45:PG:93:ILE:HG21	45:PG:117:LEU:HD11	1.95	0.49
45:PG:155:GLU:HA	45:PG:197:HIS:CD2	2.47	0.49
46:PH:226:ASN:ND2	49:PH:501:GDP:HN1	2.08	0.49
45:PI:71:GLU:OE2	46:PJ:2:ARG:NH2	2.46	0.49
46:PL:73:MET:HA	46:PL:76:VAL:HG12	1.95	0.49
46:PL:314:SER:HA	46:PL:350:LYS:HB3	1.95	0.49
46:PN:119:VAL:O	46:PN:123:GLU:OE1	2.31	0.49
46:QD:187:LEU:HD21	46:QD:408:PHE:HE2	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QE:223:THR:HG23	45:QE:225:THR:H	1.78	0.49
46:QF:226:ASN:HA	46:QF:229:VAL:HG12	1.93	0.49
45:QG:183:GLU:N	45:QG:184:PRO:HD2	2.27	0.49
45:QI:260:VAL:HG23	46:QJ:397:TRP:HE1	1.78	0.49
45:QK:188:ILE:HD12	45:QK:425:LEU:HD11	1.94	0.49
45:RA:294:SER:O	45:RA:300:ASN:ND2	2.24	0.49
45:RC:12:GLY:HA2	45:RC:15:GLN:HE21	1.77	0.49
45:RC:268:MET:HB2	45:RC:379:SER:O	2.12	0.49
45:RE:183:GLU:N	45:RE:184:PRO:HD2	2.28	0.49
46:RH:10:GLY:O	46:RH:14:ASN:ND2	2.45	0.49
46:RH:156:ARG:HD3	46:RH:160:PRO:HA	1.95	0.49
46:RL:258:ILE:HG13	46:RL:266:PHE:HZ	1.76	0.49
46:RL:272:PRO:HG3	46:RL:289:LEU:HD21	1.94	0.49
45:SC:288:VAL:HA	45:SC:291:ILE:HG22	1.93	0.49
45:SC:371:VAL:HG22	45:SC:373:ARG:H	1.77	0.49
46:SF:346:PRO:HD2	45:SG:398:MET:HE2	1.93	0.49
46:SH:334:GLN:HA	46:SH:341:PHE:HE2	1.77	0.49
45:SI:56:THR:HG23	45:SI:58:ALA:H	1.78	0.49
45:SK:326:LYS:HD2	46:SL:212:PHE:CZ	2.48	0.49
45:TA:231:ILE:O	45:TA:235:ILE:HG12	2.12	0.49
45:TE:231:ILE:O	45:TE:235:ILE:HG12	2.13	0.49
46:TF:12:CYS:O	46:TF:16:ILE:HG12	2.13	0.49
46:TF:118:ASP:OD1	46:TF:121:ARG:NH1	2.46	0.49
46:TF:119:VAL:O	46:TF:122:LYS:HG3	2.12	0.49
45:TI:21:TRP:CZ2	45:TI:65:ALA:HB2	2.48	0.49
46:TJ:25:SER:OG	46:TJ:51:TYR:OH	2.25	0.49
46:TL:344:TRP:HA	45:TM:397:LEU:HD21	1.94	0.49
45:UA:326:LYS:NZ	46:UB:220:PRO:O	2.24	0.49
45:UG:89:PRO:CD	45:VE:280:LYS:HE2	2.40	0.49
45:UG:287:SER:N	45:UG:290:GLU:OE2	2.45	0.49
45:UG:340:THR:HG23	45:UG:341:ILE:HG13	1.94	0.49
46:UH:9:GLY:HA3	46:UH:66:MET:SD	2.52	0.49
46:UH:267:MET:HB3	46:UH:299:MET:CE	2.41	0.49
45:UI:183:GLU:N	45:UI:184:PRO:HD2	2.27	0.49
45:VA:294:SER:O	45:VA:300:ASN:ND2	2.27	0.49
46:VB:118:ASP:HA	46:VB:121:ARG:NH1	2.28	0.49
46:VJ:309:ARG:NH2	46:VJ:426:GLN:O	2.39	0.49
46:VJ:330:MET:N	46:VJ:330:MET:HE2	2.27	0.49
46:VL:152:ILE:HD12	46:VL:164:MET:HE2	1.94	0.49
46:VL:280:GLN:HG2	46:VL:281:TYR:HD1	1.77	0.49
46:VN:32:PRO:O	46:VN:83:GLN:NE2	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WC:335:ILE:HD13	45:WC:338:LYS:HZ1	1.77	0.49
45:WE:8:HIS:HB2	45:WE:67:PHE:CD1	2.47	0.49
46:WF:318:ARG:HH11	46:WF:358:PRO:HG3	1.78	0.49
46:WH:226:ASN:HA	46:WH:229:VAL:HG12	1.95	0.49
2:0B:218:VAL:HG21	2:0B:255:LEU:HD21	1.93	0.49
4:0D:55:GLY:N	45:EC:221:ARG:HE	2.08	0.49
5:0E:60:THR:HA	46:DB:37:HIS:HD2	1.77	0.49
6:0F:206:LYS:HB3	6:0F:211:LEU:CD2	2.43	0.49
7:0G:43:SER:OG	7:0G:45:MET:O	2.29	0.49
8:0H:409:GLU:HG2	8:0H:410:LEU:HG	1.94	0.49
13:0U:267:GLN:HG3	13:0U:268:ASN:H	1.78	0.49
16:1B:180:GLU:OE2	26:1W:149:TYR:HB2	2.12	0.49
8:1H:335:ALA:O	8:1H:339:LYS:HD3	2.13	0.49
19:1J:111:TYR:HB3	46:HF:53:GLU:CD	2.38	0.49
22:1M:211:SER:O	22:1M:215:GLU:HG2	2.13	0.49
12:1T:32:TYR:HE1	12:1T:253:PRO:HD2	1.78	0.49
26:1W:222:ASN:O	26:1W:225:ARG:HG2	2.13	0.49
16:2B:275:PHE:CD2	16:2B:283:ILE:HD11	2.47	0.49
27:2C:237:LEU:HA	27:2C:240:GLU:HG3	1.93	0.49
20:2K:245:TRP:CZ2	46:GN:277:GLY:HA2	2.48	0.49
24:2P:439:HIS:HE1	45:TK:369:ALA:HB1	1.76	0.49
25:2R:92:TRP:H	25:2R:92:TRP:CD1	2.29	0.49
26:2W:189:ARG:N	45:KM:46:ASP:OD2	2.29	0.49
26:2W:226:ASP:HA	26:2W:229:LYS:NZ	2.26	0.49
31:3I:228:ARG:HG2	31:3I:229:PHE:CD1	2.48	0.49
31:3I:252:ASP:H	45:FI:96:LYS:HE3	1.77	0.49
12:3T:277:THR:HB	13:3U:46:ARG:HD3	1.95	0.49
13:3U:468:SER:CB	13:3U:472:SER:O	2.61	0.49
15:3X:45:GLN:NE2	45:MM:282:TYR:HB3	2.27	0.49
27:4C:69:VAL:HG22	46:LN:41:ASP:OD1	2.13	0.49
37:5E:87:LEU:HD11	37:5E:99:ARG:HH22	1.78	0.49
37:5G:121:GLU:OE1	45:OI:370:LYS:NZ	2.29	0.49
37:5G:165:PRO:HD2	37:5G:166:ARG:HH11	1.77	0.49
10:5Q:48:GLU:OE2	10:5Q:50:MET:HE2	2.12	0.49
35:5S:131:GLY:HA3	35:5S:135:ILE:HD11	1.94	0.49
39:6F:26:TRP:HE3	39:6F:30:ARG:HD3	1.78	0.49
34:7R:211:ALA:O	34:7R:214:THR:OG1	2.24	0.49
34:7R:268:GLU:OE1	46:DB:280:GLN:HG2	2.13	0.49
34:7R:401:VAL:HG12	46:EB:277:GLY:HA2	1.95	0.49
45:AC:171:ILE:HG23	45:AC:204:LEU:O	2.13	0.49
46:AD:281:TYR:OH	46:MD:83:GLN:OE1	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AK:241:SER:OG	45:AK:250:VAL:O	2.25	0.49
46:BD:384:GLN:NE2	46:BD:388:MET:HE3	2.27	0.49
45:BG:222:PRO:O	46:BH:322:SER:OG	2.13	0.49
46:BL:19:LYS:HA	46:BL:19:LYS:HE2	1.95	0.49
46:BL:222:TYR:O	46:BL:226:ASN:ND2	2.27	0.49
46:CB:268:ILE:HG13	46:CB:300:MET:HG3	1.93	0.49
46:CF:64:ILE:HD11	46:CF:123:GLU:HG3	1.94	0.49
46:CF:294:PHE:CD2	46:CF:333:VAL:HG11	2.48	0.49
45:CI:208:ALA:O	45:CI:212:ILE:HG12	2.12	0.49
45:CI:387:VAL:HA	45:CI:390:ARG:HD3	1.94	0.49
45:CI:387:VAL:HG23	45:CI:388:PHE:CD1	2.47	0.49
45:DA:176:GLN:NE2	45:DA:207:GLU:OE2	2.46	0.49
45:DE:260:VAL:HG23	46:DF:397:TRP:CZ2	2.47	0.49
46:DL:97:ALA:HB2	46:DL:143:THR:HB	1.94	0.49
46:DN:42:LEU:HA	46:DN:45:GLU:HG3	1.95	0.49
46:EB:105:HIS:CE1	46:EB:150:LEU:HD12	2.48	0.49
45:EG:188:ILE:HG23	45:EG:425:LEU:HD11	1.93	0.49
45:EI:311:LYS:N	45:EI:382:THR:OG1	2.40	0.49
45:EK:30:ILE:HD13	45:EK:36:MET:HE1	1.95	0.49
46:FD:105:HIS:CE1	46:FD:150:LEU:HD12	2.47	0.49
45:FE:205:ASP:OD1	45:FE:303:ALA:HA	2.13	0.49
45:FI:353:VAL:HG12	46:FL:177:ASP:OD1	2.12	0.49
45:FM:183:GLU:N	45:FM:184:PRO:HD2	2.27	0.49
45:GE:104:ALA:HB2	45:GE:413:MET:HE2	1.93	0.49
45:GG:208:ALA:O	45:GG:212:ILE:HG12	2.13	0.49
45:GI:183:GLU:N	45:GI:184:PRO:HD2	2.28	0.49
46:HB:240:LEU:HD21	46:HB:250:LEU:HG	1.94	0.49
46:HB:271:ALA:CB	46:HB:293:MET:HE3	2.37	0.49
46:HD:12:CYS:O	46:HD:16:ILE:HG12	2.12	0.49
46:HF:200:MET:HG2	46:HF:266:PHE:HB2	1.93	0.49
45:HG:31:GLN:OE1	45:HG:37:PRO:HD3	2.12	0.49
45:HG:237:SER:HA	45:HG:320:ARG:HH11	1.76	0.49
45:HI:89:PRO:HD3	45:II:283:HIS:HD1	1.76	0.49
45:HK:396:ASP:OD1	45:HK:397:LEU:N	2.45	0.49
45:HM:188:ILE:HD11	45:HM:391:LEU:HB3	1.95	0.49
45:IA:49:PHE:O	45:IA:53:PHE:N	2.37	0.49
45:IE:163:LYS:HA	45:IE:163:LYS:HE2	1.94	0.49
45:IG:180:ALA:HA	46:IH:350:LYS:NZ	2.28	0.49
45:IG:387:VAL:HA	45:IG:390:ARG:HG2	1.93	0.49
45:II:97:GLU:OE2	45:II:105:ARG:NH1	2.33	0.49
45:IK:237:SER:HA	45:IK:320:ARG:HH11	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:IN:213:ARG:HD2	46:IN:297:LYS:HE2	1.94	0.49
46:JB:377:MET:HA	46:JB:377:MET:HE3	1.95	0.49
46:JF:178:THR:OG1	46:JF:181:GLU:HG3	2.13	0.49
46:JF:374:ILE:O	46:JF:377:MET:HG2	2.13	0.49
46:JL:3:GLU:OE2	46:JL:3:GLU:N	2.45	0.49
45:JM:75:ILE:HG23	45:JM:92:LEU:HB3	1.94	0.49
46:JN:224:ASP:HA	46:JN:227:HIS:HB2	1.95	0.49
45:KA:17:GLY:HA2	45:KA:20:CYS:SG	2.53	0.49
46:KB:372:THR:HG21	46:KB:426:GLN:HB3	1.95	0.49
46:KD:289:LEU:HD13	46:KD:365:VAL:HG23	1.95	0.49
45:KE:141:VAL:HG12	45:KE:171:ILE:O	2.12	0.49
46:KJ:299:MET:HA	46:KJ:299:MET:HE3	1.95	0.49
45:KK:319:TYR:CE2	45:KK:328:VAL:HG22	2.48	0.49
46:KN:286:VAL:HG22	46:KN:363:MET:HE1	1.94	0.49
45:LE:183:GLU:N	45:LE:184:PRO:HD2	2.28	0.49
46:LH:186:THR:HA	46:LH:189:VAL:HG12	1.94	0.49
45:LI:223:THR:HG22	45:LI:224:TYR:N	2.25	0.49
45:LK:209:ILE:HD11	45:LK:302:MET:HG3	1.95	0.49
46:LL:212:PHE:CE1	46:LL:220:PRO:HG2	2.48	0.49
46:MB:63:ALA:O	46:MB:89:ASN:ND2	2.40	0.49
45:MC:49:PHE:HB2	45:MC:53:PHE:HB2	1.94	0.49
45:ME:178:SER:HB3	46:MF:347:ASN:ND2	2.27	0.49
46:MF:107:THR:HG23	46:MF:108:GLU:HG3	1.94	0.49
46:MH:290:THR:HA	46:MH:293:MET:HE3	1.94	0.49
45:MI:102:ASN:ND2	45:MI:105:ARG:HG3	2.28	0.49
45:MK:326:LYS:HZ1	46:MN:208:TYR:C	2.21	0.49
45:NA:72:PRO:HG2	46:NB:1:MET:HE2	1.95	0.49
46:NB:173:PRO:HG3	46:NB:380:ARG:HD2	1.93	0.49
45:NE:90:GLU:HB2	45:NE:121:ARG:HH12	1.78	0.49
46:NF:127:CYS:SG	46:NF:130:LEU:HB2	2.53	0.49
46:NH:4:ILE:HG13	46:NH:132:GLY:O	2.11	0.49
46:NJ:321:MET:HE3	46:NJ:363:MET:HE2	1.95	0.49
46:NN:22:GLU:HB3	46:NN:81:PHE:HD2	1.77	0.49
46:NN:173:PRO:HD3	46:NN:380:ARG:HD3	1.94	0.49
45:OA:100:ALA:HA	46:OB:252:LYS:HE3	1.94	0.49
46:OB:286:VAL:HG11	46:OB:326:VAL:HG22	1.95	0.49
46:OL:152:ILE:HG23	46:OL:164:MET:HE2	1.94	0.49
46:ON:179:VAL:HG13	46:ON:180:VAL:HG13	1.95	0.49
46:PB:347:ASN:ND2	46:PB:349:ILE:HG22	2.27	0.49
45:PE:419:SER:O	45:PE:423:GLU:HG2	2.12	0.49
45:PG:200:VAL:HG13	45:PG:268:MET:SD	2.53	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PN:86:ARG:HB3	46:PN:89:ASN:OD1	2.13	0.49
46:PN:99:ASN:HA	46:PN:142:GLY:H	1.78	0.49
45:QA:88:HIS:HB3	45:QA:91:GLN:HG2	1.94	0.49
45:QC:223:THR:HG23	45:QC:225:THR:H	1.77	0.49
46:QD:238:CYS:HA	46:QD:241:ARG:NH1	2.28	0.49
45:QE:72:PRO:O	45:QE:76:ASP:HB2	2.13	0.49
45:QG:223:THR:HG23	45:QG:225:THR:H	1.77	0.49
46:QH:299:MET:HA	46:QH:299:MET:HE3	1.94	0.49
45:QI:269:LEU:HD11	45:QI:301:MET:HE3	1.95	0.49
46:QL:206:ALA:O	46:QL:210:ILE:HG12	2.13	0.49
46:QL:324:LYS:HB2	45:QM:210:TYR:CE1	2.48	0.49
46:QL:331:LEU:HD22	45:QM:176:GLN:HG2	1.94	0.49
45:QM:259:LEU:HD22	45:QM:268:MET:HE1	1.95	0.49
46:QN:97:ALA:HA	46:QN:103:LYS:HG2	1.95	0.49
46:RB:164:MET:HB3	46:RB:197:ASP:H	1.78	0.49
46:RB:379:LYS:O	46:RB:383:GLU:OE1	2.31	0.49
45:RC:93:ILE:HG22	45:RC:114:ILE:HD11	1.95	0.49
46:RD:325:GLU:HA	46:RD:328:GLU:HG2	1.95	0.49
46:RF:260:PHE:HB2	46:RF:263:LEU:HD13	1.95	0.49
46:RH:37:HIS:ND1	46:RH:37:HIS:O	2.46	0.49
46:RH:101:TRP:HB2	46:RH:184:ASN:HB3	1.95	0.49
46:RJ:97:ALA:HB3	46:RJ:143:THR:HB	1.94	0.49
46:RL:21:TRP:CZ3	46:RL:61:PRO:HB3	2.48	0.49
46:RN:135:ILE:HG13	46:RN:152:ILE:HD11	1.95	0.49
46:SH:66:MET:SD	46:SH:91:VAL:HG23	2.53	0.49
46:SJ:238:CYS:HB3	46:SJ:318:ARG:NH1	2.27	0.49
46:SJ:324:LYS:HE3	45:SK:222:PRO:HG2	1.94	0.49
45:SM:183:GLU:N	45:SM:184:PRO:HD2	2.28	0.49
45:TA:140:SER:OG	47:TA:501:GTP:O2B	2.31	0.49
45:TA:167:LEU:HG	45:TA:200:VAL:HB	1.95	0.49
45:TA:183:GLU:N	45:TA:184:PRO:HD2	2.27	0.49
46:TB:309:ARG:NH2	46:TB:426:GLN:O	2.37	0.49
45:TC:280:LYS:HE3	45:TC:284:GLU:OE2	2.13	0.49
46:TD:282:ARG:HE	46:TD:283:ALA:N	2.09	0.49
46:TD:385:PHE:CZ	46:TD:408:PHE:HD2	2.19	0.49
45:TE:74:VAL:O	45:TE:78:VAL:HG23	2.13	0.49
45:TE:226:ASN:HA	45:TE:229:ARG:HG2	1.95	0.49
46:TL:118:ASP:O	46:TL:121:ARG:HD3	2.12	0.49
46:TL:293:MET:SD	46:TL:365:VAL:HG11	2.53	0.49
45:TM:33:ASP:OD1	45:TM:85:GLN:NE2	2.43	0.49
45:TM:181:VAL:HG23	45:TM:182:VAL:HG13	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UA:183:GLU:N	45:UA:184:PRO:HD2	2.27	0.49
46:UB:247:ASN:OD1	45:UC:11:GLN:NE2	2.45	0.49
46:UD:41:ASP:OD1	46:UD:42:LEU:HD12	2.12	0.49
45:UG:10:GLY:O	45:UG:14:ILE:HG12	2.13	0.49
45:UK:346:TRP:CD1	46:UL:391:ARG:HG3	2.48	0.49
45:UM:237:SER:O	45:UM:320:ARG:NH2	2.45	0.49
45:UM:414:GLU:CD	45:UM:416:GLY:H	2.21	0.49
45:VA:103:PHE:HD2	45:VA:413:MET:HE1	1.77	0.49
45:VC:223:THR:HG23	45:VC:225:THR:H	1.78	0.49
45:VC:346:TRP:CD1	46:VF:391:ARG:HG3	2.48	0.49
46:VD:148:GLY:O	46:VD:152:ILE:HG12	2.13	0.49
46:VF:285:THR:O	46:VF:288:GLU:HG3	2.12	0.49
45:VG:107:HIS:O	45:VG:107:HIS:ND1	2.45	0.49
45:VG:239:THR:HG23	45:VG:243:ARG:HE	1.78	0.49
45:VK:256:GLN:NE2	45:VK:257:THR:HG23	2.27	0.49
46:WB:190:HIS:HD2	46:WB:411:ALA:HA	1.78	0.49
45:WM:317:MET:HE2	45:WM:319:TYR:CE1	2.48	0.49
46:WN:362:LYS:HD3	46:WN:363:MET:HG3	1.94	0.49
45:CE:171:ILE:HG13	45:CE:204:LEU:HB2	1.95	0.49
6:0F:77:LYS:HB2	6:0F:82:LEU:HD11	1.95	0.49
6:0F:134:PRO:O	6:0F:137:ARG:HG2	2.13	0.49
5:1E:29:ARG:HD2	5:1E:149:ASN:C	2.38	0.49
17:1F:157:LEU:HG	46:HL:337:ASN:ND2	2.27	0.49
8:1H:261:ARG:O	8:1H:265:GLU:HG3	2.12	0.49
19:1J:196:GLN:CG	19:1J:197:HIS:H	2.26	0.49
19:1J:363:PHE:O	19:1J:407:SER:OG	2.26	0.49
20:1K:172:ILE:O	20:1K:176:LYS:HG2	2.13	0.49
22:1M:7:ILE:HD13	45:IC:43:GLY:HA2	1.94	0.49
22:1M:254:ILE:O	22:1M:258:LEU:HD23	2.13	0.49
11:1S:181:LYS:HD3	11:1S:226:ILE:HD11	1.95	0.49
13:1U:381:TRP:CD1	13:1U:387:ARG:HD2	2.47	0.49
14:1V:141:ASN:HD22	45:LK:402:ARG:HB3	1.77	0.49
28:2F:12:GLN:OE1	28:2F:16:LYS:NZ	2.41	0.49
20:2K:301:THR:HG23	46:GL:276:ARG:NH2	2.28	0.49
21:2L:331:VAL:HG22	21:2L:340:ARG:HD3	1.94	0.49
21:2L:525:LEU:HD23	46:BN:362:LYS:HB3	1.95	0.49
21:2L:584:PHE:O	21:2L:588:ILE:HG12	2.12	0.49
22:2M:5:ARG:HG3	22:2M:5:ARG:HH11	1.78	0.49
25:2R:87:LEU:HA	45:MG:85:GLN:HE22	1.76	0.49
25:2R:391:SER:O	46:EH:276:ARG:HG2	2.12	0.49
13:2U:149:VAL:HA	13:2U:166:LEU:HA	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:2U:404:HIS:CD2	13:2U:408:VAL:HG22	2.48	0.49
26:2W:278:MET:HG3	26:2W:279:TYR:CD1	2.47	0.49
5:3E:19:ARG:HH21	5:3E:24:ILE:HA	1.78	0.49
31:3I:271:LYS:O	31:3I:272:ARG:HG2	2.12	0.49
21:3L:198:ILE:HA	21:3L:206:VAL:HG12	1.95	0.49
10:3Q:131:GLN:HE22	10:3Q:133:GLN:HB3	1.77	0.49
25:3R:296:PRO:HB2	25:3R:297:LEU:HD12	1.95	0.49
12:3T:143:PHE:CE2	12:3T:222:LEU:HD22	2.48	0.49
12:3T:272:SER:O	13:3U:315:ARG:HD2	2.12	0.49
13:3U:458:LYS:HZ1	13:3U:462:ASP:HB2	1.78	0.49
27:4C:128:ALA:HB1	27:4C:150:VAL:HG12	1.94	0.49
37:5F:129:ARG:HH21	37:5F:130:PRO:HD2	1.77	0.49
34:5R:311:LYS:HG3	34:5R:329:TYR:CZ	2.48	0.49
35:5S:184:ARG:HA	35:5S:240:MET:HE3	1.95	0.49
34:6R:80:ARG:NH2	45:MM:31:GLN:OE1	2.46	0.49
45:AA:387:VAL:HA	45:AA:390:ARG:HG2	1.95	0.49
45:AG:172:TYR:HE1	45:AG:203:MET:HE1	1.78	0.49
45:BE:93:ILE:HD11	45:BE:121:ARG:HG3	1.95	0.49
45:BE:395:PHE:HZ	45:BE:418:PHE:HB3	1.77	0.49
45:BG:79:ARG:HH21	45:BG:92:LEU:HB2	1.77	0.49
46:BH:316:LEU:HB2	46:BH:366:THR:HG22	1.93	0.49
46:BL:103:LYS:HB3	46:BL:401:GLU:OE1	2.13	0.49
46:BL:150:LEU:O	46:BL:154:LYS:HG2	2.12	0.49
45:BM:178:SER:OG	46:BN:347:ASN:HB3	2.13	0.49
45:BM:430:LYS:O	45:BM:434:GLU:OE1	2.29	0.49
46:BN:201:VAL:O	46:BN:202:ILE:HD13	2.13	0.49
45:CA:250:VAL:HG13	45:CA:254:GLU:HB2	1.94	0.49
46:CB:213:ARG:NH2	46:CB:297:LYS:HG3	2.27	0.49
45:CC:223:THR:HG22	45:CC:224:TYR:N	2.28	0.49
46:CD:9:GLY:HA2	46:CD:66:MET:O	2.13	0.49
46:CD:238:CYS:SG	46:CD:239:CYS:N	2.85	0.49
46:CF:294:PHE:HZ	46:CF:330:MET:HE1	1.77	0.49
45:CG:128:ASN:C	45:CG:128:ASN:HD22	2.18	0.49
46:CJ:39:ASP:OD1	46:CJ:40:SER:N	2.46	0.49
45:CK:313:MET:HE2	45:CK:382:THR:HG22	1.93	0.49
45:CK:430:LYS:O	45:CK:433:GLU:HG3	2.12	0.49
46:DH:69:GLU:CD	46:DH:71:GLY:H	2.21	0.49
46:DL:209:ASP:HB3	46:DL:213:ARG:HE	1.77	0.49
45:EA:231:ILE:O	45:EA:235:ILE:HG12	2.12	0.49
45:EC:183:GLU:N	45:EC:184:PRO:HD2	2.28	0.49
45:EC:215:ARG:NH2	45:EC:299:ALA:O	2.40	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EC:269:LEU:HB2	45:EC:301:MET:CE	2.43	0.49
46:ED:208:TYR:HE1	46:ED:225:LEU:HD11	1.77	0.49
46:EF:2:ARG:HH12	45:EG:71:GLU:HG2	1.77	0.49
46:EF:100:ASN:HB3	46:EF:103:LYS:HB3	1.93	0.49
46:EH:174:LYS:HB2	46:EH:205:GLU:HG3	1.95	0.49
46:FD:132:GLY:HA3	46:FD:163:ILE:HG22	1.95	0.49
46:FF:230:SER:HA	46:FF:233:MET:HE3	1.93	0.49
45:FG:221:ARG:NH1	46:FH:322:SER:OG	2.46	0.49
45:FI:332:ILE:HD12	45:FI:351:PHE:CD2	2.48	0.49
46:FJ:201:VAL:HG23	46:FJ:301:CYS:SG	2.52	0.49
45:FK:384:ILE:HG23	45:FK:432:TYR:HE1	1.77	0.49
45:FM:408:TYR:HB3	45:FM:413:MET:HE3	1.94	0.49
45:GC:2:ARG:HD3	45:GC:2:ARG:H	1.78	0.49
46:GD:208:TYR:HA	46:GD:211:CYS:SG	2.53	0.49
45:GE:113:GLU:OE1	45:GE:113:GLU:N	2.46	0.49
46:GF:262:ARG:NH1	46:GF:421:GLU:OE2	2.45	0.49
46:GH:55:THR:HG23	46:HH:283:ALA:HA	1.95	0.49
45:GI:212:ILE:HD11	45:GI:300:ASN:HA	1.94	0.49
46:GN:68:LEU:HD12	46:GN:93:GLY:HA3	1.95	0.49
46:HB:199:CYS:O	46:HB:265:PHE:HA	2.12	0.49
45:HC:181:VAL:HG12	46:HD:256:ASN:OD1	2.12	0.49
45:HG:88:HIS:ND1	45:HG:90:GLU:HG3	2.27	0.49
45:HG:430:LYS:O	45:HG:433:GLU:HG3	2.12	0.49
46:HJ:73:MET:HE1	46:HJ:92:PHE:CD1	2.47	0.49
46:HJ:257:LEU:HA	46:HJ:312:THR:HG21	1.95	0.49
46:HL:31:ASP:OD1	46:HL:35:THR:N	2.38	0.49
45:HM:211:ASP:OD1	45:HM:214:ARG:NH1	2.45	0.49
46:HN:61:PRO:HD3	46:HN:84:LEU:HG	1.93	0.49
46:IB:48:ASN:O	46:IB:62:ARG:NH2	2.46	0.49
45:IG:68:LEU:HD21	45:IG:118:CYS:SG	2.52	0.49
45:IG:256:GLN:OE1	45:IG:256:GLN:N	2.44	0.49
46:IL:1:MET:N	46:IL:48:ASN:HD21	2.11	0.49
46:IN:375:GLN:OE1	46:IN:423:GLN:HB3	2.13	0.49
46:JB:161:ASP:OD1	46:JB:162:ARG:HG2	2.12	0.49
46:JF:321:MET:N	46:JF:321:MET:SD	2.86	0.49
45:JG:287:SER:HA	45:JG:373:ARG:HH21	1.77	0.49
46:JH:65:LEU:HD21	46:JH:90:PHE:CE1	2.48	0.49
46:JJ:141:GLY:O	46:JJ:145:SER:HB3	2.12	0.49
45:JK:188:ILE:HG13	45:JK:189:LEU:N	2.28	0.49
46:JL:5:VAL:HG12	46:JL:62:ARG:HD3	1.94	0.49
45:KE:56:THR:OG1	45:LE:283:HIS:O	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KG:265:ILE:HG22	45:KG:432:TYR:CE1	2.47	0.49
46:KH:65:LEU:HD12	46:KH:90:PHE:CE1	2.48	0.49
46:KJ:163:ILE:HD11	46:KJ:251:ARG:HD2	1.93	0.49
45:LE:160:ASP:C	45:LE:161:TYR:HD1	2.21	0.49
45:LE:238:LEU:HD21	45:LE:255:PHE:HE2	1.76	0.49
45:LE:395:PHE:HZ	45:LE:418:PHE:HB3	1.77	0.49
46:LH:67:ASP:OD1	46:LH:68:LEU:N	2.43	0.49
45:LM:217:LEU:HD12	45:LM:367:ASP:HB3	1.94	0.49
46:MF:31:ASP:OD2	46:MF:35:THR:OG1	2.26	0.49
46:MJ:286:VAL:O	46:MJ:290:THR:HG23	2.12	0.49
45:NA:141:VAL:HG12	45:NA:172:TYR:HA	1.95	0.49
46:NB:162:ARG:HG3	46:NB:163:ILE:N	2.27	0.49
46:NB:221:THR:HG23	46:NB:223:GLY:N	2.27	0.49
46:NF:104:GLY:O	46:NF:147:MET:HB2	2.13	0.49
45:NG:181:VAL:HG13	45:NG:182:VAL:HG13	1.93	0.49
46:NH:73:MET:N	46:NH:73:MET:HE2	2.27	0.49
46:NJ:268:ILE:HG22	46:NJ:368:VAL:HG22	1.95	0.49
45:NK:297:GLU:HB3	45:NK:300:ASN:HB2	1.95	0.49
46:NL:350:LYS:HE2	46:NL:350:LYS:HA	1.95	0.49
45:NM:296:PHE:CE1	45:NM:377:MET:HE1	2.47	0.49
46:NN:186:THR:HG21	46:NN:412:GLU:OE2	2.13	0.49
45:OC:206:ASN:HB3	45:OC:210:TYR:CE1	2.48	0.49
46:OD:167:PHE:CZ	46:OD:233:MET:HG2	2.48	0.49
46:OF:377:MET:HG3	46:OF:380:ARG:NH2	2.28	0.49
45:OG:395:PHE:HZ	45:OG:418:PHE:HB3	1.78	0.49
45:PA:154:LEU:HD12	45:PA:194:LEU:HG	1.94	0.49
45:PE:251:ASP:N	45:PE:254:GLU:OE1	2.42	0.49
46:PF:239:CYS:SG	46:PF:247:ASN:HA	2.52	0.49
45:PG:21:TRP:CZ2	45:PG:65:ALA:HB2	2.48	0.49
45:PI:183:GLU:N	45:PI:184:PRO:HD2	2.27	0.49
46:PJ:66:MET:HA	46:PJ:91:VAL:HG23	1.94	0.49
46:PJ:238:CYS:SG	46:PJ:239:CYS:N	2.85	0.49
45:PK:306:ASP:OD2	45:PK:309:HIS:N	2.46	0.49
46:QD:73:MET:HE1	46:QD:91:VAL:O	2.12	0.49
45:QE:32:PRO:HG3	45:QE:83:TYR:HE1	1.78	0.49
45:QE:255:PHE:O	45:QE:259:LEU:HB2	2.13	0.49
46:QF:153:SER:HA	46:QF:195:ASN:HD22	1.78	0.49
46:QF:190:HIS:CE1	46:QF:414:ASN:HD22	2.30	0.49
46:QH:251:ARG:HH21	45:QI:407:TRP:HZ3	1.60	0.49
46:QJ:326:VAL:O	46:QJ:330:MET:HG2	2.13	0.49
45:QK:98:ASP:OD1	45:QK:99:ALA:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QM:258:ASN:HD21	46:QN:178:THR:HG23	1.77	0.49
45:RA:171:ILE:HG23	45:RA:204:LEU:O	2.13	0.49
45:RA:229:ARG:HH22	45:RA:367:ASP:CG	2.19	0.49
45:RA:231:ILE:O	45:RA:235:ILE:HG12	2.13	0.49
46:RD:2:ARG:HH22	46:RD:247:ASN:HD21	1.59	0.49
45:RE:223:THR:HG23	45:RE:225:THR:H	1.77	0.49
45:RE:413:MET:HG3	45:RE:417:GLU:HG3	1.95	0.49
46:RF:167:PHE:HE1	46:RF:200:MET:HE2	1.78	0.49
46:RH:109:GLY:HA2	46:RH:147:MET:HE2	1.94	0.49
45:RM:183:GLU:N	45:RM:184:PRO:HD2	2.28	0.49
46:SD:318:ARG:HH21	46:SD:358:PRO:HA	1.77	0.49
45:SE:183:GLU:N	45:SE:184:PRO:HD2	2.28	0.49
46:SJ:86:ARG:HD2	46:TJ:282:ARG:HH21	1.77	0.49
46:SJ:379:LYS:O	46:SJ:383:GLU:HG2	2.13	0.49
46:SL:21:TRP:CZ3	46:SL:61:PRO:HB2	2.48	0.49
46:SL:201:VAL:HG12	46:SL:266:PHE:O	2.12	0.49
46:SL:268:ILE:HG13	46:SL:300:MET:HE2	1.94	0.49
45:TA:271:SER:HB2	45:TA:377:MET:HG3	1.93	0.49
46:TD:334:GLN:HA	46:TD:341:PHE:CE1	2.48	0.49
45:TG:101:ASN:HA	45:TG:144:GLY:H	1.76	0.49
45:TI:252:ILE:HA	45:TI:255:PHE:CE2	2.47	0.49
46:TJ:116:VAL:O	46:TJ:120:VAL:HG23	2.13	0.49
45:TK:322:ASP:OD1	45:TK:373:ARG:NH1	2.46	0.49
45:TK:326:LYS:HG2	46:TL:208:TYR:CE1	2.48	0.49
46:UB:145:SER:HB2	46:UB:188:SER:HB3	1.95	0.49
46:UB:214:THR:HG23	46:UB:297:LYS:HZ2	1.78	0.49
45:UC:225:THR:O	45:UC:229:ARG:HG3	2.13	0.49
46:UD:325:GLU:HA	46:UD:328:GLU:HG2	1.95	0.49
45:UE:223:THR:HG23	45:UE:225:THR:H	1.77	0.49
45:UG:205:ASP:OD2	45:UG:303:ALA:HA	2.12	0.49
45:UI:172:TYR:HD2	45:UI:173:PRO:HD2	1.76	0.49
46:UN:133:PHE:HD1	46:UN:164:MET:HE1	1.77	0.49
45:VA:2:ARG:HH12	46:VD:70:PRO:HD2	1.77	0.49
45:VA:242:LEU:HD11	45:VA:252:ILE:HG12	1.94	0.49
45:VE:21:TRP:CZ2	45:VE:65:ALA:HB2	2.48	0.49
46:VF:12:CYS:O	46:VF:16:ILE:HG12	2.13	0.49
46:VJ:222:TYR:HD1	49:VJ:501:GDP:C6	2.31	0.49
46:VJ:406:MET:SD	46:VJ:407:GLU:N	2.86	0.49
45:VK:69:ASP:OD1	45:VK:70:LEU:N	2.42	0.49
45:WA:7:ILE:HB	45:WA:137:VAL:HG12	1.94	0.49
45:WA:174:SER:HB2	45:WA:177:VAL:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WA:331:SER:O	45:WA:335:ILE:HG12	2.13	0.49
46:WF:211:CYS:SG	46:WF:220:PRO:HB3	2.53	0.49
45:WI:387:VAL:O	45:WI:390:ARG:HG2	2.13	0.49
45:WK:67:PHE:HE1	45:WK:87:PHE:CE2	2.30	0.49
46:WL:201:VAL:HG22	46:WL:266:PHE:O	2.13	0.49
45:DC:210:TYR:CE1	45:DC:227:LEU:HD11	2.48	0.49
1:0A:35:TYR:OH	1:0A:44:THR:O	2.29	0.49
2:0B:171:MET:HE1	9:1N:434:LYS:HB3	1.94	0.49
7:0G:68:LYS:HD3	7:0G:69:GLU:N	2.28	0.49
9:0N:103:THR:OG1	9:0N:232:GLU:OE1	2.24	0.49
11:0S:162:PRO:HB3	11:0S:199:LYS:NZ	2.28	0.49
11:0S:197:LEU:CD1	11:0S:236:ARG:HH12	2.25	0.49
13:0U:434:ILE:HD12	13:0U:439:GLN:HG3	1.94	0.49
14:0V:70:THR:OG1	46:MN:337:ASN:ND2	2.41	0.49
16:1B:404:ILE:HD12	16:1B:488:PHE:HD2	1.77	0.49
16:1B:428:ILE:O	16:1B:432:TYR:HD2	1.96	0.49
3:1C:83:SER:HB2	46:EL:355:ASP:HB3	1.95	0.49
17:1F:48:GLN:HG2	17:1F:49:THR:N	2.28	0.49
17:1F:113:ASN:C	17:1F:113:ASN:ND2	2.71	0.49
8:1H:60:ARG:CZ	46:HN:33:THR:HG23	2.43	0.49
8:1H:414:MET:HG3	8:1H:415:PRO:O	2.13	0.49
18:1I:22:LEU:HD11	46:ID:45:GLU:OE2	2.12	0.49
19:1J:142:VAL:O	45:HE:57:GLY:HA3	2.13	0.49
21:1L:423:TYR:CE1	21:1L:455:LYS:HE3	2.48	0.49
21:1L:753:ARG:HB2	46:BD:362:LYS:NZ	2.27	0.49
22:1M:336:THR:HG23	22:1M:339:ALA:H	1.77	0.49
24:1P:175:LYS:O	24:1P:175:LYS:NZ	2.42	0.49
25:1R:291:GLY:HA3	46:DD:276:ARG:HB3	1.95	0.49
12:1T:225:SER:HB2	45:MC:264:ARG:HD3	1.95	0.49
13:1U:81:GLN:NE2	13:1U:100:LEU:HA	2.28	0.49
13:1U:475:ILE:HG23	13:1U:483:ARG:HH12	1.77	0.49
14:1V:4:GLU:OE1	13:2U:390:LEU:HB3	2.12	0.49
14:1V:69:SER:OG	46:MJ:336:LYS:HB3	2.13	0.49
14:1V:93:MET:HE2	14:1V:93:MET:HA	1.95	0.49
14:1V:231:LYS:HD3	14:1V:233:ASP:H	1.77	0.49
15:1X:130:ASP:HA	15:1X:133:LYS:CE	2.37	0.49
1:2A:67:PRO:HG3	46:MJ:53:GLU:HG3	1.95	0.49
1:2A:152:LYS:NZ	34:5R:78:ILE:O	2.38	0.49
21:2L:332:ASP:N	21:2L:332:ASP:OD1	2.46	0.49
21:2L:877:PHE:HE1	21:2L:896:ILE:HG21	1.78	0.49
13:2U:172:ILE:HD11	13:2U:185:LEU:HD23	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:2U:324:ASN:ND2	13:2U:365:CYS:O	2.46	0.49
13:2U:523:GLN:HG2	13:2U:526:ARG:HH21	1.77	0.49
14:2V:241:LYS:NZ	46:WH:218:THR:HG23	2.28	0.49
16:3B:17:GLN:NE2	16:3B:57:GLY:O	2.46	0.49
31:3I:285:ARG:HH22	45:FG:55:GLU:HG2	1.76	0.49
25:3R:448:VAL:HB	25:3R:464:LEU:HB2	1.95	0.49
11:3S:28:GLU:H	11:3S:31:LEU:HD11	1.77	0.49
34:4R:301:PRO:HD2	46:CF:74:ASP:OD1	2.12	0.49
36:5A:54:ARG:NH1	36:5A:55:ALA:O	2.46	0.49
36:5D:27:LYS:HZ2	36:5D:30:LYS:HG2	1.78	0.49
37:5F:129:ARG:NE	37:5F:130:PRO:HD2	2.28	0.49
40:6G:101:GLU:O	40:6G:105:LYS:HG2	2.12	0.49
34:7R:359:TRP:CZ3	34:7R:364:MET:HE1	2.48	0.49
44:8R:177:ALA:HA	44:8R:180:TYR:HD2	1.78	0.49
45:AA:203:MET:HE3	45:AA:205:ASP:HB3	1.95	0.49
45:AA:419:SER:O	45:AA:422:ARG:N	2.45	0.49
45:AE:55:GLU:OE2	45:AE:61:HIS:NE2	2.46	0.49
46:AJ:36:TYR:O	46:AJ:37:HIS:ND1	2.43	0.49
46:AL:1:MET:SD	46:AL:2:ARG:N	2.86	0.49
45:BA:88:HIS:ND1	45:BA:90:GLU:OE1	2.44	0.49
45:BA:280:LYS:HE3	45:BA:284:GLU:OE1	2.13	0.49
45:BA:420:GLU:O	45:BA:423:GLU:HG3	2.12	0.49
46:BD:28:HIS:C	46:BD:43:GLN:HE21	2.21	0.49
46:BD:173:PRO:HD2	46:BD:174:LYS:HZ3	1.76	0.49
45:BI:152:LEU:O	45:BI:155:GLU:HG3	2.13	0.49
45:BI:255:PHE:HZ	45:BI:318:MET:HE1	1.78	0.49
46:BJ:233:MET:O	46:BJ:236:VAL:HG12	2.12	0.49
45:CA:136:LEU:HD21	45:CA:138:PHE:CE1	2.48	0.49
45:CC:211:ASP:HB3	45:CC:215:ARG:NH2	2.28	0.49
45:CI:328:VAL:O	45:CI:332:ILE:HG12	2.13	0.49
46:CN:21:TRP:CZ3	46:CN:61:PRO:HB3	2.47	0.49
46:CN:100:ASN:HD22	46:CN:103:LYS:HB2	1.77	0.49
45:DA:324:VAL:HG12	45:DA:326:LYS:H	1.77	0.49
46:DD:207:LEU:HB3	46:DD:225:LEU:HD22	1.94	0.49
46:DF:394:PHE:HD1	46:DF:397:TRP:HZ3	1.60	0.49
45:DI:326:LYS:HG3	45:DI:327:ASP:N	2.27	0.49
46:DJ:10:GLY:O	46:DJ:14:ASN:ND2	2.46	0.49
46:DJ:258:ILE:HD11	45:DK:407:TRP:HZ2	1.77	0.49
46:DJ:325:GLU:H	45:DK:221:ARG:NH1	2.00	0.49
46:DL:100:ASN:HB3	46:DL:103:LYS:HB3	1.94	0.49
45:EC:135:PHE:HB2	45:EC:166:LYS:HG2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EE:82:THR:HG23	45:EE:83:TYR:CD1	2.48	0.49
45:EE:109:THR:HG22	45:EE:110:ILE:HG23	1.95	0.49
46:EF:360:GLY:O	46:EF:361:LEU:HD22	2.13	0.49
46:EJ:319:GLY:HA3	46:EJ:362:LYS:O	2.13	0.49
45:EM:174:SER:HB2	45:EM:177:VAL:O	2.13	0.49
45:FA:64:ARG:NH1	45:FA:129:CYS:SG	2.86	0.49
45:FA:174:SER:HB2	45:FA:177:VAL:HB	1.93	0.49
46:FB:87:PRO:HA	46:FB:90:PHE:HD2	1.77	0.49
46:FB:286:VAL:HG11	46:FB:326:VAL:HG22	1.95	0.49
46:FB:318:ARG:HB3	46:FB:357:PRO:HA	1.95	0.49
45:FG:414:GLU:CD	45:FG:416:GLY:H	2.20	0.49
45:FK:277:SER:OG	45:FK:280:LYS:NZ	2.45	0.49
46:FN:133:PHE:CD1	46:FN:164:MET:HE1	2.45	0.49
46:FN:222:TYR:O	46:FN:226:ASN:ND2	2.35	0.49
45:GA:135:PHE:HB2	45:GA:166:LYS:HG2	1.95	0.49
46:GB:210:ILE:O	46:GB:214:THR:OG1	2.30	0.49
46:GB:262:ARG:NH1	46:GB:421:GLU:OE1	2.46	0.49
45:GC:326:LYS:HD2	46:GF:220:PRO:HD2	1.94	0.49
46:GD:390:ARG:O	46:GD:392:LYS:NZ	2.46	0.49
46:GH:41:ASP:OD1	46:GH:41:ASP:N	2.45	0.49
45:GI:194:LEU:O	45:GI:198:THR:HG22	2.13	0.49
46:GJ:293:MET:SD	46:GJ:365:VAL:HG11	2.53	0.49
46:GL:330:MET:N	46:GL:330:MET:HE2	2.27	0.49
45:HA:394:LYS:O	45:HA:398:MET:HE3	2.13	0.49
46:HB:372:THR:HA	46:HB:422:TYR:HE2	1.78	0.49
45:HG:107:HIS:ND1	45:HG:107:HIS:O	2.46	0.49
46:HH:167:PHE:CE2	46:HH:233:MET:HG3	2.48	0.49
45:HI:296:PHE:CE2	45:HI:335:ILE:HG21	2.48	0.49
45:HK:237:SER:HA	45:HK:320:ARG:HH11	1.77	0.49
46:HL:334:GLN:HE22	46:HL:347:ASN:H	1.61	0.49
45:IA:317:MET:O	45:IA:318:MET:HE2	2.13	0.49
45:IA:352:LYS:HZ1	46:ID:179:VAL:N	2.10	0.49
46:IB:196:ALA:HB3	46:IB:264:HIS:CE1	2.48	0.49
45:IC:187:SER:O	45:IC:191:THR:HG23	2.13	0.49
45:IK:259:LEU:O	45:IK:380:ASN:ND2	2.45	0.49
45:IM:204:LEU:HD22	45:IM:231:ILE:HD12	1.95	0.49
46:JB:221:THR:HG23	46:JB:223:GLY:H	1.76	0.49
46:JD:204:ASN:O	46:JD:208:TYR:HD2	1.95	0.49
46:JF:415:MET:O	46:JF:419:VAL:HG23	2.13	0.49
45:JG:377:MET:SD	45:JG:379:SER:HB3	2.52	0.49
46:JH:64:ILE:HA	46:JH:89:ASN:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JH:107:THR:OG1	46:JH:108:GLU:OE1	2.31	0.49
45:JK:319:TYR:CE2	45:JK:328:VAL:HG22	2.48	0.49
46:JL:66:MET:HE2	46:JL:147:MET:SD	2.53	0.49
46:JN:285:THR:HB	46:JN:287:PRO:HD2	1.94	0.49
46:KB:86:ARG:NH1	46:KB:87:PRO:HD2	2.28	0.49
46:KD:267:MET:HG3	46:KD:299:MET:HE2	1.94	0.49
46:KJ:156:ARG:HB2	46:KJ:164:MET:HE1	1.94	0.49
46:LB:253:LEU:O	46:LB:257:LEU:HB2	2.13	0.49
45:LC:140:SER:OG	47:LC:501:GTP:O2B	2.30	0.49
45:LI:221:ARG:HG3	45:LI:221:ARG:HH11	1.78	0.49
45:MC:200:VAL:HG13	45:MC:268:MET:HE2	1.95	0.49
45:MC:414:GLU:HB3	45:MC:417:GLU:HG2	1.94	0.49
46:MD:7:ILE:HD13	46:MD:64:ILE:HB	1.95	0.49
46:MD:213:ARG:NH2	46:MD:297:LYS:HG3	2.28	0.49
46:MD:289:LEU:HD13	46:MD:365:VAL:HG23	1.93	0.49
45:ME:171:ILE:HG13	45:ME:204:LEU:O	2.13	0.49
46:MJ:139:LEU:HD22	46:MJ:170:VAL:HG12	1.94	0.49
46:NB:20:PHE:HA	46:NB:230:SER:HB2	1.95	0.49
45:NE:213:CYS:HB2	45:NE:217:LEU:HD12	1.95	0.49
45:NE:372:MET:N	45:NE:372:MET:SD	2.86	0.49
46:NF:167:PHE:CZ	46:NF:233:MET:HG2	2.48	0.49
45:NI:223:THR:HG22	45:NI:224:TYR:N	2.25	0.49
46:OD:324:LYS:HD3	46:OD:327:ASP:HB2	1.94	0.49
46:OH:156:ARG:NH2	46:OH:197:ASP:OD1	2.46	0.49
45:OI:96:LYS:HD2	45:OI:96:LYS:N	2.27	0.49
45:OK:332:ILE:HD12	45:OK:351:PHE:CD2	2.48	0.49
45:PA:99:ALA:O	46:PB:251:ARG:NH2	2.46	0.49
45:PC:183:GLU:N	45:PC:184:PRO:HD2	2.27	0.49
46:PD:201:VAL:HG13	46:PD:301:CYS:SG	2.52	0.49
45:PG:100:ALA:HA	46:PH:252:LYS:HG2	1.95	0.49
45:PG:175:PRO:HG3	45:PG:390:ARG:NH1	2.28	0.49
45:PG:313:MET:HE1	45:PG:346:TRP:HH2	1.77	0.49
45:PK:101:ASN:HD22	46:PL:256:ASN:HD21	1.61	0.49
46:PL:375:GLN:C	46:PL:379:LYS:HZ1	2.21	0.49
45:PM:190:SER:O	45:PM:194:LEU:HD23	2.12	0.49
46:PN:58:ARG:HH21	46:PN:83:GLN:HE22	1.61	0.49
46:QB:183:TYR:OH	46:QB:388:MET:HG3	2.13	0.49
45:QC:88:HIS:CE1	45:QC:90:GLU:HB3	2.48	0.49
45:QE:262:TYR:HD2	45:QE:265:ILE:HD12	1.76	0.49
46:QF:344:TRP:CD2	45:QG:401:LYS:HE3	2.48	0.49
45:QG:315:CYS:SG	45:QG:379:SER:OG	2.66	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QI:296:PHE:CD2	45:QI:335:ILE:HG12	2.48	0.49
45:QK:21:TRP:CZ2	45:QK:65:ALA:HB2	2.47	0.49
46:QL:102:ALA:H	46:QL:398:TYR:HE2	1.61	0.49
46:RB:262:ARG:CZ	46:RB:418:LEU:HD12	2.42	0.49
45:RC:8:HIS:CD2	45:RC:17:GLY:HA3	2.48	0.49
45:RC:25:CYS:HA	45:RC:30:ILE:HD13	1.95	0.49
45:RE:239:THR:HG23	45:RE:243:ARG:HH21	1.78	0.49
45:RG:288:VAL:HA	45:RG:291:ILE:HG12	1.94	0.49
45:RG:317:MET:HE1	45:RG:351:PHE:CD1	2.47	0.49
46:RH:52:ASN:OD1	46:RH:62:ARG:NH2	2.46	0.49
46:RH:254:ALA:O	46:RH:258:ILE:HG12	2.12	0.49
46:RJ:269:GLY:HA2	46:RJ:300:MET:HE1	1.95	0.49
45:RK:171:ILE:HG22	45:RK:204:LEU:HB2	1.94	0.49
46:RL:136:THR:HA	46:RL:167:PHE:HB2	1.95	0.49
46:RL:322:SER:HB2	45:RM:222:PRO:O	2.13	0.49
46:SD:45:GLU:HG3	46:SD:46:ARG:HG2	1.93	0.49
45:SE:66:VAL:HG11	45:SE:122:ILE:HD11	1.94	0.49
46:SH:254:ALA:O	46:SH:258:ILE:HG12	2.13	0.49
45:SI:90:GLU:HG3	45:SI:121:ARG:NH2	2.27	0.49
45:SI:135:PHE:HE2	45:SI:164:LYS:HG2	1.78	0.49
46:SJ:201:VAL:HG13	46:SJ:301:CYS:SG	2.52	0.49
45:SK:319:TYR:CE1	45:SK:328:VAL:HG22	2.47	0.49
45:TA:212:ILE:HD11	45:TA:300:ASN:HA	1.94	0.49
45:TC:226:ASN:O	45:TC:229:ARG:HG2	2.13	0.49
46:TH:86:ARG:HG3	46:TH:88:ASP:OD1	2.13	0.49
45:TI:286:LEU:O	45:TI:373:ARG:NH1	2.46	0.49
45:TK:399:TYR:O	45:TK:402:ARG:NH1	2.46	0.49
46:TL:318:ARG:HB3	46:TL:357:PRO:HA	1.95	0.49
45:TM:118:CYS:O	45:TM:122:ILE:HG12	2.13	0.49
46:TN:16:ILE:HD12	46:TN:229:VAL:HG11	1.95	0.49
46:UB:274:THR:HB	46:UB:282:ARG:HH11	1.78	0.49
45:UE:108:TYR:CD2	45:UE:413:MET:HE1	2.48	0.49
46:UF:3:GLU:CD	46:UF:3:GLU:H	2.21	0.49
46:UH:310:TYR:CD1	46:UH:371:SER:HB2	2.48	0.49
46:UJ:3:GLU:HA	46:UJ:49:VAL:HG23	1.94	0.49
46:UJ:200:MET:HE1	46:UJ:268:ILE:HG23	1.94	0.49
46:UL:41:ASP:OD1	46:UL:42:LEU:N	2.46	0.49
46:UL:275:SER:O	46:UL:279:GLN:NE2	2.46	0.49
45:UM:344:VAL:HG21	45:UM:346:TRP:CZ2	2.48	0.49
46:VB:31:ASP:OD2	46:VB:37:HIS:ND1	2.46	0.49
46:VB:211:CYS:HA	46:VB:215:LEU:HD12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VB:293:MET:HE3	46:VB:294:PHE:CZ	2.48	0.49
45:VC:88:HIS:CD2	45:WC:280:LYS:HE2	2.47	0.49
45:VC:118:CYS:O	45:VC:122:ILE:HG12	2.12	0.49
46:VD:105:HIS:CE1	46:VD:150:LEU:HD12	2.46	0.49
46:VF:332:ASN:O	46:VF:336:LYS:HG2	2.13	0.49
45:VI:206:ASN:HB3	45:VI:210:TYR:CE2	2.45	0.49
45:VK:3:GLU:HG2	45:VK:64:ARG:NH2	2.28	0.49
46:WD:201:VAL:HG22	46:WD:266:PHE:O	2.13	0.49
45:WE:184:PRO:O	45:WE:188:ILE:HG12	2.12	0.49
46:WF:318:ARG:HB3	46:WF:357:PRO:HA	1.95	0.49
45:WG:208:ALA:HA	45:WG:304:LYS:HZ2	1.77	0.49
46:WH:12:CYS:O	46:WH:16:ILE:HG12	2.12	0.49
46:WH:189:VAL:HA	46:WH:192:LEU:HB2	1.93	0.49
46:WH:237:THR:HG23	46:WH:241:ARG:HE	1.78	0.49
45:WM:175:PRO:O	45:WM:390:ARG:NH1	2.44	0.49
45:CE:118:CYS:O	45:CE:122:ILE:HG12	2.13	0.49
1:0A:35:TYR:H	46:MB:320:ARG:HH21	1.61	0.49
2:0B:288:ILE:HG22	46:KL:279:GLN:HB3	1.95	0.49
5:0E:129:HIS:ND1	5:0E:131:LYS:HB2	2.28	0.49
9:0N:157:ILE:HD11	9:0N:169:GLN:HB2	1.95	0.49
13:0U:195:GLN:NE2	13:0U:196:TYR:O	2.46	0.49
15:0X:94:SER:HA	15:0X:97:GLN:HE22	1.77	0.49
5:1E:118:ARG:HH22	34:4R:537:LYS:NZ	2.11	0.49
18:1I:141:PHE:CD2	46:KF:40:SER:HB3	2.48	0.49
18:1I:189:PHE:HE2	46:KH:70:PRO:HG2	1.78	0.49
18:1I:189:PHE:CE2	46:KH:70:PRO:HG2	2.48	0.49
19:1J:80:LYS:NZ	45:IC:373:ARG:HB2	2.27	0.49
19:1J:376:PHE:O	19:1J:379:ILE:HG22	2.13	0.49
21:1L:887:LYS:HB3	21:1L:923:PHE:O	2.12	0.49
22:1M:87:ASN:OD1	22:1M:88:ILE:N	2.46	0.49
24:1P:308:LYS:O	24:1P:312:THR:HG23	2.12	0.49
24:1P:365:GLU:O	24:1P:368:LYS:HG2	2.13	0.49
11:1S:146:LYS:HA	45:WC:123:ARG:HH22	1.77	0.49
13:1U:374:GLY:HA3	14:2V:5:SER:HB2	1.94	0.49
16:2B:45:GLU:HG3	16:2B:48:GLU:HG2	1.94	0.49
27:2C:106:PHE:CE1	27:2C:191:LEU:HB3	2.48	0.49
27:2C:126:SER:C	27:2C:130:ARG:HH21	2.20	0.49
4:2D:39:PRO:HA	4:2D:58:TYR:CD2	2.48	0.49
21:2L:272:ILE:HA	21:2L:275:ILE:HG22	1.94	0.49
21:2L:556:LEU:HD12	21:2L:556:LEU:O	2.13	0.49
22:2M:128:GLN:HB3	22:2M:132:ARG:HH12	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:2O:426:GLU:O	23:2O:430:GLN:HG3	2.12	0.49
24:2P:383:GLU:HA	24:2P:386:GLN:NE2	2.28	0.49
25:2R:259:LEU:HD13	25:2R:349:THR:HG22	1.95	0.49
12:2T:92:ASP:O	12:2T:96:GLN:HG2	2.13	0.49
13:2U:131:VAL:HG11	13:2U:141:TYR:CE1	2.48	0.49
13:2U:431:VAL:HG12	13:2U:443:ALA:HA	1.94	0.49
13:2U:560:TRP:CZ3	13:2U:567:LYS:HB3	2.48	0.49
26:2W:220:LEU:O	26:2W:223:LEU:N	2.46	0.49
16:3B:62:THR:HA	45:LG:84:ARG:NH2	2.27	0.49
27:3C:114:ILE:HD11	27:3C:195:TRP:CZ3	2.48	0.49
5:3E:186:LYS:HA	5:3E:191:VAL:HG22	1.95	0.49
30:3H:171:LEU:HD12	30:3H:172:SER:H	1.77	0.49
30:3H:181:VAL:O	30:3H:184:LYS:HE2	2.13	0.49
23:3O:367:GLN:O	23:3O:370:LEU:N	2.46	0.49
12:3T:55:LYS:HZ1	12:3T:146:MET:HE3	1.78	0.49
27:4C:205:ILE:HD12	27:4C:269:TYR:CE1	2.48	0.49
33:4F:160:THR:OG1	33:4F:163:LYS:HG2	2.12	0.49
33:4F:197:THR:HG21	33:4F:204:PRO:HA	1.95	0.49
34:4R:432:SER:OG	34:4R:433:GLN:N	2.33	0.49
36:5C:131:ARG:O	36:5C:132:SER:OG	2.26	0.49
37:5E:164:LYS:HG3	37:5E:165:PRO:HD3	1.95	0.49
37:5G:9:TYR:CG	37:5G:10:PRO:HD3	2.48	0.49
37:5G:44:ARG:HG2	37:5G:45:PRO:O	2.12	0.49
37:5G:108:LYS:HA	37:5G:108:LYS:HE2	1.93	0.49
34:5R:33:LEU:H	45:LG:1:MET:HE1	1.78	0.49
10:6Q:1:MET:HE3	10:6Q:24:ILE:HG12	1.93	0.49
34:6R:343:TYR:O	46:CN:32:PRO:HG2	2.13	0.49
45:AC:88:HIS:O	45:AC:91:GLN:HG2	2.13	0.49
45:AC:195:LEU:HD21	45:AC:264:ARG:HD2	1.95	0.49
45:AM:319:TYR:CD2	45:AM:375:VAL:HG22	2.48	0.49
46:AN:372:THR:HA	46:AN:422:TYR:CE1	2.47	0.49
45:BE:3:GLU:OE2	45:BE:131:GLY:N	2.46	0.49
45:BE:183:GLU:N	45:BE:184:PRO:HD2	2.28	0.49
46:BF:293:MET:HG3	46:BF:367:PHE:HB2	1.95	0.49
46:BH:28:HIS:C	46:BH:43:GLN:HE21	2.21	0.49
45:BI:255:PHE:CZ	45:BI:318:MET:HE1	2.48	0.49
45:BM:214:ARG:NE	45:BM:220:GLU:OE2	2.46	0.49
46:CF:278:SER:HA	46:CF:281:TYR:CD2	2.48	0.49
45:CK:21:TRP:CZ3	45:CK:63:PRO:HB3	2.48	0.49
45:CK:175:PRO:HB3	45:CK:390:ARG:CZ	2.43	0.49
45:CM:152:LEU:O	45:CM:156:ARG:HG2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DB:2:ARG:HH21	46:DB:240:LEU:HG	1.78	0.49
46:DB:313:ALA:HB1	46:DB:367:PHE:HE1	1.77	0.49
45:DI:55:GLU:CD	45:DI:57:GLY:H	2.21	0.49
45:DI:201:ALA:O	45:DI:268:MET:HB2	2.13	0.49
45:DM:322:ASP:OD1	45:DM:373:ARG:NH1	2.41	0.49
46:DN:289:LEU:HD13	46:DN:365:VAL:HG23	1.95	0.49
45:EA:313:MET:HE3	45:EA:382:THR:HG22	1.94	0.49
45:EC:294:SER:HA	45:EC:297:GLU:OE1	2.13	0.49
46:EF:175:VAL:HG22	46:EF:205:GLU:CD	2.37	0.49
46:EH:289:LEU:HD13	46:EH:365:VAL:HG23	1.95	0.49
46:EH:325:GLU:OE2	45:EI:221:ARG:HG2	2.12	0.49
45:EM:69:ASP:O	45:EM:94:SER:HA	2.12	0.49
45:FE:72:PRO:HG2	46:FF:1:MET:HE1	1.95	0.49
46:FF:316:LEU:HG	46:FF:352:SER:HB3	1.95	0.49
46:FH:123:GLU:OE2	46:FH:123:GLU:HA	2.13	0.49
45:FI:88:HIS:CE1	45:FI:90:GLU:HG2	2.48	0.49
45:FK:248:LEU:HD12	45:FK:355:ILE:HD12	1.95	0.49
46:FL:287:PRO:HG3	46:FL:329:GLN:NE2	2.27	0.49
46:FN:52:ASN:OD1	46:FN:62:ARG:NH2	2.46	0.49
46:GD:108:GLU:O	46:GD:111:GLU:HG3	2.13	0.49
45:GE:177:VAL:HG13	46:GF:327:ASP:OD2	2.13	0.49
46:GF:3:GLU:CD	46:GF:3:GLU:H	2.21	0.49
46:GF:267:MET:HB2	46:GF:299:MET:SD	2.53	0.49
45:GG:172:TYR:HE1	45:GG:203:MET:HE1	1.77	0.49
46:GL:72:THR:O	46:GL:75:SER:OG	2.25	0.49
45:GM:183:GLU:N	45:GM:184:PRO:HD2	2.28	0.49
45:HA:325:PRO:O	45:HA:329:ASN:ND2	2.46	0.49
45:HE:183:GLU:N	45:HE:184:PRO:HD2	2.28	0.49
45:HG:268:MET:HG3	45:HG:380:ASN:HB2	1.95	0.49
45:HK:387:VAL:HA	45:HK:390:ARG:HG2	1.94	0.49
45:IA:14:ILE:HD11	45:IA:69:ASP:HB2	1.95	0.49
45:IG:17:GLY:HA2	45:IG:20:CYS:SG	2.53	0.49
46:IJ:247:ASN:ND2	46:IJ:247:ASN:N	2.61	0.49
46:IJ:293:MET:HE3	46:IJ:294:PHE:CE1	2.48	0.49
45:JC:196:GLU:N	45:JC:196:GLU:OE1	2.46	0.49
46:JD:203:ASP:OD2	46:JD:302:ALA:N	2.28	0.49
45:JE:349:THR:HG23	46:JH:179:VAL:HA	1.93	0.49
45:JM:340:THR:HG23	45:JM:341:ILE:HD12	1.94	0.49
46:JN:50:TYR:HE2	46:JN:241:ARG:HD3	1.78	0.49
45:KA:88:HIS:CD2	45:KA:90:GLU:HG2	2.48	0.49
45:KE:2:ARG:HD3	45:KE:2:ARG:H	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KG:72:PRO:HD2	46:KH:2:ARG:HH12	1.78	0.49
45:KK:315:CYS:HB3	45:KK:377:MET:HE1	1.94	0.49
46:KL:156:ARG:NH2	46:KL:160:PRO:O	2.46	0.49
46:LD:6:HIS:O	46:LD:63:ALA:HA	2.11	0.49
46:LF:186:THR:HG23	46:LF:187:LEU:HD12	1.94	0.49
45:LG:183:GLU:N	45:LG:184:PRO:HD2	2.28	0.49
45:LI:133:GLN:HG3	45:LI:242:LEU:HD11	1.94	0.49
45:LK:52:PHE:HZ	45:LK:239:THR:HG21	1.78	0.49
45:LK:399:TYR:OH	45:LK:415:GLU:OE2	2.29	0.49
45:MA:109:THR:HG22	45:MA:110:ILE:HG23	1.95	0.49
45:MI:224:TYR:HE2	46:MJ:246:LEU:HD11	1.78	0.49
46:MJ:248:SER:HA	46:MJ:252:LYS:HD3	1.93	0.49
45:NE:288:VAL:HA	45:NE:291:ILE:HG12	1.94	0.49
46:NH:372:THR:HA	46:NH:422:TYR:CE2	2.48	0.49
45:NK:9:VAL:HG22	45:NK:146:GLY:HA2	1.94	0.49
45:NK:121:ARG:NE	45:NK:121:ARG:HA	2.27	0.49
46:NL:316:LEU:HD13	46:NL:352:SER:HB2	1.95	0.49
46:NN:14:ASN:HD22	46:NN:65:LEU:HD23	1.77	0.49
45:OE:88:HIS:ND1	45:OE:90:GLU:HG3	2.27	0.49
45:OE:430:LYS:NZ	45:OE:433:GLU:OE2	2.31	0.49
45:OG:287:SER:H	45:OG:290:GLU:CD	2.20	0.49
45:OG:345:ASP:OD2	45:OG:346:TRP:N	2.46	0.49
46:OH:275:SER:O	46:OH:279:GLN:HG2	2.12	0.49
45:OK:328:VAL:O	45:OK:332:ILE:HG12	2.12	0.49
46:ON:20:PHE:HZ	46:ON:50:TYR:HE1	1.61	0.49
45:PA:70:LEU:HD11	45:PA:99:ALA:H	1.78	0.49
45:PA:210:TYR:HB3	46:PB:324:LYS:HD2	1.95	0.49
45:PE:371:VAL:C	45:PE:372:MET:HE2	2.37	0.49
46:PF:73:MET:HA	46:PF:76:VAL:HG12	1.95	0.49
45:PG:320:ARG:NH2	45:PG:359:PRO:O	2.45	0.49
46:PH:170:VAL:HG11	46:PH:377:MET:HE1	1.93	0.49
45:PI:254:GLU:HB3	46:PL:98:GLY:HA2	1.95	0.49
45:QA:223:THR:HG23	45:QA:225:THR:HG22	1.94	0.49
45:QA:256:GLN:HB2	45:QA:260:VAL:HB	1.95	0.49
45:QA:329:ASN:HA	45:QA:332:ILE:HG12	1.94	0.49
46:QB:12:CYS:O	46:QB:16:ILE:HG12	2.13	0.49
46:QB:296:ALA:O	46:QB:299:MET:HG2	2.13	0.49
45:QE:69:ASP:HB3	45:QE:75:ILE:HD11	1.95	0.49
46:QF:130:LEU:HD23	46:QF:162:ARG:HG3	1.94	0.49
46:RD:344:TRP:CG	45:RE:401:LYS:HZ2	2.30	0.49
45:RI:434:GLU:O	45:RI:437:ILE:HG22	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RK:20:CYS:HG	45:RK:21:TRP:HD1	1.59	0.49
46:RL:221:THR:HG23	46:RL:224:ASP:H	1.78	0.49
45:SC:28:HIS:CE1	45:SC:49:PHE:HA	2.48	0.49
45:SC:153:LEU:O	45:SC:157:LEU:HD23	2.13	0.49
45:SC:260:VAL:HB	46:SD:397:TRP:CZ2	2.41	0.49
46:SD:1:MET:HE2	45:SE:72:PRO:HG2	1.94	0.49
46:SD:268:ILE:HG13	46:SD:300:MET:HE2	1.95	0.49
46:SF:8:GLN:HE21	46:SF:65:LEU:HG	1.77	0.49
46:SF:138:SER:HA	46:SF:169:VAL:HB	1.95	0.49
46:SJ:317:PHE:CD1	46:SJ:365:VAL:HG22	2.48	0.49
45:SK:76:ASP:HA	45:SK:79:ARG:HG2	1.95	0.49
45:SK:280:LYS:HA	45:SK:283:HIS:ND1	2.27	0.49
46:SL:54:ALA:HA	46:TL:283:ALA:HB2	1.95	0.49
46:TF:299:MET:HE3	46:TF:299:MET:HA	1.95	0.49
45:TM:184:PRO:O	45:TM:188:ILE:HG12	2.13	0.49
46:UB:45:GLU:HG2	46:UB:46:ARG:HG2	1.95	0.49
45:UC:2:ARG:HA	45:UC:133:GLN:HE22	1.77	0.49
46:UD:161:ASP:OD1	46:UD:162:ARG:HG2	2.13	0.49
45:UG:22:GLU:HG3	45:UG:83:TYR:CE2	2.48	0.49
45:UG:347:CYS:HA	46:UH:388:MET:HE1	1.95	0.49
46:UH:101:TRP:CE3	46:UH:403:MET:HE1	2.48	0.49
46:UJ:58:ARG:HH22	46:UJ:84:LEU:HA	1.78	0.49
46:UJ:70:PRO:HA	46:UJ:73:MET:SD	2.52	0.49
46:UJ:316:LEU:HD13	46:UJ:352:SER:HB2	1.95	0.49
46:UL:9:GLY:HA3	46:UL:66:MET:SD	2.52	0.49
45:VA:141:VAL:HG11	45:VA:172:TYR:CD1	2.47	0.49
45:VA:338:LYS:HZ3	45:VA:341:ILE:HG13	1.77	0.49
45:VC:183:GLU:N	45:VC:184:PRO:HD2	2.28	0.49
46:VF:215:LEU:HD21	46:VF:273:LEU:HD12	1.95	0.49
46:VH:189:VAL:HG13	46:VH:415:MET:HE3	1.94	0.49
45:VI:75:ILE:HG23	45:VI:92:LEU:HD23	1.95	0.49
46:VJ:173:PRO:HD3	46:VJ:380:ARG:CZ	2.43	0.49
46:VL:237:THR:HG23	46:VL:241:ARG:HE	1.78	0.49
46:VN:108:GLU:OE2	46:VN:112:LEU:HB2	2.13	0.49
46:VN:175:VAL:HG22	46:VN:205:GLU:HB3	1.95	0.49
46:WD:11:GLN:NE2	49:WD:501:GDP:O3B	2.40	0.49
46:WD:167:PHE:CZ	46:WD:200:MET:HG3	2.48	0.49
45:WG:36:MET:HE1	45:WG:40:LYS:HE3	1.95	0.49
46:WN:100:ASN:HD22	46:WN:103:LYS:HB2	1.77	0.49
45:CE:319:TYR:HE2	45:CE:328:VAL:HG22	1.78	0.49
8:0H:398:GLU:HA	8:0H:401:ARG:HD3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:0S:87:ALA:HB1	13:0U:292:HIS:CE1	2.48	0.48
13:0U:89:PHE:C	13:0U:91:THR:H	2.21	0.48
13:0U:471:GLY:HA2	13:0U:493:PHE:HD2	1.78	0.48
13:0U:543:LYS:HG3	13:0U:587:GLN:NE2	2.28	0.48
13:0U:563:ASP:OD2	13:0U:564:GLU:N	2.46	0.48
15:0X:81:ARG:HB3	46:MB:276:ARG:HH12	1.78	0.48
16:1B:206:ARG:HG3	16:1B:206:ARG:HH11	1.76	0.48
16:1B:439:ILE:HD12	16:1B:490:GLN:HG3	1.94	0.48
7:1G:172:TYR:CE2	45:KA:1:MET:HA	2.48	0.48
8:1H:101:GLN:HA	8:1H:104:LYS:HG2	1.95	0.48
19:1J:302:PHE:CE1	45:IK:280:LYS:HE2	2.47	0.48
20:1K:110:GLN:O	20:1K:113:ILE:HG12	2.13	0.48
21:1L:294:ASP:OD2	21:1L:299:GLY:N	2.44	0.48
21:1L:513:LEU:HD23	21:1L:517:ARG:HD2	1.95	0.48
22:1M:292:ASN:OD1	22:1M:293:ALA:N	2.42	0.48
9:1N:124:ASP:OD1	9:1N:125:GLN:N	2.43	0.48
23:1O:195:GLN:O	23:1O:198:LYS:HG2	2.13	0.48
24:1P:115:ASP:O	24:1P:118:GLU:HG3	2.13	0.48
10:1Q:69:LEU:O	10:1Q:69:LEU:HD23	2.13	0.48
25:1R:36:TYR:O	25:1R:40:ASN:ND2	2.42	0.48
11:1S:85:GLN:HA	12:1T:35:LEU:HA	1.95	0.48
11:1S:87:ALA:H	13:1U:309:LYS:NZ	2.11	0.48
13:1U:194:ARG:HD2	13:1U:212:THR:HG21	1.93	0.48
16:2B:84:GLU:OE2	16:2B:84:GLU:N	2.45	0.48
28:2F:79:CYS:HA	46:HF:332:ASN:ND2	2.27	0.48
29:2G:3:ASN:OD1	29:2G:4:ILE:HD12	2.13	0.48
21:2L:538:ARG:NH2	46:AN:53:GLU:OE1	2.41	0.48
9:2N:79:ASP:OD1	9:2N:80:PHE:N	2.46	0.48
23:2O:371:GLU:O	23:2O:375:GLN:HG2	2.13	0.48
10:2Q:76:LEU:HD23	10:2Q:77:VAL:N	2.28	0.48
11:2S:223:ASP:O	11:2S:227:ILE:HG12	2.13	0.48
11:2S:271:ASP:O	10:4Q:36:ARG:NH2	2.46	0.48
13:2U:512:ARG:NH1	13:2U:532:GLU:O	2.45	0.48
16:3B:27:GLU:OE2	16:3B:31:ARG:NH1	2.45	0.48
32:3D:47:TRP:H	32:3D:47:TRP:CD1	2.29	0.48
21:3L:67:ARG:HG3	21:3L:68:SER:N	2.27	0.48
10:3Q:76:LEU:HB3	10:3Q:134:PHE:HB3	1.94	0.48
12:3T:77:ASP:HB3	12:3T:103:VAL:HG22	1.94	0.48
12:3T:281:THR:HB	12:3T:283:TYR:CZ	2.49	0.48
13:3U:512:ARG:HB3	13:3U:530:GLY:CA	2.43	0.48
15:3X:38:ILE:HG22	15:3X:42:LYS:HE2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:4C:100:ASN:OD1	27:4C:101:GLN:N	2.46	0.48
35:4S:158:MET:HE1	35:4S:193:PHE:CD2	2.48	0.48
36:5C:103:HIS:ND1	36:5C:104:PRO:HD2	2.28	0.48
36:5D:87:ARG:HH22	45:NM:363:VAL:HG22	1.78	0.48
37:5G:28:SER:OG	37:5G:29:LYS:N	2.46	0.48
34:5R:87:LYS:HE3	34:5R:88:TYR:CZ	2.48	0.48
44:8R:113:TYR:OH	45:PI:372:MET:HG3	2.13	0.48
45:AA:221:ARG:CZ	46:AB:322:SER:HB3	2.43	0.48
46:AB:342:VAL:HG13	46:AB:345:ILE:HG22	1.95	0.48
46:AH:68:LEU:HB2	46:AH:147:MET:HE1	1.94	0.48
45:AI:256:GLN:HB3	46:AL:397:TRP:CZ3	2.48	0.48
46:AL:3:GLU:CD	46:AL:3:GLU:H	2.21	0.48
46:AL:113:ILE:HD13	46:AL:154:LYS:HZ2	1.77	0.48
45:BA:315:CYS:SG	45:BA:377:MET:HE3	2.52	0.48
46:BB:267:MET:HE1	46:BB:299:MET:HG3	1.95	0.48
46:BD:324:LYS:HG3	46:BD:325:GLU:N	2.28	0.48
46:BD:334:GLN:NE2	46:BD:348:ASN:OD1	2.46	0.48
45:BE:5:ILE:HD12	45:BE:135:PHE:HE1	1.78	0.48
45:BI:56:THR:HG23	45:BI:58:ALA:H	1.78	0.48
46:BJ:237:THR:HG23	46:BJ:241:ARG:HH21	1.76	0.48
45:BK:97:GLU:CD	45:BK:105:ARG:HH12	2.19	0.48
46:CB:217:LEU:HA	46:CB:276:ARG:HH22	1.78	0.48
45:CC:56:THR:HG23	45:CC:58:ALA:H	1.77	0.48
45:CC:175:PRO:HA	45:CC:390:ARG:NH1	2.28	0.48
46:CF:11:GLN:NE2	49:CF:501:GDP:O1A	2.46	0.48
46:CF:183:TYR:CD1	46:CF:388:MET:HE3	2.48	0.48
45:CG:356:ASN:OD1	45:CG:357:TYR:N	2.46	0.48
46:CH:68:LEU:HD23	46:CH:143:THR:OG1	2.13	0.48
46:CH:309:ARG:NH2	46:CH:426:GLN:O	2.44	0.48
46:CJ:201:VAL:HG22	46:CJ:266:PHE:O	2.13	0.48
46:CJ:255:VAL:HG11	45:CK:100:ALA:O	2.12	0.48
45:CM:205:ASP:HB2	45:CM:304:LYS:NZ	2.28	0.48
46:DF:304:ASP:OD2	46:DF:306:ARG:HG2	2.13	0.48
46:DH:183:TYR:CZ	46:DH:388:MET:HE2	2.48	0.48
46:DJ:287:PRO:HD3	46:DJ:325:GLU:OE1	2.13	0.48
46:DL:318:ARG:HH11	46:DL:358:PRO:HG3	1.78	0.48
46:ED:99:ASN:HA	46:ED:142:GLY:H	1.78	0.48
45:EE:271:SER:OG	45:EE:301:MET:SD	2.68	0.48
45:EE:277:SER:O	45:EE:281:ALA:N	2.46	0.48
45:EI:288:VAL:HG11	45:EI:327:ASP:HB3	1.94	0.48
46:EJ:3:GLU:HG3	46:EJ:62:ARG:NH1	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EL:58:ARG:HD2	46:FL:280:GLN:HE22	1.77	0.48
45:FA:194:LEU:O	45:FA:198:THR:HG22	2.13	0.48
46:FD:178:THR:HB	46:FD:181:GLU:HG3	1.94	0.48
46:FF:290:THR:HA	46:FF:293:MET:HG2	1.95	0.48
45:GI:56:THR:HG23	45:GI:58:ALA:H	1.78	0.48
46:HD:317:PHE:HB2	46:HD:353:ILE:HD13	1.95	0.48
45:HE:98:ASP:OD2	45:HE:99:ALA:N	2.46	0.48
45:HE:326:LYS:NZ	46:HH:219:THR:HA	2.28	0.48
45:HI:434:GLU:O	45:HI:437:ILE:HG12	2.13	0.48
45:HK:103:PHE:H	45:HK:408:TYR:HE2	1.61	0.48
45:HK:141:VAL:HG11	45:HK:172:TYR:CD1	2.48	0.48
45:HK:203:MET:N	45:HK:203:MET:HE2	2.28	0.48
46:HN:289:LEU:O	46:HN:293:MET:HG2	2.13	0.48
45:IA:88:HIS:HE1	45:IA:90:GLU:HB3	1.77	0.48
46:IB:88:ASP:OD2	46:IB:89:ASN:N	2.46	0.48
46:ID:317:PHE:CD1	46:ID:365:VAL:HG22	2.47	0.48
46:IF:274:THR:HB	46:IF:282:ARG:HH11	1.77	0.48
45:II:223:THR:HG23	45:II:225:THR:H	1.78	0.48
46:IJ:53:GLU:HG2	46:IJ:59:TYR:CE2	2.47	0.48
45:IK:346:TRP:CD1	46:IN:391:ARG:HG3	2.48	0.48
45:JE:258:ASN:HD21	46:JH:179:VAL:H	1.61	0.48
45:JE:272:TYR:HD2	45:JE:275:ILE:HD11	1.78	0.48
46:JF:285:THR:HB	46:JF:287:PRO:HD2	1.95	0.48
45:JG:96:LYS:HE2	45:JG:96:LYS:HA	1.95	0.48
45:JG:155:GLU:HA	45:JG:197:HIS:ND1	2.29	0.48
45:JK:119:LEU:O	45:JK:123:ARG:HG2	2.13	0.48
45:KC:69:ASP:OD2	45:KC:71:GLU:HG2	2.12	0.48
46:KD:10:GLY:O	46:KD:14:ASN:ND2	2.45	0.48
46:KD:380:ARG:O	46:KD:383:GLU:HG3	2.13	0.48
45:KK:49:PHE:CE1	45:KK:55:GLU:HB2	2.43	0.48
45:KK:68:LEU:HD13	45:KK:93:ILE:HB	1.94	0.48
46:LB:260:PHE:HB2	46:LB:263:LEU:HD13	1.94	0.48
45:LC:195:LEU:HD21	45:LC:264:ARG:HD2	1.95	0.48
46:LD:150:LEU:O	46:LD:154:LYS:HG2	2.13	0.48
45:LE:21:TRP:CH2	45:LE:63:PRO:HB3	2.47	0.48
45:LE:155:GLU:OE1	45:LE:197:HIS:NE2	2.46	0.48
45:LE:409:VAL:HG22	45:LE:415:GLU:HB3	1.95	0.48
46:LF:257:LEU:O	46:LF:312:THR:OG1	2.24	0.48
46:LJ:325:GLU:HA	46:LJ:328:GLU:HG3	1.95	0.48
46:MB:52:ASN:OD1	46:MB:62:ARG:NH2	2.46	0.48
45:MC:205:ASP:OD1	45:MC:303:ALA:HA	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:MD:122:LYS:HD2	46:MD:122:LYS:C	2.38	0.48
45:MK:47:ASP:HA	45:MK:49:PHE:CE2	2.48	0.48
45:MK:209:ILE:HG21	45:MK:227:LEU:HD13	1.95	0.48
45:MM:11:GLN:H	45:MM:11:GLN:CD	2.21	0.48
46:MN:321:MET:N	46:MN:321:MET:SD	2.87	0.48
46:MN:375:GLN:OE1	46:MN:423:GLN:HB3	2.13	0.48
45:NC:221:ARG:HA	46:ND:324:LYS:HZ1	1.78	0.48
45:NC:384:ILE:HD11	45:NC:432:TYR:OH	2.13	0.48
46:NH:6:HIS:O	46:NH:63:ALA:HA	2.13	0.48
46:NH:299:MET:HA	46:NH:299:MET:HE3	1.94	0.48
45:NM:223:THR:HG22	45:NM:224:TYR:H	1.77	0.48
46:OB:20:PHE:O	46:OB:24:ILE:HG12	2.12	0.48
46:OB:380:ARG:O	46:OB:383:GLU:HG3	2.12	0.48
45:OC:413:MET:HE3	45:OC:417:GLU:OE2	2.13	0.48
46:OD:86:ARG:HB2	46:OD:89:ASN:OD1	2.13	0.48
45:OE:183:GLU:N	45:OE:184:PRO:HD2	2.27	0.48
46:OF:117:LEU:HA	46:OF:120:VAL:HG12	1.94	0.48
45:OG:21:TRP:CZ2	45:OG:65:ALA:HB2	2.47	0.48
45:OM:84:ARG:HG3	45:OM:85:GLN:OE1	2.12	0.48
45:PE:17:GLY:HA2	45:PE:20:CYS:SG	2.53	0.48
45:PG:356:ASN:OD1	45:PG:357:TYR:N	2.46	0.48
46:PL:106:TYR:CD2	46:PL:403:MET:HE2	2.47	0.48
45:PM:211:ASP:O	45:PM:215:ARG:HG2	2.11	0.48
45:PM:230:LEU:HA	45:PM:233:GLN:HE21	1.78	0.48
46:PN:1:MET:HE3	46:PN:2:ARG:HG3	1.95	0.48
46:QB:9:GLY:HA2	46:QB:66:MET:O	2.13	0.48
45:QC:181:VAL:HG23	45:QC:182:VAL:HG23	1.95	0.48
45:QC:239:THR:HG23	45:QC:243:ARG:HH21	1.78	0.48
46:QF:204:ASN:HD21	49:QF:501:GDP:N2	2.11	0.48
45:QG:31:GLN:HG2	45:QG:35:GLN:H	1.78	0.48
45:QI:288:VAL:HG11	45:QI:323:VAL:HG23	1.95	0.48
45:QI:329:ASN:HA	45:QI:332:ILE:HG12	1.95	0.48
46:QJ:268:ILE:HG22	46:QJ:368:VAL:HG22	1.95	0.48
46:QL:284:LEU:HD11	46:QL:362:LYS:HE3	1.95	0.48
45:RG:346:TRP:CD1	46:RH:391:ARG:HG3	2.48	0.48
46:RH:312:THR:HG22	46:RH:370:ASN:HB3	1.93	0.48
45:RK:152:LEU:HA	45:RK:155:GLU:OE1	2.13	0.48
46:RL:222:TYR:HA	46:RL:225:LEU:HD12	1.95	0.48
45:RM:214:ARG:HH11	45:RM:215:ARG:NH1	2.11	0.48
46:RN:74:ASP:OD1	46:RN:77:ARG:NH2	2.46	0.48
46:SB:54:ALA:HB1	46:TB:281:TYR:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SB:252:LYS:HA	46:SB:255:VAL:HG12	1.95	0.48
46:SB:289:LEU:HD13	46:SB:365:VAL:HG23	1.95	0.48
46:SF:113:ILE:HG12	46:SF:117:LEU:CD2	2.40	0.48
46:SF:258:ILE:HG13	45:SG:407:TRP:CZ2	2.48	0.48
45:SG:63:PRO:HG2	45:SG:87:PHE:CD2	2.48	0.48
46:SJ:73:MET:HA	46:SJ:76:VAL:HG12	1.95	0.48
46:TD:324:LYS:NZ	45:TE:222:PRO:HG2	2.28	0.48
45:TE:141:VAL:HG12	45:TE:171:ILE:O	2.13	0.48
46:TH:1:MET:HA	46:TH:1:MET:HE2	1.95	0.48
46:TH:372:THR:HG21	46:TH:426:GLN:HB2	1.95	0.48
45:TK:76:ASP:O	45:TK:80:THR:HG23	2.13	0.48
45:UC:337:THR:O	45:UC:339:ARG:NH1	2.45	0.48
45:UG:212:ILE:HG13	45:UG:302:MET:HE1	1.94	0.48
46:UJ:21:TRP:CZ2	46:UJ:63:ALA:HB2	2.48	0.48
46:UJ:341:PHE:HB3	46:UJ:348:ASN:HD21	1.78	0.48
46:UL:214:THR:HG22	46:UL:297:LYS:HE3	1.94	0.48
45:UM:98:ASP:OD1	45:UM:99:ALA:N	2.46	0.48
45:VA:55:GLU:HG3	45:VA:57:GLY:H	1.77	0.48
45:VA:167:LEU:HG	45:VA:200:VAL:HB	1.95	0.48
45:VG:97:GLU:HG2	45:VG:105:ARG:HH22	1.78	0.48
45:VG:356:ASN:OD1	45:VG:357:TYR:N	2.46	0.48
46:VN:317:PHE:CD1	46:VN:365:VAL:HG22	2.48	0.48
45:WA:103:PHE:H	45:WA:408:TYR:HE2	1.60	0.48
45:WA:329:ASN:HA	45:WA:332:ILE:HG12	1.95	0.48
46:WD:288:GLU:HA	46:WD:291:GLN:HG3	1.95	0.48
46:WF:293:MET:HG2	46:WF:365:VAL:HG11	1.94	0.48
45:WG:5:ILE:HG12	45:WG:132:LEU:HD11	1.95	0.48
45:WG:183:GLU:N	45:WG:184:PRO:HD2	2.28	0.48
45:WG:265:ILE:HG12	45:WG:432:TYR:CE1	2.47	0.48
46:WL:6:HIS:NE2	46:WL:8:GLN:OE1	2.46	0.48
45:DC:63:PRO:HG2	45:DC:87:PHE:CE2	2.48	0.48
1:0A:87:LYS:HG3	1:0A:88:VAL:N	2.25	0.48
3:0C:56:THR:OG1	3:0C:57:TYR:N	2.46	0.48
3:0C:98:GLN:HA	3:0C:101:LEU:HG	1.95	0.48
14:0V:24:ARG:NH2	45:MM:433:GLU:HB2	2.27	0.48
17:1F:158:ASN:OD1	17:1F:159:THR:N	2.41	0.48
8:1H:308:HIS:O	8:1H:312:LYS:HG2	2.13	0.48
21:1L:531:LEU:HD13	21:1L:581:TRP:HB2	1.95	0.48
22:1M:171:ARG:NH1	22:1M:206:SER:O	2.46	0.48
23:1O:152:CYS:HA	45:UE:370:LYS:NZ	2.29	0.48
23:1O:239:ILE:HG12	46:UB:280:GLN:HA	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:1O:260:LEU:HD22	45:UA:372:MET:SD	2.53	0.48
25:1R:245:VAL:HG12	45:BC:57:GLY:HA2	1.94	0.48
25:1R:298:TYR:OH	25:1R:338:LYS:NZ	2.32	0.48
12:1T:275:LEU:HD12	13:1U:316:ASN:HD21	1.76	0.48
13:1U:194:ARG:HG3	13:1U:218:PHE:HE1	1.77	0.48
1:2A:39:TYR:N	45:MI:77:GLU:OE2	2.45	0.48
27:2C:65:PHE:HD2	45:LI:32:PRO:HB2	1.77	0.48
29:2G:96:LYS:HE2	46:HJ:56:GLY:H	1.78	0.48
21:2L:525:LEU:CD1	46:BN:320:ARG:HG2	2.44	0.48
21:2L:660:LYS:HB3	21:2L:699:TYR:CD1	2.48	0.48
21:2L:837:LYS:HZ3	21:2L:839:ASN:HA	1.79	0.48
22:2M:273:ASP:CG	22:2M:275:PRO:HD2	2.38	0.48
9:2N:192:LEU:O	9:2N:196:MET:HG2	2.13	0.48
23:2O:156:ARG:HA	23:2O:159:GLN:HG3	1.95	0.48
24:2P:494:LYS:O	24:2P:498:LYS:HE3	2.13	0.48
12:2T:12:LYS:HD2	12:2T:13:GLN:OE1	2.12	0.48
12:2T:269:LYS:HD2	13:2U:304:TRP:CZ2	2.48	0.48
13:2U:161:LYS:NZ	13:2U:174:THR:OG1	2.27	0.48
13:2U:292:HIS:HB3	13:2U:304:TRP:NE1	2.28	0.48
14:2V:161:TYR:HA	14:2V:162:GLY:HA2	1.61	0.48
16:3B:218:ILE:HG12	16:3B:232:VAL:CG1	2.43	0.48
27:3C:56:LYS:HE2	27:3C:71:TYR:CD2	2.49	0.48
5:3E:34:LEU:HD22	5:3E:47:GLU:HB3	1.94	0.48
5:3E:172:SER:HA	5:3E:181:PHE:CE1	2.47	0.48
31:3I:255:LYS:HE2	45:GI:214:ARG:NH2	2.28	0.48
11:3S:44:LYS:NZ	10:5Q:3:LYS:HB2	2.28	0.48
13:3U:87:TRP:C	13:3U:95:MET:HE1	2.38	0.48
13:3U:493:PHE:O	13:3U:494:LYS:HD3	2.13	0.48
13:3U:514:ILE:HB	13:3U:527:MET:HG3	1.95	0.48
34:4R:220:ILE:HD12	34:4R:221:PRO:HD2	1.95	0.48
34:4R:542:TYR:HB3	34:4R:547:GLU:OE2	2.13	0.48
35:4S:187:LEU:CB	35:4S:240:MET:HG2	2.43	0.48
36:5B:150:PHE:CZ	45:NG:26:LEU:HD11	2.48	0.48
36:5C:150:PHE:CE1	45:NK:26:LEU:HD11	2.47	0.48
37:5E:133:PRO:O	37:5E:137:VAL:HG23	2.13	0.48
37:5G:164:LYS:H	37:5G:165:PRO:CD	2.26	0.48
10:6Q:61:ALA:HB3	10:6Q:62:PRO:HD3	1.95	0.48
34:7R:555:ASN:O	34:7R:575:ARG:NH2	2.44	0.48
42:8L:60:UNK:C	46:SL:276:ARG:HH22	2.25	0.48
45:AA:60:LYS:NZ	45:AA:85:GLN:O	2.46	0.48
45:AI:9:VAL:HG23	45:AI:139:ASN:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AL:389:PHE:O	46:AL:392:LYS:NZ	2.45	0.48
46:AN:309:ARG:N	46:AN:426:GLN:HE22	2.11	0.48
46:BB:303:ALA:HB2	46:BB:377:MET:HE1	1.95	0.48
46:BJ:113:ILE:O	46:BJ:117:LEU:HD23	2.12	0.48
46:CD:178:THR:HB	46:CD:181:GLU:OE2	2.14	0.48
46:CF:232:ALA:HB1	46:CF:268:ILE:HD12	1.96	0.48
46:CH:5:VAL:HG12	46:CH:62:ARG:HD3	1.94	0.48
46:CJ:116:VAL:HA	46:CJ:119:VAL:HG22	1.95	0.48
46:CJ:193:VAL:HG22	46:CJ:262:ARG:NH1	2.28	0.48
45:CK:174:SER:HB2	45:CK:177:VAL:O	2.14	0.48
46:CL:268:ILE:HG13	46:CL:300:MET:HG3	1.95	0.48
45:CM:277:SER:C	45:CM:369:ALA:HB2	2.38	0.48
45:DA:188:ILE:HD12	45:DA:425:LEU:HD11	1.94	0.48
45:DE:280:LYS:HB3	45:CE:89:PRO:HG2	1.95	0.48
46:DF:66:MET:HE2	46:DF:116:VAL:HG21	1.95	0.48
45:DG:271:SER:HA	45:DG:302:MET:HG2	1.95	0.48
45:DG:334:THR:O	45:DG:338:LYS:HE3	2.12	0.48
46:DN:262:ARG:NH1	46:DN:421:GLU:OE1	2.46	0.48
46:EB:97:ALA:HB3	46:EB:143:THR:HB	1.95	0.48
45:EE:231:ILE:O	45:EE:235:ILE:HG12	2.14	0.48
45:EG:231:ILE:O	45:EG:235:ILE:HG12	2.13	0.48
46:EH:405:GLU:HA	46:EH:408:PHE:HD2	1.77	0.48
46:EJ:12:CYS:HA	46:EJ:15:GLN:NE2	2.27	0.48
46:EL:374:ILE:HG12	46:EL:378:PHE:HE1	1.78	0.48
46:EN:16:ILE:HD12	46:EN:229:VAL:HG11	1.96	0.48
46:FD:156:ARG:CZ	46:FD:195:ASN:HA	2.43	0.48
46:FF:248:SER:HA	46:FF:252:LYS:HD2	1.94	0.48
46:FH:11:GLN:HE22	49:FH:501:GDP:PA	2.36	0.48
46:FH:215:LEU:HD21	46:FH:273:LEU:HD12	1.95	0.48
46:FH:318:ARG:HG2	46:FH:354:CYS:SG	2.53	0.48
46:FJ:97:ALA:HB3	46:FJ:143:THR:HB	1.95	0.48
45:FM:212:ILE:HD11	45:FM:300:ASN:HA	1.94	0.48
45:GA:238:LEU:HD12	45:GA:318:MET:HE1	1.96	0.48
46:GB:233:MET:HE3	46:GB:233:MET:O	2.12	0.48
45:GC:398:MET:HG2	46:GD:345:ILE:HD12	1.95	0.48
45:GE:98:ASP:OD2	45:GE:99:ALA:N	2.46	0.48
46:GH:103:LYS:HA	46:GH:107:THR:HG22	1.95	0.48
45:GI:238:LEU:HD11	45:GI:255:PHE:CE2	2.49	0.48
45:GI:285:GLN:HE22	45:GI:287:SER:CB	2.21	0.48
46:GN:359:LYS:HD3	46:GN:359:LYS:C	2.38	0.48
46:HF:16:ILE:HD13	46:HF:226:ASN:OD1	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HG:386:GLU:O	45:HG:390:ARG:HG2	2.12	0.48
45:IE:174:SER:HB3	45:IE:177:VAL:O	2.13	0.48
45:IE:183:GLU:N	45:IE:184:PRO:HD2	2.28	0.48
45:IG:215:ARG:NE	45:IG:216:ASN:OD1	2.37	0.48
45:IG:326:LYS:HZ1	46:IJ:219:THR:HA	1.78	0.48
46:IH:186:THR:HA	46:IH:189:VAL:HG12	1.95	0.48
46:IJ:211:CYS:HB2	46:IJ:217:LEU:HD21	1.93	0.48
45:IK:122:ILE:HG21	45:IK:157:LEU:HD11	1.94	0.48
46:IL:286:VAL:HB	46:IL:325:GLU:OE2	2.13	0.48
45:IM:120:ASP:OD1	45:IM:124:LYS:NZ	2.46	0.48
45:IM:387:VAL:HG12	45:IM:390:ARG:NH1	2.28	0.48
46:IN:113:ILE:HD13	46:IN:150:LEU:HD22	1.95	0.48
46:JF:19:LYS:NZ	46:JF:227:HIS:HB2	2.27	0.48
46:JH:8:GLN:NE2	46:JH:65:LEU:HB3	2.27	0.48
46:JJ:73:MET:CE	46:JJ:92:PHE:HB3	2.42	0.48
45:JK:205:ASP:OD2	45:JK:304:LYS:N	2.39	0.48
45:JM:222:PRO:HD2	46:JN:324:LYS:CD	2.42	0.48
46:JN:190:HIS:CD2	46:JN:414:ASN:HD22	2.31	0.48
45:KA:349:THR:O	46:KD:179:VAL:HG23	2.13	0.48
45:KC:115:VAL:O	45:KC:119:LEU:HD23	2.13	0.48
46:KH:8:GLN:HE21	46:KH:65:LEU:CD2	2.25	0.48
46:KJ:32:PRO:HG3	46:KJ:81:PHE:HE2	1.78	0.48
46:KJ:211:CYS:SG	46:KJ:220:PRO:HB3	2.53	0.48
46:KN:201:VAL:HG21	46:KN:374:ILE:HD11	1.95	0.48
45:LA:311:LYS:N	45:LA:382:THR:OG1	2.44	0.48
46:LB:139:LEU:HD22	46:LB:188:SER:HB2	1.95	0.48
46:LD:58:ARG:NH1	46:MD:280:GLN:HE22	2.11	0.48
46:LH:206:ALA:O	46:LH:210:ILE:HG12	2.13	0.48
45:LI:407:TRP:CH2	46:LJ:255:VAL:HA	2.48	0.48
46:LJ:68:LEU:HD12	46:LJ:97:ALA:HB2	1.95	0.48
46:LJ:372:THR:HA	46:LJ:422:TYR:CE2	2.48	0.48
46:LL:32:PRO:HA	46:LL:84:LEU:HD11	1.94	0.48
46:LL:186:THR:HA	46:LL:189:VAL:HG12	1.94	0.48
46:MB:382:ALA:HB2	46:MB:415:MET:HE3	1.95	0.48
45:ME:183:GLU:N	45:ME:184:PRO:HD2	2.27	0.48
46:MJ:192:LEU:HD21	46:MJ:199:CYS:HB2	1.95	0.48
46:NB:32:PRO:HD3	46:NB:81:PHE:HE1	1.77	0.48
45:NC:128:ASN:HD21	45:OC:285:GLN:HE21	1.59	0.48
45:NG:111:GLY:O	45:NG:115:VAL:HG13	2.13	0.48
45:NG:274:PRO:HG3	45:NG:286:LEU:HD13	1.94	0.48
46:NH:256:ASN:ND2	46:NH:350:LYS:HE3	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NK:105:ARG:HA	45:NK:109:THR:HB	1.94	0.48
46:OB:97:ALA:HB3	46:OB:143:THR:HB	1.95	0.48
46:OB:211:CYS:HB3	46:OB:217:LEU:HD21	1.94	0.48
45:OE:100:ALA:HA	46:OF:252:LYS:HG2	1.95	0.48
46:OH:6:HIS:HE1	46:OH:136:THR:HG23	1.77	0.48
45:OI:275:ILE:HG23	45:OI:368:LEU:HD11	1.95	0.48
46:ON:314:SER:OG	46:ON:368:VAL:HB	2.14	0.48
45:PC:100:ALA:O	46:PD:255:VAL:HG21	2.13	0.48
45:PE:141:VAL:HG11	45:PE:172:TYR:HD1	1.78	0.48
45:PE:264:ARG:HB2	45:PE:264:ARG:NH1	2.28	0.48
45:PG:154:LEU:HD22	45:PG:166:LYS:HD3	1.94	0.48
45:PG:222:PRO:HD2	46:PH:324:LYS:NZ	2.28	0.48
45:PI:51:THR:HG21	45:PI:243:ARG:HB3	1.95	0.48
46:PL:173:PRO:HD3	46:PL:380:ARG:CZ	2.43	0.48
46:PN:330:MET:N	46:PN:330:MET:HE2	2.27	0.48
45:QA:193:SER:O	45:QA:197:HIS:ND1	2.44	0.48
46:QB:97:ALA:HB3	46:QB:143:THR:HB	1.95	0.48
46:QD:99:ASN:HA	46:QD:142:GLY:H	1.77	0.48
45:QE:88:HIS:HB3	45:QE:91:GLN:CG	2.43	0.48
46:QF:5:VAL:HG11	46:QF:123:GLU:OE1	2.14	0.48
45:QG:311:LYS:HZ1	45:QG:343:PHE:C	2.21	0.48
46:QJ:45:GLU:CD	46:QJ:46:ARG:HG2	2.39	0.48
45:QK:221:ARG:HD2	45:QK:221:ARG:HA	1.62	0.48
45:QM:340:THR:HG23	45:QM:341:ILE:HG13	1.95	0.48
46:QN:6:HIS:O	46:QN:63:ALA:HA	2.13	0.48
46:QN:16:ILE:HD12	46:QN:229:VAL:HG11	1.94	0.48
46:RD:183:TYR:CZ	46:RD:388:MET:HE2	2.46	0.48
45:RE:68:LEU:HD13	45:RE:93:ILE:HB	1.94	0.48
45:RI:138:PHE:CD1	45:RI:169:PHE:HB2	2.49	0.48
46:RL:22:GLU:HA	46:RL:81:PHE:CD2	2.48	0.48
46:RL:414:ASN:O	46:RL:418:LEU:HD23	2.13	0.48
45:RM:371:VAL:HG12	45:RM:373:ARG:H	1.78	0.48
45:SA:280:LYS:HD3	45:SA:283:HIS:ND1	2.28	0.48
45:SG:296:PHE:HE2	45:SG:335:ILE:HD12	1.77	0.48
45:SI:183:GLU:N	45:SI:184:PRO:HD2	2.28	0.48
46:SJ:381:VAL:HG13	46:SJ:415:MET:HE1	1.95	0.48
45:TC:336:LYS:HE3	45:TC:351:PHE:CE1	2.48	0.48
45:TC:390:ARG:HG3	45:TC:391:LEU:HD12	1.96	0.48
45:TI:387:VAL:HA	45:TI:390:ARG:HG2	1.95	0.48
46:TL:31:ASP:HB3	46:TL:37:HIS:HD2	1.79	0.48
46:TL:327:ASP:HA	46:TL:330:MET:HG3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TM:68:LEU:HD11	45:TM:118:CYS:HB2	1.95	0.48
45:UA:231:ILE:O	45:UA:235:ILE:HG12	2.13	0.48
46:UB:2:ARG:O	46:UB:131:GLN:NE2	2.46	0.48
46:UB:10:GLY:O	46:UB:14:ASN:ND2	2.45	0.48
45:UC:171:ILE:HG23	45:UC:204:LEU:O	2.12	0.48
46:UF:156:ARG:HD2	46:UF:164:MET:HE1	1.94	0.48
45:UG:132:LEU:HD22	45:UG:164:LYS:HE2	1.95	0.48
46:UH:64:ILE:HD13	46:UH:119:VAL:HG13	1.95	0.48
45:UI:265:ILE:HG22	45:UI:380:ASN:HD21	1.77	0.48
45:UI:302:MET:HA	45:UI:302:MET:HE3	1.94	0.48
45:UK:207:GLU:HA	45:UK:210:TYR:CD2	2.48	0.48
45:UM:88:HIS:CE1	45:UM:90:GLU:HG3	2.48	0.48
46:UN:210:ILE:O	46:UN:214:THR:OG1	2.27	0.48
45:VA:121:ARG:NH2	45:VA:124:LYS:HD2	2.21	0.48
45:VA:324:VAL:HG11	45:VA:326:LYS:NZ	2.26	0.48
46:VD:117:LEU:HD13	46:VD:121:ARG:HH22	1.77	0.48
45:VE:145:THR:OG1	47:VE:501:GTP:O3G	2.19	0.48
45:VG:260:VAL:HB	46:VJ:397:TRP:CZ2	2.48	0.48
46:VH:117:LEU:HA	46:VH:120:VAL:HG12	1.94	0.48
45:VI:107:HIS:ND1	45:VI:107:HIS:O	2.46	0.48
45:VI:285:GLN:O	45:VI:373:ARG:NH2	2.46	0.48
46:VJ:8:GLN:HG3	46:VJ:14:ASN:ND2	2.28	0.48
45:VK:223:THR:HG23	45:VK:225:THR:H	1.78	0.48
45:VK:352:LYS:HE2	46:VN:179:VAL:HG22	1.94	0.48
46:VL:49:VAL:HG11	46:VL:241:ARG:HG2	1.95	0.48
46:VL:238:CYS:SG	46:VL:318:ARG:NH1	2.86	0.48
45:WA:156:ARG:HG2	45:WA:156:ARG:HH11	1.78	0.48
46:WD:16:ILE:HD13	46:WD:226:ASN:OD1	2.12	0.48
46:WJ:268:ILE:HG22	46:WJ:368:VAL:HG13	1.95	0.48
46:WJ:290:THR:HG21	46:WJ:329:GLN:HG3	1.94	0.48
45:WK:270:SER:OG	45:WK:302:MET:SD	2.67	0.48
45:WM:183:GLU:N	45:WM:184:PRO:HD2	2.28	0.48
4:0D:171:LEU:HD12	45:EC:89:PRO:HB3	1.95	0.48
7:0G:26:LYS:NZ	45:IK:84:ARG:HD2	2.28	0.48
7:0G:120:TYR:O	7:0G:122:LYS:N	2.46	0.48
8:0H:380:GLU:HA	8:0H:383:LYS:HG2	1.94	0.48
13:0U:319:HIS:HA	13:0U:345:ARG:HH12	1.78	0.48
15:0X:32:LEU:O	15:1X:137:GLN:NE2	2.46	0.48
3:1C:33:ALA:O	3:1C:34:LYS:HB2	2.14	0.48
3:1C:97:LYS:HD3	3:1C:97:LYS:N	2.29	0.48
19:1J:54:ASN:HA	45:IC:221:ARG:NH1	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:1J:247:PRO:HB3	45:II:217:LEU:O	2.13	0.48
24:1P:315:ARG:O	24:1P:319:GLU:HG2	2.13	0.48
25:1R:509:TRP:CD1	25:1R:513:ASN:HD22	2.31	0.48
11:1S:269:VAL:HG12	10:2Q:35:LYS:HE2	1.93	0.48
12:1T:106:ILE:HG21	12:1T:213:LEU:HD22	1.94	0.48
4:2D:60:LYS:O	4:2D:64:THR:HG23	2.13	0.48
5:2E:107:PHE:HE2	5:2E:120:LEU:HD23	1.78	0.48
28:2F:12:GLN:O	28:2F:15:ILE:HG12	2.13	0.48
21:2L:792:LYS:HA	21:2L:792:LYS:HE2	1.95	0.48
9:2N:69:LYS:HG2	9:2N:130:VAL:HA	1.94	0.48
23:2O:143:MET:O	23:2O:147:VAL:HG23	2.13	0.48
12:2T:229:THR:HG22	12:2T:232:HIS:HE1	1.79	0.48
14:2V:94:GLY:HA3	46:LF:194:GLU:OE1	2.13	0.48
21:3L:129:SER:OG	21:3L:130:GLN:N	2.46	0.48
23:3O:338:LEU:O	23:3O:341:LYS:HG3	2.13	0.48
10:3Q:71:ILE:HG21	10:3Q:167:PHE:HD2	1.76	0.48
25:3R:62:MET:HE1	46:ML:41:ASP:N	2.29	0.48
12:3T:3:LEU:HA	12:3T:6:ILE:HD12	1.95	0.48
12:3T:38:LYS:HE2	12:3T:42:HIS:CE1	2.47	0.48
13:3U:224:ARG:HH12	45:WK:40:LYS:HG2	1.78	0.48
34:4R:219:LYS:HE3	46:BH:78:ALA:HB3	1.94	0.48
34:5R:285:THR:N	34:5R:306:ARG:HH22	2.12	0.48
34:5R:414:ASN:O	34:5R:418:THR:HG22	2.13	0.48
39:6F:70:ASN:HA	46:JF:361:LEU:HD12	1.95	0.48
10:6Q:136:LEU:O	10:6Q:140:THR:HG23	2.13	0.48
34:7R:317:HIS:O	46:CB:227:HIS:NE2	2.47	0.48
46:AF:244:GLY:HA2	46:AF:355:ASP:OD1	2.13	0.48
45:AI:322:ASP:OD1	45:AI:373:ARG:NH1	2.46	0.48
45:BA:174:SER:C	45:BA:390:ARG:HH21	2.21	0.48
46:BD:2:ARG:HB2	46:BD:131:GLN:NE2	2.29	0.48
46:BD:117:LEU:HA	46:BD:120:VAL:HG12	1.94	0.48
45:BG:261:PRO:HA	46:BJ:394:PHE:CE2	2.48	0.48
46:BH:274:THR:HG23	46:BH:279:GLN:OE1	2.13	0.48
45:BK:272:TYR:HD1	45:BK:275:ILE:HD11	1.79	0.48
46:BL:36:TYR:CZ	46:BL:44:LEU:HD11	2.47	0.48
45:BM:207:GLU:OE1	45:BM:207:GLU:N	2.46	0.48
46:CB:376:GLU:HA	46:CB:379:LYS:NZ	2.27	0.48
46:CF:322:SER:O	45:CG:221:ARG:NH2	2.45	0.48
46:CJ:208:TYR:CE1	46:CJ:225:LEU:HD11	2.48	0.48
45:CK:252:ILE:HA	45:CK:255:PHE:CD1	2.49	0.48
46:DB:86:ARG:CZ	46:EB:278:SER:HA	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DE:17:GLY:HA2	45:DE:20:CYS:SG	2.53	0.48
45:DE:31:GLN:HG2	45:DE:35:GLN:O	2.13	0.48
46:DL:256:ASN:HD21	46:DL:350:LYS:CE	2.25	0.48
46:DN:309:ARG:NH2	46:DN:426:GLN:O	2.39	0.48
45:EC:136:LEU:HD23	45:EC:167:LEU:HB2	1.95	0.48
45:EC:155:GLU:HG2	45:EC:197:HIS:CD2	2.49	0.48
45:EC:260:VAL:HB	46:ED:397:TRP:CZ2	2.46	0.48
45:EC:315:CYS:SG	45:EC:377:MET:HE2	2.53	0.48
46:EF:246:LEU:O	46:EF:352:SER:OG	2.28	0.48
45:EK:26:LEU:HD22	45:EK:364:PRO:HD3	1.95	0.48
45:EK:423:GLU:OE1	45:EK:423:GLU:N	2.46	0.48
46:EL:103:LYS:HG2	46:EL:108:GLU:OE2	2.13	0.48
45:EM:288:VAL:HA	45:EM:291:ILE:HG12	1.93	0.48
46:FB:238:CYS:SG	46:FB:239:CYS:N	2.87	0.48
46:FF:407:GLU:O	46:FF:410:GLU:HG3	2.13	0.48
45:FK:221:ARG:HG3	46:FL:322:SER:OG	2.12	0.48
45:FK:384:ILE:O	45:FK:387:VAL:HG22	2.13	0.48
46:GB:257:LEU:HD12	46:GB:312:THR:HG23	1.96	0.48
46:GD:294:PHE:CD2	46:GD:333:VAL:HG11	2.48	0.48
45:GG:296:PHE:CE1	45:GG:377:MET:HE2	2.47	0.48
45:GK:256:GLN:N	45:GK:256:GLN:OE1	2.45	0.48
45:GK:272:TYR:HD2	45:GK:275:ILE:HD11	1.78	0.48
45:GM:280:LYS:HD3	45:GM:283:HIS:ND1	2.28	0.48
46:GN:377:MET:O	46:GN:381:VAL:HG22	2.13	0.48
45:HA:180:ALA:HA	46:HB:350:LYS:HD2	1.94	0.48
46:HB:164:MET:H	46:HB:197:ASP:HB2	1.78	0.48
46:HD:44:LEU:HA	46:HD:47:ILE:HB	1.95	0.48
45:IA:183:GLU:N	45:IA:184:PRO:HD2	2.28	0.48
45:IC:244:PHE:HB2	45:IC:356:ASN:HD21	1.77	0.48
45:IG:227:LEU:O	45:IG:231:ILE:HG12	2.13	0.48
45:JA:112:LYS:HA	45:JA:115:VAL:HG22	1.94	0.48
46:JD:21:TRP:CH2	46:JD:61:PRO:HB3	2.48	0.48
46:JD:293:MET:HE2	46:JD:367:PHE:HB2	1.95	0.48
46:JF:73:MET:HE1	46:JF:91:VAL:O	2.13	0.48
46:JF:218:THR:HG23	46:JF:219:THR:HG23	1.95	0.48
45:JG:191:THR:HA	45:JG:194:LEU:HG	1.95	0.48
46:JL:187:LEU:HD11	46:JL:408:PHE:HE2	1.78	0.48
46:JL:304:ASP:OD2	46:JL:306:ARG:NH1	2.46	0.48
45:KA:346:TRP:CD1	46:KD:391:ARG:HG3	2.48	0.48
46:KF:208:TYR:CE1	46:KF:225:LEU:HD11	2.48	0.48
45:KG:10:GLY:O	45:KG:14:ILE:HG12	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KI:121:ARG:CZ	45:KI:124:LYS:HD3	2.42	0.48
46:KL:239:CYS:SG	46:KL:247:ASN:HA	2.53	0.48
46:KL:275:SER:O	46:KL:279:GLN:HG3	2.13	0.48
45:KM:407:TRP:HE1	46:KN:258:ILE:HG13	1.78	0.48
46:KN:2:ARG:HD2	46:KN:240:LEU:HD11	1.94	0.48
46:KN:121:ARG:NH2	46:KN:158:GLU:OE2	2.42	0.48
45:LG:102:ASN:ND2	45:LG:105:ARG:HG3	2.29	0.48
45:LI:107:HIS:ND1	45:LI:107:HIS:O	2.47	0.48
46:MB:317:PHE:HB2	46:MB:353:ILE:HD13	1.95	0.48
46:MD:183:TYR:CZ	46:MD:388:MET:HE3	2.48	0.48
46:MJ:180:VAL:O	46:MJ:180:VAL:HG12	2.13	0.48
46:MN:3:GLU:HG3	46:MN:62:ARG:NH1	2.28	0.48
45:NA:28:HIS:CE1	45:NA:49:PHE:HB3	2.48	0.48
45:NC:345:ASP:OD1	45:NC:346:TRP:N	2.46	0.48
45:NE:280:LYS:HE3	45:NE:282:TYR:O	2.13	0.48
46:NF:4:ILE:HG13	46:NF:132:GLY:O	2.14	0.48
45:OA:88:HIS:O	45:OA:91:GLN:HG3	2.13	0.48
45:OE:88:HIS:ND1	45:OE:89:PRO:HD2	2.29	0.48
46:OL:321:MET:SD	46:OL:321:MET:N	2.86	0.48
45:OM:137:VAL:HG23	45:OM:168:GLY:HA2	1.95	0.48
45:OM:286:LEU:N	45:OM:290:GLU:OE2	2.46	0.48
45:PA:258:ASN:HB3	45:PA:352:LYS:HE3	1.95	0.48
45:PA:407:TRP:HH2	46:PB:258:ILE:HB	1.79	0.48
45:PC:70:LEU:HA	45:PC:95:GLY:H	1.78	0.48
46:PD:252:LYS:O	46:PD:256:ASN:HB2	2.13	0.48
46:PD:313:ALA:HB1	46:PD:367:PHE:HE1	1.79	0.48
45:PE:203:MET:HA	45:PE:203:MET:HE2	1.96	0.48
45:PG:254:GLU:O	45:PG:258:ASN:ND2	2.46	0.48
46:PL:273:LEU:N	46:PL:292:GLN:HE22	2.08	0.48
45:PM:196:GLU:OE2	45:PM:264:ARG:NH1	2.44	0.48
46:PN:86:ARG:HD2	46:QL:281:TYR:CD2	2.48	0.48
46:QB:10:GLY:O	46:QB:14:ASN:ND2	2.47	0.48
45:QC:244:PHE:HB2	45:QC:356:ASN:HD21	1.77	0.48
45:QE:105:ARG:O	45:QE:110:ILE:HG12	2.14	0.48
45:QG:331:SER:O	45:QG:335:ILE:HG23	2.14	0.48
46:QH:158:GLU:HG2	46:QH:159:TYR:CD1	2.48	0.48
45:QI:52:PHE:HZ	45:QI:239:THR:HG21	1.77	0.48
45:QI:101:ASN:HA	45:QI:144:GLY:H	1.78	0.48
45:QI:288:VAL:HA	45:QI:291:ILE:HG12	1.95	0.48
46:QJ:55:THR:HG23	46:RJ:283:ALA:HA	1.94	0.48
46:QJ:86:ARG:HH22	46:RJ:282:ARG:HA	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QK:51:THR:HG21	45:QK:243:ARG:HB3	1.95	0.48
46:QL:145:SER:HB2	46:QL:188:SER:HB3	1.95	0.48
45:QM:17:GLY:HA2	45:QM:20:CYS:SG	2.52	0.48
46:RD:148:GLY:O	46:RD:152:ILE:HG12	2.13	0.48
46:RF:68:LEU:HD13	46:RF:143:THR:OG1	2.14	0.48
46:RF:86:ARG:NH2	46:SF:282:ARG:HB2	2.27	0.48
45:RI:338:LYS:HG2	45:RI:340:THR:HG22	1.94	0.48
46:RJ:409:THR:HA	46:RJ:412:GLU:OE1	2.13	0.48
45:RK:274:PRO:HG3	45:RK:286:LEU:HD12	1.96	0.48
45:RK:293:ASN:O	45:RK:297:GLU:HG2	2.12	0.48
46:SB:316:LEU:HD13	46:SB:352:SER:OG	2.12	0.48
46:SD:256:ASN:OD1	45:SE:181:VAL:HG22	2.14	0.48
46:SF:3:GLU:OE1	46:SF:3:GLU:HA	2.14	0.48
45:SG:120:ASP:HB3	45:SG:124:LYS:HZ1	1.78	0.48
45:SK:277:SER:O	45:SK:281:ALA:N	2.46	0.48
45:SK:430:LYS:HA	45:SK:433:GLU:CD	2.38	0.48
45:TC:387:VAL:HG12	45:TC:390:ARG:HE	1.77	0.48
45:TG:152:LEU:HG	45:TG:156:ARG:NH1	2.28	0.48
46:TL:49:VAL:HG21	46:TL:241:ARG:HB3	1.94	0.48
46:TN:198:GLU:HG2	46:TN:266:PHE:HE2	1.78	0.48
46:UF:286:VAL:HG21	46:UF:321:MET:HE2	1.95	0.48
46:UJ:105:HIS:CE1	46:UJ:150:LEU:HD12	2.47	0.48
46:UL:73:MET:HA	46:UL:76:VAL:HG12	1.94	0.48
45:UM:294:SER:O	45:UM:297:GLU:HG2	2.13	0.48
46:UN:117:LEU:O	46:UN:121:ARG:HG3	2.14	0.48
46:UN:318:ARG:NE	46:UN:364:ALA:HB3	2.28	0.48
45:VA:88:HIS:CD2	45:VA:90:GLU:HG3	2.48	0.48
46:VB:58:ARG:HD2	46:VB:59:TYR:N	2.28	0.48
45:VE:251:ASP:OD2	45:VE:252:ILE:N	2.46	0.48
45:VK:352:LYS:NZ	46:VN:179:VAL:H	2.09	0.48
45:VM:167:LEU:HG	45:VM:200:VAL:HB	1.94	0.48
45:WA:118:CYS:O	45:WA:122:ILE:HG12	2.13	0.48
45:WA:180:ALA:HA	46:WB:350:LYS:HZ3	1.78	0.48
46:WB:178:THR:HB	46:WB:181:GLU:HG3	1.96	0.48
45:WC:46:ASP:OD1	45:WC:47:ASP:N	2.46	0.48
45:WC:356:ASN:OD1	45:WC:357:TYR:N	2.46	0.48
45:WE:51:THR:HG23	45:WE:52:PHE:CD1	2.49	0.48
46:WF:210:ILE:O	46:WF:214:THR:OG1	2.27	0.48
45:WK:433:GLU:O	45:WK:437:ILE:HG23	2.13	0.48
46:WL:105:HIS:CE1	46:WL:150:LEU:HD13	2.47	0.48
45:DC:70:LEU:HD13	45:DC:145:THR:OG1	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:0C:59:LYS:HZ2	3:0C:102:ARG:CZ	2.26	0.48
5:0E:117:ILE:HD11	5:0E:156:ASP:N	2.28	0.48
7:0G:171:THR:OG1	45:KM:1:MET:SD	2.72	0.48
8:1H:56:GLU:O	8:1H:60:ARG:HG2	2.13	0.48
24:1P:278:LYS:O	24:1P:282:VAL:HG23	2.14	0.48
24:1P:337:GLN:O	24:1P:341:LEU:HG	2.13	0.48
13:1U:512:ARG:HB3	13:1U:530:GLY:HA2	1.95	0.48
14:1V:186:HIS:CD2	12:3T:89:ILE:HG21	2.48	0.48
1:2A:35:TYR:HE2	1:2A:41:THR:HG23	1.78	0.48
16:2B:76:ARG:NH1	16:2B:78:GLU:OE1	2.45	0.48
27:2C:218:ARG:HD2	46:KJ:320:ARG:NH1	2.28	0.48
21:2L:799:LEU:HD11	21:2L:807:ASP:HB3	1.95	0.48
23:2O:474:LEU:HA	23:2O:477:MET:HE2	1.95	0.48
25:2R:68:MET:HG3	25:2R:73:ASP:HB2	1.95	0.48
25:2R:329:PHE:HB2	25:2R:361:PHE:CE1	2.47	0.48
12:2T:74:ILE:O	12:2T:74:ILE:HG13	2.14	0.48
13:2U:580:ARG:HB2	13:2U:593:VAL:HG22	1.96	0.48
14:2V:22:ARG:NH2	45:ME:422:ARG:HG3	2.27	0.48
26:2W:265:LEU:HG	26:2W:269:LYS:NZ	2.28	0.48
15:2X:18:ILE:O	15:2X:18:ILE:HG13	2.11	0.48
15:2X:80:MET:O	15:2X:83:MET:HG3	2.14	0.48
21:3L:33:LYS:HE3	21:3L:117:GLU:O	2.12	0.48
11:3S:33:ASN:ND2	11:3S:126:LYS:HB3	2.28	0.48
11:3S:36:ALA:C	11:3S:37:LYS:HD2	2.38	0.48
11:3S:181:LYS:HE3	11:3S:226:ILE:HD11	1.95	0.48
12:3T:38:LYS:HG3	12:3T:42:HIS:HE1	1.78	0.48
12:3T:226:ASP:OD1	12:3T:227:THR:N	2.47	0.48
35:4S:106:PHE:HD1	35:4S:142:LEU:HD22	1.77	0.48
37:5F:188:GLN:NE2	37:5F:192:ASN:OD1	2.45	0.48
37:5H:27:ARG:NH2	45:OK:221:ARG:O	2.47	0.48
46:AB:148:GLY:O	46:AB:151:LEU:HG	2.12	0.48
46:AD:256:ASN:ND2	46:AD:350:LYS:HD3	2.28	0.48
46:AH:237:THR:HG22	46:AH:250:LEU:HD11	1.94	0.48
46:AJ:190:HIS:CE1	46:AJ:414:ASN:HD22	2.31	0.48
45:AK:176:GLN:O	46:AL:347:ASN:ND2	2.45	0.48
46:AL:156:ARG:HH22	46:AL:197:ASP:CG	2.21	0.48
45:BC:100:ALA:HA	46:BD:252:LYS:HG2	1.94	0.48
45:BC:120:ASP:HA	45:BC:123:ARG:HH12	1.78	0.48
46:BD:3:GLU:CD	46:BD:127:CYS:HB2	2.39	0.48
46:BH:2:ARG:HB2	46:BH:131:GLN:NE2	2.11	0.48
46:BJ:58:ARG:HD3	46:CH:280:GLN:NE2	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BM:292:THR:HG21	45:BM:331:SER:HB3	1.95	0.48
46:BN:21:TRP:HA	46:BN:24:ILE:HG22	1.95	0.48
46:BN:178:THR:HG22	46:BN:180:VAL:H	1.78	0.48
46:CB:334:GLN:HA	46:CB:341:PHE:HE2	1.77	0.48
46:CD:287:PRO:HA	46:CD:329:GLN:HE22	1.78	0.48
46:CF:141:GLY:O	46:CF:145:SER:CB	2.62	0.48
46:CH:139:LEU:HG	46:CH:168:SER:HB3	1.93	0.48
46:CL:8:GLN:HG3	46:CL:14:ASN:OD1	2.12	0.48
45:DA:147:SER:HB2	45:DA:190:SER:HB3	1.94	0.48
46:DF:382:ALA:HB2	46:DF:415:MET:HE3	1.96	0.48
46:DL:313:ALA:HB1	46:DL:367:PHE:HE1	1.78	0.48
46:DN:372:THR:HA	46:DN:422:TYR:HE2	1.78	0.48
45:EC:116:ASP:OD1	45:EC:116:ASP:N	2.47	0.48
46:ED:258:ILE:HG23	46:ED:266:PHE:HZ	1.79	0.48
45:EE:331:SER:O	45:EE:335:ILE:HG12	2.14	0.48
46:EJ:6:HIS:O	46:EJ:63:ALA:HA	2.12	0.48
45:EK:107:HIS:ND1	45:EK:107:HIS:O	2.47	0.48
45:EK:338:LYS:NZ	45:EK:340:THR:HG22	2.28	0.48
46:EL:375:GLN:OE1	46:EL:423:GLN:HB3	2.14	0.48
45:FC:210:TYR:HB3	46:FD:324:LYS:NZ	2.28	0.48
46:FF:200:MET:HG2	46:FF:266:PHE:HB2	1.94	0.48
45:FI:253:THR:O	45:FI:256:GLN:NE2	2.47	0.48
46:FL:86:ARG:NH1	46:GL:281:TYR:HB3	2.28	0.48
46:FL:101:TRP:HB2	46:FL:184:ASN:HB3	1.96	0.48
45:FM:108:TYR:HA	45:FM:112:LYS:HE3	1.94	0.48
46:FN:10:GLY:O	46:FN:14:ASN:ND2	2.46	0.48
45:GA:210:TYR:CE1	45:GA:227:LEU:HD11	2.49	0.48
46:GD:257:LEU:HD21	46:GD:314:SER:HB2	1.96	0.48
45:GE:2:ARG:CB	45:GE:133:GLN:HE22	2.23	0.48
45:GE:55:GLU:OE1	45:GE:61:HIS:NE2	2.47	0.48
45:GE:326:LYS:NZ	46:GH:208:TYR:HE1	2.12	0.48
46:GH:372:THR:HA	46:GH:422:TYR:CE2	2.48	0.48
45:HA:293:ASN:O	45:HA:297:GLU:HG2	2.14	0.48
46:HH:69:GLU:CD	46:HH:71:GLY:H	2.21	0.48
46:HJ:154:LYS:O	46:HJ:157:GLU:HG2	2.14	0.48
45:HK:11:GLN:HE21	45:HK:15:GLN:HE22	1.60	0.48
45:IA:413:MET:HE2	45:IA:413:MET:HA	1.94	0.48
45:IE:155:GLU:HA	45:IE:197:HIS:CE1	2.48	0.48
46:IF:31:ASP:HB3	46:IF:37:HIS:NE2	2.27	0.48
45:II:256:GLN:NE2	46:IL:397:TRP:HH2	2.12	0.48
46:IJ:28:HIS:C	46:IJ:43:GLN:HE21	2.22	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:IL:190:HIS:CD2	46:IL:414:ASN:HD22	2.32	0.48
45:IM:227:LEU:O	45:IM:231:ILE:HG12	2.14	0.48
46:IN:11:GLN:NE2	49:IN:501:GDP:O1A	2.47	0.48
45:JC:212:ILE:HD11	45:JC:300:ASN:HA	1.95	0.48
46:JF:121:ARG:NH1	46:JF:158:GLU:OE2	2.47	0.48
45:JI:115:VAL:HG11	45:JI:152:LEU:HD23	1.96	0.48
45:JI:178:SER:HB3	46:JJ:347:ASN:HD21	1.77	0.48
46:KB:11:GLN:HG2	46:KB:15:GLN:NE2	2.28	0.48
46:KB:316:LEU:HB3	46:KB:366:THR:OG1	2.13	0.48
46:KD:210:ILE:N	46:KD:297:LYS:HZ1	2.11	0.48
46:KD:318:ARG:HH21	46:KD:358:PRO:HG3	1.78	0.48
45:KG:320:ARG:HD3	45:KG:360:PRO:HG3	1.95	0.48
45:KG:426:ALA:O	45:KG:430:LYS:HG3	2.13	0.48
46:KH:73:MET:HE3	46:KH:92:PHE:HB3	1.95	0.48
45:KM:1:MET:O	45:KM:1:MET:HG3	2.13	0.48
45:LG:217:LEU:HB3	45:LG:219:ILE:HG13	1.95	0.48
45:LI:274:PRO:HB2	45:LI:276:ILE:HG12	1.95	0.48
46:LJ:418:LEU:HD12	46:LJ:421:GLU:OE2	2.13	0.48
45:LK:170:THR:O	45:LK:204:LEU:HB2	2.13	0.48
45:LK:417:GLU:OE2	45:LK:417:GLU:N	2.46	0.48
46:LN:186:THR:HG23	46:LN:187:LEU:HD12	1.94	0.48
46:MB:276:ARG:HA	46:MB:279:GLN:NE2	2.27	0.48
46:MD:3:GLU:HG3	46:MD:62:ARG:NH1	2.28	0.48
46:MD:31:ASP:OD2	46:MD:34:GLY:N	2.46	0.48
45:ME:9:VAL:HG12	45:ME:68:LEU:HB2	1.95	0.48
46:MJ:405:GLU:HA	46:MJ:408:PHE:HD2	1.78	0.48
45:MK:104:ALA:HB2	45:MK:413:MET:HE2	1.96	0.48
46:MN:66:MET:SD	46:MN:147:MET:HE2	2.53	0.48
45:NA:10:GLY:O	45:NA:14:ILE:HG12	2.13	0.48
45:NC:183:GLU:N	45:NC:184:PRO:HD2	2.27	0.48
45:NC:225:THR:O	45:NC:229:ARG:HG3	2.14	0.48
45:NE:33:ASP:HA	45:NE:85:GLN:HB2	1.94	0.48
45:NG:326:LYS:HE2	46:NJ:219:THR:HG22	1.94	0.48
46:NH:139:LEU:HD22	46:NH:170:VAL:HG12	1.95	0.48
46:NH:309:ARG:NH1	46:NH:339:SER:O	2.46	0.48
45:NI:68:LEU:HD13	45:NI:93:ILE:HB	1.96	0.48
45:NI:140:SER:HA	45:NI:171:ILE:HB	1.94	0.48
45:NM:283:HIS:O	45:NM:284:GLU:HG3	2.13	0.48
45:OE:180:ALA:HB3	45:OE:183:GLU:HB3	1.94	0.48
45:OK:205:ASP:OD1	45:OK:303:ALA:HA	2.13	0.48
45:OM:417:GLU:HA	45:OM:420:GLU:OE2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PA:174:SER:HB3	45:PA:207:GLU:HG2	1.94	0.48
45:PA:356:ASN:OD1	45:PA:357:TYR:N	2.45	0.48
46:PH:139:LEU:HD12	46:PH:170:VAL:HG12	1.96	0.48
45:PK:10:GLY:O	45:PK:14:ILE:HG12	2.13	0.48
45:PK:67:PHE:HB2	45:PK:92:LEU:HD13	1.94	0.48
46:PL:6:HIS:O	46:PL:63:ALA:HA	2.13	0.48
45:PM:222:PRO:O	46:PN:324:LYS:HD3	2.12	0.48
45:PM:340:THR:HG23	45:PM:341:ILE:HG13	1.94	0.48
45:QA:183:GLU:N	45:QA:184:PRO:HD2	2.27	0.48
46:QB:21:TRP:CH2	46:QB:50:TYR:HB3	2.48	0.48
45:QC:324:VAL:HG12	45:QC:326:LYS:HG2	1.95	0.48
45:QE:88:HIS:HA	45:RE:280:LYS:HE3	1.96	0.48
46:QF:201:VAL:HG13	46:QF:301:CYS:SG	2.54	0.48
45:QG:136:LEU:HD22	45:QG:169:PHE:HE2	1.78	0.48
45:QG:207:GLU:OE1	45:QG:207:GLU:N	2.34	0.48
46:QH:164:MET:O	46:QH:197:ASP:HB2	2.13	0.48
46:QH:171:PRO:HB2	46:QH:181:GLU:OE2	2.13	0.48
45:QK:188:ILE:HG23	45:QK:425:LEU:HD11	1.94	0.48
45:QM:36:MET:HE3	45:QM:37:PRO:HD2	1.96	0.48
45:RA:206:ASN:OD1	47:RA:501:GTP:N2	2.43	0.48
45:RA:331:SER:O	45:RA:335:ILE:HG12	2.14	0.48
46:RB:238:CYS:SG	46:RB:239:CYS:N	2.87	0.48
45:RC:284:GLU:N	45:RC:284:GLU:OE2	2.46	0.48
46:RD:262:ARG:HH21	46:RD:418:LEU:HA	1.77	0.48
45:RI:402:ARG:HG3	45:RI:405:VAL:HG11	1.96	0.48
45:RK:220:GLU:O	45:RK:221:ARG:NE	2.45	0.48
46:RL:331:LEU:HD11	45:RM:177:VAL:HA	1.94	0.48
46:SB:164:MET:HB2	46:SB:197:ASP:H	1.79	0.48
45:SE:414:GLU:CD	45:SE:416:GLY:H	2.22	0.48
45:SG:257:THR:HA	46:SH:397:TRP:CZ2	2.48	0.48
46:SH:46:ARG:HH22	45:SI:73:THR:HA	1.78	0.48
46:SJ:309:ARG:NH1	46:SJ:426:GLN:O	2.46	0.48
45:SM:288:VAL:HA	45:SM:291:ILE:HG12	1.95	0.48
46:SN:6:HIS:O	46:SN:63:ALA:HA	2.13	0.48
46:TB:244:GLY:HA3	46:TB:354:CYS:HA	1.94	0.48
45:TC:414:GLU:OE1	45:TC:416:GLY:N	2.33	0.48
45:TG:343:PHE:HZ	45:TG:351:PHE:CE1	2.32	0.48
46:TJ:3:GLU:OE2	46:TJ:49:VAL:HA	2.13	0.48
46:TJ:267:MET:HB2	46:TJ:299:MET:HE2	1.95	0.48
45:TK:426:ALA:HB1	45:TK:430:LYS:HZ3	1.77	0.48
46:TL:21:TRP:CZ2	46:TL:63:ALA:HB2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TM:220:GLU:O	45:TM:221:ARG:NH1	2.46	0.48
46:TN:42:LEU:HA	46:TN:45:GLU:HG3	1.94	0.48
46:UB:421:GLU:HA	46:UB:424:GLN:OE1	2.13	0.48
46:UD:3:GLU:OE1	46:UD:127:CYS:HB3	2.13	0.48
46:UH:117:LEU:HA	46:UH:120:VAL:HG22	1.95	0.48
46:UN:31:ASP:OD2	46:UN:37:HIS:ND1	2.46	0.48
46:UN:290:THR:HA	46:UN:293:MET:HG2	1.94	0.48
45:VG:118:CYS:O	45:VG:122:ILE:HG12	2.12	0.48
45:VG:136:LEU:HD22	45:VG:169:PHE:HE2	1.78	0.48
45:VG:164:LYS:O	45:VG:166:LYS:NZ	2.46	0.48
46:VJ:49:VAL:HG11	46:VJ:241:ARG:HG2	1.95	0.48
46:VJ:285:THR:HB	46:VJ:287:PRO:HD2	1.95	0.48
46:VJ:341:PHE:HB3	46:VJ:348:ASN:HD21	1.79	0.48
45:VK:207:GLU:OE1	45:VK:304:LYS:NZ	2.39	0.48
46:VL:217:LEU:HD11	46:VL:220:PRO:HB3	1.94	0.48
46:VN:55:THR:HG23	46:WN:283:ALA:HA	1.94	0.48
45:WC:74:VAL:O	45:WC:78:VAL:HG23	2.14	0.48
46:WD:222:TYR:HA	46:WD:225:LEU:HD12	1.94	0.48
45:WG:324:VAL:HG12	45:WG:326:LYS:HG2	1.96	0.48
45:WI:80:THR:O	45:WI:84:ARG:NH2	2.46	0.48
46:WJ:418:LEU:O	46:WJ:422:TYR:HB2	2.14	0.48
45:CE:75:ILE:O	45:CE:79:ARG:HG2	2.13	0.48
3:0C:65:VAL:HG13	3:0C:66:THR:HG23	1.95	0.48
4:0D:177:THR:HG22	46:EB:48:ASN:OD1	2.13	0.48
7:0G:163:ARG:HA	45:KM:245:ASP:HB3	1.95	0.48
12:0T:236:THR:OG1	12:0T:238:GLU:OE1	2.30	0.48
16:1B:334:ARG:HH11	16:1B:337:SER:HB2	1.79	0.48
16:1B:424:THR:O	16:1B:427:SER:OG	2.32	0.48
8:1H:284:ARG:HD2	8:1H:285:ARG:NH1	2.28	0.48
21:1L:757:TYR:CE2	45:BC:221:ARG:HG3	2.47	0.48
22:1M:288:LEU:O	22:1M:290:GLU:N	2.46	0.48
24:1P:101:ARG:HE	24:1P:104:LYS:NZ	2.11	0.48
25:1R:387:ASP:HB3	25:1R:390:ASP:HB2	1.96	0.48
25:1R:456:SER:O	46:FD:276:ARG:NE	2.45	0.48
11:1S:127:ARG:HE	11:1S:220:ASN:HB3	1.79	0.48
12:1T:269:LYS:HD3	13:1U:304:TRP:CZ2	2.49	0.48
26:1W:91:GLU:O	26:1W:94:GLU:HG3	2.13	0.48
27:2C:11:GLN:O	27:2C:15:ILE:HG12	2.13	0.48
28:2F:60:PHE:HZ	46:GF:87:PRO:HB3	1.78	0.48
31:2I:46:TYR:HE1	46:FH:126:GLY:HA2	1.77	0.48
31:2I:51:ALA:O	46:GH:306:ARG:NH1	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:2L:632:LYS:HE3	21:2L:706:THR:HG22	1.95	0.48
22:2M:76:PHE:CD2	22:2M:82:ARG:HA	2.48	0.48
23:2O:139:ASP:HA	23:2O:141:LYS:NZ	2.29	0.48
23:2O:353:ASP:HA	23:2O:356:ARG:HG2	1.94	0.48
24:2P:417:ILE:HD12	24:2P:420:ARG:HH22	1.79	0.48
25:2R:73:ASP:OD1	25:2R:76:ARG:NH2	2.46	0.48
25:2R:158:LEU:HG	25:2R:166:TYR:HE1	1.77	0.48
25:2R:463:PHE:CD2	25:2R:464:LEU:HG	2.47	0.48
12:2T:92:ASP:HB3	12:2T:95:GLU:OE1	2.14	0.48
13:2U:7:ILE:HG22	13:2U:602:TRP:CD1	2.48	0.48
5:3E:33:GLN:NE2	5:3E:151:CYS:SG	2.85	0.48
5:3E:129:HIS:HB3	5:3E:132:ILE:HB	1.93	0.48
25:3R:247:SER:HA	45:BK:58:ALA:HB2	1.95	0.48
11:3S:178:LEU:HD21	11:3S:193:THR:HG21	1.95	0.48
14:3V:110:GLU:HA	14:3V:112:ARG:NH1	2.28	0.48
27:4C:15:ILE:HD12	27:4C:70:ASP:OD2	2.13	0.48
15:4X:43:GLU:H	15:4X:43:GLU:CD	2.21	0.48
15:4X:45:GLN:O	15:4X:49:ILE:HG12	2.12	0.48
15:4X:109:GLN:O	15:4X:113:LEU:HD23	2.13	0.48
15:4X:111:ARG:O	15:4X:114:GLU:HG3	2.13	0.48
36:5B:59:TYR:HD2	46:KF:389:PHE:CE1	2.31	0.48
37:5E:209:ARG:HH12	45:LC:264:ARG:NH1	2.12	0.48
37:5F:110:ARG:HE	37:5F:112:ALA:H	1.60	0.48
37:5G:157:ARG:HH12	46:NL:35:THR:HG22	1.78	0.48
40:6G:270:THR:O	40:6G:271:TYR:CD1	2.66	0.48
10:6Q:102:ARG:CZ	45:AM:430:LYS:NZ	2.76	0.48
10:6Q:103:PHE:CG	10:6Q:139:PHE:HE2	2.31	0.48
46:AB:12:CYS:O	46:AB:16:ILE:HG12	2.14	0.48
46:AB:233:MET:O	46:AB:236:VAL:HG12	2.13	0.48
46:AD:156:ARG:NH1	46:AD:162:ARG:O	2.46	0.48
46:AF:99:ASN:HA	46:AF:142:GLY:H	1.77	0.48
46:AF:328:GLU:OE2	46:AF:329:GLN:HG2	2.12	0.48
45:AG:345:ASP:OD1	45:AG:346:TRP:N	2.46	0.48
46:AJ:272:PRO:HG3	46:AJ:284:LEU:HD11	1.95	0.48
46:AJ:398:TYR:HB3	46:AJ:403:MET:HE3	1.94	0.48
45:AM:145:THR:OG1	47:AM:501:GTP:O1B	2.32	0.48
45:AM:293:ASN:O	45:AM:297:GLU:HG2	2.13	0.48
46:BB:285:THR:HB	46:BB:287:PRO:HD2	1.95	0.48
45:BC:272:TYR:HD2	45:BC:275:ILE:HD11	1.78	0.48
45:BE:201:ALA:HB3	45:BE:267:PHE:CD1	2.49	0.48
45:BE:242:LEU:HD11	45:BE:252:ILE:HG13	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BK:501:GTP:O2G	46:BL:252:LYS:NZ	2.40	0.48
46:BL:174:LYS:HB2	46:BL:205:GLU:HG2	1.94	0.48
46:BN:51:TYR:HE2	46:BN:61:PRO:HG3	1.78	0.48
46:CB:105:HIS:CE1	46:CB:150:LEU:HD13	2.48	0.48
46:CB:376:GLU:OE2	46:CB:379:LYS:NZ	2.40	0.48
46:CD:178:THR:HG22	46:CD:180:VAL:H	1.79	0.48
46:CF:167:PHE:CD2	46:CF:233:MET:HE3	2.47	0.48
46:CN:316:LEU:HG	46:CN:352:SER:HB2	1.94	0.48
46:DD:73:MET:HB2	46:DD:90:PHE:CE1	2.49	0.48
46:DF:253:LEU:HD12	46:DF:257:LEU:HD13	1.95	0.48
45:DI:31:GLN:HG2	45:DI:35:GLN:O	2.13	0.48
46:DJ:309:ARG:NH1	46:DJ:426:GLN:O	2.38	0.48
45:DK:269:LEU:HD12	45:DK:301:MET:HE2	1.95	0.48
46:ED:173:PRO:HG2	46:ED:380:ARG:HE	1.78	0.48
45:EE:328:VAL:O	45:EE:332:ILE:HG12	2.14	0.48
46:EH:288:GLU:O	46:EH:291:GLN:HG3	2.13	0.48
46:EL:101:TRP:HB2	46:EL:184:ASN:HB3	1.95	0.48
45:EM:328:VAL:HG11	45:EM:353:VAL:HG21	1.95	0.48
46:FB:1:MET:O	46:FB:2:ARG:HG2	2.13	0.48
46:FD:121:ARG:HD3	46:FD:121:ARG:C	2.39	0.48
45:FE:377:MET:HE1	45:FE:379:SER:HB3	1.95	0.48
45:FG:97:GLU:HG2	45:FG:105:ARG:HH22	1.79	0.48
46:FH:317:PHE:HE2	46:FH:326:VAL:HG13	1.77	0.48
45:FI:181:VAL:HG12	46:FJ:347:ASN:O	2.12	0.48
46:FL:19:LYS:O	46:FL:22:GLU:HG3	2.13	0.48
45:GC:98:ASP:OD1	45:GC:99:ALA:N	2.46	0.48
46:GD:384:GLN:O	46:GD:388:MET:HG2	2.14	0.48
46:GF:64:ILE:HD13	46:GF:119:VAL:HG13	1.95	0.48
45:GG:210:TYR:CE2	45:GG:227:LEU:HD11	2.49	0.48
45:GK:396:ASP:OD1	45:GK:397:LEU:N	2.46	0.48
45:GM:221:ARG:NH2	46:GN:321:MET:HB2	2.28	0.48
45:HC:208:ALA:O	45:HC:212:ILE:HG12	2.13	0.48
45:HC:223:THR:HG23	45:HC:225:THR:H	1.79	0.48
46:HD:313:ALA:HB1	46:HD:367:PHE:HE1	1.78	0.48
45:HE:147:SER:HB2	45:HE:190:SER:HB3	1.94	0.48
45:HE:208:ALA:O	45:HE:212:ILE:HG12	2.13	0.48
46:HH:67:ASP:OD1	46:HH:73:MET:HE2	2.13	0.48
46:HL:390:ARG:O	46:HL:392:LYS:NZ	2.36	0.48
46:HN:229:VAL:O	46:HN:233:MET:HG3	2.14	0.48
45:IA:54:SER:OG	45:IA:64:ARG:NH2	2.45	0.48
46:IB:65:LEU:HB3	46:IB:73:MET:HE1	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:IB:285:THR:O	46:IB:288:GLU:HG3	2.13	0.48
45:IC:55:GLU:HG3	45:IC:57:GLY:H	1.79	0.48
46:ID:196:ALA:HB3	46:ID:264:HIS:HE1	1.77	0.48
46:IF:178:THR:HG22	46:IF:180:VAL:H	1.77	0.48
46:IH:65:LEU:HD22	46:IH:90:PHE:HE1	1.78	0.48
45:IK:399:TYR:OH	45:IK:402:ARG:NH1	2.47	0.48
46:JB:6:HIS:HE1	46:JB:8:GLN:HB3	1.78	0.48
46:JB:299:MET:HG3	46:JB:301:CYS:N	2.22	0.48
45:JC:142:GLY:HA3	45:JC:183:GLU:HG3	1.95	0.48
45:JG:177:VAL:HG13	46:JH:327:ASP:OD2	2.13	0.48
45:JI:89:PRO:HD3	45:KI:283:HIS:HD1	1.78	0.48
46:JJ:218:THR:HG23	46:JJ:219:THR:HG23	1.96	0.48
45:JK:256:GLN:OE1	45:JK:257:THR:HG23	2.13	0.48
45:JK:387:VAL:HA	45:JK:390:ARG:NE	2.29	0.48
46:JL:67:ASP:O	46:JL:92:PHE:HA	2.13	0.48
46:JL:322:SER:O	46:JL:325:GLU:HG2	2.13	0.48
46:KD:101:TRP:HB2	46:KD:184:ASN:HB3	1.95	0.48
45:KE:315:CYS:HB2	45:KE:377:MET:HE3	1.95	0.48
46:KF:54:ALA:HB3	46:KF:58:ARG:HG2	1.94	0.48
45:KI:167:LEU:HG	45:KI:200:VAL:HB	1.96	0.48
46:KL:173:PRO:HG2	46:KL:380:ARG:HE	1.79	0.48
45:KM:34:GLY:HA3	45:KM:60:LYS:HE3	1.96	0.48
45:KM:209:ILE:HG22	45:KM:302:MET:HG3	1.93	0.48
46:KN:150:LEU:O	46:KN:154:LYS:HG2	2.13	0.48
46:LD:268:ILE:HG22	46:LD:368:VAL:HG22	1.95	0.48
46:LJ:1:MET:N	46:LJ:1:MET:HE2	2.28	0.48
46:LL:344:TRP:CE3	46:LL:345:ILE:HG23	2.48	0.48
46:LN:15:GLN:HB3	46:LN:226:ASN:HD21	1.78	0.48
46:LN:21:TRP:CZ3	46:LN:61:PRO:HB3	2.48	0.48
46:MB:276:ARG:HD2	46:MB:279:GLN:NE2	2.29	0.48
46:MH:154:LYS:HE2	46:MH:154:LYS:HB2	1.68	0.48
45:MI:73:THR:HA	46:MJ:46:ARG:NH2	2.29	0.48
45:MI:395:PHE:CD1	45:MI:422:ARG:HD3	2.49	0.48
46:MN:139:LEU:HD13	46:MN:168:SER:HB3	1.94	0.48
46:NB:19:LYS:O	46:NB:23:VAL:HG23	2.13	0.48
46:NB:64:ILE:HD11	46:NB:123:GLU:HG3	1.94	0.48
46:NF:257:LEU:HD11	46:NF:314:SER:HB2	1.96	0.48
45:NG:284:GLU:CD	45:NG:286:LEU:H	2.22	0.48
45:NI:105:ARG:HH12	46:NJ:251:ARG:HD3	1.79	0.48
46:NJ:190:HIS:CD2	46:NJ:414:ASN:HD22	2.32	0.48
46:NL:268:ILE:HG22	46:NL:368:VAL:HG22	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OA:9:VAL:HG22	45:OA:68:LEU:HB2	1.95	0.48
46:OB:201:VAL:HG22	46:OB:266:PHE:O	2.13	0.48
46:OB:372:THR:HA	46:OB:422:TYR:CE2	2.49	0.48
45:OE:6:SER:OG	45:OE:64:ARG:O	2.28	0.48
46:ON:207:LEU:CD1	46:ON:228:LEU:HD11	2.43	0.48
45:PC:79:ARG:NH2	45:PC:92:LEU:O	2.46	0.48
45:PE:109:THR:HG22	45:PE:110:ILE:HG23	1.95	0.48
45:PE:183:GLU:N	45:PE:184:PRO:HD2	2.28	0.48
46:PF:417:ASP:O	46:PF:420:SER:N	2.47	0.48
45:PI:340:THR:HG23	45:PI:341:ILE:HG13	1.96	0.48
46:PJ:130:LEU:HB3	46:PJ:162:ARG:HE	1.78	0.48
45:PM:141:VAL:HG22	45:PM:187:SER:HA	1.94	0.48
46:QB:74:ASP:HA	46:QB:77:ARG:HH11	1.78	0.48
45:QC:12:GLY:HA2	45:QC:15:GLN:HE21	1.78	0.48
46:QD:116:VAL:HA	46:QD:119:VAL:HG12	1.95	0.48
46:QD:284:LEU:HD21	46:QD:362:LYS:HE3	1.95	0.48
46:QD:379:LYS:HD3	46:QD:419:VAL:HG11	1.95	0.48
46:QJ:102:ALA:HB2	46:QJ:403:MET:HE2	1.94	0.48
46:RB:334:GLN:HA	46:RB:341:PHE:HE2	1.78	0.48
45:RI:209:ILE:HD12	45:RI:227:LEU:HB3	1.96	0.48
46:RL:2:ARG:HD2	45:RM:96:LYS:O	2.13	0.48
46:RL:174:LYS:HB2	46:RL:205:GLU:OE2	2.13	0.48
45:SA:109:THR:HG22	45:SA:110:ILE:HG23	1.94	0.48
45:SA:271:SER:HA	45:SA:302:MET:HG2	1.95	0.48
46:SB:324:LYS:HZ1	45:SC:214:ARG:HG2	1.79	0.48
45:SC:192:HIS:HA	45:SC:195:LEU:HD23	1.95	0.48
45:SI:69:ASP:OD1	45:SI:70:LEU:N	2.46	0.48
45:SK:224:TYR:HA	45:SK:227:LEU:HD13	1.95	0.48
46:SL:346:PRO:HD2	45:SM:398:MET:HE1	1.94	0.48
45:SM:408:TYR:HB3	45:SM:413:MET:SD	2.54	0.48
45:TA:151:SER:O	45:TA:155:GLU:HG3	2.13	0.48
46:TB:139:LEU:HD13	46:TB:168:SER:HB3	1.95	0.48
45:TC:187:SER:O	45:TC:191:THR:HG23	2.13	0.48
46:TF:66:MET:HE1	46:TF:151:LEU:HD21	1.95	0.48
46:TF:136:THR:HG22	46:TF:167:PHE:CD2	2.48	0.48
46:TF:273:LEU:O	46:TF:292:GLN:NE2	2.46	0.48
46:TF:288:GLU:O	46:TF:291:GLN:HG3	2.12	0.48
45:TG:408:TYR:HB3	45:TG:413:MET:HE3	1.95	0.48
46:TL:121:ARG:NH1	46:TL:122:LYS:HB3	2.29	0.48
45:TM:136:LEU:HD13	45:TM:167:LEU:HB2	1.95	0.48
45:TM:269:LEU:HD23	45:TM:379:SER:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TM:411:GLU:OE1	45:TM:411:GLU:N	2.47	0.48
46:UF:274:THR:HG23	46:UF:279:GLN:NE2	2.28	0.48
45:UI:202:VAL:C	45:UI:203:MET:HE2	2.38	0.48
45:UK:171:ILE:HG23	45:UK:204:LEU:O	2.13	0.48
45:UM:387:VAL:HG12	45:UM:390:ARG:CZ	2.44	0.48
45:VA:222:PRO:HD2	46:VB:324:LYS:CE	2.42	0.48
45:VA:313:MET:HE1	45:VA:346:TRP:HH2	1.78	0.48
46:VF:330:MET:HE2	46:VF:330:MET:HA	1.95	0.48
46:VF:392:LYS:C	46:VF:395:LEU:HD23	2.38	0.48
46:VH:73:MET:SD	46:VH:92:PHE:HB3	2.53	0.48
46:VH:139:LEU:CD2	46:VH:168:SER:HB3	2.43	0.48
46:VH:213:ARG:HA	46:VH:216:LYS:NZ	2.28	0.48
45:VI:10:GLY:O	45:VI:14:ILE:HG12	2.14	0.48
45:VI:152:LEU:O	45:VI:156:ARG:HG2	2.14	0.48
45:VI:331:SER:O	45:VI:335:ILE:HG12	2.14	0.48
46:VJ:114:ASP:O	46:VJ:117:LEU:HG	2.13	0.48
46:VJ:290:THR:HA	46:VJ:293:MET:HG3	1.96	0.48
46:VL:6:HIS:O	46:VL:63:ALA:HA	2.13	0.48
46:VL:105:HIS:HD2	46:VL:146:GLY:O	1.97	0.48
46:VN:145:SER:HB2	46:VN:188:SER:HB3	1.95	0.48
46:VN:164:MET:HE1	46:VN:166:THR:HG23	1.95	0.48
45:WA:268:MET:HE3	45:WA:379:SER:C	2.39	0.48
45:WE:3:GLU:HB2	45:WE:129:CYS:SG	2.54	0.48
46:WF:186:THR:HA	46:WF:189:VAL:HG12	1.96	0.48
46:WF:290:THR:HA	46:WF:293:MET:HG3	1.96	0.48
45:WI:147:SER:OG	45:WI:190:SER:HB3	2.14	0.48
46:WL:345:ILE:O	46:WL:345:ILE:HG13	2.13	0.48
45:WM:265:ILE:HG22	45:WM:380:ASN:HD21	1.77	0.48
46:WN:58:ARG:NH1	46:WN:60:VAL:HB	2.28	0.48
45:DC:205:ASP:OD2	45:DC:303:ALA:HA	2.13	0.48
1:0A:71:TYR:HE2	46:AB:320:ARG:HB3	1.76	0.48
4:0D:179:LYS:C	4:0D:181:ILE:HD12	2.38	0.48
6:0F:51:THR:O	6:0F:54:ARG:N	2.45	0.48
6:0F:75:ARG:NH1	46:ED:357:PRO:HD2	2.28	0.48
7:0G:159:LYS:HB2	7:0G:161:LYS:NZ	2.28	0.48
10:0Q:36:ARG:HH11	11:0S:273:ILE:HG12	1.79	0.48
13:0U:378:ILE:HG22	13:0U:411:LEU:HD13	1.96	0.48
15:0X:97:GLN:O	15:0X:101:GLU:OE1	2.31	0.48
4:1D:172:PRO:HD3	45:FE:279:GLU:OE1	2.13	0.48
5:1E:13:ARG:NH2	5:1E:89:ARG:HB2	2.28	0.48
5:1E:136:GLN:O	5:1E:137:MET:HE2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:1F:58:LEU:HA	17:1F:61:LYS:NZ	2.29	0.48
8:1H:108:GLU:HA	8:1H:111:GLU:HG2	1.95	0.48
18:1I:89:THR:HG21	46:JD:320:ARG:NH2	2.28	0.48
18:1I:124:GLU:O	18:1I:128:ILE:HG12	2.13	0.48
18:1I:217:ILE:O	18:1I:221:THR:OG1	2.22	0.48
19:1J:139:LYS:NZ	45:IE:372:MET:SD	2.82	0.48
21:1L:26:THR:OG1	21:1L:27:VAL:N	2.45	0.48
21:1L:854:ASP:O	21:1L:858:LEU:HD23	2.13	0.48
22:1M:25:LEU:HD21	22:1M:36:MET:HE2	1.95	0.48
9:1N:211:HIS:O	9:1N:215:CYS:N	2.44	0.48
9:1N:437:THR:O	9:1N:441:ILE:HD12	2.14	0.48
24:1P:121:ARG:O	24:1P:124:GLU:HG3	2.13	0.48
26:1W:208:LEU:HD12	27:3C:186:HIS:HB2	1.95	0.48
26:1W:225:ARG:O	26:1W:229:LYS:HG2	2.12	0.48
15:1X:24:ALA:HB1	15:1X:27:PHE:CZ	2.48	0.48
16:2B:55:LYS:O	16:2B:58:VAL:HG12	2.14	0.48
28:2F:87:ASN:HB3	28:2F:90:ASP:OD2	2.13	0.48
21:2L:594:GLN:HB2	25:3R:109:SER:HB2	1.94	0.48
21:2L:660:LYS:HB3	21:2L:699:TYR:CE1	2.49	0.48
21:2L:870:ARG:HG3	46:CJ:357:PRO:HG2	1.95	0.48
23:2O:130:GLN:NE2	23:2O:134:ASN:HD22	2.11	0.48
23:2O:180:MET:O	23:2O:183:ILE:HB	2.12	0.48
23:2O:440:GLN:HA	23:2O:443:ARG:NH1	2.27	0.48
25:2R:256:ARG:HG3	45:CG:42:ILE:HD12	1.94	0.48
25:2R:282:ILE:HG13	25:2R:299:LEU:HD12	1.96	0.48
13:2U:117:LEU:HB3	13:2U:132:TRP:HB2	1.94	0.48
13:2U:487:LEU:HB3	13:2U:517:TRP:CE3	2.49	0.48
26:2W:258:ASP:O	26:2W:262:GLU:OE1	2.32	0.48
27:3C:251:LEU:HD21	27:3C:267:LYS:HZ1	1.78	0.48
12:3T:193:LYS:HA	12:3T:193:LYS:HE2	1.94	0.48
13:3U:365:CYS:HB3	13:3U:381:TRP:CE2	2.49	0.48
14:3V:162:GLY:C	14:3V:163:LYS:HD3	2.39	0.48
14:3V:202:GLN:O	14:3V:205:VAL:HG22	2.13	0.48
15:3X:49:ILE:HD11	45:MM:282:TYR:CG	2.49	0.48
15:3X:50:GLU:HA	15:3X:53:ILE:HG12	1.96	0.48
36:5A:22:TYR:HB2	36:5A:59:TYR:CZ	2.48	0.48
10:5Q:47:LEU:HD22	10:5Q:162:ILE:HD11	1.95	0.48
35:5S:158:MET:O	35:5S:162:LEU:HB2	2.14	0.48
39:6F:65:SER:O	46:JF:276:ARG:NH2	2.47	0.48
34:6R:335:VAL:HG22	34:6R:368:GLN:HE22	1.79	0.48
34:7R:133:LYS:NZ	34:7R:141:GLN:HB2	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:7R:335:VAL:HG22	34:7R:368:GLN:HE22	1.79	0.48
45:AA:76:ASP:OD2	46:AB:46:ARG:NH2	2.47	0.48
46:AB:272:PRO:HB2	46:AB:282:ARG:HH21	1.77	0.48
46:AD:116:VAL:HA	46:AD:119:VAL:HG12	1.96	0.48
46:AH:273:LEU:H	46:AH:292:GLN:HE22	1.61	0.48
45:AM:183:GLU:N	45:AM:184:PRO:HD2	2.29	0.48
45:AM:244:PHE:HB2	45:AM:356:ASN:HD21	1.79	0.48
46:AN:152:ILE:HG23	46:AN:164:MET:HE2	1.96	0.48
45:BA:224:TYR:HA	45:BA:227:LEU:HD12	1.95	0.48
45:BC:152:LEU:O	45:BC:155:GLU:HG3	2.14	0.48
45:BI:172:TYR:HD1	45:BI:173:PRO:HD2	1.78	0.48
46:BJ:164:MET:HA	46:BJ:164:MET:HE2	1.95	0.48
46:BN:237:THR:HG22	46:BN:250:LEU:HD11	1.95	0.48
45:CA:88:HIS:ND1	45:CA:90:GLU:HG2	2.28	0.48
46:CD:10:GLY:O	46:CD:14:ASN:ND2	2.47	0.48
45:CI:352:LYS:HE2	46:CJ:178:THR:HA	1.95	0.48
46:CJ:86:ARG:NH2	46:CJ:87:PRO:HD2	2.28	0.48
46:CL:350:LYS:NZ	45:CM:179:THR:HG22	2.29	0.48
46:CL:396:HIS:CD2	46:CL:397:TRP:CD1	3.02	0.48
45:DE:11:GLN:NE2	47:DE:501:GTP:O1A	2.46	0.48
46:DF:201:VAL:HG23	46:DF:301:CYS:SG	2.53	0.48
46:DH:209:ASP:HB3	46:DH:213:ARG:HH12	1.77	0.48
46:DH:318:ARG:HH11	46:DH:358:PRO:HG3	1.78	0.48
46:DL:249:ASP:OD1	46:DL:252:LYS:N	2.35	0.48
46:DL:250:LEU:HD13	46:DL:253:LEU:HD21	1.95	0.48
45:DM:51:THR:HG21	45:DM:243:ARG:HD3	1.96	0.48
46:DN:404:ASP:OD2	46:DN:406:MET:HE2	2.13	0.48
45:EI:73:THR:O	45:EI:77:GLU:HG2	2.14	0.48
46:EL:67:ASP:OD1	46:EL:68:LEU:N	2.45	0.48
46:EL:325:GLU:HG2	45:EM:221:ARG:HG2	1.96	0.48
46:FB:289:LEU:HB3	46:FB:365:VAL:HG21	1.95	0.48
46:FD:121:ARG:O	46:FD:125:GLU:OE1	2.32	0.48
46:FD:409:THR:O	46:FD:412:GLU:HG3	2.14	0.48
45:FE:254:GLU:HG2	45:FE:352:LYS:HZ1	1.78	0.48
45:FG:141:VAL:HG12	45:FG:171:ILE:O	2.13	0.48
45:FI:272:TYR:HD2	45:FI:275:ILE:HD11	1.78	0.48
45:FM:52:PHE:HB2	45:FM:243:ARG:HH12	1.78	0.48
45:GA:288:VAL:HA	45:GA:291:ILE:HG12	1.96	0.48
45:GC:21:TRP:CH2	45:GC:63:PRO:HB3	2.48	0.48
45:GC:407:TRP:HH2	46:GD:254:ALA:HB1	1.77	0.48
46:GD:294:PHE:CE2	46:GD:333:VAL:HG11	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GG:181:VAL:HG23	45:GG:182:VAL:HG13	1.94	0.48
45:GG:332:ILE:HD12	45:GG:351:PHE:CE2	2.48	0.48
46:GH:230:SER:HA	46:GH:233:MET:HG2	1.95	0.48
46:GH:233:MET:O	46:GH:236:VAL:HG12	2.14	0.48
46:GH:267:MET:HE3	46:GH:374:ILE:HG22	1.96	0.48
45:GI:68:LEU:HD21	45:GI:118:CYS:SG	2.54	0.48
46:GJ:290:THR:HA	46:GJ:293:MET:HG2	1.96	0.48
45:GK:276:ILE:HD13	45:GK:281:ALA:HA	1.96	0.48
46:GL:299:MET:N	46:GL:299:MET:SD	2.87	0.48
46:GN:122:LYS:C	46:GN:122:LYS:HD2	2.39	0.48
45:HA:377:MET:HE1	45:HA:379:SER:HB2	1.94	0.48
46:HB:294:PHE:CE2	46:HB:333:VAL:HG11	2.48	0.48
46:HJ:3:GLU:OE1	46:HJ:3:GLU:N	2.45	0.48
45:HK:256:GLN:HB2	45:HK:260:VAL:HB	1.95	0.48
46:HL:58:ARG:CZ	46:IL:281:TYR:HE1	2.26	0.48
45:IA:170:THR:O	45:IA:204:LEU:HB2	2.13	0.48
45:IA:210:TYR:CE2	46:IB:324:LYS:HB2	2.49	0.48
45:IE:175:PRO:HG3	45:IE:390:ARG:CZ	2.43	0.48
45:IG:8:HIS:HB2	45:IG:67:PHE:HD2	1.78	0.48
45:IG:72:PRO:HD2	46:IH:2:ARG:NH2	2.29	0.48
45:IG:395:PHE:HZ	45:IG:418:PHE:HB3	1.77	0.48
46:IH:42:LEU:HA	46:IH:45:GLU:HB2	1.95	0.48
45:II:90:GLU:OE1	45:II:121:ARG:HD3	2.13	0.48
45:IK:288:VAL:HA	45:IK:291:ILE:HG12	1.95	0.48
45:IK:407:TRP:HH2	46:IL:254:ALA:HB1	1.79	0.48
46:IL:316:LEU:HD23	46:IL:352:SER:HB2	1.95	0.48
45:JA:147:SER:HB2	45:JA:190:SER:HB2	1.96	0.48
46:JB:206:ALA:HA	46:JB:209:ASP:OD2	2.13	0.48
45:JC:422:ARG:NH1	45:JC:422:ARG:O	2.47	0.48
46:JH:375:GLN:HG3	46:JH:419:VAL:HG13	1.95	0.48
45:JI:345:ASP:OD2	45:JI:346:TRP:N	2.46	0.48
45:JM:36:MET:SD	45:JM:37:PRO:HD2	2.53	0.48
45:JM:109:THR:OG1	45:JM:411:GLU:OE2	2.29	0.48
45:JM:268:MET:HB2	45:JM:379:SER:O	2.13	0.48
46:JN:47:ILE:HD12	46:JN:59:TYR:CE2	2.48	0.48
45:KA:147:SER:HB2	45:KA:190:SER:OG	2.13	0.48
46:KB:121:ARG:NH2	46:KB:158:GLU:OE2	2.43	0.48
45:KE:262:TYR:HB2	45:KE:265:ILE:HG22	1.94	0.48
46:KF:101:TRP:CE3	46:KF:187:LEU:HD23	2.48	0.48
46:KJ:251:ARG:O	46:KJ:255:VAL:HG23	2.14	0.48
45:KK:42:ILE:HD12	45:KK:42:ILE:H	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LB:175:VAL:HG22	46:LB:205:GLU:OE2	2.13	0.48
46:LD:180:VAL:HG12	46:LD:180:VAL:O	2.14	0.48
45:LG:214:ARG:HH21	45:LG:215:ARG:NH2	2.11	0.48
45:LK:321:GLY:HA3	45:LK:372:MET:O	2.12	0.48
45:LM:239:THR:HG23	45:LM:243:ARG:HH21	1.77	0.48
45:MK:109:THR:HB	45:MK:110:ILE:HD12	1.96	0.48
46:ND:238:CYS:SG	46:ND:318:ARG:HD3	2.53	0.48
45:NE:7:ILE:HB	45:NE:137:VAL:HG12	1.93	0.48
45:NI:21:TRP:CZ2	45:NI:65:ALA:HB2	2.48	0.48
46:NN:135:ILE:HG13	46:NN:164:MET:HE1	1.96	0.48
45:OE:100:ALA:HA	46:OF:252:LYS:HE2	1.96	0.48
45:OG:2:ARG:NH2	45:OG:242:LEU:HA	2.29	0.48
45:OG:100:ALA:HA	46:OH:252:LYS:HG2	1.94	0.48
45:OG:183:GLU:N	45:OG:184:PRO:HD2	2.29	0.48
46:OJ:213:ARG:HD2	46:OJ:297:LYS:HE3	1.95	0.48
46:OJ:290:THR:HA	46:OJ:293:MET:HE2	1.95	0.48
46:ON:86:ARG:HG2	46:ON:89:ASN:OD1	2.14	0.48
46:ON:290:THR:HA	46:ON:293:MET:HE2	1.96	0.48
46:PD:63:ALA:O	46:PD:89:ASN:ND2	2.47	0.48
45:PE:33:ASP:O	45:PE:60:LYS:NZ	2.45	0.48
45:PE:174:SER:HB2	45:PE:177:VAL:O	2.13	0.48
45:PE:231:ILE:O	45:PE:235:ILE:HG12	2.14	0.48
46:PF:19:LYS:HE2	46:PF:227:HIS:HB2	1.94	0.48
45:PG:89:PRO:HD2	45:QG:280:LYS:NZ	2.28	0.48
45:PM:222:PRO:O	46:PN:322:SER:HB2	2.12	0.48
46:PN:109:GLY:O	46:PN:113:ILE:HG23	2.13	0.48
45:QE:271:SER:OG	45:QE:301:MET:HG2	2.13	0.48
46:QF:15:GLN:HG2	49:QF:501:GDP:O6	2.13	0.48
46:QF:165:GLU:OE1	46:QF:198:GLU:HG2	2.14	0.48
46:QF:287:PRO:O	46:QF:290:THR:HG22	2.14	0.48
45:QI:314:ALA:HB3	45:QI:380:ASN:HD21	1.79	0.48
45:QM:69:ASP:HB3	45:QM:75:ILE:HD11	1.96	0.48
45:QM:88:HIS:HB3	45:QM:91:GLN:HG2	1.96	0.48
45:RC:209:ILE:HD12	45:RC:227:LEU:HB3	1.96	0.48
45:RC:317:MET:HB3	45:RC:377:MET:SD	2.53	0.48
45:RE:141:VAL:HG11	45:RE:172:TYR:HD1	1.78	0.48
45:RG:90:GLU:HG2	45:RG:121:ARG:HH21	1.79	0.48
45:RM:88:HIS:ND1	45:RM:89:PRO:HD2	2.27	0.48
45:SA:167:LEU:HG	45:SA:200:VAL:HB	1.96	0.48
45:SC:428:LEU:O	45:SC:432:TYR:HD2	1.96	0.48
45:SE:419:SER:O	45:SE:423:GLU:HG2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SN:5:VAL:HG12	46:SN:62:ARG:HD3	1.95	0.48
45:TA:346:TRP:CD1	46:TB:391:ARG:HG3	2.49	0.48
45:TC:223:THR:HG23	45:TC:225:THR:H	1.79	0.48
45:TG:156:ARG:HG3	45:TG:156:ARG:NH1	2.27	0.48
45:TK:76:ASP:OD1	45:TK:79:ARG:NH2	2.45	0.48
46:TL:113:ILE:HD13	46:TL:150:LEU:HD22	1.96	0.48
45:UC:183:GLU:N	45:UC:184:PRO:HD2	2.28	0.48
45:UC:331:SER:O	45:UC:335:ILE:HG12	2.14	0.48
45:UI:2:ARG:HG3	45:UI:133:GLN:NE2	2.28	0.48
46:UJ:321:MET:CA	45:UK:221:ARG:HH22	2.19	0.48
45:UM:287:SER:O	45:UM:291:ILE:HG12	2.13	0.48
46:UN:268:ILE:HG22	46:UN:368:VAL:HG22	1.96	0.48
45:VA:350:GLY:HA2	46:VD:179:VAL:HG12	1.95	0.48
46:VB:97:ALA:HA	46:VB:103:LYS:HE3	1.95	0.48
46:VF:211:CYS:SG	46:VF:220:PRO:HB3	2.53	0.48
45:VI:414:GLU:OE1	45:VI:416:GLY:N	2.36	0.48
45:VK:167:LEU:HG	45:VK:200:VAL:HB	1.96	0.48
46:VL:103:LYS:O	46:VL:107:THR:OG1	2.32	0.48
46:VL:267:MET:HE2	46:VL:301:CYS:HB2	1.95	0.48
45:VM:69:ASP:O	45:VM:94:SER:HA	2.14	0.48
45:WC:108:TYR:CD2	45:WC:413:MET:HE1	2.48	0.48
45:WE:8:HIS:HB2	45:WE:67:PHE:HD1	1.78	0.48
45:WE:121:ARG:HA	45:WE:124:LYS:HG2	1.95	0.48
45:WG:101:ASN:HA	45:WG:144:GLY:H	1.78	0.48
45:WG:315:CYS:HB3	45:WG:377:MET:HE1	1.95	0.48
45:WG:329:ASN:HA	45:WG:332:ILE:HG22	1.95	0.48
45:WI:175:PRO:HG3	45:WI:390:ARG:CZ	2.43	0.48
46:WJ:239:CYS:SG	46:WJ:247:ASN:HA	2.54	0.48
46:WJ:304:ASP:HB3	46:WJ:307:HIS:CE1	2.49	0.48
46:WL:201:VAL:HG23	46:WL:301:CYS:SG	2.53	0.48
2:0B:94:ASN:ND2	2:0B:122:ILE:HG23	2.29	0.48
2:0B:212:SER:H	45:JI:47:ASP:H	1.60	0.48
4:0D:161:LYS:HG3	4:0D:162:VAL:H	1.78	0.48
9:0N:10:TYR:HD1	9:0N:16:ILE:HD13	1.79	0.48
9:0N:69:LYS:HG2	9:0N:130:VAL:HA	1.96	0.48
9:0N:155:SER:O	9:0N:169:GLN:NE2	2.45	0.48
11:0S:80:VAL:HG22	11:0S:82:GLU:HG3	1.96	0.48
12:0T:51:TYR:O	12:0T:55:LYS:HG2	2.14	0.48
13:0U:309:LYS:HE2	13:0U:309:LYS:HA	1.96	0.48
16:1B:214:LEU:HD23	16:1B:292:PHE:CZ	2.48	0.48
17:1F:158:ASN:O	17:1F:159:THR:OG1	2.30	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:1I:175:THR:OG1	18:1I:177:ASP:OD1	2.22	0.48
19:1J:317:VAL:HG11	45:IK:285:GLN:HB2	1.96	0.48
20:1K:166:ILE:HG23	20:1K:169:LYS:HE3	1.95	0.48
21:1L:50:PHE:HD1	21:1L:98:TYR:CD1	2.31	0.48
22:1M:144:TYR:O	22:1M:148:VAL:HG23	2.14	0.48
24:1P:97:ILE:O	24:1P:101:ARG:HG2	2.13	0.48
10:1Q:178:PRO:C	10:1Q:182:LYS:HZ2	2.21	0.48
11:1S:284:GLY:O	11:1S:287:ILE:HG22	2.14	0.48
1:2A:154:ASN:HD21	34:5R:82:GLN:HG3	1.78	0.48
5:2E:107:PHE:CE2	5:2E:120:LEU:HD23	2.49	0.48
5:2E:129:HIS:HD2	5:2E:132:ILE:HG13	1.79	0.48
29:2G:94:ILE:HG13	29:2G:95:TYR:H	1.78	0.48
20:2K:339:GLU:O	20:2K:343:GLU:HG2	2.13	0.48
22:2M:181:VAL:HA	22:2M:184:GLU:HG2	1.96	0.48
23:2O:203:GLN:HG2	23:2O:207:HIS:CE1	2.44	0.48
23:2O:218:GLU:HA	23:2O:221:ARG:NE	2.29	0.48
23:2O:260:LEU:HB3	45:VG:282:TYR:CE2	2.49	0.48
23:2O:471:LEU:HD23	23:2O:488:GLU:HG3	1.96	0.48
10:2Q:90:GLU:HG3	10:2Q:155:GLN:HB3	1.95	0.48
25:2R:235:PHE:CE1	46:CH:216:LYS:HG3	2.48	0.48
14:2V:24:ARG:NH2	45:ME:430:LYS:HA	2.28	0.48
1:3A:126:LYS:HD2	1:3A:126:LYS:H	1.79	0.48
31:3I:290:MET:HE2	45:GG:283:HIS:HE1	1.79	0.48
25:3R:446:LEU:H	25:3R:446:LEU:HD23	1.78	0.48
25:3R:454:ARG:NH2	46:FL:218:THR:HB	2.27	0.48
12:3T:285:ARG:HH22	13:3U:52:ARG:H	1.60	0.48
14:3V:122:LYS:HE2	46:LD:390:ARG:NH2	2.28	0.48
34:4R:566:PHE:HD1	34:4R:589:MET:HG2	1.77	0.48
15:4X:60:GLU:OE1	15:4X:64:ARG:NH2	2.47	0.48
39:6F:19:SER:O	39:6F:37:GLN:NE2	2.43	0.48
41:6H:257:THR:OG1	46:FF:355:ASP:OD2	2.31	0.48
10:6Q:94:LEU:CD1	10:6Q:100:ARG:HH22	2.25	0.48
34:6R:445:SER:HB2	34:6R:454:MET:HE3	1.95	0.48
45:AA:328:VAL:O	45:AA:332:ILE:HG12	2.14	0.48
46:AB:248:SER:HA	46:AB:252:LYS:HD2	1.94	0.48
45:AG:3:GLU:OE2	45:AG:131:GLY:N	2.45	0.48
46:AJ:161:ASP:OD1	46:AJ:162:ARG:NH1	2.47	0.48
46:AJ:282:ARG:HH22	46:MJ:86:ARG:HD2	1.79	0.48
45:AM:10:GLY:O	45:AM:14:ILE:HG12	2.13	0.48
45:BA:141:VAL:HG11	45:BA:172:TYR:HD1	1.77	0.48
45:BA:225:THR:OG1	45:BA:229:ARG:NH2	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BA:349:THR:OG1	46:BD:176:SER:OG	2.14	0.48
46:BB:91:VAL:HG21	46:BB:116:VAL:HB	1.95	0.48
45:BC:10:GLY:O	45:BC:14:ILE:HG12	2.12	0.48
46:BD:121:ARG:HG2	46:BD:125:GLU:OE2	2.13	0.48
46:BH:203:ASP:O	46:BH:207:LEU:HG	2.13	0.48
46:BH:247:ASN:O	46:BH:252:LYS:NZ	2.31	0.48
46:BH:285:THR:O	46:BH:289:LEU:HD23	2.14	0.48
45:BK:268:MET:HG3	45:BK:380:ASN:OD1	2.12	0.48
45:BM:237:SER:HA	45:BM:320:ARG:HH11	1.78	0.48
46:BN:90:PHE:HB3	46:BN:92:PHE:CE2	2.46	0.48
45:CA:319:TYR:HB3	45:CA:323:VAL:HG11	1.95	0.48
45:CC:10:GLY:O	45:CC:13:GLY:N	2.46	0.48
46:CF:255:VAL:HG21	45:CG:100:ALA:O	2.14	0.48
46:CH:324:LYS:NZ	45:CI:210:TYR:HB3	2.28	0.48
46:DD:293:MET:HE1	46:DD:315:ALA:HB2	1.96	0.48
45:DE:346:TRP:CD1	46:DF:391:ARG:HG3	2.48	0.48
45:DI:62:VAL:HG21	45:EI:283:HIS:O	2.14	0.48
46:DJ:190:HIS:HB2	46:DJ:415:MET:HE1	1.96	0.48
46:DL:156:ARG:NH2	46:DL:160:PRO:O	2.47	0.48
46:DL:175:VAL:HG22	46:DL:205:GLU:HB3	1.96	0.48
45:DM:317:MET:HG3	45:DM:377:MET:HB3	1.95	0.48
46:EB:130:LEU:HD11	46:EB:133:PHE:HE1	1.78	0.48
45:EC:50:ASN:O	45:EC:64:ARG:NH1	2.46	0.48
46:EF:376:GLU:OE2	46:EF:380:ARG:NH1	2.46	0.48
46:EH:258:ILE:HD11	45:EI:407:TRP:CZ2	2.49	0.48
46:EJ:208:TYR:CE2	46:EJ:225:LEU:HD11	2.48	0.48
45:EK:371:VAL:HG12	45:EK:373:ARG:H	1.79	0.48
46:EL:392:LYS:HD3	46:EL:392:LYS:N	2.29	0.48
45:EM:332:ILE:HG22	45:EM:336:LYS:NZ	2.29	0.48
46:FF:36:TYR:O	46:FF:37:HIS:ND1	2.47	0.48
45:FG:69:ASP:OD1	45:FG:71:GLU:N	2.38	0.48
45:FI:210:TYR:CZ	45:FI:227:LEU:HD11	2.48	0.48
46:FL:293:MET:CE	46:FL:367:PHE:HB2	2.43	0.48
45:FM:224:TYR:HE2	46:FN:246:LEU:HD11	1.77	0.48
45:GA:183:GLU:N	45:GA:184:PRO:HD2	2.28	0.48
46:GH:221:THR:HG23	46:GH:224:ASP:H	1.77	0.48
45:GI:2:ARG:HH21	45:GI:243:ARG:HA	1.78	0.48
46:GJ:372:THR:HA	46:GJ:422:TYR:CE2	2.49	0.48
45:GM:71:GLU:OE1	46:GN:247:ASN:ND2	2.45	0.48
45:GM:328:VAL:HG11	45:GM:353:VAL:HG21	1.96	0.48
46:GN:273:LEU:H	46:GN:292:GLN:NE2	2.01	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HA:2:ARG:NH2	46:HD:70:PRO:HD2	2.29	0.48
45:HA:258:ASN:CG	45:HA:352:LYS:HE3	2.39	0.48
46:HB:28:HIS:C	46:HB:43:GLN:HE21	2.21	0.48
45:HE:3:GLU:OE2	45:HE:131:GLY:N	2.46	0.48
45:HE:334:THR:O	45:HE:338:LYS:HG2	2.14	0.48
46:HJ:285:THR:HG23	46:HJ:288:GLU:H	1.78	0.48
46:HL:273:LEU:H	46:HL:292:GLN:NE2	2.12	0.48
46:IB:3:GLU:H	46:IB:3:GLU:CD	2.22	0.48
46:ID:16:ILE:HD13	46:ID:226:ASN:OD1	2.14	0.48
45:IE:207:GLU:HA	45:IE:210:TYR:HD2	1.79	0.48
46:IJ:86:ARG:NE	45:JG:283:HIS:HB2	2.29	0.48
45:IK:3:GLU:HB2	45:IK:129:CYS:SG	2.54	0.48
45:KC:119:LEU:HA	45:KC:122:ILE:HG22	1.94	0.48
45:KC:329:ASN:HB3	46:KF:175:VAL:HG21	1.96	0.48
45:KG:212:ILE:HD11	45:KG:300:ASN:HA	1.96	0.48
46:KH:130:LEU:HB3	46:KH:162:ARG:HH12	1.78	0.48
46:KJ:268:ILE:HG13	46:KJ:300:MET:HG3	1.96	0.48
45:KK:264:ARG:HH22	45:KK:428:LEU:HD13	1.79	0.48
46:KL:294:PHE:CD2	46:KL:333:VAL:HG21	2.48	0.48
46:KN:8:GLN:HE21	46:KN:14:ASN:HA	1.78	0.48
46:KN:262:ARG:NH1	46:KN:421:GLU:OE1	2.46	0.48
46:LD:8:GLN:OE1	46:LD:17:GLY:HA3	2.14	0.48
45:LI:19:ALA:HA	45:LI:22:GLU:OE1	2.13	0.48
45:LI:210:TYR:CE1	45:LI:227:LEU:HD11	2.48	0.48
45:LI:222:PRO:HD2	46:LJ:324:LYS:NZ	2.28	0.48
46:LJ:173:PRO:HG2	46:LJ:380:ARG:HD3	1.95	0.48
46:LJ:186:THR:HA	46:LJ:415:MET:HE1	1.95	0.48
45:MA:223:THR:HG23	45:MA:225:THR:H	1.78	0.48
45:MA:262:TYR:OH	46:MD:391:ARG:O	2.30	0.48
45:MA:282:TYR:HE1	45:MA:371:VAL:HG22	1.79	0.48
46:MB:91:VAL:HG21	46:MB:116:VAL:HB	1.94	0.48
45:MC:51:THR:HG22	45:MC:52:PHE:CD1	2.49	0.48
45:MC:280:LYS:HG3	45:MC:280:LYS:O	2.14	0.48
46:MH:254:ALA:O	46:MH:258:ILE:HG12	2.14	0.48
46:MJ:210:ILE:O	46:MJ:214:THR:OG1	2.31	0.48
45:MK:183:GLU:N	45:MK:184:PRO:HD2	2.29	0.48
45:MM:6:SER:OG	45:MM:8:HIS:NE2	2.45	0.48
45:MM:288:VAL:HA	45:MM:291:ILE:HG12	1.95	0.48
45:NA:394:LYS:HE2	45:NA:398:MET:HE3	1.95	0.48
45:NC:231:ILE:O	45:NC:235:ILE:HG12	2.14	0.48
46:NF:257:LEU:HA	46:NF:312:THR:HG21	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NG:258:ASN:HB3	45:NG:352:LYS:HZ2	1.78	0.48
45:NG:417:GLU:HA	45:NG:420:GLU:OE2	2.13	0.48
46:NH:31:ASP:CG	46:NH:35:THR:HB	2.39	0.48
46:NH:101:TRP:HB3	46:NH:398:TYR:HE1	1.79	0.48
46:NJ:40:SER:H	46:NJ:43:GLN:HE21	1.62	0.48
46:NJ:156:ARG:CZ	46:NJ:195:ASN:HA	2.44	0.48
45:NK:72:PRO:HG2	46:NL:1:MET:SD	2.54	0.48
45:NM:28:HIS:NE2	45:NM:49:PHE:HB3	2.27	0.48
45:OA:89:PRO:HD2	45:PA:280:LYS:CE	2.44	0.48
46:OD:119:VAL:O	46:OD:122:LYS:HG3	2.14	0.48
45:OG:195:LEU:HD21	45:OG:264:ARG:HE	1.79	0.48
45:OI:271:SER:HB3	45:OI:377:MET:HE3	1.95	0.48
46:ON:334:GLN:HG3	46:ON:341:PHE:CD2	2.48	0.48
46:PF:256:ASN:ND2	46:PF:350:LYS:HE3	2.29	0.48
45:PG:256:GLN:O	46:PJ:397:TRP:NE1	2.46	0.48
46:PH:45:GLU:HG2	46:PH:46:ARG:HG2	1.96	0.48
46:PJ:310:TYR:CD1	46:PJ:371:SER:HB2	2.48	0.48
46:PL:86:ARG:HA	46:QJ:281:TYR:CE2	2.49	0.48
46:PL:375:GLN:HG3	46:PL:379:LYS:NZ	2.28	0.48
46:QB:289:LEU:HB3	46:QB:365:VAL:HG21	1.96	0.48
45:QE:175:PRO:HG2	45:QE:176:GLN:OE1	2.13	0.48
45:QG:14:ILE:HG23	45:QG:67:PHE:CD1	2.48	0.48
46:QH:226:ASN:HA	46:QH:229:VAL:HG12	1.95	0.48
45:QI:317:MET:O	45:QI:318:MET:HE2	2.13	0.48
45:QI:377:MET:SD	45:QI:379:SER:OG	2.57	0.48
45:QK:256:GLN:HG2	45:QK:260:VAL:HG21	1.96	0.48
45:RC:131:GLY:O	45:RC:133:GLN:NE2	2.46	0.48
45:RC:252:ILE:HD12	45:RC:252:ILE:H	1.78	0.48
45:RC:404:PHE:HA	45:RC:407:TRP:HZ3	1.77	0.48
46:RD:46:ARG:NH2	45:RE:76:ASP:OD2	2.47	0.48
45:RE:166:LYS:N	45:RE:199:ASP:OD2	2.37	0.48
46:RH:327:ASP:O	46:RH:330:MET:HG2	2.14	0.48
46:RJ:19:LYS:NZ	46:RJ:223:GLY:O	2.47	0.48
46:RL:8:GLN:HG2	46:RL:13:GLY:O	2.14	0.48
46:RL:271:ALA:HB1	46:RL:272:PRO:HA	1.94	0.48
45:SE:73:THR:O	45:SE:77:GLU:HG3	2.13	0.48
45:SE:278:ALA:HB2	45:SE:369:ALA:HB2	1.96	0.48
45:SI:430:LYS:O	45:SI:433:GLU:HG3	2.14	0.48
46:SJ:167:PHE:CE1	46:SJ:233:MET:HG2	2.48	0.48
45:SK:265:ILE:HG13	45:SK:380:ASN:HD21	1.78	0.48
46:SL:51:TYR:CE1	46:SL:61:PRO:HG3	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TB:347:ASN:ND2	45:TC:176:GLN:O	2.46	0.48
46:TD:1:MET:HE1	45:TE:96:LYS:HG3	1.94	0.48
46:TD:10:GLY:O	46:TD:14:ASN:ND2	2.45	0.48
45:TE:223:THR:HG23	45:TE:225:THR:H	1.78	0.48
46:TH:190:HIS:ND1	46:TH:411:ALA:HA	2.27	0.48
46:TL:105:HIS:CE1	46:TL:150:LEU:HD12	2.47	0.48
45:TM:315:CYS:SG	45:TM:379:SER:OG	2.70	0.48
45:UA:224:TYR:HD1	45:UA:227:LEU:HD12	1.79	0.48
45:UE:387:VAL:HA	45:UE:390:ARG:NE	2.27	0.48
45:UE:420:GLU:HA	45:UE:423:GLU:CD	2.39	0.48
46:UF:265:PHE:HE1	46:UF:418:LEU:HD21	1.77	0.48
46:UH:116:VAL:HA	46:UH:119:VAL:HG12	1.96	0.48
46:UJ:322:SER:H	45:UK:221:ARG:NH2	2.11	0.48
46:UL:265:PHE:HE1	46:UL:418:LEU:HD21	1.78	0.48
46:UN:262:ARG:NH1	46:UN:421:GLU:OE1	2.46	0.48
46:UN:387:ALA:O	46:UN:390:ARG:NH1	2.40	0.48
46:VD:86:ARG:NE	46:VD:88:ASP:HB2	2.28	0.48
45:VE:401:LYS:HD2	46:VF:344:TRP:CE3	2.49	0.48
45:VM:231:ILE:O	45:VM:235:ILE:HG12	2.14	0.48
46:VN:5:VAL:HA	46:VN:62:ARG:HD3	1.96	0.48
46:VN:172:SER:HA	46:VN:380:ARG:NH1	2.29	0.48
46:WD:232:ALA:HB1	46:WD:268:ILE:HD12	1.96	0.48
46:WF:336:LYS:HB2	46:WF:336:LYS:NZ	2.29	0.48
45:WG:434:GLU:O	45:WG:437:ILE:HG12	2.14	0.48
46:WJ:201:VAL:HG22	46:WJ:266:PHE:O	2.14	0.48
46:WL:257:LEU:HD21	46:WL:314:SER:OG	2.14	0.48
45:CE:133:GLN:HB3	45:CE:252:ILE:HG21	1.95	0.48
45:DC:71:GLU:OE1	45:DC:73:THR:OG1	2.29	0.48
45:DC:102:ASN:ND2	45:DC:407:TRP:O	2.43	0.48
1:0A:103:GLN:NE2	34:7R:58:ARG:H	2.12	0.48
2:0B:122:ILE:HB	22:2M:20:ILE:HD11	1.96	0.48
2:0B:233:ASN:HB3	2:0B:236:ILE:CG2	2.44	0.48
4:0D:126:TRP:O	4:0D:130:LEU:HD12	2.14	0.48
4:0D:224:ARG:HB2	34:7R:566:PHE:CZ	2.49	0.48
5:0E:16:LEU:HD12	5:0E:27:LEU:HD11	1.96	0.48
8:0H:393:GLU:O	8:0H:397:LEU:HD23	2.14	0.48
9:0N:7:ASP:OD2	9:0N:8:ARG:N	2.46	0.48
11:0S:229:ILE:O	11:0S:233:ILE:HG12	2.13	0.48
12:0T:283:TYR:OH	13:0U:7:ILE:HD12	2.14	0.48
16:1B:432:TYR:HA	16:1B:495:ALA:O	2.14	0.48
17:1F:155:ASP:OD1	46:HL:296:ALA:HB3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:1I:107:GLY:HA2	22:1M:279:GLU:OE1	2.14	0.48
21:1L:265:ASN:HA	21:1L:320:GLN:NE2	2.29	0.48
21:1L:573:THR:HG23	21:1L:577:ASN:O	2.14	0.48
23:1O:55:GLU:O	23:1O:58:LEU:HG	2.14	0.48
23:1O:168:ASP:HA	23:1O:171:LYS:HE2	1.96	0.48
24:1P:290:LEU:O	24:1P:293:LYS:N	2.46	0.48
10:1Q:109:GLN:O	10:1Q:122:PRO:HB3	2.13	0.48
12:1T:105:ARG:HG3	12:1T:105:ARG:HH11	1.79	0.48
13:1U:308:GLU:O	13:1U:309:LYS:HD3	2.14	0.48
15:1X:3:ARG:HD3	46:MH:15:GLN:HE21	1.79	0.48
15:1X:50:GLU:CD	15:1X:54:ARG:HH22	2.21	0.48
16:2B:45:GLU:HA	16:2B:78:GLU:HG2	1.96	0.48
21:2L:393:HIS:HA	21:2L:396:ASN:HD21	1.79	0.48
9:2N:1:MET:N	45:IA:95:GLY:HA2	2.28	0.48
9:2N:62:TYR:CD2	9:2N:280:PRO:HB3	2.49	0.48
23:2O:386:GLU:HA	23:2O:389:LYS:NZ	2.29	0.48
25:2R:48:LEU:O	25:2R:200:ASN:ND2	2.46	0.48
25:2R:251:PHE:CD1	25:2R:276:ALA:HB1	2.49	0.48
12:2T:133:LYS:HE3	45:MG:127:ASP:O	2.14	0.48
12:2T:147:PHE:HZ	46:MJ:107:THR:HA	1.78	0.48
14:2V:176:GLN:O	14:2V:180:LYS:HG2	2.14	0.48
16:3B:93:ILE:HG12	16:3B:174:ASN:HD22	1.78	0.48
32:3D:29:TYR:HB3	32:3D:70:VAL:HB	1.94	0.48
31:3I:228:ARG:NH2	46:GL:297:LYS:O	2.45	0.48
10:3Q:105:ALA:C	10:3Q:123:MET:HE2	2.38	0.48
12:3T:120:LEU:HD22	12:3T:199:ARG:O	2.13	0.48
13:3U:136:GLN:HG2	13:3U:138:LYS:HZ2	1.77	0.48
13:3U:513:LYS:HB2	13:3U:526:ARG:NH1	2.29	0.48
14:3V:203:GLU:HG2	14:3V:206:ARG:HH21	1.78	0.48
10:4Q:83:LEU:HD23	10:4Q:83:LEU:H	1.77	0.48
34:4R:208:ALA:HA	34:4R:211:ALA:HB3	1.96	0.48
36:5C:45:TYR:CZ	36:5C:56:ILE:HG13	2.48	0.48
35:5S:69:TYR:HD1	35:5S:74:LEU:HD12	1.77	0.48
40:6G:95:VAL:HG12	45:UK:113:GLU:OE2	2.14	0.48
40:6G:149:ALA:C	40:6G:153:LYS:HZ2	2.21	0.48
10:6Q:90:GLU:HB3	10:6Q:104:ARG:HD3	1.96	0.48
34:6R:534:HIS:NE2	34:6R:578:TYR:OH	2.45	0.48
45:AC:279:GLU:CD	45:AC:279:GLU:H	2.22	0.48
45:AE:98:ASP:OD2	45:AE:99:ALA:N	2.47	0.48
46:AF:213:ARG:O	46:AF:216:LYS:HE3	2.14	0.48
45:AG:22:GLU:O	45:AG:26:LEU:HG	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AI:147:SER:HB2	45:AI:190:SER:HB3	1.95	0.48
45:BA:3:GLU:N	45:BA:133:GLN:OE1	2.46	0.48
46:BB:100:ASN:HD22	46:BB:103:LYS:HB2	1.78	0.48
45:BC:287:SER:O	45:BC:290:GLU:HG2	2.13	0.48
46:BD:65:LEU:HD22	46:BD:90:PHE:CE1	2.48	0.48
45:BE:98:ASP:O	45:BE:105:ARG:NH1	2.47	0.48
46:BJ:6:HIS:HD2	46:BJ:21:TRP:HE1	1.61	0.48
46:BJ:190:HIS:CE1	46:BJ:414:ASN:HD22	2.32	0.48
46:BJ:318:ARG:HH11	46:BJ:358:PRO:HG3	1.79	0.48
46:BL:68:LEU:HD23	46:BL:143:THR:OG1	2.13	0.48
46:BL:173:PRO:HD3	46:BL:380:ARG:NH1	2.29	0.48
46:BN:153:SER:O	46:BN:157:GLU:HG3	2.12	0.48
46:CB:145:SER:HB2	46:CB:188:SER:HB3	1.96	0.48
46:CB:297:LYS:HA	46:CB:297:LYS:HE2	1.95	0.48
46:CB:321:MET:HB2	45:CC:221:ARG:NH2	2.28	0.48
45:CC:398:MET:N	45:CC:398:MET:HE2	2.29	0.48
46:CF:379:LYS:HE2	46:CF:380:ARG:HH12	1.78	0.48
45:CI:70:LEU:HA	45:CI:95:GLY:H	1.79	0.48
45:CK:101:ASN:HA	45:CK:144:GLY:H	1.78	0.48
45:CK:187:SER:O	45:CK:191:THR:HG23	2.13	0.48
45:DE:324:VAL:HG22	45:DE:326:LYS:HG2	1.95	0.48
45:DG:135:PHE:HB2	45:DG:166:LYS:HG2	1.96	0.48
46:DH:8:GLN:O	46:DH:66:MET:HG2	2.14	0.48
45:DK:261:PRO:HA	46:DL:394:PHE:CD1	2.49	0.48
45:DK:434:GLU:O	45:DK:437:ILE:HG12	2.14	0.48
46:DL:2:ARG:HB3	46:DL:131:GLN:HG3	1.95	0.48
45:DM:98:ASP:OD1	45:DM:99:ALA:N	2.47	0.48
45:DM:338:LYS:HZ1	45:DM:341:ILE:HD12	1.77	0.48
46:EB:318:ARG:HD3	46:EB:358:PRO:HG3	1.96	0.48
46:EH:36:TYR:CZ	46:EH:44:LEU:HD11	2.48	0.48
45:EI:231:ILE:O	45:EI:235:ILE:HG12	2.14	0.48
45:EK:223:THR:HG23	45:EK:225:THR:H	1.78	0.48
45:EK:332:ILE:HA	45:EK:335:ILE:HG12	1.95	0.48
45:EM:322:ASP:OD1	45:EM:373:ARG:NH1	2.45	0.48
45:FC:10:GLY:O	45:FC:14:ILE:HG12	2.13	0.48
45:FC:184:PRO:O	45:FC:188:ILE:HG12	2.14	0.48
45:FE:220:GLU:OE1	45:FE:221:ARG:NH1	2.40	0.48
45:FG:141:VAL:HG11	45:FG:172:TYR:CD1	2.48	0.48
45:FI:107:HIS:O	45:FI:107:HIS:ND1	2.46	0.48
45:GA:118:CYS:O	45:GA:122:ILE:HG12	2.14	0.48
45:GC:183:GLU:N	45:GC:184:PRO:HD2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GC:192:HIS:ND1	45:GC:424:ASP:OD2	2.45	0.48
45:GE:81:GLY:O	45:GE:84:ARG:HG3	2.14	0.48
45:GE:358:GLN:NE2	45:GE:359:PRO:O	2.47	0.48
46:GF:51:TYR:HE2	46:GF:61:PRO:HG3	1.77	0.48
46:GF:131:GLN:O	46:GF:163:ILE:HG12	2.12	0.48
45:GG:268:MET:HG3	45:GG:380:ASN:HB2	1.95	0.48
46:GJ:86:ARG:HB3	46:GJ:89:ASN:OD1	2.13	0.48
46:HB:285:THR:O	46:HB:288:GLU:HG3	2.14	0.48
46:HF:105:HIS:CE1	46:HF:150:LEU:HD12	2.49	0.48
45:HG:89:PRO:HD3	45:IG:280:LYS:NZ	2.28	0.48
45:HK:202:VAL:C	45:HK:203:MET:HE2	2.39	0.48
46:IB:273:LEU:N	46:IB:292:GLN:HE22	2.04	0.48
45:IG:69:ASP:OD1	45:IG:70:LEU:N	2.47	0.48
46:IJ:1:MET:N	46:IJ:3:GLU:OE1	2.45	0.48
45:IK:167:LEU:HG	45:IK:200:VAL:HB	1.96	0.48
46:IL:285:THR:HB	46:IL:287:PRO:HD2	1.96	0.48
45:IM:174:SER:OG	45:IM:207:GLU:OE1	2.21	0.48
45:IM:271:SER:HB3	45:IM:377:MET:HB3	1.96	0.48
45:JC:183:GLU:N	45:JC:184:PRO:HD2	2.29	0.48
46:JD:190:HIS:CD2	46:JD:414:ASN:HD22	2.32	0.48
46:JD:313:ALA:HB1	46:JD:367:PHE:HE1	1.79	0.48
45:JE:222:PRO:O	46:JF:324:LYS:NZ	2.32	0.48
45:JI:47:ASP:OD1	45:JI:50:ASN:ND2	2.47	0.48
45:JI:217:LEU:HD13	45:JI:277:SER:HB3	1.95	0.48
46:JL:67:ASP:OD1	46:JL:68:LEU:N	2.40	0.48
45:KE:68:LEU:HD23	45:KE:93:ILE:HB	1.95	0.48
45:KE:414:GLU:CD	45:KE:416:GLY:H	2.21	0.48
46:KF:198:GLU:HB3	46:KF:266:PHE:CE2	2.48	0.48
45:KG:269:LEU:H	45:KG:269:LEU:HD23	1.78	0.48
46:KH:68:LEU:HD12	46:KH:97:ALA:HB2	1.96	0.48
46:KJ:8:GLN:HG3	46:KJ:65:LEU:HD13	1.95	0.48
46:KN:171:PRO:HG2	46:KN:181:GLU:OE2	2.14	0.48
45:LA:191:THR:HA	45:LA:194:LEU:HG	1.96	0.48
46:LB:224:ASP:O	46:LB:228:LEU:HD23	2.13	0.48
46:LD:342:VAL:HG13	46:LD:345:ILE:HG22	1.95	0.48
45:LE:103:PHE:HB2	45:LE:186:ASN:HB3	1.95	0.48
46:LJ:251:ARG:O	46:LJ:255:VAL:HG23	2.14	0.48
46:MF:12:CYS:O	46:MF:16:ILE:HG12	2.14	0.48
46:MH:66:MET:SD	46:MH:147:MET:HE3	2.54	0.48
45:MI:184:PRO:O	45:MI:188:ILE:HG12	2.13	0.48
45:MK:227:LEU:O	45:MK:231:ILE:HD12	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ML:407:GLU:HA	46:ML:410:GLU:CD	2.38	0.48
45:MM:311:LYS:N	45:MM:382:THR:OG1	2.42	0.48
45:NC:55:GLU:OE2	45:NC:56:THR:N	2.47	0.48
45:NC:372:MET:HG2	45:NC:373:ARG:HD3	1.95	0.48
45:NG:222:PRO:HD2	46:NH:324:LYS:CE	2.44	0.48
45:NG:242:LEU:HD11	45:NG:252:ILE:HG13	1.96	0.48
46:NH:161:ASP:OD1	46:NH:162:ARG:N	2.47	0.48
46:NJ:164:MET:HB2	46:NJ:197:ASP:CG	2.39	0.48
45:NK:311:LYS:H	45:NK:382:THR:HB	1.78	0.48
45:NM:53:PHE:O	45:NM:64:ARG:NH1	2.41	0.48
46:NN:133:PHE:HB2	46:NN:164:MET:SD	2.54	0.48
46:OD:114:ASP:O	46:OD:117:LEU:HG	2.14	0.48
46:OF:268:ILE:O	46:OF:300:MET:HB2	2.14	0.48
46:OJ:65:LEU:HB3	46:OJ:73:MET:HE1	1.96	0.48
46:OJ:133:PHE:O	46:OJ:164:MET:HA	2.14	0.48
46:OJ:164:MET:SD	46:OJ:196:ALA:HA	2.54	0.48
46:OJ:310:TYR:HE2	46:OJ:367:PHE:HZ	1.62	0.48
46:PB:262:ARG:NH1	46:PB:421:GLU:OE1	2.45	0.48
46:PD:87:PRO:HA	46:PD:90:PHE:CD2	2.49	0.48
45:PG:205:ASP:OD1	45:PG:303:ALA:HA	2.14	0.48
45:PG:221:ARG:HA	46:PH:324:LYS:NZ	2.28	0.48
46:PJ:16:ILE:HD13	46:PJ:226:ASN:OD1	2.14	0.48
46:PJ:86:ARG:NE	46:QH:281:TYR:HB3	2.28	0.48
45:PK:206:ASN:OD1	47:PK:501:GTP:N2	2.47	0.48
46:PL:121:ARG:O	46:PL:125:GLU:HG2	2.14	0.48
45:PM:394:LYS:HE3	46:PN:346:PRO:HG2	1.96	0.48
46:PN:5:VAL:HG12	46:PN:62:ARG:HD3	1.95	0.48
45:QC:52:PHE:HZ	45:QC:239:THR:HG21	1.78	0.48
46:QD:3:GLU:HG3	46:QD:62:ARG:NH1	2.29	0.48
46:QD:69:GLU:CD	46:QD:71:GLY:H	2.22	0.48
46:QD:207:LEU:HD13	46:QD:225:LEU:HB3	1.95	0.48
46:QD:418:LEU:HD12	46:QD:421:GLU:OE1	2.13	0.48
46:QF:49:VAL:HG21	46:QF:241:ARG:HG2	1.96	0.48
46:QF:346:PRO:HG2	45:QG:394:LYS:NZ	2.28	0.48
45:QK:136:LEU:HD12	45:QK:169:PHE:HE2	1.79	0.48
45:QK:322:ASP:OD2	45:QK:373:ARG:NH1	2.44	0.48
45:QM:85:GLN:CD	45:QM:85:GLN:H	2.22	0.48
45:RA:287:SER:O	45:RA:291:ILE:HG12	2.13	0.48
45:RC:119:LEU:HA	45:RC:122:ILE:HG12	1.95	0.48
45:RE:288:VAL:HG11	45:RE:327:ASP:HB3	1.95	0.48
46:RH:67:ASP:OD1	46:RH:68:LEU:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RI:72:PRO:O	45:RI:76:ASP:HB2	2.14	0.48
45:RK:265:ILE:HG12	45:RK:432:TYR:CE1	2.49	0.48
46:RL:344:TRP:CG	45:RM:401:LYS:HZ1	2.31	0.48
45:RM:102:ASN:ND2	45:RM:105:ARG:HG2	2.29	0.48
45:RM:217:LEU:HD22	45:RM:367:ASP:HB3	1.95	0.48
46:SB:64:ILE:HA	46:SB:89:ASN:HB3	1.96	0.48
46:SB:370:ASN:OD1	46:SB:422:TYR:OH	2.30	0.48
45:SC:118:CYS:O	45:SC:122:ILE:HG12	2.14	0.48
45:SC:141:VAL:HG12	45:SC:171:ILE:O	2.13	0.48
45:SC:329:ASN:HB3	46:SD:175:VAL:HG12	1.95	0.48
46:SD:379:LYS:O	46:SD:383:GLU:OE1	2.31	0.48
45:SI:80:THR:O	45:SI:84:ARG:NH2	2.46	0.48
45:SI:211:ASP:HA	45:SI:214:ARG:HG2	1.96	0.48
46:SL:64:ILE:HG21	46:SL:116:VAL:HG23	1.96	0.48
46:SL:350:LYS:NZ	45:SM:180:ALA:HA	2.29	0.48
46:SN:198:GLU:HG2	46:SN:266:PHE:HE2	1.78	0.48
46:TF:409:THR:O	46:TF:412:GLU:HG3	2.14	0.48
45:TG:82:THR:HG23	45:TG:83:TYR:CD2	2.48	0.48
45:TG:88:HIS:ND1	45:TG:91:GLN:OE1	2.44	0.48
45:UC:227:LEU:O	45:UC:231:ILE:HG12	2.13	0.48
46:UF:221:THR:HG23	46:UF:223:GLY:H	1.78	0.48
46:UH:60:VAL:HG21	46:VH:281:TYR:HE1	1.77	0.48
46:UH:346:PRO:HD2	45:UI:398:MET:HE1	1.96	0.48
46:UJ:383:GLU:HA	46:UJ:386:THR:HG22	1.96	0.48
45:UM:227:LEU:O	45:UM:231:ILE:HG12	2.13	0.48
45:UM:242:LEU:HD21	45:UM:251:ASP:HA	1.96	0.48
46:UN:22:GLU:HG2	46:UN:81:PHE:HB2	1.95	0.48
46:UN:404:ASP:O	46:UN:407:GLU:HG2	2.13	0.48
46:VB:345:ILE:O	46:VB:345:ILE:HG13	2.14	0.48
45:VE:135:PHE:HE2	45:VE:157:LEU:HD12	1.79	0.48
45:VE:319:TYR:HE2	45:VE:328:VAL:HG13	1.79	0.48
46:VF:116:VAL:HA	46:VF:119:VAL:HG12	1.96	0.48
46:VH:216:LYS:HG2	46:VH:275:SER:HB3	1.96	0.48
46:WB:167:PHE:CE2	46:WB:200:MET:HG3	2.49	0.48
45:WE:306:ASP:OD2	45:WE:308:ARG:NH2	2.39	0.48
46:WH:143:THR:OG1	49:WH:501:GDP:O1B	2.25	0.48
45:WI:66:VAL:HG11	45:WI:122:ILE:HD11	1.94	0.48
45:WI:223:THR:HG23	45:WI:225:THR:H	1.78	0.48
45:WK:68:LEU:HD21	45:WK:118:CYS:HB3	1.95	0.48
45:WM:21:TRP:CZ2	45:WM:65:ALA:HB2	2.49	0.48
45:DC:333:ALA:O	45:DC:337:THR:HG23	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:0N:86:ALA:HB2	9:0N:114:THR:HG22	1.96	0.48
11:0S:196:LEU:HA	11:0S:199:LYS:HE2	1.96	0.48
13:0U:379:SER:OG	13:0U:381:TRP:NE1	2.47	0.48
14:0V:69:SER:OG	46:MN:336:LYS:HB3	2.14	0.48
1:1A:67:PRO:HG3	46:MF:53:GLU:CG	2.44	0.48
18:1I:99:LYS:O	18:1I:99:LYS:NZ	2.42	0.48
21:1L:374:LEU:HB3	21:1L:375:PRO:HD3	1.95	0.48
21:1L:556:LEU:HD12	21:1L:556:LEU:O	2.12	0.48
23:1O:266:GLU:HB2	45:UA:282:TYR:CE1	2.48	0.48
24:1P:243:GLU:HA	24:1P:246:ILE:HG22	1.94	0.48
13:1U:431:VAL:HG12	13:1U:443:ALA:HA	1.96	0.48
16:2B:254:ALA:HA	16:2B:257:GLU:HG2	1.96	0.48
31:2I:140:ILE:O	46:GD:306:ARG:NH2	2.46	0.48
20:2K:297:SER:O	46:GL:276:ARG:NH2	2.47	0.48
21:2L:634:ARG:HE	21:2L:675:PHE:HZ	1.61	0.48
9:2N:98:GLU:OE1	9:2N:175:THR:OG1	2.27	0.48
24:2P:382:ASP:O	24:2P:385:ILE:N	2.47	0.48
24:2P:389:LEU:O	24:2P:393:GLU:OE1	2.31	0.48
24:2P:391:ARG:NH2	45:TM:365:GLY:H	2.12	0.48
25:2R:448:VAL:HB	25:2R:464:LEU:HB2	1.95	0.48
12:2T:264:LYS:HD3	13:2U:27:ASN:HB2	1.96	0.48
13:2U:256:ALA:HB3	13:2U:260:THR:HB	1.95	0.48
14:2V:154:ASN:O	14:2V:158:LYS:NZ	2.29	0.48
26:2W:254:ARG:NH2	34:6R:21:LEU:HB2	2.29	0.48
26:2W:256:ARG:HH12	26:2W:260:ILE:HD12	1.78	0.48
32:3D:159:ILE:HB	32:3D:194:VAL:HG11	1.96	0.48
21:3L:199:ASP:OD1	21:3L:200:ASN:N	2.41	0.48
10:3Q:37:ILE:HD11	35:5S:208:GLN:CD	2.39	0.48
10:3Q:90:GLU:HB3	10:3Q:104:ARG:HH11	1.78	0.48
25:3R:224:PHE:CD2	46:BN:80:PRO:HD3	2.49	0.48
12:3T:55:LYS:NZ	12:3T:146:MET:HE3	2.29	0.48
12:3T:67:PHE:HB3	12:3T:172:ILE:HD12	1.94	0.48
13:3U:175:ILE:HD13	13:3U:182:VAL:HG12	1.95	0.48
27:4C:183:SER:O	27:4C:187:PHE:CB	2.61	0.48
33:4F:165:THR:HG21	45:IM:225:THR:HB	1.96	0.48
35:4S:106:PHE:CD1	35:4S:142:LEU:HD22	2.48	0.48
36:5D:36:ARG:HG2	36:5D:37:ASP:N	2.27	0.48
10:5Q:163:ARG:HG3	10:5Q:164:ARG:HG2	1.96	0.48
35:5S:122:GLN:O	35:5S:125:GLU:HG3	2.12	0.48
46:AD:99:ASN:HA	46:AD:142:GLY:H	1.79	0.48
45:AG:90:GLU:CD	45:AG:121:ARG:HH22	2.22	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AG:317:MET:HE2	45:AG:319:TYR:CE1	2.49	0.48
46:AH:406:MET:HA	46:AH:406:MET:HE2	1.95	0.48
46:AN:1:MET:HE2	46:AN:1:MET:HA	1.95	0.48
45:BA:107:HIS:HD2	45:BA:108:TYR:CE2	2.32	0.48
46:BB:38:GLY:HA3	46:BB:43:GLN:HE22	1.78	0.48
46:BH:150:LEU:O	46:BH:154:LYS:HG2	2.13	0.48
46:BH:396:HIS:HA	46:BH:399:THR:OG1	2.14	0.48
45:BK:103:PHE:H	45:BK:408:TYR:HE2	1.61	0.48
45:CC:200:VAL:HG13	45:CC:268:MET:HE1	1.95	0.48
46:CD:130:LEU:HB3	46:CD:162:ARG:HH21	1.78	0.48
46:CD:289:LEU:HD12	46:CD:363:MET:HE2	1.95	0.48
46:CH:145:SER:HB2	46:CH:188:SER:HB3	1.96	0.48
45:CI:314:ALA:N	45:CI:380:ASN:OD1	2.47	0.48
46:CJ:86:ARG:HB2	46:CJ:89:ASN:HB2	1.95	0.48
45:DA:326:LYS:HG2	46:DB:208:TYR:CD1	2.49	0.48
45:DE:433:GLU:O	45:DE:437:ILE:HG12	2.13	0.48
46:DH:312:THR:HG22	46:DH:370:ASN:HB3	1.96	0.48
46:DJ:183:TYR:CE1	46:DJ:388:MET:HE3	2.48	0.48
45:DK:221:ARG:HA	45:DK:221:ARG:HD2	1.67	0.48
46:ED:4:ILE:HG13	46:ED:132:GLY:O	2.14	0.48
46:ED:256:ASN:HD22	46:ED:350:LYS:HB2	1.78	0.48
46:ED:322:SER:HB2	45:EE:223:THR:HA	1.96	0.48
45:EE:90:GLU:OE1	45:FC:280:LYS:HE3	2.14	0.48
46:EF:68:LEU:HD13	46:EF:143:THR:OG1	2.13	0.48
46:EJ:122:LYS:HG3	46:FJ:291:GLN:NE2	2.28	0.48
45:EM:426:ALA:HB1	45:EM:430:LYS:HZ1	1.79	0.48
46:EN:116:VAL:HA	46:EN:119:VAL:HG12	1.96	0.48
46:FB:257:LEU:HD21	46:FB:368:VAL:HG13	1.95	0.48
46:FD:150:LEU:O	46:FD:154:LYS:HG2	2.14	0.48
46:FF:155:VAL:HG13	46:FF:164:MET:HE2	1.95	0.48
45:FI:203:MET:HA	45:FI:203:MET:HE2	1.96	0.48
45:FK:241:SER:OG	45:FK:250:VAL:O	2.29	0.48
45:GA:297:GLU:CD	45:GA:299:ALA:H	2.21	0.48
46:GB:100:ASN:HD22	46:GB:103:LYS:HB2	1.78	0.48
45:GC:221:ARG:HA	45:GC:221:ARG:NH1	2.28	0.48
45:GE:288:VAL:HA	45:GE:291:ILE:HG12	1.94	0.48
46:GH:16:ILE:HD13	46:GH:226:ASN:OD1	2.14	0.48
45:GI:102:ASN:ND2	45:GI:105:ARG:HG3	2.29	0.48
46:GJ:287:PRO:HA	46:GJ:290:THR:HG22	1.96	0.48
45:GK:98:ASP:OD1	45:GK:99:ALA:N	2.47	0.48
46:GL:190:HIS:CD2	46:GL:411:ALA:HA	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GL:226:ASN:HA	46:GL:229:VAL:HG12	1.96	0.48
45:GM:171:ILE:HG23	45:GM:204:LEU:O	2.13	0.48
46:GN:383:GLU:HA	46:GN:386:THR:HG22	1.96	0.48
45:HA:260:VAL:HG13	45:HA:265:ILE:O	2.14	0.48
45:HC:331:SER:O	45:HC:335:ILE:HG12	2.14	0.48
46:HD:257:LEU:HD11	46:HD:314:SER:OG	2.14	0.48
45:HE:223:THR:HG23	45:HE:225:THR:H	1.79	0.48
46:HF:186:THR:HA	46:HF:189:VAL:HG12	1.96	0.48
45:HG:384:ILE:O	45:HG:387:VAL:HG22	2.14	0.48
45:HI:260:VAL:O	45:HI:260:VAL:HG13	2.14	0.48
46:HL:154:LYS:O	46:HL:157:GLU:HG3	2.13	0.48
45:HM:268:MET:HB2	45:HM:379:SER:O	2.14	0.48
46:HN:54:ALA:HB3	46:HN:58:ARG:HG2	1.95	0.48
45:IA:120:ASP:O	45:IA:124:LYS:HG3	2.14	0.48
45:IA:347:CYS:HA	46:ID:388:MET:HE1	1.96	0.48
46:IB:309:ARG:HH21	46:IB:342:VAL:HA	1.79	0.48
45:IC:296:PHE:HE2	45:IC:335:ILE:HG21	1.79	0.48
46:ID:130:LEU:HB3	46:ID:162:ARG:NH1	2.23	0.48
46:IF:139:LEU:HD22	46:IF:170:VAL:HG12	1.96	0.48
45:IG:107:HIS:ND1	45:IG:107:HIS:O	2.47	0.48
45:II:118:CYS:O	45:II:122:ILE:HG12	2.14	0.48
46:IJ:4:ILE:HG13	46:IJ:132:GLY:O	2.14	0.48
45:IK:183:GLU:N	45:IK:184:PRO:HD2	2.28	0.48
45:IM:22:GLU:HG2	45:IM:83:TYR:OH	2.13	0.48
46:IN:320:ARG:N	46:IN:363:MET:HE1	2.29	0.48
46:JB:280:GLN:HG2	46:JB:281:TYR:HD2	1.78	0.48
45:JC:278:ALA:HA	45:JC:369:ALA:HB2	1.96	0.48
45:JE:112:LYS:HA	45:JE:115:VAL:HG22	1.95	0.48
45:JE:167:LEU:HD22	45:JE:200:VAL:HB	1.96	0.48
45:JE:271:SER:OG	45:JE:301:MET:SD	2.72	0.48
45:JG:183:GLU:N	45:JG:184:PRO:HD2	2.29	0.48
45:JG:244:PHE:HB2	45:JG:356:ASN:HD21	1.78	0.48
46:JH:133:PHE:HB2	46:JH:164:MET:SD	2.54	0.48
46:JH:322:SER:O	46:JH:325:GLU:HG2	2.13	0.48
45:JI:298:PRO:HG3	45:JI:308:ARG:NH2	2.29	0.48
46:JJ:304:ASP:OD2	46:JJ:306:ARG:HG2	2.14	0.48
46:JL:206:ALA:O	46:JL:210:ILE:HG12	2.14	0.48
45:JM:8:HIS:CD2	45:JM:138:PHE:HD2	2.32	0.48
45:KG:221:ARG:HA	46:KH:324:LYS:NZ	2.29	0.48
45:KM:88:HIS:O	45:KM:91:GLN:HG2	2.14	0.48
45:KM:183:GLU:N	45:KM:184:PRO:HD2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KN:406:MET:O	46:KN:409:THR:N	2.46	0.48
45:LC:174:SER:HB2	45:LC:177:VAL:O	2.14	0.48
46:LF:192:LEU:HD21	46:LF:199:CYS:SG	2.54	0.48
45:LI:17:GLY:HA2	45:LI:20:CYS:SG	2.54	0.48
46:LJ:248:SER:HA	46:LJ:252:LYS:HD2	1.96	0.48
45:LM:98:ASP:OD1	45:LM:99:ALA:N	2.46	0.48
46:LN:155:VAL:HG13	46:LN:164:MET:HE1	1.96	0.48
46:MB:278:SER:HA	46:MB:281:TYR:HD1	1.79	0.48
45:ME:150:GLY:O	45:ME:154:LEU:HD23	2.13	0.48
46:MF:66:MET:HA	46:MF:91:VAL:HG23	1.95	0.48
45:MG:1:MET:N	45:MG:1:MET:SD	2.85	0.48
45:MI:217:LEU:HD12	45:MI:367:ASP:HB3	1.95	0.48
46:MJ:267:MET:HE3	46:MJ:299:MET:HE2	1.95	0.48
46:MJ:288:GLU:OE1	46:MJ:288:GLU:N	2.46	0.48
46:MJ:372:THR:HA	46:MJ:422:TYR:CE2	2.49	0.48
45:MK:208:ALA:O	45:MK:212:ILE:HG12	2.13	0.48
45:MK:258:ASN:HD21	46:MN:178:THR:HG23	1.78	0.48
45:MM:36:MET:SD	45:MM:37:PRO:HD2	2.54	0.48
46:NB:155:VAL:HA	46:NB:158:GLU:OE1	2.14	0.48
46:NH:122:LYS:HE3	46:NH:122:LYS:HB2	1.67	0.48
46:NJ:285:THR:N	46:NJ:288:GLU:OE2	2.30	0.48
46:NL:200:MET:SD	46:NL:268:ILE:HD13	2.53	0.48
45:OC:21:TRP:CZ2	45:OC:65:ALA:HB2	2.49	0.48
46:OF:267:MET:CG	46:OF:299:MET:HE2	2.42	0.48
46:ON:276:ARG:HA	46:ON:279:GLN:OE1	2.14	0.48
46:ON:297:LYS:HD3	46:ON:297:LYS:N	2.29	0.48
45:PA:229:ARG:HH12	45:PA:363:VAL:HG21	1.79	0.48
45:PA:316:SER:HA	45:PA:352:LYS:HB2	1.96	0.48
46:PD:165:GLU:OE2	46:PD:250:LEU:HD12	2.14	0.48
46:PD:379:LYS:O	46:PD:383:GLU:HG2	2.13	0.48
45:PE:261:PRO:HA	46:PH:394:PHE:CD1	2.49	0.48
45:PE:372:MET:HE2	45:PE:372:MET:N	2.28	0.48
45:PG:88:HIS:HB3	45:PG:91:GLN:HG2	1.94	0.48
45:PI:230:LEU:HD11	45:PI:275:ILE:HD13	1.96	0.48
46:PJ:154:LYS:HA	46:PJ:157:GLU:OE1	2.14	0.48
45:PK:76:ASP:HA	45:PK:79:ARG:HG2	1.96	0.48
46:PL:109:GLY:HA2	46:PL:112:LEU:HG	1.96	0.48
46:PL:312:THR:HG22	46:PL:370:ASN:HB3	1.95	0.48
45:PM:109:THR:OG1	45:PM:411:GLU:OE2	2.16	0.48
46:PN:18:ALA:O	46:PN:22:GLU:HG3	2.14	0.48
46:PN:105:HIS:CE1	46:PN:150:LEU:HD12	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QA:172:TYR:CD2	45:QA:203:MET:HG3	2.48	0.48
46:QB:253:LEU:HD12	46:QB:257:LEU:HD13	1.96	0.48
46:QB:313:ALA:HB1	46:QB:367:PHE:CE1	2.49	0.48
45:QE:68:LEU:HD11	45:QE:118:CYS:SG	2.53	0.48
45:QG:19:ALA:HA	45:QG:22:GLU:OE1	2.14	0.48
45:QG:261:PRO:HA	46:QH:394:PHE:CD1	2.48	0.48
45:QG:318:MET:HB2	45:QG:376:CYS:SG	2.54	0.48
46:QJ:132:GLY:HA3	46:QJ:163:ILE:HG22	1.96	0.48
46:QL:152:ILE:HG22	46:QL:195:ASN:HD21	1.78	0.48
46:QL:321:MET:HG3	45:QM:221:ARG:HH22	1.79	0.48
46:RB:20:PHE:CD1	46:RB:233:MET:HE1	2.49	0.48
46:RD:194:GLU:OE2	46:RD:414:ASN:ND2	2.45	0.48
46:RD:324:LYS:NZ	45:RE:214:ARG:HB3	2.28	0.48
45:RE:138:PHE:CD1	45:RE:169:PHE:HB2	2.48	0.48
46:RF:208:TYR:CE1	46:RF:225:LEU:HD11	2.48	0.48
45:RI:31:GLN:NE2	45:RI:35:GLN:O	2.47	0.48
45:RI:288:VAL:HA	45:RI:291:ILE:HG12	1.96	0.48
45:RI:402:ARG:HG2	45:RI:405:VAL:HG21	1.95	0.48
45:RK:206:ASN:HB3	45:RK:210:TYR:CE2	2.49	0.48
46:RL:286:VAL:HB	46:RL:325:GLU:HG2	1.96	0.48
45:RM:224:TYR:O	45:RM:227:LEU:HG	2.13	0.48
45:SA:171:ILE:HG23	45:SA:204:LEU:O	2.14	0.48
46:SD:324:LYS:O	46:SD:327:ASP:N	2.47	0.48
46:SF:68:LEU:HD13	46:SF:143:THR:OG1	2.13	0.48
46:SF:317:PHE:CD1	46:SF:365:VAL:HG22	2.48	0.48
46:SH:330:MET:SD	46:SH:349:ILE:HG21	2.54	0.48
46:SJ:86:ARG:NE	46:SJ:86:ARG:HA	2.28	0.48
46:SJ:173:PRO:CG	46:SJ:380:ARG:HE	2.26	0.48
45:SK:326:LYS:HD2	46:SL:212:PHE:HZ	1.79	0.48
46:SL:313:ALA:HB1	46:SL:367:PHE:CE1	2.47	0.48
46:SN:289:LEU:HD13	46:SN:365:VAL:HG23	1.95	0.48
45:TM:326:LYS:HG2	45:TM:327:ASP:N	2.29	0.48
45:TM:326:LYS:NZ	46:TN:219:THR:HA	2.28	0.48
46:UD:221:THR:HG23	46:UD:224:ASP:H	1.79	0.48
46:UH:341:PHE:CE2	46:UH:349:ILE:HD11	2.49	0.48
46:UL:167:PHE:HA	46:UL:200:MET:HB3	1.95	0.48
45:UM:107:HIS:ND1	45:UM:107:HIS:O	2.47	0.48
46:UN:145:SER:HB2	46:UN:188:SER:HB3	1.95	0.48
45:VC:231:ILE:O	45:VC:235:ILE:HG12	2.14	0.48
45:VE:141:VAL:HG11	45:VE:172:TYR:HD1	1.79	0.48
46:VH:303:ALA:HB2	46:VH:377:MET:HE1	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VI:269:LEU:HD23	45:VI:379:SER:O	2.14	0.48
46:VL:3:GLU:OE1	46:VL:127:CYS:HB2	2.14	0.48
46:VL:139:LEU:HD22	46:VL:188:SER:OG	2.14	0.48
46:VN:49:VAL:HG12	46:VN:50:TYR:HD2	1.78	0.48
45:WK:334:THR:O	45:WK:338:LYS:HG3	2.14	0.48
46:WL:299:MET:HA	46:WL:299:MET:HE2	1.94	0.48
46:WL:299:MET:HG3	46:WL:305:PRO:HG3	1.96	0.48
46:WN:247:ASN:O	46:WN:252:LYS:NZ	2.39	0.48
45:DC:11:GLN:NE2	47:DC:501:GTP:O1A	2.47	0.48
45:DC:319:TYR:CD2	45:DC:323:VAL:HG21	2.48	0.48
2:0B:212:SER:N	45:JI:47:ASP:OD2	2.46	0.48
6:0F:52:PHE:HA	6:0F:55:ILE:HD12	1.95	0.48
13:0U:590:VAL:HG23	13:0U:604:MET:HG2	1.96	0.48
16:1B:439:ILE:HD11	16:1B:491:TYR:HA	1.94	0.48
4:1D:53:ILE:O	45:EG:221:ARG:NH1	2.47	0.48
18:1I:130:ASN:O	18:1I:133:GLU:HG3	2.14	0.48
19:1J:198:ARG:HH21	45:IG:370:LYS:C	2.22	0.48
21:1L:560:ASP:OD1	21:1L:561:ALA:N	2.45	0.48
21:1L:702:PHE:O	21:1L:706:THR:HG23	2.13	0.48
21:1L:930:GLU:HA	21:1L:933:LYS:HG2	1.96	0.48
9:1N:169:GLN:HG2	9:1N:216:GLN:NE2	2.29	0.48
24:1P:223:ARG:HA	24:1P:226:HIS:CD2	2.49	0.48
15:1X:99:VAL:HG22	45:MC:282:TYR:HE2	1.79	0.48
1:2A:3:GLN:HE21	34:5R:7:LYS:C	2.21	0.48
1:2A:35:TYR:HD1	1:2A:47:PRO:HA	1.79	0.48
16:2B:72:TYR:OH	16:2B:76:ARG:N	2.47	0.48
31:2I:138:VAL:HB	46:FD:121:ARG:CZ	2.44	0.48
21:2L:399:HIS:CE1	21:2L:400:LYS:HE3	2.49	0.48
21:2L:525:LEU:HB2	46:BN:320:ARG:CZ	2.43	0.48
23:2O:288:LYS:HZ3	46:VH:359:LYS:HE2	1.79	0.48
23:2O:396:GLN:O	23:2O:400:GLN:HG2	2.14	0.48
11:2S:181:LYS:HA	11:2S:186:ARG:HD3	1.95	0.48
14:2V:40:ASN:ND2	14:2V:45:ARG:O	2.47	0.48
1:3A:39:TYR:CD2	45:MM:81:GLY:HA3	2.48	0.48
27:3C:170:PHE:CE1	27:3C:174:TYR:HE1	2.31	0.48
27:3C:205:ILE:HD11	27:3C:268:ARG:HE	1.78	0.48
27:3C:258:LEU:HG	27:3C:265:ILE:HD12	1.96	0.48
5:3E:162:LYS:HA	5:3E:165:ILE:HG12	1.95	0.48
11:3S:80:VAL:HG13	11:3S:83:ASP:HB3	1.96	0.48
33:4F:17:LYS:HB2	33:4F:18:PRO:HD3	1.94	0.48
15:4X:27:PHE:O	15:4X:28:GLU:HG3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5D:80:ASN:O	36:5D:84:TYR:HD1	1.96	0.48
37:5H:11:TRP:HE3	37:5H:14:ARG:NH1	2.12	0.48
40:6G:95:VAL:HG13	45:UK:96:LYS:HZ1	1.77	0.48
45:AA:271:SER:OG	45:AA:377:MET:HB3	2.13	0.48
45:AA:296:PHE:HE1	45:AA:377:MET:HG3	1.77	0.48
46:AD:16:ILE:HG21	46:AD:136:THR:HG21	1.96	0.48
46:AH:288:GLU:HA	46:AH:291:GLN:HG3	1.95	0.48
46:AJ:295:ASP:OD1	46:AJ:296:ALA:N	2.46	0.48
46:AN:156:ARG:HH22	46:AN:197:ASP:CG	2.22	0.48
46:BB:287:PRO:HG3	46:BB:329:GLN:NE2	2.28	0.48
45:BC:419:SER:O	45:BC:422:ARG:N	2.47	0.48
46:BF:287:PRO:HG3	46:BF:329:GLN:NE2	2.29	0.48
45:BG:164:LYS:O	45:BG:166:LYS:NZ	2.47	0.48
46:BL:105:HIS:CD2	46:BL:150:LEU:HB2	2.48	0.48
45:CA:32:PRO:HB3	45:CA:83:TYR:HE1	1.78	0.48
46:CB:169:VAL:HG12	46:CB:202:ILE:HB	1.96	0.48
46:CH:63:ALA:O	46:CH:89:ASN:ND2	2.36	0.48
46:CJ:148:GLY:O	46:CJ:152:ILE:HG13	2.14	0.48
46:CJ:321:MET:HB2	45:CK:221:ARG:NH2	2.29	0.48
46:DD:299:MET:HA	46:DD:299:MET:HE2	1.95	0.48
45:DE:288:VAL:HG11	45:DE:327:ASP:HB3	1.95	0.48
45:DG:30:ILE:HD11	45:DG:34:GLY:O	2.14	0.48
45:DG:251:ASP:HB3	45:DG:253:THR:HG22	1.96	0.48
45:DK:69:ASP:OD2	45:DK:70:LEU:N	2.46	0.48
45:EA:265:ILE:HG22	45:EA:380:ASN:HD21	1.78	0.48
46:EB:345:ILE:HD13	45:EC:398:MET:HE1	1.96	0.48
45:EC:69:ASP:OD1	45:EC:70:LEU:N	2.47	0.48
45:EC:244:PHE:HB2	45:EC:356:ASN:HD21	1.79	0.48
45:EC:343:PHE:HZ	45:EC:351:PHE:HE1	1.62	0.48
46:EF:293:MET:HG3	46:EF:367:PHE:HB2	1.95	0.48
45:EG:205:ASP:OD1	45:EG:303:ALA:HA	2.14	0.48
46:EH:201:VAL:HG21	46:EH:374:ILE:HD11	1.96	0.48
45:EI:256:GLN:O	46:EJ:397:TRP:NE1	2.46	0.48
46:EJ:8:GLN:OE1	46:EJ:14:ASN:HA	2.14	0.48
46:EL:164:MET:HA	46:EL:164:MET:HE2	1.95	0.48
46:EL:174:LYS:HB2	46:EL:205:GLU:OE2	2.13	0.48
46:FB:3:GLU:OE2	46:FB:49:VAL:HA	2.14	0.48
45:FC:120:ASP:O	45:FC:124:LYS:HG2	2.14	0.48
46:FH:226:ASN:ND2	49:FH:501:GDP:HN1	2.12	0.48
45:FI:257:THR:HA	46:FL:397:TRP:CZ3	2.49	0.48
45:FM:184:PRO:O	45:FM:188:ILE:HG12	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FN:293:MET:HE3	46:FN:367:PHE:HB2	1.96	0.48
45:GA:211:ASP:OD2	45:GA:304:LYS:NZ	2.33	0.48
46:GD:28:HIS:C	46:GD:43:GLN:HE21	2.22	0.48
46:GD:180:VAL:O	46:GD:180:VAL:HG12	2.14	0.48
45:GG:331:SER:O	45:GG:335:ILE:HG12	2.14	0.48
45:GG:332:ILE:HD12	45:GG:351:PHE:CD2	2.49	0.48
46:GJ:290:THR:HA	46:GJ:293:MET:HE2	1.96	0.48
46:HB:289:LEU:HD11	46:HB:363:MET:HB3	1.95	0.48
46:HD:105:HIS:CE1	46:HD:150:LEU:HD12	2.49	0.48
46:HF:139:LEU:HD13	46:HF:168:SER:HB3	1.96	0.48
45:HI:183:GLU:N	45:HI:184:PRO:HD2	2.29	0.48
45:HI:188:ILE:HG12	45:HI:421:ALA:HB1	1.95	0.48
45:HK:2:ARG:O	45:HK:51:THR:HA	2.14	0.48
45:IA:152:LEU:O	45:IA:155:GLU:HG3	2.13	0.48
45:IE:231:ILE:O	45:IE:235:ILE:HG12	2.14	0.48
45:IM:205:ASP:OD1	45:IM:303:ALA:HA	2.14	0.48
45:IM:213:CYS:HA	45:IM:217:LEU:HB2	1.96	0.48
46:JB:263:LEU:HD11	46:JB:425:TYR:HE2	1.79	0.48
45:JG:286:LEU:HD13	45:JG:371:VAL:HG23	1.96	0.48
46:JL:232:ALA:O	46:JL:236:VAL:HG23	2.14	0.48
45:KC:188:ILE:HD12	45:KC:425:LEU:HG	1.96	0.48
45:KE:79:ARG:O	45:KE:84:ARG:HG2	2.13	0.48
45:KG:27:GLU:OE2	45:KG:243:ARG:NH1	2.47	0.48
45:KG:68:LEU:HD22	45:KG:153:LEU:HD11	1.95	0.48
46:KH:66:MET:HE2	46:KH:147:MET:HE3	1.94	0.48
46:KH:192:LEU:HD21	46:KH:199:CYS:SG	2.54	0.48
46:KH:336:LYS:HA	46:KH:336:LYS:HE2	1.96	0.48
45:KM:205:ASP:OD1	45:KM:303:ALA:HA	2.14	0.48
45:KM:360:PRO:O	45:KM:370:LYS:NZ	2.47	0.48
46:KN:232:ALA:HB1	46:KN:268:ILE:HD12	1.95	0.48
46:LB:150:LEU:O	46:LB:154:LYS:HG2	2.13	0.48
45:LE:135:PHE:CZ	45:LE:161:TYR:HE2	2.32	0.48
46:LF:285:THR:HB	46:LF:287:PRO:HD2	1.96	0.48
45:LG:377:MET:SD	45:LG:379:SER:HB3	2.54	0.48
45:LI:254:GLU:OE1	45:LI:257:THR:OG1	2.29	0.48
45:LK:329:ASN:HD21	46:LN:208:TYR:HE2	1.61	0.48
46:LL:31:ASP:OD2	46:LL:37:HIS:ND1	2.47	0.48
46:LL:99:ASN:HA	46:LL:142:GLY:H	1.78	0.48
45:MC:377:MET:SD	45:MC:379:SER:HB2	2.54	0.48
46:MN:268:ILE:HG22	46:MN:368:VAL:HG22	1.96	0.48
45:NC:77:GLU:OE2	46:ND:243:PRO:HG3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NG:386:GLU:O	45:NG:390:ARG:HG2	2.14	0.48
45:NI:69:ASP:OD1	45:NI:70:LEU:N	2.47	0.48
45:NI:136:LEU:HD22	45:NI:169:PHE:HE2	1.79	0.48
46:NJ:201:VAL:O	46:NJ:202:ILE:HD13	2.14	0.48
45:NK:276:ILE:HD11	45:NK:283:HIS:CG	2.49	0.48
45:NM:328:VAL:O	45:NM:332:ILE:HG12	2.14	0.48
45:OC:2:ARG:HG3	45:OC:133:GLN:CD	2.38	0.48
45:OE:328:VAL:O	45:OE:332:ILE:HG12	2.14	0.48
45:OI:183:GLU:N	45:OI:184:PRO:HD2	2.28	0.48
45:OK:89:PRO:HG2	45:PK:280:LYS:HD3	1.95	0.48
45:OM:221:ARG:HH21	46:ON:322:SER:HG	1.54	0.48
46:ON:105:HIS:CD2	46:ON:150:LEU:HB2	2.49	0.48
46:ON:199:CYS:C	46:ON:200:MET:HE2	2.39	0.48
46:PB:100:ASN:HD22	46:PB:103:LYS:HB2	1.78	0.48
45:PE:399:TYR:O	45:PE:402:ARG:NH1	2.45	0.48
46:PH:153:SER:HB3	46:PH:154:LYS:NZ	2.29	0.48
46:PJ:105:HIS:CE1	46:PJ:150:LEU:HD12	2.49	0.48
46:PL:1:MET:N	46:PL:3:GLU:OE2	2.33	0.48
46:PN:274:THR:HG21	46:PN:282:ARG:NH2	2.28	0.48
45:QA:32:PRO:HB3	45:QA:83:TYR:HE1	1.79	0.48
45:QA:288:VAL:HG11	45:QA:327:ASP:HB3	1.96	0.48
46:QB:116:VAL:HA	46:QB:119:VAL:HG12	1.95	0.48
46:QH:65:LEU:HD22	46:QH:90:PHE:CE1	2.49	0.48
45:QM:79:ARG:NH2	45:QM:89:PRO:O	2.45	0.48
46:RF:20:PHE:CD2	46:RF:21:TRP:HD1	2.32	0.48
45:RG:263:PRO:HD3	46:RH:396:HIS:CE1	2.49	0.48
46:RH:139:LEU:HD13	46:RH:168:SER:HB3	1.95	0.48
45:RK:260:VAL:HG23	46:RL:397:TRP:HZ2	1.78	0.48
46:SB:322:SER:HB2	45:SC:222:PRO:O	2.14	0.48
45:SC:214:ARG:HA	45:SC:214:ARG:NH1	2.28	0.48
46:SF:1:MET:HE2	46:SF:1:MET:HA	1.95	0.48
46:SH:208:TYR:HE1	46:SH:225:LEU:HD11	1.78	0.48
46:SJ:5:VAL:HG12	46:SJ:62:ARG:HD3	1.95	0.48
46:SJ:190:HIS:CE1	46:SJ:414:ASN:HD22	2.32	0.48
46:SN:237:THR:HG23	46:SN:241:ARG:HH21	1.77	0.48
46:TD:66:MET:HE3	46:TD:147:MET:HG3	1.95	0.48
46:TD:325:GLU:HA	46:TD:328:GLU:HG2	1.96	0.48
46:TD:372:THR:HA	46:TD:422:TYR:HE2	1.79	0.48
45:TE:3:GLU:OE2	45:TE:131:GLY:N	2.44	0.48
46:TJ:23:VAL:HG11	46:TJ:230:SER:HB3	1.96	0.48
46:TJ:154:LYS:HA	46:TJ:157:GLU:OE1	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UB:97:ALA:HB3	46:UB:143:THR:HB	1.95	0.48
46:UB:284:LEU:HA	46:UB:288:GLU:OE2	2.14	0.48
45:UG:36:MET:HE1	45:UG:38:SER:C	2.38	0.48
46:UH:290:THR:HA	46:UH:293:MET:HG2	1.95	0.48
45:UK:205:ASP:OD1	45:UK:303:ALA:HA	2.14	0.48
46:UN:87:PRO:HA	46:UN:90:PHE:CD2	2.47	0.48
45:VA:182:VAL:HG22	45:VA:185:TYR:HB2	1.94	0.48
46:VB:67:ASP:OD1	46:VB:68:LEU:N	2.46	0.48
46:VD:3:GLU:HB3	46:VD:49:VAL:HA	1.95	0.48
46:VD:9:GLY:HA2	46:VD:66:MET:O	2.14	0.48
46:VD:21:TRP:CZ2	46:VD:63:ALA:HB2	2.49	0.48
46:VD:54:ALA:HB3	46:VD:58:ARG:HG2	1.96	0.48
45:VE:223:THR:HA	46:VF:322:SER:HB2	1.95	0.48
45:VG:135:PHE:HB2	45:VG:166:LYS:HG2	1.96	0.48
45:VG:301:MET:CE	45:VG:307:PRO:HD3	2.39	0.48
46:VH:257:LEU:HD11	46:VH:314:SER:HB2	1.95	0.48
46:VJ:72:THR:O	46:VJ:75:SER:OG	2.24	0.48
46:VJ:406:MET:O	46:VJ:410:GLU:HG2	2.13	0.48
45:VK:427:ALA:HA	45:VK:430:LYS:NZ	2.28	0.48
46:VL:20:PHE:O	46:VL:24:ILE:HG12	2.13	0.48
46:VL:282:ARG:HG2	46:VL:282:ARG:HH11	1.79	0.48
46:VL:342:VAL:HG13	46:VL:345:ILE:HG22	1.95	0.48
46:WB:222:TYR:O	46:WB:226:ASN:ND2	2.29	0.48
45:WE:231:ILE:O	45:WE:235:ILE:HG12	2.14	0.48
45:WE:414:GLU:CD	45:WE:416:GLY:H	2.21	0.48
46:WF:170:VAL:HG22	46:WF:202:ILE:O	2.14	0.48
45:WG:251:ASP:OD2	45:WG:252:ILE:N	2.47	0.48
46:WJ:12:CYS:O	46:WJ:16:ILE:HG12	2.14	0.48
45:WK:261:PRO:HA	46:WN:394:PHE:CD2	2.49	0.48
46:WL:304:ASP:OD1	46:WL:306:ARG:NH1	2.46	0.48
45:WM:221:ARG:NH1	46:WN:325:GLU:OE1	2.46	0.48
46:WN:9:GLY:HA2	46:WN:66:MET:O	2.13	0.48
46:WN:271:ALA:HB3	46:WN:365:VAL:HB	1.96	0.48
4:0D:38:ILE:HB	4:0D:39:PRO:HD3	1.96	0.47
5:0E:140:GLU:OE2	5:0E:141:GLN:HG3	2.14	0.47
6:0F:64:TYR:CE2	6:0F:66:SER:HB3	2.48	0.47
6:0F:86:ARG:HH21	45:EE:82:THR:HB	1.79	0.47
7:0G:30:ASP:HA	7:0G:33:GLN:NE2	2.29	0.47
8:0H:391:LYS:HA	8:0H:391:LYS:CE	2.44	0.47
9:0N:98:GLU:HG2	9:0N:98:GLU:O	2.14	0.47
9:0N:245:LYS:HA	9:0N:264:ARG:NH2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:0Q:103:PHE:HD1	10:0Q:119:CYS:HB2	1.79	0.47
11:0S:144:PRO:HB2	11:0S:159:VAL:HB	1.96	0.47
12:0T:231:GLU:HB3	12:0T:235:THR:HG23	1.96	0.47
16:1B:15:LYS:NZ	16:1B:92:THR:OG1	2.46	0.47
4:1D:221:PRO:HD2	4:1D:222:ASN:N	2.29	0.47
5:1E:5:LEU:HD21	5:1E:70:CYS:SG	2.54	0.47
5:1E:19:ARG:HH12	5:1E:55:ASN:C	2.22	0.47
17:1F:44:LEU:HD22	8:1H:91:GLN:NE2	2.29	0.47
7:1G:171:THR:HA	7:1G:176:HIS:NE2	2.29	0.47
8:1H:338:GLU:HA	8:1H:341:GLU:HG2	1.96	0.47
18:1I:141:PHE:CE2	46:KF:43:GLN:HG3	2.49	0.47
20:1K:234:ASP:O	20:1K:238:LYS:HG2	2.14	0.47
11:1S:11:THR:O	11:1S:15:ILE:HG12	2.14	0.47
11:1S:267:LYS:HG3	10:2Q:35:LYS:HZ1	1.78	0.47
12:1T:127:GLU:O	45:AC:339:ARG:NH2	2.47	0.47
13:1U:338:THR:HG22	13:1U:347:TRP:HE1	1.78	0.47
14:1V:122:LYS:HZ3	46:LL:390:ARG:HA	1.79	0.47
15:1X:129:ILE:C	15:1X:133:LYS:HZ3	2.22	0.47
27:2C:249:LEU:HB2	27:2C:287:PHE:HE1	1.79	0.47
5:2E:81:PHE:HA	5:2E:84:PHE:HD2	1.78	0.47
21:2L:396:ASN:O	21:2L:400:LYS:HG2	2.14	0.47
21:2L:624:GLU:HA	21:2L:627:ILE:HG12	1.95	0.47
21:2L:784:ASP:OD1	21:2L:785:LEU:N	2.46	0.47
22:2M:25:LEU:HD12	22:2M:36:MET:HE2	1.96	0.47
9:2N:88:ASN:HD21	9:2N:228:GLU:CD	2.22	0.47
9:2N:187:TYR:HB3	9:2N:193:ARG:HA	1.96	0.47
11:2S:186:ARG:O	11:2S:190:ILE:HD12	2.14	0.47
12:2T:73:GLU:HG2	12:2T:129:ILE:HG22	1.96	0.47
13:2U:64:SER:HB3	13:2U:110:PHE:HD2	1.79	0.47
16:3B:85:PHE:O	16:3B:88:MET:HG2	2.14	0.47
5:3E:88:ILE:HG23	5:3E:169:SER:OG	2.14	0.47
5:3E:186:LYS:HG3	5:3E:191:VAL:HG23	1.96	0.47
14:3V:185:LEU:O	14:3V:189:GLU:HG2	2.14	0.47
36:5C:163:ALA:HB1	45:NK:279:GLU:O	2.14	0.47
37:5E:165:PRO:HD2	37:5E:166:ARG:HH11	1.78	0.47
34:5R:231:TYR:HA	34:5R:234:VAL:HG12	1.95	0.47
34:5R:264:ASP:HB3	34:5R:269:GLY:HA3	1.96	0.47
34:5R:322:THR:OG1	34:5R:324:LYS:HG2	2.14	0.47
35:5S:148:LYS:O	35:5S:152:THR:HG23	2.14	0.47
39:6F:43:GLU:OE1	39:6F:56:LEU:HA	2.13	0.47
40:6G:207:TYR:HD2	46:VF:306:ARG:HG3	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:6H:242:LYS:O	41:6H:244:SER:N	2.47	0.47
41:6H:352:LYS:HD2	41:6H:353:ALA:N	2.28	0.47
10:6Q:103:PHE:HE1	10:6Q:144:TYR:HE1	1.62	0.47
34:6R:318:TYR:OH	46:CN:274:THR:N	2.47	0.47
45:AC:2:ARG:HB3	45:AC:133:GLN:HE22	1.79	0.47
45:AC:141:VAL:HG11	45:AC:172:TYR:HA	1.94	0.47
46:AD:256:ASN:HD21	46:AD:350:LYS:HD3	1.78	0.47
46:AD:281:TYR:OH	46:MD:83:GLN:O	2.32	0.47
45:AE:256:GLN:OE1	45:AE:256:GLN:N	2.44	0.47
46:AF:190:HIS:CD2	46:AF:411:ALA:HA	2.49	0.47
45:AG:326:LYS:HD3	46:AJ:208:TYR:CD1	2.46	0.47
46:AL:281:TYR:OH	46:ML:83:GLN:O	2.25	0.47
45:AM:171:ILE:HG23	45:AM:204:LEU:O	2.14	0.47
45:AM:319:TYR:HB3	45:AM:323:VAL:HG11	1.96	0.47
46:AN:382:ALA:HB2	46:AN:415:MET:HE1	1.96	0.47
45:BC:390:ARG:HG3	45:BC:390:ARG:HH11	1.79	0.47
46:BD:19:LYS:HG3	46:BD:226:ASN:HB3	1.95	0.47
46:BD:362:LYS:HA	46:BD:362:LYS:HE2	1.94	0.47
45:BG:183:GLU:N	45:BG:184:PRO:HD2	2.29	0.47
46:BH:166:THR:HG21	46:BH:192:LEU:HD11	1.96	0.47
46:BH:335:ASN:HB2	46:BH:336:LYS:HZ2	1.77	0.47
45:BI:254:GLU:HA	45:BI:257:THR:HG23	1.95	0.47
46:BJ:257:LEU:HD11	46:BJ:314:SER:HB2	1.96	0.47
45:CG:187:SER:O	45:CG:191:THR:HG23	2.13	0.47
45:CG:328:VAL:O	45:CG:332:ILE:HD12	2.13	0.47
46:CH:167:PHE:CE1	46:CH:233:MET:HE1	2.49	0.47
46:CH:306:ARG:NH1	46:CH:340:TYR:HD2	2.12	0.47
46:CJ:228:LEU:HD12	46:CJ:300:MET:HE1	1.96	0.47
45:DA:231:ILE:O	45:DA:235:ILE:HG12	2.14	0.47
46:DB:21:TRP:CZ2	46:DB:63:ALA:HB2	2.49	0.47
45:DE:271:SER:OG	45:DE:301:MET:HG2	2.14	0.47
46:DH:175:VAL:HG22	46:DH:205:GLU:HG3	1.96	0.47
45:DK:183:GLU:N	45:DK:184:PRO:HD2	2.29	0.47
46:EB:65:LEU:O	46:EB:66:MET:HE2	2.14	0.47
46:EB:246:LEU:HD11	45:EC:224:TYR:HE2	1.78	0.47
46:EL:10:GLY:O	46:EL:14:ASN:ND2	2.47	0.47
45:EM:258:ASN:ND2	45:EM:352:LYS:HE3	2.29	0.47
46:FF:190:HIS:NE2	46:FF:410:GLU:OE1	2.47	0.47
45:FG:221:ARG:HH22	46:FH:321:MET:HB2	1.79	0.47
45:FG:265:ILE:HG22	45:FG:380:ASN:HD21	1.79	0.47
46:FJ:284:LEU:HG	46:FJ:363:MET:HE3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FN:244:GLY:HA3	46:FN:354:CYS:HA	1.96	0.47
45:GC:68:LEU:HD21	45:GC:118:CYS:SG	2.54	0.47
45:GG:98:ASP:OD1	45:GG:99:ALA:N	2.47	0.47
45:HC:183:GLU:N	45:HC:184:PRO:HD2	2.28	0.47
46:HF:21:TRP:CZ3	46:HF:61:PRO:HB3	2.49	0.47
45:HM:11:GLN:HG3	45:HM:74:VAL:HG11	1.96	0.47
45:HM:119:LEU:HA	45:HM:122:ILE:HD12	1.95	0.47
46:HN:316:LEU:HD23	46:HN:352:SER:HB2	1.96	0.47
46:IB:47:ILE:HG12	46:IB:51:TYR:HB2	1.95	0.47
46:IB:136:THR:HG22	46:IB:167:PHE:HD2	1.79	0.47
46:IB:221:THR:HG23	46:IB:224:ASP:H	1.78	0.47
46:ID:290:THR:HA	46:ID:293:MET:HE2	1.96	0.47
46:IF:145:SER:OG	46:IF:188:SER:HB3	2.14	0.47
45:IG:252:ILE:HD12	45:IG:252:ILE:H	1.79	0.47
45:II:11:GLN:OE1	46:IJ:247:ASN:ND2	2.47	0.47
46:IJ:2:ARG:HB3	46:IJ:131:GLN:OE1	2.14	0.47
45:IK:208:ALA:O	45:IK:212:ILE:HG12	2.14	0.47
46:IL:65:LEU:HD22	46:IL:90:PHE:HE1	1.78	0.47
46:JH:86:ARG:NH2	46:JH:88:ASP:OD2	2.46	0.47
46:JJ:183:TYR:O	46:JJ:187:LEU:HD23	2.14	0.47
46:JN:5:VAL:HG11	46:JN:123:GLU:OE1	2.14	0.47
46:KB:107:THR:HG1	46:KB:108:GLU:CD	2.21	0.47
46:KB:114:ASP:OD1	46:KB:115:SER:N	2.46	0.47
46:KD:395:LEU:O	46:KD:399:THR:HG23	2.13	0.47
45:KE:296:PHE:HE1	45:KE:377:MET:SD	2.37	0.47
46:KF:135:ILE:O	46:KF:166:THR:HA	2.14	0.47
45:KG:89:PRO:HB2	45:LG:280:LYS:HE2	1.95	0.47
46:KH:382:ALA:HB2	46:KH:415:MET:HE1	1.96	0.47
45:KK:224:TYR:HA	45:KK:227:LEU:HD12	1.95	0.47
45:KM:398:MET:HE1	46:KN:346:PRO:HD2	1.96	0.47
46:KN:423:GLN:O	46:KN:426:GLN:HG3	2.13	0.47
45:LA:223:THR:HG22	45:LA:224:TYR:H	1.79	0.47
46:LB:233:MET:O	46:LB:236:VAL:HG12	2.14	0.47
46:LF:173:PRO:HG2	46:LF:380:ARG:HD2	1.95	0.47
46:LN:337:ASN:HB3	46:LN:340:TYR:CD2	2.48	0.47
45:MA:328:VAL:HG11	45:MA:353:VAL:HG21	1.95	0.47
46:MD:190:HIS:CD2	46:MD:411:ALA:HA	2.49	0.47
46:MF:267:MET:HE1	46:MF:305:PRO:HB3	1.96	0.47
45:MG:254:GLU:OE1	45:MG:258:ASN:ND2	2.45	0.47
45:MI:175:PRO:HG2	45:MI:176:GLN:OE1	2.15	0.47
46:ML:260:PHE:HB2	46:ML:263:LEU:HD13	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MM:102:ASN:ND2	45:MM:105:ARG:HG3	2.28	0.47
45:NA:174:SER:HB2	45:NA:177:VAL:O	2.13	0.47
46:ND:293:MET:HE1	46:ND:317:PHE:CE1	2.46	0.47
45:NE:258:ASN:HB3	45:NE:352:LYS:HZ2	1.78	0.47
45:NI:221:ARG:NE	46:NJ:325:GLU:OE2	2.47	0.47
45:NK:186:ASN:OD1	45:NK:187:SER:N	2.47	0.47
45:NK:394:LYS:HZ1	46:NL:346:PRO:HG2	1.79	0.47
45:NM:19:ALA:O	45:NM:22:GLU:HG2	2.13	0.47
46:NN:42:LEU:HA	46:NN:45:GLU:HG2	1.96	0.47
46:NN:405:GLU:CD	46:NN:405:GLU:H	2.22	0.47
45:OA:253:THR:HG23	46:OD:98:GLY:HA2	1.95	0.47
46:OD:182:PRO:HG2	46:OD:388:MET:HG3	1.95	0.47
46:OF:222:TYR:HD2	49:OF:502:GDP:C6	2.31	0.47
45:OG:224:TYR:HE2	47:OG:501:GTP:C5	2.31	0.47
46:OH:326:VAL:O	46:OH:330:MET:HG2	2.13	0.47
45:OK:371:VAL:HG12	45:OK:373:ARG:H	1.79	0.47
46:PB:58:ARG:NH2	46:PB:84:LEU:HA	2.24	0.47
45:PC:175:PRO:HB2	45:PC:176:GLN:OE1	2.13	0.47
45:PC:242:LEU:HD11	45:PC:252:ILE:HG23	1.95	0.47
45:PC:286:LEU:O	45:PC:373:ARG:NH2	2.46	0.47
46:PD:389:PHE:HZ	46:PD:405:GLU:HB2	1.77	0.47
45:PM:5:ILE:HG22	45:PM:64:ARG:HG2	1.96	0.47
45:QA:251:ASP:HB2	45:QA:254:GLU:HG3	1.95	0.47
45:QA:292:THR:HG21	45:QA:331:SER:HB3	1.96	0.47
46:QB:156:ARG:NH2	46:QB:160:PRO:O	2.47	0.47
45:QC:118:CYS:O	45:QC:122:ILE:HG12	2.14	0.47
45:QC:296:PHE:HE2	45:QC:335:ILE:HD13	1.78	0.47
45:QE:20:CYS:HA	45:QE:232:ALA:HB1	1.95	0.47
45:QE:70:LEU:HD13	45:QE:145:THR:OG1	2.13	0.47
46:QL:286:VAL:CG1	46:QL:287:PRO:HD3	2.44	0.47
45:QM:296:PHE:CE1	45:QM:377:MET:HG3	2.48	0.47
46:RB:175:VAL:HG22	46:RB:205:GLU:HG2	1.96	0.47
45:RC:17:GLY:HA2	45:RC:20:CYS:SG	2.53	0.47
45:RE:9:VAL:HG22	45:RE:146:GLY:HA2	1.96	0.47
45:RE:55:GLU:CD	45:RE:57:GLY:H	2.22	0.47
45:RI:265:ILE:HG12	45:RI:432:TYR:HE2	1.78	0.47
46:RJ:326:VAL:O	46:RJ:330:MET:HG2	2.14	0.47
45:RM:288:VAL:HA	45:RM:291:ILE:HG12	1.95	0.47
46:RN:201:VAL:HG23	46:RN:301:CYS:SG	2.54	0.47
45:SE:255:PHE:O	45:SE:259:LEU:HB2	2.14	0.47
45:SG:255:PHE:HE1	45:SG:318:MET:HE1	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SI:317:MET:HE2	45:SI:319:TYR:CZ	2.48	0.47
46:SJ:344:TRP:CG	45:SK:401:LYS:HZ3	2.32	0.47
45:SK:32:PRO:O	45:SK:85:GLN:NE2	2.47	0.47
46:TB:322:SER:OG	45:TC:221:ARG:NH1	2.47	0.47
46:TD:39:ASP:OD1	46:TD:40:SER:N	2.47	0.47
46:TF:67:ASP:OD1	46:TF:68:LEU:N	2.46	0.47
46:TF:318:ARG:HH11	46:TF:358:PRO:HG3	1.78	0.47
45:TG:261:PRO:HB2	45:TG:265:ILE:HD11	1.96	0.47
46:TJ:7:ILE:HG23	46:TJ:64:ILE:HB	1.96	0.47
46:TJ:362:LYS:N	46:TJ:362:LYS:HD2	2.29	0.47
46:TL:268:ILE:HG22	46:TL:368:VAL:HG22	1.96	0.47
45:TM:1:MET:O	45:TM:131:GLY:HA3	2.14	0.47
45:TM:288:VAL:HG12	45:TM:373:ARG:HE	1.77	0.47
45:UC:231:ILE:O	45:UC:235:ILE:HG12	2.14	0.47
46:UD:128:ASP:OD1	46:UD:129:CYS:N	2.46	0.47
46:UF:189:VAL:HA	46:UF:192:LEU:HB2	1.96	0.47
46:UF:226:ASN:ND2	49:UF:501:GDP:HN1	2.08	0.47
46:UF:260:PHE:HB2	46:UF:263:LEU:HD23	1.95	0.47
45:UI:55:GLU:O	45:VG:285:GLN:NE2	2.46	0.47
46:UJ:154:LYS:O	46:UJ:157:GLU:HG2	2.13	0.47
46:UJ:380:ARG:HA	46:UJ:383:GLU:CD	2.39	0.47
45:UK:19:ALA:HA	45:UK:22:GLU:OE1	2.14	0.47
45:UK:148:GLY:O	45:UK:152:LEU:HG	2.14	0.47
46:VB:28:HIS:C	46:VB:43:GLN:HE21	2.23	0.47
46:VB:119:VAL:HA	46:VB:122:LYS:HG2	1.96	0.47
46:VD:65:LEU:HD22	46:VD:90:PHE:CE1	2.48	0.47
45:VG:121:ARG:HA	45:VG:124:LYS:HZ2	1.79	0.47
46:VH:201:VAL:O	46:VH:202:ILE:HD13	2.14	0.47
45:VI:2:ARG:O	45:VI:51:THR:HA	2.14	0.47
45:VK:280:LYS:CG	45:VK:283:HIS:HB2	2.44	0.47
46:VL:52:ASN:OD1	46:VL:62:ARG:NH2	2.48	0.47
45:WA:33:ASP:HA	45:WA:85:GLN:HE21	1.79	0.47
45:WC:268:MET:HE2	45:WC:378:ILE:HG22	1.95	0.47
45:WC:387:VAL:HA	45:WC:390:ARG:HG2	1.96	0.47
46:WD:252:LYS:O	46:WD:256:ASN:HB2	2.13	0.47
45:WE:27:GLU:HB3	45:WE:361:THR:HG21	1.96	0.47
46:WH:45:GLU:O	46:WH:46:ARG:HD2	2.14	0.47
46:WH:105:HIS:CE1	46:WH:150:LEU:HD12	2.49	0.47
46:WJ:210:ILE:O	46:WJ:214:THR:HG22	2.14	0.47
46:WJ:215:LEU:O	46:WJ:215:LEU:HD23	2.13	0.47
45:WK:122:ILE:HG21	45:WK:157:LEU:HD11	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WK:331:SER:O	45:WK:335:ILE:HG12	2.14	0.47
1:0A:130:SER:HB2	1:0A:131:ILE:HD12	1.96	0.47
2:0B:59:VAL:O	2:0B:61:ARG:NH1	2.46	0.47
2:0B:294:ILE:HG22	46:KL:227:HIS:ND1	2.29	0.47
4:0D:47:SER:HA	46:DB:53:GLU:HG2	1.96	0.47
10:0Q:14:LEU:HB2	10:0Q:25:TRP:NE1	2.29	0.47
12:0T:62:VAL:HA	12:0T:146:MET:HB3	1.94	0.47
15:0X:70:TYR:O	15:0X:74:THR:HG23	2.14	0.47
16:1B:449:ASP:O	16:1B:452:ARG:N	2.47	0.47
17:1F:17:LYS:HD3	17:1F:17:LYS:C	2.40	0.47
11:1S:150:GLN:NE2	45:WC:162:GLY:HA3	2.29	0.47
11:1S:180:GLU:HG2	11:1S:185:TYR:CB	2.43	0.47
13:1U:308:GLU:C	13:1U:309:LYS:HD3	2.39	0.47
14:1V:186:HIS:ND1	14:1V:189:GLU:OE2	2.37	0.47
15:1X:81:ARG:NH2	46:MF:276:ARG:HB2	2.24	0.47
1:2A:80:LYS:HD3	34:5R:73:PRO:HB2	1.96	0.47
4:2D:75:ASP:CA	46:EJ:362:LYS:HE3	2.43	0.47
5:2E:47:GLU:O	5:2E:50:ILE:HG22	2.14	0.47
5:2E:179:ASP:OD1	5:2E:183:GLN:NE2	2.40	0.47
29:2G:39:LYS:HD2	29:2G:40:TYR:CD2	2.49	0.47
31:2I:96:TRP:HA	46:FF:125:GLU:HG3	1.95	0.47
31:2I:130:PHE:O	31:2I:132:ARG:NH1	2.47	0.47
21:2L:558:LEU:HB2	21:2L:563:PHE:CE1	2.49	0.47
21:2L:836:GLU:O	21:2L:838:LYS:HD2	2.14	0.47
23:2O:394:GLU:OE1	46:VD:362:LYS:HE2	2.14	0.47
23:2O:395:PHE:CE2	23:2O:399:ILE:HD11	2.50	0.47
23:2O:431:ILE:O	23:2O:434:ASN:OD1	2.32	0.47
11:2S:156:ILE:HD11	11:2S:188:LEU:HA	1.96	0.47
12:2T:74:ILE:HD12	45:MG:159:VAL:CG2	2.44	0.47
1:3A:130:SER:C	1:3A:132:ASP:H	2.22	0.47
16:3B:265:ASP:HA	16:3B:268:ILE:HG22	1.95	0.47
31:3I:205:ILE:HG22	31:3I:205:ILE:O	2.14	0.47
31:3I:278:MET:HG2	31:3I:278:MET:O	2.14	0.47
23:3O:369:LEU:HD21	45:UI:372:MET:HE2	1.95	0.47
25:3R:48:LEU:O	25:3R:200:ASN:ND2	2.47	0.47
25:3R:263:VAL:HG21	25:3R:271:LEU:HG	1.96	0.47
15:3X:119:ASN:O	15:3X:123:ASN:ND2	2.47	0.47
27:4C:123:HIS:CD2	27:4C:125:PHE:HB3	2.50	0.47
27:4C:157:PHE:HE1	27:4C:173:TYR:CD2	2.31	0.47
34:4R:379:LYS:NZ	34:4R:381:PHE:HE2	2.10	0.47
37:5E:164:LYS:H	37:5E:165:PRO:CD	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:7R:318:TYR:CE1	46:CB:273:LEU:HA	2.49	0.47
45:AC:377:MET:SD	45:AC:379:SER:HB3	2.54	0.47
45:AG:63:PRO:HG2	45:AG:86:LEU:HD21	1.95	0.47
45:AI:132:LEU:HG	45:AI:164:LYS:NZ	2.29	0.47
45:AI:265:ILE:HG13	45:AI:380:ASN:HD21	1.78	0.47
46:AL:116:VAL:O	46:AL:120:VAL:HG23	2.13	0.47
45:BA:221:ARG:NE	46:BB:322:SER:OG	2.24	0.47
45:BC:76:ASP:O	45:BC:80:THR:HG23	2.13	0.47
46:BN:409:THR:O	46:BN:412:GLU:HG3	2.13	0.47
45:CA:184:PRO:O	45:CA:188:ILE:HG12	2.14	0.47
45:CC:167:LEU:HG	45:CC:200:VAL:HB	1.95	0.47
46:CH:203:ASP:O	46:CH:207:LEU:HG	2.14	0.47
46:CL:99:ASN:HD22	46:CL:142:GLY:H	1.63	0.47
45:CM:384:ILE:O	45:CM:387:VAL:HG22	2.14	0.47
45:DA:141:VAL:HG22	45:DA:187:SER:HA	1.96	0.47
45:DA:346:TRP:CD1	46:DB:391:ARG:HG3	2.48	0.47
46:DB:101:TRP:HE3	46:DB:403:MET:HE1	1.79	0.47
45:DI:335:ILE:HA	45:DI:338:LYS:NZ	2.29	0.47
46:DN:54:ALA:HB3	46:DN:58:ARG:HG2	1.96	0.47
45:EA:188:ILE:HD11	45:EA:391:LEU:HB3	1.96	0.47
45:EA:322:ASP:OD1	45:EA:373:ARG:NH1	2.47	0.47
45:EC:189:LEU:HD11	45:EC:418:PHE:HE1	1.79	0.47
45:EC:318:MET:HE2	45:EC:376:CYS:HB2	1.96	0.47
45:EC:338:LYS:HZ2	45:EC:340:THR:H	1.62	0.47
45:EI:10:GLY:O	45:EI:14:ILE:HG12	2.14	0.47
45:EM:164:LYS:HA	45:EM:164:LYS:HD2	1.71	0.47
46:EN:166:THR:HG21	46:EN:192:LEU:HD11	1.96	0.47
45:FG:88:HIS:ND1	45:FG:89:PRO:HD2	2.29	0.47
46:FJ:21:TRP:CZ3	46:FJ:61:PRO:HB3	2.49	0.47
45:FK:222:PRO:O	46:FL:322:SER:HB2	2.14	0.47
45:FK:256:GLN:NE2	45:FK:257:THR:HG23	2.29	0.47
46:FL:407:GLU:HA	46:FL:410:GLU:OE2	2.14	0.47
45:GA:238:LEU:HA	45:GA:318:MET:HE1	1.96	0.47
46:GB:326:VAL:HG12	46:GB:330:MET:HE2	1.95	0.47
45:GG:377:MET:SD	45:GG:379:SER:HB3	2.54	0.47
46:GH:2:ARG:HG3	46:GH:240:LEU:HD11	1.95	0.47
45:GI:210:TYR:OH	46:GJ:323:THR:OG1	2.06	0.47
46:GN:190:HIS:HE1	46:GN:410:GLU:HG2	1.79	0.47
45:HE:430:LYS:O	45:HE:433:GLU:HG3	2.14	0.47
46:HF:69:GLU:CD	46:HF:71:GLY:H	2.22	0.47
46:HH:226:ASN:HA	46:HH:229:VAL:HG12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HK:89:PRO:HG2	45:IK:280:LYS:HB2	1.95	0.47
45:IA:17:GLY:HA2	45:IA:20:CYS:SG	2.54	0.47
46:IB:316:LEU:HG	46:IB:352:SER:HB2	1.95	0.47
45:IC:272:TYR:HD2	45:IC:275:ILE:HD11	1.79	0.47
46:ID:164:MET:CE	46:ID:196:ALA:HA	2.44	0.47
46:ID:208:TYR:CE2	46:ID:225:LEU:HD11	2.49	0.47
45:IE:48:ALA:HB1	45:IE:243:ARG:HB2	1.96	0.47
46:IF:284:LEU:HB2	46:IF:362:LYS:NZ	2.29	0.47
46:IN:388:MET:HE3	46:IN:388:MET:HB2	1.81	0.47
45:JA:174:SER:HB2	45:JA:177:VAL:O	2.14	0.47
45:JG:147:SER:HB2	45:JG:190:SER:HB2	1.96	0.47
45:JG:301:MET:HE2	45:JG:307:PRO:HD3	1.96	0.47
46:JH:3:GLU:CD	46:JH:3:GLU:H	2.22	0.47
46:JN:293:MET:HE2	46:JN:367:PHE:HB2	1.96	0.47
46:KB:304:ASP:OD2	46:KB:306:ARG:NH2	2.42	0.47
45:KE:210:TYR:CE1	45:KE:227:LEU:HD11	2.48	0.47
45:KG:88:HIS:CE1	45:KG:90:GLU:HG2	2.49	0.47
45:KG:244:PHE:HB2	45:KG:356:ASN:HD21	1.78	0.47
45:KG:256:GLN:HB3	46:KJ:397:TRP:CH2	2.49	0.47
46:KJ:86:ARG:HG3	46:KJ:87:PRO:HD2	1.96	0.47
46:KJ:405:GLU:HA	46:KJ:408:PHE:HD2	1.79	0.47
45:KK:269:LEU:HD23	45:KK:384:ILE:HD11	1.95	0.47
46:KN:12:CYS:O	46:KN:16:ILE:HG12	2.14	0.47
46:KN:316:LEU:HD13	46:KN:352:SER:OG	2.13	0.47
45:LI:72:PRO:HD2	46:LJ:2:ARG:NH2	2.29	0.47
45:LI:319:TYR:HB3	45:LI:323:VAL:HG21	1.96	0.47
46:LJ:36:TYR:C	46:LJ:37:HIS:HD1	2.22	0.47
45:LK:180:ALA:HB3	45:LK:183:GLU:HG3	1.96	0.47
45:LM:150:GLY:O	45:LM:154:LEU:HG	2.14	0.47
45:ME:262:TYR:OH	46:MH:391:ARG:O	2.32	0.47
45:MG:71:GLU:OE2	46:MH:2:ARG:NH2	2.47	0.47
45:MI:265:ILE:HD11	45:MI:435:VAL:HG21	1.96	0.47
46:MJ:134:GLN:HA	46:MJ:165:GLU:O	2.14	0.47
46:MN:66:MET:HA	46:MN:91:VAL:HG23	1.96	0.47
45:NA:180:ALA:HA	46:NB:350:LYS:NZ	2.29	0.47
45:NA:268:MET:HG3	45:NA:380:ASN:HB2	1.96	0.47
46:NF:208:TYR:HE1	46:NF:225:LEU:HD11	1.79	0.47
45:NI:113:GLU:OE1	45:NI:113:GLU:N	2.47	0.47
45:OA:93:ILE:HD11	45:OA:121:ARG:HG3	1.95	0.47
46:OB:22:GLU:OE2	46:OB:81:PHE:HB2	2.13	0.47
45:OC:36:MET:SD	45:OC:37:PRO:HD2	2.55	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OC:256:GLN:HG2	46:OF:397:TRP:CH2	2.48	0.47
45:OE:3:GLU:HG3	45:OE:129:CYS:SG	2.54	0.47
45:OE:224:TYR:HD1	47:OF:501:GTP:C6	2.32	0.47
45:OG:141:VAL:HG11	45:OG:172:TYR:HD1	1.78	0.47
45:OG:169:PHE:CE2	45:OG:235:ILE:HD12	2.49	0.47
45:OI:250:VAL:HG13	45:OI:254:GLU:HB2	1.95	0.47
46:OJ:248:SER:HA	46:OJ:252:LYS:HD2	1.96	0.47
46:ON:20:PHE:O	46:ON:24:ILE:HD12	2.14	0.47
45:PA:30:ILE:HD11	45:PA:34:GLY:C	2.38	0.47
45:PA:308:ARG:NH1	45:PA:340:THR:O	2.48	0.47
46:PH:109:GLY:HA2	46:PH:147:MET:HE3	1.96	0.47
46:PH:294:PHE:CE2	46:PH:333:VAL:HG11	2.47	0.47
45:PI:121:ARG:HA	45:PI:121:ARG:NH1	2.30	0.47
46:PJ:113:ILE:HD13	46:PJ:150:LEU:HD22	1.96	0.47
46:PJ:376:GLU:HA	46:PJ:379:LYS:HG2	1.95	0.47
46:PL:68:LEU:HD13	46:PL:93:GLY:HA3	1.95	0.47
46:PL:205:GLU:HG2	46:PL:206:ALA:N	2.29	0.47
46:PL:406:MET:O	46:PL:410:GLU:HG2	2.13	0.47
46:PN:165:GLU:HG2	46:PN:250:LEU:HD21	1.96	0.47
46:QB:221:THR:HG23	46:QB:224:ASP:H	1.78	0.47
45:QC:56:THR:HG21	45:QC:60:LYS:HG3	1.96	0.47
45:QE:317:MET:N	45:QE:317:MET:SD	2.87	0.47
46:QF:66:MET:CE	46:QF:116:VAL:HG21	2.44	0.47
45:QG:141:VAL:HG11	45:QG:172:TYR:CD1	2.49	0.47
45:QI:352:LYS:NZ	46:QJ:179:VAL:H	2.07	0.47
46:QJ:69:GLU:CD	46:QJ:71:GLY:H	2.21	0.47
46:QJ:325:GLU:HA	46:QJ:328:GLU:HB3	1.96	0.47
46:QL:86:ARG:HH21	46:QL:87:PRO:CG	2.22	0.47
45:QM:237:SER:O	45:QM:318:MET:HE3	2.14	0.47
45:RC:133:GLN:O	45:RC:164:LYS:NZ	2.46	0.47
45:RC:284:GLU:HG2	45:RC:286:LEU:HD22	1.95	0.47
45:RC:401:LYS:HB2	45:RC:401:LYS:HE3	1.71	0.47
45:RE:252:ILE:HD12	45:RE:252:ILE:H	1.79	0.47
46:RH:11:GLN:HE21	49:RH:501:GDP:PA	2.37	0.47
46:RH:420:SER:O	46:RH:423:GLN:HG3	2.13	0.47
45:RI:211:ASP:O	45:RI:215:ARG:HG3	2.14	0.47
45:RK:112:LYS:HA	45:RK:115:VAL:HG12	1.96	0.47
45:RK:141:VAL:HG12	45:RK:171:ILE:O	2.13	0.47
45:RM:70:LEU:HA	45:RM:95:GLY:H	1.78	0.47
45:RM:174:SER:HB2	45:RM:177:VAL:O	2.14	0.47
45:SA:334:THR:O	45:SA:338:LYS:HG2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SB:39:ASP:OD1	46:SB:40:SER:N	2.47	0.47
46:SB:137:HIS:CD2	46:SB:148:GLY:HA3	2.49	0.47
45:SE:317:MET:HE2	45:SE:319:TYR:CE1	2.49	0.47
45:SG:248:LEU:HB2	45:SG:355:ILE:HG12	1.95	0.47
46:SH:257:LEU:HD21	46:SH:314:SER:HB2	1.96	0.47
45:SK:3:GLU:O	45:SK:133:GLN:N	2.36	0.47
45:SK:9:VAL:HG12	45:SK:68:LEU:HB2	1.95	0.47
46:SL:344:TRP:CZ3	45:SM:401:LYS:HD2	2.49	0.47
45:SM:242:LEU:HD11	45:SM:252:ILE:HG13	1.95	0.47
46:TB:1:MET:SD	46:TB:1:MET:N	2.88	0.47
46:TF:130:LEU:HB3	46:TF:162:ARG:HD2	1.95	0.47
46:TJ:383:GLU:HA	46:TJ:386:THR:HG22	1.95	0.47
45:TK:276:ILE:HD11	45:TK:280:LYS:HG3	1.95	0.47
46:UB:86:ARG:NE	46:UB:88:ASP:HB3	2.30	0.47
45:UC:207:GLU:HB3	45:UC:304:LYS:HE2	1.95	0.47
45:UG:183:GLU:N	45:UG:184:PRO:HD2	2.29	0.47
46:UH:6:HIS:O	46:UH:63:ALA:HA	2.14	0.47
45:UI:217:LEU:HB3	45:UI:219:ILE:HG12	1.96	0.47
46:UJ:113:ILE:HD13	46:UJ:150:LEU:HD22	1.94	0.47
45:UM:1:MET:O	45:UM:131:GLY:HA3	2.14	0.47
45:UM:346:TRP:HA	46:UN:390:ARG:HH12	1.78	0.47
46:UN:11:GLN:O	46:UN:15:GLN:HG2	2.13	0.47
46:VB:175:VAL:HG22	46:VB:205:GLU:OE2	2.14	0.47
45:VC:174:SER:OG	45:VC:206:ASN:OD1	2.32	0.47
45:VC:352:LYS:HB2	45:VC:352:LYS:HE2	1.67	0.47
46:VD:16:ILE:HD12	46:VD:229:VAL:HG11	1.95	0.47
46:VD:267:MET:HE2	46:VD:299:MET:SD	2.54	0.47
45:VE:205:ASP:HB3	45:VE:303:ALA:HA	1.95	0.47
45:VE:384:ILE:O	45:VE:387:VAL:HG22	2.14	0.47
46:VF:70:PRO:HA	46:VF:73:MET:SD	2.55	0.47
45:VG:183:GLU:N	45:VG:184:PRO:HD2	2.28	0.47
45:VG:260:VAL:H	46:VJ:397:TRP:HH2	1.62	0.47
45:VG:331:SER:O	45:VG:335:ILE:HG12	2.14	0.47
45:VI:88:HIS:CE1	45:VI:90:GLU:HG3	2.48	0.47
45:VI:271:SER:OG	45:VI:301:MET:HG2	2.14	0.47
45:VI:329:ASN:HA	45:VI:332:ILE:HG22	1.96	0.47
46:VJ:83:GLN:HE21	46:VJ:84:LEU:HD12	1.79	0.47
46:VJ:216:LYS:O	46:VJ:216:LYS:HG2	2.13	0.47
45:VM:288:VAL:HG11	45:VM:327:ASP:HB3	1.96	0.47
45:WA:51:THR:HG21	45:WA:243:ARG:HB3	1.96	0.47
46:WB:5:VAL:HG11	46:WB:123:GLU:HB3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:WB:150:LEU:HB2	46:WB:154:LYS:HZ3	1.79	0.47
45:WC:133:GLN:NE2	45:WC:242:LEU:HD21	2.27	0.47
45:WE:227:LEU:O	45:WE:231:ILE:HG12	2.14	0.47
46:WH:344:TRP:HE3	46:WH:345:ILE:HG23	1.78	0.47
45:WI:69:ASP:OD2	45:WI:75:ILE:HG12	2.13	0.47
45:WK:252:ILE:HA	45:WK:255:PHE:CD1	2.49	0.47
45:WK:319:TYR:HB3	45:WK:323:VAL:HG11	1.96	0.47
46:WL:285:THR:O	46:WL:289:LEU:HD23	2.13	0.47
45:WM:172:TYR:CE2	45:WM:203:MET:HE1	2.49	0.47
46:WN:68:LEU:HD21	46:WN:108:GLU:HG2	1.96	0.47
46:WN:397:TRP:CD1	46:WN:397:TRP:H	2.30	0.47
45:CE:67:PHE:HE2	45:CE:87:PHE:CE2	2.32	0.47
1:0A:136:ASN:ND2	46:AB:245:GLN:HE22	2.10	0.47
2:0B:142:HIS:O	2:0B:143:LYS:HG2	2.14	0.47
6:0F:52:PHE:O	6:0F:56:THR:HG23	2.14	0.47
6:0F:70:VAL:HG12	6:0F:75:ARG:HB2	1.96	0.47
8:0H:398:GLU:HG2	8:1H:72:LEU:HD11	1.95	0.47
10:0Q:50:MET:HE3	10:0Q:51:GLY:H	1.80	0.47
15:0X:80:MET:O	15:0X:83:MET:HB2	2.13	0.47
17:1F:38:VAL:HG22	8:1H:88:ARG:HH11	1.80	0.47
8:1H:179:LYS:O	8:1H:183:GLU:OE1	2.32	0.47
19:1J:50:LYS:HA	19:1J:53:LYS:HG2	1.95	0.47
19:1J:192:VAL:HG21	19:1J:197:HIS:HD2	1.79	0.47
20:1K:122:GLU:HG2	20:1K:123:LYS:N	2.29	0.47
24:1P:309:GLU:O	24:1P:312:THR:OG1	2.26	0.47
12:1T:7:PHE:HE2	12:1T:41:PHE:CD2	2.31	0.47
15:1X:50:GLU:O	15:1X:54:ARG:NH1	2.48	0.47
20:2K:433:LEU:HD11	45:GE:281:ALA:HB3	1.95	0.47
22:2M:245:VAL:HG22	22:2M:250:VAL:HG11	1.96	0.47
9:2N:2:HIS:CE1	9:2N:17:GLY:HA2	2.49	0.47
9:2N:62:TYR:HA	9:2N:277:ALA:HB3	1.95	0.47
23:2O:347:ASN:HA	23:2O:350:ASN:ND2	2.29	0.47
13:2U:483:ARG:HH11	13:2U:485:MET:HG3	1.79	0.47
13:2U:496:VAL:HG12	13:2U:507:THR:OG1	2.14	0.47
13:2U:605:PRO:O	13:2U:608:VAL:HG22	2.14	0.47
15:2X:33:ALA:O	15:2X:37:ARG:HB3	2.15	0.47
32:3D:17:ILE:HD12	32:3D:25:TYR:HD1	1.80	0.47
21:3L:150:ARG:HB3	21:3L:152:ILE:HG23	1.96	0.47
25:3R:158:LEU:HG	25:3R:166:TYR:HE1	1.78	0.47
12:3T:215:ASN:O	12:3T:216:LYS:HG3	2.13	0.47
13:3U:583:ILE:HG12	13:3U:590:VAL:HG22	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:3V:121:GLU:C	14:3V:122:LYS:HD2	2.40	0.47
15:3X:6:GLU:HB3	15:3X:10:ARG:NH1	2.28	0.47
15:3X:45:GLN:NE2	45:MM:282:TYR:CG	2.82	0.47
10:4Q:33:HIS:NE2	10:4Q:50:MET:HB3	2.28	0.47
10:4Q:71:ILE:HG22	10:4Q:73:LEU:H	1.80	0.47
34:4R:13:PRO:HA	46:LF:227:HIS:ND1	2.29	0.47
35:4S:144:ILE:O	35:4S:148:LYS:HG2	2.14	0.47
36:5D:97:LYS:HD2	36:5D:108:ARG:HG3	1.95	0.47
34:5R:487:GLU:HB3	34:5R:523:PHE:CZ	2.49	0.47
34:5R:574:ARG:HA	34:5R:574:ARG:CZ	2.44	0.47
39:6F:62:GLN:HG2	45:IE:84:ARG:HH22	1.78	0.47
34:7R:174:PHE:CE2	46:AD:80:PRO:HB3	2.48	0.47
34:7R:183:CYS:SG	34:7R:188:LYS:NZ	2.82	0.47
45:AA:288:VAL:HA	45:AA:291:ILE:HG22	1.97	0.47
46:AB:40:SER:H	46:AB:43:GLN:NE2	2.12	0.47
45:AC:222:PRO:HD2	46:AD:324:LYS:CG	2.40	0.47
45:AE:239:THR:HG23	45:AE:243:ARG:NH1	2.28	0.47
46:AF:32:PRO:HA	46:AF:84:LEU:HD11	1.95	0.47
46:AF:341:PHE:HB3	46:AF:348:ASN:HD21	1.79	0.47
46:AH:286:VAL:HG21	46:AH:325:GLU:OE2	2.14	0.47
45:AM:101:ASN:OD1	45:AM:143:GLY:HA2	2.14	0.47
45:AM:322:ASP:OD1	45:AM:373:ARG:NH1	2.43	0.47
46:AN:293:MET:HE2	46:AN:294:PHE:CE1	2.49	0.47
46:AN:387:ALA:HA	46:AN:390:ARG:HH11	1.79	0.47
46:BD:237:THR:HG22	46:BD:250:LEU:HD21	1.97	0.47
46:BF:389:PHE:HZ	46:BF:405:GLU:HG3	1.79	0.47
46:BH:325:GLU:O	46:BH:329:GLN:HG3	2.14	0.47
45:BK:324:VAL:HG11	46:BN:219:THR:OG1	2.14	0.47
45:CA:268:MET:CE	45:CA:378:ILE:HG13	2.44	0.47
46:CB:200:MET:HE1	46:CB:266:PHE:CD2	2.45	0.47
46:CD:201:VAL:HG22	46:CD:266:PHE:O	2.14	0.47
46:CF:251:ARG:NH2	45:CG:105:ARG:HH21	2.12	0.47
45:CI:356:ASN:OD1	45:CI:357:TYR:N	2.47	0.47
46:CL:398:TYR:O	46:CL:403:MET:HB2	2.14	0.47
46:CL:409:THR:O	46:CL:412:GLU:HG3	2.13	0.47
46:DB:167:PHE:HE2	46:DB:200:MET:HG3	1.79	0.47
45:DE:21:TRP:CZ2	45:DE:65:ALA:HB2	2.49	0.47
46:DJ:65:LEU:HD12	46:DJ:90:PHE:CE1	2.50	0.47
46:DJ:101:TRP:HB2	46:DJ:184:ASN:HB3	1.96	0.47
45:DK:1:MET:HE1	46:DL:94:GLN:NE2	2.22	0.47
45:DK:102:ASN:ND2	45:DK:407:TRP:O	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DL:169:VAL:HG12	46:DL:202:ILE:HB	1.95	0.47
45:DM:223:THR:HG23	45:DM:225:THR:H	1.78	0.47
46:EB:325:GLU:OE1	45:EC:221:ARG:HA	2.14	0.47
46:ED:139:LEU:HD22	46:ED:170:VAL:HG12	1.95	0.47
45:EE:259:LEU:HD21	45:EE:316:SER:HB2	1.97	0.47
45:EG:280:LYS:HA	45:EG:283:HIS:HD2	1.79	0.47
45:EI:102:ASN:ND2	45:EI:105:ARG:HG3	2.29	0.47
46:EL:222:TYR:CD1	49:EL:501:GDP:C6	3.02	0.47
45:FA:326:LYS:HD3	46:FD:208:TYR:CE1	2.48	0.47
46:FJ:58:ARG:HH12	46:GJ:280:GLN:NE2	2.12	0.47
46:FJ:150:LEU:HD21	46:FJ:154:LYS:HZ2	1.79	0.47
46:FL:7:ILE:HD12	46:FL:64:ILE:HB	1.96	0.47
46:FL:289:LEU:HD13	46:FL:365:VAL:HG23	1.96	0.47
45:GC:401:LYS:HZ1	46:GD:344:TRP:CG	2.32	0.47
46:GD:21:TRP:CZ3	46:GD:61:PRO:HB3	2.50	0.47
45:GE:53:PHE:O	45:GE:64:ARG:NE	2.45	0.47
45:GE:107:HIS:ND1	45:GE:107:HIS:O	2.47	0.47
46:GH:299:MET:HE1	46:GH:367:PHE:CE2	2.46	0.47
46:HB:38:GLY:HA3	46:HB:43:GLN:NE2	2.29	0.47
46:HD:210:ILE:O	46:HD:214:THR:OG1	2.29	0.47
45:HG:105:ARG:HG2	45:HG:411:GLU:CD	2.39	0.47
46:HJ:18:ALA:O	46:HJ:22:GLU:HG3	2.14	0.47
45:HM:172:TYR:HH	45:HM:191:THR:HG1	1.58	0.47
46:HN:97:ALA:HB3	46:HN:143:THR:HB	1.97	0.47
46:IB:299:MET:HE3	46:IB:301:CYS:N	2.30	0.47
46:IB:302:ALA:HB3	46:IB:377:MET:HE1	1.95	0.47
45:IE:200:VAL:HG13	45:IE:268:MET:HE2	1.95	0.47
45:II:326:LYS:HZ2	46:IL:212:PHE:HB2	1.79	0.47
46:IJ:210:ILE:HD11	46:IJ:298:ASN:HA	1.95	0.47
45:JA:258:ASN:OD1	46:JD:179:VAL:HG22	2.13	0.47
45:JI:96:LYS:HE2	45:JI:96:LYS:HA	1.95	0.47
46:JN:245:GLN:OE1	46:JN:246:LEU:HG	2.15	0.47
46:KB:374:ILE:O	46:KB:377:MET:HG3	2.15	0.47
45:KC:11:GLN:HG2	45:KC:74:VAL:HG11	1.95	0.47
45:KG:372:MET:HA	45:KG:372:MET:HE2	1.96	0.47
45:KI:346:TRP:CD1	46:KL:391:ARG:HG3	2.48	0.47
45:KK:262:TYR:HD2	45:KK:265:ILE:HD11	1.79	0.47
46:KL:206:ALA:O	46:KL:210:ILE:HG12	2.14	0.47
46:KL:386:THR:O	46:KL:390:ARG:HG3	2.14	0.47
46:LB:91:VAL:HG21	46:LB:116:VAL:HB	1.96	0.47
45:LC:221:ARG:HH12	46:LD:322:SER:H	1.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LC:324:VAL:HG23	45:LC:327:ASP:H	1.79	0.47
46:LD:11:GLN:O	46:LD:15:GLN:HG2	2.13	0.47
46:LD:159:TYR:HB3	46:LD:162:ARG:HG3	1.96	0.47
45:LI:279:GLU:H	45:LI:279:GLU:CD	2.22	0.47
46:LJ:36:TYR:CZ	46:LJ:44:LEU:HD21	2.49	0.47
46:LJ:186:THR:HG23	46:LJ:187:LEU:HD12	1.96	0.47
45:LK:11:GLN:NE2	45:LK:15:GLN:HE21	2.12	0.47
45:LK:31:GLN:HG2	45:LK:35:GLN:O	2.15	0.47
46:LL:203:ASP:OD2	46:LL:302:ALA:N	2.36	0.47
45:LM:209:ILE:HD11	45:LM:230:LEU:HB2	1.96	0.47
45:MC:56:THR:HG23	45:MC:58:ALA:H	1.79	0.47
46:MD:201:VAL:HG23	46:MD:301:CYS:SG	2.53	0.47
45:MI:288:VAL:HG11	45:MI:327:ASP:HB3	1.95	0.47
45:MK:260:VAL:HB	46:MN:397:TRP:CH2	2.49	0.47
46:ML:178:THR:HB	46:ML:181:GLU:HG3	1.96	0.47
46:MN:68:LEU:HD23	46:MN:143:THR:OG1	2.14	0.47
46:NB:152:ILE:HG22	46:NB:195:ASN:HB3	1.95	0.47
46:NB:285:THR:OG1	46:NB:288:GLU:OE1	2.24	0.47
45:NG:12:GLY:HA2	45:NG:15:GLN:NE2	2.30	0.47
45:NG:113:GLU:N	45:NG:113:GLU:OE1	2.44	0.47
45:NI:332:ILE:HD12	45:NI:351:PHE:CD2	2.49	0.47
45:NK:9:VAL:HG13	45:NK:139:ASN:HB3	1.97	0.47
46:NL:117:LEU:O	46:NL:121:ARG:HG3	2.14	0.47
45:NM:229:ARG:HH12	45:NM:367:ASP:H	1.62	0.47
46:NN:148:GLY:O	46:NN:152:ILE:HG12	2.14	0.47
46:OB:54:ALA:HA	46:PB:283:ALA:HB2	1.94	0.47
45:OE:152:LEU:O	45:OE:155:GLU:HG3	2.14	0.47
45:OM:183:GLU:N	45:OM:184:PRO:HD2	2.28	0.47
45:OM:297:GLU:HB2	45:OM:300:ASN:ND2	2.29	0.47
46:ON:238:CYS:SG	46:ON:241:ARG:NH2	2.87	0.47
45:PA:328:VAL:O	45:PA:332:ILE:HG12	2.14	0.47
45:PC:352:LYS:NZ	46:PF:178:THR:HA	2.29	0.47
46:PF:201:VAL:HG23	46:PF:301:CYS:SG	2.53	0.47
45:PI:87:PHE:HB3	45:PI:92:LEU:HD21	1.95	0.47
46:PJ:139:LEU:HD22	46:PJ:188:SER:OG	2.14	0.47
45:QA:370:LYS:HD3	45:QA:370:LYS:C	2.39	0.47
46:QD:42:LEU:HD13	46:QD:356:ILE:HD11	1.95	0.47
45:QE:288:VAL:HG11	45:QE:323:VAL:HG23	1.96	0.47
46:QF:116:VAL:HA	46:QF:119:VAL:HG22	1.96	0.47
46:QH:106:TYR:HE2	46:QH:403:MET:SD	2.37	0.47
46:QH:346:PRO:HG2	45:QI:394:LYS:NZ	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QJ:156:ARG:NH1	46:QJ:159:TYR:O	2.47	0.47
46:RB:32:PRO:HG3	46:RB:81:PHE:CE2	2.49	0.47
45:RG:265:ILE:O	45:RG:265:ILE:HG13	2.14	0.47
46:RH:249:ASP:OD1	46:RH:252:LYS:N	2.39	0.47
46:RJ:9:GLY:HA2	46:RJ:66:MET:O	2.14	0.47
45:RM:121:ARG:HA	45:RM:121:ARG:NH1	2.29	0.47
45:RM:271:SER:HB3	45:RM:377:MET:HE3	1.96	0.47
45:SG:20:CYS:O	45:SG:24:PHE:HD1	1.96	0.47
45:SG:21:TRP:CH2	45:SG:63:PRO:HB3	2.49	0.47
45:SG:36:MET:HE3	45:SG:36:MET:HA	1.96	0.47
45:SI:250:VAL:HG11	45:SI:318:MET:HE1	1.96	0.47
45:SK:164:LYS:NZ	45:SK:165:SER:OG	2.48	0.47
45:SK:348:PRO:HD2	46:SL:388:MET:HE2	1.96	0.47
45:SM:324:VAL:HG12	45:SM:326:LYS:HG3	1.95	0.47
46:SN:86:ARG:NE	46:SN:87:PRO:HD2	2.28	0.47
46:TB:27:GLU:OE2	46:TB:241:ARG:NH2	2.47	0.47
46:TB:152:ILE:HG23	46:TB:164:MET:HE2	1.96	0.47
45:TI:184:PRO:O	45:TI:188:ILE:HG12	2.15	0.47
45:TI:362:VAL:HG22	45:TI:370:LYS:HD2	1.94	0.47
46:TL:116:VAL:O	46:TL:119:VAL:HG12	2.14	0.47
46:TN:86:ARG:NH2	46:UN:278:SER:OG	2.45	0.47
45:UA:109:THR:HG22	45:UA:110:ILE:HG23	1.96	0.47
46:UB:116:VAL:O	46:UB:120:VAL:HG22	2.14	0.47
46:UF:3:GLU:HA	46:UF:49:VAL:HA	1.97	0.47
46:UF:154:LYS:O	46:UF:157:GLU:HG2	2.14	0.47
46:UF:342:VAL:HG13	46:UF:345:ILE:HG22	1.96	0.47
46:UH:180:VAL:HG12	46:UH:180:VAL:O	2.14	0.47
46:UL:5:VAL:HA	46:UL:62:ARG:HD3	1.97	0.47
46:UN:105:HIS:CE1	46:UN:150:LEU:HD12	2.49	0.47
45:VA:88:HIS:O	45:VA:91:GLN:HG2	2.14	0.47
45:VC:328:VAL:O	45:VC:332:ILE:HG12	2.14	0.47
46:VD:253:LEU:O	46:VD:257:LEU:HB2	2.14	0.47
46:VF:389:PHE:CZ	46:VF:405:GLU:HG3	2.47	0.47
45:VG:163:LYS:HD3	45:VG:163:LYS:N	2.29	0.47
45:VG:221:ARG:HH12	46:VH:325:GLU:H	1.62	0.47
46:VH:417:ASP:O	46:VH:421:GLU:HG2	2.14	0.47
45:VK:22:GLU:HG3	45:VK:83:TYR:HE1	1.78	0.47
46:VL:404:ASP:OD1	46:VL:406:MET:HG3	2.14	0.47
46:VN:101:TRP:CE3	46:VN:187:LEU:HD13	2.48	0.47
46:VN:187:LEU:HD11	46:VN:408:PHE:HE1	1.80	0.47
45:WA:235:ILE:O	45:WA:238:LEU:HG	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:WB:310:TYR:CD1	46:WB:371:SER:HB2	2.49	0.47
46:WD:8:GLN:HE21	46:WD:65:LEU:HD22	1.80	0.47
46:WD:114:ASP:OD1	46:WD:115:SER:N	2.47	0.47
45:WE:215:ARG:NH1	45:WE:299:ALA:HB1	2.27	0.47
45:WI:21:TRP:CH2	45:WI:63:PRO:HB3	2.49	0.47
45:WI:22:GLU:OE2	45:WI:83:TYR:HE2	1.96	0.47
45:WK:250:VAL:HG13	45:WK:254:GLU:HB2	1.96	0.47
45:WK:319:TYR:CE2	45:WK:328:VAL:HG22	2.48	0.47
45:WM:141:VAL:HG12	45:WM:171:ILE:O	2.13	0.47
46:WN:285:THR:OG1	46:WN:288:GLU:OE1	2.27	0.47
45:DC:141:VAL:HG11	45:DC:172:TYR:CD1	2.49	0.47
45:DC:223:THR:HG23	45:DC:225:THR:H	1.79	0.47
45:DC:310:GLY:HA3	45:DC:383:ALA:HB2	1.96	0.47
6:0F:58:GLU:OE2	6:0F:64:TYR:N	2.46	0.47
12:0T:223:ARG:HG3	12:0T:225:SER:H	1.79	0.47
16:1B:207:LEU:HD12	16:1B:208:ASN:N	2.30	0.47
5:1E:94:GLU:O	5:1E:97:LYS:HG3	2.15	0.47
17:1F:137:PHE:HE1	17:1F:139:PRO:HB3	1.78	0.47
8:1H:48:LEU:O	8:1H:51:ARG:HG2	2.14	0.47
19:1J:225:LYS:HG3	19:1J:226:THR:N	2.30	0.47
22:1M:274:ARG:NH2	22:1M:275:PRO:HG3	2.29	0.47
25:1R:510:PHE:O	25:1R:514:ILE:HG22	2.14	0.47
13:1U:393:SER:OG	13:1U:395:LYS:NZ	2.44	0.47
31:2I:62:ASN:HB2	31:2I:64:GLU:OE1	2.14	0.47
21:2L:520:VAL:HG21	21:2L:588:ILE:HG23	1.96	0.47
21:2L:887:LYS:HB2	21:2L:925:TYR:CD1	2.48	0.47
9:2N:1:MET:HB2	45:IA:96:LYS:N	2.30	0.47
9:2N:19:TRP:H	9:2N:19:TRP:CD1	2.31	0.47
9:2N:78:SER:O	9:2N:82:ASN:N	2.48	0.47
23:2O:215:LYS:HE2	23:2O:215:LYS:HA	1.97	0.47
24:2P:389:LEU:HD12	24:2P:390:LYS:HD3	1.97	0.47
25:2R:192:ILE:O	25:2R:196:GLU:HG2	2.15	0.47
11:2S:273:ILE:HG22	10:4Q:36:ARG:HD2	1.96	0.47
13:2U:592:SER:HG	13:2U:600:PHE:HB2	1.79	0.47
15:2X:32:LEU:HD23	15:3X:136:GLY:O	2.13	0.47
1:3A:71:TYR:HA	45:AM:221:ARG:NH1	2.30	0.47
21:3L:72:MET:O	46:BB:320:ARG:NH2	2.39	0.47
10:3Q:65:PRO:O	10:3Q:66:LYS:HG2	2.13	0.47
13:3U:508:THR:OG1	13:3U:536:VAL:O	2.26	0.47
15:3X:35:ASP:C	15:3X:39:LYS:HZ2	2.22	0.47
10:4Q:74:PRO:HB3	10:4Q:148:TYR:OH	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:4S:121:ASP:O	35:4S:125:GLU:HG2	2.14	0.47
36:5A:24:GLY:HA3	36:5A:26:LYS:NZ	2.28	0.47
37:5H:95:ASP:O	37:5H:99:ARG:HG2	2.14	0.47
34:5R:110:ASN:OD1	34:5R:111:TYR:HD2	1.97	0.47
34:5R:527:ASP:O	34:5R:531:THR:HG23	2.14	0.47
34:7R:302:LEU:O	46:CB:77:ARG:NH1	2.45	0.47
34:7R:389:ASN:H	46:EB:276:ARG:HH12	1.62	0.47
45:AG:203:MET:HA	45:AG:203:MET:HE2	1.96	0.47
45:BA:141:VAL:HG12	45:BA:171:ILE:O	2.15	0.47
45:BA:352:LYS:HD2	46:BD:177:ASP:O	2.14	0.47
46:BB:226:ASN:HA	46:BB:229:VAL:HG12	1.97	0.47
45:BE:98:ASP:OD2	45:BE:99:ALA:N	2.48	0.47
46:BL:190:HIS:CD2	46:BL:411:ALA:HA	2.49	0.47
46:CB:375:GLN:CD	46:CB:379:LYS:HZ2	2.23	0.47
45:CC:200:VAL:HG13	45:CC:268:MET:CE	2.45	0.47
45:CC:326:LYS:HZ3	46:CD:220:PRO:HD2	1.79	0.47
46:CD:251:ARG:HH21	45:CE:105:ARG:HD2	1.79	0.47
46:CF:406:MET:O	46:CF:410:GLU:HG2	2.15	0.47
45:CG:109:THR:HG22	45:CG:110:ILE:HG23	1.96	0.47
46:CH:248:SER:HA	46:CH:252:LYS:HE2	1.96	0.47
46:CJ:65:LEU:HD22	46:CJ:90:PHE:CE1	2.49	0.47
45:CK:17:GLY:HA2	45:CK:20:CYS:SG	2.55	0.47
45:CK:180:ALA:HB3	45:CK:183:GLU:HG3	1.96	0.47
46:DB:47:ILE:HD12	46:DB:59:TYR:CE1	2.49	0.47
46:DB:105:HIS:CE1	46:DB:150:LEU:HD12	2.48	0.47
46:DB:318:ARG:HH11	46:DB:358:PRO:HG3	1.79	0.47
46:DF:324:LYS:NZ	45:DG:210:TYR:CG	2.81	0.47
45:DI:188:ILE:HG23	45:DI:425:LEU:HD11	1.97	0.47
45:DI:265:ILE:HG22	45:DI:380:ASN:HD21	1.78	0.47
46:DL:20:PHE:O	46:DL:24:ILE:HG12	2.14	0.47
45:EA:101:ASN:HA	45:EA:144:GLY:H	1.80	0.47
45:EC:265:ILE:HG12	45:EC:432:TYR:CE1	2.49	0.47
45:EE:203:MET:HE2	45:EE:203:MET:HA	1.96	0.47
45:EI:348:PRO:HD2	46:EJ:388:MET:CE	2.44	0.47
46:EJ:55:THR:HG23	46:FJ:283:ALA:HA	1.96	0.47
46:EJ:132:GLY:HA3	46:EJ:163:ILE:HG22	1.96	0.47
46:EL:183:TYR:CZ	46:EL:388:MET:HE2	2.49	0.47
46:EL:269:GLY:C	46:EL:293:MET:HE1	2.39	0.47
45:EM:3:GLU:O	45:EM:133:GLN:N	2.30	0.47
46:EN:372:THR:HA	46:EN:422:TYR:HE2	1.80	0.47
45:FA:155:GLU:HG2	45:FA:197:HIS:NE2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FH:11:GLN:NE2	49:FH:501:GDP:O2A	2.48	0.47
46:FH:117:LEU:HD21	46:FH:121:ARG:HH22	1.79	0.47
46:FJ:105:HIS:CD2	46:FJ:150:LEU:HB2	2.50	0.47
45:FK:79:ARG:O	45:FK:84:ARG:HG2	2.15	0.47
45:FK:340:THR:HG23	45:FK:341:ILE:HG13	1.96	0.47
46:FL:117:LEU:HA	46:FL:120:VAL:HG22	1.96	0.47
46:GD:345:ILE:HG23	46:GD:348:ASN:HB3	1.96	0.47
46:GF:52:ASN:OD1	46:GF:53:GLU:N	2.47	0.47
45:GM:184:PRO:O	45:GM:188:ILE:HG12	2.14	0.47
45:GM:223:THR:HG23	45:GM:225:THR:H	1.79	0.47
46:HF:30:ILE:HG13	46:HF:51:TYR:HE1	1.79	0.47
46:HF:273:LEU:O	46:HF:292:GLN:NE2	2.40	0.47
45:HG:183:GLU:N	45:HG:184:PRO:HD2	2.29	0.47
45:HG:202:VAL:C	45:HG:203:MET:HE2	2.39	0.47
46:HH:16:ILE:HD13	46:HH:226:ASN:OD1	2.14	0.47
46:HL:190:HIS:CD2	46:HL:411:ALA:HA	2.49	0.47
46:HN:117:LEU:HA	46:HN:120:VAL:HG12	1.96	0.47
45:IA:1:MET:HE3	46:ID:94:GLN:NE2	2.29	0.47
45:IA:67:PHE:HB2	45:IA:92:LEU:HD13	1.95	0.47
45:IC:326:LYS:HD3	46:IF:208:TYR:CD1	2.50	0.47
45:IE:171:ILE:HG23	45:IE:204:LEU:O	2.15	0.47
46:IF:116:VAL:O	46:IF:120:VAL:HG23	2.15	0.47
46:IF:165:GLU:OE1	46:IF:200:MET:HE1	2.15	0.47
45:IG:88:HIS:HB3	45:IG:91:GLN:HG2	1.97	0.47
45:II:75:ILE:HD12	45:II:75:ILE:H	1.79	0.47
45:IK:328:VAL:O	45:IK:332:ILE:HG12	2.14	0.47
46:IL:11:GLN:NE2	49:IL:501:GDP:O3B	2.46	0.47
45:IM:89:PRO:HD3	46:JN:281:TYR:HE2	1.78	0.47
46:IN:204:ASN:OD1	49:IN:501:GDP:O2'	2.30	0.47
46:JD:3:GLU:H	46:JD:3:GLU:CD	2.22	0.47
46:JF:325:GLU:O	46:JF:329:GLN:HG2	2.13	0.47
45:JI:377:MET:SD	45:JI:379:SER:HB3	2.54	0.47
46:JJ:1:MET:HG3	46:JJ:48:ASN:ND2	2.29	0.47
45:KA:103:PHE:HB2	45:KA:186:ASN:HB3	1.96	0.47
45:KA:251:ASP:OD1	45:KA:252:ILE:N	2.45	0.47
46:KF:267:MET:HE3	46:KF:299:MET:HE3	1.97	0.47
45:KG:349:THR:OG1	46:KJ:176:SER:OG	2.07	0.47
45:KG:395:PHE:HZ	45:KG:418:PHE:HB3	1.79	0.47
46:KH:73:MET:HA	46:KH:76:VAL:HG12	1.96	0.47
46:KJ:238:CYS:SG	46:KJ:239:CYS:N	2.87	0.47
46:KN:181:GLU:HB3	46:KN:182:PRO:HD3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LB:304:ASP:OD1	46:LB:306:ARG:HG2	2.14	0.47
46:LD:285:THR:HB	46:LD:287:PRO:HD2	1.97	0.47
45:LE:419:SER:O	45:LE:423:GLU:HG2	2.14	0.47
46:LH:113:ILE:HD11	46:LH:151:LEU:HB2	1.97	0.47
45:LK:349:THR:OG1	46:LN:176:SER:OG	2.31	0.47
46:LL:66:MET:SD	46:LL:147:MET:HG2	2.55	0.47
45:MA:141:VAL:HG12	45:MA:171:ILE:O	2.14	0.47
45:MA:288:VAL:HA	45:MA:291:ILE:HG12	1.95	0.47
45:MC:395:PHE:HD2	45:MC:422:ARG:HD3	1.78	0.47
46:MD:299:MET:HE1	46:MD:367:PHE:CE2	2.48	0.47
45:MI:401:LYS:HZ3	46:MJ:344:TRP:CG	2.33	0.47
46:NJ:113:ILE:HG12	46:NJ:117:LEU:CD2	2.44	0.47
46:OB:286:VAL:HG12	46:OB:329:GLN:HE22	1.79	0.47
46:OD:16:ILE:HD12	46:OD:229:VAL:HG11	1.95	0.47
46:OD:109:GLY:O	46:OD:113:ILE:HG23	2.14	0.47
45:OE:139:ASN:O	45:OE:170:THR:HA	2.15	0.47
45:OI:179:THR:HG21	46:OJ:246:LEU:HD23	1.96	0.47
46:PB:318:ARG:HH11	46:PB:358:PRO:HG3	1.80	0.47
45:PC:56:THR:HG23	45:PC:58:ALA:H	1.79	0.47
45:PC:346:TRP:CD1	46:PF:391:ARG:HG3	2.50	0.47
46:PD:12:CYS:O	46:PD:16:ILE:HG12	2.14	0.47
46:PD:391:ARG:HA	46:PD:391:ARG:HD2	1.73	0.47
45:PE:80:THR:O	45:PE:84:ARG:NH2	2.47	0.47
45:PE:340:THR:HG23	45:PE:341:ILE:HG13	1.95	0.47
45:PK:226:ASN:ND2	45:PK:367:ASP:OD1	2.48	0.47
45:QA:101:ASN:HA	45:QA:144:GLY:H	1.79	0.47
45:QA:319:TYR:CD2	45:QA:328:VAL:HG22	2.49	0.47
45:QE:334:THR:HA	45:QE:337:THR:HG22	1.96	0.47
46:QF:287:PRO:CA	46:QF:329:GLN:HE22	2.24	0.47
46:QF:317:PHE:CD1	46:QF:365:VAL:HG22	2.49	0.47
45:QG:51:THR:HG21	45:QG:243:ARG:HB3	1.96	0.47
45:QG:279:GLU:OE1	45:QG:280:LYS:HG3	2.13	0.47
45:QI:318:MET:HB2	45:QI:376:CYS:SG	2.55	0.47
45:QK:14:ILE:HG13	45:QK:67:PHE:CD2	2.50	0.47
46:RD:139:LEU:HD13	46:RD:168:SER:HB3	1.96	0.47
46:RD:237:THR:HG23	46:RD:241:ARG:HH21	1.80	0.47
46:RD:344:TRP:HB3	46:RD:430:ALA:HB2	1.96	0.47
45:RE:326:LYS:HD3	46:RF:212:PHE:HE2	1.78	0.47
46:RF:8:GLN:HE21	46:RF:65:LEU:HD22	1.78	0.47
46:RF:167:PHE:CE1	46:RF:200:MET:HE2	2.49	0.47
46:RF:257:LEU:HD11	46:RF:314:SER:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RI:392:ASP:OD1	45:RI:422:ARG:NH1	2.48	0.47
46:RJ:318:ARG:HH11	46:RJ:358:PRO:HG3	1.78	0.47
45:RK:389:SER:O	45:RK:393:HIS:ND1	2.47	0.47
46:RL:7:ILE:HB	46:RL:135:ILE:HG22	1.97	0.47
45:RM:75:ILE:HD12	45:RM:75:ILE:H	1.77	0.47
45:RM:208:ALA:O	45:RM:212:ILE:HG12	2.14	0.47
46:SB:219:THR:HG23	46:SB:219:THR:O	2.15	0.47
46:SD:31:ASP:OD2	46:SD:37:HIS:ND1	2.47	0.47
46:SD:204:ASN:HD22	46:SD:204:ASN:N	2.13	0.47
45:SE:430:LYS:O	45:SE:433:GLU:HG3	2.14	0.47
45:SI:288:VAL:HA	45:SI:291:ILE:HG12	1.96	0.47
46:SJ:268:ILE:HG22	46:SJ:368:VAL:HG22	1.96	0.47
46:SL:322:SER:OG	45:SM:221:ARG:HG3	2.14	0.47
45:TA:88:HIS:ND1	45:TA:89:PRO:HD2	2.30	0.47
46:TB:154:LYS:HA	46:TB:157:GLU:OE1	2.15	0.47
46:TD:86:ARG:HE	46:TD:87:PRO:HD2	1.79	0.47
46:TD:288:GLU:O	46:TD:291:GLN:HG3	2.13	0.47
46:TJ:325:GLU:HA	46:TJ:328:GLU:HG2	1.96	0.47
46:TL:36:TYR:CZ	46:TL:44:LEU:HD11	2.49	0.47
46:TN:5:VAL:HG12	46:TN:62:ARG:HD3	1.95	0.47
45:UA:184:PRO:O	45:UA:188:ILE:HG12	2.14	0.47
45:UC:103:PHE:CD2	45:UC:413:MET:HE1	2.49	0.47
45:UC:141:VAL:HG22	45:UC:187:SER:HA	1.97	0.47
45:UC:167:LEU:HD22	45:UC:200:VAL:HB	1.96	0.47
45:UE:245:ASP:OD1	45:UE:245:ASP:N	2.46	0.47
46:UF:294:PHE:CD2	46:UF:333:VAL:HG11	2.50	0.47
46:UF:372:THR:HA	46:UF:422:TYR:CE2	2.44	0.47
46:UJ:3:GLU:H	46:UJ:3:GLU:CD	2.23	0.47
45:UK:268:MET:HG3	45:UK:380:ASN:HB2	1.96	0.47
46:UL:154:LYS:O	46:UL:157:GLU:HG2	2.13	0.47
46:UL:251:ARG:O	46:UL:255:VAL:HG23	2.14	0.47
46:UL:327:ASP:OD1	46:UL:328:GLU:N	2.48	0.47
45:UM:352:LYS:HA	46:UN:177:ASP:O	2.13	0.47
45:VC:123:ARG:HH11	45:VC:123:ARG:HA	1.79	0.47
46:VD:77:ARG:NH1	46:VD:82:GLY:O	2.47	0.47
45:VG:201:ALA:HB3	45:VG:267:PHE:CD1	2.49	0.47
45:VG:347:CYS:HA	46:VJ:388:MET:HE1	1.95	0.47
45:VI:156:ARG:HG3	45:VI:156:ARG:HH11	1.78	0.47
45:VI:326:LYS:HD2	45:VI:326:LYS:N	2.29	0.47
46:VL:226:ASN:ND2	49:VL:501:GDP:HN1	2.08	0.47
46:VN:201:VAL:HG13	46:VN:301:CYS:SG	2.53	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WC:28:HIS:CE1	45:WC:243:ARG:HD2	2.49	0.47
45:WC:41:THR:HG22	45:WC:42:ILE:N	2.22	0.47
45:WC:324:VAL:CG1	45:WC:326:LYS:HE2	2.38	0.47
45:WC:401:LYS:HZ1	46:WD:344:TRP:CG	2.31	0.47
45:WE:17:GLY:HA2	45:WE:20:CYS:SG	2.54	0.47
46:WF:309:ARG:NH2	46:WF:426:GLN:O	2.31	0.47
46:WF:390:ARG:HA	46:WF:390:ARG:NH1	2.29	0.47
45:WG:39:ASP:OD1	45:WG:40:LYS:N	2.47	0.47
46:WH:16:ILE:HD13	46:WH:226:ASN:OD1	2.15	0.47
46:WH:396:HIS:HA	46:WH:399:THR:HG22	1.96	0.47
45:WK:68:LEU:HD23	45:WK:149:LEU:HD21	1.96	0.47
45:WK:210:TYR:CG	46:WL:324:LYS:HE3	2.50	0.47
46:WL:314:SER:HB2	46:WL:368:VAL:HG23	1.95	0.47
45:CE:324:VAL:O	45:CE:328:VAL:HG23	2.15	0.47
45:DC:324:VAL:O	45:DC:328:VAL:HG23	2.13	0.47
3:0C:78:ASP:OD1	3:0C:79:LEU:N	2.47	0.47
4:0D:179:LYS:HG3	4:0D:180:ARG:N	2.27	0.47
7:0G:177:MET:O	7:0G:178:LYS:HG2	2.14	0.47
8:0H:397:LEU:O	8:0H:400:GLU:HG3	2.14	0.47
11:0S:154:ASN:HB2	11:0S:187:PHE:CZ	2.50	0.47
13:0U:69:TYR:HB3	13:0U:88:ASP:HA	1.96	0.47
13:0U:373:ASP:HB3	13:0U:375:LYS:NZ	2.29	0.47
16:1B:454:PHE:O	16:1B:457:GLU:HG3	2.14	0.47
5:1E:38:ASP:N	5:1E:41:ASN:OD1	2.48	0.47
7:1G:165:TYR:HD1	7:1G:168:PHE:HD1	1.62	0.47
8:1H:194:GLN:HE21	45:HG:282:TYR:HB2	1.78	0.47
21:1L:82:ILE:O	21:1L:85:LEU:HG	2.14	0.47
23:1O:98:MET:HA	23:1O:101:MET:HE2	1.96	0.47
23:1O:273:LEU:O	23:1O:277:LYS:HG2	2.15	0.47
24:1P:222:LEU:HD23	24:1P:225:GLN:HE21	1.80	0.47
10:1Q:85:LYS:HE2	35:4S:245:GLU:OE2	2.14	0.47
12:1T:114:LYS:HD2	12:1T:115:LYS:N	2.29	0.47
13:1U:280:ALA:O	13:1U:298:SER:N	2.38	0.47
13:1U:364:GLU:OE1	13:1U:365:CYS:N	2.48	0.47
26:1W:204:LYS:HE2	26:1W:208:LEU:HD21	1.96	0.47
16:2B:76:ARG:NH1	16:2B:78:GLU:HB3	2.29	0.47
27:2C:35:LEU:HD22	27:2C:39:PHE:CE1	2.49	0.47
4:2D:161:LYS:HG3	4:2D:162:VAL:H	1.79	0.47
28:2F:17:LYS:HA	28:2F:20:GLU:CD	2.39	0.47
31:2I:114:PHE:CE2	45:FC:123:ARG:HD2	2.49	0.47
20:2K:467:GLN:O	20:2K:470:GLN:HG3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:2N:10:TYR:CD2	46:IB:53:GLU:HB2	2.49	0.47
23:2O:149:TYR:OH	45:VK:371:VAL:HA	2.14	0.47
23:2O:239:ILE:O	23:2O:242:LEU:HG	2.15	0.47
24:2P:354:LYS:O	24:2P:358:GLU:OE1	2.32	0.47
24:2P:364:ASP:O	24:2P:367:GLU:HG3	2.14	0.47
25:2R:100:LEU:HD22	25:2R:194:THR:HG22	1.96	0.47
25:2R:256:ARG:NH2	45:CG:361:THR:OG1	2.48	0.47
11:2S:194:TYR:HE1	11:2S:236:ARG:HE	1.62	0.47
12:2T:97:ARG:NH2	45:MG:416:GLY:HA3	2.30	0.47
13:2U:578:ILE:HD12	13:2U:593:VAL:O	2.14	0.47
5:3E:160:GLN:HE22	5:3E:162:LYS:CG	2.20	0.47
30:3H:169:THR:HB	34:4R:85:TRP:HE1	1.79	0.47
31:3I:205:ILE:HA	45:FK:116:ASP:OD2	2.14	0.47
23:3O:237:LYS:O	23:3O:240:LYS:HG2	2.15	0.47
23:3O:400:GLN:O	23:3O:403:LYS:HG3	2.14	0.47
11:3S:261:LEU:HD13	46:AN:424:GLN:HG3	1.96	0.47
11:3S:301:ASP:HA	11:3S:304:ILE:HD13	1.97	0.47
33:4F:161:GLU:HG2	33:4F:162:TYR:N	2.28	0.47
10:4Q:93:VAL:HA	10:4Q:151:THR:HA	1.95	0.47
36:5D:91:HIS:NE2	36:5D:94:MET:HB3	2.30	0.47
34:5R:120:TYR:CE2	34:5R:162:TRP:HB3	2.49	0.47
35:5S:125:GLU:HB3	35:5S:164:LYS:HZ2	1.79	0.47
40:6G:236:LEU:HD12	40:6G:236:LEU:O	2.13	0.47
40:6G:302:TYR:HA	46:UB:121:ARG:NH1	2.30	0.47
34:6R:78:ILE:HD12	34:6R:78:ILE:H	1.80	0.47
46:AD:294:PHE:CD2	46:AD:333:VAL:HG11	2.50	0.47
45:AE:231:ILE:O	45:AE:235:ILE:HG12	2.15	0.47
46:AF:4:ILE:HG13	46:AF:132:GLY:C	2.39	0.47
45:AG:132:LEU:HD22	45:AG:164:LYS:HE2	1.97	0.47
46:AH:116:VAL:HA	46:AH:119:VAL:HG12	1.96	0.47
46:AH:238:CYS:HB2	46:AH:318:ARG:CZ	2.44	0.47
46:AJ:200:MET:HE2	46:AJ:200:MET:HB3	1.80	0.47
45:AK:332:ILE:HD12	45:AK:351:PHE:CE2	2.48	0.47
45:AM:172:TYR:HE2	45:AM:203:MET:HE1	1.78	0.47
45:BG:17:GLY:HA2	45:BG:20:CYS:SG	2.54	0.47
45:BG:79:ARG:O	45:BG:84:ARG:HG2	2.14	0.47
46:BH:389:PHE:HZ	46:BH:405:GLU:HG2	1.78	0.47
46:BJ:201:VAL:HG23	46:BJ:301:CYS:SG	2.55	0.47
45:CA:109:THR:HG22	45:CA:110:ILE:HG23	1.95	0.47
46:CB:1:MET:HE2	45:CC:72:PRO:HG2	1.96	0.47
46:CD:405:GLU:H	46:CD:405:GLU:CD	2.22	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CG:10:GLY:O	45:CG:14:ILE:HG12	2.13	0.47
45:CG:352:LYS:HE2	46:CH:178:THR:HA	1.97	0.47
46:CJ:6:HIS:O	46:CJ:63:ALA:HA	2.15	0.47
45:CM:154:LEU:HD22	45:CM:166:LYS:HD3	1.94	0.47
46:DB:288:GLU:HA	46:DB:291:GLN:HG3	1.96	0.47
45:DE:169:PHE:CD2	45:DE:202:VAL:HB	2.50	0.47
45:DK:244:PHE:HB2	45:DK:356:ASN:HD21	1.80	0.47
46:DL:167:PHE:CD1	46:DL:233:MET:HE2	2.49	0.47
45:DM:389:SER:O	45:DM:393:HIS:ND1	2.47	0.47
46:DN:105:HIS:CE1	46:DN:150:LEU:HD12	2.50	0.47
45:EC:229:ARG:O	45:EC:233:GLN:OE1	2.33	0.47
46:ED:210:ILE:O	46:ED:214:THR:OG1	2.26	0.47
45:EG:82:THR:HG23	45:EG:83:TYR:CD2	2.49	0.47
45:EI:67:PHE:HB2	45:EI:92:LEU:HD13	1.97	0.47
45:EI:184:PRO:O	45:EI:188:ILE:HG12	2.14	0.47
45:EI:414:GLU:CD	45:EI:416:GLY:H	2.23	0.47
46:EJ:293:MET:HG3	46:EJ:365:VAL:HG11	1.96	0.47
46:EL:9:GLY:HA2	46:EL:66:MET:O	2.14	0.47
45:EM:91:GLN:CD	45:EM:121:ARG:HH21	2.22	0.47
46:EN:5:VAL:HG12	46:EN:62:ARG:HD3	1.96	0.47
46:EN:64:ILE:HA	46:EN:89:ASN:HB3	1.96	0.47
46:EN:262:ARG:NH1	46:EN:421:GLU:OE1	2.48	0.47
46:FB:86:ARG:NE	46:GB:281:TYR:HB3	2.29	0.47
46:FB:327:ASP:HA	46:FB:330:MET:HG3	1.96	0.47
46:FH:342:VAL:HG13	46:FH:345:ILE:HG22	1.95	0.47
45:FI:109:THR:HG22	45:FI:110:ILE:HG23	1.96	0.47
45:FK:205:ASP:OD2	45:FK:304:LYS:N	2.41	0.47
46:FL:137:HIS:NE2	46:FL:166:THR:OG1	2.47	0.47
46:FL:406:MET:HE2	46:FL:406:MET:HA	1.97	0.47
46:FN:198:GLU:HG2	46:FN:266:PHE:HE2	1.79	0.47
46:FN:287:PRO:HA	46:FN:290:THR:HG22	1.96	0.47
46:GH:282:ARG:HE	46:GH:283:ALA:H	1.62	0.47
45:GK:102:ASN:ND2	45:GK:407:TRP:O	2.48	0.47
45:GM:188:ILE:HD11	45:GM:391:LEU:HB3	1.97	0.47
46:HF:131:GLN:HG3	46:HF:163:ILE:HD11	1.97	0.47
46:HF:154:LYS:O	46:HF:157:GLU:HG2	2.14	0.47
46:HH:406:MET:HA	46:HH:406:MET:HE2	1.96	0.47
45:HI:69:ASP:OD1	45:HI:70:LEU:N	2.48	0.47
45:HI:208:ALA:O	45:HI:212:ILE:HG12	2.15	0.47
45:HK:88:HIS:CD2	45:HK:90:GLU:HG2	2.48	0.47
45:HK:167:LEU:HG	45:HK:200:VAL:HB	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IC:101:ASN:HA	45:IC:144:GLY:H	1.80	0.47
46:IF:50:TYR:OH	46:IF:237:THR:HG21	2.15	0.47
45:IM:107:HIS:ND1	45:IM:107:HIS:O	2.48	0.47
45:IM:426:ALA:HB1	45:IM:430:LYS:HZ3	1.80	0.47
45:JG:69:ASP:OD2	45:JG:71:GLU:HG2	2.15	0.47
45:JI:88:HIS:O	45:JI:91:GLN:HG2	2.15	0.47
46:JL:406:MET:O	46:JL:410:GLU:HG2	2.14	0.47
46:JN:12:CYS:O	46:JN:16:ILE:HG12	2.15	0.47
45:KA:88:HIS:NE2	45:KA:90:GLU:HG2	2.28	0.47
45:KC:53:PHE:HB3	45:KC:61:HIS:HB3	1.96	0.47
45:KM:214:ARG:HD2	45:KM:215:ARG:N	2.29	0.47
45:LI:191:THR:HA	45:LI:194:LEU:HG	1.96	0.47
46:LJ:304:ASP:OD2	46:LJ:306:ARG:HG2	2.14	0.47
46:LN:48:ASN:O	46:LN:62:ARG:NH1	2.46	0.47
46:MD:62:ARG:HH22	46:MD:127:CYS:HB3	1.80	0.47
46:MD:139:LEU:HD13	46:MD:168:SER:HB2	1.95	0.47
45:ME:178:SER:OG	45:ME:179:THR:N	2.45	0.47
46:MF:330:MET:SD	46:MF:349:ILE:HG21	2.54	0.47
45:MG:175:PRO:HB3	45:MG:390:ARG:HE	1.79	0.47
45:MG:326:LYS:NZ	46:MJ:208:TYR:HB3	2.24	0.47
45:NA:208:ALA:O	45:NA:212:ILE:HG12	2.14	0.47
45:NC:128:ASN:HD21	45:OC:285:GLN:NE2	2.12	0.47
46:ND:238:CYS:SG	46:ND:239:CYS:N	2.88	0.47
46:NF:342:VAL:HG13	46:NF:345:ILE:HG22	1.97	0.47
45:NI:37:PRO:HB2	45:NI:39:ASP:OD1	2.14	0.47
46:NJ:326:VAL:O	46:NJ:330:MET:HG3	2.14	0.47
45:NK:112:LYS:HA	45:NK:115:VAL:HG12	1.96	0.47
45:NK:121:ARG:HA	45:NK:121:ARG:HE	1.80	0.47
45:NM:208:ALA:O	45:NM:212:ILE:HG12	2.14	0.47
45:OA:172:TYR:CD2	45:OA:203:MET:HG3	2.49	0.47
46:OB:118:ASP:HA	46:OB:121:ARG:NH2	2.29	0.47
46:OF:58:ARG:HH22	46:OF:84:LEU:HA	1.80	0.47
46:OJ:97:ALA:HB3	46:OJ:143:THR:HB	1.96	0.47
46:OJ:217:LEU:H	46:OJ:217:LEU:HD23	1.80	0.47
46:OL:87:PRO:HA	46:OL:90:PHE:CD2	2.50	0.47
45:OM:67:PHE:HD2	45:OM:92:LEU:HD13	1.80	0.47
45:OM:271:SER:HA	45:OM:302:MET:HG2	1.96	0.47
45:OM:317:MET:O	45:OM:318:MET:HE2	2.15	0.47
45:PA:70:LEU:H	45:PA:70:LEU:HD23	1.80	0.47
45:PA:315:CYS:HB2	45:PA:377:MET:HE2	1.95	0.47
46:PF:83:GLN:HE21	46:PF:84:LEU:HD22	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PG:180:ALA:HA	46:PH:350:LYS:NZ	2.29	0.47
45:PG:207:GLU:OE2	45:PG:304:LYS:HB2	2.14	0.47
45:PG:265:ILE:HG12	45:PG:432:TYR:CE1	2.48	0.47
46:PH:7:ILE:HG12	46:PH:64:ILE:HD13	1.96	0.47
46:PH:294:PHE:CD2	46:PH:333:VAL:HG21	2.50	0.47
45:PK:135:PHE:CE2	45:PK:157:LEU:HD21	2.50	0.47
45:PM:425:LEU:O	45:PM:429:GLU:OE1	2.32	0.47
45:QA:202:VAL:HA	45:QA:268:MET:O	2.14	0.47
45:QA:272:TYR:OH	45:QA:320:ARG:NH2	2.43	0.47
45:QC:429:GLU:O	45:QC:433:GLU:HG2	2.14	0.47
46:QF:215:LEU:HD21	46:QF:273:LEU:HD12	1.95	0.47
45:QG:430:LYS:HD3	45:QG:430:LYS:C	2.39	0.47
46:QJ:313:ALA:HB1	46:QJ:367:PHE:CE1	2.50	0.47
46:QJ:375:GLN:HG3	46:QJ:419:VAL:HG13	1.95	0.47
45:QK:31:GLN:NE2	45:QK:33:ASP:HB3	2.29	0.47
46:QN:330:MET:HE2	46:QN:349:ILE:HG21	1.95	0.47
46:RB:19:LYS:HD3	46:RB:226:ASN:HB2	1.97	0.47
46:RD:169:VAL:HG12	46:RD:202:ILE:HB	1.95	0.47
45:RE:141:VAL:HG12	45:RE:171:ILE:O	2.13	0.47
45:RE:326:LYS:HE3	46:RF:220:PRO:HG2	1.95	0.47
45:RG:280:LYS:NZ	45:RG:283:HIS:HB2	2.30	0.47
45:RG:407:TRP:O	45:RG:410:GLY:N	2.46	0.47
46:RJ:385:PHE:HE2	46:RJ:412:GLU:OE2	1.96	0.47
46:RL:21:TRP:CE3	46:RL:61:PRO:HB3	2.48	0.47
46:SB:321:MET:SD	46:SB:363:MET:HE1	2.55	0.47
46:SB:372:THR:HA	46:SB:422:TYR:HE2	1.79	0.47
46:SD:324:LYS:HE3	45:SE:214:ARG:HD3	1.95	0.47
46:SF:289:LEU:HD11	46:SF:363:MET:HB3	1.95	0.47
45:SG:241:SER:OG	45:SG:250:VAL:O	2.30	0.47
45:SG:353:VAL:HG12	46:SH:177:ASP:HB2	1.95	0.47
46:SJ:42:LEU:HA	46:SJ:45:GLU:OE2	2.15	0.47
45:SK:102:ASN:HD22	45:SK:105:ARG:HG3	1.79	0.47
46:SL:65:LEU:C	46:SL:66:MET:HE2	2.40	0.47
45:SM:276:ILE:HG13	45:SM:280:LYS:HE2	1.95	0.47
46:SN:372:THR:HA	46:SN:422:TYR:HE2	1.79	0.47
45:TC:108:TYR:CE2	45:TC:413:MET:HE2	2.49	0.47
45:TE:35:GLN:HE22	45:TE:60:LYS:N	2.13	0.47
46:TF:130:LEU:HD21	46:TF:133:PHE:CZ	2.49	0.47
45:TI:183:GLU:N	45:TI:184:PRO:HD2	2.30	0.47
46:TL:58:ARG:HH11	46:UL:280:GLN:HE22	1.63	0.47
45:TM:413:MET:HE1	45:TM:418:PHE:HE2	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UF:143:THR:OG1	49:UF:501:GDP:O1B	2.28	0.47
46:UJ:389:PHE:HZ	46:UJ:405:GLU:HG3	1.79	0.47
45:UK:175:PRO:HD2	45:UK:207:GLU:OE2	2.14	0.47
46:UL:117:LEU:HA	46:UL:120:VAL:HG12	1.97	0.47
45:UM:74:VAL:O	45:UM:78:VAL:HG23	2.14	0.47
45:UM:188:ILE:HG13	45:UM:425:LEU:HD11	1.96	0.47
45:UM:387:VAL:O	45:UM:390:ARG:HG2	2.15	0.47
46:VB:18:ALA:O	46:VB:22:GLU:HG3	2.13	0.47
46:VB:268:ILE:HG13	46:VB:300:MET:HE2	1.95	0.47
45:VG:75:ILE:HG23	45:VG:92:LEU:HD23	1.97	0.47
45:VG:319:TYR:CD1	45:VG:328:VAL:HG22	2.50	0.47
46:VJ:87:PRO:HA	46:VJ:90:PHE:HD2	1.78	0.47
45:VK:150:GLY:O	45:VK:154:LEU:HD23	2.14	0.47
46:VL:9:GLY:HA2	46:VL:66:MET:O	2.15	0.47
46:VL:322:SER:OG	46:VL:325:GLU:OE2	2.32	0.47
46:VN:289:LEU:HB3	46:VN:365:VAL:HG21	1.96	0.47
46:WB:97:ALA:HA	46:WB:103:LYS:HE3	1.97	0.47
46:WD:128:ASP:OD1	46:WD:129:CYS:N	2.47	0.47
46:WJ:194:GLU:HA	46:WJ:262:ARG:HH12	1.80	0.47
3:0C:92:GLN:OE1	3:0C:93:LYS:HG2	2.15	0.47
10:0Q:48:GLU:HG2	10:0Q:161:ARG:HG2	1.96	0.47
10:0Q:69:LEU:O	10:0Q:69:LEU:HD23	2.14	0.47
11:0S:135:ARG:NH2	11:0S:180:GLU:OE2	2.47	0.47
11:0S:180:GLU:HG2	11:0S:185:TYR:HB2	1.97	0.47
16:1B:400:GLN:NE2	16:1B:479:ARG:HD2	2.29	0.47
21:1L:129:SER:HB2	21:1L:135:ILE:HG22	1.96	0.47
21:1L:305:GLN:HE22	45:BG:279:GLU:HG3	1.80	0.47
21:1L:575:LYS:HZ1	45:AE:84:ARG:HE	1.61	0.47
21:1L:906:ASP:OD1	21:1L:907:GLN:N	2.48	0.47
23:1O:267:ALA:CB	45:UA:281:ALA:HB3	2.44	0.47
24:1P:189:HIS:HB2	46:TH:362:LYS:NZ	2.30	0.47
10:1Q:79:ILE:HD13	10:1Q:131:GLN:HB2	1.97	0.47
11:1S:256:LEU:HB2	11:1S:309:MET:HG2	1.97	0.47
1:2A:36:ARG:HH11	46:MJ:42:LEU:HD11	1.79	0.47
1:2A:83:LEU:O	34:5R:70:ARG:NH1	2.40	0.47
16:2B:136:ARG:HB2	26:2W:261:LYS:NZ	2.29	0.47
5:2E:137:MET:HE1	34:5R:480:ILE:CG1	2.45	0.47
23:2O:158:LYS:O	23:2O:161:THR:OG1	2.13	0.47
24:2P:390:LYS:HA	24:2P:393:GLU:CD	2.40	0.47
25:2R:136:ILE:HG22	25:2R:151:PHE:HB3	1.96	0.47
25:2R:181:PHE:CE2	46:AJ:80:PRO:HB3	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:2S:44:LYS:HG2	10:3Q:4:ASN:HD22	1.80	0.47
12:2T:29:ASN:HB3	12:2T:32:TYR:HD1	1.79	0.47
13:2U:429:VAL:HB	13:2U:446:LYS:HD2	1.95	0.47
16:3B:3:TRP:HA	16:3B:6:ARG:HE	1.80	0.47
27:3C:104:ALA:O	27:3C:108:LEU:HG	2.14	0.47
32:3D:148:ILE:HG12	32:3D:176:PHE:O	2.14	0.47
30:3H:205:GLN:OE1	45:AG:82:THR:N	2.47	0.47
31:3I:260:MET:HB3	46:GJ:332:ASN:HD21	1.79	0.47
23:3O:470:LYS:HA	23:3O:473:GLN:CD	2.40	0.47
12:3T:15:ILE:O	12:3T:18:PRO:HD3	2.14	0.47
13:3U:351:ASN:HD21	13:3U:353:GLN:HE22	1.63	0.47
34:4R:191:PHE:HD2	34:4R:198:MET:HE3	1.78	0.47
10:5Q:101:ARG:HG2	10:5Q:144:TYR:CE1	2.49	0.47
34:5R:337:GLY:HA2	34:5R:371:ILE:HD11	1.95	0.47
34:5R:487:GLU:N	34:5R:487:GLU:OE2	2.45	0.47
10:6Q:115:LYS:HD3	45:AM:264:ARG:HD3	1.95	0.47
45:AA:88:HIS:HA	45:BA:280:LYS:NZ	2.30	0.47
46:AD:72:THR:O	46:AD:75:SER:OG	2.30	0.47
46:AD:113:ILE:HG12	46:AD:117:LEU:HG	1.95	0.47
46:AF:73:MET:HE2	46:AF:73:MET:HB3	1.70	0.47
46:AF:318:ARG:HH11	46:AF:358:PRO:HG3	1.79	0.47
46:AJ:180:VAL:O	46:AJ:180:VAL:HG12	2.14	0.47
45:AK:276:ILE:HD12	45:AK:281:ALA:HA	1.96	0.47
45:BA:210:TYR:HE1	45:BA:227:LEU:HD11	1.80	0.47
45:BC:358:GLN:OE1	45:BC:359:PRO:HD2	2.14	0.47
46:BD:294:PHE:CD2	46:BD:333:VAL:HG11	2.49	0.47
46:BF:3:GLU:CD	46:BF:3:GLU:H	2.22	0.47
46:BF:293:MET:HE3	46:BF:294:PHE:CD1	2.50	0.47
45:BG:306:ASP:OD2	45:BG:308:ARG:HG3	2.15	0.47
46:BJ:222:TYR:HA	46:BJ:225:LEU:HD12	1.96	0.47
46:BL:145:SER:HB3	46:BL:188:SER:HB3	1.96	0.47
46:BL:293:MET:HE1	46:BL:315:ALA:CB	2.44	0.47
46:CD:173:PRO:HD2	46:CD:174:LYS:NZ	2.29	0.47
46:CH:299:MET:HE2	46:CH:299:MET:HA	1.96	0.47
46:CJ:167:PHE:CZ	46:CJ:200:MET:HG3	2.50	0.47
46:DD:201:VAL:HG23	46:DD:301:CYS:SG	2.54	0.47
45:DE:226:ASN:ND2	45:DE:367:ASP:OD2	2.45	0.47
46:DF:21:TRP:CZ2	46:DF:63:ALA:HB2	2.49	0.47
45:DG:68:LEU:HD11	45:DG:118:CYS:SG	2.55	0.47
45:DG:75:ILE:O	45:DG:79:ARG:HG2	2.14	0.47
46:DH:213:ARG:HH21	46:DH:297:LYS:HB3	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DI:137:VAL:HG23	45:DI:168:GLY:HA2	1.95	0.47
45:DI:208:ALA:O	45:DI:212:ILE:HG12	2.14	0.47
45:DI:335:ILE:HA	45:DI:338:LYS:HZ3	1.79	0.47
46:DJ:375:GLN:HG3	46:DJ:419:VAL:HG13	1.96	0.47
45:DM:371:VAL:HG22	45:DM:373:ARG:H	1.78	0.47
46:EB:139:LEU:HD13	46:EB:168:SER:HB3	1.95	0.47
46:ED:222:TYR:O	46:ED:226:ASN:ND2	2.27	0.47
46:EF:150:LEU:HG	46:EF:154:LYS:HZ3	1.80	0.47
45:EG:217:LEU:HB3	45:EG:219:ILE:HG12	1.96	0.47
46:EJ:67:ASP:O	46:EJ:92:PHE:HA	2.14	0.47
46:EJ:105:HIS:CE1	46:EJ:150:LEU:HD12	2.50	0.47
46:EN:148:GLY:O	46:EN:152:ILE:HG12	2.13	0.47
45:FA:305:CYS:SG	45:FA:306:ASP:N	2.88	0.47
46:FB:91:VAL:HG21	46:FB:116:VAL:HB	1.95	0.47
46:FD:222:TYR:O	46:FD:226:ASN:ND2	2.33	0.47
45:FE:171:ILE:HG23	45:FE:204:LEU:O	2.15	0.47
45:FI:242:LEU:HD21	45:FI:252:ILE:HG12	1.97	0.47
46:FN:42:LEU:HA	46:FN:45:GLU:HG3	1.97	0.47
45:GA:27:GLU:HB2	45:GA:361:THR:HG21	1.97	0.47
45:GE:80:THR:O	45:GE:84:ARG:NH2	2.48	0.47
45:GE:321:GLY:HA3	45:GE:372:MET:O	2.14	0.47
46:GJ:6:HIS:HE1	46:GJ:8:GLN:HB3	1.79	0.47
46:GJ:118:ASP:O	46:GJ:121:ARG:HG2	2.14	0.47
45:HC:88:HIS:HB3	45:HC:91:GLN:HG2	1.97	0.47
46:HF:175:VAL:HG22	46:HF:205:GLU:HB3	1.97	0.47
45:HG:161:TYR:HB3	45:HG:164:LYS:HG2	1.96	0.47
46:ID:178:THR:HB	46:ID:181:GLU:OE1	2.14	0.47
45:IE:121:ARG:NE	45:IE:121:ARG:HA	2.29	0.47
46:IH:221:THR:HG23	46:IH:224:ASP:H	1.79	0.47
46:IH:372:THR:HA	46:IH:422:TYR:HE2	1.78	0.47
45:II:205:ASP:OD1	45:II:303:ALA:HA	2.15	0.47
45:IK:97:GLU:OE2	45:IK:110:ILE:HG13	2.14	0.47
46:IL:65:LEU:HD22	46:IL:90:PHE:CE1	2.50	0.47
46:IN:3:GLU:H	46:IN:3:GLU:CD	2.22	0.47
46:JB:5:VAL:HG12	46:JB:62:ARG:HD3	1.96	0.47
45:JC:206:ASN:OD1	47:JC:501:GTP:N2	2.40	0.47
46:JD:9:GLY:HA2	46:JD:66:MET:O	2.15	0.47
46:JD:52:ASN:OD1	46:JD:62:ARG:NH2	2.47	0.47
45:JK:401:LYS:HZ1	46:JL:344:TRP:CD1	2.32	0.47
46:JN:313:ALA:HB1	46:JN:367:PHE:CE1	2.49	0.47
45:KA:210:TYR:CE1	45:KA:227:LEU:HD21	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KJ:105:HIS:CE1	46:KJ:150:LEU:HD12	2.50	0.47
46:KJ:156:ARG:HD3	46:KJ:156:ARG:O	2.15	0.47
46:KJ:200:MET:HG2	46:KJ:266:PHE:HB2	1.96	0.47
46:KN:27:GLU:O	46:KN:43:GLN:NE2	2.45	0.47
46:LD:190:HIS:CD2	46:LD:414:ASN:HD22	2.33	0.47
45:LE:430:LYS:HD3	45:LE:433:GLU:OE2	2.15	0.47
46:LH:319:GLY:HA2	46:LH:357:PRO:HD3	1.96	0.47
46:LH:406:MET:HE3	46:LH:406:MET:HA	1.96	0.47
45:LI:52:PHE:HZ	45:LI:239:THR:HG21	1.79	0.47
46:LL:374:ILE:O	46:LL:377:MET:HG2	2.15	0.47
46:MB:342:VAL:HG13	46:MB:345:ILE:HG22	1.96	0.47
45:MG:82:THR:HG23	45:MG:83:TYR:CD2	2.49	0.47
45:MM:265:ILE:HG22	45:MM:432:TYR:CE1	2.49	0.47
46:MN:276:ARG:NE	46:MN:276:ARG:HA	2.30	0.47
45:NA:31:GLN:HG2	45:NA:37:PRO:HD3	1.96	0.47
46:ND:194:GLU:OE2	46:ND:195:ASN:ND2	2.47	0.47
45:NE:96:LYS:HA	46:NF:1:MET:HE2	1.97	0.47
45:NI:253:THR:HA	45:NI:256:GLN:HE22	1.80	0.47
45:NI:343:PHE:HZ	45:NI:351:PHE:CE1	2.32	0.47
46:NJ:86:ARG:HA	46:OJ:281:TYR:HD2	1.79	0.47
45:NM:9:VAL:HG22	45:NM:146:GLY:HA2	1.96	0.47
46:NN:315:ALA:HB1	46:NN:317:PHE:CE2	2.49	0.47
46:OB:300:MET:N	46:OB:300:MET:SD	2.87	0.47
45:OE:8:HIS:HB2	45:OE:67:PHE:HD1	1.79	0.47
46:OF:67:ASP:O	46:OF:92:PHE:HA	2.14	0.47
45:OI:98:ASP:OD1	45:OI:99:ALA:N	2.48	0.47
46:OJ:97:ALA:HA	46:OJ:103:LYS:HE2	1.96	0.47
45:OK:171:ILE:HG23	45:OK:204:LEU:O	2.14	0.47
46:OL:294:PHE:CE2	46:OL:333:VAL:HG11	2.46	0.47
45:PA:141:VAL:HG12	45:PA:171:ILE:O	2.14	0.47
45:PE:51:THR:HG21	45:PE:243:ARG:HB3	1.97	0.47
45:PE:88:HIS:HD2	45:PE:89:PRO:HD2	1.79	0.47
46:PF:189:VAL:HG13	46:PF:415:MET:HE3	1.97	0.47
46:PH:312:THR:HG22	46:PH:370:ASN:HB3	1.96	0.47
45:PI:229:ARG:HH12	45:PI:363:VAL:HG21	1.80	0.47
46:PJ:389:PHE:CZ	46:PJ:405:GLU:HG2	2.49	0.47
45:PK:90:GLU:HG3	45:PK:121:ARG:HH12	1.79	0.47
45:QA:209:ILE:HA	45:QA:212:ILE:HG22	1.95	0.47
45:QC:210:TYR:CE1	45:QC:227:LEU:HD11	2.50	0.47
45:QE:317:MET:HG2	45:QE:353:VAL:HG23	1.97	0.47
45:QE:340:THR:HG23	45:QE:341:ILE:HG13	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QF:252:LYS:NZ	45:QG:101:ASN:OD1	2.43	0.47
46:QF:273:LEU:H	46:QF:292:GLN:NE2	2.08	0.47
45:QI:20:CYS:HA	45:QI:232:ALA:HB1	1.95	0.47
46:QJ:350:LYS:HD2	46:QJ:351:SER:H	1.80	0.47
45:QK:133:GLN:HB3	45:QK:252:ILE:CD1	2.45	0.47
45:QK:236:SER:HA	45:QK:239:THR:HG22	1.97	0.47
46:RF:255:VAL:HA	45:RG:407:TRP:CZ2	2.50	0.47
45:RI:98:ASP:OD1	45:RI:99:ALA:N	2.48	0.47
46:RN:268:ILE:HG22	46:RN:368:VAL:HG22	1.95	0.47
45:SA:101:ASN:HA	45:SA:144:GLY:H	1.79	0.47
46:SB:145:SER:HB2	46:SB:188:SER:HB3	1.96	0.47
46:SB:251:ARG:HE	45:SC:105:ARG:HH12	1.61	0.47
46:SF:289:LEU:HB3	46:SF:365:VAL:HG21	1.96	0.47
45:SK:75:ILE:HG12	45:SK:79:ARG:HH12	1.79	0.47
45:SK:214:ARG:NH1	45:SK:219:ILE:O	2.47	0.47
46:SL:269:GLY:HA2	46:SL:300:MET:HE1	1.97	0.47
46:SL:345:ILE:HA	45:SM:398:MET:HE1	1.96	0.47
45:TA:3:GLU:HG2	45:TA:64:ARG:CZ	2.44	0.47
46:TB:208:TYR:HE1	46:TB:225:LEU:HD11	1.79	0.47
45:TE:60:LYS:HE2	45:UE:283:HIS:CD2	2.50	0.47
46:TJ:341:PHE:HB3	46:TJ:348:ASN:HD21	1.78	0.47
45:TM:71:GLU:OE2	45:TM:73:THR:OG1	2.24	0.47
45:UC:194:LEU:HB2	45:UC:198:THR:OG1	2.14	0.47
46:UD:66:MET:HE1	46:UD:147:MET:HG3	1.96	0.47
45:UE:434:GLU:O	45:UE:437:ILE:HG12	2.15	0.47
45:UG:88:HIS:O	45:UG:91:GLN:HG2	2.14	0.47
45:UG:171:ILE:HG23	45:UG:204:LEU:O	2.14	0.47
46:UH:52:ASN:OD1	46:UH:62:ARG:NH2	2.47	0.47
45:UK:75:ILE:HG22	45:UK:79:ARG:HD2	1.97	0.47
45:UM:238:LEU:HD12	45:UM:239:THR:HG23	1.95	0.47
45:VG:221:ARG:HA	45:VG:221:ARG:HD2	1.45	0.47
45:VI:183:GLU:N	45:VI:184:PRO:HD2	2.29	0.47
45:VM:109:THR:HG22	45:VM:110:ILE:HG23	1.96	0.47
46:VN:86:ARG:HB3	46:VN:89:ASN:OD1	2.14	0.47
46:VN:210:ILE:O	46:VN:214:THR:HG22	2.15	0.47
45:WA:3:GLU:O	45:WA:133:GLN:N	2.30	0.47
46:WB:238:CYS:SG	46:WB:239:CYS:N	2.88	0.47
46:WD:268:ILE:HG22	46:WD:368:VAL:HG22	1.96	0.47
45:WG:356:ASN:OD1	45:WG:357:TYR:N	2.47	0.47
46:WH:31:ASP:OD1	46:WH:35:THR:N	2.37	0.47
45:WM:171:ILE:HD13	47:WM:501:GTP:N2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DC:27:GLU:OE2	45:DC:243:ARG:NH1	2.48	0.47
4:0D:166:ARG:HD3	4:0D:167:ILE:H	1.79	0.47
5:0E:29:ARG:NH1	5:0E:148:GLN:O	2.48	0.47
6:0F:35:TYR:HA	45:DE:79:ARG:HH11	1.80	0.47
7:0G:162:ALA:HA	45:KM:244:PHE:HA	1.97	0.47
8:0H:364:GLN:O	8:0H:368:GLU:OE1	2.33	0.47
8:0H:379:GLU:O	8:0H:383:LYS:HG2	2.15	0.47
11:0S:246:GLU:HA	11:0S:249:VAL:HG23	1.96	0.47
12:0T:25:GLN:HG3	12:0T:163:VAL:HG21	1.96	0.47
13:0U:374:GLY:HA2	14:3V:6:ILE:HD12	1.96	0.47
13:0U:574:HIS:CE1	13:0U:578:ILE:HD13	2.48	0.47
4:1D:166:ARG:NH1	45:EG:80:THR:O	2.47	0.47
5:1E:19:ARG:HH22	5:1E:55:ASN:HB3	1.79	0.47
17:1F:157:LEU:O	17:1F:159:THR:HG23	2.15	0.47
7:1G:146:LYS:HG3	7:1G:147:HIS:ND1	2.29	0.47
7:1G:150:GLU:OE2	27:3C:266:GLN:HG2	2.14	0.47
8:1H:136:MET:HG2	8:1H:140:PHE:CE2	2.50	0.47
8:1H:206:ARG:HG2	8:1H:209:GLN:NE2	2.30	0.47
8:1H:229:GLU:C	8:1H:231:MET:H	2.22	0.47
8:1H:295:GLU:OE1	8:1H:296:ARG:NH2	2.48	0.47
18:1I:11:TYR:OH	46:ID:47:ILE:HG23	2.14	0.47
18:1I:133:GLU:HB2	18:1I:136:ARG:NH2	2.29	0.47
18:1I:159:CYS:O	18:1I:160:THR:OG1	2.25	0.47
19:1J:76:VAL:HG22	45:IC:370:LYS:NZ	2.29	0.47
19:1J:150:THR:HG23	19:1J:153:GLU:CD	2.40	0.47
19:1J:175:HIS:CE1	46:HH:53:GLU:HG2	2.49	0.47
19:1J:254:ASN:HB3	45:HI:85:GLN:NE2	2.21	0.47
19:1J:286:LYS:HA	19:1J:289:GLN:OE1	2.14	0.47
19:1J:293:ASP:OD2	45:IK:221:ARG:NH2	2.47	0.47
20:1K:57:GLU:O	20:1K:61:ILE:HD12	2.14	0.47
20:1K:213:ASN:O	20:1K:216:LEU:HB3	2.14	0.47
21:1L:545:GLU:HG2	45:BE:279:GLU:HG2	1.97	0.47
23:1O:149:TYR:O	23:1O:153:VAL:HG23	2.14	0.47
24:1P:99:ALA:HB1	24:1P:103:LYS:NZ	2.30	0.47
24:1P:341:LEU:O	24:1P:345:LYS:HG3	2.15	0.47
12:1T:7:PHE:CE2	12:1T:41:PHE:CD2	3.02	0.47
12:1T:41:PHE:CZ	12:1T:171:PHE:HB2	2.47	0.47
12:1T:65:ARG:NH1	12:1T:139:TYR:OH	2.48	0.47
12:1T:120:LEU:HD22	12:1T:199:ARG:O	2.14	0.47
13:1U:591:VAL:HG23	13:1U:601:ILE:HG22	1.97	0.47
14:1V:24:ARG:NH1	45:MI:433:GLU:HB2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:1V:101:ILE:HD12	45:LI:415:GLU:OE1	2.14	0.47
14:1V:268:ASN:OD1	14:1V:269:MET:N	2.46	0.47
26:1W:189:ARG:NH1	45:LA:45:GLY:H	1.99	0.47
15:1X:1:MET:HE1	45:ME:2:ARG:CZ	2.45	0.47
16:2B:7:LEU:HA	16:2B:10:ILE:HB	1.96	0.47
27:2C:223:GLN:HB3	45:KI:219:ILE:HG23	1.97	0.47
20:2K:291:GLN:HE22	46:FL:56:GLY:N	2.12	0.47
22:2M:25:LEU:O	22:2M:25:LEU:HD23	2.15	0.47
22:2M:247:GLN:HG3	22:2M:249:GLN:OE1	2.14	0.47
9:2N:1:MET:HE2	45:IA:114:ILE:HG12	1.96	0.47
23:2O:350:ASN:OD1	23:2O:354:LYS:NZ	2.48	0.47
24:2P:388:THR:HA	24:2P:391:ARG:NH1	2.30	0.47
24:2P:448:LYS:HD3	24:2P:448:LYS:N	2.29	0.47
25:2R:89:GLN:NE2	30:3H:214:THR:O	2.38	0.47
25:2R:116:GLU:CD	25:2R:117:ALA:H	2.23	0.47
11:2S:44:LYS:HZ3	10:3Q:3:LYS:HB2	1.80	0.47
11:2S:104:THR:HG22	46:MJ:156:ARG:NH2	2.29	0.47
13:2U:187:VAL:HA	13:2U:225:ALA:HB1	1.96	0.47
13:2U:416:ASP:OD1	13:2U:416:ASP:N	2.41	0.47
13:2U:539:LEU:HA	13:2U:549:VAL:O	2.14	0.47
13:2U:543:LYS:HD2	13:2U:544:GLU:N	2.30	0.47
13:2U:592:SER:OG	13:2U:600:PHE:HB2	2.15	0.47
14:2V:179:TYR:O	14:2V:183:GLN:HG2	2.15	0.47
1:3A:36:ARG:HH11	46:MN:42:LEU:HD21	1.80	0.47
1:3A:53:HIS:NE2	1:3A:80:LYS:HG3	2.30	0.47
1:3A:100:PHE:CZ	25:3R:7:LYS:HD3	2.50	0.47
16:3B:216:GLU:OE1	46:KH:320:ARG:NH2	2.43	0.47
27:3C:67:LYS:NZ	45:LA:81:GLY:HA2	2.29	0.47
32:3D:135:ALA:HB2	32:3D:154:PHE:CE1	2.49	0.47
30:3H:174:PHE:CD1	34:4R:147:ARG:CG	2.97	0.47
30:3H:174:PHE:CD2	34:4R:147:ARG:NH2	2.82	0.47
21:3L:63:GLU:HG3	21:3L:86:ILE:HD12	1.96	0.47
23:3O:406:ARG:O	23:3O:409:GLU:HG2	2.15	0.47
12:3T:198:ASP:OD1	12:3T:199:ARG:N	2.48	0.47
15:3X:125:GLU:O	15:3X:129:ILE:HG12	2.14	0.47
33:4F:71:TYR:HE1	45:II:31:GLN:HA	1.77	0.47
10:4Q:74:PRO:HD2	10:4Q:169:ASP:OD1	2.15	0.47
34:4R:33:LEU:N	45:LC:1:MET:HE1	2.29	0.47
34:4R:423:ILE:HD12	34:4R:447:PHE:HD2	1.80	0.47
35:4S:184:ARG:HA	35:4S:240:MET:CE	2.45	0.47
35:4S:233:ALA:O	35:4S:237:ILE:HG12	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:4X:76:GLU:OE1	15:4X:77:LEU:HD22	2.15	0.47
36:5A:45:TYR:CZ	36:5A:56:ILE:HG13	2.49	0.47
36:5C:57:PRO:HG2	46:KJ:390:ARG:CZ	2.44	0.47
37:5F:26:GLY:HA2	45:OC:221:ARG:CZ	2.45	0.47
34:5R:457:GLU:HB2	34:5R:470:PHE:HB2	1.97	0.47
34:7R:41:LYS:NZ	34:7R:43:ASN:HB2	2.29	0.47
34:7R:497:GLN:HG3	34:7R:502:ARG:HG2	1.95	0.47
45:AC:147:SER:HB2	45:AC:190:SER:HB3	1.96	0.47
45:AE:226:ASN:ND2	45:AE:367:ASP:OD2	2.40	0.47
45:AE:387:VAL:HG12	45:AE:390:ARG:HH22	1.79	0.47
46:AF:376:GLU:O	46:AF:380:ARG:HG3	2.14	0.47
45:AG:175:PRO:HG3	45:AG:390:ARG:CZ	2.44	0.47
46:AH:232:ALA:HB1	46:AH:268:ILE:HD12	1.97	0.47
45:AI:291:ILE:HD13	45:AI:373:ARG:HB3	1.97	0.47
46:AL:238:CYS:SG	46:AL:239:CYS:N	2.87	0.47
46:BB:240:LEU:HD21	46:BB:249:ASP:HA	1.97	0.47
46:BB:290:THR:HA	46:BB:293:MET:HG2	1.97	0.47
45:BC:54:SER:HB3	45:BC:64:ARG:HE	1.80	0.47
45:BC:254:GLU:HA	45:BC:257:THR:HG22	1.97	0.47
46:BD:184:ASN:OD1	46:BD:185:ALA:N	2.48	0.47
45:BE:331:SER:O	45:BE:335:ILE:HG12	2.14	0.47
46:BF:48:ASN:O	46:BF:62:ARG:NH1	2.48	0.47
46:BF:211:CYS:SG	46:BF:220:PRO:HG3	2.54	0.47
46:BH:6:HIS:O	46:BH:63:ALA:HA	2.14	0.47
45:BI:189:LEU:HD11	45:BI:418:PHE:HE1	1.80	0.47
45:BI:329:ASN:HD21	46:BL:175:VAL:CG1	2.27	0.47
46:BJ:167:PHE:HE1	46:BJ:233:MET:SD	2.38	0.47
46:BL:282:ARG:NH2	46:BL:292:GLN:OE1	2.47	0.47
46:CB:16:ILE:HD13	46:CB:226:ASN:HD22	1.79	0.47
45:CC:5:ILE:HB	45:CC:135:PHE:HD1	1.80	0.47
45:CC:206:ASN:OD1	45:CC:207:GLU:N	2.48	0.47
45:CC:212:ILE:HD13	45:CC:215:ARG:HH11	1.80	0.47
46:CF:204:ASN:OD1	49:CF:501:GDP:O2'	2.32	0.47
45:CG:156:ARG:HA	45:CG:156:ARG:NE	2.30	0.47
45:CG:326:LYS:HZ2	46:CH:219:THR:HA	1.80	0.47
45:CI:190:SER:O	45:CI:194:LEU:HD23	2.14	0.47
46:CJ:324:LYS:CE	45:CK:222:PRO:HD2	2.39	0.47
45:CK:2:ARG:CZ	45:CK:133:GLN:HE22	2.27	0.47
45:CK:205:ASP:OD2	45:CK:303:ALA:HA	2.14	0.47
45:CK:211:ASP:OD1	45:CK:215:ARG:NE	2.48	0.47
45:CK:242:LEU:HD11	45:CK:252:ILE:HG23	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CL:350:LYS:HZ3	45:CM:179:THR:C	2.23	0.47
45:CM:182:VAL:HG22	45:CM:185:TYR:HB2	1.97	0.47
45:CM:207:GLU:HA	45:CM:210:TYR:HB2	1.96	0.47
45:DA:14:ILE:HD11	45:DA:69:ASP:HB2	1.96	0.47
46:DD:11:GLN:HE22	49:DD:501:GDP:H8	1.62	0.47
45:DE:90:GLU:OE1	45:EE:280:LYS:NZ	2.47	0.47
45:DG:292:THR:HG21	45:DG:331:SER:HB3	1.96	0.47
46:DH:105:HIS:CE1	46:DH:150:LEU:HD12	2.50	0.47
46:DH:344:TRP:HB3	46:DH:430:ALA:HB2	1.96	0.47
46:DJ:8:GLN:OE1	46:DJ:65:LEU:HD22	2.14	0.47
45:DK:21:TRP:CZ2	45:DK:65:ALA:HB2	2.49	0.47
45:DK:166:LYS:N	45:DK:199:ASP:OD2	2.36	0.47
45:DM:265:ILE:HG22	45:DM:432:TYR:HE1	1.79	0.47
46:DN:65:LEU:HD22	46:DN:90:PHE:CE1	2.50	0.47
45:EA:109:THR:HG22	45:EA:110:ILE:HG23	1.96	0.47
45:EA:171:ILE:HG23	45:EA:204:LEU:O	2.15	0.47
45:EA:184:PRO:O	45:EA:188:ILE:HG12	2.15	0.47
46:EB:133:PHE:HD2	46:EB:155:VAL:HG11	1.80	0.47
46:EB:262:ARG:NH1	46:EB:421:GLU:OE1	2.48	0.47
46:EB:382:ALA:HB2	46:EB:415:MET:HE3	1.95	0.47
45:EC:85:GLN:CD	45:EC:85:GLN:H	2.23	0.47
45:EC:91:GLN:HA	45:EC:121:ARG:NE	2.30	0.47
46:ED:280:GLN:OE1	46:ED:280:GLN:N	2.45	0.47
45:EE:241:SER:OG	45:EE:250:VAL:O	2.24	0.47
46:EF:8:GLN:O	46:EF:66:MET:HG2	2.15	0.47
46:EF:246:LEU:HD13	46:EF:353:ILE:HD13	1.97	0.47
45:EG:68:LEU:HD21	45:EG:118:CYS:SG	2.55	0.47
45:EG:98:ASP:OD1	45:EG:99:ALA:N	2.48	0.47
45:EG:241:SER:OG	45:EG:250:VAL:O	2.28	0.47
45:EG:254:GLU:OE1	46:EH:99:ASN:ND2	2.48	0.47
46:EJ:21:TRP:CZ3	46:EJ:61:PRO:HB3	2.50	0.47
46:EJ:207:LEU:HB3	46:EJ:225:LEU:HD22	1.96	0.47
45:EK:147:SER:HB2	45:EK:190:SER:HB3	1.96	0.47
46:EL:4:ILE:HG13	46:EL:132:GLY:O	2.14	0.47
46:EL:300:MET:HE2	46:EL:300:MET:HB2	1.71	0.47
45:EM:288:VAL:HG11	45:EM:327:ASP:HB3	1.96	0.47
46:EN:101:TRP:CE3	46:EN:187:LEU:HD13	2.50	0.47
45:FA:210:TYR:HE1	45:FA:227:LEU:HD11	1.79	0.47
45:FA:221:ARG:CZ	46:FB:322:SER:HB3	2.45	0.47
45:FA:248:LEU:HD12	45:FA:355:ILE:HD12	1.95	0.47
45:FA:288:VAL:HA	45:FA:291:ILE:HG12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FB:186:THR:HG23	46:FB:415:MET:SD	2.55	0.47
45:FC:79:ARG:O	45:FC:84:ARG:HG2	2.14	0.47
45:FG:227:LEU:O	45:FG:231:ILE:HG13	2.15	0.47
46:FH:10:GLY:O	46:FH:14:ASN:ND2	2.48	0.47
46:FH:257:LEU:HD21	46:FH:314:SER:HB2	1.96	0.47
46:FH:359:LYS:C	46:FH:359:LYS:HD3	2.40	0.47
45:FI:11:GLN:NE2	46:FJ:245:GLN:O	2.47	0.47
45:FK:171:ILE:HG23	45:FK:204:LEU:O	2.15	0.47
46:FL:238:CYS:SG	46:FL:239:CYS:N	2.88	0.47
46:FN:293:MET:SD	46:FN:365:VAL:HG11	2.54	0.47
45:GA:21:TRP:CZ2	45:GA:65:ALA:HB2	2.50	0.47
46:GB:132:GLY:HA2	46:GB:162:ARG:HB3	1.96	0.47
46:GD:3:GLU:H	46:GD:3:GLU:CD	2.22	0.47
45:GE:101:ASN:HD22	45:GE:143:GLY:HA2	1.79	0.47
45:GE:306:ASP:HB3	45:GE:309:HIS:CE1	2.50	0.47
45:GG:221:ARG:HH21	46:GH:320:ARG:HH12	1.63	0.47
46:GH:164:MET:HE2	46:GH:164:MET:HA	1.96	0.47
46:GH:310:TYR:CD1	46:GH:371:SER:HB2	2.49	0.47
45:GI:22:GLU:HG2	45:GI:83:TYR:OH	2.15	0.47
45:GK:425:LEU:O	45:GK:429:GLU:HG2	2.14	0.47
46:GN:202:ILE:HD11	46:GN:268:ILE:HD11	1.96	0.47
45:HA:319:TYR:CE1	45:HA:328:VAL:HG22	2.49	0.47
46:HB:235:GLY:O	46:HB:316:LEU:HD23	2.14	0.47
45:HE:133:GLN:HB3	45:HE:252:ILE:HD11	1.97	0.47
46:HF:345:ILE:HG23	46:HF:345:ILE:O	2.15	0.47
45:HI:187:SER:O	45:HI:191:THR:HG23	2.15	0.47
46:HJ:273:LEU:H	46:HJ:292:GLN:NE2	2.10	0.47
45:HK:174:SER:HB2	45:HK:177:VAL:O	2.15	0.47
46:HL:16:ILE:HD13	46:HL:226:ASN:OD1	2.15	0.47
45:IA:387:VAL:HA	45:IA:390:ARG:HG2	1.97	0.47
46:IB:121:ARG:O	46:IB:125:GLU:OE1	2.33	0.47
46:IB:145:SER:HB2	46:IB:188:SER:HB3	1.97	0.47
45:IC:121:ARG:NE	45:IC:121:ARG:HA	2.29	0.47
46:ID:31:ASP:OD1	46:ID:35:THR:N	2.36	0.47
46:ID:73:MET:HG2	46:ID:90:PHE:CD1	2.49	0.47
45:IE:118:CYS:O	45:IE:122:ILE:HG12	2.15	0.47
46:IF:334:GLN:NE2	46:IF:348:ASN:OD1	2.40	0.47
45:IG:8:HIS:CD2	45:IG:138:PHE:HD1	2.32	0.47
45:IG:100:ALA:O	46:IH:255:VAL:HG21	2.15	0.47
45:IG:245:ASP:OD2	45:IG:245:ASP:N	2.47	0.47
46:IJ:324:LYS:HB3	46:IJ:328:GLU:OE2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IK:135:PHE:HE2	45:IK:157:LEU:HD12	1.80	0.47
46:IL:64:ILE:HD13	46:IL:119:VAL:HG12	1.97	0.47
46:IN:181:GLU:HB2	46:IN:182:PRO:HD3	1.96	0.47
46:IN:187:LEU:HD21	46:IN:408:PHE:HE1	1.80	0.47
46:IN:201:VAL:HG22	46:IN:266:PHE:O	2.14	0.47
46:IN:287:PRO:HG3	46:IN:329:GLN:NE2	2.30	0.47
45:JA:17:GLY:HA2	45:JA:20:CYS:SG	2.55	0.47
45:JA:70:LEU:HD13	45:JA:145:THR:OG1	2.15	0.47
45:JA:89:PRO:HD3	45:KA:283:HIS:ND1	2.30	0.47
45:JA:179:THR:O	46:JB:350:LYS:HA	2.14	0.47
45:JA:205:ASP:OD1	45:JA:303:ALA:HA	2.15	0.47
46:JB:325:GLU:HA	46:JB:328:GLU:HG2	1.96	0.47
45:JG:414:GLU:CD	45:JG:416:GLY:H	2.23	0.47
45:JG:439:THR:HG21	46:JJ:390:ARG:HH12	1.79	0.47
46:JH:66:MET:HE2	46:JH:147:MET:HE3	1.96	0.47
46:JJ:226:ASN:ND2	49:JJ:501:GDP:HN1	2.12	0.47
46:JN:328:GLU:HA	46:JN:331:LEU:HG	1.96	0.47
46:KB:116:VAL:HA	46:KB:119:VAL:HG12	1.97	0.47
45:KC:205:ASP:N	45:KC:205:ASP:OD2	2.46	0.47
45:KG:208:ALA:O	45:KG:212:ILE:HG12	2.13	0.47
45:KG:210:TYR:CE2	45:KG:227:LEU:HD11	2.49	0.47
45:KG:296:PHE:HE2	45:KG:335:ILE:HG21	1.79	0.47
45:KI:318:MET:HB2	45:KI:376:CYS:SG	2.54	0.47
46:KJ:343:GLU:N	46:KJ:343:GLU:OE1	2.47	0.47
46:KL:20:PHE:CD2	46:KL:21:TRP:HD1	2.33	0.47
45:LA:34:GLY:O	45:LA:60:LYS:HA	2.15	0.47
46:LB:372:THR:HA	46:LB:422:TYR:CE2	2.50	0.47
46:LD:207:LEU:HD23	46:LD:225:LEU:HB3	1.96	0.47
46:LF:86:ARG:NE	46:LF:86:ARG:HA	2.30	0.47
45:LI:298:PRO:HB3	45:LI:307:PRO:HD2	1.97	0.47
46:LJ:164:MET:HB3	46:LJ:197:ASP:H	1.78	0.47
45:LK:265:ILE:HG22	45:LK:380:ASN:HD21	1.79	0.47
45:LK:329:ASN:ND2	46:LN:208:TYR:CE2	2.83	0.47
47:LK:501:GTP:O2A	47:LK:501:GTP:H8	1.97	0.47
46:LL:6:HIS:O	46:LL:63:ALA:HA	2.15	0.47
46:LL:51:TYR:HE1	46:LL:61:PRO:HG3	1.80	0.47
46:LL:317:PHE:HB3	46:LL:321:MET:CE	2.45	0.47
46:LN:31:ASP:OD2	46:LN:33:THR:OG1	2.33	0.47
46:LN:253:LEU:HA	46:LN:350:LYS:HE2	1.95	0.47
45:MA:49:PHE:O	45:MA:53:PHE:N	2.34	0.47
45:MA:71:GLU:HB3	45:MA:98:ASP:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MC:171:ILE:HG13	45:MC:204:LEU:O	2.14	0.47
46:MD:294:PHE:CD2	46:MD:333:VAL:HG21	2.50	0.47
45:ME:171:ILE:HD11	45:ME:206:ASN:OD1	2.14	0.47
45:ME:223:THR:HG22	45:ME:224:TYR:H	1.79	0.47
45:ME:282:TYR:HE1	45:ME:371:VAL:HG22	1.80	0.47
45:ME:427:ALA:O	45:ME:430:LYS:HB3	2.15	0.47
45:MG:195:LEU:HD21	45:MG:264:ARG:HD2	1.97	0.47
46:MJ:179:VAL:HG23	46:MJ:180:VAL:HG23	1.95	0.47
45:MK:313:MET:HE1	45:MK:382:THR:HG22	1.96	0.47
45:MM:317:MET:HG2	45:MM:377:MET:HB3	1.96	0.47
45:MM:345:ASP:OD2	45:MM:346:TRP:N	2.48	0.47
46:MN:73:MET:HE1	46:MN:92:PHE:CD2	2.50	0.47
46:MN:148:GLY:O	46:MN:152:ILE:HG12	2.13	0.47
45:NC:219:ILE:HG13	45:NC:221:ARG:H	1.78	0.47
45:NC:222:PRO:HD2	46:ND:324:LYS:CE	2.44	0.47
46:NF:248:SER:HA	46:NF:252:LYS:HD2	1.97	0.47
45:NG:231:ILE:O	45:NG:235:ILE:HG12	2.15	0.47
45:NI:11:GLN:HG3	45:NI:74:VAL:HG11	1.97	0.47
45:NI:186:ASN:OD1	45:NI:187:SER:N	2.48	0.47
46:NJ:86:ARG:HA	46:OJ:281:TYR:CD2	2.50	0.47
46:NJ:200:MET:CE	46:NJ:266:PHE:HB2	2.43	0.47
45:NM:377:MET:HE3	45:NM:379:SER:OG	2.14	0.47
45:OA:210:TYR:HB3	45:OA:214:ARG:NH2	2.28	0.47
46:OB:83:GLN:O	46:PB:281:TYR:OH	2.16	0.47
46:OD:204:ASN:HB3	46:OD:208:TYR:CZ	2.50	0.47
46:OD:418:LEU:O	46:OD:422:TYR:HB2	2.15	0.47
45:OE:128:ASN:HD21	45:PE:285:GLN:HE22	1.63	0.47
45:OE:210:TYR:OH	46:OF:323:THR:OG1	2.33	0.47
46:OF:158:GLU:OE1	46:OF:158:GLU:N	2.47	0.47
46:OF:240:LEU:HD21	46:OF:249:ASP:HA	1.97	0.47
46:OH:9:GLY:HA2	46:OH:66:MET:O	2.15	0.47
46:OH:203:ASP:HB3	46:OH:301:CYS:HA	1.96	0.47
45:OI:202:VAL:HG12	45:OI:204:LEU:HG	1.96	0.47
46:OJ:285:THR:HB	46:OJ:287:PRO:HD2	1.96	0.47
46:OJ:298:ASN:HD22	46:OJ:298:ASN:C	2.22	0.47
46:OJ:350:LYS:NZ	46:OJ:351:SER:O	2.48	0.47
45:OK:27:GLU:HG3	45:OK:361:THR:HG21	1.95	0.47
45:OK:372:MET:N	45:OK:372:MET:SD	2.88	0.47
46:OL:324:LYS:O	46:OL:325:GLU:C	2.58	0.47
45:OM:177:VAL:HG13	46:ON:327:ASP:HB3	1.96	0.47
46:PB:248:SER:HA	46:PB:252:LYS:HD2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PC:71:GLU:OE1	46:PD:2:ARG:NH2	2.48	0.47
45:PC:200:VAL:HG13	45:PC:268:MET:CE	2.45	0.47
45:PC:263:PRO:HD3	46:PF:396:HIS:NE2	2.30	0.47
45:PE:8:HIS:HB2	45:PE:67:PHE:HD2	1.78	0.47
45:PE:167:LEU:HD13	45:PE:200:VAL:HB	1.95	0.47
46:PF:175:VAL:HG22	46:PF:205:GLU:HB3	1.96	0.47
45:PI:90:GLU:N	45:QI:280:LYS:HZ1	2.11	0.47
45:PI:141:VAL:HG22	45:PI:187:SER:HA	1.96	0.47
46:PJ:21:TRP:CZ2	46:PJ:63:ALA:HB2	2.49	0.47
45:PK:254:GLU:HA	45:PK:257:THR:OG1	2.15	0.47
45:PK:320:ARG:HB2	45:PK:358:GLN:O	2.14	0.47
46:PL:156:ARG:NH2	46:PL:160:PRO:O	2.48	0.47
46:PL:287:PRO:HG3	46:PL:329:GLN:NE2	2.29	0.47
45:PM:183:GLU:N	45:PM:184:PRO:HD2	2.29	0.47
46:PN:21:TRP:HA	46:PN:24:ILE:HG22	1.95	0.47
46:PN:259:PRO:HG3	46:PN:311:LEU:HD23	1.97	0.47
45:QA:55:GLU:OE1	45:QA:61:HIS:NE2	2.47	0.47
45:QA:188:ILE:HD11	45:QA:391:LEU:HB3	1.95	0.47
45:QA:214:ARG:HD2	45:QA:215:ARG:N	2.30	0.47
45:QC:20:CYS:HG	45:QC:21:TRP:CD1	2.33	0.47
45:QC:28:HIS:NE2	45:QC:48:ALA:O	2.48	0.47
45:QC:31:GLN:HG2	45:QC:35:GLN:O	2.15	0.47
45:QC:371:VAL:HG22	45:QC:373:ARG:H	1.78	0.47
46:QD:205:GLU:HG2	46:QD:206:ALA:N	2.29	0.47
46:QD:344:TRP:CD1	45:QE:401:LYS:HZ3	2.32	0.47
46:QD:375:GLN:HG3	46:QD:419:VAL:HG13	1.97	0.47
46:QF:375:GLN:HE21	46:QF:379:LYS:HE2	1.80	0.47
45:QG:141:VAL:HG22	45:QG:187:SER:HA	1.95	0.47
45:QG:208:ALA:O	45:QG:212:ILE:HG12	2.15	0.47
46:QH:167:PHE:CZ	46:QH:233:MET:HG3	2.50	0.47
45:QI:76:ASP:O	45:QI:80:THR:HG23	2.15	0.47
45:QI:184:PRO:O	45:QI:188:ILE:HG12	2.15	0.47
46:QJ:22:GLU:HG2	46:QJ:81:PHE:CD1	2.46	0.47
46:QJ:167:PHE:CD2	46:QJ:233:MET:HE1	2.49	0.47
45:QK:28:HIS:NE2	45:QK:48:ALA:O	2.48	0.47
46:QL:48:ASN:O	46:QL:62:ARG:NH1	2.44	0.47
46:QL:65:LEU:HD22	46:QL:90:PHE:CE1	2.49	0.47
46:QN:102:ALA:HB1	46:QN:401:GLU:HB2	1.95	0.47
45:RA:109:THR:HG22	45:RA:110:ILE:HG23	1.95	0.47
46:RB:31:ASP:OD2	46:RB:37:HIS:ND1	2.48	0.47
46:RD:21:TRP:CZ2	46:RD:63:ALA:HB2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RE:15:GLN:NE2	47:RE:501:GTP:O6	2.48	0.47
46:RF:259:PRO:HG2	46:RF:311:LEU:HD21	1.96	0.47
46:RF:321:MET:N	46:RF:321:MET:SD	2.87	0.47
46:RF:327:ASP:HA	46:RF:330:MET:HG2	1.96	0.47
46:RF:344:TRP:CD1	45:RG:401:LYS:HZ2	2.33	0.47
45:RG:102:ASN:HD21	45:RG:411:GLU:CD	2.23	0.47
45:RG:324:VAL:O	45:RG:328:VAL:HG23	2.15	0.47
46:RH:12:CYS:HA	46:RH:15:GLN:NE2	2.27	0.47
46:RH:272:PRO:HB3	46:RH:282:ARG:HH22	1.79	0.47
46:RH:344:TRP:HB3	46:RH:430:ALA:HB2	1.95	0.47
45:RI:64:ARG:NH1	45:RI:129:CYS:SG	2.88	0.47
45:RI:76:ASP:HA	45:RI:79:ARG:HH12	1.80	0.47
45:RI:265:ILE:HG12	45:RI:432:TYR:CE2	2.50	0.47
46:RL:249:ASP:OD1	46:RL:252:LYS:N	2.44	0.47
46:RL:350:LYS:HD3	45:RM:180:ALA:HA	1.96	0.47
46:RL:406:MET:HE2	46:RL:406:MET:N	2.30	0.47
46:RN:262:ARG:NH1	46:RN:421:GLU:OE1	2.47	0.47
46:SB:130:LEU:HD21	46:SB:133:PHE:CE2	2.50	0.47
46:SB:267:MET:HE2	46:SB:299:MET:HB3	1.97	0.47
45:SC:340:THR:HG23	45:SC:341:ILE:HG12	1.96	0.47
45:SE:166:LYS:N	45:SE:199:ASP:OD2	2.44	0.47
45:SE:229:ARG:NH2	45:SE:362:VAL:HG23	2.29	0.47
46:SF:318:ARG:HD3	46:SF:358:PRO:HD3	1.96	0.47
45:SG:85:GLN:OE1	45:SG:85:GLN:N	2.37	0.47
45:SG:407:TRP:H	45:SG:407:TRP:CD1	2.32	0.47
46:SH:97:ALA:HA	46:SH:103:LYS:HE2	1.97	0.47
46:SH:347:ASN:O	45:SI:181:VAL:HG12	2.14	0.47
45:SI:274:PRO:HG3	45:SI:286:LEU:HD12	1.95	0.47
46:SJ:334:GLN:HA	46:SJ:341:PHE:CE1	2.49	0.47
45:TC:10:GLY:O	45:TC:14:ILE:HG12	2.15	0.47
45:TC:98:ASP:OD1	45:TC:99:ALA:N	2.48	0.47
45:TC:141:VAL:HG12	45:TC:171:ILE:O	2.14	0.47
46:TD:213:ARG:HG3	46:TD:214:THR:HG23	1.97	0.47
45:TE:19:ALA:HA	45:TE:22:GLU:OE1	2.15	0.47
45:TE:352:LYS:NZ	46:TF:178:THR:HA	2.29	0.47
46:TF:270:PHE:HD2	46:TF:273:LEU:HD21	1.80	0.47
45:TG:19:ALA:HA	45:TG:22:GLU:OE1	2.15	0.47
45:TI:288:VAL:O	45:TI:292:THR:HG23	2.15	0.47
46:TJ:21:TRP:CZ3	46:TJ:61:PRO:HB3	2.50	0.47
45:TK:72:PRO:HA	45:TK:75:ILE:HD13	1.95	0.47
45:TK:141:VAL:HG12	45:TK:171:ILE:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TK:157:LEU:HA	45:TK:160:ASP:HB2	1.95	0.47
46:TL:282:ARG:HE	46:TL:283:ALA:H	1.61	0.47
45:TM:185:TYR:HE2	45:TM:404:PHE:HB2	1.80	0.47
45:UC:175:PRO:HA	45:UC:390:ARG:NE	2.29	0.47
46:UD:16:ILE:HD13	46:UD:226:ASN:OD1	2.15	0.47
45:UG:174:SER:OG	45:UG:207:GLU:HB2	2.15	0.47
46:UH:131:GLN:O	46:UH:163:ILE:HG12	2.14	0.47
45:UI:104:ALA:HA	45:UI:413:MET:HE2	1.97	0.47
45:UK:98:ASP:CG	45:UK:100:ALA:H	2.22	0.47
45:UK:223:THR:HG23	45:UK:225:THR:H	1.79	0.47
46:UL:86:ARG:HG3	46:UL:88:ASP:H	1.78	0.47
45:UM:104:ALA:HA	45:UM:413:MET:HE3	1.97	0.47
46:UN:285:THR:O	46:UN:288:GLU:HG3	2.14	0.47
45:VA:392:ASP:OD2	45:VA:425:LEU:HD22	2.14	0.47
46:VB:156:ARG:HD3	46:VB:164:MET:CE	2.45	0.47
45:VC:147:SER:HB2	45:VC:190:SER:HB3	1.96	0.47
45:VC:390:ARG:O	45:VC:394:LYS:HG3	2.14	0.47
46:VD:117:LEU:HA	46:VD:120:VAL:HG12	1.96	0.47
45:VE:7:ILE:HD13	45:VE:153:LEU:HD21	1.96	0.47
45:VE:103:PHE:H	45:VE:408:TYR:HE2	1.62	0.47
45:VG:318:MET:HE3	45:VG:376:CYS:SG	2.53	0.47
45:VI:210:TYR:HA	45:VI:213:CYS:SG	2.55	0.47
45:VK:5:ILE:HD12	45:VK:135:PHE:HE1	1.78	0.47
46:VL:405:GLU:OE2	46:VL:409:THR:OG1	2.31	0.47
46:VN:257:LEU:HD11	46:VN:314:SER:HB3	1.95	0.47
45:WA:100:ALA:HA	46:WB:252:LYS:CD	2.44	0.47
46:WB:101:TRP:HB3	46:WB:398:TYR:HE1	1.80	0.47
46:WB:139:LEU:HD13	46:WB:168:SER:HB3	1.96	0.47
46:WB:190:HIS:CD2	46:WB:411:ALA:HA	2.50	0.47
45:WC:133:GLN:HE21	45:WC:252:ILE:H	1.62	0.47
45:WE:100:ALA:HA	46:WF:252:LYS:HG2	1.96	0.47
45:WE:174:SER:HB3	45:WE:207:GLU:HG3	1.97	0.47
45:WG:340:THR:HG23	45:WG:341:ILE:HG13	1.97	0.47
45:WI:269:LEU:HD23	45:WI:379:SER:O	2.14	0.47
46:WJ:66:MET:HE2	46:WJ:147:MET:HE2	1.95	0.47
46:WJ:94:GLN:OE1	46:WJ:94:GLN:N	2.47	0.47
46:WJ:205:GLU:HA	46:WJ:208:TYR:HD2	1.79	0.47
46:WJ:287:PRO:HA	46:WJ:290:THR:HG22	1.96	0.47
45:WK:107:HIS:ND1	45:WK:107:HIS:O	2.48	0.47
45:WK:223:THR:HG23	45:WK:225:THR:H	1.79	0.47
45:WK:257:THR:HA	46:WN:397:TRP:CZ2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WM:222:PRO:HD2	46:WN:324:LYS:CE	2.43	0.47
46:WN:108:GLU:O	46:WN:111:GLU:HG3	2.14	0.47
6:0F:112:VAL:O	6:0F:116:GLU:OE1	2.33	0.47
7:0G:71:ASN:HA	7:0G:74:VAL:HG22	1.96	0.47
3:1C:55:LYS:HD2	3:1C:55:LYS:N	2.29	0.47
17:1F:152:HIS:NE2	46:GL:88:ASP:OD1	2.47	0.47
7:1G:103:THR:HG22	46:JB:355:ASP:HB2	1.96	0.47
19:1J:311:GLU:OE1	19:1J:311:GLU:N	2.40	0.47
21:1L:117:GLU:C	21:1L:119:LEU:H	2.23	0.47
21:1L:427:ASN:OD1	21:1L:431:ARG:HD2	2.15	0.47
24:1P:246:ILE:O	24:1P:250:ARG:HG3	2.14	0.47
10:1Q:17:ILE:HD12	10:1Q:17:ILE:HA	1.75	0.47
12:1T:36:GLU:OE2	12:1T:38:LYS:HB3	2.14	0.47
13:1U:332:TYR:CE2	13:1U:335:VAL:HG22	2.49	0.47
13:1U:527:MET:HG3	13:1U:529:ASP:OD1	2.14	0.47
15:1X:1:MET:HE1	45:ME:2:ARG:NE	2.30	0.47
1:2A:91:ASN:HA	46:MJ:37:HIS:HE1	1.79	0.47
27:2C:244:SER:OG	27:2C:246:SER:HB3	2.15	0.47
4:2D:99:ARG:NH2	45:EK:364:PRO:HA	2.28	0.47
4:2D:224:ARG:HH22	34:5R:492:ILE:HG23	1.78	0.47
29:2G:47:LYS:HG2	29:2G:50:ARG:NH2	2.29	0.47
30:2H:206:SER:O	30:2H:207:LYS:HB3	2.15	0.47
20:2K:289:LYS:HD3	20:2K:289:LYS:N	2.30	0.47
21:2L:676:ASN:OD1	21:2L:677:ILE:N	2.47	0.47
22:2M:106:LYS:NZ	22:2M:255:ASP:OD1	2.40	0.47
22:2M:280:PHE:HE1	22:2M:366:PHE:CE1	2.32	0.47
9:2N:20:SER:O	9:2N:24:GLU:HG2	2.15	0.47
23:2O:350:ASN:O	23:2O:354:LYS:HG3	2.15	0.47
12:2T:89:ILE:HD12	14:2V:182:ILE:HG22	1.96	0.47
13:2U:579:THR:O	13:2U:580:ARG:NH1	2.45	0.47
14:2V:44:SER:HA	45:LE:96:LYS:HD2	1.97	0.47
14:2V:190:ALA:O	14:2V:193:GLN:HG2	2.15	0.47
26:2W:190:VAL:HG21	26:2W:195:TRP:CD2	2.50	0.47
30:3H:194:LYS:HE2	30:3H:194:LYS:HA	1.97	0.47
31:3I:260:MET:HG2	31:3I:260:MET:O	2.14	0.47
31:3I:285:ARG:NH2	45:FG:55:GLU:HG2	2.30	0.47
21:3L:53:PHE:CD1	21:3L:65:LYS:HD2	2.50	0.47
25:3R:17:ILE:HD12	25:3R:17:ILE:H	1.80	0.47
13:3U:437:GLN:HG2	13:3U:438:THR:HG22	1.96	0.47
10:4Q:14:LEU:HB2	10:4Q:25:TRP:NE1	2.30	0.47
10:4Q:101:ARG:NH1	10:4Q:116:PRO:O	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:4R:13:PRO:HB3	46:LF:228:LEU:HD23	1.97	0.47
37:5E:129:ARG:HD3	37:5E:130:PRO:O	2.15	0.47
37:5F:69:LYS:HD3	37:5F:70:GLU:N	2.30	0.47
37:5H:44:ARG:NH1	45:OK:285:GLN:HA	2.28	0.47
34:7R:322:THR:OG1	34:7R:324:LYS:HG2	2.14	0.47
34:7R:432:SER:HA	34:7R:502:ARG:HH21	1.78	0.47
45:AA:98:ASP:OD2	45:AA:99:ALA:N	2.48	0.47
45:AA:384:ILE:O	45:AA:387:VAL:HG22	2.15	0.47
45:AA:439:THR:HG21	46:AD:390:ARG:HD2	1.96	0.47
45:AC:328:VAL:HG11	45:AC:353:VAL:HG11	1.97	0.47
45:AE:152:LEU:O	45:AE:156:ARG:HG2	2.15	0.47
46:AF:22:GLU:HG2	46:AF:81:PHE:CD1	2.50	0.47
46:AF:51:TYR:HE2	46:AF:61:PRO:HG3	1.80	0.47
45:AG:76:ASP:OD2	46:AH:46:ARG:NH2	2.47	0.47
45:AM:377:MET:HE1	45:AM:379:SER:HB3	1.97	0.47
46:AN:47:ILE:HD12	46:AN:47:ILE:H	1.79	0.47
45:BE:22:GLU:HG3	45:BE:83:TYR:OH	2.14	0.47
45:BE:215:ARG:NH2	45:BE:216:ASN:OD1	2.48	0.47
45:BI:227:LEU:O	45:BI:231:ILE:HG12	2.15	0.47
45:BI:287:SER:O	45:BI:290:GLU:HG2	2.14	0.47
46:BJ:132:GLY:HA3	46:BJ:163:ILE:HG22	1.95	0.47
46:BJ:180:VAL:O	46:BJ:180:VAL:HG12	2.15	0.47
46:BJ:273:LEU:H	46:BJ:292:GLN:NE2	2.13	0.47
45:BK:265:ILE:O	45:BK:265:ILE:HG13	2.14	0.47
45:BM:387:VAL:HG12	45:BM:390:ARG:NH1	2.30	0.47
45:CA:352:LYS:HD2	46:CB:178:THR:HA	1.97	0.47
45:CC:11:GLN:HA	45:CC:14:ILE:HD13	1.97	0.47
45:CC:328:VAL:HG11	45:CC:353:VAL:HG21	1.97	0.47
45:CG:3:GLU:HB2	45:CG:129:CYS:SG	2.55	0.47
45:CI:143:GLY:HA3	47:CI:501:GTP:O2B	2.15	0.47
45:CM:287:SER:HB3	45:CM:290:GLU:HG2	1.96	0.47
46:CN:116:VAL:HA	46:CN:119:VAL:HG12	1.96	0.47
46:CN:166:THR:HG21	46:CN:192:LEU:HD11	1.95	0.47
46:CN:372:THR:HA	46:CN:422:TYR:HE2	1.80	0.47
46:DD:183:TYR:CZ	46:DD:388:MET:HE2	2.50	0.47
46:DF:274:THR:HG22	46:DF:282:ARG:CZ	2.44	0.47
46:DH:119:VAL:HA	46:DH:122:LYS:HG2	1.96	0.47
46:DL:406:MET:O	46:DL:410:GLU:HG2	2.14	0.47
46:EB:52:ASN:OD1	46:EB:53:GLU:N	2.47	0.47
45:EC:269:LEU:HB2	45:EC:301:MET:HE1	1.96	0.47
45:EC:338:LYS:NZ	45:EC:340:THR:H	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EG:322:ASP:OD1	45:EG:373:ARG:NH1	2.46	0.47
46:EH:99:ASN:HA	46:EH:142:GLY:H	1.79	0.47
46:EH:228:LEU:HD11	46:EH:273:LEU:HD11	1.97	0.47
46:EH:416:ASN:OD1	46:EH:417:ASP:N	2.48	0.47
45:EK:280:LYS:HA	45:EK:283:HIS:ND1	2.30	0.47
45:EK:329:ASN:HB3	46:EL:175:VAL:HG12	1.97	0.47
46:EL:253:LEU:HD12	46:EL:257:LEU:HD13	1.96	0.47
45:EM:328:VAL:O	45:EM:332:ILE:HG12	2.15	0.47
45:FE:141:VAL:HG12	45:FE:171:ILE:O	2.14	0.47
45:FE:301:MET:HA	45:FE:301:MET:HE3	1.97	0.47
45:FI:407:TRP:CZ2	46:FJ:258:ILE:HD11	2.47	0.47
46:GB:313:ALA:HB1	46:GB:367:PHE:HE1	1.79	0.47
46:GH:218:THR:HG23	46:GH:219:THR:HG23	1.97	0.47
46:GJ:19:LYS:HD3	46:GJ:19:LYS:HA	1.78	0.47
46:GJ:326:VAL:O	46:GJ:330:MET:HG2	2.15	0.47
46:HB:3:GLU:HB2	46:HB:62:ARG:NH2	2.29	0.47
45:HE:257:THR:HG22	46:HH:397:TRP:CH2	2.49	0.47
45:HG:334:THR:O	45:HG:338:LYS:HG2	2.15	0.47
45:HG:352:LYS:HZ2	45:HG:353:VAL:C	2.21	0.47
46:HJ:376:GLU:O	46:HJ:380:ARG:HG2	2.15	0.47
45:HK:88:HIS:CD2	45:HK:90:GLU:H	2.32	0.47
46:HN:372:THR:HA	46:HN:422:TYR:HE2	1.80	0.47
45:IC:74:VAL:HA	45:IC:77:GLU:HG3	1.97	0.47
45:IC:209:ILE:HD11	45:IC:302:MET:HB3	1.96	0.47
45:IG:174:SER:HB2	45:IG:177:VAL:O	2.15	0.47
45:IG:434:GLU:O	45:IG:437:ILE:HG12	2.14	0.47
46:IH:31:ASP:OD1	46:IH:35:THR:N	2.43	0.47
45:II:89:PRO:HD3	46:JJ:281:TYR:CD1	2.48	0.47
46:IJ:294:PHE:HD2	46:IJ:333:VAL:HG21	1.79	0.47
46:IL:378:PHE:HB3	46:IL:415:MET:HE3	1.97	0.47
45:IM:270:SER:O	45:IM:302:MET:HG3	2.14	0.47
46:IN:362:LYS:HD3	46:IN:363:MET:CE	2.44	0.47
46:JB:148:GLY:O	46:JB:152:ILE:HG13	2.15	0.47
46:JB:292:GLN:NE2	46:JB:298:ASN:OD1	2.46	0.47
45:JE:241:SER:OG	45:JE:249:ASN:OD1	2.30	0.47
46:JF:86:ARG:NH2	46:KF:281:TYR:O	2.45	0.47
46:JH:222:TYR:O	46:JH:226:ASN:ND2	2.23	0.47
46:JJ:2:ARG:HD2	46:JJ:240:LEU:HG	1.96	0.47
46:JL:256:ASN:O	46:JL:312:THR:HG21	2.14	0.47
45:KC:75:ILE:O	45:KC:79:ARG:HG3	2.15	0.47
46:KD:174:LYS:HB2	46:KD:205:GLU:OE1	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KE:81:GLY:O	45:KE:84:ARG:HG3	2.15	0.47
45:KI:27:GLU:OE2	45:KI:28:HIS:CD2	2.68	0.47
45:KI:183:GLU:N	45:KI:184:PRO:HD2	2.29	0.47
46:KL:286:VAL:HG21	46:KL:325:GLU:HG3	1.95	0.47
46:KL:372:THR:HG21	46:KL:426:GLN:HB2	1.97	0.47
45:KM:96:LYS:HD3	46:KN:1:MET:HE1	1.97	0.47
45:KM:178:SER:HB3	46:KN:347:ASN:ND2	2.30	0.47
45:LE:271:SER:HB2	45:LE:301:MET:HE3	1.96	0.47
45:LG:296:PHE:HE2	45:LG:335:ILE:HG21	1.79	0.47
45:LI:426:ALA:O	45:LI:429:GLU:HG3	2.13	0.47
45:LK:265:ILE:HG21	45:LK:313:MET:HE1	1.97	0.47
45:MC:282:TYR:OH	45:MC:371:VAL:HA	2.14	0.47
46:MD:101:TRP:HB2	46:MD:184:ASN:HB3	1.96	0.47
45:ME:339:ARG:HD3	45:ME:339:ARG:O	2.15	0.47
46:MF:192:LEU:HD21	46:MF:199:CYS:HB2	1.96	0.47
45:MG:251:ASP:OD1	45:MG:252:ILE:N	2.48	0.47
45:MI:98:ASP:OD1	45:MI:99:ALA:N	2.48	0.47
46:MJ:19:LYS:NZ	46:MJ:227:HIS:HB2	2.30	0.47
46:MJ:104:GLY:O	46:MJ:147:MET:N	2.48	0.47
45:MM:103:PHE:HB2	45:MM:186:ASN:HB3	1.97	0.47
46:MN:112:LEU:HD22	46:MN:147:MET:HE1	1.97	0.47
45:NA:205:ASP:OD1	45:NA:303:ALA:HA	2.15	0.47
46:ND:145:SER:HB2	46:ND:188:SER:HB3	1.97	0.47
46:NF:102:ALA:HB2	46:NF:403:MET:HE3	1.97	0.47
45:NG:19:ALA:HA	45:NG:22:GLU:HG2	1.97	0.47
45:NG:91:GLN:HB3	45:NG:121:ARG:CZ	2.44	0.47
45:NI:150:GLY:O	45:NI:154:LEU:HG	2.14	0.47
45:NI:256:GLN:H	45:NI:256:GLN:CD	2.22	0.47
45:NM:392:ASP:OD1	45:NM:422:ARG:NE	2.48	0.47
46:OB:122:LYS:NZ	46:PB:291:GLN:OE1	2.48	0.47
45:OC:254:GLU:OE2	46:OF:98:GLY:HA2	2.15	0.47
45:OE:112:LYS:HA	45:OE:115:VAL:HG22	1.95	0.47
45:OG:88:HIS:HB3	45:OG:91:GLN:OE1	2.15	0.47
45:OG:208:ALA:O	45:OG:212:ILE:HG12	2.14	0.47
46:OH:379:LYS:HE3	46:OH:379:LYS:HB2	1.75	0.47
46:OJ:49:VAL:HG11	46:OJ:241:ARG:HG2	1.97	0.47
46:OJ:66:MET:HA	46:OJ:91:VAL:O	2.14	0.47
45:OK:203:MET:HG3	45:OK:384:ILE:HD11	1.97	0.47
45:OM:224:TYR:HD2	46:ON:323:THR:HG21	1.80	0.47
46:ON:68:LEU:HD21	46:ON:147:MET:HE1	1.96	0.47
46:PD:267:MET:HE2	46:PD:299:MET:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PH:345:ILE:O	46:PH:345:ILE:HG13	2.15	0.47
45:PI:221:ARG:HA	45:PI:221:ARG:NE	2.30	0.47
46:PJ:39:ASP:OD1	46:PJ:40:SER:N	2.48	0.47
46:PJ:268:ILE:HG13	46:PJ:300:MET:HG3	1.96	0.47
45:PM:408:TYR:O	45:PM:413:MET:HG3	2.15	0.47
46:PN:245:GLN:OE1	46:PN:246:LEU:HD12	2.15	0.47
45:QA:314:ALA:HB3	45:QA:380:ASN:OD1	2.15	0.47
46:QB:87:PRO:HA	46:QB:90:PHE:CE1	2.50	0.47
46:QF:6:HIS:O	46:QF:63:ALA:HA	2.14	0.47
46:QF:208:TYR:CE2	46:QF:225:LEU:HD11	2.50	0.47
45:QG:69:ASP:OD1	45:QG:70:LEU:N	2.48	0.47
45:QG:313:MET:HB3	45:QG:380:ASN:O	2.15	0.47
46:QJ:20:PHE:HA	46:QJ:230:SER:HB2	1.97	0.47
45:RA:141:VAL:HG11	45:RA:172:TYR:CD1	2.50	0.47
46:RB:116:VAL:O	46:RB:120:VAL:HG23	2.15	0.47
45:RC:288:VAL:O	45:RC:291:ILE:HG22	2.15	0.47
45:RE:395:PHE:CD1	45:RE:422:ARG:HD3	2.50	0.47
46:RF:54:ALA:HB3	46:RF:58:ARG:HG2	1.96	0.47
46:RF:405:GLU:HA	46:RF:408:PHE:CD2	2.50	0.47
45:RG:203:MET:O	45:RG:302:MET:HE1	2.15	0.47
46:RH:2:ARG:HG3	46:RH:240:LEU:HD11	1.97	0.47
45:RI:268:MET:HG2	45:RI:380:ASN:HB2	1.97	0.47
46:SD:99:ASN:HA	46:SD:142:GLY:H	1.79	0.47
46:SH:299:MET:HG3	46:SH:301:CYS:H	1.79	0.47
45:SI:11:GLN:HG3	45:SI:74:VAL:HG11	1.96	0.47
45:SI:133:GLN:O	45:SI:165:SER:OG	2.33	0.47
46:SJ:317:PHE:HD1	46:SJ:365:VAL:HG22	1.80	0.47
45:SK:245:ASP:OD2	45:SK:245:ASP:N	2.42	0.47
46:SN:16:ILE:HD12	46:SN:229:VAL:HG11	1.97	0.47
45:TA:288:VAL:HG11	45:TA:327:ASP:HB3	1.96	0.47
45:TC:118:CYS:O	45:TC:122:ILE:HG12	2.15	0.47
46:TD:202:ILE:HD11	46:TD:207:LEU:HD21	1.95	0.47
45:TE:75:ILE:HD12	45:TE:75:ILE:H	1.79	0.47
45:TI:336:LYS:HD3	45:TI:351:PHE:CE2	2.49	0.47
46:TL:266:PHE:CE1	46:TL:370:ASN:HB2	2.49	0.47
45:TM:335:ILE:O	45:TM:338:LYS:HG2	2.15	0.47
46:UB:303:ALA:HB2	46:UB:377:MET:HE1	1.97	0.47
46:UB:372:THR:HA	46:UB:422:TYR:CE2	2.50	0.47
45:UE:356:ASN:OD1	45:UE:357:TYR:N	2.48	0.47
46:UL:68:LEU:HD23	46:UL:147:MET:HE3	1.96	0.47
46:UL:325:GLU:OE2	46:UL:325:GLU:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UM:240:ALA:HB3	45:UM:320:ARG:NH2	2.30	0.47
46:VB:226:ASN:HD21	49:VB:501:GDP:HN1	1.63	0.47
45:VG:68:LEU:HD21	45:VG:149:LEU:HD12	1.97	0.47
46:VH:330:MET:N	46:VH:330:MET:HE2	2.29	0.47
46:VJ:178:THR:HG22	46:VJ:180:VAL:H	1.80	0.47
45:VK:280:LYS:HG3	45:VK:283:HIS:HB2	1.97	0.47
46:VN:119:VAL:HA	46:VN:122:LYS:HG2	1.96	0.47
45:WE:337:THR:O	45:WE:339:ARG:NH1	2.47	0.47
45:WE:372:MET:SD	45:WE:373:ARG:HD3	2.55	0.47
46:WF:108:GLU:O	46:WF:111:GLU:HG3	2.15	0.47
45:WK:14:ILE:HD12	45:WK:67:PHE:HB3	1.97	0.47
45:WK:134:GLY:HA2	45:WK:164:LYS:HE3	1.95	0.47
45:WK:207:GLU:HA	45:WK:210:TYR:CD2	2.50	0.47
46:WL:45:GLU:HG3	46:WL:46:ARG:CD	2.44	0.47
45:WM:10:GLY:O	45:WM:14:ILE:HG12	2.13	0.47
45:WM:185:TYR:O	45:WM:189:LEU:HG	2.14	0.47
45:CE:22:GLU:HG3	45:CE:83:TYR:OH	2.15	0.47
45:CE:384:ILE:O	45:CE:387:VAL:HG22	2.15	0.47
6:0F:75:ARG:HG3	6:0F:76:PHE:CD2	2.49	0.47
6:0F:89:LEU:HD23	6:0F:89:LEU:H	1.80	0.47
7:0G:45:MET:HG2	7:0G:49:TYR:CD2	2.50	0.47
8:0H:357:LYS:NZ	8:0H:361:ARG:HH22	2.12	0.47
9:0N:249:LEU:HD23	46:KN:77:ARG:HH11	1.79	0.47
9:0N:257:LYS:NZ	9:0N:259:ILE:HA	2.30	0.47
13:0U:68:LYS:HG3	13:0U:69:TYR:CD1	2.50	0.47
1:1A:112:LEU:HG	25:1R:40:ASN:OD1	2.15	0.47
1:1A:125:LEU:N	46:AF:276:ARG:HH12	2.13	0.47
16:1B:474:PHE:O	16:1B:478:VAL:HG23	2.14	0.47
3:1C:121:LEU:HD11	45:DM:22:GLU:OE1	2.15	0.47
4:1D:135:LYS:O	4:1D:138:GLN:HG3	2.15	0.47
4:1D:171:LEU:HB2	4:1D:172:PRO:HD2	1.97	0.47
5:1E:30:ALA:HB1	5:1E:51:VAL:CG2	2.44	0.47
17:1F:57:GLN:N	17:1F:57:GLN:OE1	2.48	0.47
7:1G:113:ILE:HB	7:1G:118:GLN:HE21	1.79	0.47
8:1H:218:ASN:HA	8:1H:221:TYR:CD1	2.49	0.47
8:1H:218:ASN:HA	8:1H:221:TYR:HD1	1.80	0.47
8:1H:231:MET:HG3	8:1H:239:ARG:NH2	2.30	0.47
19:1J:318:PRO:HB2	19:1J:320:ILE:O	2.15	0.47
21:1L:567:ILE:HA	21:1L:579:VAL:HG21	1.96	0.47
21:1L:836:GLU:OE1	21:1L:837:LYS:N	2.48	0.47
24:1P:192:ASN:HB3	46:TH:360:GLY:HA2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:1P:258:GLU:HA	24:1P:261:GLU:CD	2.39	0.47
11:1S:307:LYS:NZ	11:1S:313:TYR:O	2.35	0.47
13:1U:468:SER:OG	13:1U:469:ALA:N	2.48	0.47
27:2C:157:PHE:CE2	27:2C:159:LYS:HE3	2.50	0.47
4:2D:161:LYS:HG3	4:2D:162:VAL:N	2.30	0.47
21:2L:525:LEU:CD2	46:BN:362:LYS:HB3	2.45	0.47
9:2N:43:VAL:O	9:2N:47:LYS:HG3	2.14	0.47
23:2O:458:GLN:O	23:2O:462:MET:HG2	2.15	0.47
24:2P:379:LYS:HG3	24:2P:380:ARG:HG3	1.96	0.47
24:2P:413:LYS:O	24:2P:416:GLN:HG3	2.15	0.47
10:2Q:92:GLN:HB3	10:2Q:153:ARG:HB2	1.96	0.47
25:2R:87:LEU:HD12	45:MG:85:GLN:HE22	1.80	0.47
25:2R:212:ASP:N	25:2R:212:ASP:OD1	2.48	0.47
12:2T:8:GLU:OE1	12:2T:38:LYS:NZ	2.45	0.47
26:2W:225:ARG:HH22	27:4C:14:ARG:HB3	1.80	0.47
1:3A:19:ARG:HG2	1:3A:20:PRO:CD	2.41	0.47
16:3B:264:ASP:OD1	16:3B:267:GLU:HG2	2.14	0.47
27:3C:119:LYS:NZ	27:3C:121:ALA:HB3	2.29	0.47
23:3O:421:LYS:HZ2	23:3O:422:LYS:HE3	1.79	0.47
25:3R:13:PRO:HD2	15:3X:84:LEU:HD23	1.97	0.47
25:3R:467:ASN:OD1	25:3R:468:ARG:N	2.48	0.47
13:3U:380:GLY:HA3	13:3U:408:VAL:HB	1.97	0.47
34:4R:89:ASP:OD2	34:4R:90:ARG:N	2.48	0.47
34:4R:512:THR:O	34:4R:516:MET:HG2	2.14	0.47
35:4S:148:LYS:O	35:4S:152:THR:HG23	2.14	0.47
36:5B:79:LEU:O	36:5B:83:THR:HG23	2.15	0.47
37:5E:54:LYS:NZ	46:OB:224:ASP:HA	2.29	0.47
37:5F:143:GLY:HA2	46:OH:280:GLN:OE1	2.14	0.47
10:5Q:21:PRO:HG2	10:5Q:36:ARG:HD3	1.97	0.47
10:5Q:26:ASP:HB2	10:5Q:63:ALA:HA	1.96	0.47
34:5R:419:GLN:HB3	34:5R:448:CYS:SG	2.54	0.47
35:5S:153:LYS:HA	35:5S:158:MET:CE	2.45	0.47
39:6F:66:ASN:OD1	39:6F:67:SER:N	2.48	0.47
10:6Q:90:GLU:HG2	10:6Q:155:GLN:HB3	1.97	0.47
34:6R:85:TRP:H	34:6R:85:TRP:CD1	2.33	0.47
34:6R:311:LYS:N	34:6R:327:GLU:O	2.41	0.47
45:AC:121:ARG:HH12	45:AC:124:LYS:HD2	1.80	0.47
45:AI:317:MET:HB3	45:AI:377:MET:HG2	1.97	0.47
46:AJ:3:GLU:H	46:AJ:3:GLU:CD	2.23	0.47
46:AN:345:ILE:HG22	46:AN:348:ASN:HB3	1.97	0.47
45:BA:89:PRO:HD2	45:CA:280:LYS:HE3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BC:172:TYR:HE2	45:BC:203:MET:HE1	1.79	0.47
46:BD:19:LYS:HE2	46:BD:22:GLU:OE2	2.15	0.47
45:BG:393:HIS:O	45:BG:397:LEU:HD23	2.15	0.47
45:BI:288:VAL:HA	45:BI:291:ILE:HG12	1.97	0.47
45:BK:231:ILE:O	45:BK:235:ILE:HG12	2.14	0.47
46:BL:130:LEU:HB3	46:BL:162:ARG:HD2	1.97	0.47
45:BM:217:LEU:O	45:BM:219:ILE:HG23	2.15	0.47
46:BN:42:LEU:HD22	46:BN:356:ILE:HD11	1.97	0.47
46:BN:86:ARG:CZ	46:BN:87:PRO:HD2	2.45	0.47
46:CD:12:CYS:O	46:CD:16:ILE:HG12	2.15	0.47
46:CD:217:LEU:HD12	46:CD:220:PRO:HD3	1.97	0.47
46:CF:177:ASP:O	45:CE:352:LYS:HA	2.15	0.47
46:CH:375:GLN:HG2	46:CH:376:GLU:OE1	2.15	0.47
45:CI:90:GLU:OE2	45:CI:121:ARG:NH2	2.48	0.47
46:DB:134:GLN:NE2	46:DB:165:GLU:OE2	2.48	0.47
46:DB:158:GLU:HG2	46:DB:159:TYR:CD1	2.50	0.47
45:DG:2:ARG:HG3	45:DG:242:LEU:HD21	1.97	0.47
45:DG:89:PRO:HG2	45:EG:280:LYS:NZ	2.30	0.47
45:DG:408:TYR:HA	45:DG:411:GLU:OE2	2.14	0.47
45:DI:203:MET:HA	45:DI:203:MET:HE2	1.97	0.47
46:DJ:210:ILE:HD13	46:DJ:298:ASN:HA	1.95	0.47
45:DK:207:GLU:HA	45:DK:210:TYR:CD2	2.50	0.47
45:EA:288:VAL:HG11	45:EA:327:ASP:HB3	1.96	0.47
45:EC:141:VAL:HG12	45:EC:171:ILE:O	2.14	0.47
46:ED:324:LYS:HE2	45:EE:210:TYR:HD1	1.80	0.47
45:EE:206:ASN:O	45:EE:210:TYR:HD2	1.98	0.47
46:EF:221:THR:HG23	46:EF:223:GLY:H	1.79	0.47
45:EG:69:ASP:O	45:EG:94:SER:HA	2.15	0.47
45:EG:229:ARG:HH11	45:EG:366:GLY:HA2	1.79	0.47
45:EK:328:VAL:O	45:EK:331:SER:OG	2.20	0.47
46:EL:406:MET:HE2	46:EL:406:MET:HA	1.97	0.47
45:EM:169:PHE:HD1	45:EM:202:VAL:HB	1.80	0.47
45:EM:269:LEU:HD11	45:EM:384:ILE:HG12	1.97	0.47
45:FA:315:CYS:SG	45:FA:377:MET:HE2	2.55	0.47
46:FB:313:ALA:HB1	46:FB:367:PHE:CE1	2.50	0.47
45:FE:183:GLU:N	45:FE:184:PRO:HD2	2.30	0.47
46:FF:310:TYR:CD1	46:FF:371:SER:HB3	2.50	0.47
46:FH:378:PHE:HA	46:FH:381:VAL:HG12	1.97	0.47
46:FH:398:TYR:HB3	46:FH:403:MET:HE3	1.97	0.47
45:FI:280:LYS:HA	45:FI:283:HIS:ND1	2.30	0.47
45:FK:394:LYS:NZ	46:FL:346:PRO:HG2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FL:65:LEU:HD22	46:FL:90:PHE:HE1	1.80	0.47
46:FL:260:PHE:HB2	46:FL:263:LEU:HD12	1.97	0.47
45:GC:322:ASP:OD1	45:GC:373:ARG:NH1	2.48	0.47
45:GE:172:TYR:OH	45:GE:191:THR:HG22	2.15	0.47
45:GE:176:GLN:NE2	45:GE:177:VAL:HG23	2.29	0.47
45:GI:174:SER:HB2	45:GI:177:VAL:O	2.15	0.47
45:GK:387:VAL:HA	45:GK:390:ARG:HG2	1.97	0.47
46:GN:301:CYS:SG	46:GN:302:ALA:N	2.87	0.47
46:GN:406:MET:O	46:GN:410:GLU:OE1	2.33	0.47
45:HA:54:SER:HB3	45:HA:64:ARG:HE	1.79	0.47
45:HA:68:LEU:HD21	45:HA:118:CYS:SG	2.55	0.47
45:HC:209:ILE:HG23	45:HC:227:LEU:HD22	1.97	0.47
45:HI:17:GLY:HA2	45:HI:20:CYS:SG	2.55	0.47
46:HJ:117:LEU:HA	46:HJ:120:VAL:HG12	1.96	0.47
45:HK:205:ASP:HB2	45:HK:303:ALA:HA	1.96	0.47
46:HL:201:VAL:O	46:HL:202:ILE:HD13	2.13	0.47
46:IB:152:ILE:HG23	46:IB:164:MET:HE3	1.96	0.47
46:ID:139:LEU:HD13	46:ID:168:SER:HB3	1.97	0.47
46:ID:409:THR:O	46:ID:412:GLU:HG3	2.15	0.47
46:IJ:145:SER:OG	46:IJ:188:SER:HB3	2.15	0.47
45:IK:434:GLU:O	45:IK:437:ILE:HG12	2.14	0.47
45:JA:329:ASN:HA	45:JA:332:ILE:HG22	1.97	0.47
45:JC:222:PRO:HD2	46:JD:324:LYS:HD3	1.96	0.47
45:JC:287:SER:H	45:JC:290:GLU:CD	2.23	0.47
46:JF:150:LEU:O	46:JF:154:LYS:HG2	2.14	0.47
45:JG:317:MET:O	45:JG:318:MET:HE2	2.15	0.47
46:JH:330:MET:HE2	46:JH:330:MET:HA	1.97	0.47
45:JI:67:PHE:HB2	45:JI:92:LEU:HD13	1.96	0.47
46:JJ:201:VAL:HG13	46:JJ:301:CYS:SG	2.54	0.47
45:KA:384:ILE:O	45:KA:387:VAL:HG22	2.14	0.47
45:KE:183:GLU:N	45:KE:184:PRO:HD2	2.29	0.47
45:KE:269:LEU:HG	45:KE:301:MET:CE	2.45	0.47
46:KF:127:CYS:SG	46:KF:130:LEU:HB2	2.55	0.47
46:KH:6:HIS:HE1	46:KH:8:GLN:HB3	1.80	0.47
46:KH:16:ILE:HD13	46:KH:226:ASN:OD1	2.15	0.47
45:KI:331:SER:O	45:KI:335:ILE:HG12	2.15	0.47
45:KK:183:GLU:N	45:KK:184:PRO:HD2	2.30	0.47
45:KM:224:TYR:CD1	47:KM:501:GTP:C6	3.03	0.47
46:KN:182:PRO:HD2	46:KN:388:MET:HE1	1.97	0.47
46:KN:375:GLN:HG3	46:KN:379:LYS:HZ2	1.79	0.47
46:LB:279:GLN:OE1	46:LB:279:GLN:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LC:260:VAL:HG23	46:LF:397:TRP:HE1	1.79	0.47
46:LD:212:PHE:CE1	46:LD:220:PRO:HG2	2.49	0.47
45:LG:205:ASP:OD2	45:LG:303:ALA:HA	2.15	0.47
45:LK:329:ASN:ND2	46:LN:208:TYR:HE2	2.13	0.47
46:LN:103:LYS:HA	46:LN:107:THR:HG22	1.96	0.47
46:LN:344:TRP:CE3	46:LN:345:ILE:HG23	2.50	0.47
46:MB:137:HIS:HE1	46:MB:166:THR:OG1	1.96	0.47
46:MB:180:VAL:HG12	46:MB:180:VAL:O	2.15	0.47
45:ME:137:VAL:HG12	45:ME:167:LEU:O	2.15	0.47
45:MI:372:MET:N	45:MI:372:MET:SD	2.88	0.47
45:MK:113:GLU:OE1	45:MK:113:GLU:N	2.45	0.47
45:MM:337:THR:O	45:MM:339:ARG:NH1	2.48	0.47
45:NA:203:MET:HE3	45:NA:267:PHE:HB3	1.97	0.47
45:NC:177:VAL:HG12	46:ND:331:LEU:HD22	1.97	0.47
46:ND:96:GLY:O	46:ND:103:LYS:NZ	2.48	0.47
46:ND:180:VAL:HG22	46:ND:394:PHE:HD2	1.79	0.47
46:NH:262:ARG:NH1	46:NH:421:GLU:OE2	2.48	0.47
46:NH:330:MET:HE2	46:NH:349:ILE:HG21	1.97	0.47
45:NK:108:TYR:O	45:NK:112:LYS:NZ	2.30	0.47
46:NL:296:ALA:HB1	46:NL:305:PRO:HG2	1.96	0.47
45:NM:167:LEU:HG	45:NM:200:VAL:HB	1.97	0.47
45:NM:319:TYR:HB3	45:NM:323:VAL:HG11	1.95	0.47
45:OA:96:LYS:HD3	45:OA:96:LYS:N	2.29	0.47
45:OA:105:ARG:NH1	46:OB:251:ARG:HH21	2.12	0.47
46:OD:200:MET:CE	46:OD:266:PHE:HB2	2.45	0.47
46:OD:226:ASN:OD1	49:OD:501:GDP:N1	2.44	0.47
46:OD:344:TRP:CE3	46:OD:345:ILE:HG23	2.50	0.47
45:OG:7:ILE:HD11	45:OG:122:ILE:HD12	1.97	0.47
46:OH:140:GLY:HA2	46:OH:181:GLU:OE1	2.15	0.47
46:OL:406:MET:SD	46:OL:407:GLU:N	2.88	0.47
46:ON:398:TYR:HB3	46:ON:403:MET:HG2	1.97	0.47
45:PA:205:ASP:OD1	45:PA:303:ALA:HA	2.15	0.47
46:PD:333:VAL:HA	46:PD:336:LYS:HG2	1.97	0.47
45:PE:331:SER:O	45:PE:335:ILE:HG12	2.15	0.47
46:PF:86:ARG:HG3	46:PF:88:ASP:OD2	2.14	0.47
46:PF:406:MET:O	46:PF:410:GLU:HG2	2.14	0.47
45:PG:332:ILE:O	45:PG:336:LYS:HG2	2.15	0.47
46:PJ:167:PHE:HE2	46:PJ:233:MET:HE3	1.79	0.47
45:PK:192:HIS:ND1	45:PK:424:ASP:OD2	2.48	0.47
45:PK:227:LEU:O	45:PK:231:ILE:HG12	2.15	0.47
45:PM:96:LYS:HZ1	46:PN:129:CYS:HB3	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PM:288:VAL:HA	45:PM:291:ILE:HG22	1.96	0.47
45:QA:261:PRO:HG3	46:QB:394:PHE:CE2	2.50	0.47
46:QD:201:VAL:HG13	46:QD:301:CYS:SG	2.55	0.47
45:QE:261:PRO:HA	46:QF:394:PHE:CD1	2.49	0.47
45:QG:103:PHE:HD2	45:QG:413:MET:HE1	1.80	0.47
45:QG:236:SER:HA	45:QG:239:THR:HG22	1.97	0.47
46:QH:318:ARG:HH11	46:QH:358:PRO:HG3	1.79	0.47
45:QI:261:PRO:HG3	46:QJ:394:PHE:CE1	2.50	0.47
45:QK:17:GLY:HA2	45:QK:20:CYS:SG	2.54	0.47
45:RA:101:ASN:HA	45:RA:144:GLY:H	1.80	0.47
45:RA:184:PRO:O	45:RA:188:ILE:HG12	2.15	0.47
46:RB:189:VAL:O	46:RB:193:VAL:HG13	2.15	0.47
46:RD:406:MET:SD	46:RD:406:MET:N	2.88	0.47
46:RF:320:ARG:HA	46:RF:320:ARG:HD2	1.65	0.47
45:RG:109:THR:HG22	45:RG:110:ILE:HG23	1.97	0.47
46:RJ:3:GLU:HG3	46:RJ:62:ARG:NH1	2.29	0.47
46:RJ:203:ASP:OD1	46:RJ:205:GLU:HG3	2.14	0.47
46:RN:282:ARG:NH2	46:RN:292:GLN:OE1	2.43	0.47
45:SA:188:ILE:HD11	45:SA:391:LEU:HB3	1.96	0.47
45:SA:212:ILE:HD11	45:SA:300:ASN:HA	1.97	0.47
46:SB:298:ASN:O	46:SB:298:ASN:ND2	2.47	0.47
46:SF:117:LEU:HA	46:SF:120:VAL:HG22	1.96	0.47
45:SI:275:ILE:HA	45:SI:368:LEU:HD11	1.97	0.47
45:SK:336:LYS:O	45:SK:339:ARG:NH2	2.47	0.47
45:SM:90:GLU:HG2	45:SM:121:ARG:HH12	1.80	0.47
46:SN:105:HIS:CE1	46:SN:150:LEU:HD12	2.49	0.47
46:TB:303:ALA:HB2	46:TB:377:MET:HE1	1.97	0.47
45:TC:184:PRO:O	45:TC:188:ILE:HG12	2.15	0.47
45:TE:74:VAL:HA	45:TE:77:GLU:OE2	2.15	0.47
45:TE:192:HIS:HD2	45:TE:421:ALA:HA	1.80	0.47
46:TF:318:ARG:HB2	46:TF:364:ALA:HB3	1.97	0.47
45:TG:286:LEU:N	45:TG:290:GLU:OE2	2.47	0.47
45:TG:419:SER:O	45:TG:422:ARG:N	2.48	0.47
46:TJ:377:MET:O	46:TJ:381:VAL:HG23	2.14	0.47
45:TK:98:ASP:OD2	45:TK:99:ALA:N	2.48	0.47
46:TL:406:MET:O	46:TL:410:GLU:HG3	2.15	0.47
45:UC:298:PRO:HA	45:UC:301:MET:HE1	1.97	0.47
45:UG:227:LEU:O	45:UG:231:ILE:HG12	2.15	0.47
45:UI:370:LYS:NZ	45:UI:372:MET:HE1	2.30	0.47
45:UM:118:CYS:O	45:UM:122:ILE:HG12	2.14	0.47
45:UM:251:ASP:HB3	45:UM:254:GLU:HG3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VA:2:ARG:NH2	46:VD:70:PRO:HD2	2.29	0.47
45:VA:179:THR:C	46:VB:350:LYS:HZ3	2.23	0.47
45:VE:98:ASP:OD1	45:VE:99:ALA:N	2.48	0.47
45:VE:167:LEU:HG	45:VE:200:VAL:HB	1.96	0.47
46:VH:18:ALA:O	46:VH:22:GLU:HG3	2.15	0.47
46:VH:310:TYR:CD1	46:VH:371:SER:HB2	2.49	0.47
45:VI:36:MET:HE1	45:VI:38:SER:HA	1.96	0.47
46:VJ:152:ILE:HD12	46:VJ:164:MET:HE2	1.97	0.47
45:VK:430:LYS:O	45:VK:433:GLU:HG3	2.14	0.47
45:WA:349:THR:OG1	46:WD:176:SER:OG	2.16	0.47
45:WE:155:GLU:HA	45:WE:197:HIS:CE1	2.49	0.47
45:WE:259:LEU:HD21	45:WE:316:SER:HB3	1.96	0.47
46:WH:9:GLY:HA2	46:WH:66:MET:O	2.15	0.47
45:WI:107:HIS:ND1	45:WI:107:HIS:O	2.48	0.47
46:WJ:232:ALA:HB1	46:WJ:268:ILE:HD12	1.97	0.47
46:WN:420:SER:O	46:WN:423:GLN:HG3	2.14	0.47
1:0A:3:GLN:HE21	34:7R:7:LYS:C	2.23	0.47
5:0E:28:ALA:O	5:0E:32:ARG:HG2	2.15	0.47
6:0F:112:VAL:O	6:0F:115:LEU:HB3	2.14	0.47
7:0G:146:LYS:HG3	7:0G:147:HIS:ND1	2.29	0.47
10:0Q:81:LYS:HB2	10:0Q:129:TRP:CE2	2.50	0.47
13:0U:493:PHE:O	13:0U:494:LYS:HD3	2.14	0.47
13:0U:557:VAL:HG11	13:0U:581:LEU:HD21	1.96	0.47
14:0V:86:ARG:HH12	46:LN:414:ASN:ND2	2.12	0.47
8:1H:39:GLU:N	8:1H:39:GLU:OE1	2.48	0.47
8:1H:76:LYS:O	8:1H:80:ARG:HG3	2.15	0.47
8:1H:253:LEU:HD13	45:HE:364:PRO:HD3	1.97	0.47
19:1J:138:PHE:HD2	45:IE:282:TYR:HE2	1.62	0.47
19:1J:302:PHE:HE1	45:IK:280:LYS:HE2	1.80	0.47
20:1K:89:ARG:O	20:1K:92:GLU:HG3	2.15	0.47
21:1L:858:LEU:O	21:1L:861:ARG:HG3	2.14	0.47
24:1P:155:PHE:HA	24:1P:158:LYS:NZ	2.30	0.47
25:1R:471:ASN:N	25:1R:477:GLU:O	2.45	0.47
13:1U:189:PHE:HE1	13:1U:227:PHE:HB3	1.79	0.47
14:1V:224:GLN:OE1	14:1V:224:GLN:HA	2.15	0.47
26:1W:55:CYS:HB2	15:4X:131:MET:HE1	1.96	0.47
31:2I:96:TRP:CH2	46:GF:291:GLN:HG2	2.50	0.47
20:2K:362:GLN:O	20:2K:366:GLU:OE1	2.32	0.47
21:2L:688:MET:HE2	21:2L:688:MET:HA	1.96	0.47
21:2L:901:LYS:NZ	46:CJ:320:ARG:HH12	2.13	0.47
22:2M:262:PHE:CD1	22:2M:310:GLN:HB2	2.51	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:2P:381:PHE:CZ	45:TM:372:MET:HE3	2.49	0.47
13:2U:120:LEU:HD22	13:2U:152:ILE:HG23	1.96	0.47
26:2W:239:ARG:HE	26:2W:242:LEU:HD12	1.79	0.47
15:2X:49:ILE:HD11	45:MI:282:TYR:H	1.80	0.47
16:3B:185:PHE:O	16:3B:188:ILE:HG22	2.15	0.47
5:3E:143:PHE:CZ	5:3E:147:LEU:HD11	2.49	0.47
23:3O:271:ALA:C	23:3O:275:LYS:HZ2	2.23	0.47
23:3O:272:ILE:O	23:3O:276:GLN:HG3	2.15	0.47
23:3O:345:GLU:O	23:3O:349:ARG:HG3	2.14	0.47
25:3R:216:TRP:CG	46:BN:276:ARG:HH12	2.33	0.47
11:3S:46:TRP:CD1	11:3S:47:LYS:H	2.33	0.47
11:3S:83:ASP:O	11:3S:85:GLN:HG2	2.15	0.47
12:3T:41:PHE:CE1	12:3T:167:ALA:HB1	2.50	0.47
12:3T:45:PHE:HZ	12:3T:171:PHE:CG	2.32	0.47
14:3V:172:LYS:O	14:3V:176:GLN:HG2	2.15	0.47
10:4Q:102:ARG:NE	45:AI:430:LYS:HE3	2.30	0.47
36:5C:29:GLN:C	36:5C:30:LYS:HD3	2.39	0.47
37:5H:55:GLU:O	37:5H:59:THR:OG1	2.30	0.47
34:7R:336:CYS:HA	34:7R:349:ILE:HB	1.97	0.47
45:AC:283:HIS:HD2	45:MC:60:LYS:NZ	2.12	0.47
46:AD:73:MET:CE	46:AD:92:PHE:HB3	2.45	0.47
45:AE:195:LEU:HD23	45:AE:196:GLU:HG3	1.97	0.47
46:AF:9:GLY:HA2	46:AF:66:MET:O	2.15	0.47
46:AJ:372:THR:HA	46:AJ:422:TYR:CE2	2.46	0.47
45:AM:332:ILE:HG22	45:AM:336:LYS:HE2	1.96	0.47
46:BB:268:ILE:HD12	46:BB:368:VAL:HG22	1.97	0.47
46:BB:372:THR:HA	46:BB:422:TYR:CE2	2.48	0.47
45:BC:319:TYR:CD1	45:BC:375:VAL:HG22	2.50	0.47
45:BG:107:HIS:O	45:BG:107:HIS:ND1	2.48	0.47
46:BH:316:LEU:HG	46:BH:352:SER:HB2	1.96	0.47
46:BL:5:VAL:HG12	46:BL:62:ARG:HD2	1.96	0.47
46:BN:238:CYS:HB2	46:BN:318:ARG:NH2	2.30	0.47
45:CA:261:PRO:HA	46:CB:394:PHE:CD1	2.49	0.47
45:CA:269:LEU:HD23	45:CA:379:SER:O	2.15	0.47
45:CI:71:GLU:HB3	45:CI:98:ASP:OD2	2.15	0.47
45:CI:324:VAL:HG11	45:CI:326:LYS:HZ2	1.80	0.47
46:CJ:86:ARG:CZ	46:CJ:87:PRO:HD2	2.44	0.47
45:CK:328:VAL:O	45:CK:332:ILE:HG12	2.15	0.47
46:CL:164:MET:HB3	46:CL:197:ASP:H	1.80	0.47
45:CM:121:ARG:HE	45:CM:124:LYS:HE2	1.79	0.47
46:CN:105:HIS:CE1	46:CN:150:LEU:HD12	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DE:107:HIS:ND1	45:DE:107:HIS:O	2.48	0.47
46:DF:256:ASN:HB3	46:DF:257:LEU:HD12	1.95	0.47
45:DG:319:TYR:HE1	45:DG:328:VAL:HG13	1.80	0.47
46:DH:248:SER:HA	46:DH:252:LYS:HD2	1.96	0.47
46:DJ:347:ASN:O	45:DK:181:VAL:HG23	2.15	0.47
46:DJ:404:ASP:OD2	46:DJ:406:MET:HE2	2.15	0.47
45:DK:105:ARG:O	45:DK:110:ILE:HG22	2.15	0.47
45:DM:268:MET:HG2	45:DM:378:ILE:HG22	1.97	0.47
46:EF:91:VAL:HG21	46:EF:116:VAL:HB	1.97	0.47
46:EF:101:TRP:HB2	46:EF:184:ASN:HB3	1.97	0.47
46:EH:254:ALA:O	46:EH:258:ILE:HG12	2.15	0.47
46:EH:293:MET:SD	46:EH:365:VAL:HG11	2.55	0.47
45:EI:101:ASN:HA	45:EI:144:GLY:H	1.79	0.47
46:EL:254:ALA:O	46:EL:258:ILE:HG12	2.15	0.47
46:EN:398:TYR:HB3	46:EN:403:MET:SD	2.55	0.47
45:FA:140:SER:OG	47:FA:501:GTP:O2B	2.33	0.47
46:FF:238:CYS:HB2	46:FF:318:ARG:HE	1.80	0.47
46:FH:31:ASP:OD1	46:FH:35:THR:N	2.45	0.47
46:FH:184:ASN:OD1	46:FH:185:ALA:N	2.48	0.47
45:FI:80:THR:O	45:FI:84:ARG:NH2	2.46	0.47
46:FL:119:VAL:O	46:FL:122:LYS:HB3	2.15	0.47
46:GB:316:LEU:HD13	46:GB:352:SER:HB3	1.96	0.47
46:GD:87:PRO:HA	46:GD:90:PHE:HD2	1.80	0.47
46:GF:175:VAL:HG22	46:GF:205:GLU:HG3	1.97	0.47
46:GF:318:ARG:HH11	46:GF:358:PRO:HG3	1.80	0.47
45:GG:3:GLU:OE2	45:GG:129:CYS:HB3	2.14	0.47
45:GK:384:ILE:O	45:GK:387:VAL:HG22	2.15	0.47
45:GM:141:VAL:HG22	45:GM:187:SER:HA	1.97	0.47
45:GM:231:ILE:O	45:GM:235:ILE:HG12	2.15	0.47
46:HD:116:VAL:HA	46:HD:119:VAL:HG12	1.97	0.47
45:HE:200:VAL:HG13	45:HE:268:MET:HE2	1.96	0.47
46:HF:347:ASN:C	46:HF:347:ASN:HD22	2.23	0.47
45:HI:224:TYR:HE2	46:HJ:246:LEU:HD11	1.79	0.47
46:IB:227:HIS:HD1	46:IB:227:HIS:C	2.23	0.47
46:IF:167:PHE:CE2	46:IF:233:MET:HG2	2.50	0.47
46:IH:65:LEU:HD22	46:IH:90:PHE:CE1	2.50	0.47
45:IK:136:LEU:HD23	45:IK:167:LEU:HB2	1.97	0.47
45:IK:345:ASP:OD1	45:IK:346:TRP:N	2.48	0.47
45:IM:183:GLU:N	45:IM:184:PRO:HD2	2.29	0.47
45:IM:210:TYR:HB3	46:IN:324:LYS:NZ	2.30	0.47
46:IN:6:HIS:HA	46:IN:134:GLN:HE21	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:IN:117:LEU:HA	46:IN:120:VAL:HG12	1.97	0.47
45:JA:439:THR:HB	46:JD:391:ARG:HH11	1.80	0.47
46:JB:6:HIS:O	46:JB:63:ALA:HA	2.14	0.47
45:JK:221:ARG:HA	46:JL:324:LYS:NZ	2.30	0.47
45:JM:24:PHE:HA	45:JM:27:GLU:HG3	1.97	0.47
45:KA:68:LEU:HD11	45:KA:118:CYS:SG	2.54	0.47
45:KA:422:ARG:NH1	45:KA:426:ALA:HB2	2.30	0.47
46:KB:77:ARG:HH12	46:KB:83:GLN:HA	1.79	0.47
46:KB:203:ASP:HB3	46:KB:301:CYS:HA	1.97	0.47
45:KC:269:LEU:HD13	45:KC:301:MET:HE2	1.96	0.47
46:KD:192:LEU:HD21	46:KD:199:CYS:SG	2.55	0.47
46:KF:12:CYS:SG	46:KF:169:VAL:HG21	2.54	0.47
45:KG:37:PRO:O	45:KG:39:ASP:N	2.43	0.47
45:KG:411:GLU:OE2	45:KG:411:GLU:N	2.47	0.47
46:KN:22:GLU:HG2	46:KN:81:PHE:CD1	2.50	0.47
45:LA:69:ASP:OD1	45:LA:70:LEU:N	2.47	0.47
45:LA:107:HIS:O	45:LA:107:HIS:ND1	2.48	0.47
45:LA:223:THR:HG22	45:LA:224:TYR:N	2.29	0.47
46:LB:344:TRP:CE3	46:LB:345:ILE:HG23	2.50	0.47
45:LC:51:THR:HG23	45:LC:52:PHE:CD2	2.50	0.47
46:LD:156:ARG:HG2	46:LD:164:MET:HE2	1.97	0.47
46:LH:73:MET:SD	46:LH:92:PHE:HB3	2.55	0.47
46:LH:344:TRP:CE3	46:LH:345:ILE:HG23	2.50	0.47
45:LI:395:PHE:HZ	45:LI:418:PHE:HB3	1.79	0.47
46:LJ:183:TYR:CD1	46:LJ:385:PHE:HE1	2.33	0.47
45:LK:221:ARG:HH22	46:LL:320:ARG:HH21	1.63	0.47
46:LL:5:VAL:HG12	46:LL:62:ARG:HD3	1.97	0.47
45:LM:173:PRO:HB3	45:LM:183:GLU:HG3	1.96	0.47
45:LM:377:MET:HA	45:LM:377:MET:HE2	1.96	0.47
45:MC:259:LEU:HB3	45:MC:268:MET:SD	2.54	0.47
46:MD:5:VAL:HA	46:MD:62:ARG:HG3	1.97	0.47
45:MG:183:GLU:N	45:MG:184:PRO:HD2	2.30	0.47
45:MG:407:TRP:CZ2	46:MH:258:ILE:HD11	2.49	0.47
45:MI:88:HIS:HB3	45:MI:91:GLN:HG2	1.97	0.47
46:MJ:173:PRO:HG2	46:MJ:380:ARG:HE	1.79	0.47
46:ML:257:LEU:HD21	46:ML:314:SER:HB2	1.96	0.47
45:MM:36:MET:O	45:MM:38:SER:N	2.48	0.47
45:MM:174:SER:HB2	45:MM:177:VAL:O	2.14	0.47
46:MN:70:PRO:HA	46:MN:73:MET:HE2	1.97	0.47
46:NB:237:THR:HG23	46:NB:241:ARG:NH1	2.30	0.47
45:NC:398:MET:HE1	46:ND:345:ILE:HD12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ND:1:MET:HE3	46:ND:2:ARG:N	2.30	0.47
46:NH:52:ASN:OD1	46:NH:62:ARG:NH2	2.48	0.47
45:NM:101:ASN:HA	45:NM:144:GLY:H	1.80	0.47
45:OE:70:LEU:HD13	45:OE:95:GLY:HA3	1.97	0.47
45:OE:128:ASN:ND2	45:PE:285:GLN:HE22	2.13	0.47
46:OF:86:ARG:HB3	46:OF:89:ASN:ND2	2.29	0.47
45:OG:65:ALA:O	45:OG:91:GLN:NE2	2.48	0.47
46:OH:149:THR:OG1	46:OH:191:GLN:HB2	2.14	0.47
46:OL:263:LEU:HD22	46:OL:422:TYR:CD1	2.49	0.47
45:OM:320:ARG:HG3	45:OM:374:ALA:HB3	1.96	0.47
45:PC:329:ASN:O	45:PC:332:ILE:HG22	2.16	0.47
46:PD:20:PHE:O	46:PD:24:ILE:HG12	2.15	0.47
46:PF:203:ASP:HB3	46:PF:205:GLU:CD	2.40	0.47
45:PG:8:HIS:HB2	45:PG:67:PHE:HD2	1.79	0.47
45:PG:171:ILE:HG23	45:PG:204:LEU:O	2.15	0.47
45:PI:227:LEU:O	45:PI:231:ILE:HG12	2.15	0.47
45:PI:259:LEU:HD11	45:PI:316:SER:OG	2.15	0.47
46:PJ:150:LEU:O	46:PJ:154:LYS:HG2	2.14	0.47
45:PK:427:ALA:HA	45:PK:430:LYS:HG2	1.96	0.47
46:QB:318:ARG:HH11	46:QB:358:PRO:HG3	1.79	0.47
45:QE:188:ILE:HG23	45:QE:425:LEU:HD11	1.96	0.47
45:QG:15:GLN:HE22	45:QG:228:ASN:CG	2.22	0.47
46:QH:210:ILE:O	46:QH:214:THR:HG22	2.15	0.47
45:QI:352:LYS:NZ	46:QJ:178:THR:HG23	2.30	0.47
46:QJ:275:SER:OG	46:QJ:278:SER:OG	2.28	0.47
46:QJ:417:ASP:O	46:QJ:421:GLU:HG3	2.14	0.47
46:QL:116:VAL:HA	46:QL:119:VAL:HG22	1.96	0.47
45:RC:133:GLN:HB3	45:RC:252:ILE:HD13	1.96	0.47
45:RG:69:ASP:OD1	45:RG:70:LEU:N	2.48	0.47
45:RI:105:ARG:O	45:RI:109:THR:OG1	2.31	0.47
46:RJ:21:TRP:CZ2	46:RJ:63:ALA:HB2	2.49	0.47
46:RL:248:SER:OG	46:RL:252:LYS:HD2	2.15	0.47
46:RL:313:ALA:HB1	46:RL:367:PHE:CE1	2.50	0.47
45:RM:211:ASP:HA	45:RM:214:ARG:CZ	2.45	0.47
46:RN:16:ILE:HD12	46:RN:229:VAL:HG11	1.96	0.47
45:SC:68:LEU:HD13	45:SC:93:ILE:HB	1.97	0.47
46:SD:262:ARG:HH12	46:SD:421:GLU:HG3	1.80	0.47
46:SF:16:ILE:HG21	46:SF:136:THR:HG21	1.97	0.47
46:SH:324:LYS:HZ1	45:SI:214:ARG:HB3	1.79	0.47
46:SL:3:GLU:O	46:SL:131:GLN:N	2.34	0.47
46:SL:201:VAL:HG13	46:SL:301:CYS:SG	2.55	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SL:213:ARG:HH12	46:SL:297:LYS:HB3	1.79	0.47
46:SL:268:ILE:HG22	46:SL:368:VAL:HA	1.97	0.47
46:SN:267:MET:HB2	46:SN:299:MET:HE2	1.96	0.47
46:TB:45:GLU:OE1	46:TB:46:ARG:HG3	2.15	0.47
45:TC:419:SER:O	45:TC:422:ARG:HB2	2.15	0.47
45:TE:188:ILE:HG21	45:TE:422:ARG:HH12	1.80	0.47
46:TF:391:ARG:HA	46:TF:391:ARG:HD2	1.78	0.47
46:TH:67:ASP:OD1	46:TH:68:LEU:N	2.47	0.47
46:TN:10:GLY:O	46:TN:14:ASN:ND2	2.48	0.47
46:UB:193:VAL:HG22	46:UB:262:ARG:HH21	1.79	0.47
46:UB:317:PHE:CE2	46:UB:326:VAL:HG13	2.49	0.47
46:UF:16:ILE:HD12	46:UF:229:VAL:HG11	1.96	0.47
45:UG:19:ALA:HA	45:UG:22:GLU:OE1	2.15	0.47
46:UH:290:THR:HA	46:UH:293:MET:HE3	1.96	0.47
45:UK:183:GLU:N	45:UK:184:PRO:HD2	2.30	0.47
46:UL:267:MET:SD	46:UL:301:CYS:HB3	2.55	0.47
45:VE:90:GLU:HB2	45:WE:280:LYS:HZ2	1.79	0.47
45:VG:175:PRO:HD2	45:VG:207:GLU:OE2	2.14	0.47
46:VH:3:GLU:CD	46:VH:3:GLU:H	2.23	0.47
46:VH:379:LYS:HD3	46:VH:419:VAL:HG11	1.95	0.47
46:VJ:285:THR:O	46:VJ:288:GLU:HG3	2.14	0.47
46:VJ:293:MET:HG2	46:VJ:365:VAL:HG11	1.97	0.47
45:WA:54:SER:HB3	45:WA:64:ARG:NE	2.29	0.47
45:WE:134:GLY:HA2	45:WE:164:LYS:HE2	1.97	0.47
46:WF:122:LYS:HD2	46:WF:122:LYS:C	2.40	0.47
46:WH:4:ILE:HG13	46:WH:132:GLY:O	2.15	0.47
46:WH:125:GLU:OE1	46:WH:159:TYR:OH	2.33	0.47
45:WI:322:ASP:OD2	45:WI:373:ARG:NH1	2.47	0.47
46:WJ:150:LEU:O	46:WJ:154:LYS:NZ	2.47	0.47
45:WM:180:ALA:HA	46:WN:350:LYS:NZ	2.25	0.47
45:CE:75:ILE:HD12	45:CE:92:LEU:HB3	1.97	0.47
1:0A:25:LYS:HA	1:0A:25:LYS:HD3	1.79	0.46
1:0A:136:ASN:HA	46:AB:320:ARG:HH12	1.81	0.46
2:0B:76:PHE:HD2	46:JH:362:LYS:HZ3	1.63	0.46
4:0D:161:LYS:HG3	4:0D:162:VAL:N	2.30	0.46
6:0F:64:TYR:O	6:0F:65:LYS:HG2	2.14	0.46
7:0G:112:LYS:HD3	45:JM:364:PRO:HB2	1.96	0.46
10:0Q:39:ASP:HB3	10:0Q:42:ILE:O	2.14	0.46
11:0S:86:ALA:HA	13:0U:308:GLU:HG2	1.96	0.46
11:0S:310:ILE:O	11:0S:310:ILE:HG13	2.14	0.46
13:0U:261:VAL:HG13	13:0U:310:LEU:HD13	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:0X:56:LYS:O	15:0X:59:ARG:HG2	2.15	0.46
15:0X:91:LYS:O	15:0X:95:ILE:HG12	2.15	0.46
5:1E:46:ASP:O	5:1E:50:ILE:HG12	2.15	0.46
21:1L:129:SER:HA	21:1L:192:LEU:HD12	1.97	0.46
21:1L:524:ARG:HG2	21:1L:592:PHE:CZ	2.45	0.46
22:1M:7:ILE:HG13	22:1M:77:ALA:HB3	1.96	0.46
23:1O:242:LEU:HD13	46:UB:276:ARG:O	2.15	0.46
24:1P:200:LEU:HA	24:1P:200:LEU:HD23	1.69	0.46
25:1R:390:ASP:OD1	46:ED:218:THR:OG1	2.33	0.46
11:1S:256:LEU:HD13	11:1S:259:PHE:CD1	2.49	0.46
13:1U:129:MET:O	13:1U:142:GLY:HA2	2.15	0.46
13:1U:448:HIS:NE2	13:1U:468:SER:HB2	2.30	0.46
26:1W:243:ILE:HG13	26:1W:244:ASN:N	2.30	0.46
15:1X:18:ILE:HD11	46:MH:81:PHE:CE1	2.50	0.46
27:2C:157:PHE:HE2	27:2C:159:LYS:HE3	1.80	0.46
4:2D:77:ASN:HB2	46:EJ:362:LYS:NZ	2.30	0.46
31:2I:45:LYS:HE2	46:GH:336:LYS:HD3	1.96	0.46
21:2L:583:ASP:OD2	21:2L:584:PHE:N	2.47	0.46
21:2L:633:ALA:O	21:2L:636:ARG:HD3	2.15	0.46
10:2Q:17:ILE:HD11	10:2Q:163:ARG:HH21	1.80	0.46
10:2Q:48:GLU:CG	10:2Q:161:ARG:HG2	2.45	0.46
13:2U:62:THR:HG21	13:2U:108:LEU:HB2	1.97	0.46
13:2U:303:TYR:HB3	13:2U:305:ILE:HD11	1.97	0.46
26:2W:255:GLN:NE2	26:2W:259:GLU:OE2	2.38	0.46
15:2X:70:TYR:CD1	46:MJ:362:LYS:HG2	2.50	0.46
27:3C:106:PHE:HA	27:3C:109:LYS:HG2	1.98	0.46
32:3D:29:TYR:HE1	32:3D:55:CYS:HB3	1.79	0.46
30:3H:218:HIS:C	45:MG:84:ARG:HH22	2.22	0.46
21:3L:168:HIS:HB2	21:3L:206:VAL:O	2.15	0.46
10:3Q:105:ALA:HA	10:3Q:121:MET:O	2.15	0.46
11:3S:111:LYS:NZ	46:MN:158:GLU:HB2	2.30	0.46
13:3U:194:ARG:NH1	46:WN:78:ALA:O	2.49	0.46
13:3U:203:PRO:HD3	13:3U:246:LEU:HD23	1.97	0.46
33:4F:23:LYS:HD3	33:4F:26:ARG:CZ	2.45	0.46
10:4Q:76:LEU:HB3	10:4Q:134:PHE:HB3	1.96	0.46
34:4R:416:MET:HE1	34:4R:450:ASP:HB3	1.96	0.46
34:4R:552:LEU:O	34:4R:556:ILE:HD12	2.14	0.46
34:4R:581:THR:O	34:4R:585:ILE:HG12	2.15	0.46
35:4S:158:MET:O	35:4S:162:LEU:HD23	2.15	0.46
15:4X:76:GLU:HG3	34:5R:5:LEU:HD23	1.96	0.46
34:5R:229:ASN:O	34:5R:233:GLU:HG2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:5S:163:LYS:NZ	35:5S:211:ASN:HB2	2.31	0.46
34:7R:152:LYS:HG2	34:7R:160:TYR:CE1	2.50	0.46
34:7R:189:GLU:HA	34:7R:192:VAL:HG12	1.97	0.46
44:8R:125:TYR:CE1	45:PI:279:GLU:HA	2.50	0.46
46:AB:16:ILE:HD13	46:AB:226:ASN:OD1	2.15	0.46
46:AD:32:PRO:HA	46:AD:84:LEU:HD11	1.95	0.46
45:AE:68:LEU:HD11	45:AE:118:CYS:SG	2.56	0.46
46:AF:4:ILE:HG13	46:AF:132:GLY:O	2.15	0.46
46:AF:372:THR:HA	46:AF:422:TYR:CE2	2.42	0.46
45:BC:174:SER:HB2	45:BC:177:VAL:O	2.14	0.46
45:BG:141:VAL:HG11	45:BG:172:TYR:CD1	2.50	0.46
45:BI:372:MET:N	45:BI:372:MET:SD	2.88	0.46
46:BJ:175:VAL:HG22	46:BJ:205:GLU:HB3	1.97	0.46
46:BJ:179:VAL:HG23	46:BJ:180:VAL:HG23	1.97	0.46
45:BK:108:TYR:HA	45:BK:112:LYS:HE3	1.97	0.46
46:BL:11:GLN:O	46:BL:15:GLN:HG2	2.16	0.46
46:BL:238:CYS:SG	46:BL:239:CYS:N	2.88	0.46
46:BL:343:GLU:OE2	46:BL:430:ALA:N	2.43	0.46
45:BM:192:HIS:CD2	45:BM:421:ALA:HA	2.50	0.46
45:CA:224:TYR:HD1	45:CA:227:LEU:HD12	1.80	0.46
46:CD:207:LEU:HD13	46:CD:225:LEU:HB3	1.98	0.46
46:DB:46:ARG:HG2	46:DB:241:ARG:HA	1.97	0.46
46:DD:132:GLY:HA3	46:DD:163:ILE:HG22	1.96	0.46
45:DG:207:GLU:HA	45:DG:210:TYR:CD2	2.50	0.46
45:DI:386:GLU:O	45:DI:390:ARG:HG3	2.15	0.46
46:DJ:258:ILE:HD11	45:DK:407:TRP:CZ2	2.50	0.46
46:DJ:286:VAL:O	46:DJ:329:GLN:NE2	2.48	0.46
46:DJ:344:TRP:CE3	46:DJ:345:ILE:HG12	2.50	0.46
45:DK:5:ILE:HB	45:DK:135:PHE:HD1	1.79	0.46
45:DK:268:MET:HE3	45:DK:379:SER:C	2.40	0.46
45:DM:319:TYR:CD2	45:DM:328:VAL:HG22	2.50	0.46
46:DN:133:PHE:HB2	46:DN:164:MET:SD	2.55	0.46
45:EA:140:SER:OG	47:EA:501:GTP:O2B	2.32	0.46
45:EC:362:VAL:HG12	45:EC:370:LYS:HZ3	1.79	0.46
46:ED:11:GLN:HB3	46:ED:72:THR:HG21	1.97	0.46
46:ED:342:VAL:HG13	46:ED:345:ILE:HG22	1.96	0.46
45:EE:141:VAL:HG12	45:EE:171:ILE:O	2.16	0.46
45:EI:303:ALA:O	45:EI:305:CYS:N	2.46	0.46
45:EI:430:LYS:O	45:EI:433:GLU:HG3	2.15	0.46
46:EL:143:THR:OG1	46:EL:144:GLY:N	2.47	0.46
45:FC:387:VAL:HA	45:FC:390:ARG:HG2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FE:175:PRO:HG2	45:FE:304:LYS:NZ	2.30	0.46
45:FG:241:SER:OG	45:FG:250:VAL:O	2.32	0.46
45:FI:417:GLU:HA	45:FI:420:GLU:OE2	2.15	0.46
46:FJ:268:ILE:HG22	46:FJ:368:VAL:HG22	1.96	0.46
45:FM:171:ILE:HG23	45:FM:204:LEU:O	2.15	0.46
46:FN:66:MET:HE1	46:FN:116:VAL:HG11	1.96	0.46
46:GB:87:PRO:HA	46:GB:90:PHE:HD2	1.79	0.46
46:GB:152:ILE:HD13	46:GB:164:MET:HE2	1.96	0.46
45:GG:3:GLU:OE2	45:GG:131:GLY:N	2.47	0.46
46:GH:31:ASP:OD2	46:GH:37:HIS:NE2	2.47	0.46
45:GI:288:VAL:HA	45:GI:291:ILE:HG12	1.95	0.46
45:GI:401:LYS:HB2	45:GI:401:LYS:HE3	1.71	0.46
45:GK:192:HIS:CD2	45:GK:421:ALA:HA	2.50	0.46
45:GK:194:LEU:O	45:GK:198:THR:HG22	2.15	0.46
45:HA:31:GLN:NE2	45:HA:35:GLN:HB3	2.30	0.46
45:HE:222:PRO:HD2	46:HF:324:LYS:CD	2.45	0.46
46:HH:3:GLU:CD	46:HH:3:GLU:H	2.23	0.46
45:HI:256:GLN:O	45:HI:260:VAL:HG12	2.15	0.46
45:HK:210:TYR:HD1	46:HL:324:LYS:HD3	1.80	0.46
46:HN:154:LYS:O	46:HN:157:GLU:HG2	2.15	0.46
46:HN:186:THR:HG23	46:HN:415:MET:HG3	1.96	0.46
45:IA:248:LEU:HB3	45:IA:355:ILE:HG12	1.97	0.46
45:IC:434:GLU:O	45:IC:437:ILE:HG12	2.15	0.46
46:ID:86:ARG:HG3	45:JA:283:HIS:HB3	1.97	0.46
46:ID:257:LEU:HD11	46:ID:314:SER:HB2	1.97	0.46
46:IF:25:SER:OG	46:IF:30:ILE:O	2.33	0.46
46:IH:102:ALA:HB1	46:IH:401:GLU:HB2	1.97	0.46
45:IK:147:SER:HB2	45:IK:190:SER:OG	2.15	0.46
45:JA:214:ARG:NH2	45:JA:215:ARG:HB3	2.29	0.46
45:JA:214:ARG:HH22	45:JA:215:ARG:HB3	1.81	0.46
45:JA:417:GLU:N	45:JA:417:GLU:OE1	2.46	0.46
46:JB:154:LYS:O	46:JB:157:GLU:HG3	2.15	0.46
46:JF:113:ILE:HA	46:JF:116:VAL:HG22	1.97	0.46
46:JL:406:MET:HE1	46:NL:306:ARG:HB2	1.96	0.46
46:KD:100:ASN:HD21	46:KD:397:TRP:HB3	1.80	0.46
46:KD:269:GLY:HA2	46:KD:300:MET:HE3	1.96	0.46
45:KE:32:PRO:HB3	45:KE:83:TYR:HE1	1.80	0.46
45:KG:26:LEU:HD11	45:KG:364:PRO:HD2	1.97	0.46
45:KI:288:VAL:HA	45:KI:291:ILE:HG12	1.96	0.46
46:KJ:51:TYR:HB3	46:KJ:59:TYR:HB3	1.97	0.46
45:KK:88:HIS:HB3	45:KK:91:GLN:HG2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KK:319:TYR:HE2	45:KK:328:VAL:HG22	1.80	0.46
45:KM:77:GLU:OE2	45:KM:77:GLU:HA	2.15	0.46
45:LC:222:PRO:O	46:LD:322:SER:HB2	2.14	0.46
45:LE:205:ASP:OD2	45:LE:303:ALA:HA	2.14	0.46
46:LF:377:MET:N	46:LF:377:MET:HE2	2.30	0.46
45:LG:289:ALA:O	45:LG:293:ASN:ND2	2.30	0.46
45:LM:102:ASN:ND2	45:LM:105:ARG:HG3	2.30	0.46
46:LN:1:MET:SD	46:LN:2:ARG:NH1	2.84	0.46
45:MA:231:ILE:O	45:MA:235:ILE:HG12	2.14	0.46
46:MB:210:ILE:O	46:MB:214:THR:OG1	2.26	0.46
45:MC:1:MET:SD	45:MC:2:ARG:NH2	2.88	0.46
46:MD:32:PRO:HA	46:MD:84:LEU:HD11	1.97	0.46
46:MD:318:ARG:HH11	46:MD:358:PRO:HG3	1.80	0.46
45:MM:177:VAL:HG22	46:MN:331:LEU:HD22	1.97	0.46
45:NA:68:LEU:HD11	45:NA:118:CYS:HB2	1.97	0.46
45:NA:77:GLU:HA	45:NA:80:THR:OG1	2.15	0.46
46:ND:67:ASP:OD2	46:ND:73:MET:HE3	2.15	0.46
46:ND:199:CYS:O	46:ND:265:PHE:HA	2.15	0.46
46:ND:268:ILE:HG22	46:ND:368:VAL:HG22	1.96	0.46
45:NE:287:SER:N	45:NE:290:GLU:OE2	2.48	0.46
46:NH:66:MET:HA	46:NH:91:VAL:O	2.15	0.46
46:NJ:248:SER:HA	46:NJ:252:LYS:HD2	1.97	0.46
45:NM:17:GLY:HA2	45:NM:20:CYS:SG	2.55	0.46
46:NN:64:ILE:HA	46:NN:89:ASN:HB3	1.97	0.46
45:OA:87:PHE:HB3	45:OA:91:GLN:HE21	1.80	0.46
45:OA:137:VAL:HG23	45:OA:168:GLY:HA2	1.96	0.46
45:OC:85:GLN:N	45:OC:85:GLN:OE1	2.49	0.46
45:OE:169:PHE:CE2	45:OE:235:ILE:HD12	2.50	0.46
46:OH:113:ILE:HG21	46:OH:150:LEU:HD22	1.97	0.46
45:OI:257:THR:HG22	46:OL:397:TRP:HZ3	1.80	0.46
45:OK:313:MET:HE3	45:OK:382:THR:HG22	1.97	0.46
46:OL:35:THR:HG23	46:OL:37:HIS:CE1	2.50	0.46
46:OL:65:LEU:HD22	46:OL:90:PHE:CE1	2.50	0.46
46:OL:359:LYS:HA	46:OL:359:LYS:HD2	1.78	0.46
45:OM:276:ILE:HG22	45:OM:277:SER:O	2.16	0.46
47:OM:501:GTP:O1G	46:ON:252:LYS:NZ	2.30	0.46
46:ON:70:PRO:HA	46:ON:73:MET:HE2	1.96	0.46
45:PA:315:CYS:HB2	45:PA:377:MET:CE	2.44	0.46
45:PA:352:LYS:HD3	46:PD:179:VAL:HG13	1.96	0.46
45:PC:96:LYS:HE2	46:PD:2:ARG:HB3	1.97	0.46
45:PC:132:LEU:HD22	45:PC:164:LYS:NZ	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PC:181:VAL:HG23	45:PC:182:VAL:HG13	1.96	0.46
45:PE:35:GLN:N	45:PE:35:GLN:OE1	2.49	0.46
46:PF:237:THR:HG23	46:PF:241:ARG:NH2	2.29	0.46
45:PG:183:GLU:N	45:PG:184:PRO:HD2	2.30	0.46
45:PI:153:LEU:O	45:PI:157:LEU:HD23	2.15	0.46
45:PK:222:PRO:HG2	46:PL:324:LYS:HG2	1.97	0.46
46:PL:212:PHE:CE1	46:PL:220:PRO:HG2	2.50	0.46
46:QB:19:LYS:HD3	46:QB:227:HIS:CG	2.50	0.46
46:QB:83:GLN:CD	46:QB:83:GLN:H	2.23	0.46
45:QE:91:GLN:HG3	45:QE:92:LEU:HD12	1.97	0.46
46:QF:151:LEU:O	46:QF:155:VAL:HG12	2.14	0.46
46:QH:317:PHE:HB2	46:QH:353:ILE:HD13	1.96	0.46
45:QI:4:VAL:HG12	45:QI:133:GLN:HB2	1.96	0.46
46:QL:73:MET:HE1	46:QL:91:VAL:O	2.15	0.46
46:QL:209:ASP:O	46:QL:213:ARG:HG2	2.15	0.46
46:QL:379:LYS:O	46:QL:383:GLU:OE1	2.33	0.46
46:QN:262:ARG:NH1	46:QN:421:GLU:OE1	2.46	0.46
46:RB:122:LYS:HE2	46:SB:291:GLN:CD	2.41	0.46
45:RC:390:ARG:O	45:RC:394:LYS:HG2	2.15	0.46
46:RF:2:ARG:HH12	45:RG:71:GLU:HB2	1.80	0.46
46:RF:86:ARG:NH1	46:RF:88:ASP:OD1	2.48	0.46
45:RG:19:ALA:O	45:RG:22:GLU:HG2	2.15	0.46
45:RG:280:LYS:NZ	45:RG:284:GLU:OE1	2.49	0.46
45:RG:318:MET:HB2	45:RG:376:CYS:SG	2.55	0.46
46:RJ:156:ARG:HH22	46:RJ:197:ASP:CG	2.22	0.46
45:RK:171:ILE:O	45:RK:171:ILE:HG13	2.15	0.46
46:RL:262:ARG:NH1	46:RL:418:LEU:HA	2.31	0.46
46:SH:20:PHE:CE2	46:SH:233:MET:HE1	2.50	0.46
46:SH:318:ARG:HD3	46:SH:358:PRO:HD3	1.97	0.46
45:SI:333:ALA:O	45:SI:337:THR:HG23	2.15	0.46
45:SK:85:GLN:H	45:SK:85:GLN:CD	2.20	0.46
46:SL:178:THR:HB	46:SL:181:GLU:HG3	1.97	0.46
45:TC:417:GLU:OE1	45:TC:417:GLU:N	2.41	0.46
46:TD:371:SER:O	46:TD:422:TYR:OH	2.22	0.46
46:TF:108:GLU:HA	46:TF:111:GLU:OE2	2.15	0.46
46:TF:226:ASN:HA	46:TF:229:VAL:HG22	1.97	0.46
45:TG:34:GLY:O	45:TG:60:LYS:HA	2.15	0.46
46:TH:329:GLN:O	46:TH:333:VAL:HG22	2.14	0.46
45:TI:229:ARG:CZ	45:TI:366:GLY:HA2	2.45	0.46
45:TK:195:LEU:HD21	45:TK:428:LEU:HD21	1.97	0.46
46:TL:86:ARG:HH11	46:UL:281:TYR:HB3	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TM:24:PHE:HA	45:TM:27:GLU:HG2	1.97	0.46
45:TM:174:SER:OG	45:TM:207:GLU:HB2	2.16	0.46
45:UA:346:TRP:CD1	46:UB:391:ARG:HG3	2.50	0.46
46:UB:86:ARG:HH22	46:UB:122:LYS:NZ	2.14	0.46
46:UB:286:VAL:HG12	46:UB:329:GLN:HG3	1.96	0.46
46:UB:318:ARG:HD3	46:UB:358:PRO:HG3	1.97	0.46
45:UC:107:HIS:ND1	45:UC:107:HIS:O	2.48	0.46
45:UC:205:ASP:OD1	45:UC:303:ALA:HA	2.16	0.46
46:UD:313:ALA:HB1	46:UD:367:PHE:HE1	1.80	0.46
45:UE:129:CYS:SG	45:UE:132:LEU:HB3	2.55	0.46
45:UE:150:GLY:O	45:UE:154:LEU:HD23	2.15	0.46
45:UK:14:ILE:HD11	45:UK:69:ASP:HB2	1.97	0.46
45:UK:98:ASP:OD1	45:UK:99:ALA:N	2.48	0.46
45:UK:387:VAL:HG12	45:UK:390:ARG:NH1	2.30	0.46
45:VA:145:THR:OG1	47:VA:501:GTP:O1B	2.32	0.46
45:VA:311:LYS:HD3	45:VA:342:GLN:HG3	1.97	0.46
46:VB:316:LEU:HD13	46:VB:352:SER:HB2	1.97	0.46
46:VF:306:ARG:HG2	46:VF:340:TYR:CE1	2.50	0.46
45:VG:115:VAL:HG11	45:VG:152:LEU:HD23	1.97	0.46
46:VH:286:VAL:CG2	46:VH:287:PRO:HD3	2.44	0.46
46:VH:306:ARG:HB2	46:VH:340:TYR:CE1	2.50	0.46
46:VH:317:PHE:CE2	46:VH:326:VAL:HG13	2.50	0.46
45:VK:8:HIS:HB2	45:VK:67:PHE:HD2	1.79	0.46
45:WA:203:MET:HE2	45:WA:203:MET:HA	1.97	0.46
45:WC:136:LEU:HD22	45:WC:169:PHE:HE2	1.80	0.46
46:WD:12:CYS:O	46:WD:16:ILE:HG12	2.15	0.46
46:WD:289:LEU:HD11	46:WD:363:MET:HB3	1.97	0.46
46:WF:174:LYS:HZ1	46:WF:380:ARG:NH1	2.13	0.46
45:WG:265:ILE:HD11	45:WG:435:VAL:HG21	1.96	0.46
46:WH:167:PHE:CE1	46:WH:233:MET:HE1	2.50	0.46
46:WL:58:ARG:HD2	46:WL:59:TYR:N	2.30	0.46
45:DC:36:MET:HG3	45:DC:38:SER:H	1.80	0.46
1:0A:121:ALA:HB2	46:AB:224:ASP:OD1	2.15	0.46
1:0A:135:SER:H	1:0A:138:TRP:CD1	2.30	0.46
4:0D:87:GLU:OE1	4:0D:166:ARG:NH2	2.42	0.46
4:0D:118:ASP:H	4:0D:121:LYS:NZ	2.14	0.46
7:0G:46:LYS:HE3	45:JK:77:GLU:OE2	2.15	0.46
8:0H:437:ARG:NH1	17:1F:43:GLU:HG3	2.31	0.46
9:0N:224:GLN:HG3	9:0N:231:GLN:NE2	2.30	0.46
13:0U:14:THR:OG1	13:0U:33:PRO:O	2.24	0.46
13:0U:23:LEU:HD21	13:0U:27:ASN:HD22	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:1E:92:LEU:HD23	5:1E:169:SER:HA	1.97	0.46
8:1H:421:THR:OG1	8:1H:424:ASP:OD2	2.26	0.46
18:1I:152:LYS:NZ	45:KE:364:PRO:HG2	2.30	0.46
21:1L:269:ASN:OD1	21:1L:270:ASP:N	2.48	0.46
21:1L:710:GLU:OE1	21:1L:710:GLU:N	2.48	0.46
9:1N:29:LYS:HB3	29:2G:59:TYR:CE2	2.49	0.46
23:1O:143:MET:O	23:1O:146:MET:HE3	2.16	0.46
10:1Q:60:THR:HG22	10:1Q:62:PRO:HD2	1.96	0.46
25:1R:418:ARG:HG3	45:EC:40:LYS:CE	2.44	0.46
11:1S:16:SER:HA	11:1S:19:GLU:HB3	1.97	0.46
13:1U:129:MET:HE1	13:1U:152:ILE:HD12	1.96	0.46
13:1U:384:GLY:HA2	13:1U:407:GLY:HA2	1.97	0.46
13:1U:475:ILE:C	13:1U:483:ARG:HH22	2.24	0.46
26:1W:57:ILE:HG22	46:LH:23:VAL:HG22	1.98	0.46
1:2A:104:ARG:HH21	34:5R:59:MET:HA	1.79	0.46
27:2C:103:ARG:NH2	27:2C:184:ASP:OD1	2.37	0.46
27:2C:172:SER:O	27:2C:175:GLU:HG3	2.15	0.46
21:2L:279:VAL:HG22	21:2L:284:ILE:HD11	1.96	0.46
21:2L:900:HIS:HA	46:CJ:320:ARG:NH2	2.31	0.46
22:2M:44:VAL:HG13	46:IJ:78:ALA:HB2	1.97	0.46
22:2M:262:PHE:HD1	22:2M:310:GLN:HB2	1.80	0.46
23:2O:373:ARG:CZ	45:VC:282:TYR:HB2	2.46	0.46
23:2O:402:GLN:HG3	46:VD:276:ARG:HH22	1.79	0.46
10:2Q:53:ASN:ND2	45:AE:396:ASP:HB2	2.31	0.46
25:2R:390:ASP:OD1	46:EH:218:THR:OG1	2.32	0.46
12:2T:9:TRP:O	12:2T:13:GLN:NE2	2.49	0.46
12:2T:108:PRO:HB2	12:2T:205:TYR:CZ	2.51	0.46
12:2T:252:ARG:NH2	12:2T:255:SER:OG	2.39	0.46
13:2U:414:THR:HG23	13:2U:417:CYS:N	2.29	0.46
13:2U:506:LEU:HD21	13:2U:539:LEU:HD22	1.97	0.46
15:2X:91:LYS:O	15:2X:95:ILE:HG12	2.16	0.46
1:3A:138:TRP:HZ3	45:AM:81:GLY:HA2	1.80	0.46
5:3E:150:PHE:HZ	5:3E:164:TRP:HA	1.80	0.46
21:3L:144:LYS:NZ	21:3L:215:VAL:O	2.45	0.46
23:3O:467:LYS:O	23:3O:470:LYS:HG3	2.15	0.46
23:3O:470:LYS:HA	23:3O:473:GLN:NE2	2.30	0.46
10:3Q:89:PHE:HB2	10:3Q:156:ILE:HD13	1.98	0.46
11:3S:135:ARG:HH22	11:3S:182:LEU:HD23	1.80	0.46
13:3U:539:LEU:HG	13:3U:550:SER:HB2	1.96	0.46
13:3U:578:ILE:HA	13:3U:594:GLY:HA2	1.98	0.46
34:4R:215:LEU:HA	34:4R:218:ILE:HD12	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5F:181:TYR:O	37:5F:184:GLN:HG3	2.15	0.46
34:5R:509:ASP:HB3	34:5R:512:THR:HG23	1.96	0.46
35:5S:167:LYS:HA	35:5S:170:THR:HG22	1.98	0.46
40:6G:268:VAL:HG13	45:VA:338:LYS:HE2	1.96	0.46
10:6Q:9:GLY:HA2	10:6Q:170:ARG:HH12	1.80	0.46
34:7R:389:ASN:N	46:EB:276:ARG:HH12	2.12	0.46
34:7R:474:MET:HE1	34:7R:476:HIS:HB3	1.97	0.46
45:AA:102:ASN:ND2	45:AA:407:TRP:O	2.45	0.46
45:AC:68:LEU:HD13	45:AC:93:ILE:HB	1.97	0.46
45:AC:215:ARG:NH2	45:AC:300:ASN:OD1	2.48	0.46
46:AD:117:LEU:HA	46:AD:120:VAL:HG12	1.97	0.46
45:AE:402:ARG:NH2	45:AE:415:GLU:OE1	2.48	0.46
46:AF:111:GLU:OE1	46:AF:111:GLU:N	2.49	0.46
45:AG:156:ARG:HH11	45:AG:156:ARG:HA	1.80	0.46
45:AG:231:ILE:O	45:AG:235:ILE:HG12	2.15	0.46
46:AH:173:PRO:HD3	46:AH:380:ARG:HH21	1.80	0.46
45:AI:387:VAL:HG12	45:AI:390:ARG:NH1	2.30	0.46
46:AL:287:PRO:HG3	46:AL:329:GLN:NE2	2.30	0.46
45:AM:68:LEU:HD23	45:AM:93:ILE:HB	1.96	0.46
45:BA:88:HIS:HD1	45:BA:121:ARG:HH22	1.63	0.46
46:BD:201:VAL:HG23	46:BD:301:CYS:SG	2.55	0.46
46:BF:86:ARG:HG3	46:BF:88:ASP:OD1	2.15	0.46
45:BI:103:PHE:H	45:BI:408:TYR:HE2	1.62	0.46
45:BI:222:PRO:O	46:BJ:324:LYS:HG2	2.15	0.46
46:BJ:52:ASN:OD1	46:BJ:62:ARG:NH2	2.49	0.46
45:BK:51:THR:HG22	45:BK:52:PHE:CD2	2.51	0.46
45:BK:88:HIS:HD2	45:CK:283:HIS:HB3	1.80	0.46
45:BK:167:LEU:HG	45:BK:200:VAL:HB	1.97	0.46
46:BL:109:GLY:HA2	46:BL:147:MET:HE2	1.96	0.46
46:BL:189:VAL:HG11	46:BL:415:MET:HE1	1.96	0.46
45:BM:328:VAL:HG11	45:BM:353:VAL:HG21	1.97	0.46
46:BN:68:LEU:HB3	46:BN:96:GLY:HA2	1.97	0.46
46:BN:260:PHE:HB2	46:BN:263:LEU:HD12	1.96	0.46
45:CA:335:ILE:HA	45:CA:338:LYS:HZ1	1.79	0.46
46:CD:148:GLY:O	46:CD:152:ILE:HG13	2.14	0.46
46:CF:68:LEU:HB3	46:CF:96:GLY:HA2	1.96	0.46
46:CL:359:LYS:HE2	46:CL:359:LYS:HA	1.97	0.46
46:DB:12:CYS:O	46:DB:16:ILE:HG12	2.15	0.46
46:DB:222:TYR:HA	46:DB:225:LEU:HD12	1.98	0.46
46:DD:312:THR:HG22	46:DD:370:ASN:HB3	1.97	0.46
45:DE:187:SER:O	45:DE:191:THR:HG23	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DF:290:THR:HG21	46:DF:329:GLN:CG	2.45	0.46
46:DH:238:CYS:SG	46:DH:239:CYS:N	2.88	0.46
45:DI:101:ASN:HA	45:DI:144:GLY:H	1.79	0.46
46:DJ:66:MET:HE1	46:DJ:147:MET:HG2	1.96	0.46
45:DK:76:ASP:HA	45:DK:79:ARG:HG2	1.97	0.46
46:DL:134:GLN:O	46:DL:135:ILE:HD13	2.16	0.46
46:DL:375:GLN:HG2	46:DL:379:LYS:HZ3	1.80	0.46
45:EC:205:ASP:OD1	45:EC:206:ASN:N	2.48	0.46
45:EI:287:SER:O	45:EI:291:ILE:HG12	2.15	0.46
45:EK:346:TRP:CD1	46:EL:391:ARG:HG3	2.51	0.46
46:EL:19:LYS:HD2	46:EL:22:GLU:OE2	2.15	0.46
46:EL:54:ALA:HA	46:FL:283:ALA:HB2	1.96	0.46
46:EL:263:LEU:HD22	46:EL:422:TYR:HD1	1.80	0.46
45:FA:192:HIS:ND1	45:FA:421:ALA:HA	2.30	0.46
46:FD:290:THR:HA	46:FD:293:MET:CG	2.44	0.46
45:FK:118:CYS:O	45:FK:122:ILE:HG12	2.14	0.46
45:FM:188:ILE:HD11	45:FM:391:LEU:HB3	1.97	0.46
46:GB:318:ARG:HB3	46:GB:357:PRO:HA	1.97	0.46
45:GI:171:ILE:HG23	45:GI:204:LEU:O	2.16	0.46
46:GJ:184:ASN:OD1	46:GJ:185:ALA:N	2.48	0.46
46:GJ:318:ARG:HH11	46:GJ:358:PRO:HG3	1.79	0.46
46:HD:163:ILE:O	46:HD:164:MET:HE2	2.15	0.46
46:HD:180:VAL:O	46:HD:180:VAL:HG12	2.15	0.46
46:HH:11:GLN:O	46:HH:15:GLN:HG2	2.14	0.46
46:HH:198:GLU:OE2	46:HH:200:MET:HG3	2.15	0.46
46:HH:284:LEU:HD11	46:HH:362:LYS:HB2	1.97	0.46
45:HI:69:ASP:CG	45:HI:71:GLU:H	2.23	0.46
45:HI:287:SER:N	45:HI:290:GLU:OE2	2.36	0.46
46:HJ:163:ILE:HA	46:HJ:197:ASP:OD2	2.15	0.46
46:HJ:274:THR:HB	46:HJ:282:ARG:HH11	1.80	0.46
45:HK:150:GLY:O	45:HK:154:LEU:HD23	2.14	0.46
45:HM:139:ASN:ND2	45:HM:146:GLY:O	2.45	0.46
46:HN:152:ILE:O	46:HN:156:ARG:HG2	2.16	0.46
45:IC:245:ASP:N	45:IC:245:ASP:OD1	2.47	0.46
46:IJ:207:LEU:HB3	46:IJ:225:LEU:HD22	1.96	0.46
46:JB:31:ASP:OD2	46:JB:37:HIS:ND1	2.49	0.46
46:JB:214:THR:O	46:JB:275:SER:HB3	2.15	0.46
45:JC:89:PRO:HG2	45:KC:280:LYS:HZ3	1.80	0.46
46:JD:66:MET:CG	46:JD:147:MET:HE3	2.45	0.46
46:JD:178:THR:HB	46:JD:181:GLU:OE2	2.14	0.46
45:JG:88:HIS:CE1	45:JG:90:GLU:HG2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JI:174:SER:HB2	45:JI:177:VAL:O	2.15	0.46
45:JK:73:THR:HA	46:JL:46:ARG:HH22	1.79	0.46
46:JL:148:GLY:O	46:JL:152:ILE:HG13	2.14	0.46
45:JM:27:GLU:OE2	45:JM:28:HIS:ND1	2.48	0.46
45:JM:214:ARG:NH2	45:JM:215:ARG:HG2	2.31	0.46
46:JN:183:TYR:CE2	46:JN:388:MET:HE2	2.51	0.46
45:KA:298:PRO:HB3	45:KA:307:PRO:HD2	1.97	0.46
46:KD:175:VAL:O	46:KD:175:VAL:HG13	2.15	0.46
45:KI:206:ASN:OD1	47:KI:501:GTP:N2	2.48	0.46
45:KK:294:SER:HA	45:KK:297:GLU:HG2	1.98	0.46
46:KL:3:GLU:OE2	46:KL:127:CYS:HB2	2.15	0.46
46:KL:233:MET:O	46:KL:236:VAL:HG12	2.15	0.46
45:KM:69:ASP:OD1	45:KM:70:LEU:N	2.49	0.46
46:LB:48:ASN:O	46:LB:62:ARG:NH1	2.38	0.46
46:LB:97:ALA:HB2	46:LB:143:THR:HB	1.98	0.46
46:LB:103:LYS:HA	46:LB:107:THR:HG22	1.97	0.46
45:LE:5:ILE:HB	45:LE:135:PHE:CD1	2.50	0.46
46:LH:155:VAL:HG13	46:LH:164:MET:HE1	1.96	0.46
45:LI:98:ASP:OD1	45:LI:99:ALA:N	2.48	0.46
46:LJ:324:LYS:HG3	46:LJ:325:GLU:N	2.30	0.46
46:LN:66:MET:HE1	46:LN:147:MET:SD	2.56	0.46
46:MB:299:MET:HG3	46:MB:301:CYS:N	2.22	0.46
45:MC:262:TYR:OH	46:MF:391:ARG:O	2.31	0.46
46:MD:6:HIS:NE2	46:MD:8:GLN:OE1	2.49	0.46
45:NA:141:VAL:HG22	45:NA:187:SER:HA	1.97	0.46
45:NA:326:LYS:HE2	46:ND:208:TYR:HD2	1.80	0.46
45:NC:363:VAL:HG13	45:NC:366:GLY:HA3	1.96	0.46
45:NE:217:LEU:HB2	45:NE:219:ILE:HG22	1.98	0.46
46:NF:190:HIS:CD2	46:NF:414:ASN:HD22	2.34	0.46
46:NH:87:PRO:HD2	46:OH:281:TYR:HD2	1.80	0.46
46:OB:257:LEU:HD21	46:OB:314:SER:HB2	1.97	0.46
45:OG:156:ARG:HD3	45:OG:156:ARG:HA	1.73	0.46
45:OG:171:ILE:HG23	45:OG:204:LEU:O	2.16	0.46
45:OI:141:VAL:HG22	45:OI:187:SER:HA	1.96	0.46
45:PA:348:PRO:HD3	46:PD:388:MET:HE1	1.97	0.46
45:PC:22:GLU:OE2	45:PC:83:TYR:HE2	1.97	0.46
45:PC:325:PRO:HG3	45:PC:355:ILE:HD13	1.97	0.46
45:PE:98:ASP:O	45:PE:105:ARG:NH1	2.49	0.46
45:PE:222:PRO:O	46:PF:324:LYS:HD3	2.16	0.46
45:PE:259:LEU:HD21	45:PE:316:SER:HB2	1.96	0.46
46:PF:68:LEU:HD23	46:PF:143:THR:OG1	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PF:285:THR:HG23	46:PF:287:PRO:HD2	1.97	0.46
45:PG:119:LEU:HD11	45:PG:157:LEU:HD22	1.97	0.46
46:PH:113:ILE:HD11	46:PH:151:LEU:HB2	1.97	0.46
45:PI:261:PRO:HA	46:PL:394:PHE:CD1	2.50	0.46
45:PK:11:GLN:O	45:PK:15:GLN:HG2	2.15	0.46
45:PK:387:VAL:O	45:PK:390:ARG:HG2	2.15	0.46
46:PL:222:TYR:O	46:PL:226:ASN:ND2	2.25	0.46
46:PN:333:VAL:HA	46:PN:336:LYS:HG2	1.97	0.46
45:QA:320:ARG:HH12	45:QA:360:PRO:HA	1.80	0.46
45:QA:348:PRO:HD2	46:QB:388:MET:HE2	1.97	0.46
46:QB:86:ARG:HG3	46:QB:88:ASP:H	1.79	0.46
46:QD:44:LEU:O	46:QD:47:ILE:HG12	2.15	0.46
46:QF:8:GLN:OE1	46:QF:17:GLY:HA3	2.15	0.46
46:QF:86:ARG:HG2	46:QF:88:ASP:OD2	2.14	0.46
45:QG:15:GLN:NE2	45:QG:228:ASN:OD1	2.43	0.46
45:QG:17:GLY:O	45:QG:21:TRP:HD1	1.98	0.46
45:QG:167:LEU:HD13	45:QG:200:VAL:HB	1.96	0.46
45:QI:231:ILE:O	45:QI:235:ILE:HG12	2.16	0.46
45:QK:70:LEU:HA	45:QK:95:GLY:H	1.80	0.46
45:QK:88:HIS:HB3	45:QK:91:GLN:HG3	1.96	0.46
45:QM:78:VAL:HG12	45:QM:87:PHE:CE2	2.50	0.46
45:RE:326:LYS:HD2	46:RF:220:PRO:HG2	1.97	0.46
45:RG:239:THR:HG23	45:RG:243:ARG:HH21	1.80	0.46
45:RI:20:CYS:HA	45:RI:232:ALA:HB1	1.96	0.46
46:RL:164:MET:H	46:RL:197:ASP:HB2	1.79	0.46
45:SC:430:LYS:O	45:SC:433:GLU:HG3	2.15	0.46
46:SD:167:PHE:CE2	46:SD:233:MET:HG2	2.50	0.46
46:SH:302:ALA:HB3	46:SH:377:MET:HE1	1.98	0.46
45:SI:176:GLN:NE2	45:SI:207:GLU:OE2	2.44	0.46
45:SK:138:PHE:HZ	45:SK:235:ILE:HD12	1.79	0.46
46:TB:238:CYS:SG	46:TB:239:CYS:N	2.88	0.46
45:TE:205:ASP:OD1	45:TE:303:ALA:HA	2.15	0.46
45:TG:390:ARG:HG3	45:TG:391:LEU:HD12	1.96	0.46
46:TH:318:ARG:HH11	46:TH:358:PRO:HG3	1.79	0.46
45:TK:287:SER:O	45:TK:291:ILE:HG12	2.16	0.46
46:TL:68:LEU:HD21	46:TL:108:GLU:OE2	2.14	0.46
46:TL:210:ILE:O	46:TL:214:THR:OG1	2.28	0.46
46:TL:414:ASN:O	46:TL:418:LEU:HD23	2.16	0.46
46:TN:290:THR:HA	46:TN:293:MET:HB2	1.96	0.46
45:UC:10:GLY:O	45:UC:14:ILE:HD12	2.15	0.46
45:UE:183:GLU:N	45:UE:184:PRO:HD2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UI:186:ASN:OD1	45:UI:187:SER:N	2.48	0.46
46:UL:156:ARG:HD2	46:UL:164:MET:HE1	1.98	0.46
45:UM:265:ILE:HG12	45:UM:380:ASN:HD21	1.81	0.46
45:UM:325:PRO:HG3	45:UM:355:ILE:HD13	1.97	0.46
46:UN:68:LEU:HD22	46:UN:108:GLU:OE2	2.15	0.46
45:VA:10:GLY:O	45:VA:14:ILE:HG12	2.15	0.46
46:VB:164:MET:O	46:VB:197:ASP:HB3	2.15	0.46
46:VB:282:ARG:HH22	46:VB:289:LEU:HD22	1.81	0.46
46:VD:48:ASN:O	46:VD:62:ARG:NH1	2.45	0.46
45:VE:183:GLU:N	45:VE:184:PRO:HD2	2.30	0.46
46:VF:6:HIS:O	46:VF:63:ALA:HA	2.14	0.46
45:VG:393:HIS:O	45:VG:397:LEU:HD23	2.15	0.46
46:VJ:303:ALA:HB2	46:VJ:377:MET:HE3	1.98	0.46
45:VK:221:ARG:NH2	46:VL:321:MET:HA	2.30	0.46
46:VL:83:GLN:OE1	46:VL:83:GLN:HA	2.15	0.46
46:VL:198:GLU:HB2	46:VL:266:PHE:CE2	2.50	0.46
45:WC:80:THR:HA	45:WC:84:ARG:HH21	1.79	0.46
45:WC:181:VAL:HG22	46:WD:256:ASN:OD1	2.15	0.46
45:WE:264:ARG:CZ	45:WE:264:ARG:HA	2.44	0.46
45:WG:11:GLN:O	45:WG:15:GLN:HG2	2.15	0.46
45:WG:319:TYR:CE2	45:WG:328:VAL:HG22	2.50	0.46
46:WH:396:HIS:CD2	46:WH:397:TRP:HD1	2.34	0.46
46:WJ:318:ARG:NH1	46:WJ:358:PRO:HG3	2.29	0.46
45:WM:223:THR:HG23	45:WM:225:THR:H	1.80	0.46
4:0D:169:THR:O	45:EC:84:ARG:NH2	2.48	0.46
6:0F:20:LEU:HD22	45:EE:362:VAL:HG13	1.97	0.46
13:0U:458:LYS:HE3	13:0U:463:GLN:CB	2.39	0.46
1:1A:93:PHE:HB3	1:1A:95:LEU:HD23	1.97	0.46
16:1B:359:VAL:HA	16:1B:362:GLU:HG3	1.98	0.46
16:1B:423:VAL:HG11	16:1B:466:VAL:O	2.15	0.46
4:1D:220:ILE:HB	4:1D:221:PRO:HD3	1.96	0.46
8:1H:151:GLN:NE2	33:4F:17:LYS:HE2	2.31	0.46
18:1I:121:ILE:HD11	20:1K:64:ARG:HG3	1.96	0.46
19:1J:142:VAL:HB	45:IE:285:GLN:HB2	1.96	0.46
19:1J:237:ARG:HH22	29:2G:96:LYS:HG3	1.78	0.46
19:1J:273:TRP:HE1	46:IL:276:ARG:HE	1.63	0.46
20:1K:44:GLU:OE1	46:JF:94:GLN:NE2	2.47	0.46
21:1L:512:LEU:O	21:1L:516:LEU:HD23	2.15	0.46
23:1O:183:ILE:O	23:1O:187:LYS:HG2	2.15	0.46
24:1P:205:GLN:OE1	24:1P:208:LYS:HE3	2.15	0.46
24:1P:302:LYS:NZ	46:TD:362:LYS:HE2	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:1R:458:ILE:HG12	46:FD:276:ARG:NH1	2.29	0.46
12:1T:10:ILE:HD11	12:1T:170:ALA:HB1	1.98	0.46
13:1U:68:LYS:HG3	13:1U:69:TYR:CD1	2.51	0.46
13:1U:547:HIS:HD2	13:1U:561:GLY:HA2	1.79	0.46
16:2B:201:TYR:CZ	16:2B:204:PRO:HD3	2.51	0.46
27:2C:23:VAL:HG22	27:2C:180:GLY:HA2	1.98	0.46
27:2C:222:ILE:O	45:KI:221:ARG:NH2	2.48	0.46
4:2D:129:GLN:NE2	25:3R:511:ALA:HA	2.29	0.46
5:2E:162:LYS:HA	5:2E:165:ILE:HG12	1.97	0.46
28:2F:49:ASP:N	28:2F:49:ASP:OD1	2.48	0.46
20:2K:333:ASN:OD1	20:2K:334:GLU:N	2.49	0.46
9:2N:258:THR:OG1	9:2N:260:GLU:OE2	2.24	0.46
23:2O:434:ASN:O	23:2O:437:LYS:HG3	2.15	0.46
25:2R:312:GLN:HE22	46:CH:360:GLY:C	2.23	0.46
25:2R:504:GLU:O	25:2R:508:LYS:HG2	2.16	0.46
11:2S:104:THR:O	11:2S:104:THR:OG1	2.31	0.46
11:2S:162:PRO:HG2	11:2S:199:LYS:HD2	1.97	0.46
12:2T:187:ILE:HG22	12:2T:189:PHE:HD2	1.80	0.46
13:2U:318:CYS:SG	13:2U:319:HIS:N	2.88	0.46
13:2U:516:TYR:O	13:2U:523:GLN:HA	2.16	0.46
13:2U:571:GLY:HA3	13:2U:602:TRP:CZ3	2.50	0.46
26:2W:215:HIS:HA	26:2W:218:GLU:CD	2.40	0.46
26:2W:225:ARG:HH12	27:4C:14:ARG:CB	2.25	0.46
26:2W:270:GLU:OE2	45:LK:278:ALA:N	2.42	0.46
16:3B:59:PHE:CD2	45:LG:32:PRO:HB2	2.50	0.46
16:3B:63:GLN:HB2	45:LG:80:THR:HG23	1.98	0.46
5:3E:45:ARG:NH1	5:3E:77:GLY:O	2.49	0.46
31:3I:269:GLU:N	31:3I:269:GLU:OE1	2.49	0.46
12:3T:93:LEU:CD2	12:3T:97:ARG:HE	2.28	0.46
12:3T:228:PRO:HG2	12:3T:231:GLU:OE1	2.15	0.46
13:3U:492:LEU:O	13:3U:510:SER:N	2.48	0.46
14:3V:21:ARG:NH1	14:3V:22:ARG:HB3	2.30	0.46
14:3V:209:ARG:O	14:3V:213:LYS:HG2	2.15	0.46
15:3X:42:LYS:NZ	45:LM:57:GLY:O	2.41	0.46
34:4R:453:ILE:HG12	34:4R:490:PHE:HZ	1.81	0.46
36:5A:68:ASP:HA	37:5E:69:LYS:HD3	1.97	0.46
36:5C:97:LYS:HB3	36:5C:108:ARG:HE	1.80	0.46
37:5E:48:ARG:HD2	37:5E:48:ARG:HA	1.76	0.46
37:5G:60:TRP:HA	46:OJ:279:GLN:OE1	2.15	0.46
37:5G:63:HIS:CD2	46:NJ:58:ARG:HD2	2.50	0.46
37:5G:116:TYR:CE1	45:NI:85:GLN:HA	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5H:61:LYS:HZ3	46:ON:276:ARG:HH21	1.62	0.46
10:5Q:48:GLU:HG2	10:5Q:161:ARG:HG2	1.96	0.46
10:5Q:48:GLU:CD	10:5Q:50:MET:HE2	2.40	0.46
39:6F:62:GLN:HG2	45:IE:84:ARG:NH2	2.31	0.46
40:6G:83:GLU:HG3	40:6G:84:VAL:H	1.80	0.46
40:6G:98:ARG:HD3	45:UK:113:GLU:OE1	2.16	0.46
40:6G:281:THR:H	40:6G:284:LYS:NZ	2.13	0.46
41:6H:251:ASP:HB3	46:FF:362:LYS:HE2	1.96	0.46
34:7R:69:LYS:HD3	34:7R:70:ARG:O	2.15	0.46
34:7R:406:PRO:HG3	46:EB:216:LYS:HE3	1.98	0.46
45:AE:1:MET:HE2	46:AH:70:PRO:HG2	1.96	0.46
45:AE:98:ASP:O	45:AE:105:ARG:NH1	2.48	0.46
45:AG:263:PRO:HD3	46:AJ:396:HIS:CE1	2.51	0.46
45:AI:172:TYR:HE1	45:AI:203:MET:HE1	1.80	0.46
45:AI:183:GLU:N	45:AI:184:PRO:HD2	2.30	0.46
45:AK:135:PHE:HB2	45:AK:166:LYS:HG2	1.96	0.46
45:AK:183:GLU:N	45:AK:184:PRO:HD2	2.30	0.46
45:AM:288:VAL:HA	45:AM:291:ILE:HG12	1.98	0.46
45:AM:398:MET:CE	46:AN:346:PRO:HD2	2.46	0.46
45:BA:265:ILE:HG12	45:BA:432:TYR:HE1	1.80	0.46
45:BA:276:ILE:HD12	45:BA:281:ALA:HA	1.96	0.46
46:BB:20:PHE:CZ	46:BB:24:ILE:HD11	2.50	0.46
46:BB:143:THR:OG1	46:BB:147:MET:HE2	2.15	0.46
45:BC:319:TYR:CD2	45:BC:328:VAL:HG22	2.50	0.46
46:BD:87:PRO:HD2	46:CB:281:TYR:CD1	2.49	0.46
45:BE:260:VAL:HB	46:BH:397:TRP:CZ2	2.48	0.46
46:BF:64:ILE:HD11	46:BF:123:GLU:HG3	1.96	0.46
46:BF:178:THR:HG22	46:BF:180:VAL:H	1.79	0.46
45:BG:223:THR:HG22	46:BH:322:SER:HB2	1.97	0.46
45:BG:298:PRO:HG3	45:BG:308:ARG:NH1	2.31	0.46
46:BH:317:PHE:CD2	46:BH:365:VAL:HG22	2.51	0.46
46:BH:332:ASN:HA	46:BH:336:LYS:NZ	2.30	0.46
45:BK:209:ILE:HD12	45:BK:302:MET:HE1	1.98	0.46
46:BL:3:GLU:OE2	46:BL:127:CYS:HB2	2.15	0.46
46:BL:65:LEU:HD22	46:BL:90:PHE:CE1	2.50	0.46
46:BL:293:MET:HE2	46:BL:367:PHE:HD1	1.81	0.46
45:BM:206:ASN:HB3	45:BM:210:TYR:HE2	1.81	0.46
46:BN:67:ASP:CG	46:BN:73:MET:HE3	2.41	0.46
45:CC:10:GLY:O	45:CC:14:ILE:HD12	2.14	0.46
45:CC:174:SER:HB2	45:CC:177:VAL:O	2.16	0.46
46:CF:222:TYR:HD1	49:CF:501:GDP:C6	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CG:258:ASN:ND2	45:CG:352:LYS:HE3	2.31	0.46
46:CJ:164:MET:SD	46:CJ:196:ALA:HA	2.55	0.46
46:CN:198:GLU:HG2	46:CN:266:PHE:HE2	1.80	0.46
46:DB:200:MET:HE1	46:DB:266:PHE:CD2	2.50	0.46
46:DD:407:GLU:HA	46:DD:410:GLU:HG3	1.98	0.46
45:DI:187:SER:O	45:DI:191:THR:HG23	2.15	0.46
45:EC:81:GLY:O	45:EC:84:ARG:HG3	2.14	0.46
45:EC:171:ILE:HG22	45:EC:204:LEU:HB2	1.96	0.46
46:ED:183:TYR:CE1	46:ED:388:MET:HB3	2.51	0.46
46:ED:362:LYS:HD3	46:ED:362:LYS:N	2.30	0.46
46:EF:12:CYS:HA	46:EF:15:GLN:HE21	1.79	0.46
45:EG:325:PRO:HB2	46:EH:208:TYR:OH	2.14	0.46
45:EK:276:ILE:HD11	45:EK:280:LYS:HG3	1.96	0.46
45:EM:188:ILE:HD12	45:EM:425:LEU:HD11	1.98	0.46
46:EN:296:ALA:HB1	46:EN:305:PRO:HD2	1.98	0.46
46:FB:10:GLY:O	46:FB:14:ASN:ND2	2.48	0.46
45:FC:210:TYR:CE1	45:FC:227:LEU:HD11	2.51	0.46
46:FD:289:LEU:O	46:FD:293:MET:HG2	2.16	0.46
45:FG:411:GLU:OE1	45:FG:411:GLU:N	2.48	0.46
46:FH:133:PHE:HB2	46:FH:164:MET:SD	2.54	0.46
46:FL:314:SER:OG	46:FL:368:VAL:HB	2.15	0.46
45:FM:293:ASN:O	45:FM:297:GLU:HG3	2.16	0.46
45:GC:221:ARG:HH22	46:GD:325:GLU:CD	2.23	0.46
46:GF:4:ILE:HG13	46:GF:132:GLY:O	2.14	0.46
45:GG:20:CYS:O	45:GG:24:PHE:HD1	1.99	0.46
45:GG:326:LYS:NZ	46:GJ:208:TYR:O	2.44	0.46
46:GH:116:VAL:HA	46:GH:119:VAL:HG12	1.98	0.46
46:GN:114:ASP:O	46:GN:117:LEU:HG	2.15	0.46
46:HB:262:ARG:NH1	46:HB:421:GLU:OE1	2.48	0.46
45:HC:221:ARG:NH2	46:HD:322:SER:H	2.13	0.46
46:HD:39:ASP:N	46:HD:39:ASP:OD2	2.48	0.46
45:HE:239:THR:HG23	45:HE:243:ARG:NH1	2.30	0.46
46:HF:301:CYS:SG	46:HF:377:MET:HE3	2.56	0.46
45:HI:222:PRO:HG2	46:HJ:324:LYS:CE	2.44	0.46
46:HJ:36:TYR:CD2	46:HJ:44:LEU:HD21	2.50	0.46
45:HM:221:ARG:NH2	46:HN:321:MET:HA	2.30	0.46
45:IA:140:SER:OG	47:IA:501:GTP:O2A	2.31	0.46
45:IA:261:PRO:CD	45:IA:262:TYR:N	2.76	0.46
45:IC:119:LEU:O	45:IC:123:ARG:HG2	2.16	0.46
45:II:288:VAL:HA	45:II:291:ILE:HG12	1.96	0.46
45:IK:276:ILE:CG1	45:IK:281:ALA:HB2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JF:193:VAL:HG11	46:JF:418:LEU:HD12	1.97	0.46
45:JI:426:ALA:O	45:JI:429:GLU:HG3	2.15	0.46
45:JK:211:ASP:O	45:JK:214:ARG:HG3	2.14	0.46
45:JK:272:TYR:CD2	45:JK:275:ILE:HD11	2.48	0.46
45:JK:330:ALA:O	45:JK:334:THR:HG23	2.15	0.46
46:KD:238:CYS:SG	46:KD:318:ARG:HD3	2.55	0.46
46:KF:332:ASN:C	46:KF:336:LYS:HZ2	2.22	0.46
46:LD:187:LEU:HD11	46:LD:408:PHE:HE1	1.81	0.46
46:LH:201:VAL:HG23	46:LH:301:CYS:SG	2.55	0.46
45:LI:72:PRO:HD2	46:LJ:2:ARG:HH21	1.80	0.46
46:LJ:8:GLN:HE21	46:LJ:14:ASN:HA	1.80	0.46
46:LJ:238:CYS:HB2	46:LJ:318:ARG:HH21	1.80	0.46
45:LK:276:ILE:HD11	45:LK:280:LYS:HD2	1.96	0.46
45:LM:56:THR:OG1	45:MM:283:HIS:O	2.32	0.46
45:LM:119:LEU:HD11	45:LM:156:ARG:HG2	1.97	0.46
45:MC:141:VAL:HG11	45:MC:172:TYR:CD1	2.50	0.46
46:MD:213:ARG:HH22	46:MD:297:LYS:HG3	1.80	0.46
46:ML:139:LEU:HD13	46:ML:168:SER:HB3	1.97	0.46
45:NA:280:LYS:NZ	45:NA:282:TYR:H	2.12	0.46
46:NB:316:LEU:HB2	46:NB:366:THR:CG2	2.45	0.46
45:NC:35:GLN:NE2	45:NC:60:LYS:HB3	2.29	0.46
45:NE:101:ASN:OD1	45:NE:143:GLY:HA2	2.16	0.46
45:NE:181:VAL:HG13	45:NE:182:VAL:HG13	1.95	0.46
45:NG:88:HIS:HB3	45:NG:91:GLN:HG2	1.97	0.46
45:NK:2:ARG:HG2	45:NK:133:GLN:HE22	1.81	0.46
46:NN:20:PHE:HB2	46:NN:233:MET:HE3	1.98	0.46
45:OA:88:HIS:CE1	45:OA:90:GLU:HG3	2.50	0.46
46:OD:304:ASP:HB3	46:OD:307:HIS:ND1	2.30	0.46
45:OE:414:GLU:CD	45:OE:416:GLY:H	2.24	0.46
46:OF:86:ARG:NE	46:PF:281:TYR:HB3	2.30	0.46
45:OI:121:ARG:O	45:OI:125:LEU:HD23	2.14	0.46
45:OK:70:LEU:HD13	45:OK:95:GLY:HA3	1.97	0.46
45:OM:179:THR:HG22	46:ON:350:LYS:HZ3	1.79	0.46
45:PA:256:GLN:HB2	45:PA:260:VAL:HB	1.97	0.46
46:PJ:200:MET:HE1	46:PJ:266:PHE:HB2	1.98	0.46
46:PL:189:VAL:HA	46:PL:192:LEU:HB2	1.98	0.46
46:PL:284:LEU:HD12	46:PL:284:LEU:O	2.16	0.46
46:PN:190:HIS:CD2	46:PN:414:ASN:HD22	2.33	0.46
45:QE:12:GLY:HA2	45:QE:15:GLN:HE21	1.81	0.46
45:QK:205:ASP:OD1	45:QK:303:ALA:HA	2.15	0.46
46:QL:58:ARG:HH12	46:QL:60:VAL:HB	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QN:145:SER:HB2	46:QN:188:SER:HB3	1.97	0.46
45:RA:140:SER:OG	47:RA:501:GTP:O2B	2.33	0.46
45:RC:287:SER:O	45:RC:290:GLU:HG3	2.15	0.46
45:RM:346:TRP:CD1	46:RN:391:ARG:HG3	2.51	0.46
45:SC:83:TYR:HD2	45:SC:86:LEU:HD12	1.81	0.46
46:SF:69:GLU:OE2	46:SF:72:THR:HG23	2.15	0.46
46:SH:8:GLN:HE22	46:SH:17:GLY:HA3	1.79	0.46
46:SH:131:GLN:O	46:SH:163:ILE:HG12	2.15	0.46
46:SH:317:PHE:CD1	46:SH:365:VAL:HG22	2.50	0.46
45:SM:287:SER:HB3	45:SM:290:GLU:HG2	1.97	0.46
45:SM:404:PHE:CD2	45:SM:407:TRP:HZ3	2.34	0.46
46:TB:325:GLU:OE2	45:TC:221:ARG:NH1	2.47	0.46
46:TD:318:ARG:HH11	46:TD:358:PRO:HG3	1.79	0.46
46:TD:372:THR:HA	46:TD:422:TYR:CE2	2.51	0.46
45:TG:265:ILE:O	45:TG:265:ILE:HG13	2.15	0.46
46:TH:317:PHE:HB2	46:TH:353:ILE:HD13	1.96	0.46
46:TJ:392:LYS:HD3	46:TJ:392:LYS:N	2.30	0.46
45:TK:414:GLU:HB3	45:TK:417:GLU:OE1	2.15	0.46
45:TM:82:THR:HG23	45:TM:83:TYR:HD1	1.81	0.46
45:TM:362:VAL:HB	45:TM:370:LYS:HB3	1.96	0.46
46:UB:139:LEU:HG	46:UB:188:SER:OG	2.15	0.46
46:UD:63:ALA:O	46:UD:89:ASN:ND2	2.48	0.46
46:UD:380:ARG:O	46:UD:383:GLU:HG3	2.14	0.46
46:UF:257:LEU:HD11	46:UF:314:SER:HB2	1.98	0.46
46:UF:371:SER:O	46:UF:422:TYR:OH	2.28	0.46
46:UF:403:MET:HE1	46:UF:407:GLU:HB3	1.98	0.46
45:UG:124:LYS:HD3	45:UG:124:LYS:HA	1.73	0.46
46:UH:132:GLY:HA2	46:UH:162:ARG:HG3	1.97	0.46
46:UH:175:VAL:HG22	46:UH:205:GLU:HB3	1.97	0.46
46:UJ:101:TRP:HB3	46:UJ:398:TYR:HE1	1.79	0.46
46:UJ:252:LYS:HA	45:UK:100:ALA:HB1	1.97	0.46
45:UK:416:GLY:O	45:UK:419:SER:OG	2.24	0.46
45:VA:185:TYR:HE1	45:VA:398:MET:HG3	1.80	0.46
45:VC:268:MET:N	45:VC:268:MET:SD	2.88	0.46
45:VE:231:ILE:O	45:VE:235:ILE:HG12	2.15	0.46
45:VE:387:VAL:HG12	45:VE:390:ARG:NH1	2.31	0.46
45:VG:23:LEU:HD12	45:VG:26:LEU:HD11	1.96	0.46
45:VK:258:ASN:CB	45:VK:352:LYS:HE3	2.45	0.46
46:VN:249:ASP:OD1	46:VN:252:LYS:N	2.38	0.46
45:WA:332:ILE:O	45:WA:336:LYS:HG3	2.16	0.46
45:WA:430:LYS:O	45:WA:433:GLU:HG3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WC:242:LEU:HD11	45:WC:252:ILE:HG12	1.97	0.46
45:WC:326:LYS:HZ2	46:WF:219:THR:CA	2.28	0.46
46:WD:294:PHE:CE2	46:WD:333:VAL:HG11	2.50	0.46
45:WE:296:PHE:HE2	45:WE:335:ILE:HG13	1.80	0.46
45:WE:317:MET:O	45:WE:318:MET:HE2	2.15	0.46
45:WE:434:GLU:O	45:WE:437:ILE:HG12	2.16	0.46
46:WF:21:TRP:HA	46:WF:24:ILE:HG22	1.98	0.46
46:WF:167:PHE:CZ	46:WF:200:MET:HG3	2.50	0.46
45:WG:407:TRP:CE3	46:WH:255:VAL:HG12	2.50	0.46
46:WH:420:SER:O	46:WH:424:GLN:HG2	2.14	0.46
45:WK:253:THR:HG23	45:WK:254:GLU:HG3	1.97	0.46
45:WM:119:LEU:HB3	45:WM:123:ARG:NH1	2.30	0.46
1:1A:46:LYS:HE2	1:1A:46:LYS:HA	1.96	0.46
1:1A:52:THR:HG21	34:4R:71:LYS:HB2	1.96	0.46
16:1B:72:TYR:HH	16:1B:76:ARG:N	2.12	0.46
4:1D:85:VAL:HG21	46:EF:243:PRO:HB2	1.98	0.46
5:1E:85:LEU:HA	5:1E:88:ILE:HG22	1.97	0.46
5:1E:178:ASP:O	5:1E:182:GLU:OE1	2.33	0.46
7:1G:170:LYS:O	7:1G:176:HIS:NE2	2.48	0.46
18:1I:198:ASP:HA	18:1I:201:LEU:HD23	1.97	0.46
21:1L:114:LEU:HB3	21:1L:117:GLU:CD	2.40	0.46
23:1O:70:LYS:C	23:1O:70:LYS:HD2	2.40	0.46
23:1O:260:LEU:O	23:1O:264:ILE:HG13	2.15	0.46
12:1T:126:LYS:NZ	45:AC:338:LYS:O	2.36	0.46
16:2B:29:LEU:HB2	16:2B:56:LEU:HD21	1.98	0.46
20:2K:451:ILE:O	20:2K:455:GLU:HG2	2.16	0.46
21:2L:428:GLN:C	21:2L:430:LEU:H	2.22	0.46
22:2M:122:LYS:HD3	22:2M:268:GLN:HG3	1.97	0.46
22:2M:151:MET:HA	22:2M:151:MET:HE2	1.97	0.46
9:2N:150:LEU:HB3	9:2N:173:ILE:HG13	1.96	0.46
10:2Q:73:LEU:HD22	10:2Q:169:ASP:OD1	2.15	0.46
11:2S:127:ARG:HD3	11:2S:127:ARG:HA	1.77	0.46
13:2U:162:ILE:CG1	13:2U:173:LEU:HB2	2.45	0.46
13:2U:209:TYR:CE1	13:2U:219:GLU:HG3	2.51	0.46
13:2U:558:LYS:HD2	13:2U:560:TRP:CZ2	2.51	0.46
14:2V:195:ARG:HA	14:2V:195:ARG:NH1	2.30	0.46
16:3B:130:HIS:HE2	16:3B:188:ILE:HD11	1.80	0.46
5:3E:25:ARG:HB3	5:3E:167:TYR:HE1	1.80	0.46
5:3E:129:HIS:ND1	5:3E:131:LYS:HG3	2.31	0.46
30:3H:195:ASP:OD2	46:AH:359:LYS:NZ	2.48	0.46
21:3L:60:VAL:HA	21:3L:97:LYS:H	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:3R:152:LEU:HA	46:AN:78:ALA:O	2.16	0.46
13:3U:307:THR:C	13:3U:309:LYS:H	2.24	0.46
35:4S:111:GLU:OE2	35:4S:113:GLU:HG3	2.16	0.46
15:4X:60:GLU:O	15:4X:63:GLU:HG3	2.15	0.46
15:4X:64:ARG:HD2	15:4X:68:ARG:HH21	1.80	0.46
36:5A:91:HIS:NE2	36:5A:94:MET:HB3	2.29	0.46
37:5F:209:ARG:NH2	45:LG:264:ARG:HD3	2.30	0.46
37:5G:213:TYR:CD2	46:LN:392:LYS:HG3	2.50	0.46
35:5S:74:LEU:HD13	35:5S:76:ILE:HD11	1.97	0.46
40:6G:287:VAL:HA	40:6G:290:GLN:HG2	1.98	0.46
10:6Q:70:GLY:HA2	10:6Q:150:GLU:OE2	2.15	0.46
34:6R:174:PHE:O	34:6R:175:GLU:HG2	2.15	0.46
46:AB:203:ASP:OD2	46:AB:205:GLU:HB2	2.15	0.46
45:AI:115:VAL:O	45:AI:119:LEU:HG	2.15	0.46
45:AI:387:VAL:HG23	45:AI:388:PHE:CD2	2.51	0.46
46:AJ:201:VAL:HG23	46:AJ:301:CYS:SG	2.55	0.46
46:AL:148:GLY:O	46:AL:152:ILE:HG12	2.16	0.46
45:AM:397:LEU:HD21	46:AN:344:TRP:HA	1.97	0.46
45:BA:183:GLU:N	45:BA:184:PRO:HD2	2.30	0.46
46:BD:262:ARG:NH1	46:BD:421:GLU:OE2	2.49	0.46
46:BF:190:HIS:CD2	46:BF:411:ALA:HA	2.50	0.46
46:BF:217:LEU:HD12	46:BF:220:PRO:HD3	1.96	0.46
45:BG:175:PRO:HG3	45:BG:390:ARG:NH1	2.31	0.46
45:BG:222:PRO:C	46:BH:324:LYS:HZ3	2.23	0.46
45:BI:205:ASP:CG	45:BI:304:LYS:H	2.23	0.46
45:BI:407:TRP:HH2	46:BJ:254:ALA:HB1	1.79	0.46
46:BJ:318:ARG:HB2	46:BJ:364:ALA:HB3	1.97	0.46
46:CB:156:ARG:HH21	46:CB:164:MET:HB2	1.80	0.46
46:CD:68:LEU:HD12	46:CD:97:ALA:HB2	1.98	0.46
46:CD:107:THR:OG1	46:CD:108:GLU:OE1	2.33	0.46
46:CD:150:LEU:O	46:CD:154:LYS:HG2	2.15	0.46
46:CF:175:VAL:HG22	46:CF:205:GLU:HB3	1.96	0.46
45:CG:242:LEU:HD21	45:CG:251:ASP:HA	1.97	0.46
45:CI:395:PHE:HZ	45:CI:418:PHE:HB3	1.81	0.46
46:CJ:375:GLN:OE1	46:CJ:423:GLN:HB3	2.15	0.46
46:DB:203:ASP:O	46:DB:207:LEU:HG	2.16	0.46
46:DD:309:ARG:HD3	46:DD:342:VAL:HA	1.98	0.46
46:DF:259:PRO:HA	45:DG:404:PHE:CD2	2.50	0.46
45:DI:175:PRO:HG3	45:DI:390:ARG:NH2	2.30	0.46
45:DK:289:ALA:O	45:DK:292:THR:HG22	2.16	0.46
46:DL:3:GLU:HB2	46:DL:62:ARG:NH1	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DL:293:MET:HE3	46:DL:367:PHE:HB2	1.98	0.46
46:EB:46:ARG:HH11	46:EB:46:ARG:HA	1.80	0.46
45:EI:241:SER:OG	45:EI:250:VAL:O	2.23	0.46
45:EI:268:MET:HB2	45:EI:379:SER:O	2.16	0.46
45:FA:11:GLN:NE2	46:FB:247:ASN:OD1	2.49	0.46
45:FA:387:VAL:HG12	45:FA:390:ARG:CZ	2.45	0.46
45:FC:19:ALA:HA	45:FC:22:GLU:OE1	2.16	0.46
45:FC:111:GLY:O	45:FC:115:VAL:HG13	2.15	0.46
46:FD:21:TRP:CZ3	46:FD:63:ALA:HB2	2.50	0.46
45:FE:399:TYR:OH	45:FE:402:ARG:NH2	2.48	0.46
46:FH:173:PRO:HG2	46:FH:380:ARG:HE	1.79	0.46
45:GA:171:ILE:HG22	45:GA:204:LEU:HB2	1.98	0.46
45:GC:177:VAL:CG2	46:GD:331:LEU:HD11	2.46	0.46
46:GD:404:ASP:N	46:GD:407:GLU:OE2	2.26	0.46
46:GH:222:TYR:O	46:GH:226:ASN:ND2	2.35	0.46
45:GI:27:GLU:HG3	45:GI:361:THR:HG21	1.98	0.46
45:GK:215:ARG:HA	45:GK:215:ARG:CZ	2.45	0.46
46:HB:28:HIS:NE2	46:HB:241:ARG:HD2	2.30	0.46
46:HB:207:LEU:HD13	46:HB:225:LEU:HB3	1.96	0.46
46:HJ:238:CYS:SG	46:HJ:239:CYS:N	2.87	0.46
46:HJ:383:GLU:HA	46:HJ:383:GLU:OE1	2.16	0.46
46:HL:395:LEU:O	46:HL:399:THR:HG23	2.16	0.46
45:HM:123:ARG:NH1	45:HM:161:TYR:OH	2.45	0.46
45:IA:88:HIS:HA	46:JB:281:TYR:HD1	1.81	0.46
45:IA:352:LYS:HZ2	46:ID:179:VAL:HG12	1.80	0.46
46:IB:269:GLY:HA2	46:IB:300:MET:HE2	1.97	0.46
45:IC:328:VAL:HG11	45:IC:353:VAL:HG21	1.97	0.46
46:ID:48:ASN:ND2	46:ID:48:ASN:O	2.47	0.46
46:IH:230:SER:HA	46:IH:233:MET:HG3	1.96	0.46
45:IK:251:ASP:OD1	45:IK:252:ILE:N	2.48	0.46
45:IK:326:LYS:HZ3	46:IN:220:PRO:HD2	1.81	0.46
46:IL:105:HIS:CD2	46:IL:150:LEU:HB2	2.51	0.46
45:JA:239:THR:HG23	45:JA:243:ARG:HH21	1.80	0.46
45:JA:262:TYR:OH	46:JD:391:ARG:O	2.28	0.46
46:JB:309:ARG:NH2	46:JB:426:GLN:O	2.48	0.46
45:JC:192:HIS:NE2	45:JC:424:ASP:OD2	2.48	0.46
46:JJ:407:GLU:HA	46:JJ:410:GLU:OE1	2.15	0.46
46:JL:173:PRO:HB3	46:JL:384:GLN:HE22	1.81	0.46
46:JN:183:TYR:CZ	46:JN:388:MET:HE2	2.51	0.46
46:KB:107:THR:OG1	46:KB:108:GLU:OE1	2.29	0.46
46:LB:51:TYR:HB3	46:LB:59:TYR:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LD:9:GLY:HA2	46:LD:66:MET:O	2.16	0.46
45:LG:288:VAL:HA	45:LG:291:ILE:HG12	1.98	0.46
46:LJ:233:MET:O	46:LJ:236:VAL:HG12	2.16	0.46
46:LL:233:MET:O	46:LL:236:VAL:HG12	2.15	0.46
46:MB:99:ASN:HA	46:MB:142:GLY:H	1.80	0.46
46:MB:132:GLY:HA3	46:MB:163:ILE:HG22	1.96	0.46
45:MC:319:TYR:HB3	45:MC:323:VAL:HG11	1.97	0.46
45:ME:102:ASN:ND2	45:ME:105:ARG:HG3	2.31	0.46
45:MG:311:LYS:N	45:MG:382:THR:OG1	2.49	0.46
45:MI:46:ASP:HB3	45:MI:47:ASP:H	1.58	0.46
45:MI:262:TYR:OH	46:ML:391:ARG:O	2.33	0.46
46:MJ:99:ASN:ND2	49:MJ:501:GDP:O2A	2.44	0.46
45:NA:120:ASP:O	45:NA:123:ARG:HG2	2.15	0.46
46:NB:25:SER:OG	46:NB:30:ILE:O	2.32	0.46
46:NB:204:ASN:OD1	46:NB:205:GLU:N	2.48	0.46
46:ND:152:ILE:HA	46:ND:155:VAL:HG22	1.98	0.46
46:ND:190:HIS:CD2	46:ND:414:ASN:HD22	2.34	0.46
46:ND:318:ARG:HD2	46:ND:354:CYS:HB3	1.97	0.46
45:NE:276:ILE:HG21	45:NE:283:HIS:CE1	2.51	0.46
45:NI:331:SER:O	45:NI:335:ILE:HG12	2.16	0.46
46:NJ:116:VAL:HA	46:NJ:119:VAL:HG12	1.98	0.46
46:NL:22:GLU:HA	46:NL:81:PHE:CD1	2.50	0.46
46:OH:118:ASP:O	46:OH:121:ARG:HG2	2.16	0.46
46:OJ:207:LEU:HB3	46:OJ:225:LEU:HD22	1.96	0.46
46:OL:11:GLN:O	46:OL:15:GLN:HG2	2.16	0.46
46:PD:293:MET:HE1	46:PD:294:PHE:CE1	2.50	0.46
45:PE:205:ASP:OD2	45:PE:303:ALA:HA	2.15	0.46
45:PE:222:PRO:O	46:PF:322:SER:HB2	2.15	0.46
45:PI:90:GLU:HG3	45:QI:280:LYS:NZ	2.30	0.46
45:PK:171:ILE:HG23	45:PK:204:LEU:O	2.16	0.46
46:PL:203:ASP:HB3	46:PL:205:GLU:CD	2.41	0.46
45:PM:226:ASN:OD1	45:PM:227:LEU:N	2.49	0.46
46:PN:190:HIS:O	46:PN:193:VAL:HG12	2.15	0.46
45:QA:184:PRO:O	45:QA:188:ILE:HG12	2.15	0.46
45:QA:237:SER:O	45:QA:318:MET:HE2	2.15	0.46
46:QB:105:HIS:CD2	46:QB:150:LEU:HD23	2.50	0.46
46:QB:154:LYS:HA	46:QB:157:GLU:OE1	2.16	0.46
45:QE:21:TRP:CZ2	45:QE:65:ALA:HB2	2.50	0.46
45:QG:304:LYS:HA	45:QG:304:LYS:HE2	1.96	0.46
45:QK:211:ASP:HA	45:QK:214:ARG:HG2	1.97	0.46
45:QK:277:SER:H	45:QK:280:LYS:HZ3	1.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QL:383:GLU:HA	46:QL:386:THR:HG22	1.98	0.46
45:QM:88:HIS:O	45:QM:91:GLN:HG2	2.16	0.46
46:RD:69:GLU:CD	46:RD:71:GLY:H	2.23	0.46
46:RD:207:LEU:HD13	46:RD:225:LEU:HB3	1.96	0.46
46:RF:258:ILE:HG13	46:RF:258:ILE:O	2.15	0.46
45:RG:320:ARG:HH22	45:RG:360:PRO:HA	1.80	0.46
45:RI:141:VAL:HG11	45:RI:172:TYR:HA	1.98	0.46
46:RJ:10:GLY:O	46:RJ:14:ASN:ND2	2.48	0.46
45:RK:49:PHE:HB2	45:RK:53:PHE:CD1	2.51	0.46
46:RL:346:PRO:HD3	45:RM:397:LEU:HD22	1.98	0.46
45:RM:1:MET:HE2	46:RN:70:PRO:HG2	1.97	0.46
46:RN:86:ARG:NE	46:RN:87:PRO:HD2	2.30	0.46
46:RN:167:PHE:CZ	46:RN:233:MET:HG3	2.50	0.46
46:SB:345:ILE:HG22	46:SB:348:ASN:HB3	1.98	0.46
46:SD:380:ARG:HA	46:SD:383:GLU:CD	2.40	0.46
46:SF:67:ASP:OD1	46:SF:68:LEU:N	2.48	0.46
46:SF:294:PHE:CE2	46:SF:330:MET:HE1	2.50	0.46
46:SF:407:GLU:HA	46:SF:410:GLU:HG2	1.98	0.46
46:SH:267:MET:HE1	46:SH:303:ALA:HB3	1.97	0.46
46:SH:399:THR:HA	46:SH:403:MET:O	2.16	0.46
45:SI:205:ASP:OD1	45:SI:303:ALA:HA	2.14	0.46
46:SL:33:THR:HG23	46:SL:35:THR:HG23	1.97	0.46
46:SL:46:ARG:NH2	45:SM:73:THR:HA	2.31	0.46
46:SL:324:LYS:NZ	45:SM:210:TYR:HB3	2.30	0.46
45:TA:288:VAL:HA	45:TA:291:ILE:HG12	1.98	0.46
46:TB:239:CYS:HB3	46:TB:354:CYS:HB2	1.98	0.46
46:TB:261:PRO:HD3	45:TC:406:HIS:NE2	2.29	0.46
46:TD:347:ASN:O	45:TE:181:VAL:HG12	2.16	0.46
45:TE:417:GLU:OE1	45:TE:417:GLU:N	2.48	0.46
46:TF:269:GLY:HA2	46:TF:300:MET:HG2	1.97	0.46
46:TH:51:TYR:C	46:TH:62:ARG:HH21	2.23	0.46
45:TI:19:ALA:HA	45:TI:22:GLU:OE1	2.15	0.46
45:TI:401:LYS:HB2	45:TI:401:LYS:HE3	1.78	0.46
46:TL:341:PHE:HB3	46:TL:348:ASN:HD21	1.79	0.46
45:TM:187:SER:O	45:TM:191:THR:HG23	2.15	0.46
45:UC:280:LYS:HZ3	45:UC:283:HIS:CB	2.22	0.46
45:UE:60:LYS:NZ	45:UE:86:LEU:HA	2.30	0.46
46:UH:415:MET:HE2	46:UH:415:MET:HA	1.98	0.46
46:UJ:86:ARG:HH21	46:UJ:87:PRO:CG	2.27	0.46
45:UK:194:LEU:HB2	45:UK:198:THR:OG1	2.15	0.46
45:UM:83:TYR:H	45:UM:84:ARG:HH11	1.62	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UM:340:THR:HG23	45:UM:341:ILE:HG13	1.98	0.46
46:UN:67:ASP:O	46:UN:92:PHE:HA	2.15	0.46
46:VF:254:ALA:O	46:VF:258:ILE:HG12	2.16	0.46
45:VG:288:VAL:HA	45:VG:291:ILE:HG22	1.97	0.46
45:VI:401:LYS:HZ3	46:VJ:344:TRP:CG	2.34	0.46
45:VK:179:THR:HG21	46:VL:246:LEU:HD22	1.97	0.46
46:VL:19:LYS:NZ	46:VL:223:GLY:O	2.47	0.46
45:WI:331:SER:O	45:WI:335:ILE:HG12	2.15	0.46
46:WL:310:TYR:CD1	46:WL:371:SER:HB2	2.50	0.46
45:CE:212:ILE:HD11	45:CE:300:ASN:HA	1.97	0.46
3:0C:102:ARG:HD2	3:0C:103:GLN:N	2.30	0.46
6:0F:115:LEU:HG	6:0F:119:LYS:HZ3	1.79	0.46
9:0N:163:ALA:HB3	9:0N:167:ARG:H	1.78	0.46
11:0S:129:ILE:HD11	11:0S:179:ARG:HB3	1.97	0.46
14:0V:127:GLN:O	14:0V:128:GLN:HB2	2.16	0.46
16:1B:346:PHE:HE1	22:1M:213:PHE:HB2	1.79	0.46
8:1H:108:GLU:HG2	46:GL:56:GLY:H	1.80	0.46
8:1H:187:LEU:HG	45:GG:58:ALA:CB	2.45	0.46
8:1H:321:ARG:O	8:1H:324:GLN:HG3	2.15	0.46
19:1J:79:LYS:O	19:1J:81:ILE:HG12	2.16	0.46
19:1J:140:PHE:HE1	45:IE:282:TYR:CZ	2.33	0.46
19:1J:228:ILE:HA	29:2G:94:ILE:HD11	1.97	0.46
20:1K:172:ILE:HB	20:1K:176:LYS:NZ	2.31	0.46
21:1L:580:ARG:HG3	21:1L:580:ARG:HH11	1.80	0.46
21:1L:837:LYS:HB2	46:BD:39:ASP:OD2	2.15	0.46
25:1R:153:LYS:HZ3	46:AF:75:SER:HB2	1.79	0.46
25:1R:423:PHE:HD1	25:1R:497:PHE:HE2	1.62	0.46
11:1S:194:TYR:CE1	11:1S:233:ILE:HD13	2.51	0.46
13:1U:120:LEU:HD21	13:1U:149:VAL:HB	1.98	0.46
13:1U:128:MET:HB3	13:1U:130:ILE:HD11	1.97	0.46
26:1W:85:ILE:HD13	45:LE:282:TYR:CD1	2.50	0.46
26:1W:117:ARG:HD3	34:4R:15:HIS:CE1	2.50	0.46
26:1W:171:ASN:O	26:1W:175:THR:OG1	2.26	0.46
16:2B:22:LYS:HB2	16:2B:132:ARG:NH1	2.29	0.46
4:2D:210:MET:CE	4:2D:214:LYS:HE2	2.45	0.46
28:2F:13:GLU:HA	28:2F:16:LYS:NZ	2.30	0.46
20:2K:315:ARG:HH12	45:GI:372:MET:HB3	1.80	0.46
20:2K:425:THR:O	20:2K:428:GLN:HG3	2.14	0.46
21:2L:583:ASP:O	21:2L:587:GLN:HG2	2.14	0.46
21:2L:756:GLU:O	45:BK:221:ARG:NH2	2.42	0.46
9:2N:169:GLN:HB2	9:2N:237:CYS:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:2R:382:TYR:HA	46:EH:276:ARG:HH12	1.80	0.46
12:2T:114:LYS:HG3	12:2T:115:LYS:N	2.31	0.46
12:2T:121:ALA:H	12:2T:199:ARG:HG2	1.81	0.46
13:2U:535:GLU:H	13:2U:553:GLU:HG3	1.81	0.46
14:2V:241:LYS:HZ3	46:WH:218:THR:HG23	1.80	0.46
1:3A:87:LYS:C	1:3A:89:ALA:H	2.23	0.46
16:3B:208:ASN:HA	16:3B:211:GLU:HG2	1.98	0.46
16:3B:251:GLN:OE1	16:3B:251:GLN:HA	2.15	0.46
10:3Q:90:GLU:HG3	10:3Q:155:GLN:HB3	1.98	0.46
25:3R:101:ARG:H	25:3R:194:THR:HG21	1.80	0.46
25:3R:446:LEU:HD21	25:3R:469:TYR:CD2	2.51	0.46
13:3U:185:LEU:HD12	13:3U:186:ASP:H	1.80	0.46
13:3U:300:SER:HB3	13:3U:318:CYS:HB3	1.98	0.46
27:4C:181:ILE:HD12	27:4C:186:HIS:HE1	1.80	0.46
10:4Q:178:PRO:HD2	10:4Q:181:PHE:HD2	1.81	0.46
36:5A:31:SER:H	36:5A:36:ARG:NH2	2.13	0.46
36:5C:161:ILE:O	36:5C:165:LYS:HG2	2.16	0.46
37:5E:213:TYR:HA	37:5E:216:LYS:HD3	1.96	0.46
37:5F:144:LEU:O	37:5F:147:GLN:HG3	2.15	0.46
37:5G:67:ARG:NH1	37:5G:68:PRO:O	2.48	0.46
37:5H:40:TYR:HB3	37:5H:42:TYR:HE1	1.80	0.46
10:5Q:10:PHE:HE1	10:5Q:172:TYR:HD2	1.63	0.46
10:6Q:20:LYS:HZ1	10:6Q:22:LEU:HG	1.80	0.46
10:6Q:22:LEU:HD12	10:6Q:22:LEU:O	2.15	0.46
34:6R:231:TYR:HA	34:6R:234:VAL:HG22	1.97	0.46
44:8R:125:TYR:CD1	45:PI:279:GLU:HA	2.50	0.46
46:AB:382:ALA:HB2	46:AB:415:MET:HE1	1.97	0.46
46:AD:372:THR:HA	46:AD:422:TYR:HE1	1.79	0.46
46:AF:202:ILE:HD11	46:AF:268:ILE:HD11	1.97	0.46
45:BC:72:PRO:HG2	46:BD:1:MET:SD	2.56	0.46
45:BE:100:ALA:HA	46:BF:252:LYS:HE2	1.98	0.46
46:BF:22:GLU:HG2	46:BF:81:PHE:CD1	2.51	0.46
45:BG:199:ASP:OD2	45:BG:256:GLN:NE2	2.49	0.46
45:BG:352:LYS:HD2	45:BG:353:VAL:H	1.81	0.46
45:BK:181:VAL:HG13	45:BK:182:VAL:HG13	1.97	0.46
45:BK:317:MET:HB3	45:BK:319:TYR:CE1	2.50	0.46
45:BM:1:MET:O	45:BM:131:GLY:HA3	2.15	0.46
45:BM:240:ALA:HB1	45:BM:358:GLN:OE1	2.15	0.46
45:CC:47:ASP:OD1	45:CC:48:ALA:N	2.48	0.46
45:CC:116:ASP:O	45:CC:119:LEU:HG	2.16	0.46
46:CD:181:GLU:HB2	46:CD:182:PRO:HD3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CF:344:TRP:CE3	46:CF:345:ILE:HG23	2.51	0.46
45:CG:183:GLU:N	45:CG:184:PRO:HD2	2.31	0.46
45:CI:3:GLU:HG2	45:CI:132:LEU:HA	1.96	0.46
46:CL:2:ARG:HB2	46:CL:131:GLN:HB2	1.97	0.46
45:CM:140:SER:OG	47:CM:501:GTP:O2B	2.34	0.46
45:DG:24:PHE:HA	45:DG:27:GLU:CD	2.41	0.46
45:DG:90:GLU:OE1	45:EG:280:LYS:NZ	2.36	0.46
46:DH:11:GLN:HA	46:DH:14:ASN:HD22	1.81	0.46
45:DI:107:HIS:HA	45:DI:152:LEU:HD11	1.97	0.46
46:DJ:19:LYS:HE2	46:DJ:227:HIS:HB2	1.97	0.46
45:DK:252:ILE:HA	45:DK:255:PHE:HE2	1.81	0.46
46:DL:213:ARG:NH1	46:DL:297:LYS:HB3	2.30	0.46
46:DL:317:PHE:CD2	46:DL:365:VAL:HG22	2.51	0.46
45:DM:346:TRP:CD1	46:DN:391:ARG:HG3	2.50	0.46
46:ED:289:LEU:HD11	46:ED:363:MET:HB3	1.97	0.46
45:EG:288:VAL:HG11	45:EG:327:ASP:HB3	1.97	0.46
45:EM:195:LEU:HD21	45:EM:428:LEU:HD21	1.98	0.46
45:EM:326:LYS:NZ	46:EN:205:GLU:OE1	2.41	0.46
46:EN:182:PRO:HD2	46:EN:183:TYR:N	2.24	0.46
45:FA:203:MET:CE	45:FA:267:PHE:HB3	2.46	0.46
45:FC:209:ILE:HD11	45:FC:230:LEU:HD12	1.96	0.46
45:FG:68:LEU:HD13	45:FG:93:ILE:HB	1.98	0.46
45:FK:172:TYR:HE2	45:FK:203:MET:HE1	1.80	0.46
46:FL:178:THR:HG22	46:FL:180:VAL:H	1.80	0.46
45:FM:319:TYR:HE1	45:FM:353:VAL:HG23	1.81	0.46
45:GA:356:ASN:OD1	45:GA:357:TYR:N	2.46	0.46
45:GE:104:ALA:HB1	45:GE:411:GLU:OE1	2.15	0.46
45:GE:164:LYS:O	45:GE:166:LYS:NZ	2.49	0.46
46:GF:203:ASP:OD2	46:GF:205:GLU:HB2	2.16	0.46
45:GG:175:PRO:HG2	45:GG:304:LYS:HG2	1.97	0.46
45:GG:296:PHE:CE2	45:GG:335:ILE:HG21	2.51	0.46
45:HA:331:SER:O	45:HA:335:ILE:HG12	2.15	0.46
45:HC:220:GLU:CD	45:HC:221:ARG:HG2	2.40	0.46
45:HI:195:LEU:HD21	45:HI:264:ARG:HH21	1.79	0.46
45:IC:121:ARG:HA	45:IC:121:ARG:HE	1.81	0.46
45:IE:237:SER:HA	45:IE:320:ARG:NH2	2.31	0.46
45:IG:340:THR:HG23	45:IG:341:ILE:HG23	1.97	0.46
45:IG:399:TYR:O	45:IG:402:ARG:NH1	2.48	0.46
45:II:100:ALA:HA	46:IJ:252:LYS:HE3	1.98	0.46
46:IL:273:LEU:N	46:IL:292:GLN:OE1	2.42	0.46
45:IM:109:THR:N	45:IM:112:LYS:HZ1	2.13	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IM:152:LEU:O	45:IM:155:GLU:HG3	2.15	0.46
45:JA:384:ILE:O	45:JA:387:VAL:HG22	2.16	0.46
45:JC:141:VAL:HG23	45:JC:190:SER:HB3	1.98	0.46
45:JC:352:LYS:NZ	46:JF:178:THR:HG22	2.31	0.46
45:JG:346:TRP:CG	46:JJ:391:ARG:NH1	2.83	0.46
45:JK:191:THR:HA	45:JK:194:LEU:HG	1.97	0.46
45:JK:317:MET:HB3	45:JK:377:MET:SD	2.55	0.46
46:JN:73:MET:HE3	46:JN:92:PHE:HB3	1.97	0.46
45:KA:116:ASP:N	45:KA:116:ASP:OD1	2.46	0.46
45:KA:183:GLU:N	45:KA:184:PRO:HD2	2.30	0.46
46:KF:198:GLU:HB3	46:KF:266:PHE:HE2	1.80	0.46
45:KG:31:GLN:HG3	45:KG:33:ASP:OD1	2.16	0.46
45:KG:326:LYS:HA	45:KG:326:LYS:HD3	1.56	0.46
45:KK:7:ILE:HB	45:KK:137:VAL:HG12	1.97	0.46
46:KL:6:HIS:HE1	46:KL:8:GLN:HB3	1.80	0.46
46:KL:101:TRP:HB2	46:KL:184:ASN:HB3	1.97	0.46
45:KM:288:VAL:HA	45:KM:291:ILE:HG12	1.97	0.46
45:LA:210:TYR:CE1	45:LA:227:LEU:HD11	2.51	0.46
47:LA:501:GTP:H8	47:LA:501:GTP:O2A	1.99	0.46
46:LD:52:ASN:OD1	46:LD:62:ARG:NH2	2.49	0.46
46:LF:19:LYS:O	46:LF:22:GLU:HG3	2.14	0.46
46:LL:286:VAL:HG23	46:LL:287:PRO:HD3	1.97	0.46
45:MA:75:ILE:HA	45:MA:78:VAL:HG12	1.97	0.46
45:MA:102:ASN:OD1	45:MA:105:ARG:N	2.40	0.46
46:MB:391:ARG:HA	46:MB:391:ARG:HD2	1.76	0.46
45:ME:223:THR:HG22	45:ME:224:TYR:N	2.31	0.46
46:MH:139:LEU:HD12	46:MH:188:SER:OG	2.16	0.46
45:MI:46:ASP:O	45:MI:47:ASP:OD1	2.34	0.46
45:MI:93:ILE:HG22	45:MI:114:ILE:HD11	1.98	0.46
45:NA:71:GLU:OE2	45:NA:73:THR:OG1	2.28	0.46
45:NA:140:SER:HA	45:NA:171:ILE:HB	1.98	0.46
46:ND:154:LYS:NZ	46:ND:154:LYS:HB2	2.30	0.46
45:NE:11:GLN:HG3	45:NE:74:VAL:HG11	1.98	0.46
45:NI:116:ASP:OD1	45:NI:117:LEU:N	2.48	0.46
45:NK:188:ILE:HG12	45:NK:421:ALA:HB1	1.98	0.46
45:NK:195:LEU:HD21	45:NK:264:ARG:HE	1.80	0.46
45:NK:326:LYS:HD3	46:NN:220:PRO:HD2	1.96	0.46
45:OC:115:VAL:HG11	45:OC:152:LEU:HD23	1.97	0.46
45:OC:192:HIS:HD1	45:OC:421:ALA:HA	1.81	0.46
46:OF:332:ASN:O	46:OF:336:LYS:HG3	2.15	0.46
45:OG:31:GLN:NE2	45:OG:35:GLN:O	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OG:398:MET:SD	46:OH:345:ILE:HG22	2.56	0.46
46:OJ:52:ASN:OD1	46:OJ:62:ARG:NH2	2.49	0.46
45:OK:175:PRO:HG3	45:OK:390:ARG:NE	2.31	0.46
46:ON:24:ILE:HG23	46:ON:28:HIS:CE1	2.50	0.46
46:ON:145:SER:HB3	46:ON:188:SER:HB3	1.97	0.46
45:PA:80:THR:HA	45:PA:84:ARG:HH21	1.81	0.46
45:PA:100:ALA:HA	46:PB:252:LYS:HE2	1.98	0.46
45:PA:420:GLU:HA	45:PA:423:GLU:CD	2.40	0.46
45:PE:434:GLU:O	45:PE:437:ILE:HG12	2.15	0.46
45:PI:387:VAL:HA	45:PI:390:ARG:HE	1.80	0.46
46:PJ:47:ILE:HD12	46:PJ:59:TYR:CE1	2.50	0.46
45:PK:211:ASP:HA	45:PK:214:ARG:HG2	1.97	0.46
45:PM:171:ILE:HG13	45:PM:171:ILE:O	2.16	0.46
46:PN:344:TRP:CD1	46:PN:345:ILE:HG23	2.51	0.46
46:QB:67:ASP:OD1	46:QB:68:LEU:N	2.47	0.46
46:QD:65:LEU:HD22	46:QD:90:PHE:CE1	2.51	0.46
45:QE:261:PRO:HA	46:QF:394:PHE:HD1	1.80	0.46
45:QE:319:TYR:HB3	45:QE:323:VAL:HG11	1.96	0.46
46:QF:66:MET:HE2	46:QF:116:VAL:HG21	1.97	0.46
45:QG:251:ASP:OD1	45:QG:252:ILE:N	2.48	0.46
46:QJ:153:SER:HA	46:QJ:195:ASN:HD22	1.80	0.46
45:QK:184:PRO:O	45:QK:188:ILE:HG12	2.16	0.46
45:QK:302:MET:HE2	45:QK:302:MET:HB2	1.83	0.46
45:QM:401:LYS:HB2	45:QM:401:LYS:HE3	1.67	0.46
45:RA:188:ILE:HD11	45:RA:391:LEU:HB3	1.96	0.46
46:RB:100:ASN:HD22	46:RB:103:LYS:HB2	1.81	0.46
46:RB:330:MET:HE3	46:RB:330:MET:HA	1.98	0.46
45:RE:10:GLY:O	45:RE:14:ILE:HG12	2.16	0.46
45:RE:317:MET:O	45:RE:318:MET:HE2	2.15	0.46
45:RG:312:TYR:CE2	45:RG:341:ILE:HG23	2.51	0.46
45:RK:319:TYR:HB3	45:RK:323:VAL:HG21	1.97	0.46
45:SE:118:CYS:O	45:SE:122:ILE:HG12	2.16	0.46
46:SF:181:GLU:HG3	46:SF:182:PRO:HD3	1.96	0.46
45:SG:260:VAL:HG13	45:SG:265:ILE:O	2.16	0.46
45:SI:21:TRP:CZ3	45:SI:63:PRO:HB3	2.51	0.46
46:SJ:3:GLU:HG3	46:SJ:62:ARG:NH1	2.30	0.46
46:SJ:183:TYR:HA	46:SJ:385:PHE:CE1	2.50	0.46
46:SJ:415:MET:O	46:SJ:419:VAL:HG23	2.15	0.46
45:TA:98:ASP:OD1	45:TA:99:ALA:N	2.48	0.46
45:TC:19:ALA:HA	45:TC:22:GLU:OE1	2.14	0.46
45:TC:88:HIS:CD2	45:UC:280:LYS:HZ2	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TC:188:ILE:HD12	45:TC:425:LEU:HD11	1.98	0.46
45:TC:318:MET:HB3	45:TC:376:CYS:SG	2.55	0.46
45:TC:419:SER:O	45:TC:423:GLU:OE1	2.34	0.46
45:TE:420:GLU:HA	45:TE:423:GLU:OE1	2.14	0.46
45:TG:120:ASP:C	45:TG:124:LYS:HZ2	2.23	0.46
45:TI:141:VAL:HG12	45:TI:171:ILE:O	2.16	0.46
46:TJ:255:VAL:O	45:TK:407:TRP:HZ3	1.98	0.46
45:TK:209:ILE:HA	45:TK:212:ILE:HG22	1.96	0.46
46:TL:246:LEU:HA	45:TM:11:GLN:HE22	1.80	0.46
45:TM:254:GLU:OE1	45:TM:258:ASN:ND2	2.49	0.46
45:UC:1:MET:HE2	46:UD:70:PRO:HG2	1.98	0.46
45:UC:263:PRO:HD3	46:UD:396:HIS:CD2	2.50	0.46
46:UJ:275:SER:O	46:UJ:279:GLN:HG2	2.16	0.46
46:UJ:391:ARG:HA	46:UJ:391:ARG:HD2	1.75	0.46
45:UK:141:VAL:HG12	45:UK:171:ILE:O	2.16	0.46
46:UL:109:GLY:O	46:UL:113:ILE:HG23	2.15	0.46
46:UN:293:MET:HE1	46:UN:330:MET:HE1	1.98	0.46
45:VA:270:SER:O	45:VA:302:MET:HB2	2.16	0.46
45:VA:343:PHE:HZ	45:VA:351:PHE:HE1	1.63	0.46
46:VB:3:GLU:HB2	46:VB:62:ARG:HH22	1.80	0.46
45:VC:88:HIS:O	45:VC:91:GLN:HG2	2.15	0.46
46:VF:186:THR:HA	46:VF:189:VAL:HG12	1.96	0.46
45:WE:188:ILE:HG23	45:WE:425:LEU:HD11	1.96	0.46
45:WG:122:ILE:HD13	45:WG:125:LEU:HD21	1.98	0.46
45:WG:174:SER:HB2	45:WG:177:VAL:O	2.16	0.46
46:WL:6:HIS:O	46:WL:63:ALA:HA	2.15	0.46
46:WL:228:LEU:HD11	46:WL:273:LEU:HD21	1.96	0.46
45:CE:320:ARG:HB2	45:CE:358:GLN:O	2.15	0.46
45:DC:68:LEU:HD21	45:DC:118:CYS:SG	2.56	0.46
2:0B:194:GLU:HA	2:0B:197:ILE:HG12	1.96	0.46
3:0C:103:GLN:O	3:0C:106:ILE:N	2.49	0.46
4:0D:95:GLN:OE1	4:0D:99:ARG:NH2	2.48	0.46
6:0F:50:LYS:HG2	6:0F:54:ARG:HB3	1.97	0.46
8:0H:413:PHE:HB3	8:1H:84:VAL:HG21	1.97	0.46
10:0Q:73:LEU:HD22	10:0Q:169:ASP:OD1	2.15	0.46
14:0V:22:ARG:HG3	14:0V:23:TYR:HD1	1.80	0.46
4:1D:85:VAL:HG22	4:1D:86:ALA:N	2.26	0.46
18:1I:124:GLU:HA	18:1I:127:GLU:OE1	2.15	0.46
21:1L:300:VAL:HG12	21:1L:340:ARG:HA	1.97	0.46
9:1N:344:PRO:HB2	9:1N:347:GLN:HB2	1.98	0.46
23:1O:65:ALA:HA	14:2V:215:LYS:NZ	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:1P:310:LYS:HA	24:1P:313:GLU:OE1	2.16	0.46
25:1R:70:THR:HG22	46:MD:320:ARG:HE	1.80	0.46
25:1R:234:ASP:O	25:1R:238:HIS:ND1	2.44	0.46
25:1R:433:ARG:O	25:1R:434:ARG:NH1	2.43	0.46
13:1U:332:TYR:CZ	13:1U:334:ASP:HB2	2.51	0.46
16:2B:46:LYS:HA	16:2B:80:ILE:HD11	1.98	0.46
27:2C:75:LEU:O	27:2C:79:ASP:HB2	2.16	0.46
4:2D:205:ILE:O	4:2D:208:GLU:HG3	2.15	0.46
31:2I:32:PHE:CE1	45:GG:177:VAL:HG21	2.51	0.46
20:2K:346:ILE:HD13	46:GJ:362:LYS:HB2	1.98	0.46
21:2L:632:LYS:NZ	21:2L:705:ASP:HB3	2.30	0.46
24:2P:391:ARG:HA	24:2P:394:GLN:CD	2.41	0.46
25:2R:270:PHE:HB2	25:2R:283:ARG:HB3	1.96	0.46
25:2R:305:PRO:HB3	25:2R:321:PHE:HE1	1.81	0.46
25:2R:510:PHE:CD1	25:2R:514:ILE:HG13	2.51	0.46
12:2T:27:ARG:NH2	12:2T:157:CYS:O	2.49	0.46
13:2U:106:GLN:HG3	13:2U:122:GLY:HA2	1.97	0.46
13:2U:364:GLU:HB2	13:2U:382:ASN:HD21	1.79	0.46
13:2U:588:ARG:CZ	13:2U:588:ARG:HA	2.45	0.46
1:3A:91:ASN:ND2	1:3A:95:LEU:O	2.49	0.46
27:3C:123:HIS:CD2	27:3C:125:PHE:H	2.34	0.46
5:3E:99:ILE:HB	5:3E:182:GLU:OE2	2.16	0.46
31:3I:243:LYS:HA	31:3I:243:LYS:HD3	1.80	0.46
10:3Q:102:ARG:NH2	10:3Q:117:PHE:HB3	2.30	0.46
25:3R:458:ILE:HG12	46:FL:276:ARG:HH12	1.79	0.46
11:3S:161:GLN:OE1	11:3S:163:ASP:HB3	2.16	0.46
14:3V:69:SER:OG	46:MB:336:LYS:O	2.33	0.46
14:3V:133:TYR:CD2	46:LD:424:GLN:HG3	2.50	0.46
37:5E:123:ARG:HH12	45:OA:371:VAL:C	2.24	0.46
37:5F:28:SER:OG	37:5F:29:LYS:N	2.48	0.46
37:5G:123:ARG:HB3	45:OI:372:MET:HE3	1.96	0.46
37:5H:149:ARG:HA	37:5H:152:GLN:HG2	1.97	0.46
10:5Q:1:MET:H2	10:5Q:3:LYS:HG2	1.81	0.46
40:6G:276:PRO:O	45:VA:215:ARG:NH1	2.48	0.46
45:AA:174:SER:HB2	45:AA:177:VAL:O	2.15	0.46
45:AC:237:SER:HA	45:AC:320:ARG:HH11	1.80	0.46
45:AK:285:GLN:OE1	45:MK:56:THR:HA	2.14	0.46
46:AL:105:HIS:CE1	46:AL:150:LEU:HD12	2.50	0.46
46:AL:303:ALA:N	46:AL:377:MET:HE3	2.30	0.46
45:AM:212:ILE:HD11	45:AM:300:ASN:HA	1.97	0.46
45:BE:296:PHE:CE2	45:BE:377:MET:HE1	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BH:336:LYS:HD3	46:BH:336:LYS:N	2.30	0.46
46:BJ:147:MET:HE3	46:BJ:147:MET:HB3	1.84	0.46
45:BM:340:THR:HG23	45:BM:341:ILE:HG23	1.96	0.46
46:BN:73:MET:SD	46:BN:90:PHE:HD1	2.38	0.46
46:BN:77:ARG:NH1	46:BN:82:GLY:O	2.49	0.46
46:BN:262:ARG:NE	46:BN:421:GLU:OE2	2.32	0.46
45:CA:19:ALA:HA	45:CA:22:GLU:OE1	2.16	0.46
46:CB:154:LYS:HA	46:CB:154:LYS:HD3	1.78	0.46
45:CC:153:LEU:O	45:CC:157:LEU:HD23	2.16	0.46
46:CD:161:ASP:OD2	46:CD:162:ARG:NH1	2.42	0.46
46:CD:222:TYR:O	46:CD:226:ASN:ND2	2.26	0.46
45:CG:88:HIS:HB3	45:CG:91:GLN:HB2	1.98	0.46
45:CI:188:ILE:HD12	45:CI:425:LEU:HD11	1.95	0.46
46:CL:293:MET:SD	46:CL:365:VAL:HG11	2.56	0.46
45:CM:183:GLU:N	45:CM:184:PRO:HD2	2.31	0.46
46:DB:200:MET:HE1	46:DB:266:PHE:HD2	1.81	0.46
45:DE:417:GLU:OE1	45:DE:417:GLU:N	2.41	0.46
45:DM:269:LEU:HD23	45:DM:379:SER:O	2.15	0.46
46:EF:58:ARG:NH1	46:FF:280:GLN:HE22	2.14	0.46
46:EF:69:GLU:CD	46:EF:71:GLY:H	2.23	0.46
45:EG:349:THR:HG21	46:EH:181:GLU:OE2	2.16	0.46
46:EL:380:ARG:HA	46:EL:383:GLU:CD	2.40	0.46
45:EM:132:LEU:HD23	45:EM:164:LYS:HE2	1.98	0.46
45:EM:371:VAL:HG22	45:EM:373:ARG:H	1.80	0.46
45:FA:98:ASP:OD1	45:FA:99:ALA:N	2.48	0.46
45:FA:326:LYS:HG3	46:FD:220:PRO:HG2	1.98	0.46
46:FD:138:SER:HA	46:FD:169:VAL:HB	1.98	0.46
46:FJ:318:ARG:HD3	46:FJ:358:PRO:HD3	1.98	0.46
45:FK:81:GLY:O	45:FK:84:ARG:HG3	2.15	0.46
46:GJ:86:ARG:HD3	46:HJ:281:TYR:CE2	2.50	0.46
45:GK:68:LEU:HD13	45:GK:93:ILE:HB	1.97	0.46
46:GL:150:LEU:O	46:GL:154:LYS:HG2	2.16	0.46
46:HB:237:THR:O	46:HB:241:ARG:NH1	2.49	0.46
46:HF:132:GLY:HA3	46:HF:163:ILE:CG1	2.42	0.46
46:HF:221:THR:O	46:HF:225:LEU:HD12	2.16	0.46
45:HG:98:ASP:OD1	45:HG:99:ALA:N	2.48	0.46
45:HG:222:PRO:HG2	46:HH:324:LYS:HD2	1.96	0.46
46:HH:156:ARG:NH1	46:HH:197:ASP:OD1	2.46	0.46
45:HI:220:GLU:CD	45:HI:220:GLU:H	2.24	0.46
45:HI:328:VAL:O	45:HI:332:ILE:HG12	2.15	0.46
46:HJ:16:ILE:HD12	46:HJ:229:VAL:HG11	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HK:210:TYR:HE1	46:HL:324:LYS:HB2	1.80	0.46
46:HN:396:HIS:CE1	46:HN:397:TRP:CD1	3.03	0.46
45:IA:263:PRO:HD3	46:ID:396:HIS:CE1	2.51	0.46
46:IB:260:PHE:HB2	46:IB:263:LEU:HD13	1.98	0.46
45:IC:172:TYR:OH	45:IC:191:THR:HG22	2.15	0.46
45:IC:183:GLU:N	45:IC:184:PRO:HD2	2.30	0.46
45:IG:207:GLU:HA	45:IG:210:TYR:CD2	2.50	0.46
45:IG:226:ASN:ND2	45:IG:367:ASP:OD2	2.49	0.46
46:IJ:6:HIS:CE1	46:IJ:8:GLN:NE2	2.84	0.46
46:IJ:299:MET:HE1	46:IJ:367:PHE:CD2	2.51	0.46
45:IK:60:LYS:NZ	45:IK:85:GLN:O	2.47	0.46
46:IN:152:ILE:HA	46:IN:164:MET:HE1	1.98	0.46
46:IN:163:ILE:HD11	46:IN:251:ARG:HA	1.97	0.46
46:JB:65:LEU:HD12	46:JB:90:PHE:CE1	2.51	0.46
46:JB:372:THR:O	46:JB:375:GLN:HG2	2.16	0.46
45:JC:31:GLN:OE1	45:JC:37:PRO:HD3	2.16	0.46
45:JC:98:ASP:OD2	45:JC:99:ALA:N	2.48	0.46
45:JG:278:ALA:HA	45:JG:369:ALA:HB2	1.97	0.46
45:JI:260:VAL:HG23	45:JI:265:ILE:O	2.16	0.46
46:JJ:186:THR:HG23	46:JJ:187:LEU:HD22	1.98	0.46
45:JM:96:LYS:HD2	45:JM:96:LYS:HA	1.71	0.46
46:KF:67:ASP:OD1	46:KF:68:LEU:N	2.45	0.46
46:KH:313:ALA:HB1	46:KH:367:PHE:HE1	1.81	0.46
45:KI:10:GLY:O	45:KI:14:ILE:HG12	2.16	0.46
45:KM:187:SER:O	45:KM:191:THR:HG23	2.15	0.46
46:KN:372:THR:HG21	46:KN:426:GLN:HB3	1.97	0.46
46:LB:63:ALA:O	46:LB:89:ASN:ND2	2.46	0.46
45:MA:393:HIS:HA	45:MA:396:ASP:OD2	2.15	0.46
46:MB:16:ILE:HD12	46:MB:229:VAL:HG11	1.97	0.46
45:MK:105:ARG:HD2	46:ML:251:ARG:HH21	1.80	0.46
46:NB:156:ARG:NE	46:NB:195:ASN:HA	2.30	0.46
45:NC:169:PHE:CD1	45:NC:202:VAL:HG21	2.51	0.46
45:NE:298:PRO:HG3	45:NE:308:ARG:NE	2.29	0.46
45:NE:320:ARG:HG3	45:NE:360:PRO:HG3	1.98	0.46
46:NF:7:ILE:HD11	46:NF:66:MET:HG2	1.98	0.46
46:NJ:342:VAL:HG13	46:NJ:345:ILE:HG22	1.97	0.46
45:NK:210:TYR:CE1	45:NK:227:LEU:HD21	2.49	0.46
45:NM:177:VAL:HG12	45:NM:207:GLU:OE1	2.15	0.46
45:NM:223:THR:HG22	45:NM:224:TYR:N	2.30	0.46
45:OA:206:ASN:OD1	45:OA:207:GLU:N	2.48	0.46
45:OA:210:TYR:HB3	45:OA:214:ARG:HH12	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OC:202:VAL:HG12	45:OC:204:LEU:HG	1.97	0.46
46:OD:58:ARG:NH2	46:OD:84:LEU:HA	2.30	0.46
46:OF:344:TRP:CE3	46:OF:345:ILE:HG23	2.51	0.46
45:OG:178:SER:HB2	46:OH:347:ASN:ND2	2.30	0.46
45:OG:202:VAL:HG12	45:OG:204:LEU:HG	1.97	0.46
46:OH:2:ARG:HG2	46:OH:131:GLN:HG3	1.98	0.46
45:OI:8:HIS:HB2	45:OI:67:PHE:HD1	1.80	0.46
45:OM:10:GLY:O	45:OM:14:ILE:HG12	2.15	0.46
45:OM:88:HIS:ND1	45:OM:90:GLU:HG3	2.30	0.46
45:PA:181:VAL:HG12	46:PB:347:ASN:O	2.15	0.46
45:PC:384:ILE:O	45:PC:387:VAL:HG22	2.16	0.46
45:PE:258:ASN:ND2	45:PE:352:LYS:HE3	2.30	0.46
46:PF:183:TYR:HB3	46:PF:398:TYR:HE2	1.81	0.46
46:PH:184:ASN:OD1	46:PH:185:ALA:N	2.48	0.46
46:PH:238:CYS:SG	46:PH:239:CYS:N	2.89	0.46
45:PI:203:MET:HE2	45:PI:203:MET:HA	1.98	0.46
45:PI:426:ALA:O	45:PI:429:GLU:HG3	2.16	0.46
46:PJ:4:ILE:HG13	46:PJ:132:GLY:O	2.16	0.46
46:PL:333:VAL:HA	46:PL:336:LYS:HG2	1.98	0.46
46:PL:391:ARG:HA	46:PL:391:ARG:HD2	1.72	0.46
45:QC:167:LEU:HD13	45:QC:200:VAL:HB	1.98	0.46
46:QF:341:PHE:HD2	46:QF:348:ASN:HD21	1.64	0.46
46:QH:167:PHE:CE2	46:QH:233:MET:HG3	2.51	0.46
45:QM:141:VAL:HG11	45:QM:172:TYR:CD1	2.47	0.46
46:RD:101:TRP:HB2	46:RD:184:ASN:HB3	1.97	0.46
45:RE:352:LYS:NZ	45:RE:353:VAL:O	2.49	0.46
46:RF:73:MET:N	46:RF:73:MET:SD	2.88	0.46
45:RG:56:THR:HG23	45:RG:58:ALA:H	1.81	0.46
45:RG:317:MET:O	45:RG:318:MET:HE2	2.16	0.46
45:RI:174:SER:HB3	45:RI:207:GLU:OE2	2.16	0.46
45:SG:171:ILE:HG23	45:SG:204:LEU:O	2.16	0.46
45:SI:208:ALA:O	45:SI:212:ILE:HG12	2.16	0.46
46:SJ:253:LEU:O	46:SJ:257:LEU:HD23	2.14	0.46
45:SK:254:GLU:OE2	45:SK:258:ASN:ND2	2.48	0.46
45:SM:75:ILE:HG22	45:SM:79:ARG:NE	2.28	0.46
46:SN:200:MET:HE3	46:SN:268:ILE:HG21	1.98	0.46
45:TC:27:GLU:CD	45:TC:243:ARG:HH21	2.24	0.46
46:TD:178:THR:N	46:TD:181:GLU:OE2	2.44	0.46
45:TI:171:ILE:HG23	45:TI:204:LEU:O	2.16	0.46
46:TJ:143:THR:O	46:TJ:147:MET:HE3	2.16	0.46
45:TK:82:THR:HA	45:TK:84:ARG:NH1	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TK:132:LEU:HG	45:TK:164:LYS:HE2	1.98	0.46
46:TL:252:LYS:NZ	45:TM:98:ASP:OD2	2.48	0.46
46:TL:260:PHE:HB2	46:TL:263:LEU:HD23	1.96	0.46
45:TM:68:LEU:HD13	45:TM:93:ILE:HB	1.98	0.46
46:UB:184:ASN:OD1	46:UB:185:ALA:N	2.49	0.46
45:UE:60:LYS:HZ1	45:UE:86:LEU:HA	1.80	0.46
46:UF:310:TYR:CD1	46:UF:371:SER:HB2	2.50	0.46
45:UI:324:VAL:HG12	45:UI:326:LYS:HG2	1.97	0.46
46:UJ:287:PRO:O	46:UJ:290:THR:HG22	2.15	0.46
46:UJ:310:TYR:CD1	46:UJ:371:SER:HB2	2.50	0.46
45:UM:231:ILE:O	45:UM:235:ILE:HG12	2.15	0.46
46:VB:196:ALA:HB3	46:VB:264:HIS:HE1	1.81	0.46
46:VB:248:SER:HA	46:VB:252:LYS:HD2	1.98	0.46
46:VB:344:TRP:HE3	46:VB:345:ILE:HG23	1.79	0.46
46:VF:240:LEU:HD21	46:VF:249:ASP:HA	1.97	0.46
45:VI:414:GLU:OE2	45:VI:417:GLU:N	2.47	0.46
46:VJ:318:ARG:O	46:VJ:363:MET:HA	2.15	0.46
46:WB:317:PHE:CD1	46:WB:365:VAL:HG22	2.51	0.46
45:WE:206:ASN:HB3	45:WE:210:TYR:CZ	2.51	0.46
46:WF:226:ASN:HD21	49:WF:501:GDP:HN1	1.63	0.46
45:WG:208:ALA:N	45:WG:304:LYS:HD3	2.31	0.46
45:WG:261:PRO:HA	46:WJ:394:PHE:CD2	2.50	0.46
46:WH:210:ILE:HD11	46:WH:299:MET:O	2.15	0.46
46:WH:268:ILE:HG13	46:WH:300:MET:HG3	1.97	0.46
46:WH:377:MET:HA	46:WH:380:ARG:HG2	1.97	0.46
45:WI:68:LEU:HD21	45:WI:118:CYS:SG	2.55	0.46
46:WL:121:ARG:HG2	46:WL:125:GLU:OE1	2.15	0.46
45:WM:189:LEU:HD21	45:WM:418:PHE:CD1	2.50	0.46
46:WN:7:ILE:HG13	46:WN:64:ILE:HD13	1.96	0.46
45:DC:319:TYR:CE2	45:DC:328:VAL:HG22	2.50	0.46
2:0B:106:LYS:HB2	22:2M:120:ASN:HD21	1.79	0.46
3:0C:93:LYS:HB2	3:0C:96:LYS:HE2	1.98	0.46
6:0F:108:ARG:NH2	6:0F:182:ALA:O	2.49	0.46
7:0G:5:THR:OG1	7:0G:6:ILE:N	2.49	0.46
8:0H:382:ARG:HA	8:0H:385:GLU:OE2	2.16	0.46
13:0U:5:LEU:HD12	13:0U:6:ASP:H	1.80	0.46
13:0U:324:ASN:ND2	13:0U:364:GLU:OE2	2.36	0.46
16:1B:356:PHE:O	16:1B:359:VAL:HG12	2.16	0.46
8:1H:273:GLU:O	8:1H:277:GLU:OE1	2.34	0.46
8:1H:274:LEU:HB3	46:HF:360:GLY:CA	2.45	0.46
21:1L:26:THR:HG22	21:1L:30:ASP:HB2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:1L:555:LYS:HG2	46:BF:320:ARG:HH12	1.81	0.46
22:1M:174:LEU:HD21	22:1M:191:ARG:NH2	2.31	0.46
22:1M:329:ALA:HB1	22:1M:339:ALA:HB2	1.98	0.46
23:1O:114:PHE:CZ	23:2O:344:MET:HE1	2.50	0.46
23:1O:226:GLU:O	23:1O:229:GLU:HG3	2.16	0.46
24:1P:269:ALA:HA	45:TE:372:MET:CE	2.45	0.46
25:1R:232:LEU:HD22	46:BF:73:MET:HE1	1.97	0.46
12:1T:109:CYS:SG	12:1T:203:TYR:OH	2.40	0.46
13:1U:36:SER:N	13:1U:575:SER:OG	2.49	0.46
1:2A:151:HIS:NE2	1:2A:153:PRO:HG3	2.30	0.46
28:2F:17:LYS:HA	28:2F:20:GLU:OE1	2.16	0.46
21:2L:343:ASP:OD1	21:2L:344:PHE:N	2.49	0.46
23:2O:154:THR:O	23:2O:158:LYS:HG2	2.15	0.46
23:2O:160:LEU:O	23:2O:163:LYS:HG2	2.16	0.46
24:2P:391:ARG:HA	24:2P:394:GLN:NE2	2.31	0.46
11:2S:20:ASN:ND2	46:WJ:74:ASP:OD1	2.39	0.46
11:2S:275:TYR:HA	46:WJ:122:LYS:NZ	2.31	0.46
12:2T:54:GLU:OE1	12:2T:54:GLU:HA	2.15	0.46
13:2U:576:GLY:HA3	13:2U:596:GLU:CD	2.40	0.46
14:2V:86:ARG:O	14:2V:86:ARG:HD2	2.15	0.46
26:2W:221:LYS:HA	26:2W:224:GLU:OE2	2.16	0.46
27:3C:219:GLN:HA	27:3C:222:ILE:HD12	1.98	0.46
5:3E:29:ARG:NE	5:3E:151:CYS:HA	2.30	0.46
10:3Q:7:GLN:O	10:3Q:7:GLN:HG2	2.15	0.46
10:3Q:173:SER:OG	10:3Q:176:GLU:OE1	2.33	0.46
11:3S:143:LEU:H	11:3S:143:LEU:HD23	1.80	0.46
13:3U:389:PHE:HA	13:3U:396:LEU:HA	1.98	0.46
13:3U:458:LYS:NZ	13:3U:462:ASP:HB2	2.31	0.46
14:3V:164:VAL:HG12	14:3V:164:VAL:O	2.15	0.46
33:4F:23:LYS:HA	45:HI:225:THR:HG21	1.97	0.46
33:4F:159:PRO:HB2	33:4F:163:LYS:HB2	1.98	0.46
33:4F:193:LYS:NZ	45:IM:220:GLU:H	2.14	0.46
10:4Q:6:PHE:HE2	45:WI:120:ASP:HB2	1.81	0.46
10:4Q:53:ASN:ND2	45:AI:396:ASP:OD1	2.48	0.46
35:4S:92:GLU:HG3	35:4S:94:GLU:OE1	2.15	0.46
36:5B:27:LYS:NZ	36:5B:31:SER:OG	2.49	0.46
37:5E:123:ARG:HA	45:OA:370:LYS:HD2	1.97	0.46
37:5H:60:TRP:CZ3	46:ON:279:GLN:HG2	2.50	0.46
37:5H:96:TYR:O	37:5H:100:VAL:HG22	2.15	0.46
41:6H:200:GLN:NE2	41:6H:201:ILE:HG23	2.30	0.46
34:7R:253:ARG:HH11	45:CA:42:ILE:HD11	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:7R:397:SER:OG	46:EB:276:ARG:NE	2.28	0.46
46:AD:257:LEU:O	46:AD:259:PRO:HD3	2.16	0.46
46:AF:91:VAL:HG21	46:AF:116:VAL:HB	1.98	0.46
45:AG:322:ASP:OD1	45:AG:373:ARG:NH1	2.48	0.46
46:AH:403:MET:HE2	46:AH:408:PHE:CE2	2.51	0.46
45:AK:100:ALA:O	46:AL:255:VAL:HG11	2.16	0.46
45:BA:36:MET:SD	45:BA:37:PRO:HD2	2.56	0.46
45:BA:394:LYS:HE2	46:BB:346:PRO:HG2	1.98	0.46
45:BC:88:HIS:CD2	45:CC:280:LYS:NZ	2.84	0.46
45:BE:178:SER:HB2	45:BE:183:GLU:OE1	2.15	0.46
45:BE:268:MET:HG3	45:BE:380:ASN:HB2	1.98	0.46
46:BH:105:HIS:CD2	46:BH:150:LEU:HB2	2.49	0.46
46:BH:217:LEU:HG	46:BH:220:PRO:HD3	1.98	0.46
46:BH:380:ARG:O	46:BH:384:GLN:HG3	2.16	0.46
46:BL:245:GLN:NE2	46:BL:245:GLN:CA	2.79	0.46
45:BM:265:ILE:HG22	45:BM:432:TYR:HE1	1.81	0.46
45:BM:294:SER:O	45:BM:297:GLU:HG2	2.15	0.46
45:CA:141:VAL:HG11	45:CA:172:TYR:CD1	2.50	0.46
46:CB:252:LYS:HA	45:CC:100:ALA:HB1	1.97	0.46
45:CC:427:ALA:HA	45:CC:430:LYS:NZ	2.30	0.46
46:CH:238:CYS:SG	46:CH:239:CYS:N	2.89	0.46
46:CL:372:THR:HA	46:CL:422:TYR:CE2	2.51	0.46
46:DB:167:PHE:CD2	46:DB:200:MET:HB2	2.50	0.46
46:DD:11:GLN:HB3	46:DD:72:THR:HG21	1.97	0.46
46:DD:165:GLU:OE2	46:DD:200:MET:HE1	2.15	0.46
45:DE:326:LYS:HG3	45:DE:327:ASP:H	1.80	0.46
45:DG:39:ASP:N	45:DG:39:ASP:OD1	2.48	0.46
45:DG:399:TYR:CE1	45:DG:418:PHE:HD2	2.34	0.46
46:DH:116:VAL:HA	46:DH:119:VAL:HG22	1.98	0.46
46:DL:317:PHE:HE1	46:DL:326:VAL:HG13	1.80	0.46
46:DL:344:TRP:CG	45:DM:401:LYS:HZ1	2.33	0.46
46:DN:268:ILE:HG22	46:DN:368:VAL:HG22	1.97	0.46
45:EA:272:TYR:HD1	45:EA:376:CYS:HB2	1.81	0.46
46:EB:320:ARG:HD3	46:EB:320:ARG:H	1.79	0.46
46:EF:318:ARG:HH11	46:EF:358:PRO:HG3	1.81	0.46
46:EH:8:GLN:NE2	46:EH:65:LEU:HG	2.31	0.46
46:EH:172:SER:OG	46:EH:175:VAL:HG22	2.16	0.46
46:EL:345:ILE:HD13	45:EM:398:MET:SD	2.56	0.46
46:FD:119:VAL:HA	46:FD:122:LYS:HE2	1.98	0.46
46:FD:414:ASN:O	46:FD:418:LEU:HD23	2.16	0.46
45:FE:68:LEU:HD11	45:FE:118:CYS:SG	2.55	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FE:431:ASP:O	45:FE:434:GLU:HG3	2.16	0.46
45:FM:4:VAL:HG13	45:FM:52:PHE:CE1	2.50	0.46
46:GB:309:ARG:NE	46:GB:309:ARG:HA	2.30	0.46
46:GD:21:TRP:CD1	46:GD:85:PHE:HZ	2.34	0.46
46:GD:372:THR:HA	46:GD:422:TYR:CE2	2.45	0.46
45:GG:123:ARG:HH22	45:GG:124:LYS:HB2	1.81	0.46
45:GI:102:ASN:ND2	45:GI:411:GLU:HG3	2.30	0.46
45:GI:184:PRO:O	45:GI:188:ILE:HG12	2.15	0.46
45:GI:317:MET:O	45:GI:318:MET:HE2	2.16	0.46
46:GJ:263:LEU:HD22	46:GJ:422:TYR:CD1	2.47	0.46
45:HA:69:ASP:OD1	45:HA:70:LEU:N	2.48	0.46
45:HC:258:ASN:ND2	45:HC:352:LYS:HE3	2.31	0.46
46:HF:156:ARG:NH1	46:HF:195:ASN:O	2.45	0.46
45:HI:408:TYR:O	45:HI:413:MET:HB3	2.16	0.46
46:HJ:166:THR:HG21	46:HJ:192:LEU:HD11	1.97	0.46
45:IA:8:HIS:HB2	45:IA:67:PHE:HD2	1.80	0.46
45:IA:203:MET:HE3	45:IA:267:PHE:HB3	1.97	0.46
46:ID:285:THR:O	46:ID:288:GLU:HG3	2.15	0.46
45:IE:216:ASN:HB3	45:IE:275:ILE:O	2.16	0.46
46:IH:204:ASN:OD1	49:IH:501:GDP:O2'	2.33	0.46
45:JA:217:LEU:HB3	45:JA:219:ILE:HG13	1.98	0.46
46:JB:336:LYS:HB3	46:JB:336:LYS:HE3	1.75	0.46
45:JC:88:HIS:HE1	45:JC:90:GLU:HG2	1.79	0.46
45:JE:242:LEU:HD11	45:JE:252:ILE:HG23	1.97	0.46
46:JF:68:LEU:HB3	46:JF:96:GLY:HA2	1.98	0.46
45:JI:339:ARG:O	45:JI:342:GLN:NE2	2.48	0.46
46:JJ:208:TYR:HE1	46:JJ:225:LEU:HD11	1.81	0.46
45:JK:317:MET:HE1	45:JK:351:PHE:CD1	2.51	0.46
46:JL:266:PHE:CE1	46:JL:370:ASN:HB2	2.51	0.46
46:KB:68:LEU:HD12	46:KB:97:ALA:HB2	1.97	0.46
46:KD:54:ALA:HA	46:LD:283:ALA:HB2	1.98	0.46
46:KF:334:GLN:NE2	46:KF:348:ASN:OD1	2.49	0.46
46:KJ:190:HIS:NE2	46:KJ:410:GLU:OE1	2.49	0.46
45:LA:37:PRO:O	45:LA:38:SER:OG	2.29	0.46
45:LC:288:VAL:CG1	45:LC:327:ASP:HB3	2.46	0.46
46:LD:3:GLU:OE1	46:LD:3:GLU:N	2.42	0.46
46:LD:423:GLN:HE21	46:LD:424:GLN:HG2	1.80	0.46
46:LH:302:ALA:N	46:LH:377:MET:HE1	2.30	0.46
46:LH:345:ILE:O	46:LH:345:ILE:HG13	2.15	0.46
45:LM:212:ILE:HD11	45:LM:300:ASN:HA	1.97	0.46
45:MA:254:GLU:O	45:MA:255:PHE:HD1	1.99	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MC:172:TYR:HH	45:MC:191:THR:HG1	1.63	0.46
45:MC:242:LEU:HD11	45:MC:252:ILE:HG12	1.97	0.46
45:MI:194:LEU:O	45:MI:198:THR:HG22	2.16	0.46
45:MI:288:VAL:HA	45:MI:291:ILE:HG12	1.96	0.46
46:MJ:294:PHE:HE2	46:MJ:333:VAL:HG11	1.81	0.46
45:MM:187:SER:O	45:MM:191:THR:HG23	2.15	0.46
45:MM:205:ASP:OD1	45:MM:206:ASN:N	2.49	0.46
46:NB:117:LEU:HA	46:NB:120:VAL:HG12	1.97	0.46
46:NB:344:TRP:CD1	46:NB:345:ILE:HG12	2.51	0.46
46:ND:318:ARG:HB2	46:ND:364:ALA:HB3	1.98	0.46
45:NG:11:GLN:HG3	45:NG:74:VAL:HG11	1.97	0.46
45:NI:258:ASN:ND2	45:NI:352:LYS:HE2	2.30	0.46
45:NK:11:GLN:HG3	45:NK:74:VAL:HG11	1.97	0.46
45:NM:322:ASP:C	45:NM:373:ARG:HH12	2.23	0.46
46:OB:249:ASP:OD1	46:OB:252:LYS:N	2.46	0.46
46:OH:65:LEU:HD22	46:OH:90:PHE:CE1	2.50	0.46
46:OH:180:VAL:O	46:OH:180:VAL:HG12	2.15	0.46
46:OL:19:LYS:HG3	46:OL:226:ASN:HB3	1.98	0.46
45:OM:210:TYR:HD1	46:ON:324:LYS:HE3	1.80	0.46
45:PA:210:TYR:HE1	45:PA:227:LEU:HD11	1.81	0.46
45:PE:119:LEU:HG	45:PE:156:ARG:HH21	1.80	0.46
45:PG:98:ASP:OD1	45:PG:99:ALA:N	2.48	0.46
45:PG:346:TRP:CD1	46:PJ:391:ARG:HG3	2.50	0.46
45:QA:104:ALA:HB2	45:QA:413:MET:HE3	1.97	0.46
45:QA:211:ASP:HA	45:QA:214:ARG:HG3	1.98	0.46
46:QB:186:THR:HA	46:QB:189:VAL:HG12	1.96	0.46
46:QB:331:LEU:O	46:QB:334:GLN:HG2	2.16	0.46
45:QC:287:SER:HB3	45:QC:290:GLU:OE1	2.16	0.46
46:QF:258:ILE:HG13	46:QF:258:ILE:O	2.16	0.46
46:QH:318:ARG:HB3	46:QH:357:PRO:HA	1.97	0.46
46:QL:327:ASP:OD1	46:QL:328:GLU:N	2.48	0.46
45:QM:19:ALA:O	45:QM:22:GLU:HG3	2.16	0.46
45:RA:60:LYS:HD3	45:SA:283:HIS:CG	2.51	0.46
46:RB:131:GLN:NE2	45:RC:97:GLU:OE1	2.42	0.46
46:RB:260:PHE:HB2	46:RB:263:LEU:HD13	1.97	0.46
45:RG:82:THR:HA	45:RG:84:ARG:HH12	1.81	0.46
45:RG:252:ILE:HD12	45:RG:252:ILE:H	1.80	0.46
46:RH:9:GLY:HA2	46:RH:66:MET:O	2.15	0.46
46:RJ:5:VAL:HG11	46:RJ:123:GLU:HG3	1.96	0.46
46:RJ:288:GLU:O	46:RJ:291:GLN:HG3	2.15	0.46
46:SB:253:LEU:HD13	46:SB:350:LYS:HZ3	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SB:314:SER:HA	46:SB:350:LYS:O	2.15	0.46
46:SD:16:ILE:HD12	46:SD:229:VAL:HG21	1.97	0.46
46:SD:97:ALA:HB3	46:SD:143:THR:HB	1.98	0.46
46:SD:325:GLU:HA	46:SD:328:GLU:OE2	2.16	0.46
45:SE:133:GLN:HB3	45:SE:252:ILE:HD11	1.97	0.46
45:SG:214:ARG:NH2	45:SG:222:PRO:HD3	2.30	0.46
46:SH:380:ARG:O	46:SH:384:GLN:HG2	2.16	0.46
46:SJ:91:VAL:HG21	46:SJ:116:VAL:HB	1.98	0.46
46:SJ:165:GLU:HG2	46:SJ:250:LEU:HD11	1.98	0.46
46:SJ:334:GLN:HA	46:SJ:341:PHE:HE1	1.81	0.46
45:SK:253:THR:HA	45:SK:256:GLN:NE2	2.31	0.46
45:SK:288:VAL:HA	45:SK:291:ILE:HG12	1.97	0.46
45:SM:101:ASN:HA	45:SM:144:GLY:H	1.81	0.46
45:TA:387:VAL:HA	45:TA:390:ARG:HG2	1.98	0.46
46:TB:288:GLU:O	46:TB:291:GLN:NE2	2.49	0.46
45:TE:338:LYS:HG3	45:TE:340:THR:HG22	1.98	0.46
46:TF:210:ILE:HD13	46:TF:300:MET:HE1	1.98	0.46
45:TG:141:VAL:HG12	45:TG:171:ILE:O	2.16	0.46
46:TJ:86:ARG:HE	46:UJ:282:ARG:HH12	1.62	0.46
45:TK:79:ARG:O	45:TK:84:ARG:HG3	2.15	0.46
45:TK:338:LYS:HG3	45:TK:340:THR:H	1.80	0.46
46:TL:32:PRO:HB3	46:TL:81:PHE:HD1	1.80	0.46
46:TL:377:MET:HE3	46:TL:380:ARG:HD3	1.98	0.46
45:TM:226:ASN:O	45:TM:230:LEU:HD23	2.16	0.46
46:UD:19:LYS:O	46:UD:22:GLU:HG3	2.15	0.46
45:UE:121:ARG:NE	45:UE:121:ARG:HA	2.30	0.46
45:UE:318:MET:O	45:UE:375:VAL:HA	2.16	0.46
45:UE:358:GLN:OE1	45:UE:359:PRO:HD2	2.15	0.46
46:UF:391:ARG:HD2	46:UF:391:ARG:HA	1.70	0.46
45:UG:141:VAL:HG22	45:UG:187:SER:HA	1.98	0.46
45:UI:5:ILE:HD13	45:UI:135:PHE:HE1	1.80	0.46
45:UI:329:ASN:HA	45:UI:332:ILE:HG22	1.97	0.46
46:UL:16:ILE:HD13	46:UL:226:ASN:OD1	2.16	0.46
45:UM:53:PHE:HE1	45:UM:63:PRO:HG3	1.81	0.46
45:UM:186:ASN:OD1	45:UM:187:SER:N	2.48	0.46
45:UM:268:MET:HG3	45:UM:380:ASN:HB2	1.98	0.46
46:UN:87:PRO:HD2	46:VN:281:TYR:CE1	2.46	0.46
45:VA:107:HIS:ND1	45:VA:107:HIS:O	2.49	0.46
46:VB:3:GLU:OE2	46:VB:128:ASP:N	2.47	0.46
45:VC:10:GLY:O	45:VC:14:ILE:HG12	2.16	0.46
45:VE:251:ASP:HB3	45:VE:254:GLU:OE1	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VE:288:VAL:HA	45:VE:291:ILE:HG12	1.98	0.46
45:VG:413:MET:HB3	45:VG:417:GLU:OE2	2.15	0.46
45:VI:350:GLY:HA2	46:VL:179:VAL:HG12	1.97	0.46
46:VJ:31:ASP:HB2	46:VJ:32:PRO:HD2	1.98	0.46
45:VM:71:GLU:OE2	46:VN:2:ARG:NH1	2.49	0.46
45:VM:171:ILE:HG23	45:VM:204:LEU:O	2.15	0.46
45:VM:292:THR:HG21	45:VM:331:SER:HB3	1.98	0.46
46:WB:7:ILE:HG13	46:WB:64:ILE:HD13	1.98	0.46
45:WC:301:MET:HE1	45:WC:307:PRO:HD3	1.97	0.46
46:WH:1:MET:HG3	46:WH:2:ARG:H	1.81	0.46
46:WH:201:VAL:HG13	46:WH:301:CYS:SG	2.56	0.46
45:WK:196:GLU:HG2	45:WK:197:HIS:ND1	2.31	0.46
45:WM:72:PRO:HG2	46:WN:1:MET:HE2	1.96	0.46
46:WN:253:LEU:O	46:WN:257:LEU:HB2	2.16	0.46
45:CE:184:PRO:O	45:CE:188:ILE:HG12	2.15	0.46
5:0E:86:CYS:O	5:0E:89:ARG:HD2	2.15	0.46
6:0F:140:VAL:HG11	45:FC:79:ARG:HD2	1.97	0.46
8:0H:405:GLU:HG2	8:0H:406:TYR:CD1	2.51	0.46
9:0N:190:PRO:HA	9:0N:193:ARG:HH12	1.79	0.46
13:0U:57:GLN:HE22	13:0U:596:GLU:HG2	1.80	0.46
13:0U:256:ALA:HB3	13:0U:260:THR:HB	1.98	0.46
14:0V:24:ARG:NH2	45:MM:430:LYS:HA	2.31	0.46
15:0X:91:LYS:O	15:0X:94:SER:OG	2.28	0.46
3:1C:96:LYS:HZ1	45:EM:364:PRO:HB3	1.80	0.46
5:1E:24:ILE:HG22	5:1E:170:ALA:HB1	1.97	0.46
5:1E:63:GLU:OE1	5:1E:63:GLU:N	2.49	0.46
19:1J:244:LEU:HD23	29:2G:99:HIS:NE2	2.31	0.46
20:1K:183:TYR:HA	46:GD:362:LYS:HE2	1.97	0.46
20:1K:249:GLU:HG3	46:GB:276:ARG:NH2	2.30	0.46
22:1M:10:VAL:HG11	22:1M:71:LEU:HD23	1.97	0.46
9:1N:331:GLU:OE1	9:1N:355:HIS:ND1	2.49	0.46
11:1S:180:GLU:HG2	11:1S:185:TYR:HB2	1.98	0.46
13:1U:100:LEU:HD12	13:1U:132:TRP:CZ2	2.51	0.46
14:1V:72:GLY:HA2	46:MJ:340:TYR:CE1	2.50	0.46
15:1X:49:ILE:HD11	45:ME:282:TYR:CG	2.51	0.46
16:2B:287:GLU:N	16:2B:287:GLU:OE1	2.45	0.46
27:2C:67:LYS:NZ	45:LI:81:GLY:HA2	2.31	0.46
4:2D:23:ARG:HB3	4:2D:23:ARG:NH1	2.30	0.46
28:2F:85:MET:HE1	45:GE:95:GLY:CA	2.45	0.46
20:2K:219:GLN:HA	20:2K:222:MET:HG2	1.97	0.46
20:2K:456:GLU:HG2	20:2K:459:ARG:HH12	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:2L:752:LEU:HD13	21:2L:781:MET:HE3	1.97	0.46
22:2M:123:MET:HE2	22:2M:267:LEU:HD23	1.97	0.46
9:2N:256:ARG:C	9:2N:257:LYS:HD3	2.41	0.46
23:2O:342:ARG:O	23:2O:346:GLN:HG2	2.15	0.46
10:2Q:46:VAL:HG21	10:2Q:129:TRP:HH2	1.81	0.46
25:2R:192:ILE:HD12	25:2R:192:ILE:H	1.80	0.46
25:2R:315:GLN:HA	46:CH:276:ARG:HH21	1.80	0.46
25:2R:346:ASP:O	25:2R:349:THR:OG1	2.31	0.46
12:2T:136:HIS:O	12:2T:141:LYS:NZ	2.48	0.46
13:2U:449:ARG:HH22	45:VI:84:ARG:NH1	2.12	0.46
13:2U:515:THR:HB	13:2U:517:TRP:NE1	2.25	0.46
32:3D:130:LEU:HD21	32:3D:144:PRO:HG3	1.97	0.46
32:3D:184:ALA:HB1	32:3D:188:LYS:NZ	2.31	0.46
10:3Q:141:ARG:NH2	10:3Q:147:ASN:OD1	2.49	0.46
13:3U:84:ILE:HG13	13:3U:105:ILE:HD13	1.96	0.46
15:3X:49:ILE:O	15:3X:53:ILE:HG12	2.16	0.46
27:4C:15:ILE:HD13	27:4C:18:GLU:OE2	2.16	0.46
10:4Q:42:ILE:HD11	10:4Q:186:PRO:HD3	1.98	0.46
10:4Q:178:PRO:HD2	10:4Q:181:PHE:CD2	2.49	0.46
15:4X:117:SER:O	15:4X:120:GLU:HG3	2.15	0.46
37:5F:9:TYR:O	37:5F:14:ARG:NH1	2.44	0.46
37:5F:213:TYR:O	46:LJ:390:ARG:NH1	2.45	0.46
37:5H:22:LYS:HG3	37:5H:23:ASP:N	2.29	0.46
37:5H:110:ARG:HD3	37:5H:112:ALA:N	2.28	0.46
34:5R:259:ASN:HB3	34:5R:350:PHE:CZ	2.51	0.46
45:AA:283:HIS:HD1	45:MA:88:HIS:HA	1.80	0.46
46:AD:178:THR:HG22	46:AD:180:VAL:H	1.79	0.46
45:AG:171:ILE:HG23	45:AG:204:LEU:O	2.15	0.46
46:AH:3:GLU:H	46:AH:3:GLU:CD	2.24	0.46
46:AL:146:GLY:O	46:AL:149:THR:HG22	2.16	0.46
46:AL:372:THR:HA	46:AL:422:TYR:CE2	2.47	0.46
45:AM:90:GLU:CG	45:BM:280:LYS:HZ1	2.28	0.46
45:BE:174:SER:HB2	45:BE:177:VAL:O	2.16	0.46
46:BF:226:ASN:HA	46:BF:229:VAL:HG12	1.98	0.46
46:BF:321:MET:HB2	46:BF:325:GLU:OE2	2.16	0.46
45:BI:224:TYR:HE1	47:BI:501:GTP:C5	2.34	0.46
45:BI:224:TYR:CD1	47:BI:501:GTP:C6	3.04	0.46
46:BJ:207:LEU:HB3	46:BJ:225:LEU:HD22	1.98	0.46
45:BK:317:MET:SD	45:BK:377:MET:HG2	2.55	0.46
45:BK:422:ARG:HG3	45:BK:422:ARG:HH11	1.80	0.46
46:BL:86:ARG:HB2	46:BL:89:ASN:OD1	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BL:117:LEU:HA	46:BL:120:VAL:HG12	1.97	0.46
45:BM:36:MET:SD	45:BM:37:PRO:HD2	2.56	0.46
46:BN:28:HIS:C	46:BN:43:GLN:HE21	2.24	0.46
45:CA:387:VAL:HA	45:CA:390:ARG:HG2	1.98	0.46
46:CB:8:GLN:NE2	46:CB:14:ASN:OD1	2.49	0.46
46:CH:6:HIS:O	46:CH:63:ALA:HA	2.16	0.46
46:CL:344:TRP:HB3	46:CL:430:ALA:HB2	1.97	0.46
45:CM:73:THR:O	45:CM:77:GLU:HG2	2.16	0.46
46:DF:65:LEU:HD22	46:DF:90:PHE:HE1	1.80	0.46
46:DJ:21:TRP:CZ3	46:DJ:61:PRO:HB3	2.50	0.46
46:DJ:237:THR:HG23	46:DJ:241:ARG:HH21	1.80	0.46
46:DL:248:SER:HB2	46:DL:252:LYS:HG2	1.97	0.46
45:EA:288:VAL:HA	45:EA:291:ILE:HG12	1.96	0.46
45:EC:92:LEU:HD12	45:EC:92:LEU:O	2.16	0.46
46:ED:380:ARG:O	46:ED:383:GLU:HG2	2.16	0.46
46:EH:183:TYR:HA	46:EH:385:PHE:CE1	2.50	0.46
45:EK:296:PHE:HE2	45:EK:335:ILE:HD12	1.81	0.46
46:FD:376:GLU:O	46:FD:380:ARG:HG2	2.16	0.46
45:FE:102:ASN:HD21	45:FE:411:GLU:HG3	1.81	0.46
46:FF:156:ARG:HH21	46:FF:164:MET:HB2	1.80	0.46
46:FF:284:LEU:HD21	46:FF:363:MET:H	1.80	0.46
46:FH:292:GLN:HG2	46:FH:298:ASN:ND2	2.31	0.46
45:FI:407:TRP:HE1	46:FJ:258:ILE:HG13	1.81	0.46
45:FK:187:SER:O	45:FK:191:THR:HG23	2.16	0.46
45:GA:319:TYR:HA	45:GA:374:ALA:O	2.16	0.46
46:GD:36:TYR:CE2	46:GD:44:LEU:HG	2.51	0.46
46:GD:318:ARG:HB2	46:GD:364:ALA:HB3	1.98	0.46
46:GF:221:THR:HG23	46:GF:223:GLY:H	1.81	0.46
45:GK:90:GLU:HG2	45:HK:280:LYS:NZ	2.31	0.46
47:GK:501:GTP:O1G	46:GL:252:LYS:NZ	2.28	0.46
46:GL:209:ASP:OD1	46:GL:213:ARG:NH2	2.49	0.46
46:GN:31:ASP:OD2	46:GN:37:HIS:ND1	2.48	0.46
46:GN:202:ILE:HD12	46:GN:300:MET:HG2	1.97	0.46
46:HD:257:LEU:HD23	46:HD:266:PHE:CE2	2.51	0.46
46:HD:418:LEU:O	46:HD:422:TYR:HB2	2.16	0.46
45:HE:213:CYS:SG	45:HE:219:ILE:HB	2.55	0.46
45:HG:257:THR:HG22	46:HJ:397:TRP:CH2	2.51	0.46
46:HJ:374:ILE:HG22	46:HJ:422:TYR:CE2	2.51	0.46
45:HK:71:GLU:HB2	46:HL:2:ARG:HH12	1.80	0.46
45:HK:209:ILE:HG23	45:HK:227:LEU:HD22	1.98	0.46
45:HK:319:TYR:HE2	45:HK:328:VAL:HG22	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:HN:233:MET:O	46:HN:236:VAL:HG22	2.16	0.46
46:IB:226:ASN:HD21	49:IB:501:GDP:HN1	1.62	0.46
46:IB:290:THR:HA	46:IB:293:MET:HE2	1.98	0.46
45:IE:331:SER:O	45:IE:335:ILE:HG12	2.16	0.46
45:IG:75:ILE:O	45:IG:79:ARG:HG3	2.16	0.46
45:IG:152:LEU:O	45:IG:155:GLU:HG3	2.15	0.46
45:IG:216:ASN:HB3	45:IG:275:ILE:O	2.16	0.46
45:II:345:ASP:OD1	45:II:346:TRP:N	2.49	0.46
46:IJ:72:THR:O	46:IJ:75:SER:OG	2.26	0.46
46:IJ:405:GLU:HA	46:IJ:408:PHE:HD1	1.81	0.46
46:IL:221:THR:HG23	46:IL:224:ASP:H	1.79	0.46
45:IM:47:ASP:OD2	45:IM:50:ASN:ND2	2.48	0.46
45:JG:21:TRP:CZ2	45:JG:65:ALA:HB2	2.50	0.46
46:JH:68:LEU:HD12	46:JH:97:ALA:HB2	1.98	0.46
45:JI:88:HIS:HB3	45:JI:91:GLN:CD	2.41	0.46
45:JK:377:MET:HE3	45:JK:378:ILE:H	1.80	0.46
46:JL:36:TYR:CZ	46:JL:38:GLY:HA3	2.51	0.46
46:JL:65:LEU:HD22	46:JL:90:PHE:CE1	2.51	0.46
46:JL:74:ASP:HA	46:JL:77:ARG:NE	2.30	0.46
46:JN:32:PRO:HA	46:JN:84:LEU:HD11	1.97	0.46
46:JN:250:LEU:HD23	46:JN:250:LEU:HA	1.79	0.46
46:KB:167:PHE:CE2	46:KB:233:MET:HG2	2.51	0.46
46:KF:12:CYS:O	46:KF:16:ILE:HG12	2.15	0.46
45:KG:35:GLN:N	45:KG:35:GLN:OE1	2.49	0.46
45:KG:259:LEU:HB3	45:KG:268:MET:HE1	1.98	0.46
45:KG:262:TYR:HB2	45:KG:265:ILE:HG12	1.98	0.46
45:KI:280:LYS:HD3	45:KI:280:LYS:HA	1.74	0.46
46:KN:418:LEU:HA	46:KN:421:GLU:OE1	2.16	0.46
46:LB:321:MET:N	46:LB:321:MET:SD	2.89	0.46
45:LE:222:PRO:HG2	46:LF:324:LYS:HE3	1.98	0.46
46:LH:293:MET:SD	46:LH:367:PHE:HB2	2.55	0.46
46:MB:202:ILE:HD11	46:MB:268:ILE:HD11	1.98	0.46
46:MD:99:ASN:HA	46:MD:142:GLY:H	1.80	0.46
46:MD:190:HIS:CD2	46:MD:414:ASN:HD22	2.34	0.46
46:MH:5:VAL:HA	46:MH:62:ARG:HD3	1.97	0.46
46:MH:257:LEU:HD21	46:MH:314:SER:HB2	1.98	0.46
45:MI:200:VAL:HG13	45:MI:268:MET:HE1	1.98	0.46
46:ND:262:ARG:NH1	46:ND:421:GLU:OE2	2.49	0.46
45:NG:10:GLY:O	45:NG:14:ILE:HG12	2.15	0.46
45:NG:221:ARG:HA	46:NH:324:LYS:HZ1	1.81	0.46
45:NG:345:ASP:OD1	45:NG:346:TRP:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NK:352:LYS:HD2	45:NK:353:VAL:H	1.80	0.46
46:NL:238:CYS:HB2	46:NL:318:ARG:HH11	1.79	0.46
45:NM:174:SER:HB2	45:NM:177:VAL:O	2.16	0.46
46:NN:116:VAL:HA	46:NN:119:VAL:HG12	1.98	0.46
46:NN:248:SER:HA	46:NN:252:LYS:HD2	1.97	0.46
45:OA:183:GLU:N	45:OA:184:PRO:HD2	2.31	0.46
46:OB:3:GLU:OE2	46:OB:62:ARG:HD2	2.16	0.46
46:OF:19:LYS:HZ1	46:OF:22:GLU:HG3	1.79	0.46
46:OF:20:PHE:HA	46:OF:230:SER:HB2	1.97	0.46
46:OF:58:ARG:NH2	46:OF:84:LEU:HA	2.31	0.46
45:OG:326:LYS:HE3	45:OG:326:LYS:HB3	1.74	0.46
46:OH:99:ASN:HA	46:OH:142:GLY:HA3	1.97	0.46
45:OI:3:GLU:HG2	45:OI:132:LEU:HA	1.98	0.46
45:OI:107:HIS:ND1	45:OI:107:HIS:O	2.48	0.46
45:OM:107:HIS:O	45:OM:107:HIS:ND1	2.49	0.46
46:ON:213:ARG:NH2	46:ON:297:LYS:HB3	2.31	0.46
46:PB:105:HIS:CE1	46:PB:150:LEU:HD12	2.50	0.46
45:PC:18:ASN:O	45:PC:22:GLU:HG2	2.15	0.46
45:PC:88:HIS:CG	45:QC:280:LYS:HE2	2.51	0.46
45:PE:107:HIS:HA	45:PE:152:LEU:HD11	1.98	0.46
46:PF:55:THR:HG23	46:QD:283:ALA:HA	1.98	0.46
45:PG:326:LYS:NZ	46:PJ:220:PRO:HD2	2.30	0.46
45:PG:352:LYS:HE2	46:PJ:179:VAL:HG13	1.98	0.46
46:PH:203:ASP:HB3	46:PH:205:GLU:CD	2.41	0.46
45:PK:8:HIS:HB2	45:PK:67:PHE:CD2	2.50	0.46
46:PL:39:ASP:OD1	46:PL:40:SER:N	2.49	0.46
45:PM:399:TYR:O	45:PM:402:ARG:NH1	2.49	0.46
46:PN:12:CYS:O	46:PN:16:ILE:HG12	2.15	0.46
46:PN:194:GLU:HG3	46:PN:262:ARG:HH22	1.80	0.46
45:QA:76:ASP:OD1	45:QA:79:ARG:NH2	2.49	0.46
46:QB:282:ARG:NH2	46:QB:292:GLN:OE1	2.47	0.46
45:QC:102:ASN:HB3	45:QC:105:ARG:HG3	1.97	0.46
46:QD:200:MET:HE1	46:QD:266:PHE:CD2	2.51	0.46
46:QD:310:TYR:CD2	46:QD:371:SER:HB2	2.51	0.46
46:QF:3:GLU:HG3	46:QF:49:VAL:HA	1.96	0.46
46:QF:8:GLN:HE21	46:QF:65:LEU:CD2	2.29	0.46
45:QG:104:ALA:HB2	45:QG:413:MET:HE3	1.97	0.46
46:QL:181:GLU:HB3	46:QL:182:PRO:HD3	1.98	0.46
46:QL:216:LYS:HG2	46:QL:216:LYS:O	2.15	0.46
46:QN:65:LEU:HD22	46:QN:90:PHE:CE1	2.51	0.46
46:RB:257:LEU:HD21	46:RB:314:SER:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RD:371:SER:O	46:RD:422:TYR:OH	2.28	0.46
45:RE:328:VAL:O	45:RE:332:ILE:HG23	2.16	0.46
46:RH:193:VAL:HG21	46:RH:418:LEU:HD22	1.97	0.46
45:RK:155:GLU:HG3	45:RK:197:HIS:CD2	2.49	0.46
46:RL:167:PHE:HE2	46:RL:200:MET:SD	2.38	0.46
45:RM:54:SER:OG	45:RM:64:ARG:HD3	2.15	0.46
45:SC:60:LYS:HE2	45:TC:283:HIS:CD2	2.51	0.46
45:SE:260:VAL:HG23	46:SF:397:TRP:HZ2	1.80	0.46
45:SG:187:SER:O	45:SG:191:THR:HG23	2.16	0.46
45:SI:115:VAL:HG22	45:SI:119:LEU:HD23	1.98	0.46
46:SL:132:GLY:HA3	46:SL:163:ILE:HG13	1.97	0.46
45:SM:384:ILE:HG23	45:SM:388:PHE:HE1	1.81	0.46
46:SN:288:GLU:O	46:SN:291:GLN:HG3	2.16	0.46
46:SN:293:MET:HE3	46:SN:365:VAL:CG1	2.46	0.46
45:TC:272:TYR:HD2	45:TC:275:ILE:HD11	1.81	0.46
46:TF:51:TYR:O	46:TF:62:ARG:NH2	2.46	0.46
46:TF:293:MET:HE1	46:TF:315:ALA:CB	2.45	0.46
45:TI:231:ILE:O	45:TI:235:ILE:HG12	2.16	0.46
45:TK:346:TRP:H	45:TK:346:TRP:CD1	2.33	0.46
46:TL:347:ASN:ND2	45:TM:176:GLN:O	2.42	0.46
46:TN:288:GLU:O	46:TN:291:GLN:HG3	2.16	0.46
46:UD:117:LEU:HA	46:UD:120:VAL:HG12	1.97	0.46
46:UD:252:LYS:HZ1	47:UE:501:GTP:PG	2.36	0.46
46:UD:341:PHE:HD2	46:UD:348:ASN:HD21	1.63	0.46
45:UE:203:MET:HE3	45:UE:205:ASP:HB2	1.96	0.46
45:UE:204:LEU:HD12	45:UE:231:ILE:HD12	1.98	0.46
46:UF:2:ARG:HB2	46:UF:131:GLN:CD	2.41	0.46
46:UF:287:PRO:HG3	46:UF:329:GLN:NE2	2.31	0.46
45:UG:115:VAL:HG11	45:UG:152:LEU:HD23	1.98	0.46
45:UG:263:PRO:HG2	45:UG:264:ARG:HH12	1.81	0.46
46:UJ:372:THR:HA	46:UJ:422:TYR:CE2	2.40	0.46
45:UK:297:GLU:HG2	45:UK:298:PRO:HD2	1.97	0.46
46:UL:58:ARG:NH2	46:VL:281:TYR:OH	2.48	0.46
46:UN:68:LEU:HG	46:UN:96:GLY:H	1.80	0.46
46:UN:119:VAL:HG23	46:UN:122:LYS:NZ	2.30	0.46
46:UN:378:PHE:HA	46:UN:381:VAL:HG22	1.98	0.46
45:VA:226:ASN:HA	45:VA:229:ARG:HD2	1.97	0.46
45:VC:56:THR:HG23	45:VC:58:ALA:H	1.81	0.46
46:VF:3:GLU:HG2	46:VF:49:VAL:HA	1.98	0.46
46:VF:178:THR:HB	46:VF:181:GLU:HG2	1.98	0.46
46:VF:320:ARG:NH2	46:VF:321:MET:HA	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VG:251:ASP:HB3	45:VG:254:GLU:OE1	2.16	0.46
45:VG:387:VAL:O	45:VG:390:ARG:HG2	2.15	0.46
46:VH:232:ALA:HB1	46:VH:268:ILE:HD12	1.98	0.46
46:VH:286:VAL:HG21	46:VH:325:GLU:CG	2.46	0.46
46:VN:178:THR:HB	46:VN:181:GLU:OE2	2.15	0.46
46:VN:415:MET:O	46:VN:419:VAL:HG23	2.16	0.46
45:WC:259:LEU:HD13	45:WC:268:MET:HE1	1.97	0.46
46:WD:9:GLY:HA2	46:WD:66:MET:O	2.16	0.46
46:WD:317:PHE:HE1	46:WD:326:VAL:HG13	1.80	0.46
46:WF:19:LYS:NZ	46:WF:227:HIS:HA	2.26	0.46
46:WF:201:VAL:HG23	46:WF:301:CYS:SG	2.56	0.46
46:WH:67:ASP:O	46:WH:92:PHE:HA	2.16	0.46
46:WL:286:VAL:HA	46:WL:289:LEU:HB2	1.98	0.46
45:CE:230:LEU:O	45:CE:234:VAL:HG23	2.15	0.46
45:DC:215:ARG:NH2	45:DC:299:ALA:O	2.49	0.46
1:0A:134:LYS:O	46:AB:320:ARG:NH2	2.48	0.46
3:0C:88:GLU:OE1	3:0C:89:PHE:N	2.48	0.46
4:0D:119:LYS:HE2	25:1R:482:THR:HG22	1.97	0.46
6:0F:204:PHE:O	45:FC:221:ARG:HB2	2.16	0.46
13:0U:128:MET:HE1	13:0U:144:PRO:HB3	1.97	0.46
13:0U:340:SER:O	13:0U:364:GLU:HG2	2.16	0.46
13:0U:377:ILE:O	13:0U:388:ALA:HA	2.15	0.46
15:0X:56:LYS:HE2	15:0X:56:LYS:HA	1.96	0.46
16:1B:59:PHE:C	16:1B:60:LEU:HD12	2.40	0.46
16:1B:182:GLU:O	16:1B:186:ILE:HD12	2.15	0.46
16:1B:368:THR:HG23	16:1B:371:GLU:H	1.81	0.46
3:1C:98:GLN:O	3:1C:102:ARG:HG2	2.16	0.46
8:1H:352:GLU:HG2	45:GA:58:ALA:HB2	1.97	0.46
19:1J:248:LYS:NZ	19:1J:249:ASN:O	2.49	0.46
21:1L:396:ASN:OD1	21:1L:397:LEU:N	2.48	0.46
21:1L:658:ARG:HB2	46:BF:45:GLU:OE2	2.16	0.46
21:1L:743:ILE:HA	21:1L:746:ILE:HG22	1.96	0.46
21:1L:861:ARG:CZ	21:1L:862:LEU:HD22	2.45	0.46
16:2B:180:GLU:C	26:2W:272:LYS:NZ	2.74	0.46
16:2B:183:GLU:HG3	26:2W:271:GLN:NE2	2.26	0.46
27:2C:132:GLU:HG2	27:2C:139:TYR:CZ	2.51	0.46
4:2D:129:GLN:O	4:2D:133:THR:HG23	2.16	0.46
28:2F:77:THR:OG1	46:HF:291:GLN:OE1	2.34	0.46
28:2F:93:GLU:OE1	45:HE:299:ALA:N	2.49	0.46
20:2K:361:TRP:O	20:2K:364:GLU:HG3	2.16	0.46
20:2K:390:VAL:HA	20:2K:393:GLU:OE2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:2N:98:GLU:CD	9:2N:98:GLU:H	2.24	0.46
23:2O:145:LYS:HG3	45:VK:372:MET:SD	2.56	0.46
23:2O:285:GLU:HA	23:2O:288:LYS:CG	2.45	0.46
23:2O:428:ARG:HD3	23:2O:428:ARG:N	2.31	0.46
12:2T:132:PRO:HD3	45:MG:123:ARG:NH1	2.30	0.46
13:2U:280:ALA:O	13:2U:298:SER:N	2.46	0.46
16:3B:19:HIS:CE1	16:3B:132:ARG:HH21	2.34	0.46
16:3B:127:SER:HB3	16:3B:143:VAL:HG23	1.98	0.46
21:3L:53:PHE:CG	21:3L:65:LYS:HD2	2.51	0.46
11:3S:17:LYS:HE3	46:WN:92:PHE:CE2	2.41	0.46
12:3T:67:PHE:HB2	12:3T:172:ILE:HG23	1.96	0.46
13:3U:449:ARG:HH12	13:3U:472:SER:HB3	1.80	0.46
14:3V:73:ARG:HA	14:3V:73:ARG:HD2	1.86	0.46
33:4F:8:TYR:CE2	45:GI:84:ARG:HB2	2.51	0.46
33:4F:222:HIS:CE1	46:HN:44:LEU:HB2	2.50	0.46
35:4S:112:THR:C	35:4S:117:LYS:HE2	2.40	0.46
15:4X:57:LYS:HA	15:4X:57:LYS:HE2	1.98	0.46
36:5A:104:PRO:HB3	45:KA:390:ARG:HD3	1.97	0.46
34:5R:549:MET:O	34:5R:553:ILE:HG12	2.16	0.46
34:5R:557:ASP:OD2	34:5R:561:ARG:N	2.44	0.46
35:5S:78:VAL:HG13	35:5S:79:ASN:H	1.81	0.46
39:6F:45:LYS:HG3	39:6F:46:PHE:CD2	2.51	0.46
39:6F:123:TYR:HA	39:6F:126:LYS:HB3	1.98	0.46
10:6Q:71:ILE:HG23	10:6Q:73:LEU:HD13	1.97	0.46
34:6R:227:GLU:HA	34:6R:230:GLU:HG3	1.98	0.46
34:7R:12:LEU:HD12	34:7R:15:HIS:CD2	2.51	0.46
45:AA:172:TYR:HB2	45:AA:203:MET:HE1	1.97	0.46
45:AC:141:VAL:HG12	45:AC:171:ILE:O	2.16	0.46
45:AC:176:GLN:NE2	45:AC:177:VAL:HG23	2.31	0.46
46:AD:103:LYS:HB2	46:AD:401:GLU:OE1	2.16	0.46
46:AF:65:LEU:HD13	46:AF:90:PHE:HE1	1.81	0.46
45:AG:265:ILE:HG22	45:AG:380:ASN:HD21	1.81	0.46
46:AH:11:GLN:HB3	46:AH:72:THR:HG21	1.97	0.46
46:AH:203:ASP:O	46:AH:207:LEU:HG	2.15	0.46
46:AJ:226:ASN:HD21	49:AJ:501:GDP:HN1	1.64	0.46
46:BH:20:PHE:HA	46:BH:230:SER:HB2	1.97	0.46
45:BI:325:PRO:HA	45:BI:328:VAL:HG12	1.98	0.46
45:BI:402:ARG:NH2	45:BI:415:GLU:OE2	2.48	0.46
46:BL:342:VAL:HG13	46:BL:345:ILE:HG22	1.97	0.46
46:CB:258:ILE:HG23	46:CB:263:LEU:O	2.16	0.46
45:CC:18:ASN:O	45:CC:22:GLU:OE1	2.34	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CC:56:THR:OG1	45:DC:282:TYR:O	2.31	0.46
45:CC:356:ASN:OD1	45:CC:357:TYR:N	2.49	0.46
46:CD:205:GLU:OE2	46:CD:302:ALA:HB2	2.16	0.46
46:CF:182:PRO:HD2	46:CF:388:MET:HE1	1.98	0.46
46:CJ:260:PHE:HB2	46:CJ:263:LEU:HD13	1.98	0.46
46:CL:65:LEU:HD22	46:CL:90:PHE:CE1	2.51	0.46
46:CL:173:PRO:HG3	46:CL:384:GLN:NE2	2.31	0.46
45:CM:205:ASP:HB2	45:CM:304:LYS:HZ3	1.80	0.46
46:CN:97:ALA:HB3	46:CN:143:THR:HB	1.97	0.46
46:DF:99:ASN:ND2	46:DF:178:THR:HG21	2.31	0.46
45:DG:261:PRO:HA	46:DH:394:PHE:CD1	2.51	0.46
45:DI:21:TRP:CZ3	45:DI:63:PRO:HB3	2.51	0.46
45:DI:254:GLU:HG2	46:DJ:98:GLY:HA2	1.97	0.46
46:DL:141:GLY:HA3	49:DL:501:GDP:PB	2.56	0.46
45:DM:141:VAL:HG12	45:DM:187:SER:HA	1.96	0.46
46:EB:312:THR:HG22	46:EB:370:ASN:HB3	1.97	0.46
46:ED:204:ASN:OD1	49:ED:501:GDP:O2'	2.27	0.46
46:EH:55:THR:HG23	46:FH:283:ALA:HA	1.97	0.46
45:EI:171:ILE:HG13	45:EI:204:LEU:HB2	1.98	0.46
46:EJ:207:LEU:HD13	46:EJ:225:LEU:HB3	1.97	0.46
46:EJ:251:ARG:HD3	45:EK:105:ARG:NH1	2.30	0.46
46:FD:91:VAL:HG11	46:FD:116:VAL:HB	1.98	0.46
45:FE:226:ASN:ND2	45:FE:367:ASP:OD2	2.49	0.46
45:FG:174:SER:HB3	45:FG:207:GLU:CD	2.41	0.46
45:FI:384:ILE:O	45:FI:387:VAL:HG22	2.15	0.46
46:FJ:113:ILE:HG21	46:FJ:154:LYS:HZ3	1.81	0.46
45:FK:195:LEU:HD21	45:FK:264:ARG:HD2	1.97	0.46
45:FK:387:VAL:HA	45:FK:390:ARG:HG2	1.98	0.46
46:FL:66:MET:SD	46:FL:147:MET:HE3	2.56	0.46
45:GG:107:HIS:ND1	45:GG:107:HIS:O	2.49	0.46
46:GH:86:ARG:HG3	46:GH:88:ASP:H	1.81	0.46
45:HA:203:MET:SD	45:HA:267:PHE:HB3	2.56	0.46
45:HC:251:ASP:HB3	45:HC:254:GLU:HG2	1.98	0.46
46:HF:273:LEU:H	46:HF:292:GLN:NE2	2.14	0.46
45:HG:72:PRO:HD2	46:HH:2:ARG:HH21	1.81	0.46
45:HI:268:MET:HG3	45:HI:380:ASN:HB2	1.97	0.46
45:HK:105:ARG:HG2	45:HK:411:GLU:OE1	2.16	0.46
46:HL:12:CYS:O	46:HL:16:ILE:HG12	2.16	0.46
45:HM:186:ASN:OD1	45:HM:187:SER:N	2.49	0.46
45:HM:217:LEU:HD21	45:HM:368:LEU:HD22	1.97	0.46
46:IL:257:LEU:HD23	46:IL:266:PHE:CE1	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JE:181:VAL:HG23	46:JF:350:LYS:HE2	1.97	0.46
45:JK:68:LEU:HD13	45:JK:93:ILE:HB	1.96	0.46
45:KA:133:GLN:HB3	45:KA:252:ILE:HD11	1.98	0.46
45:KC:4:VAL:HG12	45:KC:133:GLN:HB2	1.98	0.46
45:KC:426:ALA:HA	45:KC:429:GLU:OE2	2.16	0.46
45:KI:56:THR:HG23	45:KI:58:ALA:H	1.81	0.46
45:KK:17:GLY:HA2	45:KK:20:CYS:SG	2.56	0.46
46:LD:381:VAL:HG13	46:LD:415:MET:HE1	1.96	0.46
45:LI:305:CYS:SG	45:LI:306:ASP:N	2.89	0.46
45:LK:224:TYR:HE2	46:LL:246:LEU:HD11	1.80	0.46
46:LL:156:ARG:HG3	46:LL:195:ASN:HB3	1.98	0.46
46:LL:183:TYR:CZ	46:LL:388:MET:HE3	2.50	0.46
45:LM:329:ASN:HA	45:LM:332:ILE:HG12	1.98	0.46
45:LM:345:ASP:OD2	45:LM:346:TRP:N	2.49	0.46
46:MB:21:TRP:HA	46:MB:24:ILE:HG22	1.98	0.46
46:MD:391:ARG:HA	46:MD:391:ARG:HD2	1.79	0.46
45:ME:141:VAL:HG12	45:ME:171:ILE:O	2.16	0.46
45:MI:172:TYR:CG	45:MI:203:MET:HE1	2.51	0.46
46:MJ:187:LEU:HD11	46:MJ:408:PHE:CE1	2.50	0.46
45:MK:6:SER:OG	45:MK:8:HIS:NE2	2.48	0.46
45:NA:96:LYS:NZ	46:NB:129:CYS:SG	2.71	0.46
45:NA:167:LEU:HG	45:NA:200:VAL:HB	1.97	0.46
46:NB:119:VAL:HA	46:NB:122:LYS:CE	2.43	0.46
46:NB:119:VAL:O	46:NB:123:GLU:HG2	2.16	0.46
46:ND:371:SER:O	46:ND:422:TYR:OH	2.34	0.46
45:NE:242:LEU:HD11	45:NE:252:ILE:HD11	1.98	0.46
45:NE:268:MET:HG3	45:NE:380:ASN:HB2	1.98	0.46
45:NE:276:ILE:HG13	45:NE:283:HIS:CE1	2.50	0.46
46:NH:187:LEU:HD11	46:NH:408:PHE:HE2	1.81	0.46
46:NH:221:THR:O	46:NH:225:LEU:HD12	2.16	0.46
46:NL:200:MET:SD	46:NL:268:ILE:HG21	2.56	0.46
46:NN:391:ARG:HA	46:NN:391:ARG:HD2	1.82	0.46
45:OA:227:LEU:O	45:OA:230:LEU:HG	2.16	0.46
46:OD:200:MET:HE3	46:OD:200:MET:HA	1.98	0.46
45:OE:68:LEU:HD13	45:OE:93:ILE:HB	1.97	0.46
45:OG:257:THR:HA	46:OJ:397:TRP:CH2	2.51	0.46
45:OG:307:PRO:HB3	45:OG:312:TYR:HE1	1.81	0.46
46:OH:310:TYR:HE2	46:OH:367:PHE:HZ	1.64	0.46
45:OI:154:LEU:HD12	45:OI:194:LEU:HD11	1.98	0.46
45:OI:211:ASP:OD1	45:OI:214:ARG:NH2	2.43	0.46
46:OJ:201:VAL:HG23	46:OJ:301:CYS:SG	2.56	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OK:88:HIS:CE1	45:PK:280:LYS:HE2	2.51	0.46
45:OK:140:SER:OG	47:OK:501:GTP:O2B	2.33	0.46
45:OK:326:LYS:HG3	46:ON:208:TYR:CD1	2.51	0.46
46:OL:218:THR:HG23	46:OL:276:ARG:NH2	2.30	0.46
46:OL:409:THR:O	46:OL:412:GLU:HG3	2.15	0.46
46:PB:232:ALA:HB1	46:PB:268:ILE:HD12	1.98	0.46
45:PC:60:LYS:NZ	45:PC:86:LEU:HA	2.30	0.46
46:PD:68:LEU:HG	46:PD:96:GLY:H	1.80	0.46
46:PF:170:VAL:HG23	46:PF:377:MET:HE1	1.98	0.46
45:PI:98:ASP:OD1	45:PI:99:ALA:N	2.49	0.46
45:PK:183:GLU:N	45:PK:184:PRO:HD2	2.31	0.46
45:PM:319:TYR:HB3	45:PM:323:VAL:HG11	1.97	0.46
45:PM:407:TRP:CH2	46:PN:258:ILE:HB	2.51	0.46
45:QA:319:TYR:HB3	45:QA:323:VAL:HG11	1.98	0.46
45:QA:331:SER:O	45:QA:335:ILE:HG12	2.16	0.46
46:QB:420:SER:O	46:QB:423:GLN:HG3	2.16	0.46
45:QC:182:VAL:O	45:QC:182:VAL:HG12	2.15	0.46
46:QF:318:ARG:HH11	46:QF:358:PRO:HG3	1.81	0.46
45:QG:1:MET:HB3	45:QG:2:ARG:HH12	1.81	0.46
45:QG:272:TYR:O	45:QG:300:ASN:ND2	2.47	0.46
45:QG:324:VAL:HG11	45:QG:326:LYS:HE2	1.98	0.46
45:QI:311:LYS:NZ	45:QI:342:GLN:HB3	2.30	0.46
45:QI:384:ILE:O	45:QI:387:VAL:HG22	2.15	0.46
46:QJ:304:ASP:CG	46:QJ:307:HIS:HD1	2.24	0.46
46:QL:317:PHE:CD1	46:QL:365:VAL:HG22	2.51	0.46
46:RB:50:TYR:OH	46:RB:237:THR:OG1	2.30	0.46
45:RC:359:PRO:HB2	45:RC:370:LYS:HZ2	1.80	0.46
46:RJ:131:GLN:HE22	46:RJ:250:LEU:HB2	1.81	0.46
45:RK:269:LEU:HD23	45:RK:379:SER:O	2.16	0.46
46:RN:58:ARG:NH2	46:SN:281:TYR:OH	2.48	0.46
46:SB:15:GLN:HG2	49:SB:501:GDP:O6	2.16	0.46
46:SB:121:ARG:NH2	46:TB:336:LYS:HE3	2.30	0.46
46:SJ:139:LEU:HD22	46:SJ:170:VAL:HG12	1.97	0.46
45:SK:241:SER:OG	45:SK:250:VAL:O	2.20	0.46
46:SL:32:PRO:HA	46:SL:84:LEU:HD11	1.97	0.46
46:SL:282:ARG:HA	46:SL:282:ARG:NH1	2.31	0.46
46:SN:31:ASP:OD2	46:SN:37:HIS:ND1	2.49	0.46
46:TB:207:LEU:HB3	46:TB:225:LEU:HD22	1.98	0.46
46:TB:241:ARG:HH12	46:TB:318:ARG:HH12	1.64	0.46
46:TD:21:TRP:CZ3	46:TD:61:PRO:HB3	2.51	0.46
45:TE:137:VAL:HG23	45:TE:168:GLY:HA2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TE:150:GLY:O	45:TE:154:LEU:HG	2.15	0.46
46:TH:269:GLY:C	46:TH:293:MET:HE1	2.41	0.46
45:TK:68:LEU:HD13	45:TK:93:ILE:HB	1.98	0.46
46:TL:256:ASN:HD22	46:TL:350:LYS:NZ	2.13	0.46
45:TM:425:LEU:HD23	45:TM:425:LEU:HA	1.80	0.46
46:UB:139:LEU:HD13	46:UB:168:SER:HB3	1.97	0.46
46:UB:190:HIS:NE2	46:UB:411:ALA:O	2.40	0.46
46:UD:6:HIS:HD2	46:UD:21:TRP:HE1	1.64	0.46
46:UD:304:ASP:HB3	46:UD:307:HIS:ND1	2.31	0.46
45:UE:384:ILE:O	45:UE:387:VAL:HG22	2.16	0.46
46:UF:54:ALA:HB3	46:UF:58:ARG:HG2	1.98	0.46
46:UF:64:ILE:HD13	46:UF:119:VAL:HG13	1.98	0.46
46:UH:99:ASN:HA	46:UH:142:GLY:H	1.80	0.46
46:UH:287:PRO:HA	46:UH:290:THR:HG22	1.98	0.46
46:UH:363:MET:HE3	46:UH:364:ALA:N	2.30	0.46
46:UL:409:THR:O	46:UL:412:GLU:HG3	2.16	0.46
45:UM:78:VAL:HA	45:UM:84:ARG:NH2	2.31	0.46
45:VA:260:VAL:HG21	45:VA:266:HIS:HB3	1.96	0.46
46:VB:165:GLU:OE1	46:VB:198:GLU:HB2	2.15	0.46
46:VD:237:THR:HG23	46:VD:241:ARG:HH21	1.80	0.46
46:VD:350:LYS:HD3	46:VD:351:SER:N	2.30	0.46
46:VF:178:THR:HG22	46:VF:180:VAL:H	1.80	0.46
46:VF:309:ARG:HG2	46:VF:340:TYR:HA	1.98	0.46
45:VI:332:ILE:O	45:VI:336:LYS:HG2	2.15	0.46
46:VJ:94:GLN:OE1	46:VJ:94:GLN:HA	2.16	0.46
46:VJ:190:HIS:CD2	46:VJ:411:ALA:HA	2.51	0.46
46:VL:3:GLU:H	46:VL:3:GLU:CD	2.23	0.46
46:VN:16:ILE:HD12	46:VN:229:VAL:HG11	1.98	0.46
46:VN:388:MET:N	46:VN:388:MET:HE2	2.31	0.46
45:WA:340:THR:HG23	45:WA:341:ILE:HG13	1.96	0.46
45:WC:98:ASP:N	46:WD:2:ARG:HH21	2.12	0.46
45:WE:90:GLU:OE2	45:WE:121:ARG:NH1	2.49	0.46
46:WF:73:MET:CE	46:WF:92:PHE:HB3	2.46	0.46
45:WK:303:ALA:O	45:WK:305:CYS:N	2.46	0.46
45:DC:20:CYS:HA	45:DC:232:ALA:HB1	1.98	0.46
45:DC:21:TRP:CZ2	45:DC:65:ALA:HB2	2.50	0.46
45:DC:311:LYS:H	45:DC:382:THR:HB	1.80	0.46
45:DC:322:ASP:OD1	45:DC:373:ARG:NH1	2.45	0.46
2:0B:320:LEU:HD23	2:0B:322:ARG:NH1	2.31	0.46
7:0G:52:LYS:HG3	7:0G:53:ASN:CG	2.41	0.46
8:0H:437:ARG:HH11	17:1F:43:GLU:HG3	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:0S:252:TYR:HD1	11:0S:256:LEU:HD21	1.80	0.46
13:0U:307:THR:C	13:0U:309:LYS:H	2.24	0.46
1:1A:91:ASN:ND2	1:1A:95:LEU:O	2.49	0.46
16:1B:314:PRO:O	16:1B:316:PRO:HD3	2.16	0.46
3:1C:88:GLU:OE1	3:1C:89:PHE:N	2.49	0.46
4:1D:15:THR:O	46:CF:46:ARG:NH1	2.48	0.46
5:1E:93:ASN:OD1	5:1E:96:ARG:HG2	2.16	0.46
17:1F:137:PHE:CE1	17:1F:139:PRO:HB3	2.51	0.46
8:1H:261:ARG:O	8:1H:264:LYS:HG2	2.15	0.46
19:1J:80:LYS:HG2	45:IC:373:ARG:NH2	2.30	0.46
19:1J:186:ARG:HD2	19:1J:188:TYR:HE2	1.81	0.46
21:1L:179:THR:HG21	45:CI:365:GLY:HA3	1.98	0.46
21:1L:703:ILE:O	21:1L:706:THR:OG1	2.26	0.46
22:1M:63:ILE:HD11	22:1M:301:GLY:HA2	1.97	0.46
22:1M:181:VAL:HA	22:1M:184:GLU:OE2	2.16	0.46
9:1N:111:ILE:HB	9:1N:114:THR:HG23	1.98	0.46
24:1P:203:GLU:OE1	24:1P:207:LYS:NZ	2.49	0.46
24:1P:230:LYS:HZ3	24:1P:234:ILE:HD12	1.80	0.46
25:1R:142:MET:HE3	46:BF:218:THR:OG1	2.15	0.46
11:1S:87:ALA:H	13:1U:309:LYS:HZ1	1.62	0.46
22:2M:9:ILE:O	22:2M:74:VAL:HG12	2.16	0.46
9:2N:163:ALA:HB3	9:2N:167:ARG:N	2.31	0.46
25:2R:306:LYS:HD2	25:2R:320:ASN:HB3	1.97	0.46
25:2R:311:ASN:HB3	25:2R:313:PRO:HD2	1.98	0.46
11:2S:212:ILE:HG13	11:2S:251:TYR:HD2	1.80	0.46
13:2U:371:MET:HA	13:2U:371:MET:HE2	1.97	0.46
13:2U:462:ASP:O	13:2U:478:LEU:HB3	2.16	0.46
1:3A:35:TYR:HE2	1:3A:41:THR:HG23	1.81	0.46
16:3B:253:LYS:NZ	16:3B:268:ILE:HG21	2.31	0.46
27:3C:64:PHE:CE2	27:3C:66:LEU:HD21	2.51	0.46
27:3C:107:VAL:HA	27:3C:110:VAL:HG22	1.98	0.46
21:3L:82:ILE:O	21:3L:86:ILE:HG12	2.16	0.46
21:3L:132:GLU:HG3	21:3L:133:SER:N	2.31	0.46
23:3O:352:ARG:HB3	23:3O:356:ARG:HH21	1.80	0.46
10:3Q:93:VAL:HA	10:3Q:151:THR:HA	1.98	0.46
25:3R:116:GLU:OE2	25:3R:119:ARG:HA	2.16	0.46
13:3U:60:ILE:HD13	13:3U:107:SER:HA	1.98	0.46
13:3U:190:GLY:H	13:3U:227:PHE:HE1	1.63	0.46
13:3U:419:ARG:HH22	13:3U:442:LYS:HG2	1.80	0.46
14:3V:142:ILE:HD11	45:LC:402:ARG:HE	1.80	0.46
27:4C:141:ILE:O	27:4C:146:ARG:NH1	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:4F:119:VAL:HG22	46:IL:359:LYS:HZ1	1.78	0.46
36:5C:28:SER:HB3	36:5C:29:GLN:OE1	2.16	0.46
37:5G:197:LEU:HD12	45:LK:393:HIS:CG	2.51	0.46
10:5Q:7:GLN:O	10:5Q:7:GLN:HG2	2.16	0.46
10:5Q:35:LYS:HD3	10:5Q:37:ILE:HD11	1.98	0.46
34:5R:465:ILE:HB	46:FJ:276:ARG:CZ	2.45	0.46
35:5S:111:GLU:HG2	35:5S:116:TYR:CB	2.46	0.46
40:6G:214:LEU:HD11	45:VC:333:ALA:HB3	1.97	0.46
34:6R:520:PRO:C	34:6R:522:VAL:H	2.23	0.46
34:7R:426:PHE:HA	34:7R:508:ALA:HA	1.96	0.46
45:AA:209:ILE:HG12	45:AA:302:MET:CE	2.46	0.46
46:AD:1:MET:O	46:AD:2:ARG:HG2	2.15	0.46
46:AD:52:ASN:OD1	46:AD:62:ARG:NH2	2.49	0.46
45:AE:89:PRO:HG2	45:BE:280:LYS:HB3	1.98	0.46
45:AK:231:ILE:O	45:AK:235:ILE:HG12	2.16	0.46
45:BA:195:LEU:HD21	45:BA:264:ARG:HH21	1.80	0.46
45:BC:304:LYS:O	45:BC:304:LYS:HD3	2.16	0.46
46:BL:232:ALA:HB1	46:BL:268:ILE:HD12	1.97	0.46
46:BN:308:GLY:HA2	46:BN:426:GLN:HE22	1.81	0.46
45:CA:171:ILE:HG23	45:CA:204:LEU:O	2.16	0.46
46:CD:201:VAL:HG21	46:CD:374:ILE:HD11	1.98	0.46
46:CH:87:PRO:HA	46:CH:90:PHE:CD2	2.43	0.46
46:CH:201:VAL:HG23	46:CH:301:CYS:SG	2.56	0.46
45:CK:154:LEU:HD12	45:CK:155:GLU:HG3	1.98	0.46
45:CK:296:PHE:HD1	45:CK:341:ILE:HD13	1.81	0.46
46:CL:173:PRO:HD2	46:CL:380:ARG:NH2	2.31	0.46
45:DA:203:MET:HG3	45:DA:384:ILE:HD11	1.98	0.46
46:DB:77:ARG:NH2	46:DB:83:GLN:OE1	2.48	0.46
46:DD:318:ARG:HH11	46:DD:358:PRO:HG3	1.81	0.46
45:DG:387:VAL:N	45:DG:390:ARG:HH21	2.14	0.46
45:DK:39:ASP:N	45:DK:39:ASP:OD1	2.48	0.46
46:DN:273:LEU:H	46:DN:292:GLN:NE2	2.07	0.46
46:EF:403:MET:HE1	46:EF:408:PHE:CE1	2.51	0.46
45:EG:19:ALA:O	45:EG:22:GLU:HG2	2.16	0.46
45:EG:209:ILE:HD11	45:EG:227:LEU:HD23	1.98	0.46
45:EG:346:TRP:CD1	46:EH:391:ARG:HG3	2.51	0.46
46:EH:20:PHE:CG	46:EH:233:MET:HE1	2.51	0.46
46:EH:65:LEU:HD22	46:EH:90:PHE:CE1	2.51	0.46
45:EK:239:THR:HG23	45:EK:243:ARG:HH21	1.81	0.46
46:EL:119:VAL:HA	46:EL:122:LYS:HD3	1.97	0.46
45:EM:141:VAL:HG12	45:EM:171:ILE:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EM:274:PRO:HG3	45:EM:286:LEU:HD23	1.97	0.46
45:FA:208:ALA:O	45:FA:212:ILE:HG12	2.16	0.46
45:FA:221:ARG:HH11	46:FB:325:GLU:H	1.64	0.46
46:FB:52:ASN:CG	46:FB:62:ARG:HE	2.24	0.46
46:FF:190:HIS:CD2	46:FF:411:ALA:HA	2.51	0.46
45:FK:7:ILE:HB	45:FK:137:VAL:HG12	1.98	0.46
45:FK:84:ARG:HG3	45:FK:84:ARG:HH11	1.80	0.46
45:FK:416:GLY:O	45:FK:419:SER:OG	2.28	0.46
46:FL:216:LYS:HB3	46:FL:216:LYS:HE2	1.75	0.46
46:FL:263:LEU:HD23	46:FL:422:TYR:CE2	2.51	0.46
45:GA:19:ALA:HA	45:GA:22:GLU:OE1	2.16	0.46
45:GC:377:MET:HE1	45:GC:379:SER:HB3	1.97	0.46
45:GE:19:ALA:HA	45:GE:22:GLU:OE1	2.16	0.46
45:GE:55:GLU:O	45:HE:285:GLN:NE2	2.39	0.46
45:GG:88:HIS:H	45:GG:91:GLN:NE2	2.14	0.46
46:GH:208:TYR:CE2	46:GH:225:LEU:HD21	2.51	0.46
45:GK:19:ALA:HA	45:GK:22:GLU:OE1	2.15	0.46
45:GM:206:ASN:OD1	47:GM:501:GTP:N2	2.49	0.46
46:GN:156:ARG:NH1	46:GN:162:ARG:O	2.48	0.46
46:GN:238:CYS:HB2	46:GN:318:ARG:NH1	2.30	0.46
46:GN:375:GLN:NE2	46:GN:422:TYR:HB3	2.31	0.46
45:HA:356:ASN:OD1	45:HA:358:GLN:N	2.44	0.46
46:HD:302:ALA:HB3	46:HD:377:MET:HE1	1.98	0.46
46:HF:262:ARG:NH1	46:HF:421:GLU:OE1	2.48	0.46
46:HL:9:GLY:HA3	46:HL:66:MET:SD	2.55	0.46
46:HL:294:PHE:CE2	46:HL:333:VAL:HG11	2.51	0.46
45:HM:14:ILE:HD11	45:HM:69:ASP:HB2	1.98	0.46
45:HM:55:GLU:HG3	45:HM:57:GLY:H	1.80	0.46
46:HN:304:ASP:HB3	46:HN:307:HIS:ND1	2.31	0.46
45:IA:301:MET:HE3	45:IA:307:PRO:HD3	1.97	0.46
45:IE:141:VAL:HG11	45:IE:172:TYR:CD1	2.51	0.46
46:IF:217:LEU:HD11	46:IF:220:PRO:HB3	1.97	0.46
45:IG:21:TRP:CZ2	45:IG:65:ALA:HB2	2.51	0.46
46:IJ:117:LEU:HA	46:IJ:120:VAL:HG12	1.98	0.46
46:IJ:201:VAL:HG23	46:IJ:301:CYS:SG	2.56	0.46
45:IK:205:ASP:OD1	45:IK:303:ALA:HA	2.15	0.46
45:JA:151:SER:HB2	45:JA:193:SER:OG	2.16	0.46
45:JA:226:ASN:ND2	45:JA:367:ASP:OD2	2.49	0.46
45:JA:297:GLU:HB2	45:JA:300:ASN:OD1	2.15	0.46
46:JB:317:PHE:CD2	46:JB:365:VAL:HG22	2.51	0.46
46:JH:141:GLY:HA3	49:JH:501:GDP:O3A	2.17	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JI:108:TYR:HA	45:JI:112:LYS:NZ	2.31	0.46
45:JI:387:VAL:HG12	45:JI:390:ARG:NH1	2.32	0.46
45:JK:185:TYR:HD2	45:JK:408:TYR:HE1	1.64	0.46
46:JL:208:TYR:CD2	46:JL:225:LEU:HD11	2.51	0.46
45:KA:75:ILE:HD13	45:KA:94:SER:HB3	1.96	0.46
46:KJ:106:TYR:HE2	46:KJ:403:MET:HB3	1.81	0.46
46:KJ:207:LEU:HB3	46:KJ:225:LEU:HD22	1.98	0.46
46:KJ:374:ILE:O	46:KJ:377:MET:HG3	2.16	0.46
45:LC:311:LYS:N	45:LC:382:THR:OG1	2.46	0.46
45:LE:35:GLN:OE1	45:LE:35:GLN:N	2.49	0.46
46:LF:290:THR:HA	46:LF:293:MET:HE2	1.97	0.46
46:MF:217:LEU:HD11	46:MF:220:PRO:HB3	1.97	0.46
46:MH:391:ARG:HA	46:MH:391:ARG:HD2	1.83	0.46
45:NA:316:SER:HB3	45:NA:352:LYS:HB3	1.97	0.46
46:ND:101:TRP:HB3	46:ND:398:TYR:HE1	1.80	0.46
46:NF:122:LYS:HE3	46:NF:125:GLU:OE2	2.15	0.46
46:NF:316:LEU:HD13	46:NF:352:SER:HB3	1.97	0.46
45:NK:205:ASP:OD1	45:NK:303:ALA:HA	2.15	0.46
46:NL:374:ILE:HG12	46:NL:422:TYR:OH	2.16	0.46
45:NM:293:ASN:O	45:NM:297:GLU:HG3	2.15	0.46
46:NN:379:LYS:O	46:NN:383:GLU:OE1	2.34	0.46
45:OA:302:MET:N	45:OA:302:MET:SD	2.89	0.46
46:OB:4:ILE:HG13	46:OB:132:GLY:O	2.15	0.46
46:OB:143:THR:O	46:OB:147:MET:HG2	2.15	0.46
46:OB:345:ILE:O	46:OB:345:ILE:HG13	2.16	0.46
46:OD:67:ASP:O	46:OD:92:PHE:HA	2.14	0.46
46:OD:286:VAL:CG2	46:OD:287:PRO:HD3	2.45	0.46
46:OD:383:GLU:HA	46:OD:386:THR:HG22	1.97	0.46
45:OE:123:ARG:HH21	45:PE:338:LYS:HE3	1.81	0.46
45:OE:387:VAL:HA	45:OE:390:ARG:HG2	1.98	0.46
46:OH:16:ILE:HD12	46:OH:229:VAL:HG11	1.99	0.46
46:OJ:417:ASP:O	46:OJ:421:GLU:HG3	2.15	0.46
45:OK:319:TYR:HB3	45:OK:323:VAL:HG21	1.97	0.46
46:OL:344:TRP:HB3	46:OL:430:ALA:HB2	1.97	0.46
46:ON:304:ASP:HB3	46:ON:307:HIS:ND1	2.31	0.46
46:ON:350:LYS:HD3	46:ON:351:SER:N	2.31	0.46
45:PC:21:TRP:CZ2	45:PC:65:ALA:HB2	2.51	0.46
45:PC:136:LEU:HD13	45:PC:167:LEU:HB2	1.97	0.46
46:PD:222:TYR:HA	46:PD:225:LEU:HD12	1.98	0.46
45:PE:395:PHE:HZ	45:PE:418:PHE:HB3	1.81	0.46
46:PF:44:LEU:O	46:PF:47:ILE:HG12	2.17	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PH:210:ILE:O	46:PH:214:THR:HG22	2.16	0.46
46:PL:6:HIS:NE2	46:PL:8:GLN:OE1	2.40	0.46
46:PL:240:LEU:HD12	46:PL:249:ASP:HB2	1.98	0.46
45:PM:404:PHE:CE1	46:PN:259:PRO:HA	2.51	0.46
46:PN:117:LEU:HA	46:PN:120:VAL:HG12	1.98	0.46
46:PN:120:VAL:HA	46:PN:123:GLU:CD	2.41	0.46
46:PN:406:MET:HE3	46:PN:410:GLU:HG2	1.98	0.46
45:QA:214:ARG:NH1	45:QA:215:ARG:HB3	2.31	0.46
45:QC:252:ILE:HD12	45:QC:252:ILE:H	1.80	0.46
46:QD:67:ASP:OD1	46:QD:68:LEU:N	2.45	0.46
45:QE:290:GLU:OE1	45:QE:290:GLU:N	2.49	0.46
45:QG:143:GLY:HA3	47:QG:501:GTP:O2B	2.16	0.46
46:QH:258:ILE:HG13	46:QH:258:ILE:O	2.16	0.46
45:QK:119:LEU:HG	45:QK:156:ARG:CZ	2.45	0.46
45:QK:401:LYS:HE3	45:QK:401:LYS:HB2	1.68	0.46
45:QM:259:LEU:HD11	45:QM:316:SER:HB3	1.98	0.46
46:QN:288:GLU:O	46:QN:291:GLN:HG3	2.16	0.46
46:QN:391:ARG:HA	46:QN:391:ARG:HD2	1.78	0.46
46:RB:28:HIS:CD2	46:RB:241:ARG:HH21	2.34	0.46
46:RB:117:LEU:CD1	46:RB:154:LYS:HD2	2.46	0.46
46:RB:209:ASP:OD1	46:RB:213:ARG:HD3	2.16	0.46
45:RC:261:PRO:HA	46:RD:394:PHE:CD1	2.51	0.46
46:RD:6:HIS:O	46:RD:63:ALA:HA	2.16	0.46
46:RF:133:PHE:HB2	46:RF:164:MET:HE1	1.98	0.46
45:RI:346:TRP:HH2	45:RI:435:VAL:HG13	1.82	0.46
45:RK:372:MET:SD	45:RK:372:MET:N	2.88	0.46
46:RL:421:GLU:HA	46:RL:424:GLN:OE1	2.16	0.46
45:SC:339:ARG:NH2	45:SC:340:THR:HA	2.31	0.46
46:SL:323:THR:HG21	45:SM:224:TYR:CE2	2.51	0.46
46:TB:269:GLY:HA2	46:TB:300:MET:HE1	1.98	0.46
45:TC:9:VAL:HG13	45:TC:139:ASN:HB3	1.98	0.46
45:TC:53:PHE:O	45:TC:64:ARG:NH2	2.48	0.46
45:TC:167:LEU:HG	45:TC:200:VAL:HB	1.98	0.46
45:TC:420:GLU:HA	45:TC:423:GLU:CD	2.41	0.46
46:TD:292:GLN:HG2	46:TD:298:ASN:ND2	2.31	0.46
45:TE:49:PHE:HD1	45:TE:53:PHE:HB2	1.81	0.46
45:TE:56:THR:HG23	45:TE:58:ALA:H	1.80	0.46
45:TE:226:ASN:O	45:TE:229:ARG:HG2	2.16	0.46
46:TF:175:VAL:HG22	46:TF:205:GLU:HB2	1.98	0.46
46:TF:345:ILE:HA	45:TG:398:MET:HE1	1.97	0.46
46:TJ:268:ILE:H	46:TJ:299:MET:HE1	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TK:387:VAL:HA	45:TK:390:ARG:HG2	1.97	0.46
46:TL:32:PRO:HB3	46:TL:81:PHE:CD1	2.51	0.46
45:UA:171:ILE:HG23	45:UA:204:LEU:O	2.16	0.46
45:UA:301:MET:HG3	45:UA:303:ALA:H	1.80	0.46
45:UC:141:VAL:HG12	45:UC:171:ILE:O	2.16	0.46
46:UD:342:VAL:HG13	46:UD:345:ILE:HG22	1.98	0.46
46:UF:158:GLU:C	46:UF:159:TYR:HD1	2.24	0.46
46:UH:139:LEU:HD22	46:UH:170:VAL:HG12	1.97	0.46
46:UH:167:PHE:CD2	46:UH:233:MET:HE3	2.51	0.46
46:UJ:11:GLN:O	46:UJ:15:GLN:HG2	2.16	0.46
46:UJ:395:LEU:O	46:UJ:399:THR:HG23	2.15	0.46
45:UK:175:PRO:HG3	45:UK:390:ARG:NH1	2.31	0.46
45:UK:331:SER:O	45:UK:335:ILE:HG12	2.16	0.46
46:UL:101:TRP:HB3	46:UL:398:TYR:HE1	1.81	0.46
45:VA:301:MET:HA	45:VA:301:MET:HE3	1.97	0.46
46:VB:258:ILE:HD12	46:VB:264:HIS:HB3	1.96	0.46
46:VH:362:LYS:HA	46:VH:362:LYS:HD3	1.74	0.46
46:VL:362:LYS:HB3	46:VL:363:MET:HE2	1.97	0.46
46:VN:228:LEU:HD12	46:VN:229:VAL:N	2.31	0.46
45:WA:107:HIS:ND1	45:WA:107:HIS:O	2.49	0.46
45:WA:251:ASP:H	45:WA:254:GLU:CD	2.21	0.46
45:WC:36:MET:HE1	45:WC:42:ILE:HD11	1.97	0.46
45:WC:66:VAL:HG11	45:WC:122:ILE:HD11	1.98	0.46
46:WD:19:LYS:NZ	46:WD:227:HIS:HA	2.30	0.46
45:WG:69:ASP:OD1	45:WG:71:GLU:HG3	2.15	0.46
45:WI:174:SER:OG	45:WI:207:GLU:OE1	2.31	0.46
45:WI:215:ARG:NH1	45:WI:299:ALA:HB1	2.31	0.46
45:WI:434:GLU:O	45:WI:437:ILE:HG12	2.16	0.46
45:WK:124:LYS:HE2	45:WK:124:LYS:HB2	1.81	0.46
46:WL:325:GLU:HA	46:WL:328:GLU:HG3	1.98	0.46
45:DC:68:LEU:HD23	45:DC:149:LEU:HD21	1.97	0.46
1:0A:80:LYS:NZ	1:0A:81:ASN:OD1	2.42	0.45
5:0E:92:LEU:H	5:0E:92:LEU:HD23	1.80	0.45
11:0S:186:ARG:O	11:0S:190:ILE:HD12	2.16	0.45
12:0T:269:LYS:HD2	13:0U:315:ARG:NH2	2.32	0.45
13:0U:59:SER:N	13:0U:73:GLY:O	2.38	0.45
13:0U:391:PRO:HB3	14:3V:6:ILE:HG13	1.98	0.45
1:1A:147:ARG:HH12	1:1A:149:PRO:HG3	1.80	0.45
16:1B:334:ARG:NH1	16:1B:334:ARG:O	2.49	0.45
5:1E:134:THR:HG23	5:1E:136:GLN:HG2	1.98	0.45
7:1G:119:ILE:HG22	7:1G:120:TYR:N	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:1I:119:ASN:HA	18:1I:122:LYS:NZ	2.32	0.45
19:1J:308:ASP:OD1	19:1J:309:GLY:N	2.47	0.45
19:1J:384:LYS:HD3	19:1J:387:LYS:HG2	1.97	0.45
21:1L:196:ARG:NH2	21:1L:197:TYR:OH	2.49	0.45
22:1M:314:VAL:HG13	22:1M:315:LYS:H	1.82	0.45
23:1O:214:ILE:HG12	45:UC:279:GLU:HA	1.98	0.45
24:1P:130:GLN:HA	24:1P:133:VAL:HG12	1.98	0.45
24:1P:341:LEU:HD21	45:TC:26:LEU:HD13	1.98	0.45
25:1R:382:TYR:OH	25:1R:386:GLY:O	2.26	0.45
25:1R:486:VAL:HG23	25:1R:499:ILE:HG22	1.98	0.45
14:1V:85:PHE:CZ	46:LJ:406:MET:HE1	2.51	0.45
26:1W:128:ARG:HH12	46:LF:219:THR:HG21	1.82	0.45
26:1W:185:PHE:HE2	26:1W:189:ARG:HH21	1.64	0.45
1:2A:40:GLY:C	1:2A:42:HIS:H	2.24	0.45
27:2C:213:ILE:O	27:2C:216:THR:HG22	2.16	0.45
5:2E:124:TYR:CE2	5:2E:126:CYS:HB2	2.51	0.45
21:2L:778:ILE:HG23	21:2L:783:ILE:HD11	1.97	0.45
22:2M:241:LYS:HD3	22:2M:349:GLY:O	2.16	0.45
23:2O:373:ARG:HH22	45:VC:283:HIS:CD2	2.35	0.45
10:2Q:180:GLU:HG2	10:2Q:181:PHE:CD2	2.51	0.45
25:2R:156:LYS:HE3	25:2R:166:TYR:CD2	2.50	0.45
25:2R:254:ASN:HB2	25:2R:276:ALA:HA	1.98	0.45
12:2T:146:MET:HE1	46:MJ:400:GLY:O	2.16	0.45
13:2U:118:ALA:HB2	13:2U:154:PHE:CZ	2.51	0.45
14:2V:66:ASP:OD1	14:2V:67:PHE:N	2.49	0.45
14:2V:68:CYS:SG	14:2V:73:ARG:NH2	2.89	0.45
16:3B:129:ALA:O	16:3B:191:SER:OG	2.31	0.45
13:3U:100:LEU:HD12	13:3U:132:TRP:CZ2	2.52	0.45
13:3U:546:GLU:HG2	13:3U:547:HIS:CD2	2.51	0.45
34:4R:12:LEU:C	46:LF:227:HIS:HE1	2.24	0.45
34:4R:549:MET:HE2	34:4R:606:PHE:CE1	2.51	0.45
34:4R:550:VAL:HA	34:4R:553:ILE:HG12	1.98	0.45
35:4S:106:PHE:HA	35:4S:109:LEU:HD13	1.98	0.45
37:5E:54:LYS:HZ3	46:OB:224:ASP:HA	1.81	0.45
34:5R:520:PRO:C	34:5R:522:VAL:H	2.24	0.45
35:5S:78:VAL:HG13	35:5S:79:ASN:N	2.31	0.45
40:6G:240:HIS:ND1	40:6G:240:HIS:O	2.49	0.45
10:6Q:40:GLN:NE2	10:6Q:41:ASP:OD1	2.49	0.45
34:6R:472:GLU:N	46:EN:78:ALA:HB1	2.32	0.45
45:AA:180:ALA:HA	46:AB:350:LYS:HD2	1.98	0.45
45:AC:28:HIS:HE1	45:AC:48:ALA:C	2.25	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AC:102:ASN:OD1	45:AC:105:ARG:N	2.41	0.45
46:AF:6:HIS:O	46:AF:63:ALA:HA	2.16	0.45
46:AF:238:CYS:HB2	46:AF:318:ARG:NH2	2.32	0.45
45:AG:254:GLU:O	45:AG:255:PHE:HD1	2.00	0.45
46:AH:377:MET:HA	46:AH:380:ARG:NH1	2.31	0.45
45:AI:171:ILE:HG23	45:AI:204:LEU:O	2.17	0.45
46:AL:238:CYS:HB2	46:AL:318:ARG:NH1	2.31	0.45
46:BB:199:CYS:O	46:BB:265:PHE:HA	2.16	0.45
45:BC:124:LYS:HD3	45:BC:124:LYS:HA	1.76	0.45
46:BD:19:LYS:HG3	46:BD:226:ASN:CB	2.45	0.45
45:BG:221:ARG:NH1	46:BH:322:SER:H	2.14	0.45
45:BM:80:THR:HA	45:BM:84:ARG:CZ	2.46	0.45
45:BM:192:HIS:HD2	45:BM:421:ALA:HA	1.81	0.45
46:BN:102:ALA:HB1	46:BN:401:GLU:HB2	1.99	0.45
46:BN:388:MET:HA	46:BN:388:MET:HE2	1.99	0.45
45:CA:21:TRP:HZ2	45:CA:65:ALA:HB2	1.81	0.45
46:CD:70:PRO:O	46:CD:74:ASP:CB	2.62	0.45
46:CH:285:THR:HB	46:CH:287:PRO:HD2	1.98	0.45
46:CH:341:PHE:HD2	46:CH:348:ASN:HD21	1.64	0.45
45:CI:326:LYS:HE2	46:CJ:220:PRO:HD2	1.97	0.45
45:CI:326:LYS:HD3	46:CJ:212:PHE:CZ	2.51	0.45
45:CK:108:TYR:HE2	45:CK:413:MET:HE3	1.81	0.45
45:CK:241:SER:OG	45:CK:250:VAL:O	2.30	0.45
45:DE:75:ILE:HD12	45:DE:75:ILE:H	1.81	0.45
45:DE:88:HIS:HD2	45:DE:91:GLN:HG3	1.81	0.45
46:DH:9:GLY:HA2	46:DH:66:MET:O	2.16	0.45
46:EB:253:LEU:O	46:EB:257:LEU:HB2	2.16	0.45
45:EE:31:GLN:HG2	45:EE:35:GLN:O	2.16	0.45
46:EF:163:ILE:O	46:EF:164:MET:HE2	2.16	0.45
46:EF:221:THR:HG22	46:EF:224:ASP:OD2	2.16	0.45
46:EH:323:THR:OG1	45:EI:210:TYR:OH	2.33	0.45
45:EI:352:LYS:HD2	46:EJ:177:ASP:O	2.16	0.45
46:EJ:258:ILE:HD11	45:EK:407:TRP:CZ2	2.51	0.45
45:EK:224:TYR:HD1	45:EK:227:LEU:HD12	1.81	0.45
45:EK:314:ALA:HB3	45:EK:380:ASN:HB3	1.98	0.45
45:EM:275:ILE:HA	45:EM:368:LEU:HD11	1.98	0.45
46:EN:51:TYR:HB3	46:EN:59:TYR:HB3	1.98	0.45
45:FA:12:GLY:HA2	45:FA:15:GLN:HG2	1.98	0.45
45:FA:398:MET:CE	46:FB:345:ILE:HD12	2.46	0.45
46:FB:211:CYS:O	46:FB:216:LYS:N	2.49	0.45
45:FC:276:ILE:HD11	45:FC:280:LYS:HG3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FC:353:VAL:HG12	46:FF:177:ASP:HB2	1.97	0.45
46:FJ:178:THR:HG22	46:FJ:180:VAL:H	1.81	0.45
45:FK:302:MET:HE3	45:FK:302:MET:HB3	1.82	0.45
46:FN:21:TRP:CZ3	46:FN:50:TYR:HB3	2.51	0.45
45:GA:179:THR:HG22	46:GB:350:LYS:HZ1	1.82	0.45
46:GH:313:ALA:HB1	46:GH:367:PHE:HE1	1.80	0.45
45:GI:107:HIS:O	45:GI:107:HIS:ND1	2.48	0.45
45:GK:210:TYR:CE1	45:GK:227:LEU:HD11	2.42	0.45
46:GL:3:GLU:OE1	46:GL:3:GLU:N	2.45	0.45
45:HC:72:PRO:HD2	46:HD:2:ARG:NH1	2.32	0.45
46:HD:178:THR:HB	46:HD:181:GLU:CD	2.41	0.45
45:HE:211:ASP:HB3	45:HE:215:ARG:NH1	2.31	0.45
45:HG:420:GLU:HA	45:HG:423:GLU:OE2	2.16	0.45
45:HI:7:ILE:HB	45:HI:137:VAL:HG12	1.97	0.45
45:HI:205:ASP:OD1	45:HI:303:ALA:HA	2.16	0.45
45:HI:239:THR:HG23	45:HI:243:ARG:HE	1.81	0.45
46:HJ:167:PHE:CE2	46:HJ:233:MET:HG2	2.51	0.45
46:HJ:174:LYS:HB2	46:HJ:205:GLU:OE1	2.16	0.45
45:HK:152:LEU:HA	45:HK:155:GLU:OE2	2.16	0.45
46:ID:86:ARG:HB3	46:ID:89:ASN:OD1	2.16	0.45
46:IF:229:VAL:O	46:IF:233:MET:HG3	2.15	0.45
45:IG:220:GLU:HG2	45:IG:221:ARG:HG2	1.98	0.45
45:IG:350:GLY:HA2	46:IJ:179:VAL:HG23	1.98	0.45
46:IJ:295:ASP:OD2	46:IJ:297:LYS:N	2.47	0.45
45:IK:174:SER:HB2	45:IK:177:VAL:O	2.15	0.45
46:IL:201:VAL:HG23	46:IL:301:CYS:SG	2.56	0.45
45:IM:384:ILE:O	45:IM:387:VAL:HG22	2.16	0.45
46:IN:114:ASP:N	46:IN:114:ASP:OD2	2.48	0.45
45:JA:80:THR:O	45:JA:84:ARG:NH2	2.49	0.45
46:JD:235:GLY:HA2	46:JD:238:CYS:SG	2.56	0.45
45:JE:147:SER:HB2	45:JE:190:SER:HB3	1.97	0.45
46:JF:290:THR:HA	46:JF:293:MET:HG2	1.98	0.45
45:JG:103:PHE:H	45:JG:408:TYR:HE1	1.65	0.45
45:JI:100:ALA:HA	46:JJ:252:LYS:CG	2.46	0.45
45:JM:152:LEU:HA	45:JM:155:GLU:OE2	2.16	0.45
46:JN:3:GLU:OE1	46:JN:127:CYS:HB2	2.16	0.45
46:JN:324:LYS:HG3	46:JN:325:GLU:N	2.31	0.45
46:JN:384:GLN:O	46:JN:388:MET:HG2	2.17	0.45
45:KA:260:VAL:HB	46:KD:397:TRP:HH2	1.81	0.45
46:KD:101:TRP:CE3	46:KD:187:LEU:HD23	2.51	0.45
45:KG:183:GLU:N	45:KG:184:PRO:HD2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KG:296:PHE:CD2	45:KG:335:ILE:HD12	2.51	0.45
46:KH:66:MET:CE	46:KH:147:MET:HE3	2.45	0.45
45:KK:352:LYS:HA	46:KN:177:ASP:O	2.16	0.45
46:LB:164:MET:O	46:LB:197:ASP:HB2	2.15	0.45
46:LD:186:THR:HA	46:LD:189:VAL:HG12	1.98	0.45
46:LF:287:PRO:HA	46:LF:290:THR:HG22	1.98	0.45
45:LI:71:GLU:CD	45:LI:73:THR:H	2.24	0.45
45:LI:195:LEU:HD12	45:LI:428:LEU:HD22	1.97	0.45
46:LJ:14:ASN:HD22	46:LJ:14:ASN:H	1.65	0.45
46:LJ:112:LEU:HD23	46:LJ:147:MET:HE1	1.97	0.45
45:LK:97:GLU:HG3	45:LK:105:ARG:HH22	1.80	0.45
45:LK:141:VAL:HG23	45:LK:170:THR:HB	1.98	0.45
45:LK:271:SER:HB2	45:LK:301:MET:SD	2.57	0.45
46:LL:73:MET:CE	46:LL:92:PHE:HB3	2.46	0.45
45:LM:129:CYS:SG	45:LM:132:LEU:HB2	2.57	0.45
45:LM:430:LYS:HA	45:LM:433:GLU:OE2	2.15	0.45
45:LM:430:LYS:O	45:LM:434:GLU:HB2	2.17	0.45
45:MA:205:ASP:OD2	45:MA:206:ASN:N	2.49	0.45
45:MA:414:GLU:OE1	45:MA:415:GLU:N	2.49	0.45
46:MB:6:HIS:O	46:MB:63:ALA:HA	2.15	0.45
45:MI:214:ARG:HH12	46:MJ:324:LYS:NZ	2.14	0.45
45:MI:220:GLU:HG2	45:MI:221:ARG:HD2	1.98	0.45
45:MI:318:MET:HE3	45:MI:318:MET:HB3	1.82	0.45
45:MI:399:TYR:O	45:MI:402:ARG:NH1	2.49	0.45
45:MK:256:GLN:CD	45:MK:256:GLN:H	2.23	0.45
45:MM:288:VAL:HG11	45:MM:327:ASP:HB3	1.97	0.45
46:MN:102:ALA:O	46:MN:106:TYR:HB2	2.16	0.45
45:NA:186:ASN:OD1	45:NA:187:SER:N	2.48	0.45
46:NB:31:ASP:OD1	46:NB:34:GLY:N	2.49	0.45
46:NB:156:ARG:CZ	46:NB:195:ASN:HA	2.47	0.45
46:ND:161:ASP:OD1	46:ND:162:ARG:N	2.49	0.45
45:NE:414:GLU:CD	45:NE:416:GLY:H	2.23	0.45
46:NF:318:ARG:HD3	46:NF:358:PRO:HD3	1.97	0.45
45:NG:147:SER:HB2	45:NG:190:SER:OG	2.15	0.45
46:NH:51:TYR:HE1	46:NH:61:PRO:HG3	1.81	0.45
46:NH:332:ASN:OD1	46:NH:336:LYS:HD3	2.15	0.45
45:NI:70:LEU:HD13	45:NI:145:THR:OG1	2.16	0.45
46:NJ:164:MET:HE3	46:NJ:164:MET:HA	1.98	0.45
45:NK:225:THR:O	45:NK:229:ARG:HG3	2.17	0.45
46:NL:112:LEU:HD22	46:NL:147:MET:HE1	1.99	0.45
46:NN:271:ALA:HB3	46:NN:365:VAL:HB	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OB:55:THR:HG23	46:PB:283:ALA:HA	1.97	0.45
45:OC:108:TYR:O	45:OC:112:LYS:NZ	2.33	0.45
45:OC:305:CYS:O	45:OC:307:PRO:HD3	2.16	0.45
45:OE:133:GLN:N	45:OE:133:GLN:OE1	2.49	0.45
45:OG:90:GLU:N	45:PG:280:LYS:HZ1	2.14	0.45
46:OH:105:HIS:CE1	46:OH:150:LEU:HD12	2.51	0.45
46:OH:199:CYS:HB3	46:OH:265:PHE:CD2	2.51	0.45
45:OI:21:TRP:CZ2	45:OI:65:ALA:HB2	2.52	0.45
45:OI:50:ASN:O	45:OI:64:ARG:NH1	2.28	0.45
45:OI:329:ASN:HD22	46:OL:175:VAL:CG1	2.30	0.45
45:OI:329:ASN:HD22	46:OL:175:VAL:HG12	1.81	0.45
46:OL:221:THR:HG23	46:OL:224:ASP:H	1.81	0.45
46:ON:133:PHE:CE1	46:ON:155:VAL:HG21	2.51	0.45
46:ON:173:PRO:HD3	46:ON:380:ARG:NH1	2.30	0.45
45:PC:88:HIS:HA	45:QC:280:LYS:HE2	1.98	0.45
45:PC:175:PRO:HA	45:PC:390:ARG:CZ	2.47	0.45
46:PD:81:PHE:HD2	46:PD:84:LEU:HD11	1.81	0.45
46:PD:131:GLN:HE22	46:PD:240:LEU:HD11	1.81	0.45
45:PE:345:ASP:OD2	45:PE:346:TRP:N	2.49	0.45
46:PF:86:ARG:NH2	46:QD:282:ARG:HG2	2.31	0.45
45:PI:121:ARG:HA	45:PI:121:ARG:HH11	1.80	0.45
45:PI:192:HIS:ND1	45:PI:424:ASP:OD2	2.48	0.45
46:PJ:260:PHE:CE2	46:PJ:425:TYR:HE1	2.35	0.45
45:PK:9:VAL:HG13	45:PK:139:ASN:HB3	1.98	0.45
45:PK:101:ASN:HA	45:PK:144:GLY:H	1.81	0.45
46:PL:12:CYS:O	46:PL:16:ILE:HG12	2.15	0.45
46:PN:58:ARG:HH21	46:PN:83:GLN:NE2	2.14	0.45
46:PN:132:GLY:HA3	46:PN:163:ILE:HG12	1.97	0.45
46:PN:415:MET:HE2	46:PN:415:MET:HA	1.98	0.45
45:QA:136:LEU:HD11	45:QA:169:PHE:CE2	2.51	0.45
45:QA:203:MET:HE3	45:QA:384:ILE:HG12	1.97	0.45
46:QD:101:TRP:HB2	46:QD:184:ASN:HB3	1.98	0.45
46:QD:201:VAL:HG12	46:QD:266:PHE:O	2.16	0.45
46:QH:50:TYR:HE2	46:QH:241:ARG:HD3	1.81	0.45
46:QH:105:HIS:HD2	46:QH:146:GLY:O	1.99	0.45
45:QI:5:ILE:HB	45:QI:135:PHE:HD1	1.82	0.45
46:QL:22:GLU:HG2	46:QL:81:PHE:CD2	2.51	0.45
45:QM:4:VAL:H	45:QM:64:ARG:HH12	1.64	0.45
45:QM:66:VAL:HG11	45:QM:122:ILE:HD11	1.97	0.45
45:RG:184:PRO:O	45:RG:188:ILE:HG12	2.15	0.45
46:RH:222:TYR:O	46:RH:226:ASN:ND2	2.28	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RJ:269:GLY:HA3	46:RJ:299:MET:HE1	1.98	0.45
45:RM:64:ARG:NH2	45:RM:129:CYS:SG	2.74	0.45
46:SB:167:PHE:CE1	46:SB:233:MET:HG2	2.52	0.45
46:SB:238:CYS:SG	46:SB:239:CYS:N	2.90	0.45
46:SB:344:TRP:CE3	45:SC:401:LYS:HE3	2.51	0.45
45:SC:74:VAL:O	45:SC:78:VAL:HG23	2.16	0.45
45:SC:395:PHE:CD1	45:SC:422:ARG:HD2	2.51	0.45
46:SD:391:ARG:HA	46:SD:391:ARG:HD2	1.75	0.45
46:SH:398:TYR:HB3	46:SH:403:MET:HE1	1.99	0.45
46:SJ:25:SER:OG	46:SJ:51:TYR:OH	2.30	0.45
46:SJ:200:MET:HE3	46:SJ:201:VAL:O	2.16	0.45
45:SK:144:GLY:N	47:SK:501:GTP:O2G	2.49	0.45
46:SN:318:ARG:HH11	46:SN:358:PRO:HG3	1.81	0.45
45:TA:262:TYR:OH	46:TB:391:ARG:O	2.30	0.45
45:TC:240:ALA:HA	45:TC:243:ARG:NH1	2.31	0.45
46:TD:86:ARG:HH21	46:TD:87:PRO:HG2	1.81	0.45
46:TJ:105:HIS:CE1	46:TJ:150:LEU:HD12	2.51	0.45
46:TL:226:ASN:HA	46:TL:229:VAL:HG22	1.98	0.45
46:TN:116:VAL:HA	46:TN:119:VAL:HG12	1.98	0.45
46:UD:182:PRO:HB2	46:UD:388:MET:HE2	1.98	0.45
46:UF:97:ALA:HB3	46:UF:143:THR:HG22	1.97	0.45
46:UF:287:PRO:HA	46:UF:290:THR:HG22	1.97	0.45
45:UG:414:GLU:CD	45:UG:416:GLY:H	2.24	0.45
46:UH:293:MET:HE2	46:UH:365:VAL:HG11	1.98	0.45
45:UI:2:ARG:O	45:UI:51:THR:HA	2.16	0.45
46:UL:4:ILE:HG13	46:UL:132:GLY:O	2.17	0.45
46:UL:45:GLU:OE1	46:UL:45:GLU:N	2.50	0.45
46:UL:150:LEU:O	46:UL:154:LYS:HG2	2.16	0.45
46:UL:189:VAL:HA	46:UL:192:LEU:HB2	1.97	0.45
46:UL:204:ASN:HA	46:UL:207:LEU:HD12	1.98	0.45
45:UM:2:ARG:O	45:UM:51:THR:HA	2.16	0.45
46:UN:272:PRO:HB3	46:UN:292:GLN:HE22	1.80	0.45
46:UN:313:ALA:HB1	46:UN:367:PHE:HE1	1.81	0.45
45:VA:282:TYR:OH	45:VA:370:LYS:O	2.24	0.45
45:VG:132:LEU:HD22	45:VG:164:LYS:NZ	2.32	0.45
46:VJ:403:MET:HE3	46:VJ:404:ASP:O	2.16	0.45
45:VK:121:ARG:HH21	45:VK:124:LYS:HD2	1.81	0.45
46:WB:47:ILE:HD12	46:WB:59:TYR:CE1	2.46	0.45
45:WE:419:SER:O	45:WE:422:ARG:N	2.50	0.45
46:WF:229:VAL:O	46:WF:233:MET:HG2	2.17	0.45
45:WG:315:CYS:HB3	45:WG:377:MET:CE	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:WL:116:VAL:HA	46:WL:119:VAL:HG22	1.96	0.45
46:WL:148:GLY:O	46:WL:152:ILE:HG13	2.16	0.45
45:WM:171:ILE:HG23	45:WM:204:LEU:O	2.16	0.45
45:DC:152:LEU:O	45:DC:156:ARG:HG2	2.16	0.45
45:DC:371:VAL:HG22	45:DC:373:ARG:H	1.81	0.45
2:0B:142:HIS:CG	2:0B:143:LYS:N	2.84	0.45
9:0N:75:MET:HA	9:0N:75:MET:HE2	1.98	0.45
10:0Q:170:ARG:HD2	10:0Q:171:LEU:HD23	1.97	0.45
10:0Q:173:SER:N	10:0Q:176:GLU:OE2	2.30	0.45
11:0S:278:ARG:NH2	46:WB:118:ASP:HB2	2.26	0.45
12:0T:65:ARG:HA	12:0T:65:ARG:HD2	1.61	0.45
15:0X:3:ARG:HD2	46:MD:15:GLN:HE22	1.81	0.45
4:1D:78:ALA:O	4:1D:80[A]:GLN:NE2	2.49	0.45
17:1F:58:LEU:HD11	8:1H:101:GLN:HB3	1.98	0.45
17:1F:165:LYS:HA	17:1F:165:LYS:HD3	1.84	0.45
8:1H:83:GLN:HA	8:1H:86:LYS:HG2	1.98	0.45
8:1H:115:ARG:O	8:1H:119:GLU:HG2	2.16	0.45
19:1J:248:LYS:HE3	19:1J:248:LYS:HB3	1.83	0.45
20:1K:15:ASN:HD21	45:NC:359:PRO:HD3	1.82	0.45
20:1K:150:ASP:OD1	20:1K:151:ALA:N	2.48	0.45
21:1L:72:MET:HE1	45:BI:222:PRO:HA	1.97	0.45
21:1L:155:LYS:HZ3	21:1L:159:GLN:HB2	1.81	0.45
11:1S:22:ALA:O	11:1S:25:LEU:N	2.48	0.45
15:1X:64:ARG:HD2	15:1X:68:ARG:NH1	2.30	0.45
16:2B:74:THR:HG23	16:2B:76:ARG:HG3	1.98	0.45
27:2C:66:LEU:HD23	27:2C:70:ASP:OD2	2.17	0.45
5:2E:134:THR:HG23	5:2E:136:GLN:OE1	2.17	0.45
29:2G:65:LYS:HE2	29:2G:65:LYS:HB2	1.63	0.45
31:2I:113:ASP:HB3	45:FC:160:ASP:O	2.17	0.45
31:2I:138:VAL:HA	46:GD:337:ASN:HD21	1.80	0.45
21:2L:626:ARG:HA	21:2L:629:GLU:OE1	2.17	0.45
22:2M:128:GLN:HB3	22:2M:132:ARG:NH1	2.31	0.45
22:2M:269:THR:HG21	22:2M:302:MET:HE2	1.98	0.45
22:2M:282:GLU:HA	22:2M:291:PHE:CZ	2.52	0.45
23:2O:156:ARG:HH22	45:VK:368:LEU:C	2.24	0.45
23:2O:228:GLN:HB3	46:UJ:56:GLY:CA	2.47	0.45
23:2O:296:LYS:O	23:2O:300:GLU:OE1	2.35	0.45
23:2O:431:ILE:O	23:2O:432:ALA:C	2.58	0.45
25:2R:389:GLU:OE1	25:2R:403:PRO:HB3	2.16	0.45
11:2S:230:MET:O	11:2S:234:LEU:HD23	2.16	0.45
12:2T:231:GLU:HB2	12:2T:235:THR:HG23	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:2U:574:HIS:CE1	13:2U:578:ILE:HD13	2.51	0.45
13:2U:580:ARG:HB2	13:2U:593:VAL:CG2	2.45	0.45
27:3C:157:PHE:O	27:3C:158:HIS:ND1	2.45	0.45
21:3L:216:ASP:OD1	21:3L:217:ASN:N	2.48	0.45
23:3O:401:ALA:O	23:3O:404:GLN:HG3	2.17	0.45
33:4F:144:TRP:H	33:4F:144:TRP:CD1	2.33	0.45
33:4F:196:THR:O	33:4F:199:SER:OG	2.29	0.45
36:5A:78:SER:C	46:NB:320:ARG:HH21	2.24	0.45
37:5E:117:ILE:HA	37:5E:118:PRO:HD3	1.83	0.45
37:5F:97:ARG:HH12	46:KF:262:ARG:CZ	2.29	0.45
37:5F:113:LEU:HD11	45:NE:80:THR:HG22	1.98	0.45
37:5F:116:TYR:OH	45:NE:60:LYS:NZ	2.50	0.45
37:5G:126:LEU:HD13	45:OI:285:GLN:HE21	1.81	0.45
37:5H:36:PRO:HB2	37:5H:40:TYR:HB2	1.99	0.45
37:5H:145:GLU:OE1	37:5H:149:ARG:NH1	2.49	0.45
10:5Q:1:MET:HB3	10:5Q:3:LYS:HE3	1.97	0.45
34:5R:298:ASP:OD1	34:5R:299:ALA:N	2.49	0.45
34:5R:500:VAL:HG21	46:EJ:32:PRO:HD2	1.99	0.45
39:6F:99:ARG:HD3	39:6F:101:SER:HB3	1.97	0.45
34:6R:500:VAL:HG12	34:6R:500:VAL:O	2.15	0.45
34:7R:12:LEU:C	46:LB:227:HIS:CE1	2.88	0.45
34:7R:311:LYS:HB2	34:7R:311:LYS:HE3	1.62	0.45
45:AC:11:GLN:HG3	45:AC:74:VAL:HG11	1.98	0.45
45:AC:220:GLU:HG2	45:AC:221:ARG:HG3	1.98	0.45
45:AC:238:LEU:HD11	45:AC:255:PHE:CZ	2.51	0.45
45:AC:362:VAL:HG13	45:AC:370:LYS:HD3	1.97	0.45
45:AE:183:GLU:N	45:AE:184:PRO:HD2	2.31	0.45
45:AG:183:GLU:N	45:AG:184:PRO:HD2	2.31	0.45
46:AH:190:HIS:CD2	46:AH:411:ALA:HA	2.52	0.45
46:AH:203:ASP:OD2	46:AH:377:MET:HE2	2.17	0.45
45:AK:176:GLN:NE2	45:AK:207:GLU:OE2	2.49	0.45
45:BA:194:LEU:HB2	45:BA:198:THR:OG1	2.17	0.45
46:BB:298:ASN:C	46:BB:299:MET:HE2	2.41	0.45
46:BB:309:ARG:HG3	46:BB:426:GLN:HE22	1.80	0.45
45:BC:18:ASN:O	45:BC:22:GLU:OE1	2.33	0.45
46:BD:105:HIS:CD2	46:BD:150:LEU:HB2	2.51	0.45
46:BD:164:MET:HE1	46:BD:196:ALA:HA	1.98	0.45
45:BE:387:VAL:HA	45:BE:390:ARG:HG2	1.98	0.45
46:BH:318:ARG:HH11	46:BH:358:PRO:HG3	1.80	0.45
45:BI:24:PHE:CE1	45:BI:52:PHE:HE2	2.34	0.45
45:BI:216:ASN:HB3	45:BI:275:ILE:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BJ:167:PHE:CE1	46:BJ:233:MET:SD	3.09	0.45
45:BK:222:PRO:O	46:BL:324:LYS:NZ	2.35	0.45
46:BL:247:ASN:C	46:BL:247:ASN:ND2	2.74	0.45
46:CB:209:ASP:C	46:CB:213:ARG:HH11	2.24	0.45
45:CC:88:HIS:CE1	45:DC:280:LYS:HE2	2.51	0.45
46:CD:323:THR:HG1	45:CE:224:TYR:HE1	1.63	0.45
46:CF:273:LEU:O	46:CF:282:ARG:NH1	2.47	0.45
45:CG:194:LEU:HD23	45:CG:198:THR:HG21	1.96	0.45
45:CG:346:TRP:CD1	46:CH:391:ARG:HG3	2.51	0.45
46:CJ:149:THR:HA	46:CJ:152:ILE:HD12	1.98	0.45
46:CJ:203:ASP:OD2	46:CJ:302:ALA:N	2.29	0.45
46:CL:86:ARG:NH1	46:CL:88:ASP:HB3	2.32	0.45
46:CL:375:GLN:OE1	46:CL:423:GLN:HB3	2.16	0.45
46:DB:344:TRP:HB3	46:DB:430:ALA:HB2	1.98	0.45
45:DE:205:ASP:OD1	45:DE:303:ALA:HA	2.15	0.45
46:EB:322:SER:OG	46:EB:325:GLU:OE2	2.25	0.45
45:EC:167:LEU:HD21	45:EC:252:ILE:HD11	1.97	0.45
45:EG:207:GLU:HA	45:EG:207:GLU:OE2	2.16	0.45
45:EI:434:GLU:O	45:EI:437:ILE:HG22	2.16	0.45
46:EJ:19:LYS:O	46:EJ:23:VAL:HG23	2.16	0.45
46:EN:100:ASN:ND2	46:EN:103:LYS:HG3	2.31	0.45
46:EN:274:THR:HB	46:EN:282:ARG:HH11	1.82	0.45
46:FB:260:PHE:HB2	46:FB:263:LEU:HD13	1.98	0.45
45:FG:231:ILE:O	45:FG:235:ILE:HG12	2.16	0.45
45:FI:253:THR:HA	45:FI:256:GLN:HE21	1.80	0.45
46:FJ:221:THR:HG23	46:FJ:224:ASP:H	1.81	0.45
46:FJ:250:LEU:HD12	46:FJ:250:LEU:H	1.81	0.45
46:FL:154:LYS:O	46:FL:157:GLU:HG3	2.16	0.45
45:GA:320:ARG:HD3	45:GA:360:PRO:HG3	1.97	0.45
45:GE:115:VAL:O	45:GE:119:LEU:HD23	2.16	0.45
46:GF:68:LEU:HD21	46:GF:147:MET:SD	2.56	0.45
46:GH:3:GLU:H	46:GH:3:GLU:CD	2.24	0.45
46:GH:406:MET:O	46:GH:410:GLU:HG2	2.16	0.45
46:GJ:133:PHE:HB2	46:GJ:164:MET:SD	2.56	0.45
46:GN:159:TYR:HB3	46:GN:162:ARG:HG2	1.97	0.45
46:GN:325:GLU:HA	46:GN:328:GLU:HG2	1.98	0.45
46:GN:409:THR:O	46:GN:412:GLU:HG3	2.17	0.45
45:HA:413:MET:HB3	45:HA:417:GLU:OE2	2.15	0.45
46:HB:239:CYS:O	46:HB:247:ASN:ND2	2.46	0.45
45:HC:284:GLU:OE1	45:HC:286:LEU:HD22	2.16	0.45
45:HE:284:GLU:HG2	45:HE:286:LEU:HD22	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HG:68:LEU:HD21	45:HG:118:CYS:HB2	1.98	0.45
46:HH:12:CYS:O	46:HH:16:ILE:HG12	2.15	0.45
46:HJ:22:GLU:HG2	46:HJ:81:PHE:CD1	2.49	0.45
46:HJ:28:HIS:C	46:HJ:43:GLN:HE21	2.24	0.45
45:HK:390:ARG:HG3	45:HK:391:LEU:HD12	1.98	0.45
46:HL:48:ASN:O	46:HL:62:ARG:NH1	2.48	0.45
46:HN:213:ARG:HG3	46:HN:297:LYS:NZ	2.32	0.45
46:HN:391:ARG:HD2	46:HN:391:ARG:HA	1.77	0.45
45:IA:288:VAL:HA	45:IA:291:ILE:HG12	1.97	0.45
46:IB:97:ALA:HA	46:IB:103:LYS:HE3	1.98	0.45
46:ID:201:VAL:O	46:ID:202:ILE:HD13	2.15	0.45
46:ID:417:ASP:O	46:ID:421:GLU:HG2	2.16	0.45
45:IE:286:LEU:O	45:IE:373:ARG:NH2	2.33	0.45
46:IH:72:THR:HG23	46:IH:73:MET:SD	2.56	0.45
46:IJ:16:ILE:HD12	46:IJ:229:VAL:HG11	1.98	0.45
45:IK:68:LEU:HD21	45:IK:118:CYS:HB2	1.97	0.45
46:JB:304:ASP:OD1	46:JB:307:HIS:CE1	2.69	0.45
46:JD:267:MET:HE1	46:JD:305:PRO:HG3	1.97	0.45
45:JI:46:ASP:N	45:JI:46:ASP:OD1	2.49	0.45
46:JL:380:ARG:HA	46:JL:383:GLU:HG3	1.98	0.45
46:JN:375:GLN:HG3	46:JN:379:LYS:HZ1	1.81	0.45
45:KC:11:GLN:NE2	45:KC:15:GLN:OE1	2.49	0.45
45:KG:252:ILE:HD12	45:KG:252:ILE:H	1.81	0.45
46:KJ:105:HIS:CD2	46:KJ:150:LEU:HB2	2.51	0.45
45:KK:413:MET:HE2	45:KK:413:MET:HB3	1.80	0.45
46:KL:395:LEU:O	46:KL:399:THR:HG23	2.16	0.45
45:KM:175:PRO:HB3	45:KM:390:ARG:NH1	2.31	0.45
46:KN:325:GLU:HA	46:KN:328:GLU:OE2	2.16	0.45
46:LB:175:VAL:HG21	46:LB:204:ASN:HD21	1.81	0.45
45:LI:183:GLU:N	45:LI:184:PRO:HD2	2.31	0.45
45:LI:238:LEU:HD11	45:LI:255:PHE:CE2	2.51	0.45
46:LJ:100:ASN:HB3	46:LJ:103:LYS:HB2	1.98	0.45
46:LJ:172:SER:HB2	46:LJ:174:LYS:HZ3	1.82	0.45
45:MA:282:TYR:CE1	45:MA:371:VAL:HG22	2.51	0.45
46:MB:116:VAL:O	46:MB:120:VAL:HG23	2.16	0.45
46:MB:420:SER:C	46:MB:424:GLN:HE22	2.24	0.45
45:ME:231:ILE:O	45:ME:235:ILE:HG12	2.17	0.45
46:MF:37:HIS:ND1	46:MF:37:HIS:O	2.49	0.45
45:MI:176:GLN:O	46:MJ:347:ASN:ND2	2.48	0.45
46:MJ:238:CYS:HB2	46:MJ:318:ARG:NH1	2.32	0.45
45:MK:260:VAL:HG13	45:MK:265:ILE:O	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MM:224:TYR:CE2	46:MN:323:THR:HG21	2.51	0.45
46:MN:69:GLU:OE1	46:MN:71:GLY:N	2.48	0.45
45:NA:72:PRO:HG2	46:NB:1:MET:CE	2.46	0.45
45:NA:180:ALA:HA	46:NB:350:LYS:HZ1	1.81	0.45
46:ND:200:MET:N	46:ND:200:MET:SD	2.89	0.45
46:NF:31:ASP:HB2	46:NF:32:PRO:HD2	1.99	0.45
46:NF:321:MET:N	46:NF:321:MET:SD	2.90	0.45
46:NH:64:ILE:HD13	46:NH:119:VAL:HG13	1.99	0.45
46:NH:203:ASP:O	46:NH:207:LEU:HG	2.16	0.45
46:NH:248:SER:HA	46:NH:252:LYS:HD3	1.99	0.45
46:NJ:233:MET:O	46:NJ:236:VAL:HG22	2.16	0.45
45:NM:10:GLY:O	45:NM:14:ILE:HG12	2.15	0.45
45:OA:319:TYR:HE2	45:OA:328:VAL:HG13	1.81	0.45
45:OC:174:SER:HB2	45:OC:177:VAL:O	2.16	0.45
45:OC:178:SER:HB2	46:OD:347:ASN:ND2	2.30	0.45
45:OE:206:ASN:OD1	47:OF:501:GTP:O2'	2.32	0.45
45:OE:331:SER:O	45:OE:335:ILE:HG12	2.16	0.45
45:OG:172:TYR:CE2	45:OG:203:MET:HE1	2.52	0.45
45:OG:221:ARG:O	45:OG:221:ARG:HG3	2.16	0.45
46:OH:34:GLY:HA3	46:OH:58:ARG:HG3	1.98	0.45
46:OL:16:ILE:HD13	46:OL:226:ASN:ND2	2.29	0.45
46:OL:207:LEU:HB3	46:OL:225:LEU:HD22	1.98	0.45
45:OM:174:SER:HB2	45:OM:177:VAL:O	2.16	0.45
45:PA:212:ILE:HD13	45:PA:215:ARG:NH2	2.31	0.45
46:PB:116:VAL:HA	46:PB:119:VAL:HG12	1.99	0.45
46:PD:44:LEU:HA	46:PD:47:ILE:HG23	1.98	0.45
46:PD:256:ASN:ND2	46:PD:350:LYS:HE3	2.32	0.45
46:PF:266:PHE:CE1	46:PF:370:ASN:HB2	2.51	0.45
45:PG:261:PRO:HG3	46:PJ:394:PHE:CE2	2.50	0.45
45:PK:171:ILE:HG21	47:PK:501:GTP:HN22	1.81	0.45
45:PM:221:ARG:HH12	46:PN:325:GLU:CD	2.23	0.45
45:PM:386:GLU:O	45:PM:390:ARG:HG2	2.17	0.45
46:PN:167:PHE:CZ	46:PN:233:MET:HE3	2.51	0.45
45:QA:211:ASP:O	45:QA:215:ARG:HG2	2.15	0.45
46:QB:16:ILE:HD13	46:QB:226:ASN:OD1	2.16	0.45
46:QD:330:MET:HB2	46:QD:349:ILE:HD12	1.97	0.45
45:QE:288:VAL:HA	45:QE:291:ILE:HG12	1.97	0.45
45:QG:11:GLN:NE2	45:QG:69:ASP:OD2	2.49	0.45
46:QH:110:ALA:O	46:QH:113:ILE:HG22	2.17	0.45
46:QH:254:ALA:O	46:QH:258:ILE:HG12	2.17	0.45
46:QJ:86:ARG:NH1	46:RJ:282:ARG:HG2	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QK:254:GLU:OE1	46:QL:99:ASN:ND2	2.48	0.45
46:QL:58:ARG:NH1	46:QL:59:TYR:O	2.50	0.45
45:QM:20:CYS:HA	45:QM:232:ALA:HB1	1.96	0.45
45:QM:70:LEU:HD13	45:QM:145:THR:OG1	2.16	0.45
45:RA:141:VAL:HG11	45:RA:172:TYR:HD1	1.81	0.45
45:RA:401:LYS:HE3	45:RA:401:LYS:HB2	1.73	0.45
46:RB:292:GLN:NE2	46:RB:298:ASN:OD1	2.49	0.45
46:RD:260:PHE:HB2	46:RD:263:LEU:HD13	1.98	0.45
45:RE:326:LYS:HZ3	46:RF:208:TYR:HB3	1.81	0.45
46:RH:116:VAL:HA	46:RH:119:VAL:HG22	1.98	0.45
45:RI:68:LEU:HD11	45:RI:118:CYS:SG	2.56	0.45
46:RJ:42:LEU:HA	46:RJ:45:GLU:HG3	1.97	0.45
45:RM:262:TYR:OH	46:RN:391:ARG:O	2.27	0.45
45:SC:55:GLU:HG3	45:SC:57:GLY:H	1.80	0.45
45:SC:267:PHE:HD2	45:SC:388:PHE:HZ	1.64	0.45
46:SD:4:ILE:HG13	46:SD:132:GLY:O	2.17	0.45
46:SF:226:ASN:HA	46:SF:229:VAL:HG12	1.99	0.45
45:SG:390:ARG:HG3	45:SG:391:LEU:HD12	1.98	0.45
45:SI:209:ILE:CD1	45:SI:227:LEU:HD22	2.47	0.45
46:SJ:320:ARG:HG2	46:SJ:355:ASP:HB3	1.99	0.45
45:SK:402:ARG:HG3	45:SK:405:VAL:HG21	1.98	0.45
46:SL:100:ASN:HB3	46:SL:103:LYS:HB3	1.97	0.45
46:SL:330:MET:HA	46:SL:333:VAL:HG22	1.98	0.45
45:SM:326:LYS:HD3	46:SN:212:PHE:CZ	2.47	0.45
46:TB:241:ARG:HH22	46:TB:318:ARG:NH2	2.15	0.45
45:TC:229:ARG:NH1	45:TC:366:GLY:HA2	2.31	0.45
45:TC:257:THR:HG22	46:TD:100:ASN:HD21	1.79	0.45
45:TE:401:LYS:HE3	45:TE:401:LYS:HB2	1.70	0.45
46:TF:87:PRO:HA	46:TF:90:PHE:CD2	2.52	0.45
45:TI:167:LEU:HD13	45:TI:200:VAL:HB	1.98	0.45
45:TI:414:GLU:HB3	45:TI:417:GLU:OE1	2.17	0.45
46:TJ:225:LEU:O	46:TJ:228:LEU:HG	2.16	0.45
46:TJ:262:ARG:NH1	46:TJ:421:GLU:OE1	2.49	0.45
46:UB:6:HIS:O	46:UB:63:ALA:HA	2.16	0.45
46:VB:316:LEU:HB2	46:VB:366:THR:OG1	2.16	0.45
46:VH:105:HIS:CE1	46:VH:150:LEU:HD12	2.51	0.45
45:VI:269:LEU:HD12	45:VI:301:MET:SD	2.56	0.45
46:VJ:97:ALA:HA	46:VJ:103:LYS:HG2	1.98	0.45
46:VJ:204:ASN:HA	46:VJ:207:LEU:HD12	1.98	0.45
46:VL:36:TYR:CZ	46:VL:44:LEU:HD11	2.51	0.45
46:VL:237:THR:HG23	46:VL:241:ARG:NE	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VL:288:GLU:HA	46:VL:291:GLN:HG3	1.98	0.45
46:VN:87:PRO:HA	46:VN:90:PHE:HD2	1.81	0.45
46:VN:312:THR:HG22	46:VN:370:ASN:OD1	2.16	0.45
46:WD:11:GLN:HB3	46:WD:72:THR:HG21	1.97	0.45
45:WE:319:TYR:CE2	45:WE:328:VAL:HG22	2.50	0.45
46:WF:97:ALA:HA	46:WF:103:LYS:HD2	1.98	0.45
45:WG:221:ARG:NE	46:WH:322:SER:OG	2.48	0.45
46:WH:74:ASP:HA	46:WH:77:ARG:HH11	1.81	0.45
46:WH:113:ILE:HD11	46:WH:151:LEU:HB2	1.97	0.45
45:WI:75:ILE:HG23	45:WI:92:LEU:HD12	1.98	0.45
45:WK:212:ILE:HD11	45:WK:300:ASN:HA	1.99	0.45
45:CE:172:TYR:OH	45:CE:191:THR:HG22	2.17	0.45
4:0D:193:ASN:O	4:0D:197:THR:HG23	2.16	0.45
7:0G:38:GLU:OE2	46:JL:359:LYS:HG3	2.16	0.45
10:0Q:1:MET:H2	10:0Q:3:LYS:HG2	1.81	0.45
11:0S:187:PHE:HD2	11:0S:188:LEU:HD12	1.81	0.45
12:0T:264:LYS:NZ	13:0U:26:ASP:O	2.40	0.45
13:0U:106:GLN:NE2	13:0U:122:GLY:HA2	2.29	0.45
13:0U:229:ARG:NH1	13:0U:269:MET:HE3	2.31	0.45
16:1B:327:LYS:HE3	16:1B:328:GLN:HE21	1.82	0.45
17:1F:167:HIS:H	45:GK:96:LYS:HG3	1.81	0.45
8:1H:29:TYR:CZ	33:4F:168:GLU:HB3	2.51	0.45
8:1H:29:TYR:HB2	8:1H:32:GLN:HB3	1.99	0.45
19:1J:136:ASP:N	19:1J:136:ASP:OD1	2.48	0.45
19:1J:331:SER:O	19:1J:332:ILE:HG22	2.16	0.45
22:1M:288:LEU:C	22:1M:290:GLU:N	2.75	0.45
9:1N:23:TRP:O	9:1N:27:GLU:HG2	2.15	0.45
24:1P:340:ARG:O	24:1P:344:ILE:HG12	2.16	0.45
11:1S:189:ALA:O	11:1S:193:THR:HG23	2.16	0.45
12:1T:39:ALA:HA	12:1T:42:HIS:HD2	1.82	0.45
13:1U:52:ARG:NH2	13:1U:573:GLY:HA2	2.31	0.45
14:1V:24:ARG:NH2	45:MI:434:GLU:OE2	2.49	0.45
27:2C:6:VAL:HB	15:4X:70:TYR:HE1	1.80	0.45
5:2E:49:PHE:O	5:2E:53:LYS:HG2	2.16	0.45
28:2F:92:MET:HE2	28:2F:92:MET:HB3	1.80	0.45
30:2H:174:PHE:CE2	45:AA:357:TYR:HB2	2.52	0.45
21:2L:631:MET:HG2	21:2L:685:ILE:HD11	1.98	0.45
21:2L:906:ASP:HA	21:2L:909:PHE:HB3	1.98	0.45
23:2O:180:MET:HA	23:2O:183:ILE:HD12	1.97	0.45
23:2O:312:ASP:O	23:2O:315:GLU:HG3	2.17	0.45
23:2O:345:GLU:O	23:2O:349:ARG:HG2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:2Q:73:LEU:HB3	10:2Q:169:ASP:OD1	2.17	0.45
13:2U:98:LEU:HD23	13:2U:132:TRP:CD2	2.52	0.45
13:2U:591:VAL:HG23	13:2U:601:ILE:HG22	1.97	0.45
14:2V:232:ILE:CG2	14:2V:238:LYS:HD2	2.47	0.45
30:3H:177:ASN:ND2	45:AE:357:TYR:CE1	2.85	0.45
23:3O:341:LYS:HA	23:3O:344:MET:HE2	1.98	0.45
23:3O:373:ARG:NH1	45:UI:282:TYR:H	2.14	0.45
10:3Q:15:TYR:OH	10:3Q:17:ILE:HD12	2.17	0.45
10:3Q:85:LYS:HE3	10:3Q:159:ASN:HD22	1.81	0.45
25:3R:97:ARG:O	25:3R:98:GLN:NE2	2.44	0.45
25:3R:306:LYS:HB3	25:3R:320:ASN:HB3	1.98	0.45
11:3S:82:GLU:OE2	12:3T:251:LYS:NZ	2.46	0.45
12:3T:280:GLN:HB2	13:3U:47:SER:HA	1.97	0.45
13:3U:324:ASN:ND2	13:3U:365:CYS:O	2.48	0.45
13:3U:532:GLU:HG2	13:3U:533:GLU:N	2.31	0.45
15:3X:99:VAL:HG12	45:MK:282:TYR:CE2	2.51	0.45
27:4C:238:PHE:HZ	27:4C:247:GLY:HA2	1.81	0.45
34:4R:231:TYR:HA	34:4R:234:VAL:HG12	1.98	0.45
36:5B:126:ILE:HD11	46:NH:224:ASP:HA	1.98	0.45
34:5R:32:THR:HG23	34:5R:39:CYS:SG	2.57	0.45
10:6Q:71:ILE:HG21	10:6Q:167:PHE:CD2	2.51	0.45
34:7R:555:ASN:OD1	34:7R:575:ARG:NE	2.48	0.45
45:AA:89:PRO:HD2	45:BA:280:LYS:CE	2.47	0.45
45:AA:223:THR:HG23	45:AA:225:THR:H	1.81	0.45
46:AB:121:ARG:O	46:AB:125:GLU:OE1	2.34	0.45
45:AE:174:SER:HB2	45:AE:177:VAL:O	2.16	0.45
45:AE:383:ALA:O	45:AE:386:GLU:HG2	2.17	0.45
45:AG:174:SER:HB3	45:AG:207:GLU:HG3	1.98	0.45
46:AH:293:MET:HE2	46:AH:365:VAL:HG11	1.97	0.45
45:AI:332:ILE:HD12	45:AI:351:PHE:CE2	2.52	0.45
46:AJ:86:ARG:HE	46:AJ:87:PRO:HD2	1.81	0.45
46:AJ:208:TYR:CE2	46:AJ:225:LEU:HD11	2.51	0.45
46:AN:19:LYS:HA	46:AN:19:LYS:HD2	1.76	0.45
46:AN:287:PRO:HG3	46:AN:329:GLN:NE2	2.31	0.45
46:BD:293:MET:SD	46:BD:365:VAL:HG11	2.56	0.45
45:BG:329:ASN:HA	45:BG:332:ILE:HG22	1.98	0.45
46:BJ:342:VAL:HG22	46:BJ:344:TRP:HD1	1.81	0.45
45:BK:311:LYS:HD2	45:BK:343:PHE:C	2.41	0.45
46:BL:410:GLU:O	46:BL:413:SER:OG	2.23	0.45
45:BM:27:GLU:OE1	45:BM:236:SER:OG	2.33	0.45
46:BN:86:ARG:HD2	46:CL:281:TYR:CD1	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:116:VAL:O	46:BN:119:VAL:HG12	2.17	0.45
45:CA:55:GLU:HA	45:CA:55:GLU:OE2	2.16	0.45
46:CF:46:ARG:NH2	45:CG:76:ASP:OD2	2.46	0.45
46:CJ:16:ILE:HD12	46:CJ:229:VAL:HG11	1.98	0.45
45:CK:326:LYS:HZ2	46:CL:220:PRO:HD2	1.81	0.45
46:CL:207:LEU:HD13	46:CL:225:LEU:HB2	1.97	0.45
46:CL:375:GLN:C	46:CL:379:LYS:HZ2	2.24	0.45
45:CM:5:ILE:HB	45:CM:135:PHE:CD1	2.50	0.45
45:CM:270:SER:OG	45:CM:271:SER:N	2.50	0.45
45:DA:258:ASN:HD21	46:DB:178:THR:HG23	1.81	0.45
45:DA:292:THR:HG21	45:DA:331:SER:HB3	1.97	0.45
46:DD:73:MET:HB2	46:DD:90:PHE:CD1	2.52	0.45
46:DD:420:SER:O	46:DD:424:GLN:HG2	2.16	0.45
46:DF:102:ALA:HB2	46:DF:398:TYR:HD1	1.80	0.45
45:DG:269:LEU:HD22	45:DG:305:CYS:SG	2.56	0.45
46:DJ:163:ILE:HA	46:DJ:197:ASP:OD2	2.16	0.45
46:DJ:208:TYR:HE1	46:DJ:225:LEU:HD11	1.80	0.45
46:DJ:323:THR:HG21	45:DK:224:TYR:CE1	2.52	0.45
45:DK:370:LYS:C	45:DK:370:LYS:HD3	2.41	0.45
46:DL:310:TYR:HD2	46:DL:371:SER:HB2	1.81	0.45
46:DL:322:SER:OG	45:DM:221:ARG:HD2	2.15	0.45
46:EB:87:PRO:HA	46:EB:90:PHE:CE2	2.52	0.45
46:EB:318:ARG:HG2	46:EB:354:CYS:SG	2.56	0.45
46:ED:257:LEU:HD12	46:ED:312:THR:HG23	1.98	0.45
46:EF:200:MET:HE3	46:EF:268:ILE:HG21	1.97	0.45
46:EJ:6:HIS:CE1	46:EJ:8:GLN:HB2	2.51	0.45
45:EK:174:SER:HA	45:EK:205:ASP:OD2	2.15	0.45
46:EL:259:PRO:HG2	46:EL:311:LEU:HD21	1.98	0.45
46:EN:210:ILE:O	46:EN:214:THR:OG1	2.30	0.45
45:FA:136:LEU:HD21	45:FA:138:PHE:CE1	2.51	0.45
46:FB:372:THR:HA	46:FB:422:TYR:HE2	1.81	0.45
46:FD:11:GLN:HA	46:FD:72:THR:HG21	1.97	0.45
45:FE:192:HIS:CD2	45:FE:421:ALA:HA	2.51	0.45
45:FE:256:GLN:O	46:FH:397:TRP:NE1	2.49	0.45
45:FI:172:TYR:OH	45:FI:191:THR:HG22	2.16	0.45
45:FI:212:ILE:HD11	45:FI:300:ASN:HA	1.98	0.45
45:FI:241:SER:OG	45:FI:250:VAL:O	2.30	0.45
45:FK:172:TYR:OH	45:FK:191:THR:HG22	2.16	0.45
45:FK:394:LYS:HE3	45:FK:394:LYS:HA	1.97	0.45
46:FL:321:MET:N	46:FL:321:MET:SD	2.90	0.45
46:FN:49:VAL:HG12	46:FN:50:TYR:CD1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GB:10:GLY:O	46:GB:14:ASN:ND2	2.50	0.45
45:GE:184:PRO:O	45:GE:188:ILE:HG12	2.16	0.45
46:GN:285:THR:HB	46:GN:287:PRO:HD2	1.98	0.45
45:HA:316:SER:HA	45:HA:352:LYS:HB3	1.98	0.45
46:HB:282:ARG:NH2	46:HB:288:GLU:OE1	2.35	0.45
46:HD:207:LEU:HB3	46:HD:225:LEU:HD22	1.98	0.45
46:HD:268:ILE:HG13	46:HD:300:MET:HE3	1.97	0.45
45:HI:296:PHE:HE2	45:HI:335:ILE:HG21	1.80	0.45
46:HJ:201:VAL:HG23	46:HJ:301:CYS:SG	2.56	0.45
45:HK:119:LEU:HD11	45:HK:160:ASP:OD2	2.17	0.45
45:HK:319:TYR:CE2	45:HK:328:VAL:HG22	2.51	0.45
46:HL:31:ASP:HB2	46:HL:32:PRO:HD2	1.98	0.45
46:IB:3:GLU:HG3	46:IB:62:ARG:NH1	2.31	0.45
46:IB:22:GLU:HG2	46:IB:81:PHE:CD1	2.51	0.45
46:IB:286:VAL:CG2	46:IB:287:PRO:HD3	2.46	0.45
45:IC:39:ASP:OD2	45:IC:40:LYS:N	2.49	0.45
46:ID:9:GLY:HA2	46:ID:66:MET:O	2.16	0.45
46:ID:306:ARG:HD2	46:ID:340:TYR:CZ	2.51	0.45
46:ID:380:ARG:HG3	46:ID:381:VAL:N	2.32	0.45
45:II:284:GLU:HG3	45:II:286:LEU:HD22	1.98	0.45
46:IJ:396:HIS:CD2	46:IJ:397:TRP:CD1	3.05	0.45
46:IL:163:ILE:HA	46:IL:197:ASP:OD1	2.17	0.45
46:IN:332:ASN:OD1	46:IN:336:LYS:HE3	2.17	0.45
46:JB:6:HIS:CE1	46:JB:8:GLN:HB3	2.52	0.45
45:JC:142:GLY:CA	45:JC:183:GLU:HG3	2.47	0.45
45:JC:250:VAL:HG13	45:JC:254:GLU:HB2	1.99	0.45
46:JL:166:THR:OG1	46:JL:199:CYS:HA	2.17	0.45
45:KA:88:HIS:HE2	45:KA:90:GLU:HG2	1.82	0.45
46:KB:5:VAL:HA	46:KB:62:ARG:HG3	1.99	0.45
45:KC:192:HIS:ND1	45:KC:424:ASP:OD1	2.49	0.45
45:KE:342:GLN:OE1	45:KE:342:GLN:N	2.49	0.45
45:KG:172:TYR:HD1	45:KG:173:PRO:HD2	1.81	0.45
46:KN:12:CYS:SG	46:KN:169:VAL:HG21	2.56	0.45
45:LC:123:ARG:NH1	45:MC:338:LYS:HE2	2.31	0.45
46:LD:374:ILE:HG22	46:LD:422:TYR:CE2	2.51	0.45
45:LE:55:GLU:OE2	45:LE:56:THR:N	2.49	0.45
45:LE:223:THR:HG22	45:LE:224:TYR:N	2.30	0.45
46:LF:67:ASP:OD2	46:LF:68:LEU:N	2.50	0.45
46:LF:276:ARG:HG3	46:LF:276:ARG:HH11	1.81	0.45
46:LL:133:PHE:HB2	46:LL:164:MET:SD	2.56	0.45
46:LN:100:ASN:HB3	46:LN:103:LYS:HG3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MA:49:PHE:HE2	45:MA:55:GLU:HG2	1.81	0.45
45:MA:63:PRO:HG2	45:MA:87:PHE:CE2	2.50	0.45
46:MB:12:CYS:O	46:MB:16:ILE:HG12	2.17	0.45
46:MB:104:GLY:HA3	46:MB:143:THR:HA	1.98	0.45
46:MB:334:GLN:HA	46:MB:341:PHE:HE2	1.81	0.45
46:ML:167:PHE:CZ	46:ML:233:MET:HG3	2.51	0.45
45:MM:98:ASP:OD1	45:MM:99:ALA:N	2.49	0.45
46:MN:151:LEU:O	46:MN:155:VAL:HG22	2.15	0.45
46:MN:401:GLU:N	46:MN:401:GLU:OE2	2.50	0.45
45:NE:88:HIS:CE1	45:OE:280:LYS:HZ1	2.34	0.45
46:NH:3:GLU:OE2	46:NH:127:CYS:HB2	2.17	0.45
46:NJ:262:ARG:NE	46:NJ:421:GLU:OE2	2.49	0.45
46:NN:309:ARG:HH21	46:NN:342:VAL:HA	1.81	0.45
46:NN:332:ASN:OD1	46:NN:333:VAL:N	2.49	0.45
46:NN:342:VAL:HG13	46:NN:345:ILE:HG22	1.99	0.45
46:OB:32:PRO:HA	46:OB:84:LEU:HD21	1.98	0.45
45:OE:221:ARG:HA	45:OE:221:ARG:HD2	1.78	0.45
46:OJ:253:LEU:O	46:OJ:257:LEU:HG	2.16	0.45
46:OJ:344:TRP:CE3	46:OJ:345:ILE:HG23	2.51	0.45
46:OL:118:ASP:O	46:OL:121:ARG:HG2	2.17	0.45
45:OM:3:GLU:N	45:OM:3:GLU:OE1	2.49	0.45
45:OM:174:SER:HB3	45:OM:207:GLU:OE1	2.16	0.45
45:PA:88:HIS:O	45:PA:91:GLN:HG2	2.16	0.45
45:PA:329:ASN:HB2	46:PD:175:VAL:HG12	1.98	0.45
45:PC:51:THR:HG23	45:PC:52:PHE:CD2	2.51	0.45
45:PC:214:ARG:HE	45:PC:215:ARG:NH1	2.15	0.45
45:PE:56:THR:HG23	45:PE:58:ALA:H	1.81	0.45
45:PG:60:LYS:HG2	45:PG:61:HIS:N	2.31	0.45
45:PI:171:ILE:HG23	45:PI:204:LEU:O	2.17	0.45
45:PI:200:VAL:HG13	45:PI:268:MET:CE	2.46	0.45
46:PL:103:LYS:HE3	46:PL:103:LYS:HB2	1.62	0.45
46:PN:153:SER:HA	46:PN:195:ASN:HD22	1.81	0.45
46:QB:273:LEU:N	46:QB:292:GLN:HE22	2.13	0.45
45:QE:31:GLN:OE1	45:QE:37:PRO:HD3	2.16	0.45
45:QE:184:PRO:O	45:QE:188:ILE:HG12	2.17	0.45
45:QG:36:MET:HE3	45:QG:37:PRO:HD2	1.96	0.45
45:QG:332:ILE:O	45:QG:335:ILE:HG12	2.17	0.45
46:QJ:239:CYS:HB2	46:QJ:316:LEU:HD11	1.98	0.45
46:QL:134:GLN:HA	46:QL:165:GLU:O	2.17	0.45
45:QM:109:THR:HB	45:QM:110:ILE:HD12	1.98	0.45
46:RD:255:VAL:HA	45:RE:407:TRP:CH2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RF:262:ARG:HG3	46:RF:263:LEU:HD12	1.98	0.45
45:RG:259:LEU:HB3	45:RG:268:MET:CE	2.43	0.45
46:RH:167:PHE:CZ	46:RH:200:MET:HG3	2.51	0.45
45:RI:31:GLN:HE21	45:RI:35:GLN:HB3	1.81	0.45
46:SB:23:VAL:HG21	46:SB:230:SER:HB3	1.98	0.45
45:SE:127:ASP:OD1	45:SE:128:ASN:N	2.50	0.45
45:SG:387:VAL:HA	45:SG:390:ARG:HG2	1.98	0.45
46:SH:284:LEU:HB3	46:SH:363:MET:HE2	1.98	0.45
45:SK:124:LYS:HA	45:SK:124:LYS:HD3	1.79	0.45
46:SL:342:VAL:HG13	46:SL:345:ILE:HG22	1.97	0.45
46:SN:382:ALA:HB2	46:SN:415:MET:HE3	1.98	0.45
45:TA:244:PHE:HB2	45:TA:356:ASN:HD21	1.80	0.45
45:TC:268:MET:HB2	45:TC:379:SER:O	2.15	0.45
45:TE:151:SER:O	45:TE:155:GLU:OE1	2.34	0.45
45:TG:49:PHE:HD1	45:TG:53:PHE:HB2	1.82	0.45
45:TG:68:LEU:HD13	45:TG:93:ILE:HB	1.98	0.45
46:TJ:69:GLU:CD	46:TJ:71:GLY:H	2.25	0.45
45:TK:248:LEU:HD12	45:TK:355:ILE:HD12	1.97	0.45
46:TL:164:MET:N	46:TL:197:ASP:OD2	2.50	0.45
46:TL:393:ALA:HB1	46:TL:394:PHE:HD1	1.81	0.45
46:TN:182:PRO:HG3	46:TN:384:GLN:CD	2.41	0.45
46:UB:164:MET:HE3	46:UB:165:GLU:H	1.80	0.45
45:UC:31:GLN:HG3	45:UC:37:PRO:HD3	1.98	0.45
46:UD:324:LYS:HE3	45:UE:210:TYR:CD1	2.51	0.45
46:UD:372:THR:HA	46:UD:422:TYR:CE2	2.48	0.45
45:UE:174:SER:HB2	45:UE:177:VAL:HB	1.98	0.45
46:UH:41:ASP:OD1	46:UH:42:LEU:HD12	2.17	0.45
45:UI:32:PRO:HB3	45:UI:83:TYR:CE1	2.51	0.45
45:UI:254:GLU:HG2	46:UJ:98:GLY:HA2	1.98	0.45
45:UI:348:PRO:HD3	46:UJ:388:MET:CE	2.45	0.45
46:UJ:46:ARG:NH1	46:UJ:240:LEU:O	2.46	0.45
45:UM:88:HIS:O	45:UM:91:GLN:HG2	2.16	0.45
45:UM:256:GLN:OE1	46:UN:397:TRP:NE1	2.49	0.45
45:UM:326:LYS:HB3	46:UN:208:TYR:HE2	1.80	0.45
45:VA:391:LEU:HD22	45:VA:394:LYS:HZ3	1.81	0.45
45:VE:298:PRO:O	45:VE:301:MET:HG2	2.16	0.45
45:VE:332:ILE:HD11	45:VE:351:PHE:CG	2.52	0.45
45:VG:242:LEU:HD11	45:VG:252:ILE:HG23	1.98	0.45
46:VJ:68:LEU:HB3	46:VJ:96:GLY:HA2	1.98	0.45
46:VJ:260:PHE:HB3	46:VJ:262:ARG:NH2	2.31	0.45
45:VK:254:GLU:O	45:VK:255:PHE:HD2	2.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VK:318:MET:HE1	45:VK:320:ARG:HB2	1.98	0.45
45:WA:185:TYR:HA	45:WA:395:PHE:HE1	1.80	0.45
45:WA:231:ILE:O	45:WA:235:ILE:HG12	2.16	0.45
46:WB:77:ARG:HH21	46:WB:83:GLN:NE2	2.09	0.45
46:WB:304:ASP:HB3	46:WB:307:HIS:ND1	2.31	0.45
46:WD:229:VAL:O	46:WD:233:MET:HG2	2.17	0.45
45:WE:214:ARG:HG2	45:WE:214:ARG:HH11	1.81	0.45
45:WG:237:SER:O	45:WG:318:MET:HE2	2.17	0.45
45:WG:259:LEU:HD13	45:WG:268:MET:HE1	1.98	0.45
46:WJ:97:ALA:O	46:WJ:103:LYS:HE2	2.16	0.45
45:WK:203:MET:HG3	45:WK:384:ILE:HD11	1.99	0.45
46:WL:23:VAL:O	46:WL:27:GLU:OE1	2.34	0.45
46:WN:344:TRP:HB3	46:WN:430:ALA:HB2	1.99	0.45
45:DC:37:PRO:O	45:DC:38:SER:OG	2.27	0.45
1:0A:40:GLY:C	1:0A:42:HIS:H	2.23	0.45
2:0B:106:LYS:HB2	22:2M:120:ASN:ND2	2.31	0.45
2:0B:151:VAL:HB	2:0B:154:PHE:HB3	1.99	0.45
6:0F:20:LEU:HD22	45:EE:362:VAL:CG1	2.46	0.45
9:0N:30:MET:HE3	9:0N:30:MET:HB3	1.87	0.45
9:0N:265:ASN:OD1	9:0N:266:GLN:N	2.49	0.45
10:0Q:1:MET:SD	10:0Q:2:PHE:HD2	2.40	0.45
10:0Q:7:GLN:HB3	10:0Q:73:LEU:HD21	1.98	0.45
11:0S:32:LYS:O	11:0S:34:ILE:HG23	2.17	0.45
12:0T:269:LYS:HE3	13:0U:304:TRP:CD1	2.51	0.45
13:0U:23:LEU:HD21	13:0U:27:ASN:ND2	2.31	0.45
16:1B:108:LEU:HD23	16:1B:108:LEU:HA	1.78	0.45
16:1B:207:LEU:HD13	16:1B:274:LYS:HD2	1.97	0.45
3:1C:80:ARG:NH1	46:EL:359:LYS:HA	2.32	0.45
5:1E:85:LEU:O	5:1E:89:ARG:HG3	2.16	0.45
5:1E:131:LYS:HA	5:1E:134:THR:HG22	1.97	0.45
7:1G:52:LYS:HD2	7:1G:53:ASN:N	2.32	0.45
8:1H:300:GLU:OE1	45:GC:58:ALA:HB3	2.17	0.45
8:1H:334:TYR:OH	46:HD:280:GLN:NE2	2.49	0.45
19:1J:116:VAL:HA	19:1J:123:MET:HG2	1.99	0.45
21:1L:739:LEU:O	21:1L:743:ILE:HG12	2.16	0.45
22:1M:33:THR:OG1	22:1M:48:ARG:NH1	2.48	0.45
22:1M:114:SER:OG	22:1M:169:ARG:NH2	2.50	0.45
9:1N:388:LYS:HE3	9:1N:468:HIS:HB3	1.99	0.45
23:1O:278:ARG:NH2	45:UA:221:ARG:H	2.14	0.45
24:1P:374:ILE:HG22	24:1P:378:LYS:NZ	2.30	0.45
10:1Q:68:THR:HG22	10:1Q:70:GLY:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:1R:312:GLN:NE2	46:CD:360:GLY:HA3	2.32	0.45
25:1R:458:ILE:CG1	46:FD:276:ARG:HH12	2.26	0.45
25:1R:463:PHE:HD2	25:1R:464:LEU:HG	1.82	0.45
15:1X:9:PHE:CE1	15:1X:37:ARG:HD2	2.51	0.45
5:2E:53:LYS:HE2	34:5R:382:TYR:CE1	2.51	0.45
20:2K:334:GLU:O	20:2K:337:GLN:HG3	2.16	0.45
23:2O:413:GLN:O	23:2O:417:GLU:HG2	2.16	0.45
25:2R:504:GLU:HA	25:2R:507:LEU:HB2	1.99	0.45
12:2T:228:PRO:HG2	12:2T:231:GLU:OE1	2.16	0.45
13:2U:408:VAL:HG11	13:2U:411:LEU:HD21	1.99	0.45
26:2W:222:ASN:O	26:2W:225:ARG:HB3	2.16	0.45
16:3B:85:PHE:HA	16:3B:88:MET:HE3	1.98	0.45
16:3B:218:ILE:HG13	16:3B:259:PHE:CE1	2.52	0.45
21:3L:47:ARG:CZ	21:3L:102:CYS:HB3	2.46	0.45
25:3R:181:PHE:CE2	46:AN:80:PRO:HB3	2.51	0.45
11:3S:144:PRO:HB2	11:3S:159:VAL:HB	1.99	0.45
14:3V:198:PHE:HB3	14:3V:265:VAL:HG13	1.99	0.45
33:4F:168:GLU:HG2	33:4F:169:PHE:N	2.30	0.45
35:4S:162:LEU:HD13	35:4S:165:ILE:HD11	1.98	0.45
35:4S:180:VAL:HA	35:4S:183:TYR:CZ	2.51	0.45
35:4S:187:LEU:HA	35:4S:190:MET:HE3	1.98	0.45
37:5E:148:GLN:O	37:5E:151:GLU:HG3	2.16	0.45
37:5F:11:TRP:HB3	37:5F:14:ARG:NH1	2.32	0.45
37:5F:60:TRP:CZ3	46:OF:279:GLN:HG2	2.51	0.45
37:5G:164:LYS:H	37:5G:165:PRO:HD3	1.82	0.45
37:5H:60:TRP:HA	46:ON:279:GLN:NE2	2.31	0.45
35:5S:162:LEU:HD23	35:5S:217:LEU:HB3	1.98	0.45
41:6H:323:TYR:HB2	41:6H:324:ARG:HD3	1.97	0.45
34:6R:534:HIS:CE1	34:6R:578:TYR:HH	2.33	0.45
44:8R:180:TYR:OH	45:PG:282:TYR:HB2	2.17	0.45
46:AB:156:ARG:NH1	46:AB:162:ARG:O	2.47	0.45
45:AC:115:VAL:O	45:AC:119:LEU:HD23	2.16	0.45
45:AC:282:TYR:O	45:MC:60:LYS:NZ	2.49	0.45
45:AM:276:ILE:HD12	45:AM:281:ALA:HA	1.98	0.45
45:BA:340:THR:HG23	45:BA:341:ILE:HG13	1.98	0.45
45:BC:326:LYS:CE	46:BF:219:THR:HA	2.44	0.45
46:BD:398:TYR:O	46:BD:403:MET:HB2	2.16	0.45
45:BE:88:HIS:ND1	45:BE:90:GLU:HG3	2.31	0.45
46:BF:347:ASN:C	46:BF:347:ASN:HD22	2.24	0.45
45:BG:210:TYR:CE1	46:BH:324:LYS:HE3	2.52	0.45
45:BK:151:SER:O	45:BK:155:GLU:OE1	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BK:397:LEU:HD23	46:BL:346:PRO:HD3	1.98	0.45
46:BL:252:LYS:O	46:BL:256:ASN:ND2	2.50	0.45
46:BN:214:THR:CG2	46:BN:297:LYS:HE2	2.47	0.45
45:CA:67:PHE:HB2	45:CA:92:LEU:HG	1.99	0.45
45:CA:225:THR:C	45:CA:229:ARG:HE	2.25	0.45
46:CB:317:PHE:CE1	46:CB:326:VAL:HG13	2.52	0.45
45:CC:326:LYS:HG3	45:CC:327:ASP:N	2.30	0.45
45:CG:129:CYS:SG	45:CG:130:THR:N	2.89	0.45
45:CG:154:LEU:HD22	45:CG:166:LYS:HD3	1.98	0.45
46:CH:350:LYS:HD3	46:CH:351:SER:N	2.31	0.45
45:CI:335:ILE:HD13	45:CI:338:LYS:HE3	1.98	0.45
45:CI:353:VAL:HG22	46:CJ:177:ASP:HB2	1.98	0.45
46:CL:167:PHE:CE1	46:CL:233:MET:HE1	2.52	0.45
46:CN:282:ARG:NH2	46:CN:292:GLN:OE1	2.45	0.45
46:DB:73:MET:HA	46:DB:76:VAL:HG12	1.98	0.45
45:DG:326:LYS:HZ1	46:DH:219:THR:CA	2.28	0.45
45:DI:174:SER:OG	45:DI:207:GLU:OE1	2.34	0.45
45:DM:208:ALA:O	45:DM:212:ILE:HG12	2.16	0.45
45:EC:329:ASN:HA	45:EC:332:ILE:HG12	1.98	0.45
46:EF:330:MET:HA	46:EF:333:VAL:HG12	1.98	0.45
45:EG:73:THR:O	45:EG:76:ASP:HB2	2.17	0.45
46:EH:293:MET:HG2	46:EH:365:VAL:HG11	1.98	0.45
46:EH:372:THR:HA	46:EH:422:TYR:HE2	1.81	0.45
45:EI:31:GLN:HG3	45:EI:33:ASP:H	1.81	0.45
46:EL:324:LYS:O	46:EL:327:ASP:N	2.50	0.45
45:FA:270:SER:HB2	45:FA:378:ILE:CD1	2.47	0.45
46:FB:3:GLU:CD	46:FB:49:VAL:HA	2.41	0.45
46:FB:404:ASP:OD2	46:FB:406:MET:HE2	2.17	0.45
46:FD:113:ILE:HA	46:FD:116:VAL:HG12	1.97	0.45
46:FD:268:ILE:HG22	46:FD:368:VAL:HG22	1.97	0.45
46:FD:321:MET:N	46:FD:321:MET:SD	2.90	0.45
45:FE:107:HIS:ND1	45:FE:107:HIS:O	2.50	0.45
45:FE:326:LYS:HE3	46:FH:220:PRO:HD2	1.99	0.45
46:FF:210:ILE:O	46:FF:214:THR:HG22	2.16	0.45
45:FG:221:ARG:CZ	46:FH:322:SER:H	2.30	0.45
46:FH:11:GLN:O	46:FH:15:GLN:HG2	2.15	0.45
45:FK:68:LEU:HD21	45:FK:118:CYS:SG	2.57	0.45
46:FL:7:ILE:CG2	46:FL:135:ILE:HG13	2.47	0.45
45:GA:430:LYS:O	45:GA:433:GLU:HG3	2.17	0.45
45:GE:222:PRO:HD2	46:GF:324:LYS:HZ3	1.81	0.45
45:GE:280:LYS:HA	45:GE:283:HIS:HD2	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GF:73:MET:HE1	46:GF:92:PHE:CD1	2.51	0.45
46:GF:391:ARG:HA	46:GF:391:ARG:HD2	1.73	0.45
46:GH:395:LEU:O	46:GH:399:THR:HG23	2.15	0.45
46:GJ:60:VAL:HG21	46:HJ:281:TYR:CE1	2.52	0.45
46:GL:324:LYS:O	46:GL:328:GLU:OE1	2.35	0.45
46:GN:312:THR:HG22	46:GN:370:ASN:HB3	1.97	0.45
45:HA:240:ALA:HA	45:HA:243:ARG:CZ	2.47	0.45
45:HE:313:MET:HE3	45:HE:382:THR:HG22	1.97	0.45
46:HF:152:ILE:HD12	46:HF:164:MET:HE2	1.98	0.45
45:HK:208:ALA:HB2	45:HK:304:LYS:HG3	1.97	0.45
46:HL:32:PRO:HB3	46:HL:81:PHE:HD2	1.81	0.45
46:HN:304:ASP:HB3	46:HN:307:HIS:HE1	1.81	0.45
45:IA:107:HIS:ND1	45:IA:107:HIS:O	2.50	0.45
45:IA:256:GLN:HE21	46:ID:397:TRP:NE1	2.14	0.45
46:IB:130:LEU:HD21	46:IB:133:PHE:HE1	1.81	0.45
45:IC:325:PRO:HG3	45:IC:355:ILE:HD13	1.98	0.45
46:ID:19:LYS:HD3	46:ID:226:ASN:HB2	1.97	0.45
46:ID:284:LEU:HB2	46:ID:362:LYS:NZ	2.31	0.45
46:IF:99:ASN:HA	46:IF:142:GLY:H	1.81	0.45
46:IN:45:GLU:HG3	46:IN:46:ARG:CD	2.47	0.45
46:JB:294:PHE:CD1	46:JB:333:VAL:HG21	2.51	0.45
45:JG:186:ASN:OD1	45:JG:408:TYR:OH	2.32	0.45
45:JG:404:PHE:CD1	46:JH:259:PRO:HA	2.50	0.45
45:JK:88:HIS:HB2	45:JK:91:GLN:HE21	1.81	0.45
45:KC:252:ILE:HD12	45:KC:252:ILE:H	1.81	0.45
45:KI:265:ILE:O	45:KI:265:ILE:HG13	2.15	0.45
45:KK:210:TYR:HH	46:KL:323:THR:HG1	1.61	0.45
45:KM:14:ILE:HD11	45:KM:69:ASP:HB2	1.98	0.45
45:LE:271:SER:HB3	45:LE:377:MET:HB3	1.97	0.45
45:LG:210:TYR:HB3	46:LH:324:LYS:NZ	2.32	0.45
45:LG:434:GLU:O	45:LG:437:ILE:HG12	2.17	0.45
46:LJ:372:THR:HA	46:LJ:422:TYR:HE2	1.81	0.45
46:LL:359:LYS:HB2	46:LL:359:LYS:HE2	1.63	0.45
46:LN:284:LEU:HD23	46:LN:284:LEU:HA	1.86	0.45
46:MB:179:VAL:HG23	46:MB:180:VAL:HG23	1.98	0.45
45:MC:311:LYS:N	45:MC:382:THR:OG1	2.50	0.45
46:MF:328:GLU:OE2	46:MF:329:GLN:HG2	2.16	0.45
46:MH:268:ILE:HG22	46:MH:368:VAL:HG22	1.99	0.45
46:MJ:51:TYR:HE2	46:MJ:61:PRO:HG3	1.82	0.45
46:MJ:156:ARG:NH1	46:MJ:160:PRO:HA	2.32	0.45
45:MK:174:SER:OG	45:MK:207:GLU:HG3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ML:273:LEU:H	46:ML:292:GLN:HE22	1.62	0.45
45:MM:101:ASN:N	46:MN:252:LYS:HZ3	2.14	0.45
46:NB:137:HIS:HE1	46:NB:166:THR:HB	1.82	0.45
46:ND:122:LYS:NZ	46:OD:291:GLN:HB3	2.31	0.45
46:ND:272:PRO:HG3	46:ND:284:LEU:HG	1.99	0.45
46:ND:342:VAL:HG13	46:ND:345:ILE:HG22	1.99	0.45
46:ND:379:LYS:O	46:ND:383:GLU:OE1	2.35	0.45
46:NF:304:ASP:HB3	46:NF:307:HIS:ND1	2.32	0.45
45:NK:285:GLN:OE1	45:NK:373:ARG:NH2	2.48	0.45
45:NK:394:LYS:HZ2	46:NL:346:PRO:HG2	1.80	0.45
46:NL:9:GLY:HA3	46:NL:66:MET:SD	2.56	0.45
46:NN:19:LYS:HA	46:NN:22:GLU:OE2	2.15	0.45
46:NN:342:VAL:HG22	46:NN:344:TRP:CD1	2.52	0.45
45:OA:153:LEU:O	45:OA:157:LEU:HG	2.16	0.45
45:OE:285:GLN:HG3	45:OE:287:SER:HB2	1.98	0.45
45:OI:398:MET:CE	46:OJ:346:PRO:HD2	2.46	0.45
45:OK:152:LEU:O	45:OK:155:GLU:HG3	2.16	0.45
46:ON:239:CYS:SG	46:ON:247:ASN:HA	2.57	0.45
45:PA:377:MET:HE3	45:PA:378:ILE:N	2.31	0.45
46:PD:232:ALA:HB1	46:PD:268:ILE:HD12	1.99	0.45
45:PE:217:LEU:HD12	45:PE:367:ASP:CG	2.42	0.45
45:PI:209:ILE:HG21	45:PI:227:LEU:HG	1.97	0.45
46:PJ:19:LYS:NZ	46:PJ:227:HIS:HB2	2.31	0.45
45:PK:11:GLN:NE2	47:PK:501:GTP:O2A	2.38	0.45
45:PK:205:ASP:OD1	45:PK:303:ALA:HA	2.16	0.45
46:PL:350:LYS:HE2	46:PL:350:LYS:HA	1.99	0.45
45:PM:226:ASN:HA	45:PM:229:ARG:HD2	1.97	0.45
45:QC:256:GLN:CD	46:QD:397:TRP:HE1	2.23	0.45
45:QC:269:LEU:HD23	45:QC:379:SER:O	2.17	0.45
46:QD:167:PHE:CE2	46:QD:200:MET:HG3	2.52	0.45
46:QF:6:HIS:NE2	46:QF:8:GLN:HB3	2.32	0.45
46:QF:252:LYS:HA	45:QG:100:ALA:HB1	1.98	0.45
46:QH:341:PHE:HD2	46:QH:348:ASN:HD21	1.63	0.45
45:QK:314:ALA:HB3	45:QK:380:ASN:OD1	2.15	0.45
46:QL:226:ASN:HA	46:QL:229:VAL:HG12	1.99	0.45
46:QL:266:PHE:CE2	46:QL:370:ASN:HB2	2.52	0.45
45:RC:76:ASP:HA	45:RC:79:ARG:HG2	1.99	0.45
46:RD:258:ILE:O	46:RD:258:ILE:HG13	2.16	0.45
45:RE:138:PHE:HD1	45:RE:169:PHE:HB2	1.81	0.45
45:RG:324:VAL:HG11	45:RG:326:LYS:HZ3	1.82	0.45
45:RI:324:VAL:O	45:RI:328:VAL:HG23	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RJ:31:ASP:OD1	46:RJ:37:HIS:ND1	2.49	0.45
46:RJ:183:TYR:CZ	46:RJ:388:MET:HE3	2.52	0.45
45:RK:206:ASN:HB3	45:RK:210:TYR:CZ	2.51	0.45
45:RK:268:MET:HE2	45:RK:380:ASN:HB2	1.97	0.45
46:RL:23:VAL:O	46:RL:27:GLU:OE1	2.33	0.45
46:RL:183:TYR:HE2	46:RL:394:PHE:HB2	1.82	0.45
46:RL:324:LYS:O	46:RL:327:ASP:OD1	2.35	0.45
45:SC:408:TYR:HB3	45:SC:413:MET:SD	2.56	0.45
45:SE:326:LYS:HG3	45:SE:327:ASP:N	2.32	0.45
46:SF:256:ASN:HD22	46:SF:350:LYS:CD	2.29	0.45
45:SG:7:ILE:HB	45:SG:137:VAL:HG12	1.98	0.45
46:SH:321:MET:HE3	46:SH:321:MET:HB2	1.74	0.45
45:SI:89:PRO:HD2	45:TI:280:LYS:HZ1	1.81	0.45
45:SI:98:ASP:O	45:SI:105:ARG:NH1	2.50	0.45
45:SI:145:THR:HG22	47:SI:501:GTP:PG	2.57	0.45
46:SJ:32:PRO:HA	46:SJ:84:LEU:HD11	1.98	0.45
46:TB:134:GLN:HB3	46:TB:165:GLU:OE2	2.15	0.45
46:TB:164:MET:O	46:TB:197:ASP:HB2	2.16	0.45
45:TE:103:PHE:HB3	45:TE:408:TYR:HE2	1.81	0.45
45:TE:184:PRO:O	45:TE:188:ILE:HG12	2.17	0.45
46:TF:210:ILE:O	46:TF:214:THR:OG1	2.28	0.45
46:TF:213:ARG:O	46:TF:216:LYS:HE3	2.16	0.45
45:TI:311:LYS:N	45:TI:382:THR:OG1	2.49	0.45
46:TN:221:THR:HG23	46:TN:224:ASP:H	1.80	0.45
46:UD:101:TRP:HB3	46:UD:398:TYR:CE1	2.49	0.45
45:UE:211:ASP:OD2	45:UE:304:LYS:NZ	2.42	0.45
46:UF:1:MET:N	46:UF:48:ASN:OD1	2.50	0.45
46:UF:238:CYS:SG	46:UF:239:CYS:N	2.90	0.45
45:UG:260:VAL:HG13	45:UG:265:ILE:O	2.16	0.45
45:UG:268:MET:HG3	45:UG:380:ASN:HB2	1.98	0.45
46:UH:276:ARG:HG2	46:UH:276:ARG:HH11	1.81	0.45
45:UI:207:GLU:HB3	45:UI:304:LYS:HZ1	1.82	0.45
46:UJ:321:MET:HA	45:UK:221:ARG:NH2	2.18	0.45
45:UK:3:GLU:N	45:UK:133:GLN:OE1	2.37	0.45
46:UN:226:ASN:HA	46:UN:229:VAL:HG22	1.98	0.45
45:VA:3:GLU:HG3	45:VA:129:CYS:SG	2.57	0.45
46:VD:267:MET:HE1	46:VD:305:PRO:HB3	1.98	0.45
46:VD:310:TYR:CD1	46:VD:371:SER:HB2	2.52	0.45
45:VE:175:PRO:HG3	45:VE:390:ARG:NH1	2.31	0.45
45:VE:207:GLU:HA	45:VE:210:TYR:CD2	2.50	0.45
45:VE:334:THR:HA	45:VE:337:THR:HG22	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VF:123:GLU:OE1	46:VF:123:GLU:HA	2.16	0.45
45:VG:179:THR:HG22	46:VH:350:LYS:NZ	2.32	0.45
45:VG:414:GLU:OE2	45:VG:417:GLU:N	2.48	0.45
45:VK:286:LEU:HA	45:VK:290:GLU:OE2	2.17	0.45
46:VL:326:VAL:O	46:VL:330:MET:HG2	2.16	0.45
45:VM:403:ALA:HA	46:VN:260:PHE:CE1	2.47	0.45
46:VN:266:PHE:HE1	46:VN:370:ASN:HD22	1.64	0.45
46:VN:285:THR:HB	46:VN:287:PRO:HD2	1.97	0.45
46:VN:398:TYR:O	46:VN:403:MET:HE2	2.16	0.45
45:WG:74:VAL:HA	45:WG:77:GLU:CD	2.41	0.45
46:WJ:67:ASP:OD1	46:WJ:68:LEU:N	2.48	0.45
46:WL:47:ILE:HD12	46:WL:59:TYR:HE1	1.80	0.45
46:WN:421:GLU:HA	46:WN:424:GLN:HG2	1.97	0.45
1:0A:46:LYS:HE2	34:7R:67:TYR:CD2	2.52	0.45
3:0C:94:GLY:HA2	3:0C:97:LYS:NZ	2.31	0.45
8:0H:358:GLU:HA	8:0H:361:ARG:NH1	2.31	0.45
10:0Q:73:LEU:HB2	10:0Q:167:PHE:CD1	2.46	0.45
13:0U:469:ALA:O	13:0U:492:LEU:HA	2.17	0.45
16:1B:1:MET:HG2	46:LD:359:LYS:HA	1.98	0.45
5:1E:42:LYS:HE3	5:1E:83:GLU:HG2	1.98	0.45
8:1H:78:LYS:O	8:1H:81:MET:HG2	2.17	0.45
8:1H:212:ILE:O	8:1H:215:GLN:HG3	2.16	0.45
18:1I:164:ARG:NH1	18:1I:164:ARG:HA	2.31	0.45
20:1K:164:ILE:HA	20:1K:167:MET:HE2	1.99	0.45
21:1L:285:ARG:NH2	46:BH:363:MET:HE3	2.31	0.45
21:1L:421:GLN:HG3	21:1L:423:TYR:CE1	2.52	0.45
9:1N:88:ASN:OD1	9:1N:90:TRP:HB2	2.16	0.45
25:1R:401:LYS:HD2	25:1R:402:PRO:HD2	1.98	0.45
11:1S:227:ILE:O	11:1S:231:LEU:HD23	2.16	0.45
12:1T:25:GLN:HG3	12:1T:163:VAL:HG21	1.97	0.45
12:1T:228:PRO:O	12:1T:229:THR:OG1	2.32	0.45
13:1U:323:ILE:HD12	13:1U:323:ILE:H	1.80	0.45
13:1U:593:VAL:HG12	13:1U:599:ILE:HD12	1.99	0.45
15:1X:5:LYS:HB3	15:1X:7:SER:O	2.16	0.45
4:2D:116:LEU:HD22	4:2D:120:MET:O	2.17	0.45
28:2F:62:ASP:HA	28:2F:65:LEU:HD23	1.98	0.45
31:2I:60:PHE:HD1	31:2I:65:LEU:HD13	1.82	0.45
23:2O:156:ARG:CZ	45:VK:278:ALA:H	2.30	0.45
24:2P:397:VAL:O	24:2P:401:MET:HG2	2.17	0.45
12:2T:8:GLU:OE2	12:2T:8:GLU:HA	2.16	0.45
12:2T:48:THR:O	12:2T:52:ILE:HD12	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:2V:22:ARG:O	14:2V:22:ARG:NE	2.50	0.45
26:2W:225:ARG:HG2	26:2W:229:LYS:NZ	2.31	0.45
16:3B:202:VAL:HG12	16:3B:266:LYS:HG2	1.99	0.45
32:3D:34:ASN:HD21	32:3D:65:GLY:HA2	1.80	0.45
5:3E:171:VAL:HG12	5:3E:181:PHE:HZ	1.81	0.45
21:3L:36:LYS:HA	21:3L:39:VAL:HG12	1.97	0.45
21:3L:84:SER:O	21:3L:88:LYS:HG3	2.17	0.45
23:3O:395:PHE:CZ	23:3O:399:ILE:HD11	2.52	0.45
11:3S:227:ILE:O	11:3S:231:LEU:HD23	2.16	0.45
12:3T:185:LEU:HB2	12:3T:196:VAL:CG1	2.46	0.45
15:3X:45:GLN:HE22	45:MM:282:TYR:HB3	1.82	0.45
34:4R:107:PRO:HA	46:BH:360:GLY:HA3	1.97	0.45
34:4R:394:GLU:H	34:4R:394:GLU:CD	2.24	0.45
15:4X:3:ARG:H	46:LL:75:SER:HB2	1.82	0.45
36:5C:32:ALA:O	36:5C:34:PHE:N	2.49	0.45
36:5C:54:ARG:HD3	36:5C:55:ALA:O	2.17	0.45
36:5C:146:VAL:HG11	45:NK:225:THR:HG21	1.99	0.45
36:5C:158:ASN:ND2	45:KK:386:GLU:OE2	2.38	0.45
37:5E:118:PRO:O	37:5E:124:TYR:OH	2.34	0.45
37:5F:129:ARG:NH2	37:5F:130:PRO:HD2	2.32	0.45
37:5F:179:TYR:CD1	45:KG:410:GLY:HA2	2.47	0.45
37:5G:120:GLU:OE1	37:5G:121:GLU:HG2	2.17	0.45
37:5H:85:GLN:OE1	37:5H:87:LEU:HG	2.17	0.45
34:5R:311:LYS:HA	34:5R:329:TYR:CE1	2.51	0.45
10:6Q:33:HIS:NE2	10:6Q:50:MET:HB3	2.31	0.45
34:6R:167:VAL:HG21	34:6R:201:PRO:HB3	1.97	0.45
46:AH:290:THR:O	46:AH:293:MET:HB3	2.17	0.45
46:AL:199:CYS:HB3	46:AL:265:PHE:HD2	1.81	0.45
45:AM:2:ARG:HD3	45:AM:2:ARG:H	1.81	0.45
45:AM:321:GLY:HA3	45:AM:372:MET:O	2.16	0.45
46:BB:240:LEU:HD11	46:BB:250:LEU:HG	1.99	0.45
45:BE:251:ASP:OD1	45:BE:254:GLU:HG2	2.16	0.45
46:BF:391:ARG:HA	46:BF:391:ARG:HD2	1.76	0.45
45:BG:109:THR:HG22	45:BG:110:ILE:HG23	1.98	0.45
45:BI:88:HIS:ND1	45:BI:90:GLU:HG3	2.32	0.45
46:BJ:6:HIS:CD2	46:BJ:21:TRP:HE1	2.35	0.45
46:BJ:204:ASN:OD1	49:BJ:501:GDP:O2'	2.34	0.45
45:BK:347:CYS:HA	46:BN:388:MET:HE1	1.98	0.45
46:BL:3:GLU:HG3	46:BL:62:ARG:NH1	2.31	0.45
45:BM:51:THR:HG22	45:BM:52:PHE:CD2	2.51	0.45
45:BM:208:ALA:HB2	45:BM:304:LYS:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:191:GLN:OE1	46:BN:191:GLN:N	2.49	0.45
46:CB:130:LEU:HD11	46:CB:133:PHE:CE2	2.52	0.45
45:CI:3:GLU:OE2	45:CI:129:CYS:HB2	2.16	0.45
46:CJ:137:HIS:NE2	46:CJ:168:SER:OG	2.44	0.45
45:CM:426:ALA:HB1	45:CM:430:LYS:HZ1	1.81	0.45
45:DG:5:ILE:HB	45:DG:135:PHE:CD1	2.52	0.45
46:DH:174:LYS:N	46:DH:205:GLU:OE2	2.48	0.45
46:DL:6:HIS:O	46:DL:63:ALA:HA	2.17	0.45
46:EB:318:ARG:HB3	46:EB:358:PRO:HD3	1.98	0.45
45:EC:89:PRO:HG2	45:EC:90:GLU:OE1	2.16	0.45
45:EC:315:CYS:SG	45:EC:377:MET:HB2	2.56	0.45
46:ED:16:ILE:HD13	46:ED:226:ASN:OD1	2.17	0.45
45:EE:345:ASP:OD2	45:EE:346:TRP:N	2.50	0.45
46:EF:15:GLN:NE2	49:EF:501:GDP:C6	2.85	0.45
46:EF:22:GLU:HG2	46:EF:81:PHE:HD2	1.81	0.45
46:EL:12:CYS:SG	46:EL:138:SER:N	2.90	0.45
45:FC:135:PHE:HB2	45:FC:166:LYS:HG2	1.99	0.45
46:FD:143:THR:O	46:FD:147:MET:SD	2.75	0.45
45:FE:71:GLU:HB2	45:FE:98:ASP:HB2	1.98	0.45
45:FE:102:ASN:ND2	45:FE:105:ARG:HG3	2.32	0.45
45:FG:183:GLU:N	45:FG:184:PRO:HD2	2.31	0.45
46:FH:8:GLN:NE2	46:FH:14:ASN:HA	2.30	0.45
45:FK:395:PHE:CD1	45:FK:422:ARG:HD3	2.51	0.45
46:FL:254:ALA:O	46:FL:258:ILE:HG12	2.17	0.45
45:FM:8:HIS:HB2	45:FM:67:PHE:CD1	2.51	0.45
45:FM:101:ASN:HA	45:FM:144:GLY:H	1.81	0.45
45:FM:387:VAL:HA	45:FM:390:ARG:HG2	1.99	0.45
45:GA:265:ILE:HG22	45:GA:380:ASN:HD21	1.80	0.45
45:GA:401:LYS:HB2	45:GA:401:LYS:HE3	1.83	0.45
46:GD:114:ASP:O	46:GD:117:LEU:HG	2.16	0.45
45:GE:336:LYS:HZ2	45:GE:349:THR:HA	1.82	0.45
45:GI:296:PHE:HE2	45:GI:335:ILE:HG21	1.82	0.45
45:GK:97:GLU:HG2	45:GK:105:ARG:HH22	1.82	0.45
45:GK:322:ASP:OD2	45:GK:322:ASP:N	2.46	0.45
46:GL:7:ILE:HG12	46:GL:64:ILE:HB	1.98	0.45
46:GL:288:GLU:O	46:GL:291:GLN:HG3	2.17	0.45
46:GN:116:VAL:HA	46:GN:119:VAL:HG12	1.99	0.45
45:HC:32:PRO:HB3	45:HC:83:TYR:CE1	2.51	0.45
45:HG:414:GLU:CD	45:HG:416:GLY:H	2.24	0.45
46:HJ:6:HIS:NE2	46:HJ:8:GLN:HB3	2.31	0.45
46:HJ:105:HIS:CE1	46:HJ:150:LEU:HD12	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HK:11:GLN:HE21	45:HK:15:GLN:NE2	2.15	0.45
45:IA:194:LEU:HB2	45:IA:198:THR:OG1	2.17	0.45
45:IE:19:ALA:HA	45:IE:22:GLU:OE1	2.16	0.45
46:IH:206:ALA:O	46:IH:210:ILE:HG12	2.17	0.45
46:IH:395:LEU:O	46:IH:399:THR:HG23	2.17	0.45
46:IJ:341:PHE:HD2	46:IJ:348:ASN:HD21	1.65	0.45
46:IL:141:GLY:O	46:IL:145:SER:HB2	2.16	0.45
46:IN:165:GLU:HG2	46:IN:198:GLU:HB2	1.99	0.45
45:JA:318:MET:HB2	45:JA:376:CYS:SG	2.57	0.45
45:JG:245:ASP:OD2	45:JG:246:GLY:N	2.49	0.45
45:JI:419:SER:O	45:JI:423:GLU:HG2	2.16	0.45
45:JK:294:SER:HA	45:JK:297:GLU:HG2	1.97	0.45
46:JL:217:LEU:HD23	46:JL:217:LEU:H	1.82	0.45
45:JM:185:TYR:CZ	45:JM:398:MET:HE2	2.51	0.45
45:KA:4:VAL:HG12	45:KA:133:GLN:HB2	1.99	0.45
45:KA:370:LYS:HE2	45:KA:370:LYS:HA	1.99	0.45
45:KE:88:HIS:ND1	45:KE:89:PRO:HD2	2.31	0.45
45:KE:179:THR:O	46:KF:350:LYS:HA	2.16	0.45
45:KK:284:GLU:OE1	45:KK:286:LEU:HD22	2.15	0.45
46:KL:238:CYS:SG	46:KL:239:CYS:N	2.90	0.45
45:LA:263:PRO:HD3	46:LD:396:HIS:CE1	2.51	0.45
46:LB:8:GLN:OE1	46:LB:17:GLY:HA3	2.17	0.45
46:LD:257:LEU:HD12	46:LD:312:THR:OG1	2.16	0.45
45:LE:252:ILE:HD12	45:LE:252:ILE:H	1.82	0.45
45:LE:407:TRP:CZ3	46:LF:255:VAL:HA	2.51	0.45
46:LJ:10:GLY:O	46:LJ:14:ASN:ND2	2.41	0.45
45:LK:231:ILE:O	45:LK:235:ILE:HG12	2.17	0.45
45:MA:298:PRO:O	45:MA:301:MET:HG2	2.17	0.45
46:ML:68:LEU:HD23	46:ML:143:THR:OG1	2.16	0.45
46:ML:380:ARG:HA	46:ML:383:GLU:HG2	1.97	0.45
46:ML:395:LEU:HD21	46:ML:405:GLU:HG3	1.98	0.45
46:MN:161:ASP:OD2	46:MN:161:ASP:N	2.44	0.45
45:NA:180:ALA:HB3	45:NA:183:GLU:HB3	1.97	0.45
45:NA:192:HIS:HE1	45:NA:424:ASP:OD2	1.98	0.45
45:NA:396:ASP:HB2	45:NA:422:ARG:NH2	2.31	0.45
46:NB:20:PHE:CD1	46:NB:233:MET:HE2	2.52	0.45
45:NC:241:SER:OG	45:NC:250:VAL:O	2.26	0.45
46:ND:263:LEU:HD22	46:ND:422:TYR:CD1	2.50	0.45
46:NF:254:ALA:O	46:NF:258:ILE:HG22	2.17	0.45
46:NJ:47:ILE:HG21	46:NJ:59:TYR:CD1	2.51	0.45
45:NM:121:ARG:HH11	45:NM:124:LYS:NZ	2.14	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NM:405:VAL:O	45:NM:409:VAL:HG23	2.17	0.45
46:NN:324:LYS:O	46:NN:328:GLU:HG3	2.17	0.45
45:OE:377:MET:HE1	45:OE:379:SER:HB3	1.99	0.45
45:OG:331:SER:O	45:OG:335:ILE:HG12	2.17	0.45
46:OJ:404:ASP:N	46:OJ:404:ASP:OD1	2.47	0.45
45:OM:242:LEU:HD11	45:OM:252:ILE:HG23	1.97	0.45
45:PA:60:LYS:HE3	45:PA:85:GLN:O	2.16	0.45
45:PA:434:GLU:O	45:PA:437:ILE:HG12	2.17	0.45
46:PB:289:LEU:HD11	46:PB:363:MET:HB3	1.96	0.45
46:PD:229:VAL:O	46:PD:233:MET:HG2	2.16	0.45
45:PE:96:LYS:HA	46:PF:1:MET:HE1	1.98	0.45
45:PG:328:VAL:O	45:PG:332:ILE:HG12	2.16	0.45
46:PH:3:GLU:OE1	46:PH:3:GLU:N	2.43	0.45
45:PK:200:VAL:HG23	45:PK:256:GLN:NE2	2.32	0.45
46:QB:101:TRP:HZ2	46:QB:191:GLN:NE2	2.14	0.45
46:QB:212:PHE:HB3	46:QB:213:ARG:NH2	2.32	0.45
46:QB:252:LYS:HA	45:QC:100:ALA:HB1	1.97	0.45
46:QB:258:ILE:HD11	45:QC:407:TRP:CZ2	2.51	0.45
46:QH:130:LEU:HB3	46:QH:162:ARG:HE	1.81	0.45
46:QJ:284:LEU:HD11	46:QJ:362:LYS:HB3	1.98	0.45
45:QK:288:VAL:HA	45:QK:291:ILE:HG12	1.98	0.45
46:QL:21:TRP:CH2	46:QL:61:PRO:HB3	2.51	0.45
45:QM:328:VAL:HG11	45:QM:353:VAL:HG21	1.98	0.45
45:QM:377:MET:SD	45:QM:379:SER:HB3	2.57	0.45
45:RA:21:TRP:CZ2	45:RA:65:ALA:HB2	2.51	0.45
45:RE:195:LEU:HD21	45:RE:428:LEU:HD21	1.98	0.45
46:RF:251:ARG:HE	45:RG:105:ARG:HH22	1.65	0.45
46:RH:210:ILE:O	46:RH:214:THR:HG22	2.16	0.45
45:RI:121:ARG:NE	45:RI:121:ARG:HA	2.31	0.45
45:RK:107:HIS:ND1	45:RK:107:HIS:O	2.50	0.45
45:RM:74:VAL:O	45:RM:78:VAL:HG23	2.16	0.45
45:RM:105:ARG:O	45:RM:109:THR:OG1	2.24	0.45
45:RM:185:TYR:O	45:RM:188:ILE:HG22	2.17	0.45
46:RN:372:THR:HA	46:RN:422:TYR:HE2	1.82	0.45
45:SA:140:SER:OG	47:SA:501:GTP:O2B	2.35	0.45
45:SC:263:PRO:HD3	46:SD:396:HIS:CE1	2.51	0.45
46:SD:5:VAL:HG23	46:SD:7:ILE:HD11	1.98	0.45
46:SF:166:THR:HG1	46:SF:199:CYS:HG	1.59	0.45
45:SG:5:ILE:HB	45:SG:135:PHE:CD1	2.52	0.45
45:SG:93:ILE:HG22	45:SG:114:ILE:HD11	1.98	0.45
45:SK:333:ALA:O	45:SK:337:THR:HG23	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TD:16:ILE:HD13	46:TD:226:ASN:OD1	2.17	0.45
46:TD:229:VAL:HG22	46:TD:233:MET:HE2	1.98	0.45
45:TG:280:LYS:HA	45:TG:283:HIS:ND1	2.31	0.45
45:TK:274:PRO:HG3	45:TK:286:LEU:HD12	1.97	0.45
46:TL:67:ASP:OD1	46:TL:68:LEU:N	2.48	0.45
46:TN:87:PRO:HA	46:TN:90:PHE:HD2	1.82	0.45
46:TN:201:VAL:HG23	46:TN:301:CYS:SG	2.57	0.45
45:UA:280:LYS:HD3	45:UA:280:LYS:HA	1.72	0.45
46:UB:113:ILE:HA	46:UB:116:VAL:HG22	1.99	0.45
46:UB:211:CYS:HA	46:UB:215:LEU:HD12	1.98	0.45
46:UB:226:ASN:HA	46:UB:229:VAL:HG22	1.98	0.45
46:UD:399:THR:HA	46:UD:403:MET:O	2.16	0.45
46:UH:179:VAL:HG23	46:UH:180:VAL:HG23	1.98	0.45
45:UI:19:ALA:HA	45:UI:22:GLU:OE1	2.16	0.45
45:UK:70:LEU:HD13	45:UK:95:GLY:HA3	1.97	0.45
45:UK:221:ARG:N	45:UK:222:PRO:HD3	2.32	0.45
46:UL:345:ILE:HA	45:UM:398:MET:HE1	1.98	0.45
45:UM:422:ARG:HE	45:UM:423:GLU:HG3	1.81	0.45
46:VB:121:ARG:O	46:VB:124:ALA:N	2.50	0.45
46:VD:181:GLU:HB2	46:VD:182:PRO:HD3	1.99	0.45
45:VG:121:ARG:HA	45:VG:121:ARG:HD2	1.77	0.45
46:VJ:116:VAL:HA	46:VJ:119:VAL:HG12	1.97	0.45
46:VJ:326:VAL:O	46:VJ:330:MET:HG2	2.17	0.45
45:VK:8:HIS:HB2	45:VK:67:PHE:CD2	2.51	0.45
45:VK:183:GLU:N	45:VK:184:PRO:HD2	2.31	0.45
45:VK:210:TYR:CE2	46:VL:324:LYS:HB3	2.52	0.45
45:VK:430:LYS:HA	45:VK:433:GLU:HG3	1.99	0.45
46:VL:310:TYR:CD1	46:VL:371:SER:HB2	2.51	0.45
46:VN:377:MET:HG2	46:VN:380:ARG:HH21	1.82	0.45
45:WA:155:GLU:HB3	45:WA:156:ARG:NH2	2.32	0.45
46:WB:200:MET:CE	46:WB:266:PHE:HB2	2.47	0.45
45:WC:245:ASP:OD1	45:WC:245:ASP:N	2.49	0.45
45:WG:118:CYS:SG	45:WG:153:LEU:HD11	2.57	0.45
45:WI:268:MET:HE3	45:WI:378:ILE:HG22	1.98	0.45
45:WM:5:ILE:HD12	45:WM:64:ARG:HD2	1.98	0.45
45:WM:121:ARG:HH21	45:WM:124:LYS:HD2	1.82	0.45
46:WN:282:ARG:NH2	46:WN:284:LEU:HA	2.31	0.45
45:CE:234:VAL:HG21	45:CE:302:MET:HE2	1.98	0.45
45:DC:17:GLY:HA2	45:DC:20:CYS:SG	2.56	0.45
1:0A:136:ASN:HD22	46:AB:245:GLN:HE22	1.64	0.45
2:0B:161:PHE:CD2	9:1N:35:LYS:HD3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:0G:101:TYR:CE2	46:JN:40:SER:HB3	2.51	0.45
9:0N:246:THR:HG22	45:KK:47:ASP:HA	1.99	0.45
10:0Q:17:ILE:HA	46:WB:125:GLU:OE2	2.16	0.45
11:0S:127:ARG:HB2	11:0S:221:THR:HA	1.98	0.45
1:1A:87:LYS:C	1:1A:89:ALA:H	2.24	0.45
3:1C:51:ASN:CA	45:EM:221:ARG:HH22	2.28	0.45
8:1H:107:ALA:O	8:1H:111:GLU:HG2	2.16	0.45
8:1H:116:LYS:O	8:1H:120:GLU:HG2	2.17	0.45
19:1J:396:GLN:NE2	19:1J:401:SER:O	2.50	0.45
20:1K:238:LYS:HB3	20:1K:242:LYS:HZ3	1.81	0.45
21:1L:89:TYR:HE2	21:1L:101:PHE:HD1	1.65	0.45
21:1L:753:ARG:HB2	46:BD:362:LYS:HZ2	1.81	0.45
21:1L:901:LYS:H	46:CB:320:ARG:NH1	2.14	0.45
24:1P:248:LYS:NZ	46:TF:280:GLN:HB2	2.31	0.45
11:1S:145:ILE:HD12	11:1S:188:LEU:HD12	1.98	0.45
13:1U:3:LYS:HD2	13:1U:569:TYR:CE1	2.52	0.45
13:1U:73:GLY:HA3	13:1U:105:ILE:HD11	1.98	0.45
13:1U:75:LYS:HB3	13:1U:104:LEU:CD1	2.45	0.45
13:1U:495:GLN:O	13:1U:508:THR:HG22	2.16	0.45
27:2C:64:PHE:CE2	27:2C:66:LEU:HD11	2.51	0.45
4:2D:20:LYS:NZ	46:CJ:55:THR:HA	2.31	0.45
29:2G:73:LYS:HA	22:2M:287:VAL:HG11	1.98	0.45
21:2L:630:HIS:O	21:2L:634:ARG:HG2	2.15	0.45
21:2L:826:LYS:HE2	21:2L:826:LYS:HB3	1.70	0.45
22:2M:180:LEU:O	22:2M:184:GLU:HG2	2.17	0.45
9:2N:50:ARG:HB2	9:2N:90:TRP:CE2	2.51	0.45
23:2O:128:ARG:O	23:2O:131:GLU:HG3	2.17	0.45
23:2O:173:GLU:HA	23:2O:176:ARG:CD	2.47	0.45
24:2P:420:ARG:HG3	24:2P:423:GLN:HE21	1.80	0.45
25:2R:381:PRO:C	46:EH:276:ARG:HH22	2.25	0.45
25:2R:448:VAL:HG21	25:2R:464:LEU:HD12	1.99	0.45
11:2S:176:ASP:OD1	11:2S:214:PRO:HB3	2.16	0.45
11:2S:285:ASP:O	11:2S:289:GLU:OE1	2.34	0.45
26:2W:225:ARG:HG2	26:2W:229:LYS:HZ2	1.80	0.45
27:3C:159:LYS:HD3	27:3C:163:GLY:HA2	1.98	0.45
32:3D:110:LYS:HA	32:3D:110:LYS:HE2	1.98	0.45
21:3L:163:ARG:NH2	45:BA:79:ARG:HG3	2.31	0.45
25:3R:283:ARG:HH21	45:CK:46:ASP:H	1.64	0.45
13:3U:42:HIS:HE1	13:3U:44:ILE:HB	1.81	0.45
27:4C:7:GLY:HA2	27:4C:10:VAL:HG12	1.99	0.45
27:4C:227:GLY:HA2	45:KM:221:ARG:NH1	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4Q:133:GLN:O	10:4Q:133:GLN:HG2	2.15	0.45
15:4X:131:MET:HA	15:4X:134:THR:HG22	1.99	0.45
36:5A:27:LYS:HD2	36:5A:30:LYS:HD3	1.99	0.45
36:5A:172:LEU:HD22	36:5A:175:LYS:HZ1	1.81	0.45
37:5E:91:ASN:OD1	37:5E:92:GLN:N	2.49	0.45
37:5F:85:GLN:OE1	37:5F:87:LEU:HG	2.16	0.45
10:5Q:97:LYS:O	10:5Q:99:VAL:N	2.46	0.45
34:5R:219:LYS:NZ	46:BL:75:SER:HB2	2.32	0.45
41:6H:352:LYS:HD2	41:6H:353:ALA:H	1.82	0.45
44:8R:288:TYR:OH	45:PC:279:GLU:N	2.50	0.45
45:AC:317:MET:HE2	45:AC:317:MET:HB3	1.80	0.45
46:AJ:49:VAL:HG12	46:AJ:50:TYR:CD1	2.51	0.45
46:AL:16:ILE:HD13	46:AL:226:ASN:OD1	2.17	0.45
46:AN:31:ASP:OD2	46:AN:33:THR:OG1	2.34	0.45
45:BA:221:ARG:NE	46:BB:325:GLU:HB2	2.32	0.45
45:BC:56:THR:OG1	45:CC:282:TYR:O	2.34	0.45
45:BC:326:LYS:HB2	45:BC:326:LYS:HE2	1.75	0.45
46:BJ:60:VAL:HG11	46:BJ:86:ARG:HH21	1.81	0.45
46:BL:99:ASN:HA	46:BL:142:GLY:H	1.81	0.45
46:BL:301:CYS:HB3	46:BL:377:MET:HE1	1.97	0.45
46:BL:391:ARG:HA	46:BL:391:ARG:HD2	1.75	0.45
46:BN:299:MET:HA	46:BN:299:MET:HE2	1.97	0.45
45:CC:69:ASP:OD1	45:CC:70:LEU:N	2.49	0.45
45:CC:345:ASP:OD2	45:CC:346:TRP:N	2.50	0.45
46:CD:77:ARG:NH2	46:CD:83:GLN:OE1	2.46	0.45
46:CF:70:PRO:HA	46:CF:73:MET:SD	2.57	0.45
46:CF:386:THR:O	46:CF:390:ARG:HG2	2.16	0.45
46:CH:31:ASP:OD1	46:CH:35:THR:N	2.42	0.45
46:CJ:391:ARG:HA	46:CJ:391:ARG:HD2	1.81	0.45
46:CN:201:VAL:HG23	46:CN:301:CYS:SG	2.56	0.45
45:DA:171:ILE:HG23	45:DA:204:LEU:O	2.16	0.45
46:DD:247:ASN:ND2	45:DE:73:THR:HG21	2.31	0.45
45:DE:10:GLY:O	45:DE:14:ILE:HD12	2.16	0.45
46:DF:257:LEU:HD11	46:DF:314:SER:HB2	1.98	0.45
45:DG:141:VAL:HG11	45:DG:172:TYR:HA	1.98	0.45
45:DG:227:LEU:O	45:DG:231:ILE:HG12	2.16	0.45
45:DI:439:THR:HB	46:DJ:390:ARG:NH1	2.31	0.45
46:DL:165:GLU:HG2	46:DL:198:GLU:HB2	1.98	0.45
46:DL:226:ASN:HA	46:DL:229:VAL:HG22	1.98	0.45
46:DL:252:LYS:HA	45:DM:100:ALA:HB1	1.99	0.45
45:DM:145:THR:HG22	47:DM:501:GTP:PG	2.56	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EA:346:TRP:CD1	46:EB:391:ARG:HG3	2.51	0.45
46:EB:6:HIS:O	46:EB:63:ALA:HA	2.16	0.45
46:EB:25:SER:HB3	46:EB:30:ILE:HB	1.98	0.45
45:EE:101:ASN:HA	45:EE:144:GLY:H	1.81	0.45
46:EF:327:ASP:OD1	46:EF:328:GLU:N	2.49	0.45
45:EG:265:ILE:HG22	45:EG:380:ASN:HD21	1.81	0.45
45:EG:434:GLU:O	45:EG:437:ILE:HG22	2.17	0.45
45:FA:183:GLU:N	45:FA:184:PRO:HD2	2.31	0.45
45:FC:84:ARG:HG3	45:FC:84:ARG:HH11	1.82	0.45
45:FC:260:VAL:HG23	46:FF:397:TRP:CZ2	2.52	0.45
46:FH:12:CYS:O	46:FH:16:ILE:HG12	2.16	0.45
46:FJ:83:GLN:O	46:GJ:281:TYR:OH	2.33	0.45
46:FN:101:TRP:CE3	46:FN:187:LEU:HD13	2.52	0.45
46:FN:389:PHE:HZ	46:FN:405:GLU:HB2	1.80	0.45
45:GA:174:SER:HB2	45:GA:177:VAL:O	2.16	0.45
46:GD:238:CYS:SG	46:GD:239:CYS:N	2.90	0.45
46:GD:317:PHE:CD1	46:GD:365:VAL:HG22	2.52	0.45
45:GK:284:GLU:HG2	45:GK:286:LEU:H	1.82	0.45
45:GM:322:ASP:OD1	45:GM:373:ARG:NH1	2.45	0.45
46:GN:117:LEU:HD13	46:GN:121:ARG:HH22	1.81	0.45
46:HB:257:LEU:HD11	46:HB:314:SER:HB2	1.98	0.45
46:HB:268:ILE:HG22	46:HB:368:VAL:HG12	1.98	0.45
46:HD:294:PHE:CE2	46:HD:333:VAL:HG11	2.52	0.45
45:HE:398:MET:CE	46:HF:346:PRO:HD2	2.47	0.45
45:HG:222:PRO:HG2	46:HH:324:LYS:HE2	1.99	0.45
45:HG:311:LYS:NZ	45:HG:342:GLN:HB3	2.31	0.45
46:HH:6:HIS:O	46:HH:63:ALA:HA	2.15	0.45
46:HJ:86:ARG:HB3	46:HJ:89:ASN:OD1	2.17	0.45
45:HK:224:TYR:HE2	46:HL:323:THR:HG21	1.81	0.45
46:HL:306:ARG:HB2	46:HL:340:TYR:HE2	1.81	0.45
46:HN:312:THR:HG22	46:HN:370:ASN:HB3	1.98	0.45
45:IC:329:ASN:O	45:IC:332:ILE:HG22	2.17	0.45
46:ID:39:ASP:OD2	46:ID:40:SER:N	2.50	0.45
45:IE:288:VAL:HA	45:IE:291:ILE:HG12	1.98	0.45
46:IJ:26:ASP:OD1	46:IJ:359:LYS:NZ	2.41	0.45
45:IK:276:ILE:HG12	45:IK:281:ALA:HB2	1.99	0.45
45:IK:377:MET:SD	45:IK:379:SER:HB3	2.57	0.45
46:JB:21:TRP:HA	46:JB:24:ILE:HG22	1.97	0.45
46:JB:73:MET:HE1	46:JB:91:VAL:O	2.16	0.45
45:JC:175:PRO:HG2	45:JC:304:LYS:HG2	1.99	0.45
46:JD:21:TRP:CZ3	46:JD:61:PRO:HB3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JF:105:HIS:CE1	46:JF:150:LEU:HD12	2.51	0.45
46:JF:150:LEU:O	46:JF:153:SER:OG	2.30	0.45
46:JF:222:TYR:HD2	49:JF:501:GDP:C6	2.35	0.45
46:JF:322:SER:OG	46:JF:325:GLU:OE2	2.32	0.45
45:JG:217:LEU:HB3	45:JG:219:ILE:HG12	1.97	0.45
45:JI:69:ASP:OD1	45:JI:70:LEU:N	2.49	0.45
46:JJ:161:ASP:OD1	46:JJ:162:ARG:HG2	2.17	0.45
46:JL:282:ARG:NH2	46:JL:288:GLU:OE1	2.48	0.45
46:JL:386:THR:O	46:JL:390:ARG:HG3	2.16	0.45
46:KB:322:SER:OG	46:KB:325:GLU:OE1	2.33	0.45
45:KG:221:ARG:HA	46:KH:324:LYS:HE2	1.97	0.45
46:KH:52:ASN:OD1	46:KH:62:ARG:NH2	2.50	0.45
46:KH:289:LEU:HD13	46:KH:365:VAL:HG23	1.97	0.45
45:KI:68:LEU:HD13	45:KI:93:ILE:HB	1.98	0.45
46:KJ:389:PHE:CE1	46:KJ:395:LEU:HD11	2.52	0.45
45:KM:102:ASN:ND2	45:KM:105:ARG:HG3	2.32	0.45
45:LC:205:ASP:OD1	45:LC:206:ASN:N	2.50	0.45
45:LE:275:ILE:HG23	45:LE:275:ILE:O	2.17	0.45
45:LE:298:PRO:HB3	45:LE:307:PRO:HD2	1.98	0.45
46:LH:237:THR:HG23	46:LH:241:ARG:HH21	1.80	0.45
46:LL:222:TYR:HD2	49:LL:501:GDP:C6	2.34	0.45
45:LM:224:TYR:HD1	45:LM:227:LEU:HD12	1.82	0.45
45:MA:135:PHE:HB2	45:MA:166:LYS:HG2	1.99	0.45
45:MC:17:GLY:HA2	45:MC:20:CYS:SG	2.56	0.45
46:MD:207:LEU:HD13	46:MD:225:LEU:HB3	1.98	0.45
45:MK:326:LYS:HE3	46:MN:220:PRO:HG2	1.99	0.45
45:MM:88:HIS:CE1	45:MM:90:GLU:HG2	2.52	0.45
46:ND:372:THR:HA	46:ND:422:TYR:CE2	2.52	0.45
45:NE:3:GLU:OE2	45:NE:131:GLY:N	2.49	0.45
45:NE:259:LEU:HD21	45:NE:316:SER:OG	2.16	0.45
45:NG:237:SER:HA	45:NG:320:ARG:HH11	1.82	0.45
45:NI:47:ASP:CG	45:NI:50:ASN:HB2	2.41	0.45
46:NJ:9:GLY:HA2	46:NJ:66:MET:O	2.17	0.45
45:NM:431:ASP:HA	45:NM:434:GLU:HG2	1.98	0.45
45:OA:414:GLU:HB3	45:OA:417:GLU:OE1	2.16	0.45
46:OB:1:MET:HG3	46:OB:2:ARG:HG3	1.99	0.45
46:OB:119:VAL:O	46:OB:123:GLU:OE1	2.34	0.45
45:OC:320:ARG:HB2	45:OC:358:GLN:O	2.17	0.45
46:OD:379:LYS:O	46:OD:383:GLU:OE1	2.34	0.45
45:OG:350:GLY:HA2	46:OJ:179:VAL:HG23	1.98	0.45
45:OG:387:VAL:HA	45:OG:390:ARG:HG2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OJ:186:THR:HA	46:OJ:189:VAL:HG12	1.97	0.45
45:OK:188:ILE:HG21	45:OK:395:PHE:CD1	2.52	0.45
45:OK:191:THR:HG23	45:OK:425:LEU:HD21	1.99	0.45
46:OL:9:GLY:HA2	46:OL:66:MET:O	2.17	0.45
45:PA:201:ALA:HB3	45:PA:267:PHE:CD1	2.52	0.45
46:PB:163:ILE:HG21	46:PB:251:ARG:HB3	1.99	0.45
45:PI:54:SER:HB3	45:PI:64:ARG:NH1	2.32	0.45
45:PI:167:LEU:HD22	45:PI:200:VAL:HB	1.99	0.45
46:PJ:41:ASP:OD1	46:PJ:42:LEU:HD12	2.17	0.45
46:PL:22:GLU:OE1	46:PL:80:PRO:HB2	2.17	0.45
46:PL:201:VAL:HG23	46:PL:301:CYS:SG	2.57	0.45
46:PL:290:THR:HA	46:PL:293:MET:HG3	1.98	0.45
45:PM:209:ILE:HD13	45:PM:230:LEU:HD11	1.98	0.45
46:PN:8:GLN:HE22	46:PN:17:GLY:HA3	1.81	0.45
46:QB:378:PHE:HA	46:QB:381:VAL:HG12	1.98	0.45
45:QC:149:LEU:O	45:QC:153:LEU:HD23	2.17	0.45
45:QE:265:ILE:HG12	45:QE:432:TYR:HE1	1.82	0.45
45:QE:318:MET:HB2	45:QE:376:CYS:SG	2.56	0.45
45:QG:401:LYS:HB2	45:QG:401:LYS:HE2	1.73	0.45
46:QH:49:VAL:HG23	46:QH:50:TYR:HD2	1.81	0.45
45:QI:141:VAL:HG22	45:QI:187:SER:HA	1.98	0.45
46:QJ:68:LEU:HD13	46:QJ:143:THR:OG1	2.16	0.45
46:QJ:254:ALA:O	46:QJ:258:ILE:HG12	2.16	0.45
46:QL:268:ILE:HG22	46:QL:368:VAL:HG22	1.98	0.45
46:QN:87:PRO:HA	46:QN:90:PHE:HD2	1.82	0.45
45:RC:188:ILE:HD13	45:RC:395:PHE:CD2	2.52	0.45
45:RC:419:SER:O	45:RC:422:ARG:N	2.50	0.45
46:RD:4:ILE:HG13	46:RD:132:GLY:O	2.17	0.45
45:RE:17:GLY:HA2	45:RE:20:CYS:SG	2.56	0.45
45:RE:326:LYS:HE2	46:RF:208:TYR:HD1	1.81	0.45
46:RF:4:ILE:HG13	46:RF:132:GLY:O	2.17	0.45
45:RI:93:ILE:HG22	45:RI:114:ILE:HD11	1.99	0.45
46:RJ:382:ALA:HB2	46:RJ:415:MET:HE3	1.99	0.45
45:RM:188:ILE:HG13	45:RM:425:LEU:HD11	1.97	0.45
46:SB:247:ASN:ND2	45:SC:71:GLU:OE1	2.50	0.45
46:SB:315:ALA:HB1	46:SB:317:PHE:CE1	2.51	0.45
45:SC:51:THR:HG22	45:SC:52:PHE:CD1	2.51	0.45
45:SC:136:LEU:HD23	45:SC:167:LEU:HB2	1.98	0.45
45:SC:188:ILE:HD13	45:SC:422:ARG:HH22	1.81	0.45
45:SE:402:ARG:HD2	45:SE:405:VAL:HB	1.99	0.45
46:SF:288:GLU:O	46:SF:291:GLN:HG3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SG:252:ILE:HA	45:SG:255:PHE:HE2	1.82	0.45
45:SG:259:LEU:HD21	45:SG:380:ASN:HB2	1.98	0.45
46:SJ:46:ARG:HH22	45:SK:73:THR:HA	1.82	0.45
46:SL:379:LYS:HE3	46:SL:379:LYS:HA	1.99	0.45
46:SL:405:GLU:HA	46:SL:408:PHE:CD2	2.52	0.45
46:TB:148:GLY:O	46:TB:152:ILE:HG12	2.17	0.45
46:TD:287:PRO:HA	46:TD:290:THR:HG22	1.98	0.45
45:TE:326:LYS:HE2	46:TF:208:TYR:CD1	2.52	0.45
45:TE:329:ASN:O	45:TE:332:ILE:HG22	2.16	0.45
45:TG:336:LYS:HZ3	45:TG:349:THR:HA	1.82	0.45
46:TH:230:SER:HA	46:TH:233:MET:HE3	1.99	0.45
46:TH:244:GLY:HA3	46:TH:354:CYS:HA	1.99	0.45
46:TN:34:GLY:HA3	46:TN:58:ARG:HG3	1.98	0.45
46:UD:270:PHE:HD2	46:UD:273:LEU:HD21	1.81	0.45
46:UF:252:LYS:HA	45:UG:100:ALA:HB1	1.99	0.45
46:UH:284:LEU:HD23	46:UH:362:LYS:HB2	1.98	0.45
45:UK:111:GLY:HA2	45:UK:114:ILE:HD13	1.98	0.45
45:UK:307:PRO:HG2	45:UK:308:ARG:HD3	1.99	0.45
45:UM:258:ASN:HD21	46:UN:178:THR:HG23	1.82	0.45
46:VB:286:VAL:HG12	46:VB:329:GLN:OE1	2.17	0.45
46:VF:67:ASP:HB3	46:VF:73:MET:HE1	1.98	0.45
45:VG:203:MET:HG3	45:VG:384:ILE:HD11	1.98	0.45
46:VH:372:THR:HA	46:VH:422:TYR:CE2	2.52	0.45
45:VM:88:HIS:HB3	45:VM:91:GLN:HG2	1.98	0.45
45:VM:387:VAL:HA	45:VM:390:ARG:HG2	1.99	0.45
46:VN:200:MET:HB3	46:VN:268:ILE:HD11	1.98	0.45
45:WC:118:CYS:O	45:WC:122:ILE:HG12	2.16	0.45
46:WF:73:MET:HG2	46:WF:90:PHE:HD1	1.81	0.45
46:WF:113:ILE:HD13	46:WF:150:LEU:HD22	1.97	0.45
45:WI:152:LEU:HD23	45:WI:155:GLU:OE2	2.17	0.45
45:WK:67:PHE:HB2	45:WK:92:LEU:HD13	1.99	0.45
45:WK:221:ARG:O	45:WK:221:ARG:HG2	2.16	0.45
46:WL:183:TYR:CZ	46:WL:388:MET:HE3	2.52	0.45
46:WN:288:GLU:HA	46:WN:291:GLN:HG3	1.99	0.45
46:WN:313:ALA:HB1	46:WN:367:PHE:HE1	1.81	0.45
45:CE:36:MET:SD	45:CE:37:PRO:HD2	2.57	0.45
1:0A:124:LEU:H	1:0A:124:LEU:HD23	1.81	0.45
2:0B:119:PRO:C	2:0B:120:THR:HG1	2.24	0.45
3:0C:80:ARG:HD2	3:0C:81:TYR:CE2	2.52	0.45
4:0D:37:GLN:HB2	4:0D:58:TYR:CE2	2.49	0.45
11:0S:181:LYS:NZ	11:0S:223:ASP:OD2	2.43	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:0V:95:SER:O	14:0V:95:SER:OG	2.31	0.45
17:1F:42:ASN:OD1	17:1F:42:ASN:N	2.50	0.45
17:1F:152:HIS:ND1	17:1F:152:HIS:O	2.49	0.45
8:1H:380:GLU:HA	8:1H:383:LYS:HE2	1.99	0.45
19:1J:399:GLU:OE1	19:1J:401:SER:OG	2.32	0.45
9:1N:70:PHE:CE2	9:1N:131:ILE:HG13	2.52	0.45
9:1N:416:LEU:HD23	9:1N:454:PRO:HA	1.99	0.45
23:1O:264:ILE:O	45:UA:282:TYR:HB3	2.17	0.45
24:1P:200:LEU:HD21	46:TH:276:ARG:CD	2.43	0.45
25:1R:101:ARG:HD3	25:1R:126:PHE:CE2	2.52	0.45
25:1R:439:TYR:CD1	25:1R:446:LEU:HB3	2.51	0.45
13:1U:194:ARG:HB3	13:1U:212:THR:HG23	1.99	0.45
13:1U:535:GLU:O	13:1U:553:GLU:N	2.50	0.45
26:1W:205:ASP:O	26:1W:209:GLU:HG2	2.17	0.45
1:2A:90:GLN:O	1:2A:92:PRO:HD3	2.17	0.45
16:2B:22:LYS:HB2	16:2B:132:ARG:HH12	1.81	0.45
27:2C:65:PHE:C	27:2C:66:LEU:HD12	2.41	0.45
4:2D:44:TYR:CE1	46:DJ:48:ASN:HB3	2.52	0.45
29:2G:24:LEU:HD21	45:KG:330:ALA:HA	1.98	0.45
25:2R:215:ASN:OD1	25:2R:219:LYS:NZ	2.50	0.45
25:2R:235:PHE:O	25:2R:239:LYS:HG2	2.17	0.45
25:2R:471:ASN:HB2	25:2R:479:PHE:CE1	2.52	0.45
25:2R:504:GLU:OE1	45:EG:39:ASP:HA	2.17	0.45
14:2V:133:TYR:HA	14:2V:136:THR:HG22	1.99	0.45
26:2W:247:ARG:NE	26:2W:247:ARG:HA	2.32	0.45
27:3C:205:ILE:HD11	27:3C:268:ARG:NE	2.32	0.45
5:3E:74:ASN:O	5:3E:76:GLU:HG3	2.16	0.45
12:3T:228:PRO:O	12:3T:229:THR:OG1	2.32	0.45
13:3U:69:TYR:OH	13:3U:114:GLU:O	2.30	0.45
33:4F:4:LYS:HD2	33:4F:4:LYS:HA	1.76	0.45
34:4R:203:ARG:NH2	34:4R:204:VAL:O	2.40	0.45
35:4S:187:LEU:HB2	35:4S:240:MET:HG2	1.98	0.45
37:5E:155:MET:HA	37:5E:155:MET:HE2	1.98	0.45
37:5F:111:ASN:HB3	46:NF:44:LEU:HD22	1.98	0.45
35:5S:93:PRO:HG2	35:5S:130:ARG:HH21	1.82	0.45
35:5S:192:MET:HG2	46:AH:424:GLN:CG	2.45	0.45
40:6G:275:TYR:N	40:6G:276:PRO:HD2	2.32	0.45
34:7R:206:ASN:ND2	34:7R:210:GLU:OE2	2.50	0.45
44:8R:361:UNK:C	46:OB:56:GLY:HA2	2.47	0.45
46:AB:260:PHE:HB2	46:AB:263:LEU:HD13	1.99	0.45
46:AB:320:ARG:O	46:AB:363:MET:HE1	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AC:98:ASP:OD1	45:AC:99:ALA:N	2.49	0.45
46:AD:45:GLU:O	46:AD:46:ARG:HD3	2.16	0.45
46:AD:288:GLU:O	46:AD:291:GLN:HG3	2.17	0.45
46:AF:334:GLN:OE1	46:AF:347:ASN:HA	2.17	0.45
45:AG:237:SER:HA	45:AG:320:ARG:HH11	1.82	0.45
45:AI:372:MET:N	45:AI:372:MET:SD	2.89	0.45
45:AK:287:SER:O	45:AK:290:GLU:HG3	2.17	0.45
46:BD:316:LEU:HB2	46:BD:366:THR:HG22	1.99	0.45
45:BK:107:HIS:ND1	45:BK:107:HIS:O	2.49	0.45
45:BK:377:MET:SD	45:BK:379:SER:HB3	2.56	0.45
45:BM:5:ILE:HD13	45:BM:135:PHE:HE1	1.81	0.45
45:CA:226:ASN:OD1	45:CA:227:LEU:N	2.49	0.45
45:CA:268:MET:SD	45:CA:380:ASN:HB2	2.57	0.45
46:CB:350:LYS:NZ	45:CC:181:VAL:H	2.14	0.45
45:CC:107:HIS:ND1	45:CC:107:HIS:O	2.49	0.45
45:CC:252:ILE:HA	45:CC:255:PHE:HD1	1.82	0.45
45:CI:136:LEU:HD22	45:CI:169:PHE:HE2	1.82	0.45
46:CJ:347:ASN:C	46:CJ:347:ASN:HD22	2.24	0.45
45:DA:19:ALA:HA	45:DA:22:GLU:OE1	2.16	0.45
45:DE:121:ARG:HH12	45:DE:124:LYS:HD2	1.82	0.45
45:DE:208:ALA:HB2	45:DE:304:LYS:HB2	1.99	0.45
46:DF:318:ARG:NH1	46:DF:358:PRO:HG3	2.32	0.45
45:DG:14:ILE:O	45:DG:18:ASN:ND2	2.48	0.45
46:DJ:284:LEU:HD12	46:DJ:284:LEU:O	2.17	0.45
45:DK:205:ASP:OD1	45:DK:206:ASN:N	2.49	0.45
45:DM:224:TYR:CD2	45:DM:227:LEU:HD12	2.52	0.45
45:EC:244:PHE:CE1	45:EC:358:GLN:HG3	2.52	0.45
45:EG:35:GLN:OE1	45:EG:60:LYS:HB3	2.17	0.45
45:EK:206:ASN:OD1	47:EK:501:GTP:N2	2.49	0.45
45:EM:93:ILE:HG22	45:EM:114:ILE:HD11	1.98	0.45
46:EN:221:THR:HG23	46:EN:224:ASP:H	1.81	0.45
45:FA:222:PRO:HD2	46:FB:324:LYS:HD3	1.98	0.45
46:FD:113:ILE:HD13	46:FD:150:LEU:HD22	1.97	0.45
46:FD:207:LEU:HA	46:FD:210:ILE:HG12	1.98	0.45
45:FE:370:LYS:HA	45:FE:370:LYS:HD3	1.60	0.45
46:FF:11:GLN:O	46:FF:15:GLN:HG2	2.15	0.45
46:FF:318:ARG:HD3	46:FF:358:PRO:HD3	1.99	0.45
46:FH:16:ILE:HD13	46:FH:226:ASN:OD1	2.17	0.45
46:FH:212:PHE:HB3	46:FH:213:ARG:NH1	2.32	0.45
45:FK:71:GLU:OE2	46:FL:2:ARG:NH2	2.50	0.45
46:FL:260:PHE:HB2	46:FL:263:LEU:CD1	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GE:21:TRP:HZ2	45:GE:65:ALA:HB2	1.82	0.45
46:GF:173:PRO:HG2	46:GF:380:ARG:HE	1.81	0.45
45:GG:326:LYS:HZ3	46:GJ:208:TYR:HB3	1.82	0.45
46:GH:105:HIS:CE1	46:GH:150:LEU:HD12	2.51	0.45
46:GJ:86:ARG:HD3	46:HJ:281:TYR:CD2	2.52	0.45
46:GJ:200:MET:HG3	46:GJ:266:PHE:HB2	1.99	0.45
46:GJ:330:MET:HE3	46:GJ:349:ILE:HG21	1.99	0.45
46:GJ:342:VAL:HG13	46:GJ:345:ILE:HG22	1.98	0.45
45:GM:147:SER:HB2	45:GM:190:SER:HB3	1.99	0.45
45:GM:224:TYR:CE2	46:GN:246:LEU:HD11	2.51	0.45
46:GN:20:PHE:HA	46:GN:230:SER:OG	2.17	0.45
46:GN:258:ILE:HG13	46:GN:266:PHE:HZ	1.82	0.45
46:HD:304:ASP:OD1	46:HD:306:ARG:NH2	2.50	0.45
46:HF:275:SER:OG	46:HF:278:SER:OG	2.31	0.45
46:HF:342:VAL:HG13	46:HF:345:ILE:HG22	1.99	0.45
46:HJ:68:LEU:HD21	46:HJ:147:MET:HE1	1.98	0.45
46:HN:202:ILE:HD11	46:HN:268:ILE:HD11	1.99	0.45
46:IB:83:GLN:NE2	46:IB:84:LEU:HD22	2.27	0.45
46:IB:290:THR:HA	46:IB:293:MET:HG2	1.99	0.45
45:IC:263:PRO:HD3	46:IF:396:HIS:CE1	2.52	0.45
46:ID:238:CYS:SG	46:ID:318:ARG:NE	2.90	0.45
45:IE:254:GLU:OE1	46:IH:99:ASN:ND2	2.49	0.45
46:IL:318:ARG:NE	46:IL:356:ILE:O	2.37	0.45
45:IM:93:ILE:HD11	45:IM:121:ARG:HG3	1.99	0.45
45:JA:76:ASP:OD1	45:JA:77:GLU:N	2.50	0.45
46:JL:323:THR:HG22	46:JL:353:ILE:HD12	1.98	0.45
45:JM:414:GLU:OE2	45:JM:417:GLU:N	2.49	0.45
46:JN:51:TYR:HB3	46:JN:59:TYR:HB3	1.98	0.45
46:KB:375:GLN:HB2	46:KB:419:VAL:HG23	1.99	0.45
45:KM:271:SER:C	45:KM:302:MET:HE1	2.42	0.45
45:LC:217:LEU:HD12	45:LC:367:ASP:HB3	1.99	0.45
45:LC:292:THR:HG21	45:LC:331:SER:HB2	1.99	0.45
45:LE:73:THR:HB	46:LF:247:ASN:HD21	1.81	0.45
46:LL:286:VAL:HG21	46:LL:325:GLU:CB	2.46	0.45
45:LM:172:TYR:HD2	45:LM:173:PRO:HD2	1.81	0.45
45:MC:31:GLN:NE2	45:MC:35:GLN:HB2	2.31	0.45
45:MG:115:VAL:HG21	45:MG:152:LEU:CD2	2.47	0.45
45:MG:259:LEU:HD11	45:MG:316:SER:HB3	1.97	0.45
45:MK:428:LEU:HG	45:MK:432:TYR:HE2	1.81	0.45
46:MN:6:HIS:NE2	46:MN:8:GLN:OE1	2.50	0.45
45:NC:288:VAL:HA	45:NC:291:ILE:HG12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ND:289:LEU:HD11	46:ND:365:VAL:HG12	1.99	0.45
46:ND:307:HIS:ND1	46:ND:376:GLU:OE2	2.43	0.45
46:NH:321:MET:N	46:NH:321:MET:SD	2.89	0.45
45:NI:2:ARG:HD3	45:NI:2:ARG:H	1.82	0.45
45:NI:208:ALA:O	45:NI:212:ILE:HG12	2.17	0.45
46:NJ:117:LEU:HA	46:NJ:120:VAL:HG12	1.98	0.45
46:NL:116:VAL:HA	46:NL:119:VAL:HG12	1.99	0.45
45:OA:102:ASN:N	45:OA:144:GLY:HA3	2.32	0.45
45:OA:156:ARG:HG2	45:OA:156:ARG:HH11	1.82	0.45
45:OA:263:PRO:HD3	46:OD:396:HIS:CD2	2.51	0.45
46:OB:304:ASP:HB3	46:OB:307:HIS:ND1	2.32	0.45
45:OC:332:ILE:O	45:OC:336:LYS:HG2	2.16	0.45
45:OE:21:TRP:CZ2	45:OE:65:ALA:HB2	2.52	0.45
45:OE:177:VAL:HG13	46:OF:327:ASP:HB3	1.98	0.45
46:OF:167:PHE:CD1	46:OF:233:MET:HE2	2.52	0.45
45:OK:387:VAL:HA	45:OK:390:ARG:HG2	1.99	0.45
45:OM:319:TYR:HB3	45:OM:323:VAL:HG21	1.98	0.45
46:ON:24:ILE:HA	46:ON:27:GLU:OE2	2.17	0.45
45:PA:180:ALA:HA	46:PB:350:LYS:HZ2	1.81	0.45
45:PA:226:ASN:OD1	45:PA:227:LEU:N	2.49	0.45
45:PE:390:ARG:HG3	45:PE:391:LEU:HD12	1.98	0.45
45:PG:152:LEU:O	45:PG:155:GLU:HG3	2.16	0.45
45:PG:271:SER:HB2	45:PG:377:MET:HB3	1.98	0.45
46:PH:256:ASN:OD1	46:PH:257:LEU:HG	2.16	0.45
46:PJ:240:LEU:HD12	46:PJ:249:ASP:HB2	1.99	0.45
45:PK:324:VAL:HG11	45:PK:326:LYS:NZ	2.31	0.45
45:PM:21:TRP:CZ2	45:PM:65:ALA:HB2	2.52	0.45
45:PM:88:HIS:HB3	45:PM:91:GLN:HG2	1.99	0.45
45:PM:147:SER:HB2	45:PM:190:SER:HB3	1.98	0.45
46:PN:238:CYS:SG	46:PN:239:CYS:N	2.90	0.45
46:QB:100:ASN:HB3	46:QB:103:LYS:HB3	1.99	0.45
45:QC:231:ILE:O	45:QC:235:ILE:HG12	2.17	0.45
46:QD:417:ASP:O	46:QD:421:GLU:HG3	2.16	0.45
46:QH:116:VAL:HA	46:QH:119:VAL:HG22	1.99	0.45
46:QH:174:LYS:HB2	46:QH:205:GLU:OE2	2.17	0.45
45:QI:265:ILE:HD11	45:QI:435:VAL:HG21	1.97	0.45
46:QJ:116:VAL:HA	46:QJ:119:VAL:HG22	1.98	0.45
46:QL:346:PRO:HG2	45:QM:394:LYS:NZ	2.32	0.45
45:QM:34:GLY:HA3	45:QM:60:LYS:HE2	1.97	0.45
45:QM:210:TYR:CZ	45:QM:227:LEU:HD11	2.51	0.45
46:QN:31:ASP:OD2	46:QN:37:HIS:ND1	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QN:135:ILE:HG13	46:QN:152:ILE:HD11	1.99	0.45
46:RB:182:PRO:O	46:RB:186:THR:HG22	2.17	0.45
45:RC:141:VAL:HG12	45:RC:171:ILE:O	2.17	0.45
46:RD:118:ASP:O	46:RD:122:LYS:HG3	2.16	0.45
46:RD:239:CYS:HB3	46:RD:354:CYS:SG	2.57	0.45
46:RD:246:LEU:HD11	45:RE:224:TYR:HE2	1.82	0.45
46:RF:254:ALA:O	46:RF:258:ILE:HG12	2.16	0.45
45:RG:284:GLU:HG2	45:RG:286:LEU:HD22	1.98	0.45
45:RI:7:ILE:HG22	45:RI:66:VAL:HG22	1.99	0.45
45:RK:98:ASP:OD1	45:RK:99:ALA:N	2.50	0.45
45:RK:211:ASP:OD1	45:RK:214:ARG:NE	2.49	0.45
45:RM:121:ARG:HA	45:RM:121:ARG:CZ	2.47	0.45
46:SF:282:ARG:HE	46:SF:288:GLU:CD	2.24	0.45
45:SG:174:SER:HB2	45:SG:177:VAL:O	2.16	0.45
46:SJ:6:HIS:NE2	46:SJ:8:GLN:OE1	2.50	0.45
46:SJ:345:ILE:O	46:SJ:345:ILE:HG23	2.17	0.45
46:SJ:350:LYS:NZ	46:SJ:352:SER:OG	2.32	0.45
46:SL:60:VAL:HG23	46:SL:84:LEU:O	2.17	0.45
45:TC:136:LEU:HD23	45:TC:167:LEU:HB2	1.99	0.45
45:TC:165:SER:C	45:TC:166:LYS:HD3	2.42	0.45
45:TC:426:ALA:HA	45:TC:429:GLU:CD	2.42	0.45
46:TF:131:GLN:O	46:TF:163:ILE:HG12	2.17	0.45
46:TF:221:THR:HG23	46:TF:224:ASP:H	1.81	0.45
45:TG:51:THR:HG22	45:TG:52:PHE:CD1	2.51	0.45
45:TK:28:HIS:CD2	45:TK:49:PHE:HB3	2.51	0.45
45:TM:88:HIS:HB3	45:TM:91:GLN:OE1	2.17	0.45
45:UA:387:VAL:HA	45:UA:390:ARG:HG2	1.99	0.45
46:UB:139:LEU:HD22	46:UB:170:VAL:HG12	1.98	0.45
45:UC:399:TYR:O	45:UC:402:ARG:NH2	2.50	0.45
45:UE:49:PHE:HD1	45:UE:53:PHE:HB2	1.82	0.45
45:UE:352:LYS:NZ	46:UF:179:VAL:HG13	2.32	0.45
46:UH:391:ARG:HA	46:UH:391:ARG:HD2	1.77	0.45
46:UJ:294:PHE:CD1	46:UJ:333:VAL:HG11	2.51	0.45
45:UK:280:LYS:HE3	45:UK:283:HIS:HB2	1.98	0.45
46:UL:12:CYS:O	46:UL:16:ILE:HG12	2.17	0.45
46:UL:20:PHE:CE1	46:UL:233:MET:HB3	2.51	0.45
46:UL:218:THR:HG23	46:UL:219:THR:HG23	1.98	0.45
45:UM:97:GLU:OE1	45:UM:98:ASP:N	2.50	0.45
46:UN:312:THR:HG22	46:UN:370:ASN:HB3	1.98	0.45
46:VD:86:ARG:HG3	46:WD:282:ARG:NH2	2.31	0.45
46:VH:198:GLU:HG2	46:VH:266:PHE:HE2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VI:88:HIS:O	45:VI:91:GLN:HG2	2.16	0.45
46:VL:406:MET:SD	46:VL:407:GLU:N	2.90	0.45
45:WA:90:GLU:OE1	45:WA:121:ARG:NH1	2.49	0.45
45:WA:208:ALA:O	45:WA:212:ILE:HG12	2.17	0.45
46:WB:207:LEU:HD22	46:WB:228:LEU:HD11	1.99	0.45
45:WC:166:LYS:HD2	45:WC:198:THR:HA	1.99	0.45
45:WG:280:LYS:HE3	45:WG:284:GLU:OE2	2.17	0.45
45:WI:17:GLY:HA2	45:WI:20:CYS:SG	2.56	0.45
45:WI:177:VAL:HG13	46:WJ:327:ASP:CG	2.41	0.45
45:WK:100:ALA:HB1	46:WL:252:LYS:HA	1.98	0.45
45:CE:2:ARG:HB2	45:CE:133:GLN:NE2	2.32	0.45
45:DC:19:ALA:O	45:DC:22:GLU:HG3	2.16	0.45
45:DC:332:ILE:HD13	45:DC:335:ILE:HD12	1.98	0.45
45:DC:385:ALA:HB2	45:DC:432:TYR:HD2	1.82	0.45
3:0C:45:PRO:HG3	46:DH:44:LEU:HD21	1.99	0.45
5:0E:49:PHE:HE1	5:0E:67:LEU:HD23	1.80	0.45
5:0E:129:HIS:O	5:0E:132:ILE:HG22	2.17	0.45
6:0F:209:LYS:HD3	45:FC:279:GLU:CD	2.42	0.45
8:0H:391:LYS:HE2	8:0H:391:LYS:CA	2.43	0.45
9:0N:16:ILE:HG13	9:0N:17:GLY:N	2.31	0.45
9:0N:250:ILE:HG21	45:KK:1:MET:HE2	1.98	0.45
13:0U:326:ILE:HD12	13:0U:337:ALA:O	2.16	0.45
1:1A:6:TYR:HA	34:4R:8:THR:OG1	2.17	0.45
4:1D:177:THR:HG22	46:EF:48:ASN:OD1	2.17	0.45
5:1E:95:GLN:NE2	5:1E:96:ARG:HD3	2.31	0.45
7:1G:138:THR:O	7:1G:139:ILE:HG22	2.17	0.45
19:1J:284:THR:OG1	19:1J:287:GLU:OE1	2.33	0.45
22:1M:333:ARG:O	22:1M:336:THR:HG22	2.15	0.45
11:1S:127:ARG:O	11:1S:128:THR:OG1	2.29	0.45
13:1U:44:ILE:HD12	13:1U:44:ILE:H	1.82	0.45
14:1V:178:GLU:O	14:1V:182:ILE:HG12	2.17	0.45
15:1X:45:GLN:NE2	45:ME:282:TYR:HB3	2.32	0.45
1:2A:6:TYR:HB2	34:5R:9:VAL:O	2.16	0.45
27:2C:26:GLN:O	27:2C:27:LYS:HG2	2.16	0.45
4:2D:118:ASP:H	4:2D:121:LYS:HZ3	1.63	0.45
4:2D:120:MET:CE	4:2D:126:TRP:HB2	2.46	0.45
5:2E:155:LYS:HA	5:2E:155:LYS:HD2	1.78	0.45
31:2I:44:PRO:HD2	46:GH:329:GLN:NE2	2.30	0.45
20:2K:418:LYS:O	20:2K:421:GLU:HG3	2.17	0.45
23:2O:207:HIS:O	23:2O:211:ILE:HG13	2.16	0.45
24:2P:388:THR:HG22	24:2P:391:ARG:HH12	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:2Q:82:ASN:HD22	10:2Q:127:GLU:HA	1.82	0.45
25:2R:92:TRP:CZ2	45:AG:372:MET:HE1	2.52	0.45
25:2R:141:GLN:HB2	25:2R:144:SER:OG	2.17	0.45
26:2W:217:ARG:HB3	26:2W:221:LYS:NZ	2.31	0.45
26:2W:243:ILE:HG21	34:6R:9:VAL:HB	1.98	0.45
1:3A:108:ARG:HH12	25:3R:38:HIS:CD2	2.34	0.45
1:3A:135:SER:H	1:3A:138:TRP:HD1	1.65	0.45
5:3E:116:GLU:HA	5:3E:158:LYS:HG3	1.99	0.45
5:3E:142:VAL:O	5:3E:145:GLU:HG3	2.17	0.45
23:3O:262:ASP:HA	23:3O:265:PHE:CD2	2.52	0.45
23:3O:364:LYS:O	23:3O:368:GLU:HG3	2.17	0.45
23:3O:423:HIS:CE1	45:UG:372:MET:HE3	2.52	0.45
12:3T:87:PHE:CD1	12:3T:96:GLN:HB3	2.52	0.45
27:4C:140:GLN:NE2	27:4C:142:GLY:O	2.34	0.45
34:4R:206:ASN:HB2	34:4R:210:GLU:OE1	2.16	0.45
36:5B:153:PHE:HE2	45:NG:365:GLY:N	2.15	0.45
37:5E:212:THR:HG22	46:LF:391:ARG:HE	1.81	0.45
37:5F:27:ARG:HH12	46:OD:320:ARG:NH1	2.15	0.45
37:5G:173:LYS:HZ3	46:KL:262:ARG:HG2	1.82	0.45
34:5R:291:LYS:HD3	34:5R:292:ARG:N	2.32	0.45
34:6R:362:GLN:HG2	34:6R:363:ASN:N	2.32	0.45
45:AA:333:ALA:O	45:AA:337:THR:HG23	2.16	0.45
46:AB:3:GLU:CD	46:AB:3:GLU:H	2.25	0.45
45:AC:192:HIS:CD2	45:AC:421:ALA:HA	2.52	0.45
45:AC:283:HIS:ND1	45:MC:89:PRO:HD3	2.31	0.45
46:AF:180:VAL:HG12	46:AF:180:VAL:O	2.17	0.45
46:AH:145:SER:HB2	46:AH:188:SER:HB3	1.98	0.45
46:AN:263:LEU:HD23	46:AN:263:LEU:HA	1.85	0.45
45:BA:21:TRP:CZ2	45:BA:65:ALA:HB2	2.52	0.45
46:BB:316:LEU:HB2	46:BB:366:THR:CG2	2.46	0.45
45:BG:222:PRO:HG2	46:BH:324:LYS:HG3	1.99	0.45
45:BG:398:MET:HE3	46:BH:346:PRO:HD2	1.98	0.45
46:BH:154:LYS:HA	46:BH:157:GLU:OE1	2.17	0.45
46:BL:27:GLU:OE2	46:BL:241:ARG:NH2	2.50	0.45
45:CA:401:LYS:HE3	45:CA:401:LYS:HB2	1.73	0.45
45:CC:155:GLU:HA	45:CC:197:HIS:ND1	2.32	0.45
46:CF:220:PRO:C	45:CE:326:LYS:HZ1	2.25	0.45
45:CG:296:PHE:CE2	45:CG:335:ILE:HG21	2.50	0.45
45:CG:311:LYS:O	45:CG:381:SER:OG	2.28	0.45
45:CI:171:ILE:HG23	45:CI:204:LEU:O	2.17	0.45
45:CI:387:VAL:O	45:CI:390:ARG:HG2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CK:352:LYS:HZ1	46:CL:178:THR:CA	2.19	0.45
46:DB:200:MET:CE	46:DB:266:PHE:HB2	2.47	0.45
46:DB:282:ARG:HH21	46:DB:288:GLU:CD	2.24	0.45
45:DI:14:ILE:HG23	45:DI:67:PHE:CD2	2.52	0.45
45:DI:174:SER:HB3	45:DI:177:VAL:O	2.16	0.45
45:DM:103:PHE:CD2	45:DM:413:MET:HE1	2.52	0.45
45:DM:123:ARG:NH2	45:DM:161:TYR:HE1	2.14	0.45
46:DN:260:PHE:HB2	46:DN:263:LEU:HD13	1.97	0.45
46:EB:66:MET:SD	46:EB:116:VAL:HB	2.57	0.45
46:ED:346:PRO:HD2	45:EE:398:MET:HE2	1.98	0.45
45:EG:3:GLU:O	45:EG:133:GLN:N	2.33	0.45
45:EI:419:SER:O	45:EI:423:GLU:HG2	2.16	0.45
46:EJ:258:ILE:HD11	45:EK:407:TRP:HZ2	1.82	0.45
46:EJ:395:LEU:O	46:EJ:399:THR:HG23	2.17	0.45
46:EL:36:TYR:CZ	46:EL:44:LEU:HD11	2.52	0.45
46:EL:226:ASN:HD21	49:EL:501:GDP:HN1	1.65	0.45
46:EL:258:ILE:O	46:EL:258:ILE:HG13	2.17	0.45
45:EM:37:PRO:HG2	45:EM:40:LYS:H	1.82	0.45
45:EM:116:ASP:OD1	45:EM:116:ASP:N	2.50	0.45
45:EM:311:LYS:HD2	45:EM:311:LYS:HA	1.68	0.45
46:EN:198:GLU:HG2	46:EN:266:PHE:HE2	1.81	0.45
46:FD:293:MET:CE	46:FD:365:VAL:HG11	2.44	0.45
45:FE:69:ASP:O	45:FE:94:SER:HA	2.16	0.45
46:FF:65:LEU:HB3	46:FF:73:MET:HE1	1.98	0.45
45:FG:169:PHE:HA	45:FG:202:VAL:HG22	1.99	0.45
46:FH:311:LEU:HD13	46:FH:342:VAL:HG11	1.99	0.45
45:FI:97:GLU:HA	46:FJ:2:ARG:HD3	1.99	0.45
46:FJ:268:ILE:HG13	46:FJ:300:MET:CE	2.47	0.45
46:FJ:310:TYR:CD2	46:FJ:371:SER:HB3	2.52	0.45
46:FL:199:CYS:O	46:FL:200:MET:HE2	2.17	0.45
46:FN:8:GLN:HE21	46:FN:14:ASN:HA	1.82	0.45
46:GD:16:ILE:HD13	46:GD:226:ASN:OD1	2.17	0.45
46:GD:109:GLY:O	46:GD:113:ILE:HG23	2.16	0.45
45:GE:296:PHE:CE2	45:GE:335:ILE:HG21	2.52	0.45
45:GG:150:GLY:O	45:GG:154:LEU:HD23	2.16	0.45
45:GK:208:ALA:O	45:GK:212:ILE:HG12	2.17	0.45
45:GK:223:THR:HG23	45:GK:225:THR:H	1.81	0.45
45:GK:288:VAL:HA	45:GK:291:ILE:HG12	1.99	0.45
46:HB:357:PRO:HB2	46:HB:361:LEU:O	2.16	0.45
45:HC:22:GLU:HG2	45:HC:83:TYR:OH	2.17	0.45
45:HC:63:PRO:HG2	45:HC:86:LEU:HD21	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HC:238:LEU:HA	45:HC:318:MET:CE	2.47	0.45
46:HD:2:ARG:HB2	46:HD:131:GLN:HE21	1.80	0.45
46:HF:178:THR:HG22	46:HF:180:VAL:H	1.81	0.45
46:HH:208:TYR:HE1	46:HH:225:LEU:HD11	1.81	0.45
46:HH:318:ARG:HB3	46:HH:357:PRO:HA	1.99	0.45
45:HI:353:VAL:HG22	46:HL:177:ASP:HB2	1.99	0.45
46:HJ:330:MET:HE2	46:HJ:330:MET:HA	1.99	0.45
45:HM:261:PRO:HD2	45:HM:313:MET:HE2	1.98	0.45
45:IA:237:SER:HG	45:IA:376:CYS:HG	1.65	0.45
46:ID:105:HIS:CD2	46:ID:150:LEU:HB2	2.51	0.45
46:ID:136:THR:HG22	46:ID:167:PHE:CD1	2.52	0.45
45:IE:221:ARG:HB2	46:IF:322:SER:OG	2.17	0.45
46:IF:290:THR:O	46:IF:293:MET:HB3	2.17	0.45
46:IJ:86:ARG:HA	46:IJ:86:ARG:HD2	1.77	0.45
45:IK:209:ILE:HB	45:IK:227:LEU:HD22	1.99	0.45
45:IM:237:SER:O	45:IM:318:MET:HE2	2.17	0.45
45:JA:80:THR:HA	45:JA:84:ARG:NH1	2.32	0.45
45:JC:184:PRO:O	45:JC:188:ILE:HG12	2.16	0.45
45:JE:98:ASP:OD1	45:JE:99:ALA:N	2.50	0.45
45:JG:118:CYS:O	45:JG:122:ILE:HG12	2.16	0.45
45:JI:318:MET:N	45:JI:318:MET:SD	2.90	0.45
45:JK:311:LYS:HE3	45:JK:344:VAL:HG23	1.99	0.45
46:JN:156:ARG:NH2	46:JN:197:ASP:OD1	2.50	0.45
46:JN:175:VAL:HG22	46:JN:205:GLU:HB2	1.97	0.45
45:KA:287:SER:O	45:KA:290:GLU:HG3	2.17	0.45
45:KC:411:GLU:N	45:KC:411:GLU:OE2	2.49	0.45
45:KE:396:ASP:OD1	45:KE:422:ARG:NH1	2.50	0.45
45:KG:136:LEU:HD22	45:KG:169:PHE:HE2	1.82	0.45
45:KG:177:VAL:HG21	46:KH:327:ASP:HB3	1.98	0.45
45:KG:185:TYR:CE2	45:KG:398:MET:HE3	2.52	0.45
46:KH:130:LEU:HB3	46:KH:162:ARG:NH1	2.32	0.45
45:KI:215:ARG:HE	45:KI:216:ASN:CG	2.25	0.45
46:KJ:276:ARG:HA	46:KJ:279:GLN:HE22	1.82	0.45
46:KL:111:GLU:OE1	46:KL:111:GLU:N	2.46	0.45
45:LA:315:CYS:SG	45:LA:377:MET:HE1	2.57	0.45
45:LC:100:ALA:HA	46:LD:252:LYS:HD3	1.99	0.45
45:LG:36:MET:SD	45:LG:37:PRO:HD2	2.56	0.45
46:LH:310:TYR:HD1	46:LH:371:SER:HB3	1.82	0.45
46:LN:69:GLU:CD	46:LN:71:GLY:H	2.25	0.45
45:MA:31:GLN:HG3	45:MA:37:PRO:HA	1.98	0.45
45:MA:90:GLU:O	45:MA:90:GLU:HG3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MA:260:VAL:O	46:MD:397:TRP:CH2	2.70	0.45
46:MB:86:ARG:NH1	46:MB:88:ASP:OD2	2.48	0.45
45:MC:155:GLU:HG2	45:MC:197:HIS:CD2	2.52	0.45
46:MF:9:GLY:HA3	46:MF:66:MET:SD	2.57	0.45
46:MF:16:ILE:HD13	46:MF:226:ASN:OD1	2.17	0.45
46:MF:238:CYS:SG	46:MF:239:CYS:N	2.90	0.45
46:MJ:295:ASP:OD1	46:MJ:296:ALA:N	2.49	0.45
46:ML:116:VAL:HA	46:ML:119:VAL:HG22	1.98	0.45
46:MN:116:VAL:HA	46:MN:119:VAL:HG22	1.99	0.45
46:NB:372:THR:HA	46:NB:422:TYR:CE1	2.41	0.45
46:NB:381:VAL:HA	46:NB:384:GLN:NE2	2.31	0.45
46:NH:64:ILE:HA	46:NH:89:ASN:HB3	1.99	0.45
46:NH:190:HIS:CD2	46:NH:411:ALA:HA	2.51	0.45
46:NJ:122:LYS:NZ	46:OJ:291:GLN:HG3	2.32	0.45
45:NK:140:SER:HA	45:NK:171:ILE:HB	1.98	0.45
45:NK:141:VAL:HG22	45:NK:187:SER:HA	1.98	0.45
46:NL:165:GLU:HB2	46:NL:198:GLU:OE1	2.17	0.45
46:NL:208:TYR:HA	46:NL:211:CYS:SG	2.57	0.45
46:NL:238:CYS:HB2	46:NL:318:ARG:NH1	2.32	0.45
45:NM:121:ARG:HA	45:NM:121:ARG:NH1	2.32	0.45
45:OA:174:SER:HB3	45:OA:207:GLU:OE2	2.16	0.45
46:OB:39:ASP:OD1	46:OB:43:GLN:NE2	2.50	0.45
46:OB:179:VAL:HG13	46:OB:180:VAL:HG13	1.98	0.45
46:OD:20:PHE:CD1	46:OD:233:MET:HE3	2.52	0.45
46:OD:282:ARG:HH12	46:OD:292:GLN:HE22	1.65	0.45
46:OF:286:VAL:HG21	46:OF:325:GLU:OE2	2.17	0.45
45:OG:320:ARG:HB2	45:OG:358:GLN:O	2.17	0.45
45:OI:288:VAL:HA	45:OI:291:ILE:HG12	1.98	0.45
46:ON:125:GLU:OE1	46:PN:336:LYS:NZ	2.50	0.45
45:PE:180:ALA:HA	46:PF:350:LYS:HE2	1.98	0.45
45:PE:313:MET:HB2	45:PE:380:ASN:O	2.17	0.45
46:PF:2:ARG:HE	46:PF:240:LEU:HG	1.82	0.45
45:PG:141:VAL:HG12	45:PG:171:ILE:O	2.16	0.45
46:PH:289:LEU:HD23	46:PH:289:LEU:HA	1.73	0.45
46:PJ:9:GLY:HA2	46:PJ:66:MET:O	2.17	0.45
46:PL:175:VAL:O	46:PL:175:VAL:HG23	2.17	0.45
46:PN:22:GLU:OE1	46:PN:80:PRO:HB2	2.17	0.45
46:PN:116:VAL:HA	46:PN:119:VAL:HG12	1.98	0.45
46:PN:201:VAL:HG23	46:PN:301:CYS:SG	2.57	0.45
46:PN:285:THR:HB	46:PN:287:PRO:HD2	1.99	0.45
46:QB:107:THR:HG1	46:QB:108:GLU:CD	2.18	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QC:305:CYS:SG	45:QC:306:ASP:N	2.89	0.45
46:QD:97:ALA:HB3	46:QD:143:THR:HB	1.98	0.45
45:QE:107:HIS:ND1	45:QE:107:HIS:O	2.50	0.45
46:QF:189:VAL:HB	46:QF:415:MET:HE1	1.99	0.45
45:QG:123:ARG:HH22	45:RG:339:ARG:NH1	2.15	0.45
45:QG:220:GLU:C	45:QG:221:ARG:HD3	2.41	0.45
45:QI:324:VAL:HG12	45:QI:326:LYS:H	1.82	0.45
46:QJ:347:ASN:C	46:QJ:347:ASN:HD22	2.24	0.45
46:QL:21:TRP:CZ3	46:QL:61:PRO:HB3	2.52	0.45
46:QL:129:CYS:HB3	45:QM:96:LYS:NZ	2.31	0.45
45:RA:141:VAL:HG12	45:RA:171:ILE:O	2.17	0.45
46:RD:58:ARG:NH1	46:SD:280:GLN:OE1	2.49	0.45
46:RD:390:ARG:HB2	46:RD:390:ARG:NH1	2.32	0.45
45:RE:434:GLU:O	45:RE:437:ILE:HG22	2.17	0.45
45:RG:324:VAL:HG11	45:RG:326:LYS:NZ	2.32	0.45
46:RL:396:HIS:HA	46:RL:399:THR:OG1	2.16	0.45
45:RM:174:SER:CB	45:RM:177:VAL:HB	2.47	0.45
46:SB:48:ASN:O	46:SB:62:ARG:NH2	2.49	0.45
45:SC:288:VAL:O	45:SC:291:ILE:HG22	2.17	0.45
45:SE:141:VAL:HG12	45:SE:171:ILE:O	2.16	0.45
45:SE:253:THR:HA	45:SE:256:GLN:HE22	1.81	0.45
45:SG:317:MET:HE1	45:SG:319:TYR:CE1	2.52	0.45
46:SJ:375:GLN:CD	46:SJ:379:LYS:HZ3	2.25	0.45
46:SJ:391:ARG:HA	46:SJ:391:ARG:HD2	1.81	0.45
46:SL:4:ILE:HD11	46:SL:50:TYR:CE2	2.52	0.45
45:SM:201:ALA:O	45:SM:267:PHE:HA	2.16	0.45
46:TB:9:GLY:HA2	46:TB:66:MET:O	2.17	0.45
46:TB:232:ALA:O	46:TB:236:VAL:HG23	2.17	0.45
45:TC:34:GLY:O	45:TC:60:LYS:HA	2.17	0.45
45:TC:56:THR:OG1	45:UC:282:TYR:O	2.35	0.45
46:TD:315:ALA:HB1	46:TD:317:PHE:HE1	1.82	0.45
46:TF:87:PRO:HA	46:TF:90:PHE:HD2	1.81	0.45
46:TF:330:MET:SD	46:TF:349:ILE:HG21	2.57	0.45
45:TK:217:LEU:HB3	45:TK:219:ILE:HG13	1.98	0.45
46:TL:28:HIS:C	46:TL:43:GLN:HE21	2.24	0.45
45:TM:288:VAL:HG11	45:TM:323:VAL:HG23	1.99	0.45
45:TM:319:TYR:HB3	45:TM:373:ARG:NH1	2.32	0.45
45:UC:326:LYS:HD3	46:UD:220:PRO:HD2	1.99	0.45
46:UD:183:TYR:CD1	46:UD:388:MET:HE3	2.52	0.45
46:UD:398:TYR:O	46:UD:403:MET:HB3	2.16	0.45
45:UE:256:GLN:CD	46:UF:397:TRP:HZ2	2.25	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UE:352:LYS:HZ1	46:UF:179:VAL:HG13	1.81	0.45
46:UF:327:ASP:O	46:UF:330:MET:HB2	2.17	0.45
46:UF:376:GLU:HA	46:UF:379:LYS:CG	2.46	0.45
46:UH:131:GLN:O	46:UH:162:ARG:NE	2.50	0.45
46:UH:342:VAL:HG13	46:UH:345:ILE:HG22	1.98	0.45
46:UL:344:TRP:HE3	46:UL:345:ILE:HG23	1.81	0.45
45:UM:174:SER:HA	45:UM:205:ASP:OD2	2.17	0.45
46:UN:3:GLU:HG3	46:UN:62:ARG:NH1	2.31	0.45
46:UN:396:HIS:HA	46:UN:399:THR:HG22	1.99	0.45
46:UN:406:MET:O	46:UN:410:GLU:HG3	2.16	0.45
45:VA:76:ASP:OD2	46:VB:46:ARG:NH2	2.50	0.45
45:VA:141:VAL:HG12	45:VA:171:ILE:O	2.17	0.45
46:VB:139:LEU:HD13	46:VB:168:SER:HB3	1.98	0.45
46:VB:318:ARG:NH1	46:VB:358:PRO:HG3	2.32	0.45
46:VD:183:TYR:CE1	46:VD:388:MET:HE3	2.52	0.45
46:VD:372:THR:HA	46:VD:422:TYR:CE2	2.48	0.45
45:VG:172:TYR:HE2	45:VG:203:MET:HE1	1.81	0.45
46:VH:114:ASP:O	46:VH:117:LEU:HG	2.17	0.45
45:VI:3:GLU:OE2	45:VI:131:GLY:N	2.50	0.45
45:VI:187:SER:O	45:VI:191:THR:HG23	2.15	0.45
46:VL:8:GLN:HG3	46:VL:14:ASN:ND2	2.32	0.45
45:WA:35:GLN:OE1	45:WA:35:GLN:N	2.50	0.45
45:WA:221:ARG:HH22	46:WB:324:LYS:HG3	1.82	0.45
45:WC:317:MET:HE1	45:WC:351:PHE:HD1	1.82	0.45
45:WG:401:LYS:HZ3	46:WH:344:TRP:CG	2.35	0.45
45:WI:74:VAL:O	45:WI:77:GLU:HG3	2.16	0.45
45:WI:205:ASP:OD1	45:WI:303:ALA:HA	2.17	0.45
46:WJ:64:ILE:HA	46:WJ:89:ASN:HB3	1.99	0.45
45:WM:217:LEU:HB3	45:WM:219:ILE:HG12	1.99	0.45
45:CE:319:TYR:HB3	45:CE:323:VAL:HG11	1.98	0.45
2:0B:214:LYS:HB2	45:JI:48:ALA:HB2	1.97	0.45
4:0D:113:GLN:HB3	25:1R:516:GLN:NE2	2.32	0.45
5:0E:46:ASP:N	5:0E:46:ASP:OD1	2.49	0.45
13:0U:521:ASP:OD1	13:0U:523:GLN:NE2	2.49	0.45
15:0X:31:ASP:OD2	15:0X:34:TYR:N	2.50	0.45
4:1D:179:LYS:HE3	4:1D:180:ARG:H	1.81	0.45
17:1F:110:LYS:HG3	17:1F:110:LYS:O	2.17	0.45
17:1F:160:ASN:O	17:1F:161:ILE:HG12	2.16	0.45
7:1G:143:ASP:N	7:1G:143:ASP:OD1	2.49	0.45
21:1L:464:TYR:CE2	21:1L:468:ARG:HD2	2.52	0.45
21:1L:892:ARG:HE	21:1L:892:ARG:HA	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:1N:366:GLU:HA	9:1N:369:GLN:CG	2.46	0.45
23:1O:93:ALA:O	23:1O:96:GLN:HG3	2.16	0.45
23:1O:227:GLU:O	23:1O:231:GLU:OE1	2.35	0.45
24:1P:222:LEU:HD12	45:TG:282:TYR:CE1	2.52	0.45
25:1R:88:TYR:HE1	45:MC:35:GLN:NE2	2.15	0.45
25:1R:89:GLN:HE22	30:2H:216:ILE:HB	1.80	0.45
12:1T:120:LEU:HD21	12:1T:178:LEU:HD21	1.98	0.45
13:1U:265:SER:HB3	13:1U:272:LEU:HD11	1.99	0.45
29:2G:46:ASN:C	29:2G:48:TYR:H	2.24	0.45
31:2I:95:LYS:HB2	46:GF:332:ASN:HD21	1.82	0.45
23:2O:254:LYS:HD3	45:UI:58:ALA:HB1	1.98	0.45
10:2Q:33:HIS:CE1	10:2Q:50:MET:HB2	2.51	0.45
25:2R:306:LYS:HE3	25:2R:322:VAL:HA	1.98	0.45
25:2R:471:ASN:HB2	25:2R:479:PHE:CD1	2.52	0.45
11:2S:309:MET:HE2	11:2S:309:MET:HB2	1.87	0.45
12:2T:83:GLN:OE1	45:MG:412:GLY:HA2	2.17	0.45
14:2V:101:ILE:HA	45:LE:415:GLU:OE2	2.17	0.45
14:2V:121:GLU:C	14:2V:122:LYS:HD2	2.42	0.45
26:2W:191:ILE:HG22	26:2W:194:HIS:H	1.81	0.45
26:2W:245:LEU:O	26:2W:249:LYS:HG3	2.17	0.45
1:3A:125:LEU:H	46:AN:279:GLN:HE22	1.65	0.45
16:3B:111:ARG:HG2	16:3B:113:ASN:H	1.82	0.45
27:3C:111:PHE:CE2	27:3C:167:ARG:HB2	2.51	0.45
32:3D:223:ALA:HA	32:3D:226:LYS:HZ2	1.81	0.45
25:3R:455:ASN:OD1	46:FL:219:THR:HB	2.17	0.45
25:3R:508:LYS:O	25:3R:512:ASN:ND2	2.50	0.45
13:3U:367:CYS:SG	13:3U:410:ALA:HA	2.57	0.45
13:3U:385:LYS:NZ	13:3U:402:ASP:H	2.13	0.45
14:3V:141:ASN:ND2	45:LC:402:ARG:O	2.50	0.45
27:4C:229:ASN:CG	27:4C:230:ASP:H	2.10	0.45
10:4Q:15:TYR:HB2	10:4Q:164:ARG:HE	1.81	0.45
10:4Q:92:GLN:HG2	10:4Q:152:LEU:HB2	1.99	0.45
34:4R:191:PHE:CD2	34:4R:198:MET:HE3	2.52	0.45
34:4R:267:LEU:HD12	34:4R:268:GLU:HG2	1.98	0.45
34:4R:461:LYS:NZ	46:FF:218:THR:HG21	2.32	0.45
35:4S:184:ARG:HA	35:4S:240:MET:HE1	1.99	0.45
15:4X:18:ILE:HD11	46:LL:81:PHE:HE1	1.82	0.45
36:5D:21:GLN:OE1	46:KN:409:THR:HG22	2.17	0.45
36:5D:32:ALA:O	36:5D:34:PHE:N	2.50	0.45
37:5G:108:LYS:NZ	46:NJ:37:HIS:HA	2.31	0.45
34:5R:80:ARG:NH2	45:MI:36:MET:O	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:5R:399:GLY:HA2	34:5R:402:TYR:HD2	1.81	0.45
34:5R:509:ASP:O	34:5R:512:THR:OG1	2.23	0.45
40:6G:194:VAL:O	40:6G:197:GLU:HG3	2.17	0.45
34:6R:426:PHE:CE1	34:6R:512:THR:HG21	2.52	0.45
45:AC:311:LYS:N	45:AC:382:THR:OG1	2.50	0.45
45:AE:112:LYS:NZ	45:AE:113:GLU:OE2	2.39	0.45
45:AE:251:ASP:H	45:AE:254:GLU:HG2	1.82	0.45
46:AH:226:ASN:ND2	49:AH:501:GDP:HN1	2.14	0.45
45:AI:64:ARG:NH1	45:AI:129:CYS:SG	2.89	0.45
46:AJ:268:ILE:HG22	46:AJ:368:VAL:HG22	1.99	0.45
46:AJ:323:THR:HG22	46:AJ:353:ILE:HD13	1.98	0.45
46:AL:201:VAL:HG23	46:AL:301:CYS:SG	2.57	0.45
45:AM:214:ARG:HG2	45:AM:214:ARG:HH11	1.80	0.45
46:AN:54:ALA:HA	46:BN:283:ALA:HB2	1.98	0.45
46:AN:272:PRO:HG3	46:AN:284:LEU:HD11	1.99	0.45
45:BA:88:HIS:O	45:BA:90:GLU:N	2.50	0.45
46:BD:103:LYS:HA	46:BD:401:GLU:OE2	2.17	0.45
46:BD:230:SER:HA	46:BD:233:MET:HE3	1.99	0.45
46:BF:106:TYR:CD2	46:BF:403:MET:HE2	2.52	0.45
46:BH:1:MET:O	46:BH:2:ARG:HG2	2.17	0.45
46:BH:116:VAL:HA	46:BH:119:VAL:HG22	1.99	0.45
46:BL:184:ASN:OD1	46:BL:185:ALA:N	2.50	0.45
45:BM:214:ARG:HA	45:BM:214:ARG:HD2	1.67	0.45
46:CB:46:ARG:NH2	45:CC:76:ASP:OD1	2.49	0.45
45:CI:183:GLU:N	45:CI:184:PRO:HD2	2.32	0.45
46:CJ:116:VAL:O	46:CJ:120:VAL:HG23	2.17	0.45
46:CJ:289:LEU:HD11	46:CJ:363:MET:HG3	1.99	0.45
45:CK:68:LEU:HD21	45:CK:118:CYS:HB2	1.98	0.45
46:CL:12:CYS:O	46:CL:16:ILE:HG12	2.17	0.45
46:CN:273:LEU:H	46:CN:292:GLN:NE2	2.15	0.45
46:DB:167:PHE:CE1	46:DB:233:MET:HG3	2.50	0.45
46:DJ:312:THR:HG22	46:DJ:370:ASN:HB3	1.98	0.45
46:DJ:362:LYS:HG3	46:DJ:363:MET:HG2	1.98	0.45
45:EA:64:ARG:NH1	45:EA:129:CYS:SG	2.90	0.45
46:EB:212:PHE:CE2	46:EB:220:PRO:HG2	2.51	0.45
45:EC:91:GLN:CD	45:EC:121:ARG:HE	2.24	0.45
46:ED:325:GLU:HB2	45:EE:221:ARG:CZ	2.46	0.45
45:EG:209:ILE:CD1	45:EG:227:LEU:HD23	2.47	0.45
46:EH:258:ILE:HG13	46:EH:258:ILE:O	2.17	0.45
45:EK:200:VAL:HG13	45:EK:268:MET:HE2	1.98	0.45
46:EL:65:LEU:HD22	46:EL:90:PHE:CE1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EL:412:GLU:HA	46:EL:415:MET:HG3	1.99	0.45
45:FA:51:THR:HG22	45:FA:52:PHE:CD1	2.52	0.45
46:FB:116:VAL:HA	46:FB:119:VAL:HG12	1.98	0.45
46:FB:216:LYS:HD2	46:FB:216:LYS:O	2.17	0.45
45:FC:371:VAL:HG12	45:FC:373:ARG:H	1.82	0.45
46:FD:321:MET:HB2	46:FD:325:GLU:OE2	2.17	0.45
46:FF:230:SER:HA	46:FF:233:MET:CE	2.47	0.45
46:FF:318:ARG:HH11	46:FF:358:PRO:HG3	1.82	0.45
45:FI:21:TRP:CZ3	45:FI:63:PRO:HB3	2.52	0.45
46:FJ:222:TYR:HD1	49:FJ:501:GDP:C6	2.35	0.45
46:GB:166:THR:HG21	46:GB:192:LEU:HD11	1.99	0.45
45:GC:107:HIS:ND1	45:GC:107:HIS:O	2.48	0.45
46:GD:317:PHE:HB3	46:GD:321:MET:HE1	1.99	0.45
45:GG:346:TRP:CD1	46:GJ:391:ARG:HG3	2.51	0.45
45:GK:185:TYR:O	45:GK:188:ILE:HG22	2.16	0.45
46:GL:6:HIS:NE2	46:GL:8:GLN:OE1	2.50	0.45
46:GL:171:PRO:HB3	46:GL:181:GLU:OE1	2.17	0.45
45:HA:311:LYS:HD2	45:HA:343:PHE:C	2.41	0.45
46:HD:107:THR:OG1	46:HD:108:GLU:OE1	2.23	0.45
46:HD:316:LEU:HD23	46:HD:352:SER:HB2	1.98	0.45
46:HF:295:ASP:OD1	46:HF:296:ALA:N	2.49	0.45
45:HI:107:HIS:O	45:HI:107:HIS:ND1	2.50	0.45
45:HI:175:PRO:HG3	45:HI:390:ARG:CZ	2.47	0.45
45:HI:227:LEU:O	45:HI:231:ILE:HG12	2.16	0.45
45:HI:401:LYS:HZ1	46:HJ:344:TRP:CD1	2.35	0.45
46:HL:22:GLU:HG2	46:HL:81:PHE:CD1	2.51	0.45
45:HM:21:TRP:CZ2	45:HM:65:ALA:HB2	2.52	0.45
46:HN:118:ASP:HA	46:HN:121:ARG:NH1	2.32	0.45
46:HN:221:THR:HG23	46:HN:223:GLY:H	1.81	0.45
46:IB:87:PRO:HA	46:IB:90:PHE:HD2	1.82	0.45
46:ID:19:LYS:NZ	46:ID:223:GLY:O	2.40	0.45
46:ID:165:GLU:HG3	46:ID:200:MET:HE1	1.98	0.45
45:IE:209:ILE:HA	45:IE:212:ILE:HD12	1.98	0.45
45:IE:256:GLN:HB2	46:IH:397:TRP:HH2	1.82	0.45
46:IF:21:TRP:CZ3	46:IF:61:PRO:HB3	2.52	0.45
46:IF:299:MET:HE1	46:IF:367:PHE:HE2	1.82	0.45
45:II:346:TRP:CD1	46:IL:391:ARG:HG3	2.51	0.45
45:IK:200:VAL:HG13	45:IK:268:MET:SD	2.57	0.45
46:IL:97:ALA:HB3	46:IL:143:THR:HB	1.99	0.45
45:JA:167:LEU:HD13	45:JA:200:VAL:HB	1.98	0.45
45:JC:46:ASP:N	45:JC:46:ASP:OD1	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JE:10:GLY:O	45:JE:14:ILE:HG12	2.17	0.45
45:JE:288:VAL:HA	45:JE:291:ILE:HG22	1.98	0.45
45:JG:141:VAL:HG11	45:JG:172:TYR:CD1	2.52	0.45
46:JH:21:TRP:CH2	46:JH:61:PRO:HB3	2.51	0.45
46:JL:20:PHE:CZ	46:JL:233:MET:HE2	2.52	0.45
46:JL:247:ASN:O	46:JL:252:LYS:NZ	2.39	0.45
45:JM:35:GLN:N	45:JM:35:GLN:OE1	2.50	0.45
45:JM:387:VAL:HG12	45:JM:390:ARG:NH1	2.32	0.45
45:JM:407:TRP:CZ2	46:JN:258:ILE:HG23	2.52	0.45
46:JN:73:MET:HA	46:JN:76:VAL:HG12	1.98	0.45
45:KA:72:PRO:HD2	46:KB:2:ARG:NH2	2.32	0.45
45:KC:10:GLY:O	45:KC:14:ILE:HG12	2.17	0.45
46:KF:10:GLY:O	46:KF:14:ASN:ND2	2.50	0.45
46:KF:202:ILE:HD11	46:KF:207:LEU:HD11	1.99	0.45
45:KG:5:ILE:HD12	45:KG:125:LEU:HD23	1.99	0.45
46:KH:395:LEU:O	46:KH:399:THR:HG23	2.17	0.45
46:KJ:83:GLN:N	46:KJ:83:GLN:OE1	2.49	0.45
46:KL:21:TRP:CZ3	46:KL:61:PRO:HB3	2.52	0.45
46:KL:61:PRO:HG2	46:KL:85:PHE:CD1	2.45	0.45
46:KL:232:ALA:HB1	46:KL:268:ILE:HD12	1.98	0.45
45:KM:328:VAL:HG11	45:KM:353:VAL:HG21	1.99	0.45
46:LB:284:LEU:HD23	46:LB:284:LEU:HA	1.87	0.45
46:LB:289:LEU:O	46:LB:293:MET:HG2	2.17	0.45
45:LC:434:GLU:O	45:LC:437:ILE:HG12	2.17	0.45
45:LK:27:GLU:CD	45:LK:243:ARG:HH12	2.24	0.45
46:LL:17:GLY:O	46:LL:21:TRP:HD1	2.00	0.45
45:LM:174:SER:HB3	45:LM:207:GLU:CD	2.41	0.45
46:LN:177:ASP:OD1	46:LN:178:THR:N	2.50	0.45
46:MD:215:LEU:HD21	46:MD:273:LEU:HD23	1.99	0.45
45:ME:205:ASP:OD1	45:ME:303:ALA:HA	2.16	0.45
45:MG:414:GLU:CD	45:MG:416:GLY:H	2.24	0.45
46:MH:147:MET:HB3	46:MH:147:MET:HE2	1.69	0.45
45:MK:154:LEU:HD23	45:MK:157:LEU:HD21	1.98	0.45
46:ML:372:THR:HA	46:ML:422:TYR:CE2	2.52	0.45
45:MM:328:VAL:HG11	45:MM:353:VAL:HG21	1.98	0.45
46:MN:36:TYR:HB2	46:MN:59:TYR:HE1	1.82	0.45
45:NA:98:ASP:O	45:NA:105:ARG:NH2	2.48	0.45
45:NA:261:PRO:HA	46:ND:394:PHE:CE1	2.52	0.45
45:NA:269:LEU:HD23	45:NA:384:ILE:HD13	1.98	0.45
45:NA:339:ARG:O	45:NA:342:GLN:NE2	2.50	0.45
45:NC:284:GLU:HG3	45:NC:285:GLN:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NE:88:HIS:HB3	45:NE:91:GLN:CD	2.41	0.45
45:NG:338:LYS:HG3	45:NG:340:THR:HG22	1.99	0.45
46:NH:116:VAL:HA	46:NH:119:VAL:HG12	1.99	0.45
45:NI:172:TYR:HD1	45:NI:173:PRO:HD2	1.82	0.45
46:NJ:39:ASP:H	46:NJ:43:GLN:HE22	1.64	0.45
45:NK:165:SER:HA	45:NK:199:ASP:OD2	2.16	0.45
45:OA:141:VAL:HG22	45:OA:187:SER:HA	1.99	0.45
46:OD:46:ARG:HH21	46:OD:240:LEU:C	2.24	0.45
46:OD:103:LYS:HB3	46:OD:103:LYS:HE3	1.78	0.45
46:OD:175:VAL:HG11	46:OD:208:TYR:CE2	2.52	0.45
46:OJ:167:PHE:CE1	46:OJ:233:MET:HE3	2.52	0.45
46:OJ:389:PHE:O	46:OJ:392:LYS:NZ	2.48	0.45
45:OK:172:TYR:HE2	45:OK:203:MET:HE1	1.81	0.45
45:OK:217:LEU:HB3	45:OK:219:ILE:HG12	1.99	0.45
46:OL:203:ASP:O	46:OL:207:LEU:HG	2.17	0.45
45:OM:139:ASN:OD1	45:OM:140:SER:N	2.49	0.45
46:ON:23:VAL:O	46:ON:27:GLU:OE1	2.34	0.45
46:ON:190:HIS:ND1	46:ON:411:ALA:HA	2.31	0.45
45:PC:350:GLY:C	46:PF:179:VAL:HG12	2.42	0.45
45:PC:387:VAL:O	45:PC:390:ARG:HG3	2.17	0.45
46:PD:28:HIS:HA	46:PD:43:GLN:CD	2.41	0.45
45:PE:2:ARG:NH2	45:PE:242:LEU:HD23	2.31	0.45
46:PF:318:ARG:HB2	46:PF:364:ALA:HB3	1.99	0.45
45:PG:201:ALA:HB3	45:PG:267:PHE:HD1	1.81	0.45
45:PG:203:MET:HE2	45:PG:203:MET:HA	1.98	0.45
45:PG:310:GLY:HA3	45:PG:383:ALA:HB2	1.99	0.45
45:PI:55:GLU:OE1	45:PI:56:THR:N	2.50	0.45
46:PJ:294:PHE:HD2	46:PJ:333:VAL:HG21	1.79	0.45
46:PN:345:ILE:O	46:PN:345:ILE:HG13	2.17	0.45
46:QB:21:TRP:HE1	46:QB:63:ALA:HB2	1.82	0.45
46:QB:267:MET:CE	46:QB:299:MET:HE2	2.46	0.45
45:QC:256:GLN:NE2	46:QD:397:TRP:HE1	2.15	0.45
45:QE:231:ILE:O	45:QE:235:ILE:HG12	2.17	0.45
45:QE:259:LEU:HD22	45:QE:268:MET:HE1	1.99	0.45
45:QG:89:PRO:HD3	45:RG:280:LYS:HE3	1.98	0.45
45:QK:69:ASP:O	45:QK:94:SER:HA	2.15	0.45
45:QK:88:HIS:HB3	45:QK:91:GLN:CG	2.46	0.45
46:QL:138:SER:HA	46:QL:169:VAL:HB	1.99	0.45
46:QL:187:LEU:HD21	46:QL:408:PHE:CE2	2.52	0.45
46:RB:397:TRP:O	46:RB:401:GLU:HG3	2.16	0.45
45:RC:432:TYR:HA	45:RC:435:VAL:HG12	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RD:86:ARG:NH2	46:SD:282:ARG:HA	2.32	0.45
45:RE:103:PHE:HB2	45:RE:186:ASN:HB3	1.99	0.45
45:RE:140:SER:OG	47:RE:501:GTP:O2B	2.20	0.45
45:RE:209:ILE:HG23	45:RE:227:LEU:HD22	1.99	0.45
45:RG:229:ARG:HH12	45:RG:366:GLY:HA2	1.80	0.45
45:RG:326:LYS:HD2	46:RH:212:PHE:CZ	2.50	0.45
46:RH:45:GLU:HG3	46:RH:46:ARG:HG2	1.99	0.45
46:RH:318:ARG:HH11	46:RH:358:PRO:HG3	1.80	0.45
45:RK:384:ILE:O	45:RK:387:VAL:HG22	2.16	0.45
46:SB:45:GLU:O	46:SB:46:ARG:HD3	2.16	0.45
46:SB:65:LEU:HD22	46:SB:90:PHE:CE1	2.51	0.45
45:SE:11:GLN:OE1	45:SE:15:GLN:NE2	2.49	0.45
45:SE:333:ALA:O	45:SE:337:THR:HG23	2.16	0.45
45:SE:377:MET:SD	45:SE:379:SER:HB3	2.56	0.45
46:SF:293:MET:HE3	46:SF:299:MET:HE1	1.97	0.45
45:SG:51:THR:HB	45:SG:243:ARG:HD3	1.99	0.45
45:SI:151:SER:O	45:SI:155:GLU:HG2	2.17	0.45
45:SI:287:SER:O	45:SI:291:ILE:HG23	2.16	0.45
45:SI:317:MET:HE2	45:SI:319:TYR:CE1	2.52	0.45
46:SJ:86:ARG:NH1	46:SJ:87:PRO:HD2	2.32	0.45
46:SJ:324:LYS:HE2	46:SJ:324:LYS:HB2	1.68	0.45
46:SL:321:MET:SD	46:SL:363:MET:HG3	2.57	0.45
45:SM:226:ASN:O	45:SM:230:LEU:HD23	2.17	0.45
45:TC:141:VAL:HG22	45:TC:187:SER:HA	1.99	0.45
46:TF:289:LEU:O	46:TF:293:MET:HB2	2.16	0.45
46:TH:324:LYS:HD3	45:TI:222:PRO:HD2	1.98	0.45
46:TJ:380:ARG:HE	46:TJ:380:ARG:HB3	1.64	0.45
45:TM:93:ILE:HG22	45:TM:114:ILE:HD11	1.99	0.45
46:TN:3:GLU:HG3	46:TN:62:ARG:HH12	1.81	0.45
46:UB:193:VAL:O	46:UB:262:ARG:NH2	2.50	0.45
45:UC:254:GLU:O	45:UC:258:ASN:ND2	2.50	0.45
46:UD:325:GLU:O	46:UD:328:GLU:HG2	2.17	0.45
46:UF:313:ALA:HB1	46:UF:367:PHE:HE1	1.81	0.45
46:UJ:7:ILE:HB	46:UJ:135:ILE:HG12	1.99	0.45
45:UK:51:THR:HG22	45:UK:52:PHE:CD1	2.52	0.45
45:UK:254:GLU:O	45:UK:255:PHE:HD1	2.00	0.45
45:UK:384:ILE:O	45:UK:387:VAL:HG22	2.17	0.45
46:UL:6:HIS:CD2	46:UL:21:TRP:HE1	2.35	0.45
46:UL:235:GLY:HA3	46:UL:366:THR:HG21	1.98	0.45
46:UN:69:GLU:CD	46:UN:71:GLY:H	2.24	0.45
46:UN:405:GLU:HA	46:UN:408:PHE:CD2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VA:109:THR:HB	45:VA:110:ILE:HD12	1.98	0.45
45:VA:224:TYR:HA	45:VA:227:LEU:HD23	1.99	0.45
45:VA:261:PRO:HG3	46:VD:394:PHE:CZ	2.52	0.45
46:VB:196:ALA:HB3	46:VB:264:HIS:CE1	2.52	0.45
46:VB:309:ARG:H	46:VB:372:THR:HG1	1.64	0.45
45:VC:88:HIS:NE2	45:WC:284:GLU:OE2	2.46	0.45
45:VC:261:PRO:O	46:VF:396:HIS:NE2	2.50	0.45
46:VF:310:TYR:CD1	46:VF:371:SER:HB2	2.52	0.45
45:VG:147:SER:HB2	45:VG:190:SER:HB3	1.98	0.45
45:VG:245:ASP:OD2	45:VG:245:ASP:N	2.47	0.45
45:VI:352:LYS:HE2	46:VL:177:ASP:O	2.17	0.45
46:VL:114:ASP:O	46:VL:117:LEU:HG	2.17	0.45
45:VM:212:ILE:HD11	45:VM:300:ASN:HA	1.98	0.45
46:VN:247:ASN:O	46:VN:252:LYS:NZ	2.35	0.45
46:VN:274:THR:HB	46:VN:282:ARG:HH11	1.82	0.45
45:WA:133:GLN:HA	45:WA:133:GLN:NE2	2.31	0.45
45:WA:262:TYR:OH	46:WD:391:ARG:O	2.30	0.45
46:WB:317:PHE:HD1	46:WB:365:VAL:HG22	1.81	0.45
46:WD:109:GLY:CA	46:WD:147:MET:HE2	2.46	0.45
46:WF:67:ASP:OD1	46:WF:68:LEU:N	2.47	0.45
45:CE:2:ARG:HB2	45:CE:133:GLN:HE22	1.81	0.45
2:0B:53:LEU:HD12	2:0B:53:LEU:HA	1.84	0.45
2:0B:304:ARG:NH2	45:KI:322:ASP:HB3	2.32	0.45
4:0D:35:LYS:HG2	4:0D:36:TYR:N	2.32	0.45
6:0F:42:VAL:HG13	6:0F:43:GLN:HG2	1.99	0.45
7:0G:114:LYS:CD	7:0G:115:PRO:HD2	2.45	0.45
9:0N:34:LEU:HA	9:0N:37:LYS:HZ2	1.80	0.45
9:0N:245:LYS:HA	9:0N:264:ARG:HH22	1.81	0.45
10:0Q:61:ALA:HB1	10:0Q:69:LEU:HD13	1.99	0.45
15:0X:42:LYS:HE3	15:0X:45:GLN:OE1	2.17	0.45
16:1B:43:ARG:HD3	16:1B:43:ARG:C	2.42	0.45
16:1B:45:GLU:O	16:1B:49:PHE:HB2	2.17	0.45
16:1B:63:GLN:H	45:LC:84:ARG:NH2	2.15	0.45
16:1B:174:ASN:O	16:1B:174:ASN:ND2	2.50	0.45
16:1B:244:LYS:HE3	16:1B:383:TYR:CE2	2.52	0.45
3:1C:97:LYS:O	3:1C:101:LEU:HD23	2.17	0.45
4:1D:85:VAL:HG13	4:1D:87:GLU:OE1	2.16	0.45
5:1E:13:ARG:NH2	5:1E:86:CYS:O	2.50	0.45
7:1G:180:PRO:HG2	46:LD:174:LYS:HE2	1.99	0.45
8:1H:136:MET:O	8:1H:140:PHE:HD2	2.00	0.45
20:1K:80:ARG:NH2	22:1M:285:LYS:HB3	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:1L:314:ASN:HB2	46:BH:320:ARG:NH2	2.33	0.45
21:1L:408:LEU:H	21:1L:408:LEU:HD23	1.81	0.45
21:1L:512:LEU:HD11	21:1L:566:VAL:CG2	2.47	0.45
21:1L:738:VAL:HG13	21:1L:739:LEU:HD22	1.99	0.45
22:1M:123:MET:SD	22:1M:267:LEU:HD23	2.56	0.45
9:1N:80:PHE:CE1	9:1N:269:GLN:HG3	2.52	0.45
9:1N:227:ASN:HA	29:2G:42:ASN:HD21	1.82	0.45
9:1N:428:HIS:HD1	9:1N:430:ASP:H	1.65	0.45
24:1P:300:LYS:HA	24:1P:303:GLN:HG3	1.98	0.45
1:2A:119:PHE:CG	1:2A:120:GLY:N	2.85	0.45
16:2B:15:LYS:HG3	16:2B:175:ALA:O	2.17	0.45
5:2E:117:ILE:HG13	5:2E:120:LEU:HD12	1.99	0.45
31:2I:51:ALA:H	46:GH:306:ARG:NH1	2.15	0.45
20:2K:344:ARG:O	20:2K:347:ASN:N	2.48	0.45
20:2K:457:GLN:O	20:2K:460:LEU:HG	2.17	0.45
22:2M:145:ASP:HA	22:2M:148:VAL:HG12	1.99	0.45
9:2N:258:THR:HB	46:LB:276:ARG:HH12	1.82	0.45
23:2O:194:GLU:HA	23:2O:197:LYS:HZ2	1.81	0.45
23:2O:213:GLN:O	23:2O:216:GLU:HG3	2.17	0.45
23:2O:431:ILE:O	23:2O:435:GLU:OE1	2.35	0.45
24:2P:354:LYS:O	24:2P:357:ILE:HB	2.17	0.45
25:2R:296:PRO:HB2	25:2R:297:LEU:HD12	1.98	0.45
13:2U:235:LYS:NZ	13:2U:271:VAL:HG22	2.32	0.45
26:2W:183:SER:OG	45:KM:45:GLY:N	2.43	0.45
27:3C:65:PHE:O	27:3C:66:LEU:HD23	2.17	0.45
21:3L:45:ARG:NH2	21:3L:47:ARG:HB2	2.24	0.45
23:3O:240:LYS:O	23:3O:243:GLU:HG3	2.16	0.45
23:3O:268:ASN:OD1	23:3O:269:GLN:N	2.50	0.45
23:3O:285:GLU:HA	23:3O:288:LYS:HZ3	1.82	0.45
25:3R:44:VAL:HB	25:3R:46:TYR:CZ	2.52	0.45
25:3R:261:PHE:CE1	25:3R:327:ILE:HG21	2.52	0.45
11:3S:17:LYS:HA	11:3S:17:LYS:HE2	1.99	0.45
12:3T:51:TYR:O	12:3T:55:LYS:HG2	2.16	0.45
13:3U:266:ILE:O	13:3U:267:GLN:HG2	2.17	0.45
13:3U:493:PHE:HZ	13:3U:517:TRP:HH2	1.64	0.45
34:4R:42:THR:HG22	34:4R:45:ILE:HB	1.98	0.45
35:4S:111:GLU:OE1	35:4S:116:TYR:HB2	2.17	0.45
15:4X:104:GLN:O	15:4X:108:LYS:HG2	2.16	0.45
37:5F:44:ARG:NH1	45:NC:56:THR:O	2.49	0.45
10:5Q:72:LYS:HG3	10:5Q:149:ILE:O	2.17	0.45
35:5S:81:HIS:HE1	45:WE:164:LYS:HB2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:5S:161:THR:O	35:5S:165:ILE:HG13	2.17	0.45
10:6Q:83:LEU:HG	10:6Q:85:LYS:HG2	1.97	0.45
10:6Q:104:ARG:NE	45:AM:423:GLU:OE1	2.50	0.45
10:6Q:150:GLU:OE1	10:6Q:152:LEU:HD23	2.17	0.45
34:6R:153:GLN:NE2	34:6R:156:SER:HB2	2.30	0.45
46:AD:40:SER:H	46:AD:43:GLN:HE21	1.64	0.45
45:AE:242:LEU:HD21	45:AE:252:ILE:HG12	1.99	0.45
45:AE:384:ILE:O	45:AE:387:VAL:HG22	2.17	0.45
45:AG:152:LEU:O	45:AG:156:ARG:HG2	2.17	0.45
46:AL:20:PHE:O	46:AL:24:ILE:HG12	2.16	0.45
46:AL:77:ARG:HG3	46:AL:77:ARG:HH11	1.82	0.45
46:AN:3:GLU:CD	46:AN:3:GLU:H	2.24	0.45
45:BA:116:ASP:O	45:BA:119:LEU:HG	2.17	0.45
45:BE:5:ILE:HB	45:BE:135:PHE:CD1	2.52	0.45
46:BH:48:ASN:HA	46:BH:51:TYR:O	2.17	0.45
46:BH:91:VAL:HG21	46:BH:116:VAL:HB	1.98	0.45
45:BI:38:SER:O	45:BI:38:SER:OG	2.35	0.45
45:BI:102:ASN:HB3	45:BI:105:ARG:HD3	1.99	0.45
45:BI:219:ILE:HG22	45:BI:222:PRO:HD3	1.97	0.45
45:BK:24:PHE:CZ	45:BK:52:PHE:HE1	2.35	0.45
46:BL:421:GLU:HA	46:BL:424:GLN:OE1	2.17	0.45
46:BN:316:LEU:HG	46:BN:352:SER:OG	2.16	0.45
45:CC:346:TRP:CD1	46:CD:391:ARG:HG3	2.51	0.45
46:CD:8:GLN:N	46:CD:8:GLN:OE1	2.50	0.45
46:CD:141:GLY:O	46:CD:145:SER:CB	2.64	0.45
46:CF:99:ASN:HA	46:CF:142:GLY:H	1.82	0.45
45:CG:434:GLU:O	45:CG:437:ILE:HG12	2.17	0.45
45:CI:174:SER:HB2	45:CI:177:VAL:O	2.17	0.45
45:CI:432:TYR:HA	45:CI:435:VAL:HG12	1.98	0.45
46:CL:105:HIS:CE1	46:CL:150:LEU:HD12	2.52	0.45
46:CL:276:ARG:HE	46:CL:276:ARG:HB3	1.61	0.45
46:CL:325:GLU:HA	46:CL:328:GLU:CG	2.42	0.45
46:CL:346:PRO:HD2	45:CM:398:MET:HE3	1.99	0.45
45:DA:256:GLN:HB2	45:DA:260:VAL:HB	1.99	0.45
46:DD:344:TRP:HB3	46:DD:430:ALA:HB2	1.99	0.45
45:DE:48:ALA:O	45:DE:51:THR:HG22	2.17	0.45
45:DE:167:LEU:HG	45:DE:200:VAL:HB	1.99	0.45
46:DF:87:PRO:HA	46:DF:90:PHE:HD2	1.82	0.45
46:DJ:46:ARG:NH2	45:DK:76:ASP:OD2	2.50	0.45
45:DM:272:TYR:N	45:DM:302:MET:HE1	2.31	0.45
45:EA:167:LEU:HG	45:EA:200:VAL:HB	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EA:387:VAL:HA	45:EA:390:ARG:HG2	1.99	0.45
46:EF:20:PHE:CE1	46:EF:233:MET:HE2	2.52	0.45
46:EF:239:CYS:HA	46:EF:354:CYS:SG	2.57	0.45
46:EF:263:LEU:HD11	46:EF:421:GLU:OE1	2.17	0.45
46:EJ:134:GLN:HE22	46:EJ:233:MET:HE3	1.82	0.45
45:EM:127:ASP:OD1	45:EM:128:ASN:N	2.50	0.45
45:FA:72:PRO:HA	45:FA:75:ILE:HG22	1.98	0.45
45:FA:221:ARG:NH1	46:FB:325:GLU:H	2.15	0.45
46:FB:6:HIS:O	46:FB:63:ALA:HA	2.17	0.45
46:FD:21:TRP:CZ3	46:FD:61:PRO:HB3	2.52	0.45
46:FD:233:MET:O	46:FD:236:VAL:HG12	2.17	0.45
46:FD:391:ARG:HA	46:FD:391:ARG:HD2	1.78	0.45
45:FG:326:LYS:HA	46:FJ:208:TYR:HE1	1.82	0.45
45:FK:93:ILE:HG22	45:FK:114:ILE:HD11	1.99	0.45
45:FK:181:VAL:HG12	46:FL:347:ASN:O	2.17	0.45
45:GE:221:ARG:CZ	46:GF:322:SER:H	2.30	0.45
45:GE:430:LYS:HA	45:GE:430:LYS:HD3	1.68	0.45
46:GF:293:MET:HE1	46:GF:315:ALA:HB2	1.98	0.45
46:GJ:345:ILE:HG23	46:GJ:348:ASN:HB3	1.98	0.45
45:GK:109:THR:HB	45:GK:110:ILE:HD12	1.99	0.45
45:GM:210:TYR:OH	46:GN:323:THR:OG1	2.34	0.45
46:HD:18:ALA:HB3	46:HD:19:LYS:NZ	2.32	0.45
45:HE:133:GLN:C	45:HE:252:ILE:HD11	2.42	0.45
45:HE:227:LEU:O	45:HE:231:ILE:HG12	2.17	0.45
45:HG:60:LYS:HD2	45:IG:283:HIS:CD2	2.51	0.45
45:HI:105:ARG:O	45:HI:110:ILE:HG22	2.17	0.45
45:HI:188:ILE:HG13	45:HI:425:LEU:HD11	1.99	0.45
45:HK:18:ASN:OD1	45:HK:19:ALA:N	2.50	0.45
46:HN:143:THR:O	46:HN:147:MET:HG2	2.17	0.45
46:IB:273:LEU:H	46:IB:292:GLN:NE2	2.04	0.45
45:IC:10:GLY:O	45:IC:14:ILE:HG12	2.17	0.45
45:IC:296:PHE:CE2	45:IC:335:ILE:HG21	2.51	0.45
46:ID:109:GLY:O	46:ID:113:ILE:HG23	2.16	0.45
45:IG:231:ILE:O	45:IG:235:ILE:HG12	2.17	0.45
46:IH:116:VAL:O	46:IH:120:VAL:HG23	2.16	0.45
46:IJ:12:CYS:O	46:IJ:16:ILE:HG12	2.17	0.45
46:IL:217:LEU:HD23	46:IL:217:LEU:H	1.83	0.45
46:IL:290:THR:HG21	46:IL:329:GLN:HG2	1.97	0.45
46:IN:207:LEU:HB3	46:IN:225:LEU:HD22	1.98	0.45
46:IN:208:TYR:HA	46:IN:211:CYS:SG	2.57	0.45
45:JA:274:PRO:HD3	45:JA:291:ILE:HD11	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JB:280:GLN:HG2	46:JB:281:TYR:CD2	2.52	0.45
46:JD:5:VAL:HG12	46:JD:62:ARG:HD3	1.98	0.45
45:JE:434:GLU:O	45:JE:437:ILE:HG12	2.17	0.45
46:JF:116:VAL:HA	46:JF:119:VAL:HG22	1.98	0.45
45:JG:222:PRO:O	46:JH:322:SER:HB2	2.17	0.45
45:JG:286:LEU:N	45:JG:290:GLU:OE2	2.50	0.45
45:JI:107:HIS:ND1	45:JI:107:HIS:O	2.50	0.45
46:JL:68:LEU:HD12	46:JL:97:ALA:HB2	1.99	0.45
45:JM:2:ARG:HD3	45:JM:242:LEU:HD22	1.99	0.45
46:KB:238:CYS:SG	46:KB:239:CYS:N	2.89	0.45
46:KF:292:GLN:HG2	46:KF:298:ASN:ND2	2.31	0.45
45:KI:118:CYS:O	45:KI:122:ILE:HG12	2.17	0.45
45:KK:10:GLY:O	45:KK:14:ILE:HG12	2.17	0.45
45:KK:188:ILE:HG22	45:KK:421:ALA:HB1	1.99	0.45
46:LB:135:ILE:HG13	46:LB:152:ILE:HD11	1.98	0.45
46:LB:156:ARG:HA	46:LB:156:ARG:HD2	1.72	0.45
46:LD:152:ILE:HD13	46:LD:164:MET:HE1	1.99	0.45
45:LI:155:GLU:HG2	45:LI:197:HIS:NE2	2.32	0.45
46:LJ:201:VAL:HG23	46:LJ:301:CYS:SG	2.57	0.45
46:LJ:257:LEU:O	46:LJ:312:THR:OG1	2.30	0.45
45:LK:19:ALA:HA	45:LK:22:GLU:HG2	1.98	0.45
45:LK:430:LYS:HA	45:LK:433:GLU:OE2	2.16	0.45
45:LM:68:LEU:HD11	45:LM:114:ILE:CG2	2.47	0.45
45:MA:313:MET:N	45:MA:313:MET:SD	2.90	0.45
45:MA:419:SER:O	45:MA:423:GLU:HG2	2.17	0.45
46:MH:273:LEU:H	46:MH:292:GLN:NE2	2.15	0.45
45:MI:66:VAL:HG11	45:MI:122:ILE:HD11	1.98	0.45
46:MJ:3:GLU:HG3	46:MJ:62:ARG:NH1	2.32	0.45
46:MJ:36:TYR:HB2	46:MJ:59:TYR:HE2	1.82	0.45
46:MJ:107:THR:HG23	46:MJ:108:GLU:HG2	1.99	0.45
45:NA:229:ARG:HD3	45:NA:363:VAL:HG11	1.99	0.45
46:NB:125:GLU:OE2	46:OB:336:LYS:NZ	2.49	0.45
46:NB:174:LYS:HB2	46:NB:205:GLU:OE1	2.17	0.45
46:NB:345:ILE:HG22	46:NB:348:ASN:HB3	1.99	0.45
45:NC:138:PHE:CD2	45:NC:169:PHE:HB2	2.51	0.45
45:NC:371:VAL:HG22	45:NC:373:ARG:H	1.82	0.45
45:NE:153:LEU:HD23	45:NE:153:LEU:HA	1.83	0.45
45:NI:132:LEU:O	45:NI:164:LYS:NZ	2.49	0.45
45:NM:224:TYR:CD1	45:NM:227:LEU:HD21	2.51	0.45
46:OB:5:VAL:HG12	46:OB:62:ARG:HD3	1.99	0.45
46:OF:173:PRO:HD3	46:OF:380:ARG:NH1	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OG:88:HIS:NE2	45:OG:90:GLU:HB3	2.32	0.45
46:OH:67:ASP:O	46:OH:92:PHE:HA	2.16	0.45
45:OI:331:SER:O	45:OI:335:ILE:HG12	2.17	0.45
47:OI:501:GTP:O1G	46:OJ:252:LYS:NZ	2.42	0.45
45:OK:88:HIS:O	45:OK:91:GLN:HG2	2.17	0.45
46:OL:165:GLU:HB2	46:OL:200:MET:HE1	1.99	0.45
46:OL:290:THR:HA	46:OL:293:MET:HE2	1.99	0.45
45:OM:407:TRP:HH2	46:ON:254:ALA:HB1	1.80	0.45
46:ON:105:HIS:CE1	46:ON:150:LEU:HD13	2.52	0.45
45:PA:2:ARG:NH2	46:PD:70:PRO:HD2	2.32	0.45
46:PB:310:TYR:HD2	46:PB:341:PHE:HE1	1.65	0.45
45:PC:5:ILE:HD13	45:PC:135:PHE:HE1	1.81	0.45
46:PD:8:GLN:NE2	46:PD:10:GLY:O	2.49	0.45
46:PD:260:PHE:HB3	46:PD:262:ARG:NH2	2.32	0.45
46:PF:347:ASN:C	46:PF:347:ASN:HD22	2.25	0.45
45:PG:223:THR:HG23	45:PG:225:THR:H	1.82	0.45
45:PI:60:LYS:HE3	45:PI:60:LYS:HB3	1.85	0.45
45:PI:297:GLU:HB2	45:PI:300:ASN:ND2	2.32	0.45
46:PL:232:ALA:HB1	46:PL:268:ILE:HD12	1.99	0.45
46:PN:86:ARG:NE	46:PN:87:PRO:HD2	2.32	0.45
46:PN:141:GLY:HA3	49:PN:502:GDP:PB	2.57	0.45
46:QB:66:MET:HE2	46:QB:147:MET:HG2	1.99	0.45
46:QD:101:TRP:HE3	46:QD:403:MET:HE1	1.81	0.45
45:QG:70:LEU:HD13	45:QG:145:THR:OG1	2.17	0.45
45:QG:202:VAL:HA	45:QG:268:MET:O	2.17	0.45
45:QG:393:HIS:O	45:QG:397:LEU:HD23	2.17	0.45
46:QH:108:GLU:O	46:QH:111:GLU:HG3	2.17	0.45
45:QM:271:SER:HA	45:QM:302:MET:HG2	1.98	0.45
45:RC:52:PHE:HZ	45:RC:239:THR:HG21	1.81	0.45
45:RC:91:GLN:N	45:RC:91:GLN:OE1	2.49	0.45
45:RE:52:PHE:HE2	45:RE:243:ARG:NE	2.14	0.45
45:RE:101:ASN:HA	45:RE:144:GLY:H	1.82	0.45
45:RE:363:VAL:HG13	45:RE:366:GLY:HA3	1.99	0.45
46:RF:19:LYS:HD2	46:RF:227:HIS:NE2	2.32	0.45
46:RF:135:ILE:HD11	46:RF:152:ILE:HD11	1.98	0.45
45:RG:17:GLY:HA2	45:RG:20:CYS:SG	2.57	0.45
45:RI:15:GLN:OE1	47:RI:501:GTP:N7	2.49	0.45
46:RL:156:ARG:NE	46:RL:156:ARG:HA	2.32	0.45
46:RL:309:ARG:NH1	46:RL:309:ARG:HB2	2.32	0.45
46:RN:5:VAL:HG12	46:RN:62:ARG:HD3	1.98	0.45
46:SB:164:MET:H	46:SB:197:ASP:HB2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SC:231:ILE:O	45:SC:235:ILE:HG12	2.17	0.45
46:SD:26:ASP:O	46:SD:359:LYS:NZ	2.33	0.45
45:SE:85:GLN:OE1	45:SE:85:GLN:N	2.45	0.45
45:SE:88:HIS:ND1	45:SE:89:PRO:HD2	2.31	0.45
45:SG:60:LYS:HD3	45:TG:283:HIS:CD2	2.52	0.45
45:SG:411:GLU:N	45:SG:411:GLU:OE1	2.49	0.45
46:SH:58:ARG:NH1	46:TH:280:GLN:OE1	2.49	0.45
46:SH:139:LEU:HD13	46:SH:168:SER:HB2	1.98	0.45
46:SJ:254:ALA:O	46:SJ:258:ILE:HG12	2.16	0.45
46:SJ:258:ILE:HG13	45:SK:407:TRP:HE1	1.82	0.45
45:SK:207:GLU:O	45:SK:210:TYR:HB2	2.16	0.45
46:TB:305:PRO:HB2	46:TB:310:TYR:CE1	2.52	0.45
45:TC:28:HIS:HE1	45:TC:243:ARG:HD2	1.81	0.45
45:TC:185:TYR:HE2	45:TC:404:PHE:HB2	1.82	0.45
46:TD:97:ALA:O	46:TD:103:LYS:NZ	2.38	0.45
46:TF:16:ILE:HD13	46:TF:226:ASN:OD1	2.17	0.45
46:TF:210:ILE:HG13	46:TF:211:CYS:N	2.32	0.45
46:TF:273:LEU:H	46:TF:292:GLN:HE22	1.65	0.45
46:TF:345:ILE:HG22	45:TG:398:MET:SD	2.57	0.45
45:TG:135:PHE:O	45:TG:166:LYS:HA	2.17	0.45
45:TG:151:SER:O	45:TG:155:GLU:HG2	2.16	0.45
45:TG:152:LEU:HD11	45:TG:156:ARG:HH22	1.82	0.45
45:TG:408:TYR:HA	45:TG:411:GLU:OE2	2.17	0.45
46:TH:91:VAL:HG21	46:TH:116:VAL:HB	1.98	0.45
45:TI:21:TRP:CZ3	45:TI:63:PRO:HB3	2.52	0.45
45:TI:377:MET:SD	45:TI:379:SER:HB3	2.57	0.45
45:TM:362:VAL:HG12	45:TM:370:LYS:HD3	1.99	0.45
46:TN:52:ASN:OD1	46:TN:62:ARG:NH2	2.49	0.45
46:UB:60:VAL:HG23	46:UB:84:LEU:O	2.17	0.45
46:UB:91:VAL:HG21	46:UB:116:VAL:CG1	2.47	0.45
45:UG:430:LYS:O	45:UG:433:GLU:HG3	2.17	0.45
46:UH:11:GLN:O	46:UH:15:GLN:HG2	2.16	0.45
46:UH:317:PHE:HB3	46:UH:363:MET:HE1	1.98	0.45
46:UJ:256:ASN:HB3	46:UJ:350:LYS:CE	2.47	0.45
45:UK:2:ARG:NH1	46:UL:70:PRO:HD2	2.24	0.45
46:UL:247:ASN:ND2	45:UM:71:GLU:OE1	2.50	0.45
46:UL:257:LEU:HD11	46:UL:314:SER:HB3	1.98	0.45
45:UM:141:VAL:HG22	45:UM:187:SER:HA	1.99	0.45
46:UN:148:GLY:O	46:UN:151:LEU:HG	2.17	0.45
46:UN:184:ASN:OD1	46:UN:185:ALA:N	2.50	0.45
46:VB:257:LEU:HD11	46:VB:314:SER:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VC:210:TYR:CE1	46:VD:324:LYS:HG3	2.52	0.45
45:VC:419:SER:O	45:VC:422:ARG:N	2.50	0.45
46:VH:268:ILE:HG22	46:VH:368:VAL:HG22	1.99	0.45
46:VJ:3:GLU:OE1	46:VJ:127:CYS:HB2	2.17	0.45
46:VJ:299:MET:HE2	46:VJ:299:MET:HA	1.99	0.45
45:VK:377:MET:SD	45:VK:379:SER:HB3	2.57	0.45
46:VL:132:GLY:HA2	46:VL:162:ARG:HB3	1.99	0.45
45:VM:271:SER:HA	45:VM:302:MET:HG2	1.97	0.45
46:VN:20:PHE:O	46:VN:24:ILE:HG12	2.17	0.45
45:WC:52:PHE:HZ	45:WC:239:THR:HG21	1.81	0.45
46:WH:237:THR:HG23	46:WH:241:ARG:HH21	1.82	0.45
45:WI:8:HIS:HB2	45:WI:67:PHE:CD2	2.52	0.45
45:WI:129:CYS:SG	45:WI:130:THR:N	2.89	0.45
45:WI:340:THR:HG23	45:WI:341:ILE:HG13	1.97	0.45
45:WK:36:MET:SD	45:WK:41:THR:HB	2.57	0.45
45:WK:151:SER:O	45:WK:154:LEU:HG	2.17	0.45
45:DC:185:TYR:CE1	45:DC:398:MET:HE3	2.51	0.45
3:0C:95:VAL:HG13	45:EI:364:PRO:HB2	1.99	0.44
3:0C:97:LYS:HA	3:0C:100:LEU:HG	1.99	0.44
6:0F:36:LYS:HA	6:0F:36:LYS:HD3	1.85	0.44
6:0F:108:ARG:HA	6:0F:111:GLU:CD	2.42	0.44
7:0G:128:LEU:O	7:0G:131:SER:OG	2.24	0.44
9:0N:131:ILE:HG23	9:0N:201:VAL:HB	1.98	0.44
13:0U:37:THR:HG22	13:0U:52:ARG:HG3	1.99	0.44
14:0V:24:ARG:HD3	45:MM:430:LYS:HZ3	1.81	0.44
4:1D:7:LEU:O	4:1D:7:LEU:HD23	2.16	0.44
4:1D:36:TYR:HA	4:1D:62:THR:HG22	1.99	0.44
4:1D:36:TYR:O	45:DG:84:ARG:NH2	2.50	0.44
4:1D:81:ARG:NH2	46:EF:361:LEU:O	2.50	0.44
8:1H:72:LEU:HD13	8:1H:75:LEU:HD12	1.99	0.44
8:1H:154:GLU:OE1	33:4F:19:TYR:HD2	2.00	0.44
8:1H:379:GLU:HA	8:1H:382:ARG:CD	2.46	0.44
19:1J:370:TYR:HA	19:1J:373:LYS:NZ	2.31	0.44
20:1K:93:GLN:O	20:1K:96:GLN:HG3	2.17	0.44
20:1K:142:ASN:OD1	20:1K:143:ALA:N	2.50	0.44
20:1K:210:ASP:O	20:1K:214:LYS:NZ	2.50	0.44
20:1K:226:ARG:O	20:1K:230:GLU:HG2	2.17	0.44
23:1O:209:LYS:NZ	45:UC:370:LYS:HG3	2.32	0.44
24:1P:344:ILE:O	24:1P:348:GLU:HG2	2.17	0.44
25:1R:344:GLY:HA3	25:1R:364:GLY:HA2	1.99	0.44
14:1V:249:THR:O	14:1V:252:GLU:HG3	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:2B:48:GLU:HA	16:2B:51:LYS:HG2	1.99	0.44
4:2D:51:GLU:OE1	4:2D:51:GLU:HA	2.17	0.44
4:2D:87:GLU:HB3	45:EK:77:GLU:OE2	2.17	0.44
5:2E:96:ARG:HH11	5:2E:172:SER:HG	1.60	0.44
5:2E:131:LYS:O	5:2E:131:LYS:HG2	2.17	0.44
5:2E:180:HIS:O	5:2E:184:VAL:HG23	2.17	0.44
29:2G:16:GLN:O	29:2G:19:GLN:HG3	2.18	0.44
31:2I:45:LYS:HA	46:GH:332:ASN:OD1	2.17	0.44
21:2L:789:GLN:O	21:2L:793:LEU:HD23	2.17	0.44
23:2O:218:GLU:OE2	23:2O:219:LEU:HD22	2.17	0.44
23:2O:292:TYR:O	23:2O:296:LYS:HG2	2.17	0.44
24:2P:386:GLN:O	24:2P:390:LYS:HG2	2.17	0.44
24:2P:473:LYS:NZ	24:2P:477:SER:HB2	2.31	0.44
10:2Q:22:LEU:HD11	10:2Q:27:LYS:HE3	1.98	0.44
25:2R:87:LEU:HA	45:MG:85:GLN:NE2	2.32	0.44
11:2S:46:TRP:CD1	45:WG:89:PRO:HG3	2.52	0.44
12:2T:231:GLU:OE1	12:2T:231:GLU:N	2.48	0.44
13:2U:189:PHE:HB3	13:2U:192:ILE:HB	1.98	0.44
1:3A:145:SER:C	1:3A:146:PHE:HD1	2.24	0.44
1:3A:152:LYS:HZ1	34:6R:78:ILE:N	2.15	0.44
16:3B:21:LYS:HD2	16:3B:21:LYS:O	2.17	0.44
5:3E:11:ARG:O	5:3E:14:SER:OG	2.34	0.44
5:3E:92:LEU:HD23	5:3E:169:SER:HA	1.98	0.44
31:3I:250:GLN:HE22	45:GI:214:ARG:HH21	1.65	0.44
25:3R:467:ASN:HB3	25:3R:469:TYR:CE1	2.52	0.44
13:3U:87:TRP:CZ3	13:3U:94:LEU:HB2	2.52	0.44
14:3V:249:THR:C	14:3V:253:LYS:HZ2	2.24	0.44
27:4C:35:LEU:O	27:4C:38:ILE:HG22	2.17	0.44
33:4F:72:GLN:N	33:4F:72:GLN:OE1	2.51	0.44
30:4H:171:LEU:HD21	30:4H:176:LYS:HE2	1.98	0.44
10:4Q:65:PRO:HA	10:4Q:153:ARG:HH22	1.82	0.44
35:4S:81:HIS:O	35:4S:86:LYS:NZ	2.31	0.44
36:5B:68:ASP:HA	37:5F:69:LYS:HZ1	1.80	0.44
36:5C:57:PRO:HB2	46:KJ:390:ARG:NH1	2.33	0.44
37:5H:63:HIS:CD2	46:NN:58:ARG:HB3	2.52	0.44
10:5Q:3:LYS:O	10:5Q:4:ASN:OD1	2.36	0.44
35:5S:153:LYS:HA	35:5S:158:MET:HE2	1.97	0.44
34:6R:426:PHE:CE2	34:6R:490:PHE:HB3	2.52	0.44
46:AB:2:ARG:HG3	46:AB:240:LEU:HD11	1.98	0.44
45:AC:326:LYS:HE2	46:AF:218:THR:O	2.16	0.44
46:AD:326:VAL:O	46:AD:330:MET:HG2	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AG:3:GLU:OE2	45:AG:130:THR:N	2.49	0.44
45:AI:194:LEU:O	45:AI:198:THR:HG22	2.17	0.44
45:AI:388:PHE:HB2	45:AI:429:GLU:OE1	2.16	0.44
45:AK:174:SER:HB2	45:AK:177:VAL:O	2.17	0.44
45:BA:121:ARG:HD2	45:BA:124:LYS:HD2	1.99	0.44
45:BA:254:GLU:O	45:BA:255:PHE:HD2	2.00	0.44
46:BD:226:ASN:ND2	49:BD:501:GDP:HN1	2.03	0.44
46:BD:391:ARG:HA	46:BD:391:ARG:HD2	1.71	0.44
45:BE:71:GLU:OE2	46:BF:2:ARG:NH2	2.50	0.44
45:BE:175:PRO:HG3	45:BE:390:ARG:NH1	2.31	0.44
46:BF:145:SER:O	46:BF:188:SER:OG	2.32	0.44
46:BH:287:PRO:HG3	46:BH:329:GLN:HE22	1.82	0.44
45:BI:80:THR:HA	45:BI:84:ARG:HE	1.82	0.44
45:BK:3:GLU:HG3	45:BK:129:CYS:HB3	1.99	0.44
45:BK:76:ASP:OD2	46:BL:46:ARG:NH2	2.50	0.44
45:BM:10:GLY:O	45:BM:14:ILE:HD12	2.17	0.44
45:CC:432:TYR:HA	45:CC:435:VAL:HG12	1.98	0.44
46:CD:221:THR:O	46:CD:225:LEU:HG	2.17	0.44
46:CF:379:LYS:O	46:CF:383:GLU:OE1	2.35	0.44
46:CJ:198:GLU:HG2	46:CJ:266:PHE:HE2	1.82	0.44
45:CK:294:SER:O	45:CK:300:ASN:ND2	2.36	0.44
45:DA:331:SER:O	45:DA:335:ILE:HG12	2.16	0.44
46:DB:209:ASP:O	46:DB:213:ARG:HG3	2.17	0.44
46:DD:295:ASP:OD1	46:DD:296:ALA:N	2.50	0.44
46:DD:322:SER:OG	45:DE:222:PRO:O	2.33	0.44
46:DH:20:PHE:HA	46:DH:230:SER:OG	2.17	0.44
45:DI:36:MET:SD	45:DI:37:PRO:HD2	2.57	0.44
45:DI:205:ASP:OD2	45:DI:303:ALA:HA	2.16	0.44
46:DJ:68:LEU:HD12	46:DJ:97:ALA:HB2	1.98	0.44
45:DK:143:GLY:HA3	47:DK:501:GTP:O2B	2.17	0.44
46:EB:201:VAL:HG22	46:EB:266:PHE:O	2.17	0.44
45:EC:60:LYS:HD2	45:FA:283:HIS:HA	1.99	0.44
45:EC:419:SER:O	45:EC:423:GLU:HG2	2.17	0.44
46:ED:69:GLU:CD	46:ED:71:GLY:H	2.25	0.44
46:ED:153:SER:HA	46:ED:195:ASN:HD22	1.82	0.44
46:EF:304:ASP:OD1	46:EF:306:ARG:HD3	2.17	0.44
45:EG:260:VAL:HG23	45:EG:265:ILE:O	2.17	0.44
46:EH:121:ARG:NH2	46:EH:158:GLU:OE2	2.43	0.44
46:EH:221:THR:HG23	46:EH:224:ASP:H	1.81	0.44
45:EI:66:VAL:HG11	45:EI:122:ILE:HD11	1.99	0.44
46:EJ:83:GLN:O	46:FJ:281:TYR:OH	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EJ:399:THR:HA	46:EJ:403:MET:O	2.18	0.44
46:EL:24:ILE:O	46:EL:27:GLU:HG2	2.17	0.44
46:EL:380:ARG:HA	46:EL:383:GLU:OE1	2.16	0.44
45:FA:181:VAL:HG12	46:FB:347:ASN:O	2.16	0.44
46:FF:409:THR:O	46:FF:412:GLU:HG3	2.17	0.44
45:GC:88:HIS:CE1	45:GC:90:GLU:HB3	2.52	0.44
46:GD:73:MET:HE1	46:GD:90:PHE:HB3	1.98	0.44
46:GF:258:ILE:O	46:GF:258:ILE:HG13	2.15	0.44
46:GF:404:ASP:OD1	46:GF:407:GLU:HG2	2.17	0.44
45:GG:179:THR:O	46:GH:350:LYS:HD2	2.16	0.44
46:GH:3:GLU:HA	46:GH:49:VAL:HG23	1.99	0.44
45:GI:222:PRO:HG2	46:GJ:324:LYS:HB2	1.98	0.44
45:GI:268:MET:HG3	45:GI:380:ASN:HB2	1.99	0.44
45:GK:202:VAL:C	45:GK:203:MET:HE2	2.42	0.44
46:GN:3:GLU:HG3	46:GN:62:ARG:NH1	2.31	0.44
45:HC:194:LEU:O	45:HC:198:THR:HG22	2.18	0.44
45:HC:384:ILE:O	45:HC:387:VAL:HG22	2.17	0.44
45:HE:76:ASP:O	45:HE:80:THR:HG23	2.16	0.44
45:HM:184:PRO:O	45:HM:188:ILE:HG12	2.17	0.44
45:IC:205:ASP:OD1	45:IC:303:ALA:HA	2.17	0.44
45:IC:387:VAL:O	45:IC:391:LEU:HD23	2.17	0.44
46:ID:342:VAL:HG13	46:ID:345:ILE:HG22	1.99	0.44
46:IF:273:LEU:N	46:IF:292:GLN:HE22	2.11	0.44
45:IG:3:GLU:OE2	45:IG:129:CYS:HB3	2.17	0.44
46:IH:154:LYS:O	46:IH:157:GLU:HG3	2.17	0.44
46:IJ:396:HIS:HA	46:IJ:399:THR:HG22	1.98	0.44
46:IL:173:PRO:HG2	46:IL:380:ARG:HD2	1.99	0.44
45:IM:122:ILE:HG21	45:IM:157:LEU:HD11	1.98	0.44
45:IM:169:PHE:HE2	45:IM:235:ILE:HD12	1.83	0.44
46:IN:154:LYS:O	46:IN:157:GLU:HG3	2.17	0.44
46:IN:343:GLU:OE2	46:IN:430:ALA:N	2.41	0.44
45:JA:414:GLU:CD	45:JA:416:GLY:H	2.26	0.44
46:JB:173:PRO:HD2	46:JB:174:LYS:NZ	2.32	0.44
46:JB:295:ASP:OD2	46:JB:297:LYS:N	2.50	0.44
46:JB:313:ALA:HB1	46:JB:367:PHE:HE1	1.82	0.44
45:JE:285:GLN:OE1	45:JE:285:GLN:N	2.49	0.44
45:JI:175:PRO:HB2	45:JI:176:GLN:OE1	2.17	0.44
45:JI:384:ILE:O	45:JI:387:VAL:HG22	2.17	0.44
45:JK:27:GLU:CD	45:JK:243:ARG:HH12	2.25	0.44
45:JM:265:ILE:HG22	45:JM:380:ASN:HD21	1.82	0.44
46:JN:267:MET:HE1	46:JN:301:CYS:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KB:200:MET:HB3	46:KB:268:ILE:HD11	1.99	0.44
46:KD:45:GLU:OE1	46:KD:46:ARG:HG2	2.17	0.44
46:KD:145:SER:OG	46:KD:188:SER:HB3	2.17	0.44
45:KE:84:ARG:HG3	45:KE:84:ARG:HH11	1.82	0.44
45:KM:169:PHE:HB3	45:KM:204:LEU:HD11	1.97	0.44
46:LB:166:THR:HG21	46:LB:192:LEU:HD11	1.99	0.44
45:LC:89:PRO:CD	45:MC:280:LYS:HE2	2.47	0.44
46:LJ:136:THR:HG21	46:LJ:233:MET:HE1	1.99	0.44
45:LM:362:VAL:HB	45:LM:370:LYS:HD2	1.99	0.44
45:MA:169:PHE:HB3	45:MA:204:LEU:HD11	1.99	0.44
46:MB:3:GLU:HG3	46:MB:62:ARG:NH1	2.32	0.44
46:MB:116:VAL:HA	46:MB:119:VAL:HG22	1.98	0.44
46:MD:252:LYS:HE2	46:MD:350:LYS:NZ	2.32	0.44
45:ME:278:ALA:HA	45:ME:281:ALA:HB2	1.98	0.44
45:MI:345:ASP:OD1	45:MI:346:TRP:N	2.50	0.44
46:MJ:63:ALA:O	46:MJ:89:ASN:ND2	2.49	0.44
45:MK:422:ARG:NH1	45:MK:426:ALA:HB2	2.32	0.44
46:ML:210:ILE:O	46:ML:214:THR:OG1	2.25	0.44
47:MM:501:GTP:PG	46:MN:252:LYS:HZ1	2.37	0.44
46:MN:313:ALA:HB1	46:MN:367:PHE:HE1	1.82	0.44
45:NA:8:HIS:CD2	45:NA:17:GLY:HA3	2.53	0.44
45:NA:88:HIS:HD2	45:OA:283:HIS:HB3	1.81	0.44
45:NA:91:GLN:HE21	45:NA:121:ARG:NH2	2.15	0.44
46:NB:31:ASP:HB2	46:NB:32:PRO:HD2	1.99	0.44
46:NB:113:ILE:HG12	46:NB:117:LEU:CD2	2.46	0.44
46:ND:66:MET:HA	46:ND:91:VAL:O	2.17	0.44
46:ND:130:LEU:HD11	46:ND:133:PHE:CE1	2.51	0.44
46:NF:36:TYR:CZ	46:NF:44:LEU:HD11	2.52	0.44
45:NI:88:HIS:CD2	45:OI:283:HIS:HB3	2.52	0.44
46:NJ:316:LEU:HD13	46:NJ:352:SER:OG	2.17	0.44
46:NJ:371:SER:O	46:NJ:422:TYR:OH	2.32	0.44
46:NL:345:ILE:HG13	46:NL:348:ASN:HB3	1.99	0.44
45:OA:11:GLN:CG	45:OA:15:GLN:HE22	2.30	0.44
45:OC:414:GLU:N	45:OC:417:GLU:OE2	2.50	0.44
45:OI:224:TYR:HD2	47:OI:501:GTP:C6	2.36	0.44
45:OI:371:VAL:HG12	45:OI:373:ARG:H	1.82	0.44
45:OK:183:GLU:N	45:OK:184:PRO:HD2	2.32	0.44
46:ON:131:GLN:HA	46:ON:162:ARG:NH2	2.32	0.44
46:ON:315:ALA:HB1	46:ON:317:PHE:CE1	2.52	0.44
46:PF:232:ALA:HB1	46:PF:268:ILE:HD12	1.99	0.44
46:PF:282:ARG:HD2	46:PF:283:ALA:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PH:154:LYS:HA	46:PH:157:GLU:OE1	2.17	0.44
45:PK:21:TRP:CZ2	45:PK:65:ALA:HB2	2.52	0.44
45:PK:229:ARG:NH1	45:PK:363:VAL:HG11	2.32	0.44
46:QD:409:THR:O	46:QD:412:GLU:HG3	2.17	0.44
46:QF:238:CYS:SG	46:QF:239:CYS:N	2.90	0.44
46:QF:282:ARG:HH22	46:QF:292:GLN:NE2	2.14	0.44
45:QG:319:TYR:CE2	45:QG:328:VAL:HG22	2.52	0.44
45:QG:352:LYS:NZ	46:QH:179:VAL:H	2.01	0.44
45:QI:135:PHE:HB2	45:QI:166:LYS:HG2	1.99	0.44
45:QI:227:LEU:O	45:QI:231:ILE:HG12	2.17	0.44
46:QJ:259:PRO:HA	45:QK:404:PHE:CD2	2.51	0.44
46:QJ:347:ASN:OD1	45:QK:178:SER:OG	2.22	0.44
46:QL:322:SER:H	45:QM:221:ARG:NH2	2.14	0.44
46:QL:324:LYS:HE3	45:QM:222:PRO:HD2	2.00	0.44
46:QN:309:ARG:NH2	46:QN:426:GLN:O	2.38	0.44
46:QN:312:THR:HG22	46:QN:370:ASN:HB3	1.98	0.44
46:RB:252:LYS:HA	45:RC:100:ALA:HB1	2.00	0.44
45:RE:91:GLN:HB2	45:RE:121:ARG:NH2	2.33	0.44
46:RH:4:ILE:HG13	46:RH:132:GLY:O	2.17	0.44
46:RH:290:THR:HG21	46:RH:329:GLN:HG2	1.98	0.44
45:RI:10:GLY:O	45:RI:14:ILE:HG12	2.17	0.44
46:RJ:190:HIS:CE1	46:RJ:414:ASN:HD22	2.34	0.44
46:RL:99:ASN:ND2	46:RL:178:THR:HG21	2.32	0.44
46:RL:101:TRP:HB2	46:RL:184:ASN:HB3	1.99	0.44
46:RL:262:ARG:HG3	46:RL:263:LEU:HD12	1.99	0.44
45:SA:20:CYS:HA	45:SA:232:ALA:HB1	1.99	0.44
45:SC:135:PHE:HB2	45:SC:166:LYS:HG2	1.99	0.44
45:SC:328:VAL:HG11	45:SC:353:VAL:HG11	1.99	0.44
46:SD:86:ARG:CZ	46:TD:281:TYR:HB3	2.47	0.44
45:SG:127:ASP:OD1	45:SG:128:ASN:N	2.50	0.44
45:SG:212:ILE:HD11	45:SG:300:ASN:HA	1.99	0.44
46:SH:100:ASN:CB	46:SH:103:LYS:HZ2	2.30	0.44
46:TD:113:ILE:HG21	46:TD:150:LEU:HD22	2.00	0.44
46:TH:210:ILE:O	46:TH:214:THR:OG1	2.33	0.44
46:TJ:347:ASN:ND2	45:TK:176:GLN:O	2.43	0.44
46:TN:105:HIS:CE1	46:TN:150:LEU:HD12	2.52	0.44
46:UB:297:LYS:HD3	46:UB:297:LYS:O	2.16	0.44
45:UC:336:LYS:HE2	45:UC:351:PHE:HE1	1.81	0.44
45:UE:242:LEU:HD11	45:UE:252:ILE:HG23	1.99	0.44
46:UF:173:PRO:HD3	46:UF:380:ARG:NH1	2.32	0.44
46:UF:375:GLN:HG3	46:UF:379:LYS:NZ	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UG:21:TRP:CZ2	45:UG:65:ALA:HB2	2.52	0.44
46:UL:86:ARG:HE	46:UL:86:ARG:HA	1.82	0.44
46:UN:139:LEU:HD13	46:UN:168:SER:HB3	1.98	0.44
45:VA:2:ARG:HH12	46:VD:70:PRO:HG2	1.82	0.44
45:VA:140:SER:OG	47:VA:501:GTP:O2B	2.34	0.44
45:VA:141:VAL:HG11	45:VA:172:TYR:HA	1.99	0.44
45:VA:209:ILE:HA	45:VA:212:ILE:HG22	1.98	0.44
45:VA:332:ILE:HD12	45:VA:351:PHE:CE2	2.51	0.44
45:VA:404:PHE:CE1	46:VB:259:PRO:HA	2.52	0.44
46:VB:314:SER:HB3	46:VB:368:VAL:HG13	1.98	0.44
46:VD:189:VAL:HA	46:VD:192:LEU:HB2	1.99	0.44
46:VF:215:LEU:HB3	46:VF:217:LEU:HD23	1.98	0.44
45:VG:254:GLU:O	45:VG:255:PHE:HD1	2.00	0.44
45:VG:335:ILE:O	45:VG:338:LYS:HB3	2.17	0.44
45:VI:393:HIS:O	45:VI:397:LEU:HD23	2.16	0.44
46:VL:190:HIS:CD2	46:VL:411:ALA:HA	2.52	0.44
46:VN:205:GLU:HA	46:VN:208:TYR:CD1	2.51	0.44
45:WC:50:ASN:OD1	45:WC:51:THR:N	2.50	0.44
46:WD:31:ASP:OD1	46:WD:35:THR:N	2.34	0.44
45:WE:80:THR:O	45:WE:84:ARG:NH2	2.51	0.44
46:WF:233:MET:O	46:WF:236:VAL:HG12	2.18	0.44
45:WG:241:SER:OG	45:WG:250:VAL:O	2.23	0.44
46:WJ:210:ILE:HD11	46:WJ:299:MET:O	2.17	0.44
45:CE:8:HIS:HB2	45:CE:67:PHE:CD1	2.52	0.44
45:CE:152:LEU:O	45:CE:155:GLU:HG3	2.17	0.44
45:DC:426:ALA:HB1	45:DC:430:LYS:HZ1	1.81	0.44
2:0B:28:PHE:HE1	2:0B:62:ASN:ND2	2.15	0.44
5:0E:59:LEU:HD22	5:0E:63:GLU:HB3	1.98	0.44
9:0N:159:PRO:HD2	46:KN:227:HIS:ND1	2.32	0.44
13:0U:63:VAL:HG12	13:0U:70:ILE:HG23	1.98	0.44
3:1C:80:ARG:HH12	46:EL:359:LYS:HA	1.81	0.44
17:1F:56:LYS:NZ	46:GL:44:LEU:HB3	2.33	0.44
8:1H:221:TYR:HE1	46:HH:362:LYS:HZ2	1.63	0.44
8:1H:328:GLU:O	8:1H:332:GLU:OE1	2.35	0.44
21:1L:129:SER:OG	21:1L:132:GLU:O	2.36	0.44
9:1N:478:ASP:OD1	9:1N:479:TYR:N	2.46	0.44
24:1P:222:LEU:C	24:1P:224:GLU:N	2.75	0.44
24:1P:250:ARG:O	24:1P:253:GLU:HG3	2.18	0.44
24:1P:309:GLU:O	24:1P:313:GLU:OE1	2.35	0.44
10:1Q:180:GLU:H	10:1Q:180:GLU:CD	2.25	0.44
11:1S:7:GLN:HG2	11:1S:8:GLN:N	2.27	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:1S:7:GLN:HG2	11:1S:8:GLN:OE1	2.16	0.44
12:1T:285:ARG:NH2	13:1U:52:ARG:HG2	2.32	0.44
13:1U:123:GLN:NE2	13:1U:124:ASP:OD1	2.51	0.44
13:1U:187:VAL:HG13	13:1U:225:ALA:O	2.17	0.44
14:1V:84:ASP:OD1	14:1V:85:PHE:N	2.50	0.44
14:1V:264:PHE:CD2	14:1V:265:VAL:HG22	2.53	0.44
15:1X:129:ILE:O	15:1X:132:VAL:HG12	2.17	0.44
16:2B:17:GLN:HA	16:2B:20:ALA:HB3	1.98	0.44
27:2C:12:VAL:HG21	27:2C:77:TYR:CD2	2.52	0.44
27:2C:151:GLY:HA2	27:2C:154:VAL:HG22	1.98	0.44
4:2D:99:ARG:HH12	45:EK:364:PRO:CA	2.30	0.44
5:2E:129:HIS:HE2	5:2E:131:LYS:HE3	1.82	0.44
31:2I:90:TYR:HE1	45:GE:214:ARG:HG3	1.82	0.44
31:2I:138:VAL:HG12	31:2I:139:ARG:O	2.18	0.44
20:2K:448:LEU:HB3	20:2K:452:ARG:CZ	2.47	0.44
21:2L:396:ASN:HA	21:2L:399:HIS:ND1	2.32	0.44
22:2M:125:LYS:HG2	22:2M:229:GLN:CD	2.41	0.44
23:2O:148:MET:HE2	23:2O:148:MET:HB2	1.89	0.44
23:2O:185:ARG:NH2	46:VL:279:GLN:HE22	2.16	0.44
24:2P:370:LYS:HZ2	24:2P:371:ARG:NH1	2.12	0.44
24:2P:400:LYS:O	24:2P:404:GLN:OE1	2.35	0.44
25:2R:446:LEU:H	25:2R:446:LEU:HD23	1.82	0.44
12:2T:27:ARG:HH11	12:2T:35:LEU:HD23	1.83	0.44
13:2U:275:SER:OG	13:2U:312:PRO:HD3	2.18	0.44
13:2U:469:ALA:O	13:2U:492:LEU:HD13	2.17	0.44
15:2X:8:TYR:HB2	45:MI:357:TYR:CD1	2.52	0.44
30:3H:171:LEU:HD12	30:3H:172:SER:N	2.32	0.44
21:3L:33:LYS:HD2	21:3L:37:ALA:HB2	2.00	0.44
25:3R:311:ASN:HB2	25:3R:315:GLN:C	2.43	0.44
13:3U:431:VAL:H	13:3U:443:ALA:HB2	1.82	0.44
27:4C:64:PHE:CE2	27:4C:66:LEU:HD11	2.53	0.44
35:4S:64:LEU:HA	35:4S:67:LYS:HG2	1.98	0.44
35:4S:83:ALA:HB1	46:WD:111:GLU:OE1	2.16	0.44
35:4S:102:LEU:HD23	35:4S:127:LEU:HD13	1.98	0.44
36:5A:72:LYS:HD3	36:5A:73:SER:O	2.18	0.44
36:5B:35:PHE:HB3	36:5B:46:ILE:HD13	1.99	0.44
37:5E:157:ARG:HH12	46:ND:37:HIS:HB3	1.83	0.44
37:5H:22:LYS:NZ	37:5H:30:PRO:HD2	2.32	0.44
39:6F:66:ASN:C	46:JF:276:ARG:HH22	2.23	0.44
40:6G:163:LYS:HE3	46:VH:306:ARG:HH22	1.81	0.44
40:6G:285:MET:N	40:6G:285:MET:SD	2.91	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:6H:305:PHE:O	41:6H:306:LYS:HD2	2.17	0.44
10:6Q:20:LYS:NZ	10:6Q:22:LEU:HG	2.31	0.44
34:7R:143:VAL:HG23	46:AD:78:ALA:HB2	1.98	0.44
46:AH:215:LEU:HB3	46:AH:217:LEU:HD23	2.00	0.44
46:AH:268:ILE:HG22	46:AH:368:VAL:HG22	1.99	0.44
46:AJ:210:ILE:O	46:AJ:214:THR:OG1	2.33	0.44
45:AK:150:GLY:O	45:AK:154:LEU:HD23	2.17	0.44
46:AL:122:LYS:HE2	46:AL:122:LYS:HB2	1.72	0.44
46:AL:238:CYS:SG	46:AL:318:ARG:HD2	2.57	0.44
45:AM:200:VAL:HG13	45:AM:268:MET:HE2	1.98	0.44
46:BD:185:ALA:O	46:BD:189:VAL:HG23	2.17	0.44
46:BD:386:THR:O	46:BD:390:ARG:HG2	2.16	0.44
46:BF:6:HIS:HD2	46:BF:7:ILE:N	2.14	0.44
45:BG:180:ALA:C	46:BH:350:LYS:HZ1	2.24	0.44
45:BG:200:VAL:HG13	45:BG:268:MET:CE	2.47	0.44
46:BL:201:VAL:HG23	46:BL:301:CYS:SG	2.57	0.44
45:CA:308:ARG:NH1	45:CA:342:GLN:OE1	2.50	0.44
46:CB:346:PRO:HG2	45:CC:394:LYS:NZ	2.32	0.44
45:CC:360:PRO:HG3	45:CC:374:ALA:HB2	1.99	0.44
46:CF:70:PRO:O	46:CF:74:ASP:CB	2.65	0.44
46:CH:117:LEU:HA	46:CH:120:VAL:HG22	1.99	0.44
45:CI:141:VAL:HG12	45:CI:171:ILE:O	2.17	0.44
46:CJ:289:LEU:HD13	46:CJ:365:VAL:HG23	1.98	0.44
45:CK:88:HIS:HB3	45:CK:91:GLN:CD	2.42	0.44
45:DG:188:ILE:HD11	45:DG:391:LEU:HG	1.99	0.44
45:DG:208:ALA:O	45:DG:212:ILE:HG12	2.17	0.44
45:DG:297:GLU:OE2	45:DG:300:ASN:HB2	2.18	0.44
45:DI:69:ASP:OD2	45:DI:70:LEU:N	2.51	0.44
45:DI:111:GLY:O	45:DI:115:VAL:HG13	2.16	0.44
45:DK:286:LEU:O	45:DK:373:ARG:NH2	2.50	0.44
46:DL:48:ASN:O	46:DL:62:ARG:NH1	2.50	0.44
45:EA:141:VAL:HG11	45:EA:172:TYR:CD1	2.52	0.44
46:EB:64:ILE:HD11	46:EB:123:GLU:HG3	1.99	0.44
46:EB:324:LYS:HA	46:EB:327:ASP:OD1	2.17	0.44
45:EC:88:HIS:HB3	45:EC:91:GLN:HB2	1.98	0.44
45:EC:352:LYS:HA	46:ED:177:ASP:O	2.17	0.44
46:ED:67:ASP:OD1	46:ED:68:LEU:N	2.48	0.44
46:EF:175:VAL:HG22	46:EF:205:GLU:OE2	2.16	0.44
46:EF:334:GLN:HA	46:EF:341:PHE:CE2	2.52	0.44
46:EH:116:VAL:O	46:EH:120:VAL:HG23	2.18	0.44
46:EJ:68:LEU:HD13	46:EJ:143:THR:OG1	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EK:238:LEU:HD11	45:EK:255:PHE:HE1	1.82	0.44
45:FA:156:ARG:HG3	45:FA:160:ASP:OD2	2.18	0.44
46:FD:44:LEU:HD23	46:FD:44:LEU:HA	1.84	0.44
46:FF:100:ASN:ND2	46:FF:103:LYS:HG3	2.32	0.44
45:FG:205:ASP:OD1	45:FG:303:ALA:HA	2.17	0.44
46:FH:21:TRP:CZ3	46:FH:61:PRO:HB3	2.52	0.44
46:FH:66:MET:HG2	46:FH:116:VAL:HG21	1.99	0.44
46:FJ:190:HIS:CE1	46:FJ:414:ASN:HD22	2.35	0.44
45:FK:31:GLN:HB2	45:FK:35:GLN:O	2.17	0.44
45:FK:101:ASN:HA	45:FK:144:GLY:H	1.82	0.44
45:FK:326:LYS:HD3	46:FN:208:TYR:CD1	2.53	0.44
45:GA:107:HIS:ND1	45:GA:107:HIS:O	2.50	0.44
45:GA:336:LYS:HD3	45:GA:351:PHE:HE1	1.82	0.44
46:GD:308:GLY:HA2	46:GD:426:GLN:NE2	2.32	0.44
46:GH:66:MET:HE1	46:GH:147:MET:HB3	2.00	0.44
46:GH:232:ALA:HB1	46:GH:268:ILE:HD12	1.98	0.44
45:GI:147:SER:HB2	45:GI:190:SER:HB3	1.98	0.44
45:GI:258:ASN:HD22	45:GI:352:LYS:HB2	1.81	0.44
46:GL:226:ASN:ND2	49:GL:502:GDP:HN1	2.14	0.44
45:GM:100:ALA:HB1	46:GN:252:LYS:HA	2.00	0.44
46:GN:407:GLU:HA	46:GN:410:GLU:CD	2.42	0.44
45:HA:56:THR:HG21	45:HA:60:LYS:HG2	1.99	0.44
45:HA:74:VAL:O	45:HA:77:GLU:HG3	2.17	0.44
45:HC:322:ASP:OD2	45:HC:373:ARG:NH1	2.50	0.44
46:HD:20:PHE:HZ	46:HD:50:TYR:CE1	2.36	0.44
46:HF:73:MET:HE1	46:HF:92:PHE:HB3	1.99	0.44
45:HG:194:LEU:O	45:HG:198:THR:HG22	2.17	0.44
45:HG:257:THR:HG22	46:HJ:397:TRP:HH2	1.82	0.44
45:HI:298:PRO:HG3	45:HI:308:ARG:NH2	2.31	0.44
46:HL:190:HIS:NE2	46:HL:410:GLU:OE2	2.51	0.44
46:IB:345:ILE:HG13	46:IB:345:ILE:O	2.16	0.44
45:IC:227:LEU:O	45:IC:231:ILE:HG12	2.17	0.44
45:IE:387:VAL:O	45:IE:390:ARG:HG2	2.17	0.44
45:IG:91:GLN:HB3	45:IG:121:ARG:NH2	2.31	0.44
46:IH:228:LEU:HD12	46:IH:229:VAL:N	2.32	0.44
45:II:331:SER:O	45:II:335:ILE:HG12	2.17	0.44
45:II:336:LYS:HE3	45:II:351:PHE:HE1	1.82	0.44
46:IJ:3:GLU:HG3	46:IJ:62:ARG:NH1	2.32	0.44
46:IJ:217:LEU:HG	46:IJ:220:PRO:HD3	1.98	0.44
46:IN:5:VAL:HG23	46:IN:7:ILE:HD11	1.99	0.44
45:JA:211:ASP:O	45:JA:215:ARG:HG2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JA:390:ARG:HG3	45:JA:391:LEU:N	2.32	0.44
46:JB:3:GLU:HG3	46:JB:62:ARG:NH1	2.33	0.44
45:JE:419:SER:O	45:JE:422:ARG:N	2.50	0.44
45:JG:68:LEU:HD11	45:JG:118:CYS:SG	2.57	0.44
46:JJ:10:GLY:O	46:JJ:14:ASN:ND2	2.50	0.44
46:JL:3:GLU:H	46:JL:3:GLU:CD	2.25	0.44
45:JM:102:ASN:ND2	45:JM:105:ARG:HG3	2.32	0.44
45:KA:66:VAL:HG11	45:KA:122:ILE:HD11	1.99	0.44
46:KB:201:VAL:HG23	46:KB:301:CYS:SG	2.57	0.44
45:KC:9:VAL:HG13	45:KC:139:ASN:HB3	1.99	0.44
45:KE:68:LEU:HD11	45:KE:118:CYS:SG	2.57	0.44
46:KH:164:MET:O	46:KH:197:ASP:HB2	2.18	0.44
46:KJ:67:ASP:O	46:KJ:92:PHE:HA	2.18	0.44
46:KJ:276:ARG:HD3	46:KJ:276:ARG:O	2.17	0.44
45:KK:174:SER:HB3	45:KK:177:VAL:O	2.17	0.44
45:KK:308:ARG:HB3	45:NK:282:TYR:CZ	2.52	0.44
45:KK:346:TRP:O	46:KN:388:MET:HG2	2.18	0.44
45:KM:49:PHE:HD2	45:KM:53:PHE:HB2	1.82	0.44
45:KM:88:HIS:HD2	45:KM:91:GLN:HB3	1.82	0.44
45:KM:301:MET:HE2	45:KM:301:MET:HA	1.99	0.44
46:KN:342:VAL:HG13	46:KN:345:ILE:HG22	1.99	0.44
45:LC:19:ALA:HA	45:LC:22:GLU:HG2	2.00	0.44
46:LD:286:VAL:N	46:LD:287:PRO:HD2	2.33	0.44
45:LE:66:VAL:HG11	45:LE:122:ILE:HD11	1.99	0.44
46:LF:309:ARG:H	46:LF:372:THR:HG22	1.82	0.44
45:LG:222:PRO:O	46:LH:322:SER:HB2	2.18	0.44
45:LG:230:LEU:O	45:LG:234:VAL:HG23	2.18	0.44
46:LH:232:ALA:HB2	46:LH:300:MET:HE1	1.99	0.44
45:LI:256:GLN:HB2	46:LL:397:TRP:CZ2	2.53	0.44
46:LJ:107:THR:HG23	46:LJ:108:GLU:OE1	2.17	0.44
45:MC:339:ARG:O	45:MC:339:ARG:HD3	2.17	0.44
46:MD:192:LEU:HD21	46:MD:199:CYS:HB2	1.99	0.44
46:MF:68:LEU:HD13	46:MF:143:THR:OG1	2.17	0.44
46:MH:104:GLY:O	46:MH:147:MET:HB2	2.17	0.44
45:MI:384:ILE:O	45:MI:387:VAL:HG22	2.17	0.44
45:MK:387:VAL:HA	45:MK:390:ARG:HG2	1.99	0.44
45:MK:422:ARG:HH12	45:MK:426:ALA:HB2	1.81	0.44
46:ML:132:GLY:HA3	46:ML:163:ILE:HG22	1.98	0.44
46:MN:330:MET:HA	46:MN:333:VAL:HG12	1.99	0.44
45:NA:9:VAL:HG13	45:NA:139:ASN:HB3	1.99	0.44
46:ND:200:MET:HB3	46:ND:266:PHE:HB2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:NH:21:TRP:CZ3	46:NH:61:PRO:HB3	2.52	0.44
46:NJ:113:ILE:HD13	46:NJ:150:LEU:HD22	1.98	0.44
46:NL:6:HIS:O	46:NL:63:ALA:HA	2.17	0.44
45:NM:229:ARG:HH22	45:NM:367:ASP:H	1.64	0.44
46:NN:20:PHE:HZ	46:NN:50:TYR:HE1	1.65	0.44
46:NN:58:ARG:C	46:NN:59:TYR:HD2	2.25	0.44
46:NN:328:GLU:OE1	46:NN:329:GLN:HG2	2.17	0.44
46:OB:67:ASP:O	46:OB:92:PHE:HA	2.16	0.44
46:OB:299:MET:HE1	46:OB:305:PRO:HG3	1.98	0.44
46:OD:60:VAL:HG21	46:OD:86:ARG:HG3	1.99	0.44
46:OF:39:ASP:H	46:OF:43:GLN:HE22	1.66	0.44
46:OF:230:SER:HA	46:OF:233:MET:HG2	2.00	0.44
46:OH:66:MET:HA	46:OH:91:VAL:O	2.16	0.44
46:OH:344:TRP:CE3	46:OH:345:ILE:HG23	2.52	0.44
45:OK:413:MET:HE1	45:OK:417:GLU:OE1	2.17	0.44
46:OL:87:PRO:HA	46:OL:90:PHE:HD2	1.82	0.44
46:OL:213:ARG:HD3	46:OL:297:LYS:HZ1	1.82	0.44
46:ON:24:ILE:HA	46:ON:27:GLU:CD	2.42	0.44
46:ON:116:VAL:HA	46:ON:119:VAL:HG12	1.99	0.44
45:PA:3:GLU:HB2	45:PA:129:CYS:SG	2.57	0.44
45:PA:181:VAL:HG22	46:PB:350:LYS:HZ3	1.82	0.44
45:PA:267:PHE:CD2	45:PA:388:PHE:HZ	2.35	0.44
45:PC:174:SER:HB2	45:PC:177:VAL:O	2.17	0.44
46:PD:156:ARG:NH2	46:PD:160:PRO:O	2.50	0.44
46:PD:259:PRO:HG2	46:PD:311:LEU:HD21	2.00	0.44
45:PE:208:ALA:HA	45:PE:304:LYS:HZ3	1.82	0.44
45:PG:280:LYS:O	45:PG:280:LYS:HD2	2.17	0.44
45:PG:330:ALA:O	45:PG:334:THR:HG23	2.16	0.44
46:PJ:133:PHE:CD1	46:PJ:155:VAL:HG11	2.52	0.44
46:PL:233:MET:O	46:PL:236:VAL:HG12	2.17	0.44
45:PM:154:LEU:HD21	45:PM:194:LEU:HD22	1.99	0.44
46:PN:67:ASP:O	46:PN:92:PHE:HA	2.17	0.44
46:PN:222:TYR:HD2	49:PN:502:GDP:C6	2.35	0.44
46:QF:288:GLU:O	46:QF:291:GLN:HG3	2.16	0.44
45:QG:324:VAL:HG11	45:QG:326:LYS:CE	2.47	0.44
45:QG:345:ASP:N	45:QG:345:ASP:OD2	2.49	0.44
46:QJ:391:ARG:HA	46:QJ:391:ARG:HD2	1.79	0.44
46:QL:182:PRO:HB2	46:QL:388:MET:HE2	1.98	0.44
46:RD:238:CYS:SG	46:RD:318:ARG:NH1	2.90	0.44
45:RE:98:ASP:OD1	45:RE:99:ALA:N	2.50	0.44
45:RG:167:LEU:HD13	45:RG:200:VAL:HB	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RG:419:SER:O	45:RG:422:ARG:N	2.50	0.44
46:RH:274:THR:HB	46:RH:282:ARG:HH21	1.82	0.44
46:RJ:317:PHE:HB2	46:RJ:353:ILE:HD13	1.99	0.44
46:RN:260:PHE:HB2	46:RN:263:LEU:HD13	1.99	0.44
46:SB:257:LEU:HB3	46:SB:266:PHE:HE1	1.82	0.44
46:SB:282:ARG:NH1	46:SB:288:GLU:OE1	2.50	0.44
46:SD:406:MET:O	46:SD:409:THR:N	2.49	0.44
45:SE:19:ALA:O	45:SE:22:GLU:HG2	2.18	0.44
46:SF:49:VAL:HG21	46:SF:241:ARG:HG2	1.98	0.44
45:SI:68:LEU:HD13	45:SI:93:ILE:HB	1.99	0.44
45:SI:171:ILE:HG23	45:SI:204:LEU:O	2.18	0.44
45:SK:64:ARG:NH1	45:SK:129:CYS:SG	2.90	0.44
46:SL:268:ILE:HG22	46:SL:368:VAL:HG22	1.98	0.44
46:SN:97:ALA:HB3	46:SN:143:THR:HB	2.00	0.44
46:TB:86:ARG:HA	46:UB:281:TYR:CE1	2.52	0.44
45:TC:372:MET:N	45:TC:372:MET:SD	2.91	0.44
46:TD:128:ASP:OD1	46:TD:129:CYS:N	2.47	0.44
46:TD:350:LYS:HA	45:TE:179:THR:O	2.16	0.44
46:TF:370:ASN:OD1	46:TF:422:TYR:OH	2.33	0.44
46:TH:164:MET:O	46:TH:197:ASP:HB2	2.17	0.44
46:TJ:257:LEU:HB3	46:TJ:266:PHE:CZ	2.52	0.44
46:TL:269:GLY:HA2	46:TL:300:MET:CE	2.45	0.44
45:UA:401:LYS:HE3	45:UA:401:LYS:HB2	1.74	0.44
45:UC:31:GLN:HB3	45:UC:32:PRO:HD2	1.98	0.44
45:UE:203:MET:C	45:UE:204:LEU:HD22	2.43	0.44
46:UF:4:ILE:HB	46:UF:50:TYR:HE2	1.82	0.44
46:UF:105:HIS:CD2	46:UF:150:LEU:HB2	2.52	0.44
46:UH:118:ASP:HA	46:UH:121:ARG:NH1	2.32	0.44
46:UH:192:LEU:O	46:UH:196:ALA:CB	2.65	0.44
46:UJ:255:VAL:HG11	45:UK:100:ALA:O	2.17	0.44
46:UJ:350:LYS:NZ	45:UK:181:VAL:HG22	2.32	0.44
46:UL:398:TYR:O	46:UL:403:MET:HB2	2.17	0.44
45:VA:105:ARG:NH1	46:VB:251:ARG:HD3	2.32	0.44
46:VF:164:MET:CE	46:VF:196:ALA:HA	2.48	0.44
45:VG:229:ARG:HH12	45:VG:363:VAL:HG21	1.83	0.44
45:VG:332:ILE:HD11	45:VG:351:PHE:CG	2.52	0.44
45:VI:98:ASP:OD1	45:VI:99:ALA:N	2.50	0.44
46:VJ:3:GLU:HA	46:VJ:49:VAL:HG23	1.99	0.44
46:VJ:21:TRP:CZ2	46:VJ:63:ALA:HB2	2.53	0.44
45:VK:262:TYR:OH	46:VN:391:ARG:HG2	2.17	0.44
45:WE:3:GLU:O	45:WE:133:GLN:N	2.40	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WG:98:ASP:OD1	45:WG:99:ALA:N	2.50	0.44
45:WI:151:SER:O	45:WI:155:GLU:OE1	2.34	0.44
45:WI:430:LYS:O	45:WI:433:GLU:HG3	2.16	0.44
45:WK:172:TYR:HE1	45:WK:203:MET:HE1	1.82	0.44
45:WK:178:SER:OG	46:WL:347:ASN:ND2	2.35	0.44
46:WN:182:PRO:HG2	46:WN:388:MET:HE1	1.99	0.44
1:0A:89:ALA:C	1:0A:90:GLN:OE1	2.60	0.44
4:0D:94:ASN:OD1	45:EC:364:PRO:HB3	2.17	0.44
5:0E:81:PHE:HA	5:0E:84:PHE:HD2	1.82	0.44
9:0N:34:LEU:HD23	9:0N:37:LYS:NZ	2.28	0.44
9:0N:183:TRP:CE3	9:0N:209:ILE:HG22	2.52	0.44
10:0Q:54:VAL:HG12	10:0Q:159:ASN:ND2	2.31	0.44
12:0T:29:ASN:HB3	12:0T:32:TYR:HD1	1.81	0.44
14:0V:105:LYS:O	14:0V:107:ALA:N	2.46	0.44
16:1B:183:GLU:HA	16:1B:183:GLU:OE1	2.18	0.44
17:1F:22:THR:C	46:HL:320:ARG:HH12	2.25	0.44
7:1G:141:GLU:OE1	7:1G:142:LYS:HG2	2.17	0.44
8:1H:372:GLU:HA	8:1H:375:GLU:CG	2.47	0.44
19:1J:101:GLN:O	19:1J:105:GLU:HG2	2.17	0.44
21:1L:455:LYS:HE2	21:1L:460:GLU:OE2	2.17	0.44
23:1O:64:ASN:HD21	14:2V:212:LEU:HD11	1.82	0.44
24:1P:203:GLU:HB3	24:1P:207:LYS:NZ	2.30	0.44
10:1Q:14:LEU:HD22	10:1Q:25:TRP:CE2	2.53	0.44
12:1T:109:CYS:O	12:1T:203:TYR:OH	2.35	0.44
13:1U:319:HIS:CE1	13:1U:340:SER:HG	2.31	0.44
13:1U:371:MET:HG2	13:1U:375:LYS:HE2	1.99	0.44
15:1X:50:GLU:CG	15:1X:54:ARG:HH12	2.30	0.44
1:2A:20:PRO:HB2	1:2A:21:ILE:H	1.60	0.44
28:2F:27:LYS:HE3	28:2F:27:LYS:HA	2.00	0.44
21:2L:621:THR:O	21:2L:625:ARG:HG2	2.17	0.44
21:2L:740:LEU:O	21:2L:743:ILE:HG22	2.18	0.44
22:2M:308:VAL:HG11	22:2M:317:PHE:CE2	2.52	0.44
23:2O:285:GLU:O	23:2O:288:LYS:HG3	2.18	0.44
24:2P:414:ASN:ND2	46:TL:276:ARG:O	2.50	0.44
25:2R:513:ASN:O	25:2R:516:GLN:NE2	2.51	0.44
26:2W:249:LYS:HE2	26:2W:249:LYS:HB3	1.68	0.44
5:3E:43:VAL:O	5:3E:44:ASP:HB2	2.16	0.44
31:3I:254:ARG:HH12	45:FI:79:ARG:HH21	1.65	0.44
12:3T:94:ASP:OD1	12:3T:95:GLU:N	2.50	0.44
14:3V:261:GLN:HE22	14:3V:269:MET:C	2.25	0.44
10:4Q:87:TYR:CD2	10:4Q:123:MET:HE1	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:4S:209:ARG:CZ	46:WD:115:SER:HA	2.47	0.44
40:6G:270:THR:HG23	45:VA:298:PRO:HG3	1.98	0.44
34:6R:249:LEU:HA	45:CM:370:LYS:NZ	2.33	0.44
34:6R:318:TYR:HB3	34:6R:321:MET:HE2	1.99	0.44
34:6R:440:ARG:HD2	34:6R:440:ARG:HA	1.69	0.44
34:7R:318:TYR:HB3	34:7R:321:MET:HG2	2.00	0.44
34:7R:440:ARG:NH2	34:7R:442:PHE:HZ	2.16	0.44
45:AA:183:GLU:N	45:AA:184:PRO:HD2	2.32	0.44
45:AA:195:LEU:HD21	45:AA:264:ARG:HD2	1.99	0.44
46:AB:391:ARG:HA	46:AB:391:ARG:HD2	1.77	0.44
46:AD:77:ARG:HB3	46:AD:77:ARG:NH1	2.33	0.44
46:AF:121:ARG:O	46:AF:125:GLU:HG3	2.18	0.44
45:AG:98:ASP:OD1	45:AG:99:ALA:N	2.51	0.44
46:AH:3:GLU:OE2	46:AH:127:CYS:HB2	2.17	0.44
46:AH:179:VAL:O	46:AH:388:MET:HE1	2.17	0.44
46:AJ:238:CYS:SG	46:AJ:239:CYS:N	2.90	0.44
45:AK:237:SER:HA	45:AK:320:ARG:HH11	1.82	0.44
46:AL:233:MET:O	46:AL:236:VAL:HG12	2.17	0.44
45:AM:336:LYS:HE3	45:AM:336:LYS:HB2	1.74	0.44
46:AN:208:TYR:CE2	46:AN:225:LEU:HD21	2.53	0.44
45:BA:210:TYR:CE1	45:BA:227:LEU:HD11	2.51	0.44
45:BA:264:ARG:NH1	45:BA:431:ASP:OD2	2.50	0.44
46:BD:178:THR:HG22	46:BD:179:VAL:H	1.83	0.44
45:BE:226:ASN:ND2	45:BE:367:ASP:OD2	2.50	0.44
45:BE:384:ILE:O	45:BE:387:VAL:HG22	2.17	0.44
46:BF:325:GLU:HA	46:BF:328:GLU:HG3	1.99	0.44
45:BG:425:LEU:HD23	45:BG:425:LEU:HA	1.78	0.44
45:BK:88:HIS:CE1	45:BK:90:GLU:HG3	2.52	0.44
45:BK:215:ARG:NE	45:BK:216:ASN:OD1	2.36	0.44
45:BM:19:ALA:HA	45:BM:22:GLU:OE1	2.17	0.44
45:BM:272:TYR:HD2	45:BM:275:ILE:HD11	1.82	0.44
46:BN:317:PHE:HB2	46:BN:353:ILE:HD13	1.98	0.44
46:CB:15:GLN:OE1	46:CB:226:ASN:ND2	2.50	0.44
45:CC:152:LEU:O	45:CC:155:GLU:HG3	2.18	0.44
45:CC:207:GLU:OE1	45:CC:304:LYS:NZ	2.44	0.44
45:CK:183:GLU:N	45:CK:184:PRO:HD2	2.32	0.44
45:CM:21:TRP:CZ2	45:CM:65:ALA:HB2	2.52	0.44
46:CN:178:THR:HB	46:CN:181:GLU:HG3	1.98	0.44
46:DB:173:PRO:HG2	46:DB:380:ARG:HD3	2.00	0.44
46:DB:260:PHE:HB2	46:DB:263:LEU:HD13	1.99	0.44
45:DG:185:TYR:HD2	45:DG:408:TYR:CE1	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DG:211:ASP:HA	45:DG:214:ARG:NH1	2.32	0.44
46:DL:138:SER:HA	46:DL:169:VAL:HG22	2.00	0.44
45:DM:241:SER:OG	45:DM:250:VAL:O	2.28	0.44
45:EA:324:VAL:O	45:EA:328:VAL:HG23	2.17	0.44
46:EB:207:LEU:HB3	46:EB:225:LEU:HD22	1.99	0.44
46:ED:100:ASN:HB3	46:ED:103:LYS:HB2	1.98	0.44
45:EE:22:GLU:HG3	45:EE:23:LEU:N	2.33	0.44
45:EE:216:ASN:HB3	45:EE:275:ILE:O	2.18	0.44
46:EF:116:VAL:HA	46:EF:119:VAL:HG12	1.99	0.44
46:EF:282:ARG:HE	46:EF:283:ALA:N	2.12	0.44
46:EJ:138:SER:HA	46:EJ:169:VAL:HB	1.99	0.44
46:EL:110:ALA:O	46:EL:113:ILE:HG22	2.17	0.44
45:FA:117:LEU:O	45:FA:121:ARG:HG2	2.16	0.44
45:FC:318:MET:O	45:FC:375:VAL:HA	2.18	0.44
46:FD:5:VAL:HG11	46:FD:123:GLU:HG3	1.99	0.44
46:FD:66:MET:HA	46:FD:91:VAL:O	2.16	0.44
45:FE:137:VAL:HG23	45:FE:168:GLY:HA2	2.00	0.44
46:FF:173:PRO:HD2	46:FF:174:LYS:NZ	2.32	0.44
45:FG:209:ILE:HD12	45:FG:227:LEU:HB3	1.99	0.44
46:FH:201:VAL:HG23	46:FH:301:CYS:SG	2.58	0.44
45:FK:171:ILE:HA	45:FK:204:LEU:HB2	1.98	0.44
46:FL:397:TRP:N	46:FL:397:TRP:CD1	2.85	0.44
46:FN:238:CYS:SG	46:FN:239:CYS:N	2.90	0.44
45:GA:73:THR:OG1	46:GB:2:ARG:NH2	2.50	0.44
45:GA:349:THR:HG21	46:GD:176:SER:HB2	2.00	0.44
45:GE:55:GLU:HG3	45:GE:57:GLY:H	1.82	0.44
46:GF:116:VAL:HA	46:GF:119:VAL:HG12	1.99	0.44
46:GF:152:ILE:HD12	46:GF:164:MET:HE2	1.99	0.44
46:HB:238:CYS:SG	46:HB:239:CYS:N	2.90	0.44
45:HC:387:VAL:HA	45:HC:390:ARG:HG2	1.99	0.44
46:HD:184:ASN:OD1	46:HD:185:ALA:N	2.50	0.44
46:HD:221:THR:HG23	46:HD:224:ASP:H	1.82	0.44
45:HE:21:TRP:CZ2	45:HE:65:ALA:HB2	2.51	0.44
46:HF:304:ASP:OD2	46:HF:306:ARG:HG3	2.16	0.44
46:HH:267:MET:HE2	46:HH:301:CYS:SG	2.57	0.44
45:HI:90:GLU:OE1	45:II:280:LYS:NZ	2.28	0.44
45:HI:115:VAL:O	45:HI:119:LEU:HD23	2.18	0.44
46:HJ:382:ALA:HB2	46:HJ:415:MET:HE1	1.99	0.44
46:HL:121:ARG:HG3	46:HL:121:ARG:HH11	1.81	0.44
46:IB:143:THR:OG1	46:IB:147:MET:HE1	2.17	0.44
45:IC:5:ILE:HB	45:IC:135:PHE:CD1	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IC:313:MET:HB2	45:IC:380:ASN:O	2.17	0.44
46:IH:45:GLU:O	46:IH:46:ARG:HD3	2.18	0.44
45:II:250:VAL:HA	45:II:254:GLU:OE2	2.17	0.44
46:IJ:64:ILE:HD11	46:IJ:123:GLU:HG3	1.98	0.44
46:IL:178:THR:HG22	46:IL:180:VAL:H	1.82	0.44
46:IL:314:SER:OG	46:IL:350:LYS:HB3	2.17	0.44
46:IN:293:MET:HG3	46:IN:294:PHE:HD2	1.82	0.44
45:JA:183:GLU:N	45:JA:184:PRO:HD2	2.32	0.44
46:JB:116:VAL:HA	46:JB:119:VAL:HG22	1.99	0.44
45:JC:107:HIS:ND1	45:JC:107:HIS:O	2.51	0.44
45:JC:340:THR:HG23	45:JC:341:ILE:HG23	1.99	0.44
45:JE:209:ILE:HD11	45:JE:302:MET:HG3	1.99	0.44
45:JE:265:ILE:HG23	45:JE:432:TYR:CZ	2.53	0.44
45:JI:79:ARG:NH2	45:JI:92:LEU:O	2.50	0.44
46:JJ:19:LYS:HZ1	46:JJ:227:HIS:HB2	1.82	0.44
45:JK:69:ASP:OD1	45:JK:70:LEU:N	2.50	0.44
46:JL:73:MET:HE1	46:JL:92:PHE:HB3	1.98	0.44
45:JM:205:ASP:OD1	45:JM:303:ALA:HA	2.16	0.44
46:JN:157:GLU:HA	46:JN:157:GLU:OE1	2.17	0.44
45:KC:183:GLU:N	45:KC:184:PRO:HD2	2.33	0.44
46:KH:44:LEU:HD12	46:KH:47:ILE:HD13	1.99	0.44
45:KI:107:HIS:ND1	45:KI:107:HIS:O	2.51	0.44
46:KL:326:VAL:O	46:KL:330:MET:HG2	2.18	0.44
45:KM:313:MET:HE2	45:KM:380:ASN:HB3	1.99	0.44
46:KN:28:HIS:HA	46:KN:43:GLN:OE1	2.17	0.44
46:LB:139:LEU:HD22	46:LB:188:SER:CB	2.47	0.44
45:LC:76:ASP:HA	45:LC:79:ARG:HG2	1.99	0.44
45:LE:31:GLN:HG2	45:LE:33:ASP:OD1	2.17	0.44
45:LG:262:TYR:OH	46:LJ:391:ARG:O	2.35	0.44
46:LH:134:GLN:HG3	46:LH:165:GLU:OE2	2.17	0.44
46:LH:395:LEU:HD22	46:LH:408:PHE:HE2	1.83	0.44
46:LJ:222:TYR:HD2	49:LJ:501:GDP:C6	2.35	0.44
46:LJ:380:ARG:O	46:LJ:383:GLU:HG3	2.17	0.44
46:LL:345:ILE:O	46:LL:345:ILE:HG13	2.18	0.44
45:MA:152:LEU:HA	45:MA:155:GLU:OE2	2.17	0.44
46:MD:21:TRP:CZ3	46:MD:61:PRO:HB3	2.52	0.44
46:MD:211:CYS:SG	46:MD:220:PRO:HB3	2.58	0.44
45:ME:93:ILE:HG22	45:ME:114:ILE:HD11	1.98	0.44
45:ME:288:VAL:HA	45:ME:291:ILE:HG12	1.98	0.44
46:MJ:153:SER:O	46:MJ:157:GLU:HG3	2.17	0.44
46:MJ:178:THR:HG22	46:MJ:180:VAL:H	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MK:258:ASN:ND2	46:MN:178:THR:HG23	2.32	0.44
45:MM:36:MET:HE3	45:MM:37:PRO:HD2	1.98	0.44
46:MN:347:ASN:C	46:MN:347:ASN:HD22	2.25	0.44
45:NA:270:SER:HB2	45:NA:378:ILE:HD13	1.99	0.44
45:NA:331:SER:O	45:NA:335:ILE:HG12	2.17	0.44
45:NE:325:PRO:HB2	46:NH:208:TYR:OH	2.17	0.44
46:NH:201:VAL:O	46:NH:202:ILE:HD13	2.17	0.44
46:NH:350:LYS:HA	46:NH:350:LYS:HE2	1.99	0.44
45:NI:392:ASP:OD1	45:NI:422:ARG:NH1	2.45	0.44
46:NJ:173:PRO:HD3	46:NJ:380:ARG:CZ	2.47	0.44
46:NL:4:ILE:HG13	46:NL:132:GLY:O	2.17	0.44
46:NL:405:GLU:HA	46:NL:408:PHE:HD2	1.82	0.44
45:NM:91:GLN:CG	45:NM:121:ARG:HH21	2.30	0.44
45:NM:116:ASP:OD1	45:NM:117:LEU:N	2.49	0.44
45:NM:224:TYR:HD1	45:NM:227:LEU:HD11	1.82	0.44
45:NM:270:SER:HA	45:NM:377:MET:O	2.18	0.44
46:NN:19:LYS:HD3	46:NN:19:LYS:HA	1.81	0.44
46:NN:317:PHE:CD2	46:NN:365:VAL:HG22	2.53	0.44
45:OA:105:ARG:HA	45:OA:109:THR:HG23	1.99	0.44
45:OA:419:SER:O	45:OA:423:GLU:HG2	2.18	0.44
45:OE:10:GLY:O	45:OE:14:ILE:HG12	2.16	0.44
45:OE:205:ASP:OD1	45:OE:303:ALA:HA	2.17	0.44
45:OG:49:PHE:HB2	45:OG:53:PHE:HB2	2.00	0.44
46:OH:200:MET:HE2	46:OH:268:ILE:HD13	1.99	0.44
45:OK:172:TYR:CE2	45:OK:203:MET:HE1	2.53	0.44
46:OL:27:GLU:CD	46:OL:318:ARG:HH22	2.25	0.44
45:OM:222:PRO:HG2	46:ON:324:LYS:CE	2.46	0.44
45:OM:265:ILE:HG12	45:OM:432:TYR:CE1	2.50	0.44
46:ON:344:TRP:H	46:ON:344:TRP:CD1	2.36	0.44
46:PB:237:THR:HG22	46:PB:250:LEU:HD21	1.98	0.44
46:PD:237:THR:HG22	46:PD:250:LEU:HD21	1.98	0.44
46:PH:174:LYS:NZ	46:PH:380:ARG:HH12	2.15	0.44
45:PI:322:ASP:OD2	45:PI:373:ARG:NH1	2.51	0.44
45:PK:340:THR:HG23	45:PK:341:ILE:HG12	1.99	0.44
45:PM:269:LEU:HD23	45:PM:379:SER:O	2.18	0.44
45:QA:71:GLU:OE2	45:QA:73:THR:OG1	2.33	0.44
46:QD:133:PHE:O	46:QD:164:MET:HA	2.16	0.44
45:QE:420:GLU:HA	45:QE:423:GLU:CD	2.42	0.44
45:QG:211:ASP:HA	45:QG:214:ARG:NE	2.30	0.44
45:QG:242:LEU:HD21	45:QG:251:ASP:HA	1.99	0.44
46:QH:134:GLN:HE22	46:QH:233:MET:HE3	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QJ:10:GLY:O	46:QJ:14:ASN:ND2	2.50	0.44
46:QJ:105:HIS:CE1	46:QJ:150:LEU:HD13	2.53	0.44
45:QM:268:MET:HE2	45:QM:378:ILE:HG22	1.98	0.44
46:RB:116:VAL:HA	46:RB:119:VAL:HG12	2.00	0.44
45:RE:12:GLY:HA2	45:RE:15:GLN:NE2	2.32	0.44
46:RF:290:THR:OG1	46:RF:329:GLN:NE2	2.22	0.44
45:RG:85:GLN:OE1	45:RG:85:GLN:N	2.48	0.44
45:RG:141:VAL:HG12	45:RG:171:ILE:O	2.17	0.44
45:RG:157:LEU:HD22	45:RG:166:LYS:HE2	1.99	0.44
46:RH:156:ARG:HH21	46:RH:164:MET:CG	2.31	0.44
45:RI:141:VAL:HG12	45:RI:171:ILE:O	2.17	0.44
46:RJ:4:ILE:HG13	46:RJ:132:GLY:O	2.17	0.44
46:RJ:203:ASP:OD1	46:RJ:206:ALA:N	2.35	0.44
45:RM:91:GLN:OE1	45:RM:91:GLN:N	2.50	0.44
46:RN:318:ARG:HH11	46:RN:358:PRO:HG3	1.80	0.44
46:SF:295:ASP:OD1	46:SF:296:ALA:N	2.50	0.44
46:SF:316:LEU:HG	46:SF:352:SER:HB2	1.98	0.44
45:SI:5:ILE:HB	45:SI:135:PHE:CD1	2.52	0.44
45:SI:71:GLU:O	45:SI:71:GLU:HG2	2.18	0.44
45:SK:82:THR:HG23	45:SK:83:TYR:HD1	1.83	0.44
45:SK:203:MET:HE1	45:SK:267:PHE:HB3	1.99	0.44
45:SK:268:MET:HB2	45:SK:379:SER:O	2.17	0.44
45:SK:430:LYS:HA	45:SK:433:GLU:OE2	2.18	0.44
46:SL:221:THR:HG23	46:SL:224:ASP:H	1.81	0.44
46:SL:322:SER:HB2	45:SM:222:PRO:O	2.16	0.44
46:TB:240:LEU:HD11	46:TB:249:ASP:HA	1.98	0.44
46:TB:292:GLN:HA	46:TB:295:ASP:OD1	2.17	0.44
46:TD:226:ASN:HA	46:TD:229:VAL:HG12	2.00	0.44
46:TD:303:ALA:HA	46:TD:376:GLU:OE2	2.18	0.44
45:TE:102:ASN:ND2	45:TE:105:ARG:HG3	2.33	0.44
46:TF:153:SER:O	46:TF:157:GLU:HG2	2.17	0.44
46:TF:317:PHE:CD1	46:TF:365:VAL:HG22	2.51	0.44
45:TG:91:GLN:OE1	45:TG:91:GLN:N	2.51	0.44
46:TH:167:PHE:CE2	46:TH:233:MET:HG2	2.52	0.44
45:TI:187:SER:O	45:TI:191:THR:HG23	2.17	0.44
46:TJ:41:ASP:OD1	46:TJ:42:LEU:HD12	2.16	0.44
46:TL:282:ARG:HE	46:TL:283:ALA:N	2.14	0.44
46:TL:293:MET:HE3	46:TL:294:PHE:CZ	2.52	0.44
45:TM:332:ILE:HG22	45:TM:336:LYS:NZ	2.32	0.44
45:UE:132:LEU:HD12	45:UE:164:LYS:HZ2	1.81	0.44
46:UF:221:THR:OG1	46:UF:222:TYR:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UF:345:ILE:HA	45:UG:398:MET:HE1	2.00	0.44
46:UH:318:ARG:HH11	46:UH:358:PRO:HG3	1.82	0.44
46:UH:363:MET:HE3	46:UH:364:ALA:H	1.83	0.44
46:UL:245:GLN:NE2	46:UL:355:ASP:OD1	2.49	0.44
45:UM:81:GLY:H	45:UM:84:ARG:HE	1.66	0.44
45:VA:22:GLU:O	45:VA:26:LEU:HD23	2.17	0.44
45:VA:113:GLU:OE1	45:VA:113:GLU:N	2.42	0.44
45:VA:117:LEU:O	45:VA:121:ARG:HG2	2.17	0.44
46:VB:189:VAL:HG13	46:VB:415:MET:HE3	1.98	0.44
46:VB:332:ASN:HD22	46:VB:336:LYS:HZ1	1.64	0.44
45:VC:88:HIS:ND1	45:VC:90:GLU:HG3	2.32	0.44
46:VD:39:ASP:OD1	46:VD:40:SER:N	2.50	0.44
45:VE:356:ASN:OD1	45:VE:357:TYR:N	2.50	0.44
46:VF:72:THR:O	46:VF:75:SER:OG	2.29	0.44
46:VF:418:LEU:HD12	46:VF:421:GLU:OE1	2.18	0.44
45:VG:174:SER:HB3	45:VG:207:GLU:CD	2.42	0.44
46:VH:5:VAL:HG12	46:VH:62:ARG:HD3	1.99	0.44
46:VJ:28:HIS:C	46:VJ:43:GLN:HE21	2.25	0.44
46:VJ:260:PHE:HB2	46:VJ:263:LEU:HD13	1.98	0.44
46:VL:318:ARG:NH1	46:VL:358:PRO:HG3	2.32	0.44
45:WA:255:PHE:HA	45:WA:259:LEU:HD13	1.98	0.44
46:WB:69:GLU:HA	46:WB:69:GLU:OE1	2.17	0.44
46:WB:321:MET:HB3	46:WB:325:GLU:OE2	2.17	0.44
46:WD:39:ASP:H	46:WD:43:GLN:HE22	1.64	0.44
46:WF:12:CYS:O	46:WF:16:ILE:HG12	2.17	0.44
46:WH:50:TYR:C	46:WH:51:TYR:HD2	2.26	0.44
46:WH:263:LEU:HG	46:WH:422:TYR:HD1	1.82	0.44
46:WJ:398:TYR:O	46:WJ:403:MET:HB2	2.18	0.44
45:WK:404:PHE:CD1	46:WL:259:PRO:HA	2.52	0.44
46:WL:66:MET:HE1	46:WL:147:MET:HG2	1.99	0.44
45:WM:221:ARG:HA	46:WN:324:LYS:HZ1	1.83	0.44
46:WN:69:GLU:HA	46:WN:69:GLU:OE2	2.17	0.44
45:CE:54:SER:HB3	45:CE:64:ARG:NH2	2.32	0.44
7:0G:99:ARG:HB3	46:JN:359:LYS:NZ	2.32	0.44
11:0S:126:LYS:HA	11:0S:126:LYS:HD3	1.90	0.44
11:0S:168:HIS:CD2	11:0S:207:VAL:HG22	2.52	0.44
13:0U:51:LEU:HD23	13:0U:87:TRP:CE3	2.53	0.44
1:1A:14:GLN:NE2	1:1A:18:SER:HB3	2.30	0.44
7:1G:52:LYS:HG2	7:1G:57:ASN:HD21	1.82	0.44
19:1J:133:VAL:HG22	19:1J:134:HIS:H	1.82	0.44
19:1J:384:LYS:NZ	19:1J:385:ILE:O	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:1N:428:HIS:CD2	9:1N:441:ILE:HG21	2.53	0.44
23:1O:192:TYR:HD1	23:1O:195:GLN:OE1	2.00	0.44
11:1S:167:TYR:HB2	11:1S:203:LYS:HD3	1.98	0.44
12:1T:53:ARG:O	12:1T:57:LEU:HD23	2.17	0.44
13:1U:131:VAL:HG11	13:1U:141:TYR:CE1	2.53	0.44
16:2B:50:LEU:HD23	16:2B:50:LEU:HA	1.83	0.44
5:2E:42:LYS:HZ2	5:2E:78:THR:HB	1.82	0.44
5:2E:72:ASP:OD1	5:2E:75:ASN:N	2.48	0.44
31:2I:41:THR:HG1	46:FH:128:ASP:CG	2.26	0.44
31:2I:96:TRP:HB3	46:FF:125:GLU:OE1	2.16	0.44
20:2K:429:HIS:NE2	45:GE:282:TYR:CZ	2.85	0.44
22:2M:123:MET:HB2	22:2M:157:VAL:HG22	1.99	0.44
23:2O:201:GLU:HA	23:2O:204:LYS:HE3	1.99	0.44
23:2O:383:ARG:O	23:2O:386:GLU:HG3	2.17	0.44
23:2O:477:MET:O	23:2O:478:ASN:HB2	2.16	0.44
25:2R:29:LYS:NZ	45:MG:47:ASP:HB3	2.32	0.44
25:2R:140:LYS:NZ	25:2R:148:GLN:HB2	2.32	0.44
12:2T:237:TYR:HB2	46:MJ:405:GLU:OE2	2.17	0.44
27:3C:218:ARG:CD	46:KB:320:ARG:HH11	2.30	0.44
27:3C:238:PHE:HZ	27:3C:247:GLY:HA2	1.82	0.44
5:3E:4:ASP:OD1	5:3E:4:ASP:N	2.50	0.44
5:3E:116:GLU:HB2	5:3E:158:LYS:HE2	1.99	0.44
30:3H:171:LEU:HD21	30:3H:176:LYS:HD3	1.99	0.44
23:3O:271:ALA:HA	23:3O:274:VAL:HG12	1.98	0.44
23:3O:389:LYS:HG3	23:3O:392:ARG:HH21	1.81	0.44
11:3S:219:LEU:HD12	11:3S:258:ILE:HG21	1.98	0.44
12:3T:213:LEU:HD13	12:3T:218:PHE:HE2	1.82	0.44
14:3V:54:ASP:OD2	14:3V:55:PHE:N	2.51	0.44
30:4H:219:ILE:O	45:MK:84:ARG:NH2	2.50	0.44
34:4R:189:GLU:HA	34:4R:192:VAL:HG12	1.99	0.44
34:4R:253:ARG:O	34:4R:253:ARG:HG3	2.17	0.44
34:4R:391:PHE:CD2	46:EF:215:LEU:HD21	2.52	0.44
34:4R:536:ARG:HH11	34:4R:609:LEU:HA	1.82	0.44
15:4X:38:ILE:HA	15:4X:41:GLN:HG3	2.00	0.44
36:5A:138:ARG:HH12	46:ND:357:PRO:CD	2.23	0.44
36:5B:154:ASP:O	36:5B:156:VAL:N	2.48	0.44
37:5E:60:TRP:HA	46:OB:279:GLN:OE1	2.17	0.44
37:5G:39:ASP:C	45:OG:370:LYS:HZ3	2.24	0.44
35:5S:92:GLU:OE1	35:5S:95:LEU:HG	2.18	0.44
35:5S:189:VAL:HA	35:5S:192:MET:CE	2.48	0.44
35:5S:198:LEU:H	35:5S:198:LEU:HD23	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:6G:138:LYS:NZ	45:VG:298:PRO:HD3	2.32	0.44
40:6G:163:LYS:HD2	46:VH:296:ALA:HB3	2.00	0.44
41:6H:329:LEU:HB3	46:FJ:361:LEU:HD21	2.00	0.44
10:6Q:65:PRO:HA	10:6Q:153:ARG:HH22	1.81	0.44
34:6R:12:LEU:HB2	34:6R:15:HIS:CD2	2.52	0.44
46:AB:58:ARG:NH2	46:BB:281:TYR:HA	2.32	0.44
46:AB:97:ALA:HA	46:AB:103:LYS:HE3	2.00	0.44
45:AC:386:GLU:O	45:AC:389:SER:OG	2.23	0.44
46:AD:5:VAL:HG12	46:AD:62:ARG:HD3	2.00	0.44
46:AD:16:ILE:HD13	46:AD:226:ASN:OD1	2.17	0.44
45:AE:56:THR:HG23	45:AE:58:ALA:H	1.81	0.44
46:AH:184:ASN:OD1	46:AH:185:ALA:N	2.51	0.44
46:AH:281:TYR:OH	46:MH:83:GLN:O	2.27	0.44
45:AK:265:ILE:HG22	45:AK:380:ASN:HD21	1.82	0.44
46:AN:124:ALA:O	46:AN:130:LEU:HD21	2.18	0.44
45:BC:319:TYR:CE2	45:BC:328:VAL:HG22	2.52	0.44
46:BD:87:PRO:HA	46:BD:90:PHE:CD2	2.48	0.44
46:BD:286:VAL:HG12	46:BD:329:GLN:OE1	2.17	0.44
45:BE:19:ALA:HA	45:BE:22:GLU:OE1	2.17	0.44
45:BE:121:ARG:HH12	45:BE:124:LYS:HD2	1.83	0.44
46:BF:97:ALA:HA	46:BF:103:LYS:HE2	1.99	0.44
46:BH:22:GLU:HG2	46:BH:81:PHE:CD1	2.52	0.44
46:BH:347:ASN:HD22	46:BH:347:ASN:C	2.24	0.44
45:BI:224:TYR:HD1	47:BI:501:GTP:C6	2.35	0.44
46:BJ:20:PHE:CD1	46:BJ:233:MET:HG2	2.53	0.44
46:BJ:65:LEU:HD11	46:BJ:85:PHE:CD1	2.52	0.44
45:BM:186:ASN:OD1	45:BM:187:SER:N	2.50	0.44
45:BM:217:LEU:HD11	45:BM:367:ASP:HB3	1.99	0.44
46:BN:324:LYS:HE2	46:BN:324:LYS:HB2	1.56	0.44
45:CA:326:LYS:HE3	46:CB:219:THR:HA	1.99	0.44
45:CC:288:VAL:HA	45:CC:291:ILE:HG12	1.98	0.44
45:CG:200:VAL:HG13	45:CG:268:MET:HE2	1.99	0.44
46:CH:7:ILE:HD13	46:CH:64:ILE:HB	2.00	0.44
46:CJ:306:ARG:HB2	46:CJ:340:TYR:HE1	1.82	0.44
46:CJ:324:LYS:HG3	46:CJ:325:GLU:N	2.33	0.44
45:CK:200:VAL:HG13	45:CK:268:MET:CE	2.47	0.44
46:CL:77:ARG:NH1	46:CL:83:GLN:HA	2.31	0.44
46:DB:346:PRO:HD3	45:DC:397:LEU:HD23	2.00	0.44
46:DD:175:VAL:O	46:DD:175:VAL:HG23	2.16	0.44
46:DL:210:ILE:HD11	46:DL:299:MET:O	2.17	0.44
46:DL:324:LYS:HD2	46:DL:324:LYS:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ED:268:ILE:HG22	46:ED:368:VAL:HG22	1.98	0.44
46:EF:117:LEU:HA	46:EF:120:VAL:HG12	1.99	0.44
46:EF:207:LEU:HD23	46:EF:300:MET:HB2	1.99	0.44
46:EN:15:GLN:NE2	49:EN:501:GDP:C5	2.85	0.44
45:FA:333:ALA:O	45:FA:337:THR:HG23	2.18	0.44
46:FD:324:LYS:HA	46:FD:324:LYS:HD2	1.71	0.44
45:FG:98:ASP:OD1	45:FG:99:ALA:N	2.50	0.44
45:FG:188:ILE:HD12	45:FG:425:LEU:HD11	1.99	0.44
46:FH:224:ASP:O	46:FH:228:LEU:HD23	2.17	0.44
46:FH:363:MET:HE2	46:FH:363:MET:HB3	1.86	0.44
45:FI:224:TYR:HE2	46:FJ:246:LEU:HD11	1.82	0.44
45:FM:21:TRP:CZ2	45:FM:65:ALA:HB2	2.53	0.44
45:FM:172:TYR:HE2	45:FM:203:MET:HE1	1.82	0.44
46:FN:178:THR:HG22	46:FN:180:VAL:H	1.82	0.44
46:FN:268:ILE:HG22	46:FN:368:VAL:HG22	1.98	0.44
46:GB:64:ILE:HD11	46:GB:123:GLU:HG3	1.98	0.44
45:GC:116:ASP:O	45:GC:119:LEU:HG	2.18	0.44
45:GC:133:GLN:HB3	45:GC:252:ILE:HD11	1.99	0.44
46:GD:379:LYS:O	46:GD:383:GLU:HG2	2.18	0.44
46:GF:344:TRP:CE3	46:GF:345:ILE:HG23	2.53	0.44
46:GJ:86:ARG:HH11	46:HJ:281:TYR:HE2	1.64	0.44
45:GM:109:THR:HG22	45:GM:110:ILE:HG23	1.99	0.44
45:GM:140:SER:OG	47:GM:501:GTP:O2B	2.35	0.44
46:GN:248:SER:HA	46:GN:252:LYS:HD2	1.99	0.44
46:GN:391:ARG:HA	46:GN:391:ARG:HD2	1.73	0.44
45:HA:22:GLU:HG3	45:HA:83:TYR:OH	2.18	0.44
45:HA:76:ASP:OD2	46:HB:46:ARG:NH2	2.50	0.44
46:HB:288:GLU:HA	46:HB:291:GLN:HG3	1.99	0.44
45:HC:288:VAL:HA	45:HC:291:ILE:HG22	1.98	0.44
46:HD:178:THR:HG22	46:HD:180:VAL:H	1.82	0.44
45:HG:276:ILE:HD11	45:HG:280:LYS:HG3	1.98	0.44
46:HH:31:ASP:OD2	46:HH:33:THR:OG1	2.36	0.44
45:HM:171:ILE:HG23	45:HM:204:LEU:O	2.17	0.44
46:HN:12:CYS:O	46:HN:16:ILE:HG12	2.17	0.44
45:IA:284:GLU:HG3	45:IA:286:LEU:HD23	1.99	0.44
45:IA:434:GLU:O	45:IA:437:ILE:HG22	2.18	0.44
46:IH:69:GLU:HA	46:IH:70:PRO:HD3	1.84	0.44
45:II:209:ILE:HD12	45:II:209:ILE:H	1.82	0.44
45:II:231:ILE:O	45:II:235:ILE:HG12	2.18	0.44
46:IJ:16:ILE:HD13	46:IJ:226:ASN:OD1	2.17	0.44
46:IJ:137:HIS:O	46:IJ:168:SER:HA	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IK:195:LEU:HD21	45:IK:264:ARG:NH2	2.33	0.44
46:IL:7:ILE:HG22	46:IL:64:ILE:HB	1.99	0.44
46:IL:99:ASN:HA	46:IL:142:GLY:H	1.81	0.44
45:JC:371:VAL:HG12	45:JC:373:ARG:H	1.81	0.44
46:JD:372:THR:HA	46:JD:422:TYR:CE2	2.53	0.44
45:JE:260:VAL:HG13	45:JE:260:VAL:O	2.18	0.44
45:JE:372:MET:HE2	45:JE:373:ARG:NH1	2.32	0.44
45:JG:194:LEU:O	45:JG:198:THR:HG22	2.18	0.44
45:JG:420:GLU:OE2	45:NG:308:ARG:HD2	2.17	0.44
45:JI:184:PRO:O	45:JI:188:ILE:HG12	2.17	0.44
45:JI:231:ILE:O	45:JI:235:ILE:HG12	2.17	0.44
45:JK:304:LYS:HA	45:JK:304:LYS:HD2	1.77	0.44
45:JK:422:ARG:NH1	45:JK:422:ARG:O	2.51	0.44
45:JK:430:LYS:HA	45:JK:433:GLU:HG3	1.98	0.44
45:KA:9:VAL:HG13	45:KA:139:ASN:HB3	1.99	0.44
45:KA:102:ASN:ND2	45:KA:105:ARG:HG3	2.33	0.44
46:KD:342:VAL:HG13	46:KD:345:ILE:HG22	1.99	0.44
45:KE:259:LEU:HD21	45:KE:316:SER:HB2	1.99	0.44
46:KH:145:SER:OG	46:KH:188:SER:HB3	2.18	0.44
46:KH:286:VAL:HG12	46:KH:329:GLN:HG3	1.98	0.44
46:KH:405:GLU:HA	46:KH:408:PHE:HD2	1.81	0.44
46:KJ:375:GLN:OE1	46:KJ:423:GLN:NE2	2.50	0.44
45:KM:116:ASP:OD1	45:KM:117:LEU:N	2.49	0.44
46:KN:254:ALA:O	46:KN:258:ILE:HG12	2.18	0.44
45:LA:119:LEU:O	45:LA:123:ARG:HG2	2.17	0.44
46:LB:318:ARG:HB3	46:LB:357:PRO:HA	2.00	0.44
45:LC:10:GLY:O	45:LC:14:ILE:HG12	2.18	0.44
46:LF:313:ALA:HB3	46:LF:349:ILE:CD1	2.48	0.44
46:LF:409:THR:O	46:LF:412:GLU:HG3	2.17	0.44
45:LG:69:ASP:OD1	45:LG:71:GLU:HG3	2.16	0.44
46:LH:405:GLU:O	46:LH:409:THR:HG23	2.17	0.44
45:LK:41:THR:HG22	45:LK:41:THR:O	2.16	0.44
45:LM:40:LYS:O	45:LM:41:THR:HG22	2.18	0.44
45:LM:171:ILE:O	45:LM:171:ILE:HG13	2.17	0.44
45:LM:424:ASP:O	45:LM:428:LEU:HD23	2.17	0.44
46:MD:66:MET:HE3	46:MD:116:VAL:HG21	1.98	0.44
46:MD:159:TYR:HB3	46:MD:162:ARG:HG3	2.00	0.44
45:ME:107:HIS:ND1	45:ME:107:HIS:O	2.51	0.44
46:MJ:201:VAL:O	46:MJ:202:ILE:HD13	2.17	0.44
45:MM:322:ASP:OD1	45:MM:373:ARG:NH1	2.49	0.44
46:MN:225:LEU:O	46:MN:229:VAL:HG23	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:MN:238:CYS:SG	46:MN:318:ARG:HD2	2.58	0.44
45:NA:24:PHE:O	45:NA:27:GLU:HG3	2.17	0.44
45:NA:120:ASP:HB3	45:NA:124:LYS:HZ1	1.83	0.44
45:NA:317:MET:HB3	45:NA:319:TYR:CE1	2.53	0.44
46:NB:328:GLU:O	46:NB:331:LEU:HG	2.17	0.44
45:NC:137:VAL:HG12	45:NC:167:LEU:O	2.17	0.44
45:NC:318:MET:HB2	45:NC:376:CYS:SG	2.57	0.44
46:ND:19:LYS:HA	46:ND:22:GLU:OE2	2.17	0.44
46:NF:21:TRP:CZ2	46:NF:63:ALA:HB2	2.52	0.44
45:NG:137:VAL:HG12	45:NG:167:LEU:O	2.18	0.44
45:NI:353:VAL:HG12	46:NL:177:ASP:OD1	2.17	0.44
45:NM:118:CYS:O	45:NM:122:ILE:HG12	2.18	0.44
45:OA:217:LEU:HD12	45:OA:367:ASP:HB3	1.99	0.44
45:OC:340:THR:HG23	45:OC:341:ILE:HG13	2.00	0.44
46:OD:222:TYR:O	46:OD:226:ASN:ND2	2.50	0.44
45:OG:414:GLU:HB3	45:OG:417:GLU:OE1	2.17	0.44
45:OK:420:GLU:O	45:OK:423:GLU:HG2	2.16	0.44
46:OL:66:MET:HA	46:OL:91:VAL:O	2.17	0.44
46:OL:294:PHE:CD2	46:OL:333:VAL:HG21	2.52	0.44
45:OM:147:SER:HB2	45:OM:190:SER:HB2	1.99	0.44
46:ON:86:ARG:HG3	46:ON:88:ASP:H	1.82	0.44
46:ON:188:SER:O	46:ON:192:LEU:HD23	2.18	0.44
46:ON:267:MET:HE2	46:ON:301:CYS:HB2	2.00	0.44
45:PA:19:ALA:HA	45:PA:22:GLU:OE1	2.16	0.44
46:PB:325:GLU:HA	46:PB:328:GLU:HG2	1.98	0.44
45:PE:51:THR:HG21	45:PE:243:ARG:HD3	2.00	0.44
45:PG:347:CYS:HA	46:PJ:388:MET:HE1	1.98	0.44
46:PH:268:ILE:HG22	46:PH:368:VAL:HG12	1.98	0.44
45:PI:96:LYS:HD3	46:PJ:1:MET:HE1	2.00	0.44
46:PL:164:MET:HE2	46:PL:164:MET:HA	1.99	0.44
45:PM:19:ALA:HA	45:PM:22:GLU:OE1	2.18	0.44
45:QA:141:VAL:HG12	45:QA:171:ILE:O	2.18	0.44
46:QB:317:PHE:CD2	46:QB:365:VAL:HG22	2.52	0.44
46:QJ:178:THR:HB	46:QJ:181:GLU:HG3	1.99	0.44
45:QK:257:THR:HG22	46:QL:397:TRP:CZ3	2.52	0.44
46:QL:318:ARG:HH11	46:QL:358:PRO:HG3	1.82	0.44
46:QN:237:THR:HG23	46:QN:241:ARG:HH21	1.82	0.44
45:RC:311:LYS:N	45:RC:382:THR:OG1	2.49	0.44
45:RC:326:LYS:HD3	46:RD:212:PHE:HZ	1.83	0.44
46:RD:416:ASN:OD1	46:RD:417:ASP:N	2.51	0.44
45:RE:119:LEU:HA	45:RE:122:ILE:HG12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RH:6:HIS:O	46:RH:63:ALA:HA	2.17	0.44
46:RJ:67:ASP:OD1	46:RJ:68:LEU:N	2.50	0.44
46:RJ:237:THR:HG23	46:RJ:241:ARG:NH1	2.33	0.44
45:RK:371:VAL:HG22	45:RK:373:ARG:H	1.82	0.44
46:RL:156:ARG:HA	46:RL:156:ARG:CZ	2.47	0.44
46:RL:262:ARG:NH1	46:RL:418:LEU:HD13	2.32	0.44
46:SB:122:LYS:HE2	46:TB:291:GLN:OE1	2.17	0.44
45:SC:21:TRP:CH2	45:SC:63:PRO:HB3	2.52	0.44
46:SD:324:LYS:HB2	45:SE:210:TYR:CE2	2.51	0.44
46:SH:190:HIS:CE1	46:SH:414:ASN:HD22	2.35	0.44
46:SH:269:GLY:HA2	46:SH:300:MET:HE2	1.99	0.44
46:SJ:232:ALA:HB1	46:SJ:268:ILE:HD11	1.98	0.44
46:SJ:282:ARG:HH21	46:SJ:288:GLU:HB3	1.83	0.44
45:SK:204:LEU:HD23	45:SK:302:MET:HE1	2.00	0.44
46:SL:256:ASN:OD1	46:SL:350:LYS:NZ	2.37	0.44
46:SL:375:GLN:O	46:SL:379:LYS:HG2	2.17	0.44
45:SM:24:PHE:HA	45:SM:27:GLU:CD	2.42	0.44
45:SM:141:VAL:HG11	45:SM:172:TYR:CD2	2.53	0.44
45:SM:175:PRO:HA	45:SM:390:ARG:CZ	2.48	0.44
46:SN:116:VAL:HA	46:SN:119:VAL:HG12	2.00	0.44
45:TC:425:LEU:O	45:TC:428:LEU:HB3	2.17	0.44
46:TD:4:ILE:HG13	46:TD:132:GLY:O	2.16	0.44
46:TD:21:TRP:CZ2	46:TD:63:ALA:HB2	2.52	0.44
46:TD:385:PHE:CZ	46:TD:408:PHE:CD2	3.02	0.44
45:TE:339:ARG:NE	45:TE:339:ARG:HA	2.32	0.44
46:TJ:163:ILE:O	46:TJ:164:MET:HE2	2.18	0.44
46:TN:99:ASN:HA	46:TN:142:GLY:H	1.81	0.44
46:UB:72:THR:O	46:UB:76:VAL:HG22	2.17	0.44
46:UB:259:PRO:HA	45:UC:404:PHE:CE1	2.53	0.44
45:UC:88:HIS:CE1	45:VA:280:LYS:HG2	2.53	0.44
45:UE:27:GLU:HG2	45:UE:361:THR:HG21	1.99	0.44
46:UF:213:ARG:NE	46:UF:297:LYS:HB3	2.29	0.44
46:UF:258:ILE:HD12	46:UF:264:HIS:HB3	1.98	0.44
45:UG:107:HIS:ND1	45:UG:107:HIS:O	2.51	0.44
45:UG:202:VAL:C	45:UG:203:MET:HE2	2.42	0.44
45:UG:336:LYS:HD3	45:UG:336:LYS:HA	1.74	0.44
46:UH:97:ALA:HB3	46:UH:143:THR:HB	1.98	0.44
45:UI:171:ILE:HG23	45:UI:204:LEU:O	2.18	0.44
46:UJ:28:HIS:C	46:UJ:43:GLN:HE21	2.26	0.44
46:UJ:163:ILE:HD13	46:UJ:251:ARG:HG2	1.98	0.44
46:UL:344:TRP:CE3	46:UL:345:ILE:HG23	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UN:215:LEU:HA	46:UN:275:SER:HA	1.99	0.44
45:VA:223:THR:OG1	45:VA:224:TYR:N	2.50	0.44
45:VA:260:VAL:CG1	46:VD:397:TRP:HZ2	2.30	0.44
45:VC:98:ASP:OD1	45:VC:99:ALA:N	2.50	0.44
46:VD:326:VAL:O	46:VD:330:MET:HG2	2.16	0.44
46:VF:258:ILE:HG13	46:VF:258:ILE:O	2.18	0.44
46:VF:391:ARG:HA	46:VF:391:ARG:HD2	1.73	0.44
45:VG:56:THR:HG23	45:VG:58:ALA:H	1.82	0.44
45:VG:261:PRO:HA	46:VJ:394:PHE:CD2	2.52	0.44
46:VJ:217:LEU:H	46:VJ:217:LEU:HD23	1.83	0.44
46:VJ:257:LEU:HD11	46:VJ:314:SER:HB2	1.99	0.44
46:VL:47:ILE:HG22	46:VL:51:TYR:HB2	1.98	0.44
45:VM:141:VAL:HG22	45:VM:187:SER:HA	1.99	0.44
45:WA:101:ASN:OD1	46:WB:252:LYS:NZ	2.50	0.44
46:WB:318:ARG:HH11	46:WB:358:PRO:HG3	1.82	0.44
45:WE:10:GLY:O	45:WE:14:ILE:HG12	2.18	0.44
45:WG:21:TRP:HZ2	45:WG:65:ALA:HB2	1.82	0.44
45:WK:88:HIS:CE1	45:WK:90:GLU:HG3	2.52	0.44
45:WK:288:VAL:HG13	45:WK:373:ARG:NH1	2.32	0.44
46:WL:286:VAL:HB	46:WL:325:GLU:OE1	2.18	0.44
46:WN:267:MET:CE	46:WN:299:MET:HB2	2.47	0.44
45:CE:398:MET:N	45:CE:398:MET:HE2	2.32	0.44
4:0D:225:ARG:HH12	34:7R:589:MET:HE2	1.82	0.44
11:0S:17:LYS:HA	11:0S:17:LYS:HD2	1.73	0.44
13:0U:343:ASP:OD1	13:0U:343:ASP:N	2.50	0.44
13:0U:420:ILE:HG22	13:0U:432:TRP:HB2	1.99	0.44
14:0V:31:LEU:HD21	45:MM:309:HIS:HE1	1.82	0.44
14:0V:98:LEU:HD21	45:LM:415:GLU:HG2	1.99	0.44
16:1B:13:LYS:O	16:1B:17:GLN:HG2	2.18	0.44
4:1D:180:ARG:HH22	46:EF:57:GLY:N	2.16	0.44
20:1K:135:ARG:O	20:1K:138:GLN:HG3	2.18	0.44
20:1K:215:VAL:HA	20:1K:218:THR:OG1	2.18	0.44
21:1L:113:ASN:O	21:1L:114:LEU:HB2	2.18	0.44
21:1L:283:ARG:HH21	46:BH:360:GLY:H	1.65	0.44
21:1L:428:GLN:O	21:1L:429:PHE:HB3	2.17	0.44
10:1Q:1:MET:C	10:1Q:3:LYS:H	2.26	0.44
25:1R:415:VAL:HB	25:1R:441:LEU:HD12	1.98	0.44
25:1R:463:PHE:CD2	25:1R:464:LEU:HG	2.52	0.44
11:1S:129:ILE:HD12	11:1S:129:ILE:H	1.82	0.44
13:1U:487:LEU:HB3	13:1U:517:TRP:CZ3	2.52	0.44
14:1V:119:ILE:HG23	14:1V:120:GLU:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1W:61:LYS:NZ	46:LH:361:LEU:HD22	2.31	0.44
15:1X:132:VAL:O	46:MD:276:ARG:NH2	2.35	0.44
4:2D:99:ARG:HH22	45:EK:365:GLY:H	1.65	0.44
30:2H:199:GLU:O	30:2H:200:TYR:HB3	2.17	0.44
22:2M:23:TYR:HD1	22:2M:38:ASP:HA	1.83	0.44
22:2M:111:ILE:HG12	22:2M:170:TRP:HZ3	1.81	0.44
23:2O:249:LYS:C	23:2O:253:LYS:HZ2	2.25	0.44
23:2O:318:LEU:HD21	45:VE:362:VAL:HG13	1.98	0.44
23:2O:458:GLN:O	23:2O:461:LYS:HG2	2.18	0.44
24:2P:315:ARG:O	24:2P:319:GLU:HG2	2.18	0.44
24:2P:399:GLN:HB2	24:2P:400:LYS:HZ2	1.81	0.44
11:2S:84:SER:HA	13:2U:249:ASN:ND2	2.33	0.44
12:2T:213:LEU:HD13	12:2T:218:PHE:HE2	1.82	0.44
13:2U:193:LYS:HB2	46:WJ:80:PRO:HD3	1.98	0.44
5:3E:171:VAL:HG12	5:3E:181:PHE:CZ	2.52	0.44
31:3I:207:LYS:HD3	31:3I:208:ASN:N	2.33	0.44
23:3O:372:ALA:HA	23:3O:375:GLN:OE1	2.18	0.44
23:3O:418:GLN:HA	23:3O:421:LYS:HG3	2.00	0.44
10:3Q:14:LEU:HD12	10:3Q:25:TRP:CE2	2.52	0.44
10:3Q:97:LYS:O	10:3Q:99:VAL:N	2.50	0.44
11:3S:154:ASN:HB2	11:3S:187:PHE:CZ	2.53	0.44
11:3S:256:LEU:HB2	11:3S:309:MET:HG2	1.99	0.44
13:3U:31:ILE:HG13	13:3U:40:VAL:HG12	1.98	0.44
13:3U:341:THR:HA	13:3U:364:GLU:HG3	1.98	0.44
13:3U:431:VAL:HG12	13:3U:443:ALA:HA	1.99	0.44
10:4Q:22:LEU:HD12	10:4Q:22:LEU:O	2.17	0.44
10:4Q:103:PHE:HD1	10:4Q:119:CYS:HB3	1.83	0.44
34:4R:573:LEU:HD21	34:4R:580:LEU:HB2	1.99	0.44
15:4X:31:ASP:O	15:4X:32:LEU:HB2	2.17	0.44
37:5F:96:TYR:O	37:5F:100:VAL:HG22	2.18	0.44
37:5G:78:LEU:HD21	37:5G:97:ARG:HG2	2.00	0.44
34:5R:215:LEU:HA	34:5R:218:ILE:HG13	1.99	0.44
34:5R:472:GLU:OE2	46:EJ:80:PRO:HD3	2.18	0.44
35:5S:102:LEU:HD21	35:5S:127:LEU:HD12	1.99	0.44
39:6F:119:GLU:HA	39:6F:122:GLU:HG3	2.00	0.44
41:6H:286:GLU:HG2	41:6H:289:LYS:HA	1.98	0.44
10:6Q:170:ARG:NE	10:6Q:172:TYR:CZ	2.85	0.44
34:7R:219:LYS:HZ2	46:BD:78:ALA:HB3	1.83	0.44
42:8L:119:UNK:O	42:8L:120:UNK:C	2.66	0.44
46:AB:274:THR:HB	46:AB:282:ARG:NH2	2.32	0.44
45:AC:21:TRP:CZ2	45:AC:65:ALA:HB2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AC:178:SER:OG	46:AD:347:ASN:HB3	2.18	0.44
46:AD:201:VAL:HG23	46:AD:301:CYS:SG	2.58	0.44
46:AH:164:MET:O	46:AH:197:ASP:HB3	2.17	0.44
45:AI:107:HIS:ND1	45:AI:107:HIS:O	2.51	0.44
45:BA:90:GLU:HG2	45:BA:121:ARG:NH2	2.31	0.44
45:BA:254:GLU:HG2	46:BD:98:GLY:HA2	2.00	0.44
45:BA:263:PRO:HD3	46:BD:396:HIS:NE2	2.33	0.44
45:BC:268:MET:HG3	45:BC:380:ASN:HB2	2.00	0.44
45:BG:424:ASP:OD1	45:BG:425:LEU:N	2.50	0.44
46:BL:30:ILE:HG13	46:BL:51:TYR:HE2	1.82	0.44
45:BM:91:GLN:NE2	45:BM:125:LEU:HD21	2.32	0.44
45:BM:206:ASN:HB3	45:BM:210:TYR:CE2	2.52	0.44
45:CA:240:ALA:HA	45:CA:243:ARG:NH1	2.32	0.44
46:CB:347:ASN:HD22	46:CB:347:ASN:C	2.24	0.44
45:CC:21:TRP:CZ2	45:CC:65:ALA:HB2	2.53	0.44
46:CF:347:ASN:C	46:CF:347:ASN:HD22	2.25	0.44
45:CG:75:ILE:HG23	45:CG:92:LEU:HD12	1.99	0.44
45:CG:145:THR:HG22	47:CG:501:GTP:PG	2.57	0.44
46:CH:163:ILE:HD11	46:CH:251:ARG:HE	1.82	0.44
46:CJ:226:ASN:ND2	49:CJ:501:GDP:HN1	2.15	0.44
46:CN:3:GLU:HG3	46:CN:62:ARG:HH12	1.82	0.44
46:CN:47:ILE:HG12	46:CN:51:TYR:HB2	1.99	0.44
46:CN:86:ARG:HG3	46:CN:88:ASP:H	1.83	0.44
46:DD:258:ILE:O	46:DD:258:ILE:HG13	2.17	0.44
46:DD:330:MET:HA	46:DD:333:VAL:HG12	2.00	0.44
46:DF:183:TYR:CZ	46:DF:388:MET:SD	3.11	0.44
46:DF:324:LYS:NZ	45:DG:210:TYR:CD1	2.85	0.44
46:DJ:64:ILE:HD13	46:DJ:119:VAL:HG13	1.98	0.44
46:DJ:318:ARG:HB3	46:DJ:357:PRO:HA	2.00	0.44
46:DL:201:VAL:HG23	46:DL:301:CYS:SG	2.58	0.44
46:DL:322:SER:H	45:DM:221:ARG:NH2	2.16	0.44
45:EC:26:LEU:CD2	45:EC:364:PRO:HD3	2.48	0.44
45:EI:141:VAL:HG12	45:EI:171:ILE:O	2.17	0.44
46:EL:303:ALA:HA	46:EL:376:GLU:OE2	2.17	0.44
46:FB:4:ILE:HG13	46:FB:132:GLY:O	2.18	0.44
45:FC:115:VAL:HG11	45:FC:152:LEU:HD23	2.00	0.44
45:FC:174:SER:HB2	45:FC:177:VAL:O	2.18	0.44
46:FD:178:THR:HG22	46:FD:180:VAL:H	1.82	0.44
45:FE:414:GLU:OE1	45:FE:416:GLY:N	2.47	0.44
45:FI:265:ILE:HG23	45:FI:432:TYR:OH	2.17	0.44
46:FJ:113:ILE:HG21	46:FJ:154:LYS:NZ	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FK:288:VAL:HA	45:FK:291:ILE:HG12	1.99	0.44
45:FM:209:ILE:HG12	45:FM:302:MET:HG3	2.00	0.44
46:FN:12:CYS:HA	46:FN:15:GLN:NE2	2.31	0.44
46:FN:54:ALA:HB3	46:FN:58:ARG:HG2	1.99	0.44
45:GA:27:GLU:OE2	45:GA:243:ARG:NH2	2.51	0.44
45:GE:132:LEU:HD22	45:GE:164:LYS:HD2	1.98	0.44
46:GF:379:LYS:O	46:GF:383:GLU:HG2	2.17	0.44
45:GI:229:ARG:HH12	45:GI:363:VAL:HG21	1.83	0.44
45:GK:274:PRO:HG3	45:GK:286:LEU:HD23	1.99	0.44
45:GK:324:VAL:HG12	45:GK:326:LYS:HG2	1.99	0.44
45:GK:419:SER:O	45:GK:422:ARG:N	2.50	0.44
46:GL:1:MET:O	46:GL:2:ARG:HG2	2.18	0.44
46:GN:376:GLU:HA	46:GN:379:LYS:HG2	1.98	0.44
45:HA:71:GLU:HA	45:HA:72:PRO:HD3	1.87	0.44
45:HC:105:ARG:HG2	45:HC:411:GLU:CD	2.42	0.44
45:HC:256:GLN:H	45:HC:256:GLN:CD	2.25	0.44
46:HL:6:HIS:HD2	46:HL:7:ILE:N	2.16	0.44
45:HM:88:HIS:ND1	45:HM:90:GLU:HG2	2.33	0.44
46:HN:318:ARG:HH11	46:HN:358:PRO:HG3	1.82	0.44
46:IB:22:GLU:HA	46:IB:81:PHE:HD1	1.81	0.44
46:IB:116:VAL:HA	46:IB:119:VAL:HG22	1.99	0.44
45:IG:3:GLU:OE2	45:IG:131:GLY:N	2.48	0.44
45:II:402:ARG:NH1	45:II:415:GLU:OE2	2.51	0.44
46:IJ:282:ARG:NH2	46:IJ:288:GLU:OE2	2.45	0.44
46:IJ:295:ASP:HB3	46:IJ:298:ASN:HB2	1.98	0.44
45:IM:227:LEU:O	45:IM:230:LEU:HG	2.17	0.44
46:IN:135:ILE:HB	46:IN:166:THR:HG22	1.98	0.44
45:JA:2:ARG:HH21	46:JD:70:PRO:HD2	1.83	0.44
45:JC:271:SER:OG	45:JC:301:MET:SD	2.75	0.44
46:JD:113:ILE:HD13	46:JD:150:LEU:HD22	1.99	0.44
45:JE:184:PRO:O	45:JE:188:ILE:HG12	2.17	0.44
46:JF:289:LEU:HD23	46:JF:289:LEU:HA	1.81	0.44
46:JF:299:MET:HG3	46:JF:305:PRO:HG3	2.00	0.44
45:JG:40:LYS:NZ	45:JG:42:ILE:HD13	2.33	0.44
46:JL:187:LEU:HD11	46:JL:408:PHE:CE2	2.52	0.44
46:JL:342:VAL:HG13	46:JL:345:ILE:HG22	2.00	0.44
45:JM:420:GLU:HA	45:JM:423:GLU:CD	2.42	0.44
46:KB:148:GLY:O	46:KB:152:ILE:HG13	2.18	0.44
46:KB:252:LYS:HG2	46:KB:350:LYS:HE3	1.99	0.44
45:KC:203:MET:C	45:KC:204:LEU:HD22	2.42	0.44
45:KC:274:PRO:HG3	45:KC:286:LEU:HD12	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KE:54:SER:HB3	45:KE:64:ARG:NH2	2.32	0.44
45:KE:411:GLU:N	45:KE:411:GLU:OE1	2.50	0.44
46:KF:202:ILE:HD11	46:KF:300:MET:HE2	1.99	0.44
45:KI:53:PHE:O	45:KI:64:ARG:NH2	2.51	0.44
45:KK:324:VAL:O	45:KK:328:VAL:HG23	2.18	0.44
45:KM:209:ILE:HD12	45:KM:227:LEU:HB3	2.00	0.44
46:LB:371:SER:O	46:LB:422:TYR:OH	2.30	0.44
45:LC:102:ASN:ND2	45:LC:105:ARG:HG3	2.32	0.44
46:LF:156:ARG:HA	46:LF:156:ARG:HD2	1.77	0.44
46:LH:3:GLU:HG3	46:LH:62:ARG:NH1	2.33	0.44
45:LK:275:ILE:HD13	45:LK:275:ILE:HA	1.87	0.44
45:MA:164:LYS:HA	45:MA:164:LYS:HD3	1.74	0.44
45:MA:272:TYR:CD2	45:MA:275:ILE:HD11	2.52	0.44
46:MB:110:ALA:O	46:MB:113:ILE:HG22	2.18	0.44
46:MB:254:ALA:O	46:MB:258:ILE:HG12	2.18	0.44
45:MC:298:PRO:O	45:MC:301:MET:HG2	2.17	0.44
46:MD:21:TRP:HA	46:MD:24:ILE:HG22	2.00	0.44
46:MD:372:THR:HA	46:MD:422:TYR:HE2	1.82	0.44
45:MG:24:PHE:CE1	45:MG:52:PHE:HE2	2.35	0.44
45:NA:27:GLU:HB3	45:NA:361:THR:HG21	1.99	0.44
46:NB:167:PHE:CE2	46:NB:233:MET:HG2	2.52	0.44
45:NC:305:CYS:HA	45:NC:386:GLU:OE2	2.17	0.44
45:NE:19:ALA:HA	45:NE:22:GLU:OE2	2.18	0.44
45:NE:231:ILE:O	45:NE:235:ILE:HG12	2.16	0.44
46:NF:146:GLY:O	46:NF:149:THR:HG22	2.17	0.44
45:NG:346:TRP:CD1	46:NJ:391:ARG:HG3	2.52	0.44
46:NH:117:LEU:HA	46:NH:120:VAL:HG22	2.00	0.44
45:NI:89:PRO:HG2	45:OI:280:LYS:NZ	2.31	0.44
46:NJ:208:TYR:HE1	46:NJ:225:LEU:HD11	1.82	0.44
46:NJ:258:ILE:HG13	46:NJ:266:PHE:HZ	1.82	0.44
45:NK:100:ALA:HB1	46:NL:252:LYS:HA	1.99	0.44
46:NL:374:ILE:HD12	46:NL:378:PHE:HE2	1.83	0.44
46:OB:199:CYS:O	46:OB:200:MET:HE2	2.18	0.44
46:OD:32:PRO:HB3	46:OD:81:PHE:HA	1.99	0.44
45:OE:429:GLU:O	45:OE:433:GLU:OE1	2.35	0.44
46:OH:87:PRO:HA	46:OH:90:PHE:HD2	1.83	0.44
45:OI:51:THR:HG21	45:OI:243:ARG:HB3	1.99	0.44
46:OJ:139:LEU:HG	46:OJ:168:SER:HB3	1.99	0.44
46:OJ:158:GLU:HG2	46:OJ:159:TYR:CD1	2.52	0.44
45:OK:188:ILE:HA	45:OK:191:THR:HG22	1.99	0.44
45:OM:317:MET:HE1	45:OM:351:PHE:HD2	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ON:17:GLY:HA2	46:ON:20:PHE:HB3	1.99	0.44
46:PB:207:LEU:HD13	46:PB:225:LEU:HB3	2.00	0.44
45:PC:3:GLU:OE2	45:PC:131:GLY:N	2.38	0.44
45:PC:176:GLN:OE1	45:PC:176:GLN:N	2.50	0.44
45:PE:320:ARG:HB2	45:PE:358:GLN:O	2.18	0.44
46:PF:396:HIS:HA	46:PF:399:THR:OG1	2.18	0.44
45:PG:352:LYS:NZ	46:PJ:179:VAL:H	2.00	0.44
46:PH:178:THR:HG22	46:PH:180:VAL:H	1.82	0.44
46:PH:289:LEU:O	46:PH:293:MET:HG3	2.17	0.44
46:PH:318:ARG:HB3	46:PH:357:PRO:HA	1.98	0.44
45:PI:117:LEU:O	45:PI:121:ARG:HG2	2.17	0.44
45:PI:317:MET:HE2	45:PI:317:MET:HB3	1.79	0.44
46:PJ:154:LYS:HA	46:PJ:154:LYS:HD3	1.86	0.44
45:PK:103:PHE:H	45:PK:408:TYR:HE2	1.66	0.44
45:PM:259:LEU:HD11	45:PM:316:SER:HB3	2.00	0.44
45:PM:331:SER:O	45:PM:335:ILE:HG12	2.17	0.44
46:QB:65:LEU:HD12	46:QB:90:PHE:CD2	2.53	0.44
45:QE:202:VAL:HA	45:QE:268:MET:O	2.17	0.44
45:QG:284:GLU:CD	45:QG:286:LEU:H	2.24	0.44
45:QG:308:ARG:HH11	45:QG:308:ARG:HG2	1.81	0.44
46:QH:376:GLU:O	46:QH:380:ARG:HG2	2.18	0.44
45:QI:141:VAL:HG11	45:QI:172:TYR:CD1	2.50	0.44
45:RA:352:LYS:HD2	46:RB:177:ASP:O	2.17	0.44
46:RB:269:GLY:C	46:RB:293:MET:HE1	2.43	0.44
45:RC:253:THR:HA	45:RC:256:GLN:NE2	2.32	0.44
46:RD:253:LEU:O	46:RD:257:LEU:HD23	2.17	0.44
46:RF:256:ASN:OD1	45:RG:181:VAL:HG22	2.18	0.44
45:RG:138:PHE:CD1	45:RG:169:PHE:HB2	2.52	0.44
46:RH:51:TYR:HB3	46:RH:59:TYR:HB3	2.00	0.44
46:RH:276:ARG:HA	46:RH:276:ARG:HD3	1.81	0.44
45:RM:414:GLU:CD	45:RM:416:GLY:H	2.25	0.44
45:SC:132:LEU:HB3	45:SC:164:LYS:HZ1	1.83	0.44
46:SD:252:LYS:NZ	47:SE:501:GTP:O1G	2.33	0.44
46:SF:280:GLN:HG2	46:SF:281:TYR:HD1	1.83	0.44
46:SJ:314:SER:HA	46:SJ:350:LYS:O	2.17	0.44
45:SK:305:CYS:SG	45:SK:306:ASP:N	2.91	0.44
45:SK:346:TRP:H	45:SK:346:TRP:CD1	2.36	0.44
45:SM:31:GLN:NE2	45:SM:37:PRO:HB3	2.33	0.44
45:TE:212:ILE:HD11	45:TE:300:ASN:HA	1.99	0.44
46:TF:256:ASN:ND2	46:TF:350:LYS:HE2	2.32	0.44
46:TF:337:ASN:HB3	46:TF:340:TYR:HD2	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TG:127:ASP:OD1	45:TG:128:ASN:N	2.51	0.44
46:TH:27:GLU:HA	46:TH:359:LYS:HE2	2.00	0.44
45:TI:317:MET:HE1	45:TI:351:PHE:HD1	1.82	0.44
46:TJ:206:ALA:O	46:TJ:210:ILE:HG12	2.17	0.44
46:TJ:380:ARG:HA	46:TJ:383:GLU:CD	2.42	0.44
46:TL:136:THR:HG22	46:TL:167:PHE:HB2	1.99	0.44
46:TL:164:MET:O	46:TL:197:ASP:HB2	2.17	0.44
45:TM:227:LEU:O	45:TM:231:ILE:HG12	2.17	0.44
45:UA:188:ILE:HD11	45:UA:391:LEU:HB3	1.98	0.44
46:UB:47:ILE:HG12	46:UB:51:TYR:HB2	1.99	0.44
46:UD:86:ARG:HA	46:VD:281:TYR:CE1	2.53	0.44
45:UG:286:LEU:O	45:UG:373:ARG:NH1	2.50	0.44
45:UI:434:GLU:O	45:UI:437:ILE:HG12	2.17	0.44
46:UJ:22:GLU:HG2	46:UJ:81:PHE:CD1	2.53	0.44
46:UL:73:MET:HE1	46:UL:92:PHE:CG	2.52	0.44
46:UN:86:ARG:NH1	46:UN:88:ASP:HB3	2.33	0.44
46:UN:102:ALA:CB	46:UN:403:MET:HE2	2.46	0.44
46:VB:69:GLU:HA	46:VB:70:PRO:HD3	1.85	0.44
46:VB:377:MET:O	46:VB:380:ARG:HD3	2.17	0.44
45:VC:227:LEU:O	45:VC:231:ILE:HG12	2.17	0.44
46:VF:9:GLY:HA2	46:VF:66:MET:O	2.18	0.44
46:VF:407:GLU:CD	46:VF:407:GLU:H	2.25	0.44
46:VH:77:ARG:CZ	46:VH:83:GLN:HA	2.48	0.44
46:VH:178:THR:HG22	46:VH:180:VAL:H	1.82	0.44
45:VI:8:HIS:HB2	45:VI:67:PHE:CD1	2.52	0.44
46:VJ:198:GLU:HG2	46:VJ:266:PHE:HE2	1.82	0.44
46:VJ:286:VAL:O	46:VJ:290:THR:HG23	2.17	0.44
46:VJ:391:ARG:HA	46:VJ:391:ARG:HD2	1.74	0.44
45:VK:174:SER:CB	45:VK:207:GLU:HG3	2.47	0.44
45:VK:288:VAL:HA	45:VK:291:ILE:HG12	1.98	0.44
45:WA:136:LEU:HD22	45:WA:169:PHE:HE2	1.82	0.44
45:WA:136:LEU:HD23	45:WA:167:LEU:HB2	2.00	0.44
45:WC:180:ALA:HA	46:WD:350:LYS:CE	2.46	0.44
45:WE:356:ASN:OD1	45:WE:357:TYR:N	2.50	0.44
46:WF:1:MET:HB3	46:WF:46:ARG:HH21	1.82	0.44
46:WF:164:MET:SD	46:WF:196:ALA:HA	2.58	0.44
45:WG:180:ALA:HA	46:WH:350:LYS:HE2	1.99	0.44
45:WI:79:ARG:O	45:WI:84:ARG:HG2	2.17	0.44
45:WK:31:GLN:HB2	45:WK:33:ASP:OD1	2.18	0.44
45:WK:133:GLN:C	45:WK:252:ILE:HD11	2.43	0.44
45:WK:222:PRO:O	46:WL:324:LYS:HG2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WK:269:LEU:HD23	45:WK:379:SER:O	2.17	0.44
46:WL:109:GLY:HA2	46:WL:147:MET:HE2	1.99	0.44
45:WM:4:VAL:O	45:WM:64:ARG:NE	2.49	0.44
45:CE:121:ARG:HH12	45:CE:124:LYS:HD2	1.83	0.44
45:DC:51:THR:HG21	45:DC:243:ARG:HB3	1.99	0.44
1:0A:35:TYR:HE2	1:0A:41:THR:HG23	1.83	0.44
1:0A:72:GLY:N	45:AA:221:ARG:HH11	2.15	0.44
2:0B:119:PRO:O	2:0B:120:THR:OG1	2.35	0.44
6:0F:80:TYR:CD1	6:0F:84:TYR:HD2	2.35	0.44
6:0F:110:ASP:OD1	6:0F:111:GLU:N	2.50	0.44
9:0N:217:TRP:HB2	9:0N:270:ASN:HD21	1.83	0.44
13:0U:325:ASP:OD1	13:0U:325:ASP:N	2.48	0.44
13:0U:544:GLU:O	13:0U:546:GLU:N	2.45	0.44
13:0U:546:GLU:HG2	13:0U:547:HIS:NE2	2.33	0.44
15:0X:64:ARG:O	15:0X:67:GLU:HG3	2.18	0.44
4:1D:166:ARG:CD	4:1D:167:ILE:H	2.24	0.44
7:1G:74:VAL:O	7:1G:78:THR:OG1	2.23	0.44
20:1K:115:ARG:HD2	20:1K:115:ARG:HA	1.87	0.44
21:1L:362:LEU:HD21	34:4R:179:ARG:HH12	1.81	0.44
22:1M:3:ASP:HB3	22:1M:4:ILE:H	1.62	0.44
22:1M:314:VAL:HG13	22:1M:315:LYS:N	2.32	0.44
23:1O:240:LYS:HD3	23:1O:240:LYS:HA	1.78	0.44
10:1Q:21:PRO:HG2	10:1Q:36:ARG:HD3	2.00	0.44
25:1R:68:MET:HA	25:1R:68:MET:HE2	1.98	0.44
12:1T:65:ARG:HH21	46:MF:111:GLU:H	1.66	0.44
13:1U:107:SER:O	13:1U:108:LEU:HD23	2.18	0.44
13:1U:488:PHE:HE1	45:VE:84:ARG:HH21	1.66	0.44
13:1U:580:ARG:HB2	13:1U:593:VAL:CG2	2.48	0.44
14:1V:221:LYS:HZ2	46:VL:83:GLN:HG3	1.83	0.44
14:1V:266:ASP:OD1	14:1V:267:THR:N	2.49	0.44
26:1W:165:ILE:HD13	46:LD:279:GLN:NE2	2.30	0.44
16:2B:139:THR:HG23	16:2B:142:GLN:H	1.82	0.44
28:2F:93:GLU:OE1	45:HE:298:PRO:HG2	2.18	0.44
31:2I:20:LEU:HD12	31:2I:21:LEU:N	2.33	0.44
20:2K:252:HIS:O	20:2K:256:GLN:OE1	2.36	0.44
20:2K:376:TYR:HD1	31:3I:288:ILE:HG21	1.83	0.44
21:2L:545:GLU:O	21:2L:549:LEU:HD23	2.18	0.44
23:2O:393:ASP:HB3	23:2O:397:ARG:NH2	2.33	0.44
23:2O:427:LEU:HB2	45:VA:282:TYR:CE2	2.52	0.44
10:2Q:135:ASN:C	10:2Q:137:SER:H	2.25	0.44
12:2T:73:GLU:OE1	12:2T:107:ARG:NH2	2.39	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:2U:81:GLN:HB2	13:2U:99:LYS:HE3	1.98	0.44
13:2U:495:GLN:O	13:2U:508:THR:HG22	2.17	0.44
13:2U:557:VAL:O	13:2U:571:GLY:N	2.51	0.44
27:3C:261:LEU:O	27:3C:263:ILE:HG12	2.16	0.44
32:3D:43:VAL:CG2	32:3D:70:VAL:HG22	2.48	0.44
25:3R:203:ILE:O	25:3R:203:ILE:HG13	2.18	0.44
25:3R:282:ILE:HB	25:3R:298:TYR:HB3	1.98	0.44
11:3S:84:SER:O	12:3T:35:LEU:HD12	2.18	0.44
11:3S:161:GLN:OE1	11:3S:164:GLN:NE2	2.51	0.44
11:3S:205:LEU:HB3	11:3S:206:PRO:HD3	2.00	0.44
11:3S:213:ILE:HD12	11:3S:213:ILE:H	1.83	0.44
13:3U:457:VAL:HG12	13:3U:464:ALA:HB2	2.00	0.44
13:3U:592:SER:HG	13:3U:602:TRP:HE1	1.66	0.44
14:3V:266:ASP:OD1	14:3V:267:THR:N	2.50	0.44
15:3X:91:LYS:O	15:3X:95:ILE:HG12	2.17	0.44
35:4S:152:THR:O	35:4S:153:LYS:HG2	2.17	0.44
15:4X:4:VAL:HG23	15:4X:5:LYS:HG3	1.99	0.44
36:5A:138:ARG:HE	46:ND:359:LYS:NZ	2.16	0.44
37:5E:154:TYR:HE2	37:5F:11:TRP:CE2	2.35	0.44
37:5G:61:LYS:HG2	46:OJ:276:ARG:NH2	2.32	0.44
37:5H:54:LYS:HD2	46:ON:227:HIS:ND1	2.33	0.44
34:5R:89:ASP:OD2	34:5R:90:ARG:HG2	2.17	0.44
35:5S:76:ILE:HA	35:5S:89:TRP:HD1	1.81	0.44
46:AB:130:LEU:HD21	46:AB:133:PHE:CE1	2.52	0.44
46:AF:272:PRO:HG3	46:AF:284:LEU:HD11	2.00	0.44
45:AG:176:GLN:O	46:AH:347:ASN:ND2	2.51	0.44
46:AH:19:LYS:HG3	46:AH:226:ASN:HB3	1.99	0.44
46:AH:77:ARG:NH1	46:AH:77:ARG:HB3	2.33	0.44
45:AK:331:SER:O	45:AK:335:ILE:HG12	2.17	0.44
46:AL:139:LEU:HD13	46:AL:168:SER:HB2	1.98	0.44
46:BB:21:TRP:CZ2	46:BB:63:ALA:HB2	2.53	0.44
45:BC:11:GLN:HG3	45:BC:15:GLN:OE1	2.17	0.44
45:BE:9:VAL:HG13	45:BE:139:ASN:HB3	2.00	0.44
45:BE:319:TYR:HB3	45:BE:323:VAL:HG11	1.98	0.44
45:BG:68:LEU:HD21	45:BG:118:CYS:SG	2.57	0.44
45:BG:414:GLU:CD	45:BG:416:GLY:H	2.24	0.44
46:BH:73:MET:HE1	46:BH:92:PHE:HB3	2.00	0.44
45:BI:401:LYS:HE2	46:BJ:344:TRP:CZ3	2.53	0.44
46:BJ:304:ASP:OD2	46:BJ:306:ARG:HG2	2.17	0.44
45:BK:224:TYR:HD1	45:BK:227:LEU:HD12	1.82	0.44
46:BL:318:ARG:HD3	46:BL:358:PRO:HD3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BM:104:ALA:HA	45:BM:413:MET:HE2	1.99	0.44
45:CC:155:GLU:OE2	45:CC:156:ARG:HG3	2.18	0.44
46:CH:216:LYS:HB3	46:CH:275:SER:HB3	2.00	0.44
46:CJ:113:ILE:HD13	46:CJ:150:LEU:HD22	1.98	0.44
45:CK:21:TRP:CH2	45:CK:63:PRO:HB3	2.52	0.44
45:CK:259:LEU:HD11	45:CK:316:SER:HB2	1.99	0.44
45:CM:141:VAL:HG12	45:CM:171:ILE:O	2.17	0.44
46:DD:217:LEU:HD23	46:DD:219:THR:H	1.81	0.44
45:DE:345:ASP:N	45:DE:345:ASP:OD2	2.46	0.44
46:DH:390:ARG:HA	46:DH:390:ARG:CZ	2.48	0.44
46:DL:28:HIS:HA	46:DL:43:GLN:CD	2.43	0.44
45:EA:408:TYR:HB3	45:EA:413:MET:HE2	1.99	0.44
45:EC:272:TYR:HD1	45:EC:376:CYS:SG	2.41	0.44
45:EC:390:ARG:O	45:EC:394:LYS:HD3	2.17	0.44
45:EE:422:ARG:HD2	45:EE:425:LEU:HD11	1.99	0.44
46:EF:190:HIS:CE1	46:EF:414:ASN:HD22	2.35	0.44
46:EF:341:PHE:HB3	46:EF:348:ASN:HD21	1.82	0.44
45:EI:108:TYR:HA	45:EI:112:LYS:HE3	1.98	0.44
45:EI:259:LEU:HD13	45:EI:314:ALA:HB1	1.99	0.44
46:EL:313:ALA:HB1	46:EL:367:PHE:CE1	2.52	0.44
46:FD:64:ILE:HG13	46:FD:120:VAL:HG22	2.00	0.44
46:FD:86:ARG:NH1	46:GD:281:TYR:HB3	2.30	0.44
46:FD:406:MET:O	46:FD:410:GLU:HG3	2.17	0.44
45:FE:438:GLU:H	45:FE:438:GLU:CD	2.26	0.44
46:FF:117:LEU:HA	46:FF:120:VAL:HG12	2.00	0.44
46:FF:156:ARG:HH22	46:FF:197:ASP:CG	2.26	0.44
45:FG:71:GLU:OE2	45:FG:73:THR:OG1	2.28	0.44
45:FI:343:PHE:CZ	45:FI:351:PHE:HE1	2.36	0.44
46:FL:86:ARG:HB3	46:FL:89:ASN:CG	2.42	0.44
45:GA:201:ALA:HB3	45:GA:267:PHE:HD2	1.82	0.44
45:GA:276:ILE:HD12	45:GA:281:ALA:HB1	1.99	0.44
45:GC:387:VAL:HA	45:GC:390:ARG:HG2	1.99	0.44
45:GC:425:LEU:HD23	45:GC:425:LEU:HA	1.79	0.44
45:GE:2:ARG:O	45:GE:51:THR:HA	2.17	0.44
45:GE:100:ALA:HB1	46:GF:252:LYS:HA	2.00	0.44
45:GE:326:LYS:HG3	46:GH:220:PRO:HG2	2.00	0.44
45:GG:68:LEU:HD13	45:GG:93:ILE:HB	1.99	0.44
45:GI:296:PHE:CE2	45:GI:335:ILE:HG21	2.53	0.44
45:GM:141:VAL:HG11	45:GM:172:TYR:HD1	1.83	0.44
45:HC:297:GLU:HG2	45:HC:298:PRO:HD2	2.00	0.44
45:HC:317:MET:SD	45:HC:377:MET:HG2	2.58	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HE:88:HIS:H	45:HE:91:GLN:NE2	2.15	0.44
46:HJ:68:LEU:HD21	46:HJ:147:MET:CE	2.48	0.44
46:HJ:94:GLN:OE1	46:HJ:94:GLN:N	2.50	0.44
45:HM:212:ILE:HD11	45:HM:300:ASN:HA	2.00	0.44
45:IA:75:ILE:HD12	45:IA:75:ILE:H	1.82	0.44
45:IC:18:ASN:O	45:IC:22:GLU:OE1	2.35	0.44
45:IE:268:MET:HG3	45:IE:380:ASN:HB2	1.99	0.44
45:IG:241:SER:HA	45:IG:356:ASN:HD21	1.83	0.44
46:IH:135:ILE:HB	46:IH:166:THR:HG22	1.99	0.44
45:II:434:GLU:O	45:II:437:ILE:HG12	2.17	0.44
46:IJ:232:ALA:HB1	46:IJ:268:ILE:HD12	1.99	0.44
46:IL:309:ARG:NH2	46:IL:426:GLN:O	2.41	0.44
46:IL:347:ASN:C	46:IL:347:ASN:HD22	2.24	0.44
45:IM:103:PHE:H	45:IM:408:TYR:HE2	1.66	0.44
45:JA:322:ASP:HB2	45:JA:372:MET:HE1	1.99	0.44
45:JA:420:GLU:OE2	45:NA:308:ARG:NE	2.38	0.44
46:JB:16:ILE:HD13	46:JB:226:ASN:OD1	2.17	0.44
46:JB:183:TYR:CD1	46:JB:388:MET:HE3	2.53	0.44
45:JC:377:MET:SD	45:JC:379:SER:HB3	2.57	0.44
46:JD:166:THR:HG1	46:JD:199:CYS:HA	1.82	0.44
46:JF:63:ALA:O	46:JF:89:ASN:ND2	2.48	0.44
45:JG:261:PRO:HA	46:JJ:394:PHE:CD1	2.53	0.44
46:JJ:284:LEU:HD22	46:JJ:362:LYS:HB3	1.99	0.44
46:JJ:294:PHE:CD2	46:JJ:333:VAL:HG21	2.53	0.44
46:KB:6:HIS:O	46:KB:63:ALA:HA	2.17	0.44
46:KB:200:MET:HE1	46:KB:266:PHE:HB2	2.00	0.44
45:KE:205:ASP:OD1	45:KE:303:ALA:HA	2.17	0.44
46:KF:268:ILE:O	46:KF:300:MET:HB2	2.17	0.44
46:KJ:416:ASN:HA	46:KJ:419:VAL:HG12	2.00	0.44
46:KL:273:LEU:H	46:KL:292:GLN:NE2	2.13	0.44
45:LA:53:PHE:HB3	45:LA:61:HIS:HB3	2.00	0.44
45:LA:345:ASP:OD2	45:LA:438:GLU:HG2	2.17	0.44
46:LB:248:SER:HA	46:LB:252:LYS:HD2	1.98	0.44
45:LC:288:VAL:HA	45:LC:291:ILE:CG1	2.45	0.44
46:LH:67:ASP:O	46:LH:92:PHE:HA	2.18	0.44
46:LJ:336:LYS:HE2	46:LJ:336:LYS:HB2	1.70	0.44
45:LK:221:ARG:HH12	46:LL:320:ARG:NH2	2.15	0.44
45:LK:430:LYS:O	45:LK:434:GLU:OE1	2.36	0.44
45:LM:363:VAL:HG13	45:LM:366:GLY:HA3	2.00	0.44
46:LN:86:ARG:NH1	46:MN:281:TYR:HB3	2.32	0.44
46:LN:86:ARG:CZ	46:MN:281:TYR:HB3	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:MB:384:GLN:O	46:MB:388:MET:HG2	2.16	0.44
45:MC:372:MET:SD	45:MC:372:MET:N	2.79	0.44
45:MG:56:THR:HG23	45:MG:58:ALA:H	1.83	0.44
45:MG:434:GLU:O	45:MG:437:ILE:HG12	2.18	0.44
46:MJ:113:ILE:HA	46:MJ:116:VAL:HG12	1.98	0.44
46:ML:238:CYS:SG	46:ML:239:CYS:N	2.91	0.44
45:NA:426:ALA:O	45:NA:429:GLU:HG3	2.17	0.44
46:NB:242:PHE:HB3	46:NB:356:ILE:HD13	1.99	0.44
45:NC:208:ALA:HB2	45:NC:304:LYS:HG3	1.99	0.44
45:NC:286:LEU:HD12	45:NC:291:ILE:HG22	2.00	0.44
45:NE:138:PHE:CE1	45:NE:169:PHE:HD2	2.36	0.44
45:NE:183:GLU:N	45:NE:184:PRO:HD2	2.31	0.44
45:NG:223:THR:HG23	45:NG:225:THR:HG23	2.00	0.44
46:NH:409:THR:O	46:NH:412:GLU:HG3	2.18	0.44
45:NM:399:TYR:OH	45:NM:402:ARG:NH2	2.51	0.44
45:OA:297:GLU:HB2	45:OA:300:ASN:ND2	2.32	0.44
45:OA:426:ALA:O	45:OA:430:LYS:HG2	2.18	0.44
46:OB:372:THR:HG21	46:OB:426:GLN:HB2	2.00	0.44
46:OD:113:ILE:HG21	46:OD:150:LEU:HD22	1.99	0.44
46:OD:173:PRO:HD3	46:OD:380:ARG:NH1	2.33	0.44
46:OF:310:TYR:HA	46:OF:371:SER:HB2	1.99	0.44
45:OI:257:THR:HG22	46:OL:397:TRP:CZ3	2.53	0.44
45:OK:175:PRO:HD2	45:OK:207:GLU:OE2	2.18	0.44
45:OK:326:LYS:HG3	46:ON:208:TYR:CE1	2.53	0.44
45:OK:407:TRP:CE3	46:OL:255:VAL:HG12	2.52	0.44
46:OL:87:PRO:HG2	46:PL:278:SER:OG	2.18	0.44
46:OL:290:THR:HA	46:OL:293:MET:HG2	2.00	0.44
45:PA:71:GLU:HA	45:PA:72:PRO:HD3	1.82	0.44
45:PA:224:TYR:CD1	45:PA:227:LEU:HD12	2.53	0.44
45:PC:10:GLY:O	45:PC:14:ILE:HG12	2.17	0.44
46:PD:86:ARG:HH22	46:QB:278:SER:HA	1.83	0.44
46:PD:258:ILE:HG13	46:PD:266:PHE:HZ	1.82	0.44
46:PD:290:THR:HA	46:PD:293:MET:SD	2.57	0.44
46:PF:149:THR:OG1	46:PF:191:GLN:NE2	2.51	0.44
46:PH:139:LEU:HD22	46:PH:188:SER:OG	2.18	0.44
46:PH:140:GLY:HA2	46:PH:181:GLU:OE1	2.17	0.44
46:PH:257:LEU:HD21	46:PH:314:SER:HB2	1.98	0.44
45:PI:116:ASP:HA	45:PI:156:ARG:HH12	1.82	0.44
45:PI:141:VAL:HG11	45:PI:172:TYR:CD1	2.52	0.44
45:PK:242:LEU:HD21	45:PK:251:ASP:HA	1.99	0.44
46:PL:286:VAL:HG12	46:PL:329:GLN:OE1	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PM:23:LEU:O	45:PM:27:GLU:OE1	2.35	0.44
45:PM:205:ASP:OD1	45:PM:303:ALA:HA	2.16	0.44
46:QD:276:ARG:HA	46:QD:276:ARG:HD2	1.78	0.44
45:QE:434:GLU:O	45:QE:437:ILE:HG22	2.17	0.44
46:QH:303:ALA:HB2	46:QH:377:MET:HE1	1.99	0.44
46:RB:238:CYS:SG	46:RB:318:ARG:HD3	2.58	0.44
46:RB:380:ARG:HA	46:RB:383:GLU:CD	2.43	0.44
45:RC:231:ILE:O	45:RC:235:ILE:HG12	2.18	0.44
46:RD:201:VAL:HG23	46:RD:301:CYS:SG	2.58	0.44
46:RF:3:GLU:HG3	46:RF:62:ARG:NH1	2.32	0.44
46:RF:217:LEU:HD23	46:RF:219:THR:H	1.82	0.44
46:RF:380:ARG:HE	46:RF:380:ARG:HB3	1.62	0.44
46:RH:251:ARG:O	46:RH:255:VAL:HG12	2.17	0.44
45:RI:430:LYS:O	45:RI:433:GLU:HG3	2.18	0.44
46:RJ:251:ARG:HH21	45:RK:105:ARG:NH1	2.16	0.44
46:RN:116:VAL:HA	46:RN:119:VAL:HG12	2.00	0.44
46:SB:44:LEU:HA	46:SB:47:ILE:HB	1.99	0.44
46:SB:313:ALA:O	46:SB:349:ILE:HA	2.17	0.44
45:SC:217:LEU:HB3	45:SC:219:ILE:HG13	1.99	0.44
46:SF:253:LEU:HD22	46:SF:350:LYS:NZ	2.32	0.44
45:SG:30:ILE:HD11	45:SG:34:GLY:O	2.17	0.44
46:SH:61:PRO:HG2	46:SH:85:PHE:HD1	1.81	0.44
46:SH:251:ARG:O	46:SH:255:VAL:HG12	2.17	0.44
46:SH:359:LYS:HA	46:SH:359:LYS:HD2	1.66	0.44
46:SL:296:ALA:HB1	46:SL:305:PRO:HD2	2.00	0.44
46:SN:91:VAL:HG21	46:SN:116:VAL:HB	1.99	0.44
45:TA:91:GLN:HB3	45:TA:121:ARG:HD2	1.99	0.44
46:TB:245:GLN:O	45:TC:11:GLN:NE2	2.51	0.44
45:TC:425:LEU:O	45:TC:429:GLU:OE1	2.35	0.44
46:TD:69:GLU:CD	46:TD:71:GLY:H	2.25	0.44
46:TD:390:ARG:NE	46:TD:390:ARG:HA	2.33	0.44
45:TE:73:THR:O	45:TE:77:GLU:OE1	2.35	0.44
45:TE:75:ILE:HG23	45:TE:92:LEU:HD23	1.99	0.44
46:TF:1:MET:HA	45:TG:96:LYS:HZ1	1.82	0.44
45:TG:244:PHE:HB2	45:TG:356:ASN:HD21	1.83	0.44
46:TH:99:ASN:HA	46:TH:142:GLY:H	1.83	0.44
45:TI:9:VAL:HG13	45:TI:139:ASN:HB3	2.00	0.44
45:TK:19:ALA:HA	45:TK:22:GLU:OE1	2.18	0.44
46:TL:51:TYR:C	46:TL:62:ARG:HH21	2.25	0.44
46:TL:129:CYS:HB3	45:TM:96:LYS:CE	2.46	0.44
46:TL:163:ILE:O	46:TL:164:MET:HE2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TN:31:ASP:OD2	46:TN:37:HIS:ND1	2.50	0.44
46:TN:262:ARG:NH1	46:TN:421:GLU:OE1	2.49	0.44
45:UA:140:SER:OG	47:UA:501:GTP:O2B	2.36	0.44
45:UA:172:TYR:CD2	45:UA:203:MET:HG3	2.52	0.44
45:UA:215:ARG:NH2	45:UA:299:ALA:O	2.49	0.44
46:UB:3:GLU:HB2	46:UB:62:ARG:NH1	2.32	0.44
46:UB:391:ARG:HD2	46:UB:391:ARG:HA	1.83	0.44
45:UC:3:GLU:HG3	45:UC:129:CYS:SG	2.58	0.44
45:UC:19:ALA:HA	45:UC:22:GLU:OE1	2.17	0.44
45:UC:186:ASN:OD1	45:UC:187:SER:N	2.51	0.44
45:UC:251:ASP:HB3	45:UC:254:GLU:HG3	2.00	0.44
45:UC:298:PRO:HB2	45:UC:308:ARG:NH1	2.32	0.44
46:UH:119:VAL:O	46:UH:123:GLU:OE1	2.35	0.44
46:UH:150:LEU:O	46:UH:153:SER:OG	2.30	0.44
45:UI:285:GLN:OE1	45:UI:285:GLN:N	2.51	0.44
46:UJ:200:MET:HE1	46:UJ:268:ILE:CG2	2.47	0.44
46:UL:65:LEU:HD11	46:UL:85:PHE:CD2	2.53	0.44
46:UL:170:VAL:HG12	46:UL:202:ILE:O	2.18	0.44
46:UL:226:ASN:HA	46:UL:229:VAL:HG22	2.00	0.44
46:UL:403:MET:HE3	46:UL:404:ASP:H	1.83	0.44
46:UN:289:LEU:HD23	46:UN:292:GLN:NE2	2.32	0.44
45:VA:224:TYR:HE1	47:VA:501:GTP:C4	2.35	0.44
45:VC:171:ILE:HG22	45:VC:204:LEU:HB2	1.99	0.44
46:VD:184:ASN:OD1	46:VD:185:ALA:N	2.51	0.44
46:VD:248:SER:HA	46:VD:252:LYS:HG3	2.00	0.44
45:VE:426:ALA:O	45:VE:430:LYS:HG2	2.17	0.44
46:VF:226:ASN:HA	46:VF:229:VAL:HG12	2.00	0.44
46:VF:344:TRP:HB3	46:VF:430:ALA:HB2	1.99	0.44
45:VG:200:VAL:HG13	45:VG:268:MET:HE2	1.99	0.44
45:VG:221:ARG:NH1	46:VH:325:GLU:H	2.15	0.44
45:VG:221:ARG:CZ	46:VH:322:SER:OG	2.66	0.44
46:VH:21:TRP:CH2	46:VH:61:PRO:HB3	2.53	0.44
46:VL:111:GLU:OE2	46:VL:112:LEU:HG	2.18	0.44
46:VL:409:THR:O	46:VL:412:GLU:HG3	2.17	0.44
45:VM:141:VAL:HG11	45:VM:172:TYR:HA	2.00	0.44
45:VM:401:LYS:HB2	45:VM:401:LYS:HE3	1.82	0.44
46:VN:152:ILE:HD12	46:VN:164:MET:HE3	1.98	0.44
46:VN:193:VAL:HG22	46:VN:262:ARG:CZ	2.48	0.44
46:VN:212:PHE:O	46:VN:216:LYS:HE2	2.18	0.44
45:WA:301:MET:HE1	45:WA:307:PRO:HD3	1.99	0.44
45:WC:5:ILE:HB	45:WC:135:PHE:CD1	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WC:211:ASP:HA	45:WC:214:ARG:HG2	2.00	0.44
45:WC:416:GLY:O	45:WC:419:SER:OG	2.28	0.44
46:WD:66:MET:HE1	46:WD:147:MET:HB3	1.99	0.44
45:WE:251:ASP:HB3	45:WE:253:THR:HG22	1.98	0.44
46:WF:105:HIS:CD2	46:WF:150:LEU:HB2	2.53	0.44
46:WJ:222:TYR:O	46:WJ:226:ASN:ND2	2.26	0.44
45:WK:430:LYS:HA	45:WK:433:GLU:CD	2.42	0.44
45:WM:14:ILE:HD12	45:WM:67:PHE:HB3	1.99	0.44
45:WM:372:MET:HE2	45:WM:373:ARG:NH1	2.33	0.44
46:WN:186:THR:HA	46:WN:189:VAL:HG12	1.99	0.44
46:WN:317:PHE:CD2	46:WN:365:VAL:HG22	2.53	0.44
46:WN:344:TRP:HE3	46:WN:345:ILE:HG23	1.82	0.44
46:WN:406:MET:O	46:WN:410:GLU:HG2	2.18	0.44
2:0B:58:ARG:HA	46:JH:74:ASP:OD2	2.18	0.44
7:0G:38:GLU:HG3	7:0G:39:ARG:N	2.26	0.44
9:0N:157:ILE:H	9:0N:157:ILE:HD12	1.83	0.44
12:0T:39:ALA:O	12:0T:43:ILE:HG12	2.18	0.44
13:0U:449:ARG:HH12	13:0U:472:SER:HB3	1.83	0.44
1:1A:36:ARG:NH2	1:1A:48:GLN:OE1	2.46	0.44
16:1B:435:LEU:O	16:1B:438:GLN:HG2	2.18	0.44
4:1D:212:ASN:C	4:1D:212:ASN:HD22	2.26	0.44
7:1G:91:VAL:HG13	46:JB:279:GLN:HB3	2.00	0.44
7:1G:155:PRO:HB3	45:KA:26:LEU:HD12	1.98	0.44
21:1L:514:ALA:HA	21:1L:517:ARG:HD3	1.99	0.44
21:1L:623:GLN:O	21:1L:627:ILE:HG12	2.16	0.44
22:1M:46:LEU:HA	46:IF:78:ALA:O	2.17	0.44
22:1M:281:TYR:HE1	22:1M:294:ILE:HG12	1.83	0.44
9:1N:15:ARG:HH11	9:1N:19:TRP:CD1	2.36	0.44
9:1N:221:ASP:OD1	9:1N:222:ASN:N	2.50	0.44
23:1O:104:GLU:HB3	23:1O:108:GLN:HE22	1.83	0.44
23:1O:148:MET:SD	23:1O:149:TYR:HD1	2.40	0.44
24:1P:293:LYS:O	24:1P:297:GLU:HG2	2.17	0.44
24:1P:340:ARG:NE	45:TC:31:GLN:HG2	2.33	0.44
24:1P:353:ASN:O	24:1P:357:ILE:HG12	2.18	0.44
13:1U:4:GLU:HA	13:1U:570:SER:H	1.83	0.44
14:1V:254:ASP:O	14:1V:257:LYS:HG3	2.17	0.44
26:1W:140:ILE:HD11	45:LC:282:TYR:CD1	2.53	0.44
16:2B:65:LEU:O	16:2B:68:VAL:HG12	2.17	0.44
4:2D:95:GLN:NE2	45:EK:364:PRO:HB2	2.33	0.44
31:2I:32:PHE:HE1	45:GG:177:VAL:HG21	1.82	0.44
20:2K:268:ASN:O	20:2K:272:GLU:HG2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:2M:110:ILE:HD11	22:2M:190:ILE:CD1	2.48	0.44
9:2N:121:TYR:HA	9:2N:138:LYS:HZ2	1.83	0.44
23:2O:258:LYS:HG3	23:2O:259:LYS:HD3	2.00	0.44
23:2O:281:GLU:O	23:2O:284:VAL:HG22	2.17	0.44
10:2Q:2:PHE:HB3	10:2Q:7:GLN:HE22	1.83	0.44
10:2Q:100:ARG:HB2	10:2Q:100:ARG:NH1	2.32	0.44
25:2R:189:ASP:OD1	25:2R:190:CYS:N	2.50	0.44
12:2T:213:LEU:HA	12:2T:218:PHE:HE2	1.82	0.44
13:2U:68:LYS:HG3	13:2U:69:TYR:CD1	2.53	0.44
13:2U:263:LYS:HZ2	13:2U:308:GLU:HG2	1.83	0.44
26:2W:213:GLN:HA	26:2W:216:GLU:HG3	1.98	0.44
12:3T:38:LYS:HG3	12:3T:42:HIS:CE1	2.52	0.44
12:3T:138:ILE:HD12	12:3T:138:ILE:H	1.83	0.44
13:3U:381:TRP:CD1	13:3U:387:ARG:HH11	2.35	0.44
14:3V:153:GLU:OE1	14:3V:154:ASN:N	2.50	0.44
15:3X:13:SER:HB3	15:3X:17:ASP:HB2	2.00	0.44
27:4C:218:ARG:NH2	27:4C:297:ASP:HB3	2.32	0.44
33:4F:152:GLN:H	33:4F:152:GLN:CD	2.26	0.44
10:4Q:173:SER:O	10:4Q:177:LEU:HG	2.18	0.44
34:4R:318:TYR:CE1	46:CF:273:LEU:HD23	2.50	0.44
34:4R:391:PHE:HD2	46:EF:215:LEU:HD21	1.83	0.44
35:4S:176:GLY:O	35:4S:180:VAL:HG23	2.17	0.44
36:5A:66:TYR:CD2	46:NB:32:PRO:HD2	2.53	0.44
36:5D:87:ARG:NH2	45:NM:363:VAL:HG22	2.32	0.44
36:5D:104:PRO:HB3	45:KM:390:ARG:HD3	2.00	0.44
10:5Q:10:PHE:HE1	10:5Q:172:TYR:CD2	2.36	0.44
40:6G:113:ASN:O	40:6G:114:LYS:HE2	2.17	0.44
34:6R:146:LYS:HD2	34:6R:146:LYS:H	1.82	0.44
34:6R:242:ASN:HB2	45:BM:57:GLY:HA3	2.00	0.44
46:AB:27:GLU:HA	46:AB:359:LYS:HG3	1.98	0.44
45:AC:151:SER:HB2	45:AC:193:SER:OG	2.18	0.44
45:AC:200:VAL:HG13	45:AC:268:MET:CE	2.47	0.44
46:AD:55:THR:HG23	46:BD:283:ALA:HA	1.99	0.44
46:AD:68:LEU:HD23	46:AD:97:ALA:N	2.32	0.44
45:AK:141:VAL:HG11	45:AK:172:TYR:CD1	2.53	0.44
45:AK:177:VAL:HG13	46:AL:327:ASP:OD1	2.18	0.44
45:AK:210:TYR:CE1	45:AK:227:LEU:HD21	2.52	0.44
46:AL:272:PRO:HG3	46:AL:284:LEU:HD11	2.00	0.44
45:AM:26:LEU:HD21	45:AM:364:PRO:HD2	2.00	0.44
46:AN:262:ARG:HH12	46:AN:421:GLU:HG3	1.83	0.44
45:BC:183:GLU:N	45:BC:184:PRO:HD2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BD:252:LYS:O	46:BD:256:ASN:ND2	2.50	0.44
45:BG:207:GLU:HB3	45:BG:304:LYS:HG3	1.98	0.44
45:BG:230:LEU:HD11	45:BG:302:MET:HE1	1.99	0.44
46:BH:221:THR:OG1	46:BH:222:TYR:N	2.51	0.44
46:BJ:184:ASN:OD1	46:BJ:185:ALA:N	2.51	0.44
45:BM:68:LEU:HD11	45:BM:118:CYS:HB2	1.99	0.44
45:BM:401:LYS:HD3	45:BM:401:LYS:O	2.18	0.44
45:CA:167:LEU:HD22	45:CA:200:VAL:HB	1.99	0.44
46:CB:213:ARG:HH21	46:CB:297:LYS:HG3	1.83	0.44
46:CD:209:ASP:OD1	46:CD:213:ARG:NH1	2.51	0.44
46:CH:55:THR:HG23	46:DH:283:ALA:HA	2.00	0.44
46:CJ:183:TYR:O	46:CJ:187:LEU:HD23	2.18	0.44
46:CJ:238:CYS:SG	46:CJ:239:CYS:N	2.91	0.44
45:CK:89:PRO:HD2	45:DK:280:LYS:HE3	1.99	0.44
45:CK:117:LEU:O	45:CK:121:ARG:HG2	2.18	0.44
45:CM:21:TRP:HZ2	45:CM:65:ALA:HB2	1.82	0.44
45:DA:91:GLN:HB3	45:DA:121:ARG:HD2	2.00	0.44
45:DE:349:THR:O	46:DF:179:VAL:HG23	2.18	0.44
45:DE:414:GLU:CD	45:DE:416:GLY:H	2.23	0.44
46:DF:208:TYR:CE1	46:DF:225:LEU:HD11	2.53	0.44
46:DF:252:LYS:HE2	45:DG:101:ASN:HB2	2.00	0.44
45:DI:141:VAL:HG12	45:DI:171:ILE:O	2.17	0.44
45:DI:346:TRP:CD1	46:DJ:391:ARG:HG3	2.53	0.44
46:DL:384:GLN:O	46:DL:388:MET:HG2	2.17	0.44
45:EA:271:SER:HA	45:EA:302:MET:HG2	1.98	0.44
45:EE:414:GLU:CD	45:EE:416:GLY:H	2.25	0.44
46:EF:171:PRO:HG2	46:EF:185:ALA:HB2	1.99	0.44
45:EG:101:ASN:HA	45:EG:144:GLY:H	1.82	0.44
46:EH:39:ASP:OD2	46:EH:40:SER:N	2.51	0.44
46:EH:114:ASP:OD1	46:EH:115:SER:N	2.48	0.44
46:EJ:164:MET:O	46:EJ:197:ASP:HB2	2.18	0.44
45:EK:319:TYR:HB3	45:EK:323:VAL:HG21	1.99	0.44
46:FB:201:VAL:HG23	46:FB:301:CYS:SG	2.58	0.44
45:FC:64:ARG:NH1	45:FC:129:CYS:SG	2.91	0.44
46:FD:3:GLU:CD	46:FD:3:GLU:H	2.26	0.44
46:FD:355:ASP:OD1	46:FD:356:ILE:HD12	2.18	0.44
45:FE:194:LEU:O	45:FE:198:THR:HG22	2.18	0.44
45:FG:105:ARG:NH1	46:FH:251:ARG:HD3	2.33	0.44
45:FI:244:PHE:HB2	45:FI:356:ASN:HD21	1.83	0.44
46:FJ:113:ILE:HD13	46:FJ:154:LYS:NZ	2.32	0.44
45:FK:107:HIS:ND1	45:FK:107:HIS:O	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FN:273:LEU:N	46:FN:292:GLN:HE22	2.06	0.44
46:FN:312:THR:HG22	46:FN:370:ASN:HB3	2.00	0.44
45:GA:223:THR:HG23	45:GA:225:THR:H	1.82	0.44
45:GC:133:GLN:OE1	45:GC:133:GLN:HA	2.16	0.44
46:GD:115:SER:O	46:GD:119:VAL:HG23	2.18	0.44
45:GE:294:SER:O	45:GE:297:GLU:HG3	2.18	0.44
45:GK:55:GLU:HG3	45:GK:57:GLY:H	1.82	0.44
45:GK:332:ILE:HD12	45:GK:351:PHE:CD1	2.52	0.44
46:GL:214:THR:HG23	46:GL:215:LEU:HD12	1.98	0.44
45:GM:68:LEU:HD21	45:GM:118:CYS:SG	2.57	0.44
46:GN:385:PHE:CE2	46:GN:412:GLU:HB3	2.51	0.44
45:HA:203:MET:HE2	45:HA:269:LEU:HD12	2.00	0.44
46:HB:119:VAL:HA	46:HB:122:LYS:HG2	1.98	0.44
46:HD:68:LEU:HD13	46:HD:93:GLY:HA3	1.99	0.44
45:HE:377:MET:SD	45:HE:379:SER:HB3	2.57	0.44
45:HK:188:ILE:HD12	45:HK:425:LEU:HD11	1.99	0.44
46:HL:319:GLY:HA2	46:HL:357:PRO:HD3	2.00	0.44
45:HM:18:ASN:O	45:HM:22:GLU:HG2	2.18	0.44
45:HM:210:TYR:CE1	45:HM:227:LEU:HD11	2.53	0.44
46:HN:300:MET:N	46:HN:300:MET:SD	2.91	0.44
45:IA:88:HIS:CE1	45:IA:90:GLU:HB3	2.53	0.44
45:IA:122:ILE:HD12	45:IA:157:LEU:HD21	1.99	0.44
46:IB:196:ALA:HB3	46:IB:264:HIS:HE1	1.81	0.44
46:IB:238:CYS:HB2	46:IB:318:ARG:NH1	2.32	0.44
46:ID:30:ILE:HG13	46:ID:51:TYR:HE2	1.82	0.44
46:IF:66:MET:CE	46:IF:147:MET:HE3	2.48	0.44
45:IG:88:HIS:O	45:IG:91:GLN:HG2	2.18	0.44
45:II:174:SER:HB2	45:II:177:VAL:O	2.18	0.44
45:II:241:SER:OG	45:II:250:VAL:O	2.17	0.44
46:IJ:324:LYS:O	46:IJ:325:GLU:C	2.60	0.44
45:IK:18:ASN:O	45:IK:22:GLU:OE1	2.36	0.44
46:IL:105:HIS:CE1	46:IL:150:LEU:HD12	2.52	0.44
45:JA:35:GLN:N	45:JA:35:GLN:OE1	2.51	0.44
46:JB:284:LEU:HD12	46:JB:362:LYS:HZ3	1.83	0.44
45:JC:21:TRP:CH2	45:JC:63:PRO:HB3	2.52	0.44
45:JC:98:ASP:O	45:JC:105:ARG:NH1	2.51	0.44
46:JD:232:ALA:O	46:JD:236:VAL:HG23	2.18	0.44
45:JE:175:PRO:HB2	45:JE:176:GLN:CD	2.43	0.44
45:JE:340:THR:HG23	45:JE:341:ILE:HD12	1.99	0.44
45:JG:227:LEU:O	45:JG:231:ILE:HG12	2.18	0.44
45:JG:408:TYR:O	45:JG:413:MET:HB3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JL:11:GLN:O	46:JL:15:GLN:HG2	2.18	0.44
45:KC:167:LEU:HG	45:KC:200:VAL:HB	1.99	0.44
46:KD:121:ARG:NE	46:KD:158:GLU:OE2	2.33	0.44
45:KE:251:ASP:H	45:KE:254:GLU:HB2	1.83	0.44
46:KF:206:ALA:O	46:KF:210:ILE:HG12	2.17	0.44
45:KG:107:HIS:ND1	45:KG:107:HIS:O	2.49	0.44
46:KJ:313:ALA:HB1	46:KJ:367:PHE:HE1	1.82	0.44
46:KL:217:LEU:HD11	46:KL:220:PRO:HB3	1.98	0.44
46:LF:122:LYS:C	46:LF:122:LYS:HD3	2.42	0.44
46:LF:330:MET:CE	46:LF:349:ILE:HG21	2.47	0.44
46:LF:372:THR:HA	46:LF:422:TYR:CZ	2.52	0.44
45:LG:36:MET:HE3	45:LG:37:PRO:HD2	1.98	0.44
46:LJ:156:ARG:HG3	46:LJ:195:ASN:HB3	2.00	0.44
45:LM:408:TYR:HD2	45:LM:418:PHE:HZ	1.66	0.44
45:MA:101:ASN:HA	45:MA:144:GLY:H	1.81	0.44
45:MA:260:VAL:HG12	45:MA:266:HIS:HA	2.00	0.44
46:MD:21:TRP:CZ2	46:MD:63:ALA:HB2	2.52	0.44
46:MD:117:LEU:HA	46:MD:120:VAL:HG12	1.98	0.44
45:ME:328:VAL:O	45:ME:332:ILE:HG12	2.18	0.44
46:MF:101:TRP:CE3	46:MF:187:LEU:HD23	2.53	0.44
45:MG:84:ARG:H	45:MG:84:ARG:HG2	1.65	0.44
46:MJ:273:LEU:H	46:MJ:292:GLN:NE2	2.14	0.44
46:MJ:330:MET:HE2	46:MJ:330:MET:HA	1.99	0.44
45:NE:210:TYR:OH	46:NF:323:THR:OG1	2.26	0.44
46:NH:31:ASP:HB2	46:NH:32:PRO:CD	2.48	0.44
45:NI:210:TYR:CE1	45:NI:227:LEU:HD11	2.45	0.44
46:NJ:73:MET:HE1	46:NJ:92:PHE:CG	2.53	0.44
45:OA:203:MET:SD	45:OA:267:PHE:HB3	2.58	0.44
45:OC:253:THR:O	45:OC:257:THR:HG23	2.17	0.44
45:OC:329:ASN:ND2	46:OF:175:VAL:HG12	2.33	0.44
46:OF:391:ARG:HA	46:OF:391:ARG:HD2	1.77	0.44
45:OG:426:ALA:O	45:OG:429:GLU:HG3	2.18	0.44
45:OI:210:TYR:CE1	45:OI:227:LEU:HD21	2.52	0.44
46:OJ:6:HIS:CD2	46:OJ:21:TRP:HE1	2.36	0.44
46:OJ:258:ILE:HG13	46:OJ:266:PHE:HZ	1.82	0.44
45:OK:297:GLU:CD	45:OK:299:ALA:H	2.25	0.44
45:OM:326:LYS:HE3	45:OM:326:LYS:HB2	1.77	0.44
46:ON:372:THR:HG21	46:ON:426:GLN:HG3	2.00	0.44
46:ON:399:THR:HA	46:ON:403:MET:O	2.18	0.44
45:PA:328:VAL:HG11	45:PA:353:VAL:HG21	1.99	0.44
46:PJ:312:THR:HG22	46:PJ:370:ASN:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PK:51:THR:HG21	45:PK:243:ARG:HB3	2.00	0.44
45:PK:324:VAL:HG12	45:PK:326:LYS:HG2	2.00	0.44
46:PL:294:PHE:CD1	46:PL:333:VAL:HG21	2.53	0.44
45:PM:10:GLY:O	45:PM:14:ILE:HG12	2.17	0.44
45:PM:427:ALA:HA	45:PM:430:LYS:NZ	2.32	0.44
46:PN:181:GLU:OE1	46:PN:181:GLU:HA	2.18	0.44
46:PN:381:VAL:HA	46:PN:384:GLN:HE21	1.82	0.44
45:QA:326:LYS:HD3	46:QB:212:PHE:CZ	2.53	0.44
46:QB:309:ARG:HH21	46:QB:342:VAL:HG23	1.82	0.44
46:QB:330:MET:HA	46:QB:333:VAL:HG12	1.99	0.44
46:QD:267:MET:CE	46:QD:301:CYS:HB2	2.43	0.44
45:QE:417:GLU:HA	45:QE:420:GLU:OE2	2.17	0.44
46:QF:312:THR:HG22	46:QF:370:ASN:HB3	1.99	0.44
45:QG:264:ARG:HG3	45:QG:264:ARG:HH11	1.82	0.44
46:QH:187:LEU:HD21	46:QH:408:PHE:HE2	1.83	0.44
46:QH:347:ASN:ND2	45:QI:178:SER:OG	2.34	0.44
46:QJ:18:ALA:O	46:QJ:22:GLU:HG3	2.16	0.44
46:QJ:108:GLU:O	46:QJ:111:GLU:HG3	2.18	0.44
45:QK:143:GLY:HA3	47:QK:501:GTP:O2B	2.18	0.44
46:QL:164:MET:HG3	46:QL:197:ASP:OD2	2.16	0.44
46:QL:238:CYS:SG	46:QL:239:CYS:N	2.90	0.44
45:RA:262:TYR:OH	46:RB:391:ARG:O	2.35	0.44
46:RB:174:LYS:HB2	46:RB:205:GLU:HG3	1.99	0.44
46:RB:232:ALA:HA	46:RB:270:PHE:HD2	1.83	0.44
45:RC:428:LEU:HG	45:RC:432:TYR:HE2	1.83	0.44
46:RF:72:THR:OG1	46:RF:73:MET:SD	2.74	0.44
46:RF:311:LEU:HD22	46:RF:370:ASN:ND2	2.33	0.44
45:RG:154:LEU:HD13	45:RG:197:HIS:HB3	1.99	0.44
46:RH:274:THR:HB	46:RH:282:ARG:HE	1.82	0.44
46:RH:350:LYS:NZ	46:RH:352:SER:OG	2.27	0.44
45:RI:8:HIS:NE2	45:RI:138:PHE:HD2	2.16	0.44
45:RI:387:VAL:HA	45:RI:390:ARG:HG2	1.99	0.44
46:RJ:46:ARG:NH1	46:RJ:243:PRO:HD3	2.31	0.44
45:SA:141:VAL:HG11	45:SA:172:TYR:HD1	1.83	0.44
45:SA:210:TYR:CE1	45:SA:227:LEU:HD11	2.53	0.44
45:SA:346:TRP:CD1	46:SB:391:ARG:HG3	2.52	0.44
45:SC:388:PHE:HB3	45:SC:425:LEU:HD11	1.99	0.44
46:SD:69:GLU:OE2	46:SD:72:THR:HG23	2.18	0.44
46:SD:252:LYS:HA	46:SD:255:VAL:HG12	1.98	0.44
46:SF:116:VAL:O	46:SF:120:VAL:HG22	2.17	0.44
46:SF:330:MET:HE2	46:SF:349:ILE:HG21	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SH:318:ARG:HH11	46:SH:358:PRO:HG3	1.81	0.44
45:SI:434:GLU:O	45:SI:437:ILE:HG22	2.18	0.44
45:SK:254:GLU:HA	45:SK:257:THR:HG22	1.98	0.44
45:SK:256:GLN:H	45:SK:256:GLN:CD	2.26	0.44
46:SN:65:LEU:HD22	46:SN:90:PHE:CE1	2.52	0.44
45:TC:7:ILE:HB	45:TC:137:VAL:HG12	1.99	0.44
46:TD:290:THR:O	46:TD:293:MET:HB3	2.18	0.44
45:TG:315:CYS:SG	45:TG:377:MET:HE2	2.58	0.44
46:TH:317:PHE:CD1	46:TH:365:VAL:HG22	2.53	0.44
45:TI:51:THR:HG22	45:TI:52:PHE:CD1	2.52	0.44
46:TJ:28:HIS:C	46:TJ:43:GLN:HE21	2.26	0.44
46:TJ:73:MET:HA	46:TJ:76:VAL:HG12	1.99	0.44
46:TJ:230:SER:HA	46:TJ:233:MET:HE3	1.99	0.44
45:TK:231:ILE:O	45:TK:235:ILE:HG12	2.17	0.44
46:TL:390:ARG:HA	46:TL:390:ARG:NE	2.33	0.44
45:TM:19:ALA:HA	45:TM:22:GLU:OE1	2.18	0.44
45:TM:320:ARG:N	45:TM:373:ARG:HH12	2.15	0.44
46:UB:132:GLY:HA2	46:UB:162:ARG:HB3	1.99	0.44
45:UC:229:ARG:O	45:UC:233:GLN:HG2	2.18	0.44
45:UE:258:ASN:CG	45:UE:352:LYS:HD2	2.43	0.44
46:UH:2:ARG:NH2	45:UI:96:LYS:O	2.50	0.44
45:UI:326:LYS:HD3	46:UJ:212:PHE:CZ	2.52	0.44
45:UK:326:LYS:HZ2	46:UL:220:PRO:N	2.16	0.44
46:UL:87:PRO:HA	46:UL:90:PHE:HD2	1.82	0.44
46:UL:391:ARG:HA	46:UL:391:ARG:HD2	1.75	0.44
46:UN:22:GLU:HG2	46:UN:81:PHE:CD1	2.53	0.44
46:VB:172:SER:OG	46:VB:205:GLU:OE2	2.27	0.44
46:VB:214:THR:HB	46:VB:297:LYS:NZ	2.32	0.44
46:VB:282:ARG:HD3	46:VB:283:ALA:O	2.18	0.44
45:VC:251:ASP:H	45:VC:254:GLU:HG3	1.82	0.44
45:VC:326:LYS:HD3	46:VF:220:PRO:HD2	2.00	0.44
45:VC:352:LYS:NZ	46:VF:179:VAL:HG22	2.32	0.44
46:VD:3:GLU:OE1	46:VD:127:CYS:HB2	2.18	0.44
46:VD:3:GLU:OE2	46:VD:3:GLU:N	2.50	0.44
46:VD:44:LEU:HD22	46:VD:47:ILE:HD13	1.99	0.44
46:VF:42:LEU:HA	46:VF:45:GLU:HG2	2.00	0.44
46:VF:376:GLU:O	46:VF:379:LYS:HG2	2.18	0.44
45:VG:47:ASP:OD1	45:VG:47:ASP:N	2.50	0.44
46:VJ:101:TRP:HB3	46:VJ:398:TYR:HE1	1.81	0.44
45:VK:331:SER:O	45:VK:335:ILE:HG12	2.18	0.44
46:VL:204:ASN:O	46:VL:208:TYR:HD1	2.01	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:WB:190:HIS:CD2	46:WB:414:ASN:HD22	2.35	0.44
46:WD:165:GLU:OE1	46:WD:198:GLU:HB2	2.18	0.44
45:WG:152:LEU:HD13	45:WG:155:GLU:OE2	2.17	0.44
45:WI:111:GLY:O	45:WI:115:VAL:HG13	2.17	0.44
45:WK:103:PHE:CE1	45:WK:148:GLY:HA2	2.53	0.44
46:WL:45:GLU:HG3	46:WL:46:ARG:HD3	2.00	0.44
45:WM:68:LEU:HD21	45:WM:149:LEU:HD12	1.99	0.44
46:WN:203:ASP:HB2	46:WN:301:CYS:HA	2.00	0.44
45:DC:328:VAL:O	45:DC:332:ILE:HG12	2.17	0.44
1:0A:58:TYR:OH	46:MB:45:GLU:OE1	2.33	0.44
3:0C:51:ASN:C	45:EI:221:ARG:HH22	2.26	0.44
5:0E:121:ARG:O	34:7R:579:ASN:ND2	2.45	0.44
5:0E:142:VAL:HA	5:0E:145:GLU:HG3	2.00	0.44
6:0F:121:GLN:NE2	6:0F:122:LEU:HG	2.33	0.44
9:0N:194:TYR:OH	26:2W:245:LEU:HD11	2.18	0.44
10:0Q:24:ILE:HG13	10:0Q:62:PRO:HA	1.99	0.44
13:0U:50:PHE:C	13:0U:51:LEU:HD12	2.43	0.44
16:1B:487:LYS:O	16:1B:490:GLN:HG2	2.18	0.44
5:1E:99:ILE:HG23	5:1E:102:LYS:NZ	2.33	0.44
17:1F:119:ALA:HA	17:1F:122:GLU:OE1	2.17	0.44
8:1H:60:ARG:NH1	46:HN:33:THR:HG23	2.33	0.44
18:1I:28:GLU:OE2	46:JD:216:LYS:HB3	2.18	0.44
21:1L:409:ILE:HG22	21:1L:436:PHE:CD2	2.53	0.44
21:1L:426:LYS:HD2	21:1L:449:LEU:HD13	2.00	0.44
21:1L:620:LEU:O	21:1L:625:ARG:NH1	2.51	0.44
23:1O:163:LYS:HA	23:1O:166:ILE:HG22	1.99	0.44
24:1P:218:ALA:O	45:TG:282:TYR:OH	2.33	0.44
10:1Q:92:GLN:O	10:1Q:152:LEU:N	2.50	0.44
11:1S:77:HIS:HB3	13:1U:266:ILE:HG22	1.99	0.44
13:1U:430:ARG:HH22	45:WE:365:GLY:H	1.64	0.44
13:1U:494:LYS:HG2	13:1U:537:ASN:HA	1.99	0.44
14:1V:93:MET:O	46:LJ:261:PRO:HB2	2.16	0.44
15:1X:42:LYS:HA	15:1X:42:LYS:HD2	1.78	0.44
5:2E:38:ASP:HA	5:2E:39:ARG:CZ	2.47	0.44
31:2I:118:LYS:HZ3	45:GC:339:ARG:HB3	1.83	0.44
21:2L:282:LYS:NZ	21:2L:284:ILE:HD13	2.28	0.44
21:2L:575:LYS:HZ3	45:AM:85:GLN:HG2	1.83	0.44
21:2L:617:ARG:C	21:2L:618:ARG:HD3	2.43	0.44
21:2L:633:ALA:O	21:2L:637:GLN:HG2	2.18	0.44
21:2L:928:PHE:O	21:2L:932:VAL:HG23	2.16	0.44
23:2O:226:GLU:HB3	23:2O:230:ARG:HH12	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:2O:352:ARG:HH22	46:VF:276:ARG:HH12	1.66	0.44
10:2Q:29:ILE:HD11	10:2Q:49:ILE:HD11	2.00	0.44
25:2R:143:ASN:OD1	46:BJ:218:THR:OG1	2.25	0.44
12:2T:214:ASN:C	12:2T:216:LYS:H	2.26	0.44
13:2U:78:MET:SD	13:2U:78:MET:N	2.86	0.44
13:2U:224:ARG:NH1	45:WG:40:LYS:O	2.50	0.44
26:2W:210:GLN:HA	26:2W:213:GLN:NE2	2.33	0.44
5:3E:131:LYS:HZ3	5:3E:137:MET:CE	2.29	0.44
31:3I:205:ILE:HD13	45:FK:116:ASP:OD2	2.18	0.44
23:3O:278:ARG:O	23:3O:281:GLU:HB3	2.17	0.44
12:3T:103:VAL:O	12:3T:103:VAL:HG13	2.18	0.44
13:3U:557:VAL:O	13:3U:571:GLY:N	2.51	0.44
14:3V:50:ASN:OD1	14:3V:51:LEU:N	2.50	0.44
27:4C:66:LEU:HB2	27:4C:71:TYR:CZ	2.53	0.44
27:4C:123:HIS:ND1	27:4C:124:PRO:HD2	2.31	0.44
34:4R:316:THR:O	46:CF:227:HIS:NE2	2.45	0.44
34:4R:520:PRO:C	34:4R:522:VAL:H	2.26	0.44
35:4S:214:LEU:H	35:4S:214:LEU:HD23	1.83	0.44
36:5B:127:GLU:OE2	46:NH:276:ARG:NH2	2.51	0.44
36:5D:63:THR:O	36:5D:64:LYS:HE2	2.18	0.44
37:5F:117:ILE:HG22	37:5F:119:GLU:H	1.83	0.44
37:5G:142:TYR:HB2	46:OL:279:GLN:CD	2.43	0.44
34:5R:318:TYR:CB	34:5R:321:MET:HE2	2.48	0.44
35:5S:176:GLY:O	35:5S:180:VAL:HG23	2.17	0.44
41:6H:318:ASP:O	41:6H:319:MET:HE2	2.18	0.44
41:6H:366:ASP:C	41:6H:367:ARG:HD3	2.43	0.44
41:6H:380:ASP:OD1	41:6H:381:GLN:N	2.46	0.44
41:6H:382:PHE:HZ	45:FK:363:VAL:HG23	1.83	0.44
10:6Q:58:TYR:HB2	10:6Q:155:GLN:OE1	2.18	0.44
34:6R:469:LYS:N	46:EN:77:ARG:HH21	2.13	0.44
34:7R:456:TYR:CE2	45:EA:46:ASP:HB3	2.53	0.44
44:8R:203:ALA:O	44:8R:204:ALA:C	2.60	0.44
45:AA:99:ALA:HB3	45:AA:145:THR:HG22	2.00	0.44
45:AC:178:SER:HB2	45:AC:183:GLU:OE1	2.17	0.44
45:AC:285:GLN:HE22	45:MC:56:THR:C	2.25	0.44
45:AE:51:THR:HG22	45:AE:52:PHE:CD1	2.53	0.44
45:AE:284:GLU:HG2	45:AE:286:LEU:HD22	2.00	0.44
46:AH:11:GLN:O	46:AH:15:GLN:HG2	2.18	0.44
46:AH:238:CYS:HB2	46:AH:318:ARG:NH2	2.32	0.44
46:AH:281:TYR:OH	46:MH:83:GLN:NE2	2.48	0.44
45:AI:71:GLU:HA	45:AI:72:PRO:HD3	1.90	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AI:288:VAL:HA	45:AI:291:ILE:HG12	2.00	0.44
46:AJ:286:VAL:HG23	46:AJ:287:PRO:HD3	2.00	0.44
46:AL:31:ASP:OD2	46:AL:37:HIS:CD2	2.71	0.44
46:AL:344:TRP:CE3	46:AL:345:ILE:HG23	2.53	0.44
45:AM:71:GLU:HG2	46:AN:247:ASN:ND2	2.33	0.44
45:AM:107:HIS:ND1	45:AM:107:HIS:O	2.51	0.44
45:BA:10:GLY:O	45:BA:13:GLY:N	2.51	0.44
46:BD:164:MET:O	46:BD:197:ASP:HB3	2.17	0.44
46:BD:347:ASN:HD22	46:BD:347:ASN:C	2.25	0.44
45:BE:102:ASN:HB3	45:BE:105:ARG:HB2	1.99	0.44
46:BF:204:ASN:OD1	49:BF:501:GDP:O2'	2.34	0.44
46:BF:213:ARG:O	46:BF:216:LYS:HG2	2.17	0.44
45:BM:239:THR:HG23	45:BM:243:ARG:NH1	2.32	0.44
45:CA:66:VAL:HG11	45:CA:122:ILE:HD11	2.00	0.44
46:CB:213:ARG:HG2	46:CB:214:THR:N	2.32	0.44
46:CB:380:ARG:HG3	46:CB:381:VAL:N	2.32	0.44
45:CI:393:HIS:O	45:CI:397:LEU:HD23	2.17	0.44
46:CJ:347:ASN:OD1	45:CK:178:SER:OG	2.22	0.44
45:CK:216:ASN:HB3	45:CK:275:ILE:O	2.18	0.44
46:CL:101:TRP:CE3	46:CL:403:MET:HE1	2.53	0.44
45:CM:338:LYS:NZ	45:CM:340:THR:HG1	2.15	0.44
46:DD:290:THR:O	46:DD:293:MET:HB3	2.16	0.44
46:DH:70:PRO:HA	46:DH:73:MET:SD	2.58	0.44
46:DH:284:LEU:HD12	46:DH:363:MET:HB2	1.99	0.44
46:DJ:25:SER:OG	46:DJ:30:ILE:O	2.35	0.44
46:DJ:73:MET:CE	46:DJ:92:PHE:HB3	2.48	0.44
46:DJ:260:PHE:HB2	46:DJ:263:LEU:HD13	2.00	0.44
46:DL:99:ASN:HA	46:DL:142:GLY:H	1.82	0.44
45:EC:224:TYR:HD1	45:EC:227:LEU:HD12	1.83	0.44
45:EE:51:THR:HG22	45:EE:52:PHE:CD1	2.53	0.44
45:EE:88:HIS:HB3	45:EE:91:GLN:CG	2.48	0.44
45:EE:121:ARG:HD2	45:EE:121:ARG:HA	1.75	0.44
45:EE:324:VAL:O	45:EE:328:VAL:HG23	2.18	0.44
45:EE:326:LYS:HA	45:EE:326:LYS:HD3	1.78	0.44
46:EF:200:MET:HE3	46:EF:268:ILE:HD13	2.00	0.44
46:EH:213:ARG:NE	46:EH:297:LYS:NZ	2.66	0.44
45:EK:262:TYR:OH	46:EL:391:ARG:O	2.32	0.44
46:EL:217:LEU:HD23	46:EL:220:PRO:HA	2.00	0.44
46:EL:409:THR:O	46:EL:412:GLU:HG3	2.17	0.44
45:EM:311:LYS:H	45:EM:382:THR:HG1	1.58	0.44
46:EN:312:THR:HG22	46:EN:370:ASN:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FA:100:ALA:HB1	46:FB:252:LYS:HA	1.99	0.44
45:FA:293:ASN:O	45:FA:297:GLU:HG2	2.18	0.44
46:FB:318:ARG:O	46:FB:363:MET:HA	2.17	0.44
45:FC:21:TRP:CZ2	45:FC:65:ALA:HB2	2.52	0.44
46:FF:237:THR:HG23	46:FF:241:ARG:HH11	1.81	0.44
46:FH:9:GLY:HA2	46:FH:66:MET:O	2.17	0.44
45:FI:118:CYS:O	45:FI:122:ILE:HG12	2.18	0.44
45:FI:183:GLU:N	45:FI:184:PRO:HD2	2.32	0.44
46:FJ:342:VAL:HG13	46:FJ:345:ILE:HG22	2.00	0.44
45:FK:90:GLU:HG3	45:FK:121:ARG:NH1	2.19	0.44
45:FK:419:SER:O	45:FK:422:ARG:N	2.51	0.44
45:GE:251:ASP:HB2	45:GE:253:THR:HG22	2.00	0.44
46:GF:347:ASN:HD22	46:GF:347:ASN:C	2.25	0.44
45:GG:147:SER:HB2	45:GG:190:SER:HB3	1.99	0.44
45:GG:200:VAL:HG13	45:GG:268:MET:CE	2.48	0.44
46:GH:282:ARG:NE	46:GH:288:GLU:OE1	2.50	0.44
46:GJ:391:ARG:HD2	46:GJ:391:ARG:HA	1.79	0.44
45:GK:220:GLU:C	45:GK:221:ARG:HD2	2.43	0.44
45:GM:102:ASN:HB3	45:GM:105:ARG:HB2	1.98	0.44
46:HB:350:LYS:HZ2	46:HB:351:SER:C	2.26	0.44
45:HC:231:ILE:O	45:HC:235:ILE:HG12	2.18	0.44
46:HF:109:GLY:HA2	46:HF:147:MET:CE	2.47	0.44
45:HI:387:VAL:HG12	45:HI:390:ARG:NH1	2.32	0.44
45:HK:286:LEU:HA	45:HK:290:GLU:OE2	2.18	0.44
45:HM:167:LEU:HG	45:HM:200:VAL:HB	2.00	0.44
46:HN:217:LEU:HB2	46:HN:220:PRO:HG3	2.00	0.44
46:HN:269:GLY:HA2	46:HN:300:MET:HE1	2.00	0.44
45:IA:297:GLU:HG3	45:IA:299:ALA:H	1.83	0.44
45:IC:210:TYR:CE1	45:IC:227:LEU:HD21	2.52	0.44
46:ID:117:LEU:HD13	46:ID:121:ARG:HH22	1.82	0.44
45:IE:88:HIS:HA	46:JF:281:TYR:CD1	2.53	0.44
45:IE:227:LEU:O	45:IE:231:ILE:HG12	2.18	0.44
45:IG:217:LEU:HD23	45:IG:217:LEU:HA	1.84	0.44
46:IH:134:GLN:HA	46:IH:165:GLU:HB3	1.99	0.44
46:IJ:3:GLU:OE2	46:IJ:128:ASP:N	2.50	0.44
45:IK:254:GLU:CD	46:IN:98:GLY:HA3	2.43	0.44
46:IL:12:CYS:O	46:IL:16:ILE:HG12	2.18	0.44
45:IM:331:SER:O	45:IM:335:ILE:HG12	2.18	0.44
45:JE:31:GLN:NE2	45:JE:37:PRO:HG3	2.27	0.44
46:JH:115:SER:O	46:JH:119:VAL:HG23	2.18	0.44
46:JH:163:ILE:HD11	46:JH:251:ARG:HE	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JH:317:PHE:HB3	46:JH:321:MET:CE	2.47	0.44
46:JJ:238:CYS:HB2	46:JJ:318:ARG:HE	1.82	0.44
45:JK:88:HIS:HB3	45:JK:91:GLN:HG2	2.00	0.44
45:JM:393:HIS:O	45:JM:397:LEU:HD23	2.17	0.44
46:JN:66:MET:HE3	46:JN:147:MET:HE2	1.98	0.44
46:KB:11:GLN:C	46:KB:15:GLN:HE21	2.26	0.44
45:KE:269:LEU:HD12	45:KE:303:ALA:HB3	1.98	0.44
45:KG:227:LEU:O	45:KG:231:ILE:HG12	2.18	0.44
45:KI:75:ILE:O	45:KI:79:ARG:HG3	2.18	0.44
46:KJ:150:LEU:O	46:KJ:154:LYS:HG2	2.17	0.44
46:KL:183:TYR:HB3	46:KL:398:TYR:HE2	1.82	0.44
45:KM:372:MET:SD	45:KM:372:MET:N	2.91	0.44
46:KN:19:LYS:NZ	46:KN:227:HIS:HB2	2.32	0.44
45:LA:260:VAL:O	45:LA:260:VAL:HG13	2.18	0.44
45:LA:328:VAL:O	45:LA:332:ILE:HG12	2.18	0.44
46:LD:109:GLY:HA2	46:LD:147:MET:HE2	2.00	0.44
45:LE:107:HIS:ND1	45:LE:107:HIS:O	2.51	0.44
46:LF:206:ALA:O	46:LF:210:ILE:HG12	2.18	0.44
46:LF:374:ILE:HG22	46:LF:422:TYR:CZ	2.53	0.44
46:LF:380:ARG:O	46:LF:384:GLN:HG2	2.18	0.44
46:LH:167:PHE:CZ	46:LH:233:MET:HG3	2.53	0.44
45:LK:207:GLU:HA	45:LK:210:TYR:CD2	2.49	0.44
45:LM:112:LYS:HA	45:LM:115:VAL:HG22	2.00	0.44
46:MB:167:PHE:CZ	46:MB:233:MET:HG3	2.53	0.44
46:MD:297:LYS:HA	46:MD:297:LYS:HD3	1.68	0.44
46:MD:396:HIS:HA	46:MD:399:THR:OG1	2.17	0.44
45:ME:213:CYS:HA	45:ME:217:LEU:HD23	2.00	0.44
46:MF:113:ILE:HA	46:MF:116:VAL:HG12	1.99	0.44
45:MG:223:THR:HG23	45:MG:225:THR:H	1.82	0.44
46:MH:116:VAL:HA	46:MH:119:VAL:HG12	2.00	0.44
45:MI:104:ALA:HB2	45:MI:413:MET:HE2	2.00	0.44
45:MM:220:GLU:O	45:MM:221:ARG:HD2	2.18	0.44
45:NA:11:GLN:HG2	45:NA:15:GLN:HE22	1.82	0.44
45:NA:333:ALA:O	45:NA:337:THR:HG23	2.18	0.44
45:NC:75:ILE:HG23	45:NC:92:LEU:HB3	1.99	0.44
45:NE:431:ASP:O	45:NE:435:VAL:HG23	2.17	0.44
45:NG:116:ASP:OD1	45:NG:116:ASP:N	2.50	0.44
46:NH:174:LYS:HB2	46:NH:205:GLU:OE2	2.18	0.44
46:NJ:207:LEU:HB3	46:NJ:225:LEU:HD22	2.00	0.44
45:NK:279:GLU:HG2	45:NK:280:LYS:N	2.22	0.44
45:NM:107:HIS:O	45:NM:107:HIS:ND1	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NM:215:ARG:NH2	45:NM:300:ASN:HD21	2.16	0.44
45:NM:422:ARG:HD2	45:NM:422:ARG:HA	1.86	0.44
45:OA:87:PHE:HB3	45:OA:91:GLN:NE2	2.33	0.44
45:OA:89:PRO:HD2	45:PA:280:LYS:HE2	2.00	0.44
45:OC:326:LYS:HE3	46:OF:208:TYR:CE1	2.52	0.44
46:OD:52:ASN:ND2	46:OD:62:ARG:HB3	2.33	0.44
46:OD:117:LEU:HA	46:OD:120:VAL:HG12	1.99	0.44
46:OD:184:ASN:OD1	46:OD:185:ALA:N	2.51	0.44
46:OD:230:SER:HA	46:OD:233:MET:HE2	1.99	0.44
45:OE:69:ASP:OD1	45:OE:70:LEU:N	2.49	0.44
45:OE:111:GLY:O	45:OE:115:VAL:HG13	2.17	0.44
45:OG:101:ASN:HA	45:OG:144:GLY:H	1.83	0.44
45:PA:141:VAL:HG11	45:PA:172:TYR:CD1	2.50	0.44
45:PA:148:GLY:O	45:PA:152:LEU:HD23	2.18	0.44
45:PA:208:ALA:O	45:PA:212:ILE:HG12	2.18	0.44
45:PA:213:CYS:SG	45:PA:219:ILE:HB	2.58	0.44
45:PC:97:GLU:HB2	45:PC:110:ILE:HD13	2.00	0.44
46:PD:102:ALA:H	46:PD:398:TYR:HE1	1.66	0.44
46:PD:183:TYR:O	46:PD:187:LEU:HG	2.17	0.44
45:PE:175:PRO:HA	45:PE:390:ARG:CZ	2.48	0.44
45:PE:258:ASN:HD21	45:PE:352:LYS:HE3	1.83	0.44
45:PG:256:GLN:NE2	45:PG:257:THR:HG23	2.33	0.44
46:PH:3:GLU:OE2	46:PH:127:CYS:HB2	2.17	0.44
45:PI:398:MET:HE1	46:PJ:345:ILE:HA	2.00	0.44
46:PJ:46:ARG:HD3	46:PJ:46:ARG:HA	1.76	0.44
45:PK:84:ARG:HD2	45:PK:85:GLN:HE22	1.83	0.44
45:PK:100:ALA:HA	46:PL:252:LYS:HG2	2.00	0.44
45:PK:210:TYR:CE2	46:PL:324:LYS:HG3	2.53	0.44
46:PL:21:TRP:CZ3	46:PL:61:PRO:HB3	2.53	0.44
46:PL:372:THR:HA	46:PL:422:TYR:CE2	2.53	0.44
45:PM:387:VAL:O	45:PM:390:ARG:HG3	2.18	0.44
45:QA:308:ARG:HA	45:QA:308:ARG:CZ	2.48	0.44
45:QC:259:LEU:HB3	45:QC:268:MET:SD	2.58	0.44
46:QD:239:CYS:SG	46:QD:354:CYS:HB2	2.58	0.44
46:QF:347:ASN:HB3	45:QG:394:LYS:HZ3	1.83	0.44
46:QF:375:GLN:NE2	46:QF:379:LYS:HE2	2.32	0.44
45:QG:434:GLU:O	45:QG:437:ILE:HG12	2.18	0.44
46:QH:2:ARG:HB2	46:QH:240:LEU:HD21	1.99	0.44
46:QN:318:ARG:HH11	46:QN:358:PRO:HG3	1.82	0.44
45:RA:387:VAL:HA	45:RA:390:ARG:HG2	1.98	0.44
46:RB:138:SER:HA	46:RB:169:VAL:HG22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RB:311:LEU:N	46:RB:370:ASN:O	2.50	0.44
45:RC:5:ILE:HD12	45:RC:125:LEU:HD13	2.00	0.44
45:RC:226:ASN:ND2	45:RC:367:ASP:OD2	2.51	0.44
45:RE:171:ILE:HG22	45:RE:204:LEU:HB2	2.00	0.44
46:RH:73:MET:CE	46:RH:92:PHE:HB3	2.48	0.44
46:RH:103:LYS:HD3	46:RH:108:GLU:OE2	2.18	0.44
46:RJ:226:ASN:HA	46:RJ:229:VAL:HG22	2.00	0.44
46:RL:309:ARG:HB2	46:RL:309:ARG:HH11	1.83	0.44
45:RM:331:SER:O	45:RM:335:ILE:HG12	2.18	0.44
45:RM:353:VAL:HG12	46:RN:177:ASP:HA	1.99	0.44
45:SC:261:PRO:HA	46:SD:394:PHE:CE1	2.52	0.44
46:SD:258:ILE:HG13	45:SE:407:TRP:CZ2	2.52	0.44
45:SE:277:SER:O	45:SE:281:ALA:N	2.51	0.44
45:SE:434:GLU:O	45:SE:437:ILE:HG22	2.17	0.44
46:SF:4:ILE:HG23	46:SF:131:GLN:HB3	2.00	0.44
46:SF:55:THR:HG23	46:TF:283:ALA:HA	1.99	0.44
46:SF:114:ASP:OD1	46:SF:115:SER:N	2.49	0.44
45:SG:254:GLU:OE2	45:SG:257:THR:OG1	2.32	0.44
45:SG:319:TYR:HB3	45:SG:323:VAL:HG11	2.00	0.44
46:SH:70:PRO:HA	46:SH:73:MET:HE2	1.99	0.44
46:SJ:230:SER:HA	46:SJ:233:MET:HE3	2.00	0.44
45:SK:428:LEU:HG	45:SK:432:TYR:CE2	2.53	0.44
46:SL:9:GLY:CA	46:SL:66:MET:HB2	2.48	0.44
46:SL:103:LYS:O	46:SL:108:GLU:HG2	2.17	0.44
45:SM:91:GLN:HB3	45:SM:121:ARG:NE	2.33	0.44
45:SM:207:GLU:HB3	45:SM:304:LYS:NZ	2.32	0.44
45:SM:385:ALA:HA	45:SM:388:PHE:HD1	1.83	0.44
45:SM:402:ARG:HH11	45:SM:402:ARG:HA	1.83	0.44
46:TB:15:GLN:OE1	46:TB:226:ASN:ND2	2.51	0.44
46:TB:190:HIS:ND1	46:TB:411:ALA:HA	2.33	0.44
45:TE:70:LEU:HD11	45:TE:149:LEU:HD11	1.99	0.44
46:TH:303:ALA:HA	46:TH:376:GLU:OE2	2.18	0.44
46:TH:383:GLU:HA	46:TH:386:THR:HG22	1.99	0.44
46:TJ:164:MET:H	46:TJ:197:ASP:HB2	1.81	0.44
46:TJ:379:LYS:O	46:TJ:383:GLU:OE1	2.35	0.44
45:TM:387:VAL:HA	45:TM:390:ARG:HG2	1.99	0.44
46:TN:167:PHE:CE2	46:TN:233:MET:HG2	2.53	0.44
46:TN:273:LEU:N	46:TN:292:GLN:HE22	2.13	0.44
46:UD:116:VAL:HA	46:UD:119:VAL:HG12	2.00	0.44
46:UD:175:VAL:O	46:UD:175:VAL:HG23	2.17	0.44
46:UD:396:HIS:HA	46:UD:399:THR:OG1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UF:119:VAL:O	46:UF:123:GLU:OE1	2.36	0.44
45:UG:88:HIS:CD2	45:VE:280:LYS:HE3	2.53	0.44
45:UG:174:SER:HB2	45:UG:177:VAL:HB	2.00	0.44
46:UH:54:ALA:HB3	46:UH:58:ARG:HG2	2.00	0.44
46:UH:203:ASP:HB3	46:UH:205:GLU:OE1	2.18	0.44
46:UH:383:GLU:O	46:UH:386:THR:HG22	2.18	0.44
45:UI:21:TRP:CZ2	45:UI:65:ALA:HB2	2.52	0.44
45:UK:322:ASP:OD1	45:UK:373:ARG:NH1	2.48	0.44
46:UL:11:GLN:O	46:UL:15:GLN:HG2	2.18	0.44
46:UL:86:ARG:HE	46:UL:87:PRO:CD	2.29	0.44
46:UL:114:ASP:O	46:UL:117:LEU:HG	2.18	0.44
46:UL:137:HIS:O	46:UL:168:SER:HA	2.17	0.44
46:UL:199:CYS:HB3	46:UL:265:PHE:HD2	1.83	0.44
46:UL:372:THR:HA	46:UL:422:TYR:CE2	2.47	0.44
46:UN:65:LEU:H	46:UN:85:PHE:HZ	1.64	0.44
46:VB:20:PHE:O	46:VB:24:ILE:HG12	2.17	0.44
46:VB:143:THR:OG1	46:VB:147:MET:HE2	2.17	0.44
46:VD:77:ARG:HD3	46:VD:90:PHE:CZ	2.53	0.44
46:VF:200:MET:HG2	46:VF:268:ILE:HG23	2.00	0.44
46:VF:266:PHE:CE1	46:VF:370:ASN:HB2	2.52	0.44
45:VG:75:ILE:HD12	45:VG:94:SER:HB2	1.99	0.44
45:VG:326:LYS:HG3	45:VG:327:ASP:N	2.33	0.44
46:VL:279:GLN:H	46:VL:279:GLN:CD	2.25	0.44
46:VL:391:ARG:HA	46:VL:391:ARG:HD2	1.77	0.44
46:VN:68:LEU:HD13	46:VN:108:GLU:OE1	2.17	0.44
45:WA:183:GLU:N	45:WA:184:PRO:HD2	2.33	0.44
46:WB:213:ARG:O	46:WB:216:LYS:HE3	2.18	0.44
45:WC:124:LYS:HA	45:WC:127:ASP:OD2	2.18	0.44
45:WC:164:LYS:HD2	45:WC:164:LYS:HA	1.90	0.44
46:WD:248:SER:HA	46:WD:252:LYS:HD2	1.99	0.44
46:WD:325:GLU:HA	46:WD:328:GLU:CG	2.45	0.44
46:WF:138:SER:HA	46:WF:169:VAL:HG22	2.00	0.44
46:WF:406:MET:O	46:WF:410:GLU:HG2	2.18	0.44
46:WJ:217:LEU:HD11	46:WJ:220:PRO:HB3	1.99	0.44
45:WK:372:MET:O	45:WK:373:ARG:HD3	2.18	0.44
45:WM:288:VAL:HA	45:WM:291:ILE:HG12	2.00	0.44
46:WN:208:TYR:CZ	46:WN:225:LEU:HD11	2.53	0.44
46:WN:417:ASP:O	46:WN:420:SER:N	2.51	0.44
45:DC:340:THR:HG23	45:DC:341:ILE:HG13	1.99	0.44
4:0D:180:ARG:HG2	4:0D:184:ALA:HB2	2.00	0.44
9:0N:24:GLU:CG	45:IM:84:ARG:HH21	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:0U:117:LEU:HD23	13:0U:118:ALA:N	2.33	0.44
14:0V:5:SER:HA	13:3U:374:GLY:O	2.18	0.44
16:1B:327:LYS:HE3	16:1B:328:GLN:NE2	2.33	0.44
4:1D:171:LEU:HD23	4:1D:171:LEU:H	1.83	0.44
17:1F:20:TYR:CE2	46:HL:40:SER:HB3	2.53	0.44
17:1F:144:TYR:CE1	46:GL:77:ARG:HG2	2.52	0.44
21:1L:36:LYS:HA	21:1L:105:ILE:HD11	2.00	0.44
21:1L:36:LYS:HA	21:1L:39:VAL:HG12	1.99	0.44
21:1L:43:GLN:OE1	46:BJ:357:PRO:HG2	2.17	0.44
24:1P:302:LYS:NZ	46:TD:362:LYS:HG2	2.32	0.44
24:1P:362:LYS:HD3	46:TB:359:LYS:HA	1.99	0.44
25:1R:152:LEU:HA	46:AF:78:ALA:O	2.18	0.44
11:1S:138:TYR:CE1	11:1S:145:ILE:HD11	2.53	0.44
12:1T:1:MET:SD	12:1T:5:SER:OG	2.66	0.44
13:1U:247:LEU:HD13	13:1U:251:ASP:HB2	1.99	0.44
14:1V:9:LEU:HD22	13:2U:392:GLN:HE22	1.83	0.44
16:2B:86:VAL:HA	16:2B:89:ILE:HG12	2.00	0.44
4:2D:99:ARG:NH1	45:EK:364:PRO:HA	2.32	0.44
5:2E:129:HIS:NE2	5:2E:131:LYS:HE3	2.33	0.44
20:2K:245:TRP:O	20:2K:249:GLU:HG2	2.18	0.44
21:2L:542:ILE:HG12	21:2L:581:TRP:CD1	2.53	0.44
22:2M:138:HIS:HA	22:2M:141:LYS:HE2	1.99	0.44
23:2O:138:ASP:O	23:2O:141:LYS:NZ	2.51	0.44
25:2R:180:PHE:HB2	25:2R:185:PHE:HE2	1.83	0.44
25:2R:289:ASN:OD1	46:DH:217:LEU:HD13	2.17	0.44
11:2S:140:ARG:NH1	10:3Q:72:LYS:HD2	2.33	0.44
12:2T:62:VAL:HA	12:2T:146:MET:HB2	1.99	0.44
13:2U:143:ALA:HB2	13:2U:182:VAL:HG11	2.00	0.44
14:2V:6:ILE:HD12	14:2V:6:ILE:H	1.82	0.44
14:2V:73:ARG:HG2	46:LF:121:ARG:NH1	2.31	0.44
26:2W:215:HIS:HD2	26:2W:218:GLU:OE2	2.01	0.44
15:2X:14:ASP:OD1	15:2X:15:TRP:N	2.50	0.44
15:2X:97:GLN:O	15:2X:101:GLU:HG2	2.18	0.44
16:3B:26:LEU:HD23	16:3B:29:LEU:HD23	2.00	0.44
5:3E:183:GLN:NE2	5:3E:184:VAL:HG23	2.31	0.44
21:3L:86:ILE:O	21:3L:90:LYS:HG3	2.18	0.44
23:3O:279:VAL:HG12	23:3O:283:LYS:NZ	2.32	0.44
23:3O:394:GLU:O	23:3O:398:ILE:HD12	2.18	0.44
25:3R:92:TRP:CG	45:AK:372:MET:HE2	2.53	0.44
12:3T:53:ARG:O	12:3T:57:LEU:HD23	2.17	0.44
13:3U:3:LYS:HB2	13:3U:569:TYR:HA	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:3U:543:LYS:H	13:3U:587:GLN:HE22	1.66	0.44
27:4C:90:ALA:O	27:4C:93:SER:OG	2.34	0.44
35:4S:65:PHE:HE1	35:4S:74:LEU:HD21	1.83	0.44
35:4S:209:ARG:HH21	46:WD:119:VAL:CG1	2.14	0.44
36:5A:44:SER:N	36:5A:56:ILE:O	2.40	0.44
36:5C:102:TYR:HA	45:KI:393:HIS:CE1	2.53	0.44
37:5F:44:ARG:NH2	45:OC:285:GLN:HG2	2.33	0.44
37:5F:104:MET:HG3	37:5F:105:LYS:N	2.33	0.44
37:5F:147:GLN:O	37:5F:150:ILE:HG22	2.18	0.44
37:5H:54:LYS:HA	46:ON:227:HIS:CE1	2.53	0.44
34:5R:107:PRO:HA	46:BL:360:GLY:HA3	1.99	0.44
34:5R:380:ARG:HG3	34:5R:380:ARG:O	2.17	0.44
40:6G:268:VAL:HG12	40:6G:270:THR:N	2.27	0.44
40:6G:272:LYS:HB3	40:6G:274:ASN:ND2	2.33	0.44
41:6H:174:MET:N	41:6H:174:MET:SD	2.91	0.44
34:6R:470:PHE:O	46:EN:78:ALA:HA	2.18	0.44
34:7R:50:ASP:OD1	34:7R:51:PRO:HD2	2.18	0.44
34:7R:578:TYR:HE2	34:7R:580:LEU:HD13	1.82	0.44
45:AE:147:SER:HB2	45:AE:190:SER:HB3	2.00	0.44
46:AF:303:ALA:HA	46:AF:376:GLU:OE2	2.17	0.44
45:AG:107:HIS:ND1	45:AG:107:HIS:O	2.51	0.44
45:AG:304:LYS:HB2	45:AG:304:LYS:HE2	1.78	0.44
45:AG:401:LYS:HB2	45:AG:401:LYS:HE3	1.87	0.44
45:AK:97:GLU:HA	45:AK:97:GLU:OE1	2.18	0.44
46:AL:87:PRO:HA	46:AL:90:PHE:HD2	1.83	0.44
45:AM:101:ASN:HD22	46:AN:252:LYS:HD2	1.83	0.44
45:AM:221:ARG:HH21	46:AN:321:MET:HA	1.83	0.44
46:AN:164:MET:HE3	46:AN:164:MET:HB3	1.75	0.44
46:BB:38:GLY:HA3	46:BB:43:GLN:NE2	2.33	0.44
46:BB:49:VAL:HG12	46:BB:50:TYR:CD1	2.53	0.44
46:BB:65:LEU:HD22	46:BB:90:PHE:CE1	2.53	0.44
46:BB:267:MET:SD	46:BB:299:MET:HB3	2.58	0.44
45:BC:288:VAL:HA	45:BC:291:ILE:HG12	1.98	0.44
46:BD:257:LEU:HD11	46:BD:314:SER:HB2	2.00	0.44
45:BG:31:GLN:N	45:BG:31:GLN:OE1	2.50	0.44
45:BK:19:ALA:HA	45:BK:22:GLU:OE1	2.17	0.44
45:BK:339:ARG:NE	45:BK:339:ARG:HA	2.33	0.44
46:BL:175:VAL:HG22	46:BL:205:GLU:OE2	2.18	0.44
46:BL:268:ILE:HG22	46:BL:368:VAL:HG22	1.98	0.44
46:CB:322:SER:O	45:CC:221:ARG:NH2	2.50	0.44
45:CM:192:HIS:ND1	45:CM:424:ASP:OD2	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CN:9:GLY:HA2	46:CN:66:MET:O	2.18	0.44
46:CN:208:TYR:CE1	46:CN:225:LEU:HD11	2.52	0.44
46:DB:135:ILE:HG23	46:DB:166:THR:HG23	2.00	0.44
46:DB:167:PHE:HD2	46:DB:200:MET:HB2	1.83	0.44
46:DB:362:LYS:HE2	46:DB:362:LYS:HB3	1.69	0.44
46:DD:11:GLN:NE2	49:DD:501:GDP:O1A	2.32	0.44
45:DE:434:GLU:HA	45:DE:434:GLU:OE2	2.18	0.44
46:DF:11:GLN:HB3	46:DF:72:THR:HG21	1.98	0.44
46:DF:113:ILE:HA	46:DF:116:VAL:HG12	2.00	0.44
46:DF:281:TYR:CD1	46:DF:281:TYR:CB	2.84	0.44
46:DF:324:LYS:O	46:DF:328:GLU:HG2	2.17	0.44
46:DJ:254:ALA:O	46:DJ:258:ILE:HG12	2.17	0.44
46:DJ:406:MET:O	46:DJ:410:GLU:HG2	2.17	0.44
45:DK:127:ASP:OD1	45:DK:128:ASN:N	2.51	0.44
45:DK:329:ASN:HA	45:DK:332:ILE:HG12	2.00	0.44
46:DL:390:ARG:O	46:DL:392:LYS:NZ	2.51	0.44
45:DM:210:TYR:CE1	45:DM:227:LEU:HD11	2.45	0.44
45:EA:331:SER:O	45:EA:335:ILE:HG12	2.18	0.44
45:EC:82:THR:HG23	45:EC:83:TYR:CD1	2.52	0.44
45:EE:37:PRO:HB2	45:EE:39:ASP:H	1.82	0.44
46:EF:408:PHE:O	46:EF:412:GLU:OE1	2.35	0.44
45:EG:141:VAL:HG12	45:EG:171:ILE:O	2.18	0.44
45:EI:124:LYS:HE2	45:EI:124:LYS:HB2	1.81	0.44
46:EJ:69:GLU:HA	46:EJ:70:PRO:HD3	1.87	0.44
45:EK:429:GLU:O	45:EK:433:GLU:OE1	2.35	0.44
45:EM:52:PHE:CZ	45:EM:239:THR:HG21	2.53	0.44
45:EM:217:LEU:HD22	45:EM:367:ASP:HB3	1.98	0.44
46:EN:391:ARG:HD2	46:EN:391:ARG:HA	1.79	0.44
46:FB:257:LEU:HD11	46:FB:314:SER:HB2	1.99	0.44
46:FD:11:GLN:O	46:FD:15:GLN:HG2	2.18	0.44
46:FF:163:ILE:HD11	46:FF:251:ARG:HB2	1.99	0.44
46:FH:267:MET:HG3	46:FH:299:MET:HE3	2.00	0.44
46:FJ:100:ASN:HD22	46:FJ:398:TYR:HE1	1.65	0.44
46:FN:226:ASN:HA	46:FN:229:VAL:HG12	1.99	0.44
45:GA:21:TRP:HZ2	45:GA:65:ALA:HB2	1.83	0.44
46:GF:7:ILE:HD12	46:GF:64:ILE:HB	1.99	0.44
46:GH:269:GLY:HA2	46:GH:300:MET:HE2	1.99	0.44
46:GJ:309:ARG:H	46:GJ:372:THR:HG22	1.83	0.44
45:GK:209:ILE:CG2	45:GK:227:LEU:HD22	2.48	0.44
45:GK:377:MET:HE2	45:GK:377:MET:HB3	1.73	0.44
46:GL:67:ASP:OD1	46:GL:68:LEU:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GM:387:VAL:HA	45:GM:390:ARG:HG2	2.00	0.44
46:GN:20:PHE:O	46:GN:24:ILE:HG12	2.17	0.44
45:HA:261:PRO:HA	46:HD:394:PHE:CD2	2.53	0.44
46:HB:10:GLY:O	46:HB:14:ASN:ND2	2.51	0.44
45:HC:21:TRP:CZ2	45:HC:65:ALA:HB2	2.53	0.44
46:HD:28:HIS:C	46:HD:43:GLN:HE21	2.26	0.44
46:HD:149:THR:HG21	46:HD:191:GLN:HE21	1.83	0.44
46:HD:226:ASN:HD21	49:HD:501:GDP:HN1	1.65	0.44
46:HF:257:LEU:HA	46:HF:312:THR:HG21	2.00	0.44
45:HG:9:VAL:HG13	45:HG:139:ASN:HB3	2.00	0.44
45:HG:88:HIS:ND1	45:HG:89:PRO:HD2	2.33	0.44
45:HG:152:LEU:O	45:HG:155:GLU:HG3	2.18	0.44
46:HH:39:ASP:OD1	46:HH:40:SER:N	2.50	0.44
46:HH:316:LEU:HB2	46:HH:366:THR:HG22	1.99	0.44
45:HI:260:VAL:HG23	45:HI:265:ILE:O	2.18	0.44
45:HI:274:PRO:HG3	45:HI:286:LEU:HD12	1.99	0.44
45:HI:387:VAL:O	45:HI:391:LEU:HD23	2.18	0.44
45:HK:268:MET:HG3	45:HK:380:ASN:HB2	2.00	0.44
46:HL:1:MET:O	46:HL:2:ARG:HG2	2.18	0.44
46:HL:45:GLU:HG3	46:HL:46:ARG:HG2	1.99	0.44
45:IC:384:ILE:O	45:IC:387:VAL:HG22	2.18	0.44
45:IE:11:GLN:NE2	47:IE:501:GTP:O3A	2.50	0.44
46:IF:345:ILE:HG23	46:IF:345:ILE:O	2.18	0.44
45:IG:358:GLN:OE1	45:IG:358:GLN:HA	2.18	0.44
46:IH:396:HIS:CD2	46:IH:397:TRP:HD1	2.36	0.44
46:IL:52:ASN:OD1	46:IL:62:ARG:NH2	2.50	0.44
46:IL:289:LEU:HD23	46:IL:365:VAL:HG23	1.98	0.44
46:IN:97:ALA:HB3	46:IN:143:THR:HB	2.00	0.44
45:JA:216:ASN:HD22	45:JA:275:ILE:HB	1.82	0.44
45:JA:350:GLY:HA2	46:JD:179:VAL:HG12	1.99	0.44
46:JD:148:GLY:O	46:JD:152:ILE:HG13	2.17	0.44
46:JD:207:LEU:HD13	46:JD:225:LEU:HB3	1.98	0.44
46:JF:3:GLU:HG3	46:JF:49:VAL:HA	2.00	0.44
45:JG:422:ARG:NH1	45:JG:422:ARG:O	2.51	0.44
45:JK:28:HIS:HE1	45:JK:243:ARG:HH11	1.66	0.44
45:JK:163:LYS:HE2	45:JK:163:LYS:HA	1.99	0.44
45:JM:276:ILE:HD11	45:JM:280:LYS:HG3	2.00	0.44
45:KA:398:MET:HE3	45:KA:403:ALA:HB3	2.00	0.44
45:KE:306:ASP:HB3	45:KE:309:HIS:ND1	2.32	0.44
46:KF:19:LYS:HE2	46:KF:19:LYS:HB3	1.77	0.44
46:KF:116:VAL:HA	46:KF:119:VAL:HG12	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KF:251:ARG:O	46:KF:255:VAL:HG23	2.18	0.44
45:KG:352:LYS:NZ	46:KJ:178:THR:HG22	2.33	0.44
45:KI:258:ASN:HD22	45:KI:352:LYS:HD3	1.83	0.44
46:KN:33:THR:O	46:KN:58:ARG:NH1	2.51	0.44
45:LA:209:ILE:HD12	45:LA:227:LEU:HD22	2.00	0.44
45:LA:407:TRP:CZ3	46:LB:255:VAL:HA	2.52	0.44
45:LC:220:GLU:H	45:LC:220:GLU:CD	2.26	0.44
46:LF:139:LEU:HD22	46:LF:188:SER:CB	2.47	0.44
45:LG:345:ASP:OD1	45:LG:345:ASP:N	2.50	0.44
45:LG:384:ILE:O	45:LG:387:VAL:HG22	2.18	0.44
46:LH:66:MET:HA	46:LH:91:VAL:HG23	2.00	0.44
46:LH:116:VAL:HA	46:LH:119:VAL:HG22	1.99	0.44
45:LI:30:ILE:HD12	45:LI:36:MET:HA	1.98	0.44
46:LL:298:ASN:O	46:LL:298:ASN:ND2	2.51	0.44
45:LM:223:THR:HG22	45:LM:224:TYR:N	2.33	0.44
45:MA:224:TYR:HD1	45:MA:227:LEU:HD12	1.82	0.44
45:MA:387:VAL:HA	45:MA:390:ARG:HG2	2.00	0.44
46:MB:238:CYS:SG	46:MB:239:CYS:N	2.91	0.44
45:MC:107:HIS:ND1	45:MC:107:HIS:O	2.51	0.44
46:MD:7:ILE:CD1	46:MD:64:ILE:HB	2.48	0.44
45:ME:98:ASP:OD1	45:ME:99:ALA:N	2.51	0.44
46:MF:254:ALA:O	46:MF:258:ILE:HG12	2.18	0.44
45:MG:384:ILE:O	45:MG:387:VAL:HG22	2.18	0.44
46:MH:114:ASP:OD1	46:MH:115:SER:N	2.51	0.44
46:MH:171:PRO:HB2	46:MH:181:GLU:OE1	2.18	0.44
45:MK:102:ASN:ND2	45:MK:105:ARG:HG3	2.33	0.44
46:ML:321:MET:HE2	46:ML:363:MET:HE3	1.99	0.44
45:NA:107:HIS:O	45:NA:107:HIS:ND1	2.51	0.44
46:NB:32:PRO:HB3	46:NB:81:PHE:HD1	1.82	0.44
46:NB:101:TRP:HB2	46:NB:184:ASN:HB3	2.00	0.44
45:NC:203:MET:O	45:NC:204:LEU:HD22	2.18	0.44
45:NE:408:TYR:O	45:NE:413:MET:HB3	2.17	0.44
46:NH:190:HIS:CD2	46:NH:414:ASN:HD22	2.36	0.44
46:NJ:45:GLU:OE1	46:NJ:46:ARG:HD2	2.18	0.44
46:NJ:345:ILE:HG23	46:NJ:348:ASN:ND2	2.33	0.44
46:NN:103:LYS:HA	46:NN:107:THR:HG1	1.83	0.44
45:OA:71:GLU:HA	45:OA:72:PRO:HD3	1.89	0.44
45:OE:138:PHE:CE2	45:OE:169:PHE:HD2	2.36	0.44
46:OJ:299:MET:SD	46:OJ:299:MET:N	2.91	0.44
45:OK:358:GLN:NE2	45:OK:359:PRO:O	2.51	0.44
45:OM:194:LEU:HB2	45:OM:198:THR:OG1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ON:404:ASP:N	46:ON:404:ASP:OD1	2.51	0.44
45:PA:419:SER:O	45:PA:423:GLU:OE1	2.36	0.44
46:PB:131:GLN:NE2	46:PB:251:ARG:HG2	2.32	0.44
46:PB:267:MET:HE1	46:PB:305:PRO:HB3	1.99	0.44
45:PC:343:PHE:CZ	45:PC:351:PHE:HE1	2.36	0.44
46:PD:326:VAL:O	46:PD:329:GLN:HG3	2.17	0.44
46:PD:388:MET:N	46:PD:388:MET:HE2	2.33	0.44
45:PE:263:PRO:HD3	46:PH:396:HIS:CE1	2.53	0.44
45:PE:272:TYR:HD2	45:PE:275:ILE:HD11	1.83	0.44
46:PF:139:LEU:HA	46:PF:145:SER:HB3	1.99	0.44
46:PF:267:MET:HE2	46:PF:374:ILE:HD11	2.00	0.44
45:PG:324:VAL:CG1	45:PG:326:LYS:HG2	2.47	0.44
45:PG:427:ALA:HA	45:PG:430:LYS:HG2	2.00	0.44
45:PI:180:ALA:HA	46:PJ:350:LYS:HZ2	1.83	0.44
45:PI:189:LEU:HD11	45:PI:418:PHE:HE2	1.83	0.44
46:PL:74:ASP:HA	46:PL:77:ARG:HE	1.83	0.44
46:PL:379:LYS:HE3	46:PL:379:LYS:HB3	1.83	0.44
45:PM:175:PRO:HA	45:PM:390:ARG:CZ	2.47	0.44
46:PN:6:HIS:CD2	46:PN:8:GLN:HG3	2.52	0.44
45:QA:265:ILE:HG13	45:QA:265:ILE:O	2.18	0.44
46:QB:69:GLU:HA	46:QB:70:PRO:HD3	1.85	0.44
45:QC:88:HIS:HB3	45:QC:91:GLN:HG2	1.99	0.44
46:QD:238:CYS:SG	46:QD:316:LEU:HD21	2.58	0.44
46:QH:148:GLY:O	46:QH:152:ILE:HG12	2.17	0.44
46:QJ:45:GLU:OE1	46:QJ:46:ARG:HG2	2.18	0.44
45:QK:99:ALA:HB3	45:QK:145:THR:HB	1.99	0.44
45:QK:118:CYS:O	45:QK:122:ILE:HG12	2.17	0.44
46:QL:345:ILE:O	46:QL:348:ASN:ND2	2.50	0.44
45:QM:317:MET:HE2	45:QM:319:TYR:CE1	2.53	0.44
45:QM:397:LEU:HD12	45:QM:398:MET:N	2.33	0.44
46:QN:116:VAL:HA	46:QN:119:VAL:HG12	2.00	0.44
46:RB:217:LEU:HD23	46:RB:219:THR:H	1.82	0.44
46:RF:190:HIS:CE1	46:RF:414:ASN:HD22	2.36	0.44
45:RK:184:PRO:O	45:RK:188:ILE:HG12	2.17	0.44
46:RL:66:MET:HG3	46:RL:91:VAL:CG2	2.48	0.44
46:RL:330:MET:HA	46:RL:333:VAL:HG12	1.99	0.44
46:SD:6:HIS:HE1	46:SD:8:GLN:CG	2.31	0.44
46:SD:383:GLU:HA	46:SD:386:THR:HG22	2.00	0.44
46:SF:8:GLN:OE1	46:SF:17:GLY:HA3	2.18	0.44
46:SF:164:MET:O	46:SF:197:ASP:HB2	2.18	0.44
46:SH:342:VAL:HG13	46:SH:345:ILE:HG22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SJ:136:THR:HG22	46:SJ:167:PHE:HB2	2.00	0.44
45:SK:227:LEU:H	45:SK:227:LEU:HD12	1.83	0.44
45:SK:319:TYR:HE1	45:SK:328:VAL:HG22	1.82	0.44
46:SL:311:LEU:N	46:SL:370:ASN:O	2.51	0.44
46:SL:379:LYS:HD3	46:SL:419:VAL:HG11	1.99	0.44
45:SM:115:VAL:HG23	45:SM:153:LEU:HD23	2.00	0.44
46:TB:241:ARG:HG2	46:TB:242:PHE:CD2	2.53	0.44
46:TB:253:LEU:O	46:TB:257:LEU:HB2	2.17	0.44
46:TB:342:VAL:HG13	46:TB:345:ILE:HG22	1.99	0.44
45:TC:88:HIS:CD2	45:UC:280:LYS:NZ	2.86	0.44
46:TD:321:MET:HE2	46:TD:363:MET:HE3	1.99	0.44
46:TF:69:GLU:HA	46:TF:70:PRO:HD3	1.86	0.44
46:TF:287:PRO:HA	46:TF:290:THR:HG22	2.00	0.44
45:TK:171:ILE:HG23	45:TK:204:LEU:O	2.17	0.44
46:TN:290:THR:HA	46:TN:293:MET:HE3	2.00	0.44
46:UB:5:VAL:HA	46:UB:62:ARG:HG3	1.98	0.44
46:UD:303:ALA:HB2	46:UD:377:MET:HE2	1.99	0.44
45:UG:145:THR:OG1	47:UG:501:GTP:O1B	2.36	0.44
45:UI:317:MET:HE1	45:UI:351:PHE:HD2	1.82	0.44
45:UM:319:TYR:CD2	45:UM:323:VAL:HG21	2.53	0.44
46:UN:326:VAL:O	46:UN:330:MET:HG2	2.18	0.44
45:VC:174:SER:HB2	45:VC:177:VAL:O	2.18	0.44
45:VE:220:GLU:OE2	45:VE:221:ARG:HB2	2.18	0.44
46:VF:184:ASN:OD1	46:VF:185:ALA:N	2.51	0.44
45:VG:209:ILE:HD12	45:VG:209:ILE:H	1.83	0.44
46:VH:97:ALA:HB3	46:VH:143:THR:HG22	2.00	0.44
46:VH:286:VAL:HG23	46:VH:287:PRO:HD3	2.00	0.44
45:VI:177:VAL:HG23	45:VI:207:GLU:OE1	2.18	0.44
46:VJ:3:GLU:H	46:VJ:3:GLU:CD	2.25	0.44
45:VK:230:LEU:HD11	45:VK:272:TYR:HD2	1.83	0.44
46:VL:284:LEU:HA	46:VL:288:GLU:OE2	2.17	0.44
46:VN:49:VAL:HG12	46:VN:50:TYR:CD2	2.53	0.44
46:VN:66:MET:HE1	46:VN:147:MET:HB3	2.00	0.44
46:VN:207:LEU:HD12	46:VN:228:LEU:HD11	2.00	0.44
46:WB:113:ILE:HD12	46:WB:150:LEU:CD1	2.47	0.44
46:WB:391:ARG:HD2	46:WB:391:ARG:HA	1.78	0.44
45:WC:342:GLN:N	45:WC:342:GLN:OE1	2.50	0.44
46:WD:39:ASP:OD1	46:WD:40:SER:N	2.50	0.44
45:WG:33:ASP:OD1	45:WG:35:GLN:NE2	2.41	0.44
45:WG:90:GLU:CD	45:WG:121:ARG:HH21	2.21	0.44
45:WG:205:ASP:OD1	45:WG:303:ALA:HA	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WG:231:ILE:O	45:WG:235:ILE:HG12	2.18	0.44
45:WI:10:GLY:O	45:WI:14:ILE:HG12	2.17	0.44
45:WI:88:HIS:HB3	45:WI:91:GLN:HG2	2.00	0.44
46:WJ:153:SER:HB2	46:WJ:191:GLN:HE21	1.82	0.44
2:0B:160:LYS:HE2	2:0B:160:LYS:HB3	1.87	0.43
5:0E:38:ASP:N	5:0E:41:ASN:OD1	2.50	0.43
7:0G:12:LYS:CG	7:0G:13:TYR:H	2.30	0.43
8:0H:395:ILE:HA	8:0H:398:GLU:OE2	2.18	0.43
8:0H:417:GLY:HA3	8:1H:78:LYS:HE3	2.00	0.43
9:0N:83:ALA:HB1	9:0N:105:THR:O	2.17	0.43
10:0Q:53:ASN:ND2	45:AA:399:TYR:HD2	2.15	0.43
11:0S:207:VAL:O	11:0S:211:LEU:HG	2.18	0.43
11:0S:277:GLN:NE2	46:WB:122:LYS:HE3	2.33	0.43
16:1B:19:HIS:CE1	16:1B:181:LYS:NZ	2.86	0.43
16:1B:306:VAL:HG13	16:1B:307:PHE:N	2.29	0.43
16:1B:324:ASP:HB3	16:1B:365:PHE:HE1	1.83	0.43
7:1G:150:GLU:OE1	7:1G:152:GLY:N	2.51	0.43
8:1H:385:GLU:HA	8:1H:388:LYS:HG2	2.00	0.43
18:1I:222:GLU:HG2	15:4X:141:PHE:HE1	1.79	0.43
20:1K:241:LEU:O	20:1K:245:TRP:CD1	2.71	0.43
21:1L:283:ARG:NH1	46:BH:357:PRO:O	2.49	0.43
21:1L:285:ARG:HH21	21:1L:288:GLU:HG2	1.82	0.43
21:1L:902:LEU:HD12	21:1L:902:LEU:O	2.17	0.43
24:1P:120:ARG:NH2	24:1P:123:ASP:OD2	2.50	0.43
25:1R:73:ASP:OD1	25:1R:74:THR:N	2.51	0.43
25:1R:311:ASN:HB2	25:1R:315:GLN:O	2.17	0.43
26:1W:165:ILE:HA	46:LD:279:GLN:HE22	1.83	0.43
15:1X:45:GLN:NE2	45:ME:282:TYR:CG	2.86	0.43
21:2L:268:LEU:HD22	21:2L:328:GLU:HG3	1.99	0.43
21:2L:580:ARG:O	21:2L:582:LYS:N	2.51	0.43
21:2L:861:ARG:NH1	21:2L:904:LEU:HD11	2.33	0.43
9:2N:248:ASN:O	9:2N:252:GLU:OE1	2.35	0.43
23:2O:199:LYS:NZ	45:UK:56:THR:O	2.50	0.43
23:2O:208:LEU:HD13	23:2O:211:ILE:HD12	2.00	0.43
23:2O:275:LYS:HA	23:2O:278:ARG:HE	1.81	0.43
23:2O:338:LEU:HB3	23:2O:342:ARG:NH2	2.30	0.43
24:2P:439:HIS:HD2	45:TK:282:TYR:CE2	2.36	0.43
11:2S:15:ILE:HA	11:2S:18:ARG:NH1	2.32	0.43
13:2U:512:ARG:HB3	13:2U:530:GLY:HA2	1.98	0.43
15:2X:30:GLU:HG3	15:2X:32:LEU:HD13	1.99	0.43
16:3B:154:LYS:HG3	16:3B:165:GLU:HG2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:3R:129:LEU:HD13	25:3R:169:LEU:HD21	2.00	0.43
11:3S:162:PRO:HA	11:3S:165:LEU:HB2	2.00	0.43
13:3U:400:ILE:HD11	13:3U:439:GLN:HG2	2.00	0.43
13:3U:493:PHE:HA	13:3U:509:GLY:HA2	2.00	0.43
27:4C:140:GLN:HE22	27:4C:142:GLY:C	2.23	0.43
33:4F:8:TYR:CZ	45:GI:84:ARG:HB2	2.53	0.43
10:4Q:179:PRO:HA	10:4Q:182:LYS:HZ2	1.83	0.43
35:4S:98:TYR:HE2	35:4S:127:LEU:HD22	1.82	0.43
35:4S:192:MET:HG2	46:AD:424:GLN:HG3	2.00	0.43
36:5B:146:VAL:HG13	36:5B:147:TYR:CD1	2.51	0.43
37:5E:135:LYS:HG3	37:5E:136:LEU:HD22	2.00	0.43
39:6F:21:VAL:HG23	39:6F:23:ILE:HG22	2.00	0.43
10:6Q:76:LEU:HD23	10:6Q:77:VAL:N	2.33	0.43
34:6R:12:LEU:HB3	34:6R:13:PRO:CD	2.48	0.43
34:7R:107:PRO:HA	46:BD:360:GLY:HA3	1.99	0.43
34:7R:369:ILE:HD12	34:7R:370:PRO:HD2	1.99	0.43
43:8P:157:UNK:O	46:QH:276:ARG:NH2	2.50	0.43
46:AB:404:ASP:N	46:AB:404:ASP:OD1	2.51	0.43
45:AC:250:VAL:HG11	45:AC:318:MET:HE1	1.99	0.43
46:AD:341:PHE:HD2	46:AD:348:ASN:HD21	1.66	0.43
45:AE:221:ARG:NE	46:AF:325:GLU:OE1	2.51	0.43
45:AE:304:LYS:HB2	45:AE:304:LYS:HE2	1.83	0.43
46:AH:21:TRP:CZ2	46:AH:63:ALA:HB2	2.53	0.43
46:AH:213:ARG:HE	46:AH:213:ARG:HB2	1.68	0.43
46:AH:318:ARG:HD3	46:AH:358:PRO:HD3	2.00	0.43
45:AK:223:THR:HG23	45:AK:225:THR:H	1.83	0.43
45:AK:434:GLU:O	45:AK:437:ILE:HG12	2.18	0.43
46:AN:208:TYR:HE2	46:AN:225:LEU:HD21	1.83	0.43
45:BA:60:LYS:NZ	45:BA:86:LEU:HA	2.33	0.43
45:BA:100:ALA:HB1	46:BB:252:LYS:HA	1.99	0.43
46:BB:167:PHE:CE1	46:BB:233:MET:HE1	2.53	0.43
46:BF:299:MET:HE1	46:BF:367:PHE:CE2	2.53	0.43
45:BI:3:GLU:OE2	45:BI:130:THR:N	2.50	0.43
46:BJ:137:HIS:NE2	46:BJ:166:THR:OG1	2.49	0.43
45:BM:208:ALA:O	45:BM:212:ILE:HG12	2.18	0.43
46:BN:267:MET:HE1	46:BN:373:ALA:HB3	1.99	0.43
45:CA:167:LEU:HD11	45:CA:252:ILE:HD11	1.99	0.43
45:CA:317:MET:N	45:CA:317:MET:SD	2.90	0.43
46:CD:252:LYS:HG2	45:CE:100:ALA:HA	2.00	0.43
45:CG:346:TRP:CG	46:CH:391:ARG:HG3	2.53	0.43
45:DA:328:VAL:HG11	45:DA:353:VAL:HG21	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DB:6:HIS:CE1	46:DB:8:GLN:HB3	2.53	0.43
46:DB:55:THR:HG23	46:EB:283:ALA:HA	2.00	0.43
46:DD:154:LYS:HA	46:DD:157:GLU:OE2	2.18	0.43
46:DD:220:PRO:HG2	45:DC:326:LYS:HE2	2.00	0.43
46:DH:294:PHE:HE1	46:DH:333:VAL:HG11	1.83	0.43
46:DJ:22:GLU:HG2	46:DJ:81:PHE:CD1	2.53	0.43
46:DJ:54:ALA:HA	46:EJ:283:ALA:HB2	2.00	0.43
46:EB:243:PRO:HB3	45:EC:77:GLU:CD	2.42	0.43
46:EB:324:LYS:HD3	45:EC:222:PRO:CG	2.48	0.43
46:EF:148:GLY:O	46:EF:152:ILE:HG13	2.18	0.43
45:EG:164:LYS:HD2	45:EG:164:LYS:HA	1.79	0.43
45:EG:285:GLN:H	45:EG:285:GLN:CD	2.25	0.43
45:EG:318:MET:HB2	45:EG:376:CYS:SG	2.58	0.43
46:EH:420:SER:O	46:EH:423:GLN:HG3	2.17	0.43
45:EI:332:ILE:HD12	45:EI:351:PHE:CD2	2.52	0.43
46:EJ:391:ARG:HD2	46:EJ:391:ARG:HA	1.79	0.43
46:EL:12:CYS:SG	46:EL:13:GLY:N	2.90	0.43
45:FA:98:ASP:O	46:FB:251:ARG:NH2	2.51	0.43
45:FA:119:LEU:HD11	45:FA:156:ARG:HG2	2.00	0.43
45:FA:434:GLU:O	45:FA:437:ILE:HG12	2.18	0.43
45:FG:434:GLU:O	45:FG:437:ILE:HG22	2.18	0.43
46:FJ:173:PRO:HD2	46:FJ:174:LYS:NZ	2.33	0.43
46:FL:156:ARG:HH22	46:FL:197:ASP:CG	2.26	0.43
45:FM:141:VAL:HG11	45:FM:172:TYR:CD1	2.53	0.43
45:GA:71:GLU:HA	45:GA:72:PRO:HD3	1.91	0.43
46:GF:16:ILE:HD12	46:GF:229:VAL:HG11	2.00	0.43
46:GL:164:MET:HE3	46:GL:164:MET:HB2	1.79	0.43
46:GN:140:GLY:HA2	46:GN:171:PRO:HG3	2.00	0.43
45:HA:104:ALA:HB1	45:HA:411:GLU:OE1	2.18	0.43
45:HA:183:GLU:N	45:HA:184:PRO:HD2	2.33	0.43
46:HF:238:CYS:SG	46:HF:239:CYS:N	2.90	0.43
45:HG:91:GLN:HB3	45:HG:121:ARG:HH22	1.82	0.43
45:HG:339:ARG:HD3	45:HG:339:ARG:O	2.18	0.43
46:HH:116:VAL:HA	46:HH:119:VAL:HG12	2.00	0.43
46:HH:399:THR:HA	46:HH:403:MET:O	2.18	0.43
45:HI:105:ARG:HG2	45:HI:411:GLU:OE2	2.18	0.43
45:HI:264:ARG:HG3	45:HI:264:ARG:NH1	2.33	0.43
46:HJ:239:CYS:SG	46:HJ:247:ASN:HA	2.58	0.43
45:HK:107:HIS:ND1	45:HK:107:HIS:O	2.51	0.43
46:HL:116:VAL:O	46:HL:120:VAL:HG12	2.17	0.43
45:IA:116:ASP:OD1	45:IA:117:LEU:N	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IA:414:GLU:HG2	45:IA:417:GLU:HG2	2.00	0.43
45:IC:184:PRO:O	45:IC:188:ILE:HG12	2.18	0.43
46:ID:178:THR:HB	46:ID:181:GLU:CD	2.43	0.43
45:IE:401:LYS:HB2	45:IE:401:LYS:HE3	1.66	0.43
45:IG:280:LYS:CE	45:IG:283:HIS:HB2	2.47	0.43
46:IJ:280:GLN:HG2	46:IJ:281:TYR:CD2	2.53	0.43
45:IK:172:TYR:OH	45:IK:191:THR:HG22	2.18	0.43
45:IM:178:SER:OG	46:IN:347:ASN:OD1	2.31	0.43
45:IM:214:ARG:NE	45:IM:220:GLU:OE1	2.50	0.43
45:IM:241:SER:OG	45:IM:250:VAL:O	2.25	0.43
45:IM:387:VAL:HA	45:IM:390:ARG:HG2	2.00	0.43
46:IN:238:CYS:SG	46:IN:318:ARG:NH1	2.91	0.43
45:JA:223:THR:HG23	45:JA:225:THR:H	1.83	0.43
46:JB:167:PHE:CE2	46:JB:200:MET:HE3	2.52	0.43
45:JC:76:ASP:O	45:JC:80:THR:HG23	2.18	0.43
45:JC:121:ARG:HA	45:JC:121:ARG:NE	2.32	0.43
45:JC:141:VAL:HG22	45:JC:187:SER:HA	2.00	0.43
46:JD:73:MET:HE1	46:JD:91:VAL:O	2.18	0.43
45:JE:231:ILE:O	45:JE:235:ILE:HG12	2.17	0.43
46:JH:256:ASN:O	46:JH:312:THR:HG21	2.18	0.43
45:JI:175:PRO:HG3	45:JI:390:ARG:NH1	2.33	0.43
46:JJ:178:THR:HG22	46:JJ:180:VAL:H	1.83	0.43
46:JJ:182:PRO:HD2	46:JJ:388:MET:HE1	2.00	0.43
46:JJ:294:PHE:HE2	46:JJ:333:VAL:HG11	1.83	0.43
45:JK:286:LEU:N	45:JK:290:GLU:OE2	2.51	0.43
46:JL:145:SER:HB2	46:JL:188:SER:OG	2.17	0.43
46:JN:53:GLU:N	46:JN:53:GLU:OE2	2.51	0.43
46:KB:105:HIS:CE1	46:KB:150:LEU:HD12	2.52	0.43
45:KC:69:ASP:OD2	45:KC:70:LEU:N	2.50	0.43
45:KC:322:ASP:OD1	45:KC:373:ARG:NH1	2.51	0.43
46:KD:88:ASP:OD2	46:KD:89:ASN:N	2.51	0.43
45:KE:36:MET:HG2	45:KE:61:HIS:HE1	1.83	0.43
45:KE:145:THR:HG22	47:KE:501:GTP:PG	2.58	0.43
45:KE:296:PHE:HE2	45:KE:335:ILE:HG21	1.82	0.43
46:KF:169:VAL:HG23	46:KF:169:VAL:O	2.18	0.43
46:KF:362:LYS:HE3	46:KF:362:LYS:HB3	1.68	0.43
46:KH:423:GLN:NE2	46:KH:423:GLN:O	2.51	0.43
46:KJ:392:LYS:HG2	46:KJ:395:LEU:HD12	1.99	0.43
45:KM:81:GLY:O	45:KM:84:ARG:HG3	2.18	0.43
45:KM:175:PRO:HG2	45:KM:176:GLN:OE1	2.18	0.43
45:KM:200:VAL:HG13	45:KM:268:MET:HE2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KM:331:SER:O	45:KM:335:ILE:HG12	2.17	0.43
46:LB:285:THR:HB	46:LB:287:PRO:HD2	2.00	0.43
46:LB:405:GLU:H	46:LB:405:GLU:CD	2.26	0.43
45:LG:36:MET:HB3	45:LG:40:LYS:HE2	2.00	0.43
45:LG:188:ILE:HG13	45:LG:189:LEU:N	2.33	0.43
46:LH:163:ILE:HD13	46:LH:250:LEU:HG	2.00	0.43
45:LI:169:PHE:HB3	45:LI:204:LEU:HD11	2.00	0.43
46:LJ:257:LEU:HD23	46:LJ:266:PHE:CZ	2.53	0.43
46:LL:1:MET:O	46:LL:2:ARG:HG2	2.18	0.43
45:MA:398:MET:SD	46:MB:345:ILE:HD12	2.58	0.43
45:MC:21:TRP:CH2	45:MC:63:PRO:HB3	2.53	0.43
46:MD:132:GLY:HA3	46:MD:163:ILE:HG22	2.00	0.43
45:ME:55:GLU:HA	45:ME:55:GLU:OE1	2.18	0.43
45:MI:231:ILE:O	45:MI:235:ILE:HG12	2.18	0.43
46:ML:172:SER:HB3	46:ML:203:ASP:OD2	2.18	0.43
46:ML:293:MET:HE1	46:ML:315:ALA:CB	2.46	0.43
45:MM:36:MET:HE2	45:MM:41:THR:HG21	2.00	0.43
45:MM:109:THR:HB	45:MM:110:ILE:HD12	2.00	0.43
45:NA:319:TYR:CD1	45:NA:375:VAL:HG22	2.53	0.43
46:NB:47:ILE:HG21	46:NB:59:TYR:CD1	2.52	0.43
46:ND:183:TYR:CE1	46:ND:388:MET:HB3	2.50	0.43
46:NF:310:TYR:CD1	46:NF:371:SER:HB2	2.53	0.43
45:NG:358:GLN:OE1	45:NG:359:PRO:HD2	2.17	0.43
46:NJ:54:ALA:HB3	46:NJ:58:ARG:HG2	2.00	0.43
46:NJ:230:SER:HA	46:NJ:233:MET:HE3	2.00	0.43
45:NK:211:ASP:O	45:NK:214:ARG:HG3	2.18	0.43
45:NK:326:LYS:NZ	46:NN:218:THR:O	2.35	0.43
46:NL:213:ARG:CZ	46:NL:297:LYS:HZ2	2.30	0.43
45:NM:156:ARG:HA	45:NM:156:ARG:CZ	2.49	0.43
45:NM:202:VAL:C	45:NM:203:MET:HE2	2.43	0.43
45:NM:276:ILE:HD13	45:NM:371:VAL:HG21	2.00	0.43
46:NN:285:THR:OG1	46:NN:287:PRO:HD2	2.18	0.43
45:OA:258:ASN:ND2	45:OA:352:LYS:HE3	2.33	0.43
45:OC:207:GLU:OE2	45:OC:304:LYS:HD2	2.18	0.43
45:OE:248:LEU:HD13	45:OE:355:ILE:HD13	2.00	0.43
46:OF:219:THR:O	46:OF:219:THR:HG23	2.18	0.43
45:OG:121:ARG:HA	45:OG:124:LYS:HZ3	1.83	0.43
45:OI:34:GLY:O	45:OI:60:LYS:HA	2.18	0.43
46:OJ:324:LYS:O	46:OJ:328:GLU:OE1	2.35	0.43
45:OK:285:GLN:HB2	45:OK:290:GLU:OE2	2.18	0.43
45:OK:331:SER:O	45:OK:335:ILE:HG12	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OL:318:ARG:HG2	46:OL:357:PRO:HA	2.00	0.43
45:OM:390:ARG:HG3	45:OM:391:LEU:N	2.33	0.43
45:OM:394:LYS:O	45:OM:397:LEU:HG	2.18	0.43
45:PA:118:CYS:SG	45:PA:153:LEU:HD11	2.58	0.43
45:PA:267:PHE:HD2	45:PA:388:PHE:HZ	1.66	0.43
46:PB:63:ALA:O	46:PB:89:ASN:ND2	2.35	0.43
46:PD:294:PHE:CD2	46:PD:333:VAL:HG21	2.53	0.43
45:PE:224:TYR:HB2	46:PF:245:GLN:NE2	2.33	0.43
45:PE:427:ALA:HA	45:PE:430:LYS:HG2	2.00	0.43
46:PF:12:CYS:O	46:PF:16:ILE:HG12	2.18	0.43
46:PF:304:ASP:OD1	46:PF:306:ARG:HG2	2.18	0.43
46:PF:344:TRP:HB3	46:PF:430:ALA:HB2	2.00	0.43
45:PG:434:GLU:O	45:PG:437:ILE:HG12	2.18	0.43
46:PH:380:ARG:O	46:PH:384:GLN:OE1	2.36	0.43
45:PI:55:GLU:HG3	45:PI:57:GLY:H	1.82	0.43
45:PI:152:LEU:O	45:PI:155:GLU:HG3	2.18	0.43
45:PK:98:ASP:OD1	45:PK:99:ALA:N	2.51	0.43
45:PM:111:GLY:O	45:PM:115:VAL:HG13	2.17	0.43
45:QA:401:LYS:HB2	45:QA:401:LYS:HE3	1.73	0.43
46:QB:55:THR:HG23	46:RB:283:ALA:HA	2.00	0.43
45:QC:265:ILE:HG12	45:QC:432:TYR:CE1	2.52	0.43
45:QC:271:SER:OG	45:QC:301:MET:HG2	2.18	0.43
45:QE:206:ASN:CG	47:QE:501:GTP:HN22	2.26	0.43
45:QI:171:ILE:HG22	45:QI:204:LEU:HB2	1.99	0.43
46:QJ:51:TYR:HB3	46:QJ:59:TYR:HD2	1.83	0.43
45:QK:31:GLN:HG2	45:QK:35:GLN:H	1.83	0.43
45:QK:261:PRO:HA	46:QL:394:PHE:HD1	1.83	0.43
46:RB:8:GLN:OE1	46:RB:17:GLY:HA3	2.18	0.43
45:RE:52:PHE:HZ	45:RE:239:THR:HG21	1.82	0.43
45:RE:97:GLU:OE1	45:RE:105:ARG:NH2	2.35	0.43
45:RE:298:PRO:HA	45:RE:301:MET:HG2	2.00	0.43
46:RN:91:VAL:HG21	46:RN:116:VAL:HB	2.00	0.43
45:SC:174:SER:HB2	45:SC:177:VAL:O	2.18	0.43
45:SC:229:ARG:HH12	45:SC:366:GLY:CA	2.24	0.43
45:SC:280:LYS:HA	45:SC:283:HIS:ND1	2.32	0.43
46:SD:266:PHE:CE1	46:SD:370:ASN:HB2	2.53	0.43
46:SF:135:ILE:HG13	46:SF:152:ILE:HD11	2.00	0.43
45:SG:208:ALA:O	45:SG:212:ILE:HG12	2.18	0.43
46:SH:31:ASP:HB2	46:SH:32:PRO:HD2	2.00	0.43
46:SH:113:ILE:HG12	46:SH:117:LEU:HG	1.99	0.43
46:TB:64:ILE:HA	46:TB:89:ASN:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TC:115:VAL:O	45:TC:119:LEU:HG	2.18	0.43
46:TF:165:GLU:OE2	46:TF:250:LEU:HD13	2.18	0.43
45:TG:402:ARG:NH2	45:TG:415:GLU:OE1	2.50	0.43
46:TH:11:GLN:O	46:TH:15:GLN:HG2	2.18	0.43
46:TH:322:SER:HB2	45:TI:222:PRO:O	2.17	0.43
46:TN:133:PHE:HB2	46:TN:164:MET:SD	2.57	0.43
45:UC:268:MET:HB2	45:UC:379:SER:O	2.17	0.43
45:UE:427:ALA:HA	45:UE:430:LYS:HG2	1.99	0.43
45:UI:386:GLU:O	45:UI:390:ARG:HG2	2.18	0.43
46:UJ:317:PHE:HB3	46:UJ:363:MET:HE1	1.99	0.43
46:UL:286:VAL:HG23	46:UL:287:PRO:HD3	1.99	0.43
45:VA:171:ILE:HG23	45:VA:204:LEU:O	2.18	0.43
45:VA:339:ARG:HG3	45:VA:340:THR:N	2.32	0.43
46:VB:380:ARG:NH1	46:VB:381:VAL:HG23	2.33	0.43
45:VC:261:PRO:HG3	46:VF:394:PHE:CZ	2.53	0.43
45:VC:320:ARG:HB2	45:VC:358:GLN:O	2.18	0.43
45:VE:152:LEU:O	45:VE:156:ARG:HG2	2.17	0.43
45:VE:319:TYR:CE2	45:VE:328:VAL:HG13	2.52	0.43
45:VG:223:THR:HB	46:VH:322:SER:CB	2.48	0.43
46:VJ:317:PHE:HB2	46:VJ:353:ILE:HD13	2.00	0.43
46:VN:262:ARG:HA	46:VN:262:ARG:NE	2.32	0.43
45:WA:18:ASN:O	45:WA:22:GLU:OE1	2.36	0.43
45:WA:276:ILE:HD11	45:WA:280:LYS:HG3	1.99	0.43
46:WF:145:SER:HB3	46:WF:188:SER:HB3	1.99	0.43
46:WF:308:GLY:HA2	46:WF:426:GLN:NE2	2.33	0.43
46:WF:310:TYR:CD1	46:WF:371:SER:HB2	2.53	0.43
46:WF:325:GLU:HA	46:WF:328:GLU:HG3	2.00	0.43
45:WG:319:TYR:CD2	45:WG:328:VAL:HG22	2.52	0.43
45:WI:404:PHE:CD1	46:WJ:259:PRO:HA	2.53	0.43
46:WJ:46:ARG:NE	46:WJ:46:ARG:HA	2.33	0.43
46:WJ:213:ARG:HA	46:WJ:216:LYS:NZ	2.32	0.43
46:WL:1:MET:HA	46:WL:1:MET:HE2	1.99	0.43
46:WL:16:ILE:HD12	46:WL:229:VAL:HG11	2.00	0.43
46:WL:350:LYS:HD3	46:WL:351:SER:N	2.33	0.43
45:CE:8:HIS:CD2	45:CE:138:PHE:HD2	2.36	0.43
45:CE:60:LYS:NZ	45:CE:86:LEU:HA	2.33	0.43
45:DC:188:ILE:HG13	45:DC:425:LEU:HD11	2.00	0.43
1:0A:127:ASN:HD21	46:AB:279:GLN:HE22	1.65	0.43
2:0B:114:TYR:CD1	2:0B:122:ILE:HD11	2.53	0.43
9:0N:185:PHE:HE1	9:0N:207:VAL:HG21	1.83	0.43
13:0U:120:LEU:HB2	13:0U:152:ILE:HD13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:0U:193:LYS:HE3	46:WB:79:GLY:HA3	2.00	0.43
13:0U:322:ARG:NH2	13:0U:595:ALA:HB1	2.33	0.43
16:1B:113:ASN:OD1	16:1B:114:GLY:N	2.50	0.43
4:1D:81:ARG:NH2	46:EF:357:PRO:HG2	2.30	0.43
17:1F:88:ASN:HB3	17:1F:89:VAL:H	1.62	0.43
8:1H:172:GLN:OE1	46:HJ:276:ARG:HG2	2.17	0.43
18:1I:79:GLY:HA2	46:JD:276:ARG:CD	2.49	0.43
20:1K:154:HIS:O	20:1K:158:THR:HG23	2.18	0.43
20:1K:203:TYR:O	20:1K:207:LYS:HG2	2.17	0.43
20:1K:214:LYS:HA	20:1K:217:HIS:CD2	2.53	0.43
21:1L:314:ASN:HB2	46:BH:320:ARG:NH1	2.33	0.43
21:1L:708:VAL:HG23	21:1L:709:TYR:CD2	2.53	0.43
22:1M:126:MET:HE3	22:1M:130:ASP:OD1	2.18	0.43
24:1P:362:LYS:NZ	46:TB:357:PRO:HG2	2.33	0.43
11:1S:36:ALA:O	11:1S:37:LYS:HG3	2.19	0.43
12:1T:50:GLU:O	12:1T:53:ARG:HG2	2.17	0.43
16:2B:155:SER:HB3	16:2B:158:GLY:H	1.82	0.43
16:2B:258:LYS:HG3	45:KK:279:GLU:HB3	2.00	0.43
4:2D:81:ARG:NH1	46:EJ:356:ILE:HG23	2.32	0.43
5:2E:53:LYS:HE2	34:5R:382:TYR:HE1	1.83	0.43
5:2E:130:PRO:HA	5:2E:133:LYS:HE2	1.99	0.43
21:2L:270:ASP:HB3	21:2L:378:ARG:HD2	2.00	0.43
9:2N:48:GLU:HB3	9:2N:52:LYS:HZ1	1.82	0.43
23:2O:210:ILE:HG12	45:VI:279:GLU:OE2	2.18	0.43
23:2O:352:ARG:HH22	46:VF:276:ARG:NH1	2.16	0.43
23:2O:386:GLU:HA	23:2O:389:LYS:HZ2	1.83	0.43
25:2R:291:GLY:HA3	46:DH:276:ARG:HB2	1.99	0.43
25:2R:312:GLN:CG	25:2R:313:PRO:HD3	2.45	0.43
13:2U:341:THR:HA	13:2U:364:GLU:CD	2.43	0.43
14:2V:22:ARG:HH22	45:ME:422:ARG:HG3	1.82	0.43
5:3E:25:ARG:HA	5:3E:25:ARG:HD3	1.83	0.43
30:3H:194:LYS:NZ	46:AH:39:ASP:OD2	2.52	0.43
10:3Q:3:LYS:O	10:3Q:4:ASN:OD1	2.35	0.43
10:3Q:34:ILE:HD12	10:3Q:48:GLU:O	2.18	0.43
10:3Q:127:GLU:OE2	10:3Q:127:GLU:HA	2.18	0.43
11:3S:152:SER:HA	46:WN:95:THR:HG21	2.00	0.43
12:3T:60:LYS:HB3	12:3T:146:MET:HE2	2.00	0.43
13:3U:420:ILE:O	13:3U:432:TRP:HD1	2.00	0.43
14:3V:178:GLU:O	14:3V:182:ILE:HG12	2.18	0.43
33:4F:110:ASN:HB3	33:4F:111:GLU:OE2	2.17	0.43
33:4F:194:MET:HE2	33:4F:194:MET:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5B:163:ALA:HB1	45:NG:279:GLU:O	2.18	0.43
37:5F:16:GLN:HG2	37:5F:22:LYS:HZ2	1.83	0.43
10:5Q:88:THR:HG22	10:5Q:106:SER:HA	1.99	0.43
34:5R:149:GLN:HB3	34:5R:159:TYR:CD1	2.53	0.43
34:5R:278:TYR:HE2	34:5R:331:PRO:HG3	1.83	0.43
34:5R:284:THR:HB	34:5R:306:ARG:NH2	2.32	0.43
34:6R:583:GLN:NE2	34:6R:587:THR:OG1	2.52	0.43
34:7R:207:ASP:O	34:7R:210:GLU:HG3	2.18	0.43
45:AA:212:ILE:HD11	45:AA:300:ASN:HA	2.00	0.43
46:AB:3:GLU:HG3	46:AB:62:ARG:NH1	2.33	0.43
46:AB:183:TYR:O	46:AB:187:LEU:HD23	2.19	0.43
46:AD:201:VAL:HG22	46:AD:266:PHE:O	2.18	0.43
46:AF:86:ARG:HB2	46:AF:89:ASN:OD1	2.17	0.43
46:AF:230:SER:HA	46:AF:233:MET:HE3	2.00	0.43
45:AG:240:ALA:O	45:AG:244:PHE:HB2	2.17	0.43
46:AJ:233:MET:O	46:AJ:236:VAL:HG12	2.17	0.43
46:AL:198:GLU:OE2	46:AL:254:ALA:HB2	2.19	0.43
45:AM:174:SER:HB3	45:AM:207:GLU:CD	2.43	0.43
46:AN:309:ARG:H	46:AN:426:GLN:HE22	1.66	0.43
45:BA:389:SER:O	45:BA:393:HIS:ND1	2.37	0.43
46:BD:68:LEU:HD23	46:BD:147:MET:HE3	2.00	0.43
46:BD:309:ARG:NH2	46:BD:426:GLN:O	2.41	0.43
45:BE:22:GLU:O	45:BE:26:LEU:HD23	2.18	0.43
45:BE:399:TYR:OH	45:BE:415:GLU:OE2	2.36	0.43
45:BK:171:ILE:HG23	45:BK:204:LEU:O	2.18	0.43
46:BL:211:CYS:SG	46:BL:220:PRO:HB3	2.58	0.43
45:BM:147:SER:HB2	45:BM:190:SER:HB3	2.00	0.43
45:BM:177:VAL:HB	45:BM:207:GLU:OE2	2.19	0.43
45:BM:372:MET:SD	45:BM:372:MET:N	2.92	0.43
46:BN:213:ARG:NE	46:BN:297:LYS:HE3	2.32	0.43
45:CC:66:VAL:HG11	45:CC:122:ILE:HD11	2.00	0.43
45:CG:182:VAL:HG22	45:CG:185:TYR:HB2	2.00	0.43
46:CH:121:ARG:O	46:CH:125:GLU:OE1	2.36	0.43
45:CK:133:GLN:HB2	45:CK:252:ILE:HD11	1.99	0.43
45:CK:149:LEU:O	45:CK:153:LEU:HD23	2.18	0.43
45:CM:387:VAL:HG12	45:CM:390:ARG:NH1	2.33	0.43
46:DB:334:GLN:HA	46:DB:341:PHE:CE2	2.53	0.43
45:DK:75:ILE:O	45:DK:79:ARG:HG2	2.18	0.43
46:DL:73:MET:HB2	46:DL:90:PHE:CD1	2.53	0.43
46:DN:318:ARG:HH11	46:DN:358:PRO:HG3	1.82	0.43
46:EB:69:GLU:HA	46:EB:70:PRO:HD3	1.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EB:212:PHE:HE2	46:EB:220:PRO:HG2	1.82	0.43
45:EE:69:ASP:OD2	45:EE:71:GLU:N	2.45	0.43
46:EL:321:MET:N	46:EL:321:MET:SD	2.91	0.43
46:EL:379:LYS:O	46:EL:383:GLU:OE1	2.37	0.43
46:EN:289:LEU:HD13	46:EN:365:VAL:HG23	2.00	0.43
46:FB:102:ALA:HA	46:FB:403:MET:HE3	1.99	0.43
45:FC:21:TRP:HZ2	45:FC:65:ALA:HB2	1.82	0.43
45:FC:90:GLU:OE2	45:FC:90:GLU:N	2.51	0.43
45:FC:331:SER:O	45:FC:335:ILE:HG12	2.17	0.43
45:FE:296:PHE:CE2	45:FE:335:ILE:HG21	2.53	0.43
45:FG:371:VAL:HG12	45:FG:373:ARG:H	1.84	0.43
46:FH:287:PRO:HD3	46:FH:325:GLU:OE1	2.18	0.43
46:FL:65:LEU:HD22	46:FL:90:PHE:CE1	2.53	0.43
46:FL:214:THR:HG23	46:FL:215:LEU:HD22	2.00	0.43
46:FN:68:LEU:HD23	46:FN:97:ALA:HB2	1.99	0.43
46:FN:193:VAL:HG23	46:FN:265:PHE:HE1	1.82	0.43
45:GC:18:ASN:C	45:GC:18:ASN:HD22	2.24	0.43
45:GC:257:THR:HG22	46:GF:397:TRP:CZ3	2.53	0.43
46:GH:330:MET:HE2	46:GH:349:ILE:HG21	1.99	0.43
46:GH:403:MET:HE3	46:GH:408:PHE:CZ	2.54	0.43
45:GI:272:TYR:HD2	45:GI:275:ILE:HD11	1.83	0.43
46:GL:147:MET:HE1	46:GL:150:LEU:HD22	1.99	0.43
45:GM:155:GLU:HG2	45:GM:197:HIS:CD2	2.53	0.43
46:GN:36:TYR:CE1	46:GN:44:LEU:HG	2.53	0.43
46:GN:64:ILE:HG13	46:GN:120:VAL:HG12	2.00	0.43
45:HA:241:SER:OG	45:HA:250:VAL:O	2.37	0.43
45:HA:372:MET:H	45:HA:372:MET:HE2	1.83	0.43
45:HC:202:VAL:C	45:HC:203:MET:HE2	2.43	0.43
45:HC:317:MET:SD	45:HC:317:MET:N	2.91	0.43
45:HE:256:GLN:CD	46:HH:397:TRP:HZ2	2.25	0.43
46:HF:242:PHE:CD2	46:HF:356:ILE:HG21	2.54	0.43
46:HH:68:LEU:HB3	46:HH:96:GLY:HA2	1.99	0.43
46:HH:253:LEU:O	46:HH:257:LEU:HD23	2.17	0.43
46:HH:309:ARG:HH21	46:HH:342:VAL:HA	1.81	0.43
45:HK:239:THR:HG23	45:HK:243:ARG:HH21	1.83	0.43
45:HK:358:GLN:NE2	45:HK:359:PRO:O	2.51	0.43
45:HK:434:GLU:O	45:HK:437:ILE:HG12	2.18	0.43
46:HL:350:LYS:NZ	46:HL:352:SER:HG	2.12	0.43
45:HM:71:GLU:OE2	46:HN:2:ARG:NH2	2.52	0.43
46:HN:268:ILE:HG13	46:HN:300:MET:HE2	2.00	0.43
45:IA:167:LEU:HD11	45:IA:252:ILE:HG23	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IA:352:LYS:NZ	46:ID:179:VAL:H	2.14	0.43
45:IA:384:ILE:O	45:IA:387:VAL:HG22	2.18	0.43
46:IB:221:THR:O	46:IB:225:LEU:HG	2.18	0.43
46:IB:226:ASN:HA	46:IB:229:VAL:HG22	2.00	0.43
45:IC:271:SER:OG	45:IC:301:MET:SD	2.76	0.43
45:IC:284:GLU:HG2	45:IC:286:LEU:HD22	1.99	0.43
46:ID:386:THR:O	46:ID:390:ARG:HG2	2.18	0.43
45:IE:68:LEU:HD21	45:IE:118:CYS:SG	2.58	0.43
46:IH:66:MET:HE1	46:IH:147:MET:HG2	1.99	0.43
46:IJ:347:ASN:C	46:IJ:347:ASN:HD22	2.25	0.43
45:IK:69:ASP:HB3	45:IK:75:ILE:HD11	2.00	0.43
45:IM:179:THR:HG22	46:IN:350:LYS:HZ3	1.83	0.43
45:IM:420:GLU:HA	45:IM:423:GLU:CD	2.43	0.43
46:IN:232:ALA:HB1	46:IN:268:ILE:HD12	2.00	0.43
45:JA:259:LEU:HD23	45:JA:314:ALA:HB1	1.99	0.43
46:JD:286:VAL:HG12	46:JD:329:GLN:HG3	1.99	0.43
46:JF:391:ARG:HA	46:JF:391:ARG:HD2	1.81	0.43
45:JG:244:PHE:CE2	45:JG:358:GLN:HG2	2.53	0.43
45:JG:259:LEU:HD21	45:JG:316:SER:HB2	1.99	0.43
46:JH:374:ILE:HD12	46:JH:374:ILE:H	1.83	0.43
45:JI:181:VAL:HG12	46:JJ:256:ASN:OD1	2.18	0.43
45:JK:272:TYR:HD1	45:JK:376:CYS:HB3	1.83	0.43
45:JM:19:ALA:O	45:JM:22:GLU:HG2	2.18	0.43
46:KB:150:LEU:O	46:KB:153:SER:OG	2.26	0.43
46:KB:258:ILE:HG12	46:KB:266:PHE:HZ	1.83	0.43
45:KE:96:LYS:HA	46:KF:1:MET:HE1	2.01	0.43
45:KE:386:GLU:O	45:KE:390:ARG:HG3	2.19	0.43
45:KI:5:ILE:HB	45:KI:135:PHE:CD1	2.53	0.43
45:KK:18:ASN:O	45:KK:22:GLU:HG2	2.18	0.43
46:KL:8:GLN:HE21	46:KL:65:LEU:CD2	2.31	0.43
46:KN:1:MET:N	46:KN:3:GLU:OE1	2.48	0.43
46:LB:68:LEU:HD12	46:LB:97:ALA:HB2	2.01	0.43
46:LD:275:SER:O	46:LD:279:GLN:HB2	2.18	0.43
45:LG:88:HIS:HB3	45:LG:91:GLN:HG2	2.01	0.43
45:LI:185:TYR:HE1	45:LI:398:MET:HB3	1.82	0.43
45:LI:254:GLU:O	45:LI:352:LYS:NZ	2.50	0.43
45:MA:174:SER:HB2	45:MA:177:VAL:O	2.17	0.43
46:MH:139:LEU:HD21	46:MH:168:SER:HB3	2.00	0.43
46:MJ:116:VAL:O	46:MJ:120:VAL:HG23	2.18	0.43
45:MK:210:TYR:CE1	45:MK:227:LEU:HD21	2.52	0.43
45:NA:234:VAL:O	45:NA:238:LEU:HD23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NA:430:LYS:O	45:NA:434:GLU:OE1	2.36	0.43
46:NB:268:ILE:HD12	46:NB:368:VAL:HG22	2.00	0.43
46:ND:6:HIS:NE2	46:ND:8:GLN:HB3	2.33	0.43
46:ND:28:HIS:C	46:ND:43:GLN:HE21	2.26	0.43
45:NE:21:TRP:CZ2	45:NE:65:ALA:HB2	2.53	0.43
46:NL:270:PHE:HD1	46:NL:366:THR:HG22	1.82	0.43
46:NL:342:VAL:HG13	46:NL:345:ILE:HG22	2.01	0.43
45:NM:203:MET:HE2	45:NM:203:MET:N	2.34	0.43
45:NM:268:MET:SD	45:NM:380:ASN:HB2	2.58	0.43
45:OA:172:TYR:CE2	45:OA:203:MET:HG3	2.53	0.43
46:OB:25:SER:OG	46:OB:30:ILE:O	2.36	0.43
46:OB:143:THR:C	46:OB:147:MET:HE2	2.42	0.43
45:OC:86:LEU:HD23	45:OC:87:PHE:CE2	2.53	0.43
45:OC:138:PHE:HE1	45:OC:169:PHE:CD2	2.36	0.43
45:OC:345:ASP:OD1	45:OC:346:TRP:N	2.50	0.43
45:OC:420:GLU:HA	45:OC:423:GLU:HG3	2.00	0.43
46:OD:83:GLN:O	46:PD:281:TYR:OH	2.36	0.43
46:OJ:178:THR:HG22	46:OJ:180:VAL:H	1.82	0.43
45:OM:60:LYS:HD3	45:PM:283:HIS:CG	2.53	0.43
45:OM:271:SER:HB2	45:OM:377:MET:HE3	1.99	0.43
45:PA:88:HIS:ND1	45:PA:90:GLU:HG2	2.33	0.43
46:PB:273:LEU:N	46:PB:292:GLN:HE22	2.07	0.43
45:PC:181:VAL:HG12	46:PD:347:ASN:O	2.18	0.43
46:PD:309:ARG:NH1	46:PD:343:GLU:OE2	2.49	0.43
46:PH:105:HIS:CE1	46:PH:150:LEU:HD12	2.53	0.43
46:PJ:19:LYS:NZ	46:PJ:223:GLY:O	2.51	0.43
45:PK:352:LYS:HD3	45:PK:353:VAL:N	2.33	0.43
46:PN:133:PHE:HB2	46:PN:164:MET:SD	2.57	0.43
46:QB:68:LEU:HD13	46:QB:143:THR:OG1	2.18	0.43
45:QC:11:GLN:HB2	45:QC:74:VAL:HG21	2.00	0.43
46:QD:344:TRP:CG	45:QE:401:LYS:HZ3	2.35	0.43
45:QE:26:LEU:HD11	45:QE:364:PRO:HD2	2.00	0.43
46:QF:324:LYS:HD3	45:QG:222:PRO:HD2	2.00	0.43
45:QG:324:VAL:HG12	45:QG:326:LYS:HG2	1.99	0.43
45:QG:340:THR:HG23	45:QG:341:ILE:HG12	2.00	0.43
47:QG:501:GTP:O2A	47:QG:501:GTP:H8	2.02	0.43
45:QI:19:ALA:HA	45:QI:22:GLU:OE1	2.17	0.43
45:QI:121:ARG:HA	45:QI:121:ARG:NH1	2.33	0.43
46:QJ:42:LEU:HD13	46:QJ:45:GLU:HG2	2.00	0.43
46:QJ:141:GLY:HA3	49:QJ:501:GDP:O3A	2.18	0.43
45:QM:326:LYS:HD3	46:QN:212:PHE:CZ	2.46	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QN:97:ALA:HB3	46:QN:143:THR:HB	1.99	0.43
46:QN:148:GLY:O	46:QN:152:ILE:HG12	2.18	0.43
46:RB:268:ILE:HG22	46:RB:368:VAL:HG13	2.00	0.43
45:RC:296:PHE:HD2	45:RC:335:ILE:HD12	1.83	0.43
45:RE:226:ASN:O	45:RE:230:LEU:HD23	2.18	0.43
45:RE:287:SER:O	45:RE:291:ILE:HG23	2.17	0.43
45:RE:384:ILE:O	45:RE:387:VAL:HG22	2.18	0.43
45:RG:8:HIS:CD2	45:RG:138:PHE:HD2	2.36	0.43
45:RG:52:PHE:HZ	45:RG:239:THR:HG21	1.83	0.43
45:RI:5:ILE:HB	45:RI:135:PHE:CD1	2.53	0.43
46:RJ:139:LEU:HD13	46:RJ:168:SER:HB3	2.00	0.43
46:RL:175:VAL:HG13	46:RL:175:VAL:O	2.18	0.43
46:SB:322:SER:OG	46:SB:325:GLU:OE2	2.32	0.43
46:SB:420:SER:O	46:SB:423:GLN:HG3	2.18	0.43
45:SC:226:ASN:O	45:SC:230:LEU:HD23	2.18	0.43
46:SD:68:LEU:HB2	46:SD:96:GLY:HA2	1.98	0.43
45:SE:138:PHE:CD1	45:SE:169:PHE:HB2	2.53	0.43
45:SE:265:ILE:HG22	45:SE:380:ASN:HD21	1.83	0.43
46:SF:2:ARG:HH22	45:SG:71:GLU:CD	2.22	0.43
46:SF:101:TRP:HB2	46:SF:184:ASN:HB3	2.00	0.43
46:SF:165:GLU:HG2	46:SF:198:GLU:OE2	2.18	0.43
46:SJ:124:ALA:O	46:SJ:130:LEU:HD21	2.17	0.43
46:SJ:217:LEU:HD23	46:SJ:219:THR:H	1.83	0.43
46:SN:312:THR:HG22	46:SN:370:ASN:HB3	2.00	0.43
46:SN:406:MET:O	46:SN:410:GLU:HG3	2.17	0.43
45:TA:34:GLY:O	45:TA:60:LYS:HA	2.17	0.43
45:TA:141:VAL:HG11	45:TA:172:TYR:HD1	1.82	0.43
45:TC:176:GLN:NE2	45:TC:207:GLU:OE2	2.51	0.43
46:TD:270:PHE:HD2	46:TD:273:LEU:HD21	1.82	0.43
45:TE:336:LYS:NZ	45:TE:349:THR:HA	2.33	0.43
45:TE:434:GLU:O	45:TE:437:ILE:HG22	2.18	0.43
45:TG:338:LYS:HD2	45:TG:339:ARG:H	1.83	0.43
46:TH:183:TYR:HA	46:TH:385:PHE:CE1	2.52	0.43
45:TI:268:MET:N	45:TI:268:MET:SD	2.92	0.43
45:TI:318:MET:O	45:TI:375:VAL:HA	2.18	0.43
46:TJ:221:THR:HG23	46:TJ:224:ASP:H	1.82	0.43
45:TK:88:HIS:CE1	45:TK:90:GLU:HG3	2.53	0.43
46:TL:238:CYS:HA	46:TL:241:ARG:NE	2.33	0.43
46:TL:391:ARG:HA	46:TL:391:ARG:HD2	1.78	0.43
46:UB:164:MET:HB3	46:UB:197:ASP:H	1.82	0.43
45:UC:21:TRP:CZ2	45:UC:65:ALA:HB2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UD:72:THR:HG23	46:UD:73:MET:SD	2.58	0.43
45:UE:280:LYS:HD2	45:UE:283:HIS:HB3	1.99	0.43
46:UF:6:HIS:NE2	46:UF:8:GLN:OE1	2.51	0.43
46:UF:320:ARG:NH2	46:UF:321:MET:HA	2.33	0.43
45:UG:288:VAL:HA	45:UG:291:ILE:HG12	2.00	0.43
45:UI:414:GLU:CD	45:UI:416:GLY:H	2.26	0.43
46:UJ:6:HIS:O	46:UJ:63:ALA:HA	2.18	0.43
46:UJ:143:THR:HB	49:UJ:501:GDP:O1B	2.18	0.43
45:UK:68:LEU:HD11	45:UK:118:CYS:SG	2.59	0.43
45:UK:231:ILE:O	45:UK:235:ILE:HG12	2.18	0.43
46:UN:67:ASP:HB3	46:UN:73:MET:HE2	2.01	0.43
45:VA:288:VAL:HG11	45:VA:323:VAL:HG23	2.00	0.43
46:VB:306:ARG:HD2	46:VB:340:TYR:CD1	2.54	0.43
46:VD:200:MET:HG3	46:VD:266:PHE:HB2	1.99	0.43
45:VE:100:ALA:O	46:VF:255:VAL:HG11	2.19	0.43
45:VG:10:GLY:O	45:VG:14:ILE:HG12	2.18	0.43
45:VG:221:ARG:NH2	46:VH:322:SER:C	2.74	0.43
45:VG:345:ASP:OD1	45:VG:439:THR:HG22	2.18	0.43
45:VK:60:LYS:HA	45:VK:60:LYS:HD2	1.81	0.43
45:VK:79:ARG:HH21	45:VK:92:LEU:HB2	1.83	0.43
45:VM:184:PRO:O	45:VM:188:ILE:HG12	2.18	0.43
46:VN:151:LEU:O	46:VN:155:VAL:HG23	2.19	0.43
45:WA:206:ASN:OD1	45:WA:207:GLU:N	2.51	0.43
45:WA:260:VAL:HG13	45:WA:265:ILE:O	2.17	0.43
46:WB:100:ASN:HD22	46:WB:103:LYS:HB2	1.83	0.43
45:WC:68:LEU:HD21	45:WC:118:CYS:HB2	1.99	0.43
46:WD:67:ASP:O	46:WD:92:PHE:HA	2.18	0.43
46:WD:201:VAL:HG23	46:WD:301:CYS:SG	2.58	0.43
45:WE:427:ALA:O	45:WE:430:LYS:HG2	2.18	0.43
45:WI:68:LEU:HD23	45:WI:149:LEU:HD21	2.00	0.43
46:WJ:150:LEU:O	46:WJ:154:LYS:HG2	2.18	0.43
45:WM:107:HIS:HA	45:WM:152:LEU:HD11	2.00	0.43
46:WN:99:ASN:HA	46:WN:142:GLY:H	1.83	0.43
46:WN:391:ARG:HD2	46:WN:391:ARG:HA	1.77	0.43
45:DC:133:GLN:HB3	45:DC:252:ILE:HG21	2.00	0.43
3:0C:38:PRO:HG3	45:EI:279:GLU:OE1	2.18	0.43
4:0D:6:ARG:HH12	46:CB:45:GLU:N	2.16	0.43
4:0D:166:ARG:CG	4:0D:167:ILE:H	2.31	0.43
6:0F:10:TYR:HA	6:0F:13:VAL:HG12	2.00	0.43
6:0F:165:ILE:HD12	6:0F:165:ILE:H	1.83	0.43
1:1A:3:GLN:HB3	26:1W:116:MET:SD	2.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1D:174:TYR:HA	45:EG:79:ARG:NH2	2.33	0.43
17:1F:158:ASN:CG	17:1F:159:THR:H	2.24	0.43
7:1G:114:LYS:HB3	7:1G:117:THR:HG23	2.00	0.43
8:1H:48:LEU:HD21	19:1J:362:ASP:OD1	2.18	0.43
8:1H:135:ARG:O	8:1H:139:ARG:HB2	2.18	0.43
20:1K:79:ARG:HH12	22:1M:358:ASP:HB3	1.82	0.43
21:1L:40:PHE:HB2	21:1L:108:GLN:NE2	2.32	0.43
21:1L:42:LYS:O	21:1L:42:LYS:HD3	2.18	0.43
21:1L:303:GLU:HG2	21:1L:336:ASN:HB2	2.00	0.43
21:1L:707:LYS:HD2	21:1L:707:LYS:O	2.17	0.43
21:1L:888:VAL:HG22	21:1L:889:SER:H	1.83	0.43
22:1M:287:VAL:HG12	22:1M:289:PRO:CD	2.47	0.43
9:1N:78:SER:HB2	9:1N:272:PHE:CE1	2.53	0.43
9:1N:220:THR:HB	9:1N:235:VAL:HG12	2.00	0.43
9:1N:232:GLU:N	9:1N:232:GLU:OE1	2.52	0.43
24:1P:197:ILE:O	24:1P:200:LEU:HB2	2.19	0.43
12:1T:225:SER:H	45:MC:196:GLU:CD	2.21	0.43
13:1U:348:ASN:HB3	13:1U:351:ASN:O	2.19	0.43
14:1V:170:ARG:O	14:1V:173:GLU:HG3	2.18	0.43
26:1W:136:LYS:O	26:1W:140:ILE:HG12	2.17	0.43
15:1X:50:GLU:CD	15:1X:54:ARG:NH1	2.73	0.43
1:2A:27:SER:OG	34:5R:65:LEU:HD11	2.18	0.43
1:2A:149:PRO:C	1:2A:150:LEU:HD12	2.43	0.43
16:2B:45:GLU:OE1	16:2B:47:ASP:N	2.47	0.43
31:2I:211:ASN:O	31:2I:212:THR:HG22	2.18	0.43
20:2K:203:TYR:CE2	20:2K:207:LYS:HE3	2.53	0.43
23:2O:185:ARG:NH2	46:VL:277:GLY:HA2	2.33	0.43
24:2P:386:GLN:HB2	24:2P:390:LYS:NZ	2.32	0.43
24:2P:496:LEU:HA	24:2P:499:GLU:CD	2.43	0.43
25:2R:193:TYR:CD1	45:AG:40:LYS:HG2	2.53	0.43
25:2R:307:GLN:HG2	25:2R:320:ASN:HB2	2.01	0.43
25:2R:312:GLN:OE1	46:CH:358:PRO:HB2	2.18	0.43
12:2T:93:LEU:HD21	12:2T:97:ARG:HE	1.83	0.43
12:2T:115:LYS:HE2	12:2T:175:VAL:HG21	2.00	0.43
13:2U:412:SER:OG	13:2U:455:ILE:O	2.35	0.43
14:2V:133:TYR:CD2	46:LH:421:GLU:HA	2.53	0.43
23:3O:257:GLN:O	23:3O:261:LEU:HG	2.17	0.43
23:3O:343:ALA:HB2	46:UJ:359:LYS:NZ	2.33	0.43
25:3R:300:LYS:HE2	25:3R:300:LYS:HB2	1.77	0.43
11:3S:223:ASP:OD1	11:3S:224:ASN:N	2.51	0.43
10:4Q:66:LYS:HE3	10:4Q:66:LYS:HA	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4Q:76:LEU:HD23	10:4Q:77:VAL:N	2.33	0.43
34:4R:149:GLN:HB3	34:4R:159:TYR:CD1	2.54	0.43
34:4R:527:ASP:OD2	34:4R:529:GLU:HG3	2.18	0.43
35:4S:157:ILE:O	35:4S:161:THR:HG23	2.17	0.43
15:4X:108:LYS:HE2	15:4X:108:LYS:HA	2.01	0.43
37:5E:72:ASP:O	37:5E:104:MET:N	2.51	0.43
34:5R:282:ASP:OD1	34:5R:284:THR:OG1	2.26	0.43
40:6G:230:TYR:OH	45:UE:119:LEU:HG	2.18	0.43
34:6R:152:LYS:HG2	34:6R:160:TYR:CE1	2.53	0.43
34:6R:249:LEU:HA	45:CM:370:LYS:HZ3	1.84	0.43
34:6R:527:ASP:OD2	34:6R:530:TYR:N	2.43	0.43
44:8R:230:TYR:HD2	45:PE:282:TYR:HB2	1.83	0.43
45:AA:265:ILE:HG22	45:AA:380:ASN:HD21	1.83	0.43
46:AF:162:ARG:HA	46:AF:162:ARG:NE	2.33	0.43
46:AH:16:ILE:HD13	46:AH:226:ASN:OD1	2.18	0.43
46:AJ:207:LEU:HB3	46:AJ:225:LEU:HD22	1.99	0.43
45:BA:3:GLU:HG3	45:BA:129:CYS:SG	2.58	0.43
45:BA:372:MET:SD	45:BA:372:MET:N	2.92	0.43
46:BB:1:MET:O	46:BB:2:ARG:HG2	2.18	0.43
46:BF:116:VAL:O	46:BF:120:VAL:HG23	2.18	0.43
45:BM:72:PRO:HA	45:BM:75:ILE:HD13	1.99	0.43
45:BM:356:ASN:OD1	45:BM:357:TYR:N	2.51	0.43
46:BN:16:ILE:HD12	46:BN:229:VAL:HG11	2.00	0.43
46:BN:173:PRO:HG3	46:BN:384:GLN:OE1	2.18	0.43
46:BN:324:LYS:HA	46:BN:327:ASP:OD2	2.19	0.43
46:CB:304:ASP:OD2	46:CB:306:ARG:HG2	2.18	0.43
46:CD:45:GLU:C	46:CD:46:ARG:HD2	2.43	0.43
45:CG:207:GLU:O	45:CG:210:TYR:HB2	2.18	0.43
45:CK:51:THR:O	45:CK:64:ARG:NH1	2.51	0.43
45:CK:210:TYR:CD1	45:CK:227:LEU:HD21	2.53	0.43
45:CK:288:VAL:HA	45:CK:291:ILE:HG22	2.00	0.43
46:CN:167:PHE:CE2	46:CN:233:MET:HG2	2.53	0.43
46:DD:100:ASN:OD1	46:DD:103:LYS:HG2	2.18	0.43
45:DG:223:THR:HG23	45:DG:225:THR:H	1.84	0.43
45:DI:289:ALA:O	45:DI:292:THR:HG22	2.18	0.43
45:DI:356:ASN:OD1	45:DI:357:TYR:N	2.52	0.43
46:DL:39:ASP:OD1	46:DL:40:SER:N	2.52	0.43
45:DM:36:MET:HG3	45:DM:38:SER:H	1.84	0.43
45:DM:229:ARG:NH1	45:DM:363:VAL:HG11	2.33	0.43
46:EB:208:TYR:HA	46:EB:211:CYS:SG	2.58	0.43
46:EB:324:LYS:HD3	45:EC:222:PRO:HG2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EF:154:LYS:HA	46:EF:157:GLU:HG3	2.00	0.43
45:EG:413:MET:HG2	45:EG:417:GLU:HG3	2.00	0.43
46:EH:66:MET:SD	46:EH:147:MET:HE3	2.58	0.43
46:EJ:65:LEU:HD12	46:EJ:90:PHE:CE1	2.53	0.43
46:FD:20:PHE:O	46:FD:24:ILE:HG12	2.17	0.43
46:FF:153:SER:O	46:FF:157:GLU:HG2	2.18	0.43
46:FH:139:LEU:HD12	46:FH:188:SER:OG	2.18	0.43
45:FK:164:LYS:HD2	45:FK:164:LYS:HA	1.83	0.43
46:FL:274:THR:HG21	46:FL:282:ARG:HG3	2.00	0.43
45:GA:121:ARG:HA	45:GA:121:ARG:HD3	1.75	0.43
45:GC:224:TYR:CZ	46:GD:246:LEU:HD11	2.54	0.43
46:GD:112:LEU:O	46:GD:112:LEU:HD23	2.18	0.43
46:GD:343:GLU:N	46:GD:343:GLU:OE2	2.51	0.43
45:GE:324:VAL:HB	45:GE:327:ASP:OD2	2.17	0.43
45:GG:174:SER:HB2	45:GG:177:VAL:O	2.19	0.43
45:GG:387:VAL:HA	45:GG:390:ARG:NH1	2.33	0.43
45:GM:288:VAL:HA	45:GM:291:ILE:HG12	1.99	0.43
46:GN:375:GLN:NE2	46:GN:419:VAL:O	2.52	0.43
46:HD:388:MET:N	46:HD:388:MET:HE2	2.33	0.43
45:HE:261:PRO:HA	46:HH:394:PHE:CD1	2.53	0.43
45:HG:352:LYS:NZ	45:HG:353:VAL:H	2.17	0.43
46:HH:165:GLU:OE2	46:HH:250:LEU:HD23	2.18	0.43
45:HK:257:THR:HG22	46:HN:397:TRP:CE2	2.54	0.43
46:HL:378:PHE:HA	46:HL:381:VAL:HG22	2.00	0.43
45:HM:404:PHE:CE2	46:HN:259:PRO:HA	2.53	0.43
46:HN:379:LYS:O	46:HN:379:LYS:NZ	2.42	0.43
45:IA:88:HIS:HB3	45:IA:91:GLN:CD	2.43	0.43
45:IA:271:SER:HB2	45:IA:377:MET:HB3	1.99	0.43
46:ID:290:THR:HG21	46:ID:329:GLN:HG2	1.99	0.43
45:IG:39:ASP:OD2	45:IG:40:LYS:HG2	2.18	0.43
46:IH:253:LEU:HD12	46:IH:257:LEU:HD11	2.00	0.43
45:II:287:SER:HB3	45:II:290:GLU:HG2	1.99	0.43
46:IL:299:MET:HE3	46:IL:305:PRO:HG3	2.00	0.43
46:IL:403:MET:HE2	46:IL:403:MET:HB2	1.91	0.43
46:IN:45:GLU:HG3	46:IN:46:ARG:HD2	2.00	0.43
46:IN:156:ARG:O	46:IN:156:ARG:HD3	2.18	0.43
46:IN:209:ASP:OD1	46:IN:213:ARG:NE	2.45	0.43
46:JB:391:ARG:HA	46:JB:391:ARG:HD2	1.77	0.43
46:JD:275:SER:OG	46:JD:278:SER:OG	2.29	0.43
45:JE:222:PRO:HD2	46:JF:324:LYS:CE	2.48	0.43
45:JE:413:MET:HA	45:JE:413:MET:HE2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JF:148:GLY:O	46:JF:152:ILE:HG13	2.18	0.43
45:JI:113:GLU:CD	45:JI:113:GLU:H	2.26	0.43
45:JK:53:PHE:HB3	45:JK:61:HIS:HB3	2.00	0.43
45:JK:214:ARG:HD2	45:JK:215:ARG:N	2.32	0.43
45:JK:393:HIS:O	45:JK:397:LEU:HD23	2.18	0.43
46:JN:267:MET:HE1	46:JN:301:CYS:CB	2.47	0.43
45:KC:395:PHE:HZ	45:KC:418:PHE:HB3	1.83	0.43
46:KD:257:LEU:HD21	46:KD:314:SER:OG	2.18	0.43
45:KE:151:SER:O	45:KE:155:GLU:HG3	2.18	0.43
46:KH:257:LEU:HD21	46:KH:314:SER:HB2	2.00	0.43
46:KL:66:MET:HE1	46:KL:147:MET:HB3	2.00	0.43
45:LA:414:GLU:CD	45:LA:416:GLY:H	2.25	0.43
46:LB:50:TYR:HE1	46:LB:134:GLN:HE22	1.64	0.43
46:LB:68:LEU:HG	46:LB:147:MET:HE1	2.00	0.43
46:LD:67:ASP:O	46:LD:92:PHE:HA	2.18	0.43
45:LE:205:ASP:OD2	45:LE:205:ASP:N	2.52	0.43
45:LG:26:LEU:HD11	45:LG:364:PRO:HD2	2.00	0.43
45:LI:181:VAL:HG12	46:LJ:347:ASN:O	2.17	0.43
46:LJ:105:HIS:O	46:LJ:105:HIS:ND1	2.51	0.43
45:LM:141:VAL:HG12	45:LM:171:ILE:O	2.17	0.43
45:LM:316:SER:HB3	45:LM:378:ILE:HB	2.01	0.43
45:ME:324:VAL:HG12	45:ME:326:LYS:HG2	2.00	0.43
45:ME:430:LYS:HA	45:ME:430:LYS:HE2	2.00	0.43
46:MF:387:ALA:HA	46:MF:390:ARG:NH1	2.32	0.43
45:MG:108:TYR:O	45:MG:112:LYS:NZ	2.33	0.43
45:MG:265:ILE:HG22	45:MG:380:ASN:HD21	1.82	0.43
46:MH:73:MET:HE2	46:MH:73:MET:HB3	1.85	0.43
46:MJ:417:ASP:O	46:MJ:421:GLU:HG3	2.19	0.43
45:MK:224:TYR:HE2	46:ML:246:LEU:HD11	1.82	0.43
46:ML:383:GLU:HG3	46:ML:384:GLN:N	2.32	0.43
46:MN:67:ASP:OD1	46:MN:69:GLU:N	2.31	0.43
45:NA:31:GLN:HB2	45:NA:33:ASP:OD1	2.18	0.43
45:NA:345:ASP:N	45:NA:345:ASP:OD1	2.51	0.43
45:NA:414:GLU:HB3	45:NA:417:GLU:OE1	2.18	0.43
46:NB:405:GLU:O	46:NB:409:THR:HG23	2.18	0.43
45:NE:301:MET:HE1	45:NE:377:MET:HE2	1.99	0.43
45:NI:276:ILE:HG21	45:NI:283:HIS:CE1	2.53	0.43
45:NK:10:GLY:O	45:NK:14:ILE:HG12	2.19	0.43
45:NK:209:ILE:HG12	45:NK:302:MET:SD	2.58	0.43
46:NL:407:GLU:O	46:NL:410:GLU:HG3	2.19	0.43
45:NM:62:VAL:HG21	45:NM:88:HIS:HD2	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NM:408:TYR:HB3	45:NM:413:MET:HE3	1.99	0.43
45:NM:420:GLU:HA	45:NM:423:GLU:CD	2.43	0.43
46:NN:154:LYS:HA	46:NN:157:GLU:HG3	2.00	0.43
46:NN:374:ILE:O	46:NN:377:MET:HE3	2.17	0.43
45:OA:279:GLU:HG2	45:OA:280:LYS:HG2	2.00	0.43
45:OA:317:MET:O	45:OA:318:MET:HE2	2.17	0.43
46:OB:403:MET:HE3	46:OB:407:GLU:HG3	1.99	0.43
45:OC:101:ASN:HA	45:OC:144:GLY:H	1.83	0.43
45:OC:107:HIS:O	45:OC:107:HIS:ND1	2.51	0.43
45:OC:434:GLU:O	45:OC:437:ILE:HG22	2.19	0.43
46:OD:175:VAL:HG11	46:OD:208:TYR:HE2	1.82	0.43
45:OG:396:ASP:OD1	45:OG:422:ARG:NH1	2.51	0.43
45:OK:154:LEU:HD12	45:OK:194:LEU:HD22	1.99	0.43
46:OL:117:LEU:HA	46:OL:120:VAL:HG12	1.99	0.43
45:OM:3:GLU:OE2	45:OM:129:CYS:HB3	2.18	0.43
45:OM:224:TYR:HB2	46:ON:245:GLN:NE2	2.34	0.43
45:PA:136:LEU:HD12	45:PA:169:PHE:HE2	1.82	0.43
45:PC:52:PHE:C	45:PC:53:PHE:HD1	2.26	0.43
45:PC:438:GLU:H	45:PC:438:GLU:CD	2.26	0.43
46:PD:290:THR:HA	46:PD:293:MET:HG3	1.99	0.43
45:PE:32:PRO:HB3	45:PE:83:TYR:CE1	2.54	0.43
45:PE:107:HIS:ND1	45:PE:107:HIS:O	2.51	0.43
46:PF:7:ILE:HG12	46:PF:64:ILE:HD13	1.99	0.43
46:PF:21:TRP:CZ3	46:PF:61:PRO:HB3	2.53	0.43
46:PF:44:LEU:HD23	46:PF:47:ILE:HG21	1.99	0.43
46:PF:391:ARG:HD2	46:PF:391:ARG:HA	1.74	0.43
45:PG:73:THR:HG21	46:PH:247:ASN:HD21	1.83	0.43
46:PH:41:ASP:OD1	46:PH:42:LEU:N	2.51	0.43
46:PH:390:ARG:NE	46:PH:390:ARG:HA	2.34	0.43
46:PL:301:CYS:HB3	46:PL:377:MET:HE1	2.00	0.43
45:PM:179:THR:OG1	47:PM:501:GTP:O3'	2.28	0.43
45:PM:212:ILE:HD11	45:PM:300:ASN:HA	2.00	0.43
46:PN:27:GLU:O	46:PN:43:GLN:NE2	2.37	0.43
45:QA:328:VAL:HG11	45:QA:353:VAL:HG21	2.00	0.43
46:QB:114:ASP:N	46:QB:114:ASP:OD2	2.52	0.43
46:QB:379:LYS:O	46:QB:383:GLU:HG2	2.18	0.43
45:QC:174:SER:HB2	45:QC:177:VAL:O	2.18	0.43
45:QC:296:PHE:CE1	45:QC:377:MET:HG3	2.52	0.43
46:QD:238:CYS:SG	46:QD:239:CYS:N	2.91	0.43
45:QE:268:MET:CG	45:QE:380:ASN:HB3	2.48	0.43
46:QF:105:HIS:CD2	46:QF:150:LEU:HB2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QH:66:MET:SD	46:QH:116:VAL:HG21	2.58	0.43
46:QJ:238:CYS:SG	46:QJ:239:CYS:N	2.92	0.43
45:QK:427:ALA:HA	45:QK:430:LYS:HG2	2.00	0.43
45:QM:68:LEU:HD21	45:QM:149:LEU:HD12	2.00	0.43
46:QN:9:GLY:HA2	46:QN:66:MET:O	2.19	0.43
45:RA:293:ASN:O	45:RA:297:GLU:HG3	2.18	0.43
46:RD:91:VAL:HG21	46:RD:116:VAL:HB	2.00	0.43
46:RD:380:ARG:HA	46:RD:383:GLU:HG3	2.00	0.43
46:RF:86:ARG:HH21	46:SF:282:ARG:HB2	1.82	0.43
46:RH:164:MET:H	46:RH:197:ASP:HB2	1.82	0.43
45:RK:287:SER:O	45:RK:291:ILE:HG23	2.17	0.43
46:RL:317:PHE:HB2	46:RL:353:ILE:HD13	1.99	0.43
46:RL:336:LYS:HD2	46:RL:337:ASN:OD1	2.17	0.43
46:SD:309:ARG:HD3	46:SD:342:VAL:HB	2.00	0.43
45:SE:9:VAL:CG2	45:SE:139:ASN:HB3	2.48	0.43
45:SE:232:ALA:HA	45:SE:235:ILE:HG22	2.00	0.43
46:SF:252:LYS:HZ3	46:SF:252:LYS:HG3	1.62	0.43
46:SF:269:GLY:CA	46:SF:293:MET:HE1	2.47	0.43
46:SH:289:LEU:HD11	46:SH:363:MET:HB3	2.01	0.43
45:SI:54:SER:HB3	45:SI:64:ARG:NH2	2.33	0.43
45:SK:223:THR:HG23	45:SK:225:THR:H	1.83	0.43
45:SK:270:SER:HB3	45:SK:378:ILE:HG12	2.00	0.43
45:SK:276:ILE:HG12	45:SK:281:ALA:HA	2.00	0.43
45:SK:429:GLU:O	45:SK:432:TYR:HB2	2.17	0.43
45:SM:229:ARG:HH12	45:SM:366:GLY:CA	2.26	0.43
46:TB:305:PRO:HB2	46:TB:310:TYR:HE1	1.83	0.43
45:TC:242:LEU:HD11	45:TC:252:ILE:HG23	1.99	0.43
45:TE:411:GLU:N	45:TE:411:GLU:OE1	2.51	0.43
45:TG:287:SER:O	45:TG:291:ILE:HG12	2.19	0.43
46:TL:2:ARG:HB3	46:TL:131:GLN:HB2	2.01	0.43
46:TL:102:ALA:HB2	46:TL:398:TYR:HD1	1.83	0.43
45:TM:141:VAL:HG12	45:TM:171:ILE:O	2.19	0.43
45:TM:233:GLN:OE1	45:TM:360:PRO:HB3	2.18	0.43
46:UB:273:LEU:H	46:UB:292:GLN:NE2	2.16	0.43
46:UB:312:THR:HG22	46:UB:370:ASN:HB3	1.99	0.43
46:UD:54:ALA:HB3	46:UD:58:ARG:HG2	2.00	0.43
45:UE:105:ARG:HG3	45:UE:411:GLU:OE1	2.19	0.43
45:UE:207:GLU:HG3	45:UE:304:LYS:HG3	2.00	0.43
45:UG:261:PRO:HA	46:UH:394:PHE:CD1	2.52	0.43
46:UH:70:PRO:HA	46:UH:73:MET:HE2	1.99	0.43
46:UH:154:LYS:O	46:UH:157:GLU:HG3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UJ:6:HIS:CD2	46:UJ:134:GLN:HE21	2.37	0.43
46:UJ:388:MET:HE2	46:UJ:388:MET:N	2.33	0.43
45:UK:258:ASN:CB	45:UK:352:LYS:HD2	2.40	0.43
46:UL:325:GLU:HG2	45:UM:221:ARG:HH11	1.83	0.43
45:VA:254:GLU:O	45:VA:255:PHE:HD1	2.00	0.43
45:VA:331:SER:O	45:VA:335:ILE:HG12	2.19	0.43
45:VA:434:GLU:O	45:VA:437:ILE:HG12	2.17	0.43
46:VB:391:ARG:HD2	46:VB:391:ARG:HA	1.78	0.43
45:VE:164:LYS:HD3	45:VE:164:LYS:HA	1.75	0.43
46:VF:152:ILE:HG23	46:VF:164:MET:HE2	2.00	0.43
46:VF:347:ASN:HD22	46:VF:347:ASN:C	2.27	0.43
45:VI:434:GLU:O	45:VI:437:ILE:HG12	2.18	0.43
45:VK:123:ARG:NH2	45:VK:127:ASP:OD1	2.48	0.43
46:VL:129:CYS:SG	46:VL:131:GLN:NE2	2.89	0.43
45:VM:19:ALA:HA	45:VM:22:GLU:OE1	2.18	0.43
45:VM:141:VAL:HG11	45:VM:172:TYR:CD1	2.53	0.43
45:VM:268:MET:HB2	45:VM:379:SER:O	2.18	0.43
46:VN:211:CYS:O	46:VN:215:LEU:HB2	2.18	0.43
45:WC:55:GLU:CD	45:WC:57:GLY:H	2.25	0.43
46:WF:175:VAL:O	46:WF:175:VAL:HG23	2.18	0.43
46:WJ:121:ARG:HG2	46:WJ:125:GLU:OE1	2.19	0.43
45:WK:8:HIS:HB2	45:WK:67:PHE:CD2	2.52	0.43
46:WL:154:LYS:HA	46:WL:154:LYS:HD3	1.84	0.43
46:WN:94:GLN:N	46:WN:94:GLN:OE1	2.51	0.43
8:0H:394:LEU:HD21	8:1H:66:TYR:HE1	1.82	0.43
1:1A:138:TRP:CZ2	45:AE:81:GLY:HA2	2.53	0.43
16:1B:45:GLU:N	16:1B:45:GLU:OE1	2.50	0.43
16:1B:63:GLN:HE21	16:1B:64:GLU:CD	2.26	0.43
16:1B:72:TYR:HH	16:1B:76:ARG:H	1.66	0.43
7:1G:165:TYR:CD1	7:1G:168:PHE:HD1	2.35	0.43
8:1H:185:ASP:O	8:1H:189:LYS:HG2	2.19	0.43
19:1J:198:ARG:HA	45:IG:370:LYS:HZ2	1.84	0.43
20:1K:238:LYS:O	20:1K:241:LEU:HB2	2.18	0.43
21:1L:175:SER:O	21:1L:179:THR:HG23	2.18	0.43
21:1L:558:LEU:HD11	21:1L:563:PHE:CE1	2.53	0.43
9:1N:8:ARG:CZ	45:JG:285:GLN:HE22	2.31	0.43
9:1N:211:HIS:CE1	9:1N:214:THR:HG23	2.52	0.43
23:1O:270:ASN:OD1	45:UA:282:TYR:CZ	2.72	0.43
24:1P:82:LEU:HG	13:2U:503:SER:CB	2.44	0.43
25:1R:140:LYS:HZ1	25:1R:148:GLN:HB2	1.82	0.43
25:1R:462:LYS:HZ3	25:1R:465:GLU:HA	1.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:1S:103:LYS:O	11:1S:108:LEU:HD11	2.19	0.43
13:1U:60:ILE:HD13	13:1U:105:ILE:HG13	2.00	0.43
13:1U:381:TRP:CD1	13:1U:387:ARG:HH11	2.37	0.43
16:2B:36:PHE:HD2	16:2B:52:LEU:HD12	1.83	0.43
27:2C:7:GLY:HA2	27:2C:10:VAL:HG12	1.99	0.43
4:2D:35:LYS:HE3	4:2D:35:LYS:HB2	1.93	0.43
4:2D:123:SER:OG	4:2D:124:ASN:N	2.52	0.43
4:2D:189:GLN:HB3	4:2D:193:ASN:OD1	2.17	0.43
30:2H:208:ASN:ND2	45:AC:26:LEU:HD21	2.24	0.43
22:2M:19:LEU:HD12	22:2M:20:ILE:H	1.82	0.43
23:2O:134:ASN:HD21	23:2O:137:MET:HE3	1.83	0.43
23:2O:243:GLU:HG3	23:2O:247:GLN:NE2	2.33	0.43
10:2Q:92:GLN:HG2	10:2Q:152:LEU:HB2	2.00	0.43
25:2R:259:LEU:HB3	25:2R:261:PHE:CE1	2.53	0.43
11:2S:94:GLN:OE1	11:2S:94:GLN:N	2.38	0.43
13:2U:117:LEU:HD23	13:2U:132:TRP:HB2	1.99	0.43
26:2W:214:ARG:NH1	27:4C:182:SER:H	2.16	0.43
26:2W:225:ARG:NH1	27:4C:14:ARG:HB3	2.29	0.43
27:3C:117:GLU:OE2	27:3C:119:LYS:HG2	2.19	0.43
32:3D:97:ALA:O	32:3D:101:ILE:HD12	2.18	0.43
25:3R:11:PHE:CD1	15:3X:81:ARG:CZ	3.01	0.43
25:3R:44:VAL:HG12	25:3R:45:VAL:C	2.42	0.43
25:3R:259:LEU:HD13	25:3R:349:THR:HG22	2.00	0.43
12:3T:3:LEU:HD12	12:3T:187:ILE:HA	2.00	0.43
12:3T:92:ASP:HB3	12:3T:95:GLU:OE1	2.19	0.43
12:3T:93:LEU:HD21	12:3T:97:ARG:HE	1.82	0.43
12:3T:106:ILE:HG21	12:3T:213:LEU:HB3	1.99	0.43
12:3T:276:SER:OG	13:3U:352:ARG:NH2	2.47	0.43
13:3U:44:ILE:HD12	13:3U:44:ILE:H	1.82	0.43
13:3U:292:HIS:HB3	13:3U:304:TRP:CE2	2.54	0.43
27:4C:214:VAL:HA	27:4C:217:ILE:HG12	2.01	0.43
33:4F:193:LYS:HZ3	45:IM:220:GLU:H	1.65	0.43
10:4Q:103:PHE:HB3	10:4Q:121:MET:HE1	2.00	0.43
34:4R:54:ILE:HD12	34:4R:54:ILE:H	1.84	0.43
36:5B:63:THR:O	36:5B:64:LYS:HE2	2.17	0.43
36:5B:142:GLN:N	46:NH:320:ARG:HH12	2.17	0.43
37:5F:133:PRO:HB2	37:5F:136:LEU:HG	2.00	0.43
37:5H:123:ARG:NH2	45:OM:371:VAL:O	2.34	0.43
39:6F:26:TRP:O	39:6F:30:ARG:HG3	2.18	0.43
40:6G:164:ASN:HD21	40:6G:172:LEU:HD21	1.83	0.43
34:7R:434:ASN:OD1	46:FB:280:GLN:NE2	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AB:4:ILE:HG13	46:AB:132:GLY:O	2.18	0.43
46:AB:201:VAL:HG12	46:AB:266:PHE:O	2.18	0.43
45:AC:107:HIS:ND1	45:AC:107:HIS:O	2.51	0.43
46:AD:314:SER:HA	46:AD:350:LYS:HB2	2.00	0.43
45:AE:20:CYS:HB2	45:AE:24:PHE:HE2	1.83	0.43
45:AE:212:ILE:HD11	45:AE:300:ASN:HA	1.99	0.43
45:AE:377:MET:SD	45:AE:379:SER:HB3	2.58	0.43
45:AE:387:VAL:HG12	45:AE:390:ARG:HH12	1.83	0.43
45:AG:387:VAL:HG12	45:AG:390:ARG:CZ	2.48	0.43
45:AI:17:GLY:HA2	45:AI:20:CYS:SG	2.58	0.43
46:AL:12:CYS:SG	46:AL:138:SER:HB3	2.59	0.43
45:AM:388:PHE:HB2	45:AM:429:GLU:OE2	2.19	0.43
45:BA:179:THR:HG22	46:BB:350:LYS:NZ	2.34	0.43
45:BC:54:SER:HB3	45:BC:64:ARG:NE	2.34	0.43
45:BC:414:GLU:CD	45:BC:416:GLY:H	2.24	0.43
46:BD:164:MET:SD	46:BD:166:THR:HG23	2.57	0.43
45:BE:404:PHE:CE1	46:BF:259:PRO:HA	2.53	0.43
46:BF:94:GLN:N	46:BF:94:GLN:OE1	2.51	0.43
45:BG:222:PRO:HG2	46:BH:324:LYS:HE2	2.00	0.43
46:BH:178:THR:HB	46:BH:181:GLU:OE2	2.18	0.43
45:BI:7:ILE:HG21	45:BI:153:LEU:HD21	2.01	0.43
46:BL:295:ASP:OD1	46:BL:297:LYS:N	2.46	0.43
46:BN:183:TYR:CZ	46:BN:388:MET:HB3	2.53	0.43
46:CB:248:SER:HA	46:CB:252:LYS:HD2	2.00	0.43
46:CB:317:PHE:HE1	46:CB:326:VAL:HG13	1.84	0.43
45:CG:155:GLU:HG3	45:CG:156:ARG:HH12	1.83	0.43
46:CJ:209:ASP:O	46:CJ:213:ARG:HG2	2.18	0.43
45:CK:18:ASN:O	45:CK:22:GLU:OE1	2.35	0.43
45:CM:171:ILE:HG23	45:CM:204:LEU:O	2.18	0.43
46:CN:5:VAL:HA	46:CN:62:ARG:HG3	2.00	0.43
46:DB:51:TYR:C	46:DB:62:ARG:HH21	2.26	0.43
46:DD:390:ARG:HA	46:DD:390:ARG:NH1	2.33	0.43
45:DG:214:ARG:HH21	45:DG:215:ARG:HG3	1.83	0.43
45:DG:288:VAL:HA	45:DG:291:ILE:HG12	2.00	0.43
45:DI:319:TYR:CE1	45:DI:375:VAL:HB	2.54	0.43
46:DJ:62:ARG:HB2	46:DJ:123:GLU:OE1	2.18	0.43
46:DJ:391:ARG:HA	46:DJ:391:ARG:HD2	1.81	0.43
46:DJ:404:ASP:OD1	46:DJ:407:GLU:HG3	2.19	0.43
46:DL:62:ARG:HB2	46:DL:123:GLU:OE2	2.19	0.43
46:DL:148:GLY:O	46:DL:152:ILE:HG13	2.18	0.43
46:EB:68:LEU:HD12	46:EB:93:GLY:HA3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EE:91:GLN:NE2	45:EE:125:LEU:HD21	2.26	0.43
46:EF:178:THR:HG22	46:EF:180:VAL:H	1.83	0.43
45:EG:206:ASN:OD1	47:EG:501:GTP:N2	2.42	0.43
45:EG:268:MET:HG3	45:EG:380:ASN:HB2	1.99	0.43
46:EH:1:MET:SD	45:EI:72:PRO:HG2	2.58	0.43
46:EH:105:HIS:HD2	46:EH:146:GLY:O	2.01	0.43
46:EJ:122:LYS:HE3	46:FJ:291:GLN:CD	2.44	0.43
46:EJ:337:ASN:OD1	46:EJ:340:TYR:HB2	2.18	0.43
45:EK:338:LYS:HZ3	45:EK:340:THR:HG22	1.82	0.43
45:FA:121:ARG:NH1	45:FA:121:ARG:HA	2.32	0.43
45:FC:263:PRO:HD3	46:FF:396:HIS:CD2	2.52	0.43
45:FC:399:TYR:O	45:FC:402:ARG:NH1	2.51	0.43
46:FD:35:THR:HB	46:FD:37:HIS:HE1	1.84	0.43
46:FD:221:THR:HG23	46:FD:224:ASP:H	1.84	0.43
46:FF:1:MET:O	46:FF:2:ARG:HG2	2.19	0.43
46:FF:22:GLU:HG2	46:FF:81:PHE:CD1	2.53	0.43
46:FF:190:HIS:CD2	46:FF:414:ASN:HD22	2.36	0.43
45:FG:21:TRP:CZ2	45:FG:65:ALA:HB2	2.53	0.43
45:FG:174:SER:HB2	45:FG:177:VAL:O	2.17	0.43
45:FK:21:TRP:CZ2	45:FK:65:ALA:HB2	2.53	0.43
45:FK:245:ASP:OD1	45:FK:245:ASP:N	2.51	0.43
46:FL:192:LEU:HD21	46:FL:199:CYS:HB2	1.99	0.43
45:GA:336:LYS:HD3	45:GA:351:PHE:CE1	2.53	0.43
45:GA:407:TRP:CH2	46:GB:258:ILE:HB	2.52	0.43
46:GB:113:ILE:HD11	46:GB:151:LEU:HB2	2.00	0.43
45:GE:287:SER:HB3	45:GE:290:GLU:OE1	2.19	0.43
45:GE:324:VAL:O	45:GE:327:ASP:HB2	2.19	0.43
46:GH:157:GLU:OE2	46:GH:157:GLU:HA	2.18	0.43
45:GI:98:ASP:OD1	45:GI:99:ALA:N	2.52	0.43
45:GK:233:GLN:HG3	45:GK:368:LEU:HD21	2.00	0.43
45:GM:331:SER:O	45:GM:335:ILE:HG12	2.19	0.43
46:GN:4:ILE:HG13	46:GN:132:GLY:O	2.18	0.43
45:HC:89:PRO:HD3	45:IC:283:HIS:ND1	2.34	0.43
45:HE:346:TRP:CD1	46:HH:391:ARG:HG3	2.54	0.43
46:HF:3:GLU:HG3	46:HF:62:ARG:NH1	2.33	0.43
46:HF:314:SER:HA	46:HF:350:LYS:HB3	1.99	0.43
46:HH:213:ARG:NH2	46:HH:297:LYS:HB3	2.31	0.43
46:HL:306:ARG:HB2	46:HL:340:TYR:CE2	2.53	0.43
45:IA:328:VAL:O	45:IA:332:ILE:HG12	2.19	0.43
46:IB:105:HIS:CE1	46:IB:150:LEU:HD12	2.53	0.43
46:IB:114:ASP:O	46:IB:117:LEU:HG	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:IB:292:GLN:HA	46:IB:295:ASP:OD2	2.18	0.43
45:IC:116:ASP:OD1	45:IC:117:LEU:N	2.51	0.43
45:IC:150:GLY:O	45:IC:154:LEU:HD23	2.19	0.43
46:ID:350:LYS:HD3	46:ID:351:SER:N	2.34	0.43
45:IE:297:GLU:HG2	45:IE:298:PRO:HD2	2.00	0.43
45:II:1:MET:N	45:II:47:ASP:OD2	2.51	0.43
46:IJ:164:MET:N	46:IJ:164:MET:SD	2.92	0.43
45:IK:98:ASP:OD2	45:IK:99:ALA:N	2.50	0.43
46:IL:3:GLU:H	46:IL:3:GLU:CD	2.26	0.43
46:IN:48:ASN:O	46:IN:62:ARG:NH1	2.50	0.43
46:IN:152:ILE:HA	46:IN:164:MET:CE	2.49	0.43
46:IN:359:LYS:HA	46:IN:359:LYS:HD2	1.79	0.43
46:JB:36:TYR:OH	46:JB:40:SER:O	2.34	0.43
46:JB:318:ARG:HE	46:JB:358:PRO:HG3	1.83	0.43
46:JD:1:MET:HE2	46:JD:1:MET:HB2	1.78	0.43
45:JG:56:THR:HG23	45:JG:58:ALA:H	1.83	0.43
45:JI:393:HIS:O	45:JI:397:LEU:HD23	2.18	0.43
45:JM:422:ARG:NH1	45:JM:422:ARG:O	2.52	0.43
46:JN:420:SER:O	46:JN:423:GLN:HG3	2.18	0.43
45:KA:60:LYS:HD3	45:LA:282:TYR:CE1	2.49	0.43
45:KC:177:VAL:HG21	46:KD:327:ASP:HB3	2.00	0.43
46:KF:169:VAL:HG12	46:KF:202:ILE:HG23	2.01	0.43
45:KI:223:THR:HG23	45:KI:225:THR:H	1.82	0.43
46:KJ:324:LYS:O	46:KJ:327:ASP:N	2.51	0.43
46:KN:248:SER:HA	46:KN:252:LYS:HD2	1.99	0.43
45:LA:220:GLU:C	46:LB:324:LYS:HZ1	2.21	0.43
45:LA:260:VAL:HG23	45:LA:265:ILE:O	2.18	0.43
46:LB:230:SER:HA	46:LB:233:MET:HE3	2.01	0.43
46:LD:238:CYS:SG	46:LD:318:ARG:NE	2.91	0.43
45:LE:46:ASP:HB2	45:LE:49:PHE:HE1	1.83	0.43
46:LH:286:VAL:HG23	46:LH:287:PRO:HD3	2.00	0.43
46:LL:67:ASP:O	46:LL:92:PHE:HA	2.18	0.43
46:LL:74:ASP:OD1	46:LL:77:ARG:NH2	2.51	0.43
46:LL:313:ALA:HB1	46:LL:367:PHE:CE1	2.53	0.43
46:LN:238:CYS:SG	46:LN:239:CYS:N	2.92	0.43
46:MB:151:LEU:O	46:MB:155:VAL:HG12	2.19	0.43
46:MD:31:ASP:HB2	46:MD:32:PRO:HD2	1.99	0.43
46:MD:112:LEU:HD22	46:MD:147:MET:HE2	2.00	0.43
45:ME:85:GLN:HA	45:ME:85:GLN:OE1	2.18	0.43
45:ME:175:PRO:HG2	45:ME:176:GLN:OE1	2.19	0.43
46:MF:99:ASN:HA	46:MF:142:GLY:H	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:MH:72:THR:O	46:MH:75:SER:OG	2.29	0.43
45:MI:107:HIS:ND1	45:MI:107:HIS:O	2.52	0.43
45:MI:392:ASP:OD1	45:MI:422:ARG:NE	2.49	0.43
46:MJ:254:ALA:O	46:MJ:258:ILE:HG12	2.17	0.43
45:MK:195:LEU:HD21	45:MK:264:ARG:HD2	2.01	0.43
46:ML:21:TRP:CH2	46:ML:61:PRO:HB3	2.53	0.43
46:MN:10:GLY:O	46:MN:14:ASN:ND2	2.51	0.43
45:NA:75:ILE:HD12	45:NA:75:ILE:H	1.84	0.43
46:NB:4:ILE:HG22	46:NB:132:GLY:N	2.33	0.43
45:NC:222:PRO:HG2	46:ND:324:LYS:HD3	2.00	0.43
46:ND:10:GLY:N	46:ND:67:ASP:OD1	2.42	0.43
46:ND:372:THR:HB	46:ND:426:GLN:NE2	2.28	0.43
45:NE:176:GLN:OE1	45:NE:176:GLN:N	2.52	0.43
45:NG:105:ARG:HG2	45:NG:110:ILE:HG12	2.00	0.43
45:NG:175:PRO:HG2	45:NG:304:LYS:NZ	2.34	0.43
45:NG:326:LYS:HA	46:NJ:208:TYR:HE2	1.83	0.43
45:NG:328:VAL:O	45:NG:332:ILE:HG12	2.18	0.43
45:NI:200:VAL:HG13	45:NI:268:MET:HE2	2.00	0.43
45:NK:220:GLU:O	46:NL:324:LYS:HE3	2.18	0.43
45:NK:222:PRO:HD2	46:NL:324:LYS:HD3	1.99	0.43
46:NN:31:ASP:OD1	46:NN:34:GLY:N	2.51	0.43
46:NN:130:LEU:HD11	46:NN:133:PHE:CE1	2.54	0.43
45:OA:286:LEU:HA	45:OA:290:GLU:OE1	2.18	0.43
46:OD:155:VAL:HA	46:OD:158:GLU:OE2	2.18	0.43
46:OD:221:THR:HG23	46:OD:224:ASP:H	1.83	0.43
45:OE:175:PRO:HA	45:OE:390:ARG:NH1	2.34	0.43
46:OF:417:ASP:O	46:OF:421:GLU:HG3	2.18	0.43
46:OH:111:GLU:OE1	46:OH:111:GLU:N	2.45	0.43
45:OI:138:PHE:HE1	45:OI:169:PHE:CD2	2.36	0.43
45:OI:229:ARG:NH1	45:OI:363:VAL:HG11	2.33	0.43
45:OK:56:THR:HG23	45:OK:58:ALA:H	1.83	0.43
45:OK:287:SER:N	45:OK:290:GLU:OE2	2.38	0.43
46:OL:201:VAL:HG23	46:OL:301:CYS:SG	2.58	0.43
45:OM:24:PHE:O	45:OM:27:GLU:HG2	2.18	0.43
46:ON:203:ASP:OD2	46:ON:302:ALA:N	2.37	0.43
45:PA:427:ALA:HA	45:PA:430:LYS:HG2	2.01	0.43
46:PB:45:GLU:HG3	46:PB:46:ARG:HG2	2.00	0.43
45:PC:181:VAL:HG22	46:PD:256:ASN:OD1	2.19	0.43
45:PG:76:ASP:OD2	46:PH:46:ARG:NH2	2.51	0.43
45:PG:209:ILE:HD11	45:PG:302:MET:HB3	1.99	0.43
46:PH:322:SER:O	46:PH:325:GLU:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PI:434:GLU:O	45:PI:437:ILE:HG12	2.18	0.43
45:PM:122:ILE:HG21	45:PM:157:LEU:HD21	2.00	0.43
45:QA:171:ILE:HG23	45:QA:204:LEU:O	2.19	0.43
45:QA:217:LEU:HG	45:QA:219:ILE:HG13	2.01	0.43
45:QE:346:TRP:CD1	46:QF:391:ARG:HG3	2.53	0.43
45:QG:87:PHE:HB3	45:QG:92:LEU:HD21	2.00	0.43
46:QH:391:ARG:HD2	46:QH:391:ARG:HA	1.83	0.43
45:QI:14:ILE:HD13	45:QI:67:PHE:HB3	2.00	0.43
45:QI:76:ASP:HA	45:QI:79:ARG:HG2	1.99	0.43
45:QI:372:MET:HG2	45:QI:373:ARG:HG3	2.00	0.43
45:QK:319:TYR:CE2	45:QK:375:VAL:HB	2.53	0.43
45:RA:53:PHE:CE2	45:RA:63:PRO:HG3	2.53	0.43
46:RB:46:ARG:NH2	46:RB:243:PRO:HD3	2.33	0.43
46:RB:186:THR:HA	46:RB:189:VAL:HG22	1.99	0.43
45:RE:424:ASP:O	45:RE:428:LEU:HD23	2.18	0.43
46:RH:156:ARG:HH21	46:RH:164:MET:HG2	1.83	0.43
46:RJ:392:LYS:HG3	46:RJ:395:LEU:HD22	2.01	0.43
45:RK:69:ASP:OD1	45:RK:70:LEU:N	2.50	0.43
46:RL:36:TYR:CZ	46:RL:44:LEU:HD21	2.53	0.43
46:RL:288:GLU:OE2	46:RL:291:GLN:NE2	2.52	0.43
46:RL:327:ASP:HA	46:RL:330:MET:HG2	2.01	0.43
46:SB:313:ALA:HB3	46:SB:349:ILE:HG13	2.01	0.43
45:SC:223:THR:HG23	45:SC:225:THR:H	1.82	0.43
45:SE:292:THR:HG21	45:SE:331:SER:HB2	2.00	0.43
46:SH:324:LYS:HZ3	45:SI:214:ARG:HB3	1.81	0.43
45:SI:260:VAL:HB	46:SJ:397:TRP:HZ2	1.82	0.43
46:SJ:6:HIS:HD2	46:SJ:8:GLN:HG2	1.82	0.43
46:SJ:377:MET:HA	46:SJ:380:ARG:HG2	1.99	0.43
45:SK:274:PRO:HG3	45:SK:286:LEU:HD12	2.00	0.43
46:SL:262:ARG:HH21	46:SL:418:LEU:HD22	1.83	0.43
46:SL:265:PHE:C	46:SL:266:PHE:HD2	2.26	0.43
45:SM:14:ILE:HG21	45:SM:74:VAL:HG11	1.99	0.43
45:TA:171:ILE:HG23	45:TA:204:LEU:O	2.18	0.43
46:TB:201:VAL:HG23	46:TB:301:CYS:SG	2.58	0.43
46:TB:282:ARG:HH12	46:TB:288:GLU:CD	2.25	0.43
45:TC:16:VAL:HG12	45:TC:228:ASN:ND2	2.33	0.43
45:TC:430:LYS:HA	45:TC:433:GLU:HG2	2.00	0.43
46:TD:186:THR:O	46:TD:415:MET:HE1	2.18	0.43
45:TE:235:ILE:O	45:TE:238:LEU:HG	2.18	0.43
46:TF:52:ASN:OD1	46:TF:62:ARG:NH2	2.51	0.43
46:TF:293:MET:CE	46:TF:367:PHE:HB2	2.46	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TF:316:LEU:HG	46:TF:352:SER:OG	2.18	0.43
46:TH:282:ARG:NE	46:TH:288:GLU:OE1	2.51	0.43
46:TH:380:ARG:O	46:TH:383:GLU:HG3	2.18	0.43
46:TL:294:PHE:CD2	46:TL:333:VAL:HG11	2.53	0.43
45:UC:150:GLY:O	45:UC:154:LEU:HD23	2.18	0.43
46:UD:109:GLY:HA3	46:UD:147:MET:CE	2.47	0.43
46:UD:322:SER:H	45:UE:221:ARG:CZ	2.31	0.43
45:UE:329:ASN:O	45:UE:332:ILE:HG22	2.18	0.43
45:UG:258:ASN:HB2	45:UG:259:LEU:HD12	1.99	0.43
46:UH:287:PRO:HG3	46:UH:329:GLN:NE2	2.33	0.43
46:UH:325:GLU:HA	46:UH:328:GLU:HG2	2.01	0.43
46:UL:28:HIS:C	46:UL:43:GLN:HE21	2.25	0.43
46:UL:48:ASN:HA	46:UL:51:TYR:O	2.18	0.43
46:UN:121:ARG:O	46:UN:125:GLU:OE1	2.35	0.43
46:VF:232:ALA:HB1	46:VF:268:ILE:HD12	2.00	0.43
45:VG:226:ASN:ND2	45:VG:367:ASP:OD2	2.51	0.43
46:VH:44:LEU:HD22	46:VH:47:ILE:HD13	1.99	0.43
45:VK:115:VAL:HG22	45:VK:119:LEU:HD23	1.99	0.43
45:WC:119:LEU:HD21	45:WC:156:ARG:HB2	1.99	0.43
45:WC:227:LEU:O	45:WC:231:ILE:HG12	2.18	0.43
45:WC:335:ILE:HA	45:WC:338:LYS:HE2	2.01	0.43
45:WE:185:TYR:O	45:WE:189:LEU:HG	2.19	0.43
46:WF:47:ILE:HD12	46:WF:59:TYR:CE1	2.53	0.43
46:WF:150:LEU:HA	46:WF:191:GLN:HE22	1.84	0.43
46:WF:201:VAL:HG22	46:WF:266:PHE:O	2.17	0.43
46:WF:268:ILE:HG22	46:WF:368:VAL:HG22	2.00	0.43
45:WG:68:LEU:HD21	45:WG:118:CYS:HB2	1.99	0.43
45:WI:208:ALA:HB2	45:WI:304:LYS:HG2	1.99	0.43
46:WL:261:PRO:HG2	46:WL:262:ARG:NH1	2.34	0.43
45:CE:426:ALA:O	45:CE:429:GLU:HG2	2.18	0.43
45:DC:39:ASP:N	45:DC:39:ASP:OD1	2.50	0.43
2:0B:46:PHE:CE2	46:JH:77:ARG:HB2	2.51	0.43
2:0B:135:GLN:NE2	9:1N:47:LYS:HE2	2.34	0.43
2:0B:142:HIS:CD2	2:0B:143:LYS:H	2.35	0.43
2:0B:196:LYS:HE2	45:KI:282:TYR:CE2	2.53	0.43
2:0B:208:VAL:HA	2:0B:211:GLN:HE22	1.84	0.43
2:0B:326:VAL:O	2:0B:328:LYS:NZ	2.51	0.43
6:0F:136:ASP:OD1	45:FC:85:GLN:NE2	2.48	0.43
11:0S:275:TYR:CD1	46:WB:122:LYS:HE2	2.53	0.43
12:0T:137:SER:OG	12:0T:140:GLN:OE1	2.37	0.43
4:1D:116:LEU:HD13	4:1D:121:LYS:HE3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1D:218:GLN:CG	4:1D:219:ASN:H	2.08	0.43
8:1H:88:ARG:HA	8:1H:91:GLN:OE1	2.18	0.43
8:1H:297:THR:HA	45:GC:58:ALA:HB1	1.99	0.43
19:1J:116:VAL:O	19:1J:117:GLU:HG3	2.19	0.43
19:1J:201:LYS:NZ	45:IG:285:GLN:O	2.51	0.43
19:1J:388:PHE:HA	19:1J:391:ILE:HD12	1.99	0.43
21:1L:427:ASN:ND2	45:CG:278:ALA:HB3	2.32	0.43
21:1L:622:GLU:CG	21:1L:626:ARG:HH12	2.31	0.43
21:1L:872:MET:HB3	46:CB:362:LYS:NZ	2.34	0.43
22:1M:111:ILE:HG12	22:1M:170:TRP:CZ3	2.52	0.43
23:1O:189:ILE:HA	46:UD:276:ARG:HH22	1.83	0.43
24:1P:201:GLU:HA	24:1P:204:GLU:OE2	2.18	0.43
10:1Q:19:SER:O	10:1Q:20:LYS:HE2	2.18	0.43
25:1R:121:ARG:NH2	25:1R:138:GLU:OE1	2.35	0.43
12:1T:7:PHE:CE1	12:1T:42:HIS:CE1	3.06	0.43
12:1T:285:ARG:HH12	13:1U:51:LEU:HA	1.83	0.43
13:1U:374:GLY:O	14:2V:5:SER:HA	2.18	0.43
13:1U:458:LYS:NZ	13:1U:462:ASP:HB2	2.34	0.43
13:1U:513:LYS:HD3	13:1U:526:ARG:NH1	2.32	0.43
13:1U:542:THR:HG23	13:1U:587:GLN:OE1	2.19	0.43
26:1W:74:ARG:O	26:1W:78:GLN:HG3	2.19	0.43
26:1W:89:ILE:O	26:1W:93:GLU:HG2	2.19	0.43
16:2B:154:LYS:NZ	16:2B:169:TYR:HA	2.33	0.43
27:2C:4:TYR:HB2	46:LJ:359:LYS:HZ2	1.84	0.43
4:2D:84:SER:HA	46:EJ:320:ARG:NH2	2.33	0.43
4:2D:85:VAL:HG23	4:2D:87:GLU:HG3	2.00	0.43
21:2L:309:VAL:HA	21:2L:312:VAL:HG12	2.00	0.43
21:2L:357:ILE:O	34:6R:100:GLN:NE2	2.51	0.43
22:2M:190:ILE:HG21	22:2M:203:CYS:SG	2.58	0.43
23:2O:218:GLU:HB3	23:2O:221:ARG:NH2	2.32	0.43
23:2O:411:LYS:HA	23:2O:414:ILE:HD12	2.01	0.43
24:2P:494:LYS:HG3	24:2P:498:LYS:HZ1	1.83	0.43
11:2S:24:GLN:HE22	13:2U:230:LEU:N	2.00	0.43
11:2S:97:ARG:NE	11:2S:97:ARG:HA	2.32	0.43
11:2S:259:PHE:HD1	11:2S:287:ILE:HG23	1.83	0.43
13:2U:348:ASN:OD1	13:2U:350:ARG:N	2.52	0.43
13:2U:440:VAL:HG22	13:2U:441:MET:H	1.83	0.43
16:3B:17:GLN:OE1	16:3B:60:LEU:HD21	2.18	0.43
16:3B:24:ASP:O	16:3B:176:THR:HG21	2.18	0.43
16:3B:61:THR:HB	16:3B:65:LEU:HB2	2.00	0.43
27:3C:291:VAL:HA	27:3C:294:ILE:HG22	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:3H:171:LEU:CD1	30:3H:176:LYS:HB2	2.42	0.43
21:3L:215:VAL:O	21:3L:215:VAL:HG12	2.17	0.43
23:3O:246:GLU:OE1	46:UN:276:ARG:NH2	2.51	0.43
25:3R:128:TYR:HB2	25:3R:133:SER:OG	2.18	0.43
25:3R:212:ASP:N	25:3R:212:ASP:OD1	2.49	0.43
11:3S:219:LEU:HB3	11:3S:258:ILE:HG13	1.99	0.43
12:3T:269:LYS:HD2	13:3U:315:ARG:HH22	1.82	0.43
13:3U:162:ILE:O	13:3U:172:ILE:HD12	2.18	0.43
13:3U:185:LEU:HD12	13:3U:186:ASP:N	2.34	0.43
34:4R:567:ASN:OD1	34:4R:568:ASP:N	2.52	0.43
35:4S:143:ILE:HG21	35:4S:182:TYR:CD1	2.54	0.43
37:5G:70:GLU:HA	37:5G:71:PRO:HD3	1.90	0.43
34:5R:317:HIS:O	46:CJ:227:HIS:HE1	2.00	0.43
41:6H:344:ASN:C	41:6H:346:LYS:H	2.26	0.43
34:6R:407:LYS:C	46:EN:218:THR:HG21	2.43	0.43
34:7R:470:PHE:CD2	34:7R:471:LEU:HG	2.47	0.43
46:AB:232:ALA:HB1	46:AB:268:ILE:HD12	2.00	0.43
46:AB:310:TYR:HD2	46:AB:371:SER:HB2	1.84	0.43
46:AD:342:VAL:HG13	46:AD:345:ILE:HG22	2.00	0.43
45:AE:324:VAL:CG1	45:AE:326:LYS:HG2	2.48	0.43
45:AE:434:GLU:O	45:AE:437:ILE:HG12	2.18	0.43
46:AF:156:ARG:NH1	46:AF:197:ASP:OD1	2.50	0.43
45:AK:115:VAL:O	45:AK:119:LEU:HD23	2.19	0.43
45:AK:274:PRO:HG3	45:AK:286:LEU:HD12	2.00	0.43
46:AL:150:LEU:HD23	46:AL:154:LYS:HZ2	1.84	0.43
45:AM:164:LYS:HD3	45:AM:165:SER:H	1.84	0.43
45:AM:265:ILE:HG13	45:AM:265:ILE:O	2.18	0.43
46:AN:372:THR:HA	46:AN:422:TYR:HE1	1.82	0.43
46:BB:238:CYS:SG	46:BB:239:CYS:N	2.92	0.43
45:BC:370:LYS:HE2	45:BC:370:LYS:HB2	1.83	0.43
45:BE:3:GLU:HG3	45:BE:129:CYS:SG	2.59	0.43
45:BE:216:ASN:HB3	45:BE:275:ILE:O	2.18	0.43
46:BF:304:ASP:OD2	46:BF:306:ARG:HG2	2.19	0.43
45:BI:201:ALA:HB3	45:BI:267:PHE:CD1	2.53	0.43
45:BI:329:ASN:ND2	46:BL:175:VAL:HG12	2.30	0.43
45:CA:40:LYS:HD2	45:CA:40:LYS:HA	1.74	0.43
45:CA:212:ILE:HD13	45:CA:215:ARG:NH1	2.31	0.43
45:CA:280:LYS:HE3	45:CA:283:HIS:ND1	2.34	0.43
45:CC:296:PHE:HE2	45:CC:335:ILE:HG21	1.83	0.43
46:CD:390:ARG:HH21	46:CD:391:ARG:HD3	1.84	0.43
46:CD:417:ASP:O	46:CD:421:GLU:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CG:101:ASN:HA	45:CG:144:GLY:H	1.83	0.43
45:CG:195:LEU:HD13	45:CG:428:LEU:HD12	1.99	0.43
46:CH:77:ARG:HD2	46:CH:77:ARG:O	2.18	0.43
45:CI:73:THR:OG1	45:CI:74:VAL:N	2.51	0.43
45:CK:66:VAL:HG11	45:CK:122:ILE:HD11	2.00	0.43
46:CL:345:ILE:O	46:CL:345:ILE:HG13	2.19	0.43
45:CM:210:TYR:HE1	45:CM:227:LEU:HD11	1.82	0.43
46:DD:293:MET:HE1	46:DD:315:ALA:CB	2.48	0.43
45:DE:296:PHE:HD2	45:DE:341:ILE:HD13	1.83	0.43
46:DF:135:ILE:HB	46:DF:166:THR:HA	2.01	0.43
45:DG:14:ILE:HD12	45:DG:67:PHE:CD2	2.54	0.43
45:DK:17:GLY:HA2	45:DK:20:CYS:SG	2.59	0.43
45:DK:259:LEU:HD23	45:DK:314:ALA:HB1	1.99	0.43
45:DK:326:LYS:HZ3	46:DL:219:THR:HA	1.83	0.43
45:DM:74:VAL:HG23	45:DM:75:ILE:HD12	2.00	0.43
45:EC:5:ILE:HD11	45:EC:125:LEU:HD13	2.00	0.43
45:EC:338:LYS:HZ2	45:EC:339:ARG:H	1.66	0.43
46:EF:40:SER:OG	46:EF:43:GLN:HG3	2.18	0.43
46:EF:243:PRO:HB3	45:EG:77:GLU:OE2	2.18	0.43
46:EH:312:THR:HG22	46:EH:370:ASN:HB3	2.00	0.43
46:EJ:19:LYS:HZ1	46:EJ:227:HIS:HB2	1.81	0.43
46:EL:8:GLN:HE21	46:EL:65:LEU:CG	2.31	0.43
45:EM:207:GLU:OE1	45:EM:207:GLU:N	2.49	0.43
45:FA:155:GLU:HA	45:FA:197:HIS:CE1	2.53	0.43
45:FA:185:TYR:HE2	45:FA:404:PHE:HB2	1.82	0.43
46:FB:65:LEU:HD22	46:FB:90:PHE:CE1	2.52	0.43
45:FE:417:GLU:HA	45:FE:420:GLU:OE1	2.18	0.43
46:FF:65:LEU:HB3	46:FF:73:MET:SD	2.58	0.43
45:FG:2:ARG:HD2	45:FG:242:LEU:O	2.19	0.43
46:FL:288:GLU:O	46:FL:291:GLN:HG3	2.19	0.43
46:FN:60:VAL:HG11	46:FN:86:ARG:HH21	1.83	0.43
45:GC:52:PHE:CZ	45:GC:239:THR:HG21	2.53	0.43
45:GC:149:LEU:O	45:GC:153:LEU:HD23	2.18	0.43
45:GE:70:LEU:HD13	45:GE:110:ILE:HD12	2.00	0.43
45:GG:221:ARG:NH2	46:GH:320:ARG:HH12	2.16	0.43
45:GG:338:LYS:NZ	45:GG:340:THR:H	2.13	0.43
46:GH:391:ARG:HD2	46:GH:391:ARG:HA	1.73	0.43
45:GM:98:ASP:OD1	45:GM:99:ALA:N	2.51	0.43
45:HA:223:THR:HG23	45:HA:225:THR:H	1.83	0.43
46:HD:391:ARG:HA	46:HD:391:ARG:HD2	1.78	0.43
45:HE:253:THR:O	45:HE:257:THR:HG23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:HE:501:GTP:O1G	46:HF:252:LYS:NZ	2.51	0.43
46:HH:391:ARG:HA	46:HH:391:ARG:HD2	1.80	0.43
45:HK:271:SER:HA	45:HK:302:MET:HE2	2.00	0.43
46:HL:216:LYS:HB2	46:HL:216:LYS:HE3	1.87	0.43
45:HM:89:PRO:HD3	45:IM:280:LYS:HE2	2.01	0.43
46:HN:1:MET:HE3	46:HN:2:ARG:H	1.83	0.43
46:HN:178:THR:HG22	46:HN:180:VAL:H	1.83	0.43
45:IA:195:LEU:HD21	45:IA:264:ARG:HE	1.82	0.43
46:ID:123:GLU:OE1	46:ID:123:GLU:HA	2.18	0.43
45:IG:5:ILE:HB	45:IG:135:PHE:CD1	2.53	0.43
45:IG:248:LEU:HD12	45:IG:355:ILE:HD12	1.98	0.43
45:II:329:ASN:HB3	46:IL:175:VAL:HG12	2.00	0.43
46:IJ:226:ASN:ND2	49:IJ:501:GDP:HN1	2.14	0.43
46:IL:293:MET:HE3	46:IL:294:PHE:CD1	2.54	0.43
46:IN:304:ASP:OD2	46:IN:306:ARG:HG2	2.18	0.43
45:JA:89:PRO:HB2	45:KA:280:LYS:HE3	1.98	0.43
45:JE:68:LEU:HD11	45:JE:118:CYS:SG	2.58	0.43
45:JE:90:GLU:HG2	45:KE:280:LYS:HZ2	1.84	0.43
45:KC:276:ILE:HD11	45:KC:280:LYS:HG3	2.00	0.43
46:KH:5:VAL:HA	46:KH:62:ARG:HG3	2.00	0.43
46:KJ:295:ASP:OD1	46:KJ:296:ALA:N	2.52	0.43
46:KL:9:GLY:HA3	46:KL:66:MET:HG3	2.00	0.43
46:KL:181:GLU:HG3	46:KL:182:PRO:HD3	2.01	0.43
45:KM:309:HIS:CD2	45:NM:282:TYR:HE1	2.37	0.43
45:LA:122:ILE:HG22	45:LA:123:ARG:HH21	1.82	0.43
45:LC:31:GLN:HG2	45:LC:35:GLN:O	2.17	0.43
45:LC:384:ILE:O	45:LC:387:VAL:HG22	2.19	0.43
45:LK:206:ASN:HB3	45:LK:210:TYR:HE2	1.80	0.43
45:LK:324:VAL:HG23	45:LK:327:ASP:H	1.83	0.43
46:LL:378:PHE:HD2	46:LL:415:MET:HE3	1.83	0.43
45:LM:343:PHE:CZ	45:LM:351:PHE:HE1	2.36	0.43
46:LN:286:VAL:N	46:LN:287:PRO:HD2	2.34	0.43
45:MA:384:ILE:HD11	45:MA:432:TYR:OH	2.19	0.43
46:MB:164:MET:O	46:MB:197:ASP:HB2	2.18	0.43
46:MD:282:ARG:HH12	46:MD:292:GLN:NE2	2.17	0.43
45:ME:200:VAL:HG13	45:ME:268:MET:CE	2.48	0.43
45:ME:321:GLY:HA3	45:ME:372:MET:O	2.18	0.43
45:MG:115:VAL:HG21	45:MG:152:LEU:HD22	2.01	0.43
45:MG:345:ASP:OD2	45:MG:346:TRP:N	2.51	0.43
46:MH:386:THR:O	46:MH:390:ARG:HG3	2.18	0.43
46:MJ:42:LEU:HA	46:MJ:45:GLU:OE1	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MK:11:GLN:HG3	45:MK:74:VAL:HG11	2.00	0.43
46:ML:267:MET:HG3	46:ML:299:MET:HE2	2.00	0.43
45:NA:79:ARG:O	45:NA:84:ARG:HB3	2.18	0.43
45:NA:288:VAL:HA	45:NA:291:ILE:HG22	2.01	0.43
46:NB:45:GLU:OE1	46:NB:46:ARG:HG3	2.18	0.43
46:NB:376:GLU:OE1	46:NB:376:GLU:N	2.50	0.43
45:NC:4:VAL:HB	45:NC:52:PHE:HE1	1.84	0.43
45:NE:185:TYR:HE1	45:NE:398:MET:HB3	1.83	0.43
46:NH:72:THR:HB	46:NH:73:MET:HE2	2.00	0.43
46:NH:257:LEU:HA	46:NH:312:THR:HG21	1.99	0.43
46:NH:359:LYS:HE2	46:NH:359:LYS:HA	1.99	0.43
45:NK:222:PRO:HD2	46:NL:324:LYS:CE	2.48	0.43
46:NL:313:ALA:HB1	46:NL:367:PHE:HE1	1.83	0.43
45:NM:175:PRO:HD3	45:NM:205:ASP:OD1	2.18	0.43
46:OB:130:LEU:O	46:OB:162:ARG:NH2	2.51	0.43
45:OC:32:PRO:HB3	45:OC:83:TYR:CE1	2.54	0.43
46:OD:181:GLU:OE2	46:OD:181:GLU:HA	2.19	0.43
46:OD:290:THR:HA	46:OD:293:MET:HG3	2.01	0.43
45:OE:167:LEU:HD13	45:OE:200:VAL:HB	2.00	0.43
46:OF:55:THR:HG23	46:PF:283:ALA:HA	2.01	0.43
45:OG:387:VAL:O	45:OG:391:LEU:HD23	2.19	0.43
46:OJ:188:SER:O	46:OJ:192:LEU:HD23	2.19	0.43
46:OJ:233:MET:HE2	46:OJ:233:MET:HB3	1.85	0.43
45:OM:205:ASP:OD1	45:OM:303:ALA:HA	2.17	0.43
46:ON:86:ARG:HA	46:PN:281:TYR:CD1	2.54	0.43
46:PB:91:VAL:HG21	46:PB:116:VAL:HB	2.00	0.43
45:PC:261:PRO:HA	46:PF:394:PHE:CD2	2.53	0.43
46:PD:209:ASP:CB	46:PD:213:ARG:HH22	2.31	0.43
45:PE:154:LEU:HD22	45:PE:166:LYS:HD3	2.01	0.43
46:PF:150:LEU:O	46:PF:154:LYS:HG2	2.18	0.43
45:PI:1:MET:SD	45:PI:2:ARG:HD3	2.59	0.43
45:PK:222:PRO:O	46:PL:322:SER:HB2	2.17	0.43
45:PK:334:THR:O	45:PK:338:LYS:HG2	2.18	0.43
46:PL:8:GLN:HG3	46:PL:14:ASN:HD22	1.83	0.43
45:QA:345:ASP:CG	46:QB:390:ARG:HH22	2.25	0.43
45:QA:434:GLU:O	45:QA:437:ILE:HG12	2.18	0.43
46:QB:347:ASN:C	46:QB:347:ASN:HD22	2.26	0.43
45:QC:64:ARG:HA	45:QC:125:LEU:HD11	2.00	0.43
46:QD:200:MET:HE1	46:QD:266:PHE:HD2	1.83	0.43
45:QG:269:LEU:HD12	45:QG:303:ALA:HB3	2.00	0.43
45:QI:136:LEU:HD12	45:QI:169:PHE:CE2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QK:88:HIS:O	45:QK:91:GLN:HG3	2.18	0.43
45:QK:419:SER:O	45:QK:422:ARG:N	2.52	0.43
45:QM:229:ARG:HH12	45:QM:363:VAL:HG21	1.84	0.43
46:QN:293:MET:HE1	46:QN:317:PHE:CZ	2.54	0.43
46:RB:68:LEU:HD23	46:RB:97:ALA:HB2	2.01	0.43
46:RD:138:SER:HA	46:RD:169:VAL:HG23	2.01	0.43
46:RD:167:PHE:CE1	46:RD:200:MET:HB2	2.54	0.43
46:RF:167:PHE:CZ	46:RF:233:MET:HG3	2.54	0.43
45:RG:12:GLY:HA2	45:RG:15:GLN:NE2	2.33	0.43
46:RH:244:GLY:HA3	46:RH:354:CYS:HA	2.00	0.43
45:RI:223:THR:HG23	45:RI:225:THR:H	1.84	0.43
46:RJ:222:TYR:CD1	46:RJ:225:LEU:HD21	2.53	0.43
46:RJ:317:PHE:CD1	46:RJ:365:VAL:HG22	2.54	0.43
45:RK:10:GLY:O	45:RK:14:ILE:HG12	2.17	0.43
45:RK:263:PRO:HD3	46:RL:396:HIS:NE2	2.33	0.43
45:RM:326:LYS:HD3	46:RN:212:PHE:CZ	2.54	0.43
45:SA:268:MET:HB2	45:SA:379:SER:O	2.18	0.43
46:SB:266:PHE:HD1	46:SB:368:VAL:HG12	1.84	0.43
46:SD:408:PHE:O	46:SD:411:ALA:HB3	2.19	0.43
45:SE:324:VAL:HG23	45:SE:327:ASP:HB2	2.00	0.43
46:SH:164:MET:O	46:SH:197:ASP:HB2	2.18	0.43
46:SL:213:ARG:NH1	46:SL:297:LYS:HB3	2.33	0.43
46:SL:345:ILE:HG23	46:SL:348:ASN:HD22	1.84	0.43
46:TB:322:SER:O	45:TC:221:ARG:NH1	2.51	0.43
45:TC:120:ASP:O	45:TC:124:LYS:HG2	2.17	0.43
46:TD:178:THR:HG22	46:TD:180:VAL:H	1.84	0.43
46:TD:319:GLY:O	46:TD:355:ASP:HA	2.19	0.43
45:TE:188:ILE:HG21	45:TE:422:ARG:NH2	2.33	0.43
45:TK:134:GLY:C	45:TK:135:PHE:HD2	2.25	0.43
45:TK:331:SER:O	45:TK:335:ILE:HG12	2.19	0.43
46:TL:19:LYS:HA	46:TL:19:LYS:HE3	2.01	0.43
46:TL:22:GLU:HG2	46:TL:81:PHE:CE2	2.53	0.43
46:TL:73:MET:SD	46:TL:92:PHE:HB3	2.59	0.43
45:UE:275:ILE:HG23	45:UE:368:LEU:HD11	2.01	0.43
45:UE:351:PHE:C	45:UE:352:LYS:HE2	2.44	0.43
46:UJ:117:LEU:O	46:UJ:121:ARG:HG2	2.18	0.43
45:UK:409:VAL:HA	45:UK:413:MET:HB2	1.99	0.43
46:UL:278:SER:O	46:UL:282:ARG:HG3	2.19	0.43
45:UM:18:ASN:O	45:UM:22:GLU:OE1	2.37	0.43
45:UM:432:TYR:HA	45:UM:435:VAL:HG22	2.00	0.43
45:VA:72:PRO:HB2	46:VB:1:MET:HE1	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VA:297:GLU:HB3	45:VA:300:ASN:ND2	2.34	0.43
46:VB:11:GLN:HA	46:VB:14:ASN:HD22	1.83	0.43
45:VC:287:SER:O	45:VC:290:GLU:HG2	2.18	0.43
46:VD:330:MET:HE2	46:VD:330:MET:HA	1.99	0.43
45:VE:171:ILE:HG13	45:VE:204:LEU:HB2	1.99	0.43
45:VE:174:SER:HA	45:VE:205:ASP:OD2	2.19	0.43
46:VF:22:GLU:HG2	46:VF:81:PHE:CD1	2.54	0.43
46:VF:257:LEU:HD11	46:VF:314:SER:HB2	2.00	0.43
45:VG:1:MET:HE3	45:VG:131:GLY:HA3	2.00	0.43
45:VG:17:GLY:HA2	45:VG:20:CYS:SG	2.57	0.43
45:VI:221:ARG:HD2	46:VJ:322:SER:OG	2.19	0.43
45:VI:386:GLU:OE1	45:VI:387:VAL:HG13	2.17	0.43
45:VK:244:PHE:HB2	45:VK:356:ASN:HD21	1.84	0.43
45:VK:258:ASN:CG	45:VK:352:LYS:HE3	2.44	0.43
46:VL:372:THR:HA	46:VL:422:TYR:CE2	2.46	0.43
46:VN:226:ASN:ND2	49:VN:501:GDP:HN1	2.13	0.43
46:VN:389:PHE:HZ	46:VN:405:GLU:HG2	1.84	0.43
45:WA:172:TYR:CD1	45:WA:173:PRO:HD2	2.54	0.43
46:WB:77:ARG:HG3	46:WB:78:ALA:N	2.34	0.43
45:WC:326:LYS:HZ2	46:WF:219:THR:HA	1.83	0.43
45:WC:419:SER:O	45:WC:423:GLU:OE1	2.36	0.43
46:WD:123:GLU:OE1	46:WD:123:GLU:HA	2.17	0.43
46:WD:186:THR:HA	46:WD:189:VAL:HG12	2.00	0.43
46:WD:286:VAL:HA	46:WD:289:LEU:HB2	2.00	0.43
46:WH:211:CYS:SG	46:WH:220:PRO:HB3	2.58	0.43
45:WI:9:VAL:HG13	45:WI:139:ASN:HB3	2.01	0.43
45:WK:117:LEU:O	45:WK:121:ARG:HG2	2.18	0.43
46:WL:167:PHE:CE2	46:WL:200:MET:HG3	2.54	0.43
46:WN:153:SER:O	46:WN:156:ARG:N	2.52	0.43
45:DC:192:HIS:ND1	45:DC:424:ASP:OD2	2.44	0.43
1:0A:17:GLN:NE2	34:7R:46:GLU:O	2.33	0.43
7:0G:114:LYS:O	7:0G:117:THR:OG1	2.32	0.43
9:0N:153:THR:HB	9:0N:180:ASN:HB3	1.99	0.43
9:0N:250:ILE:HD13	45:KK:1:MET:SD	2.58	0.43
1:1A:118:LYS:NZ	45:AC:357:TYR:OH	2.34	0.43
16:1B:217:LYS:HG3	16:1B:261:CYS:SG	2.59	0.43
5:1E:25:ARG:HB3	5:1E:167:TYR:CE1	2.54	0.43
7:1G:45:MET:O	7:1G:46:LYS:HG2	2.19	0.43
7:1G:71:ASN:HA	7:1G:74:VAL:HG22	2.00	0.43
7:1G:96:TYR:HA	7:1G:98:LYS:HG2	2.01	0.43
7:1G:163:ARG:HA	45:KA:245:ASP:OD2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:1H:202:GLU:O	8:1H:205:GLU:HG3	2.19	0.43
8:1H:353:ILE:C	8:1H:357:LYS:HZ2	2.27	0.43
18:1I:71:ASN:HB2	18:1I:76:ARG:HH22	1.83	0.43
19:1J:49:ARG:HG3	46:HD:53:GLU:OE2	2.18	0.43
21:1L:42:LYS:HD2	21:1L:44:ILE:HD11	2.00	0.43
21:1L:660:LYS:HG3	21:1L:698:ARG:HB2	1.99	0.43
21:1L:905:THR:HG22	21:1L:908:GLN:OE1	2.19	0.43
21:1L:929:ASP:O	21:1L:933:LYS:HD3	2.18	0.43
22:1M:105:GLY:HA3	22:1M:255:ASP:HB3	2.01	0.43
9:1N:304:ASN:OD1	9:1N:305:LYS:N	2.52	0.43
12:1T:219:GLU:O	12:1T:223:ARG:HG2	2.19	0.43
13:1U:194:ARG:HG3	13:1U:218:PHE:CE1	2.52	0.43
26:1W:247:ARG:NH2	26:1W:251:ARG:HH22	2.12	0.43
15:1X:75:LEU:HD12	46:MF:280:GLN:NE2	2.32	0.43
16:2B:132:ARG:HG3	16:2B:137:HIS:HB2	1.99	0.43
16:2B:239:PHE:CE2	16:2B:258:LYS:HD3	2.54	0.43
27:2C:3:LEU:O	27:2C:3:LEU:HD12	2.18	0.43
27:2C:213:ILE:O	27:2C:217:ILE:HD12	2.18	0.43
27:2C:249:LEU:HD23	27:2C:285:ILE:HB	1.99	0.43
4:2D:73:GLY:O	4:2D:76:VAL:HG22	2.18	0.43
4:2D:210:MET:HE1	5:2E:135:GLY:CA	2.48	0.43
5:2E:96:ARG:HD3	5:2E:181:PHE:CD2	2.54	0.43
20:2K:392:VAL:O	20:2K:396:GLN:OE1	2.36	0.43
21:2L:279:VAL:HG12	21:2L:352:PHE:HZ	1.84	0.43
21:2L:521:LYS:HB3	21:2L:521:LYS:HE3	1.86	0.43
21:2L:617:ARG:NH1	21:2L:692:GLU:O	2.51	0.43
21:2L:625:ARG:HH21	21:2L:688:MET:HE3	1.83	0.43
23:2O:436:GLU:OE2	23:2O:439:LYS:HE3	2.19	0.43
24:2P:478:TRP:HA	24:2P:481:ARG:HE	1.80	0.43
25:2R:224:PHE:CG	46:BJ:80:PRO:HG3	2.53	0.43
13:2U:83:ASP:OD2	13:2U:97:ARG:NH2	2.50	0.43
13:2U:323:ILE:HD12	13:2U:323:ILE:H	1.84	0.43
13:2U:527:MET:HE1	13:2U:565:GLY:CA	2.48	0.43
14:2V:106:TYR:OH	45:LE:192:HIS:O	2.35	0.43
14:2V:111:SER:O	14:2V:111:SER:OG	2.31	0.43
14:2V:224:GLN:HB3	46:VH:77:ARG:HH21	1.84	0.43
16:3B:111:ARG:HD3	16:3B:111:ARG:H	1.83	0.43
27:3C:112:ASP:OD1	27:3C:167:ARG:NH2	2.44	0.43
32:3D:186:LYS:O	32:3D:190:HIS:HB2	2.19	0.43
5:3E:86:CYS:SG	5:3E:89:ARG:NH2	2.63	0.43
12:3T:213:LEU:HA	12:3T:218:PHE:CE2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:3X:138:LYS:HA	15:3X:138:LYS:HD3	1.82	0.43
33:4F:125:ASN:HD22	46:IL:245:GLN:CD	2.26	0.43
35:4S:209:ARG:NH2	46:WD:118:ASP:HB2	2.26	0.43
36:5B:62:PRO:O	36:5B:63:THR:OG1	2.31	0.43
36:5C:134:VAL:O	36:5C:134:VAL:HG13	2.18	0.43
37:5E:67:ARG:HA	37:5E:68:PRO:HD3	1.80	0.43
37:5E:122:PHE:C	37:5E:124:TYR:H	2.27	0.43
37:5F:9:TYR:CD1	37:5F:10:PRO:HD3	2.54	0.43
10:5Q:79:ILE:O	10:5Q:80:ILE:HD13	2.19	0.43
34:5R:430:LEU:HD12	34:5R:502:ARG:O	2.18	0.43
34:5R:437:ASP:HB2	34:5R:440:ARG:HE	1.83	0.43
35:5S:81:HIS:HB3	45:WE:163:LYS:NZ	2.33	0.43
40:6G:245:SER:O	46:VD:340:TYR:OH	2.34	0.43
40:6G:303:MET:HE1	46:VB:306:ARG:HB2	2.01	0.43
34:6R:360:TYR:HB3	34:6R:366:LEU:O	2.18	0.43
45:AA:51:THR:HG22	45:AA:52:PHE:CD2	2.53	0.43
45:AA:411:GLU:N	45:AA:411:GLU:OE1	2.52	0.43
46:AB:163:ILE:HD11	46:AB:251:ARG:HG3	2.01	0.43
46:AD:135:ILE:HB	46:AD:166:THR:HG22	2.00	0.43
46:AF:107:THR:HG23	46:AF:108:GLU:HG3	2.00	0.43
45:AG:141:VAL:HG12	45:AG:171:ILE:O	2.19	0.43
45:AG:172:TYR:CE1	45:AG:203:MET:HE1	2.53	0.43
45:AI:75:ILE:HG21	45:AI:94:SER:HB2	2.00	0.43
45:AI:231:ILE:O	45:AI:235:ILE:HG12	2.19	0.43
45:AI:334:THR:O	45:AI:338:LYS:HG2	2.19	0.43
45:AM:244:PHE:CE1	45:AM:358:GLN:HG3	2.53	0.43
45:BG:101:ASN:HA	45:BG:144:GLY:N	2.33	0.43
45:BK:3:GLU:OE2	45:BK:129:CYS:HB3	2.19	0.43
46:BL:350:LYS:HD3	46:BL:351:SER:N	2.33	0.43
45:BM:288:VAL:HA	45:BM:291:ILE:HG12	2.01	0.43
46:CB:206:ALA:O	46:CB:210:ILE:HG12	2.18	0.43
46:CB:256:ASN:HB3	46:CB:350:LYS:CE	2.48	0.43
46:CB:374:ILE:O	46:CB:377:MET:HG2	2.18	0.43
46:CD:31:ASP:OD1	46:CD:35:THR:N	2.43	0.43
45:CG:175:PRO:HB2	45:CG:176:GLN:OE1	2.18	0.43
46:CH:335:ASN:OD1	46:CH:336:LYS:N	2.51	0.43
45:CI:434:GLU:O	45:CI:437:ILE:HG22	2.18	0.43
45:CK:2:ARG:NE	45:CK:2:ARG:HA	2.33	0.43
45:CK:10:GLY:O	45:CK:14:ILE:HG12	2.18	0.43
45:CM:268:MET:SD	45:CM:380:ASN:HB2	2.59	0.43
46:CN:86:ARG:HB2	46:DN:281:TYR:CD2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DE:164:LYS:HD3	45:DE:164:LYS:HA	1.88	0.43
45:DG:349:THR:O	46:DH:179:VAL:HG23	2.18	0.43
45:DI:11:GLN:CD	45:DI:11:GLN:H	2.26	0.43
45:DI:103:PHE:HD2	45:DI:413:MET:HE1	1.83	0.43
46:DJ:156:ARG:HD2	46:DJ:164:MET:HE1	2.01	0.43
46:DL:258:ILE:O	46:DL:258:ILE:HG13	2.19	0.43
46:DL:324:LYS:NZ	45:DM:210:TYR:CE1	2.85	0.43
46:DL:347:ASN:ND2	45:DM:178:SER:OG	2.45	0.43
46:DN:312:THR:HG22	46:DN:370:ASN:HB3	2.00	0.43
46:EB:22:GLU:HA	46:EB:81:PHE:HD2	1.83	0.43
45:EC:207:GLU:HA	45:EC:210:TYR:CD2	2.54	0.43
45:EC:331:SER:O	45:EC:335:ILE:HG12	2.19	0.43
45:EE:31:GLN:HG3	45:EE:33:ASP:OD1	2.19	0.43
46:EF:16:ILE:HD13	46:EF:226:ASN:OD1	2.18	0.43
46:EF:288:GLU:O	46:EF:291:GLN:HG3	2.19	0.43
46:EH:313:ALA:HB1	46:EH:367:PHE:HE1	1.83	0.43
45:EI:75:ILE:HG23	45:EI:92:LEU:HB3	2.00	0.43
46:EJ:178:THR:HB	46:EJ:181:GLU:HG3	2.01	0.43
46:EJ:204:ASN:HD22	46:EJ:204:ASN:HA	1.62	0.43
45:EK:317:MET:HB3	45:EK:377:MET:SD	2.59	0.43
45:EK:370:LYS:HA	45:EK:370:LYS:HD2	1.91	0.43
46:EL:282:ARG:NE	46:EL:282:ARG:HA	2.33	0.43
46:EN:67:ASP:OD1	46:EN:68:LEU:N	2.50	0.43
46:FB:248:SER:HA	46:FB:252:LYS:HD2	2.00	0.43
46:FD:31:ASP:OD2	46:FD:33:THR:OG1	2.36	0.43
45:FE:336:LYS:HD3	45:FE:351:PHE:HE1	1.83	0.43
46:FJ:284:LEU:HD21	46:FJ:363:MET:H	1.83	0.43
45:FK:346:TRP:HZ3	46:FN:393:ALA:HA	1.83	0.43
46:FL:293:MET:HE1	46:FL:315:ALA:CB	2.48	0.43
45:FM:407:TRP:HH2	46:FN:258:ILE:HB	1.84	0.43
45:GA:105:ARG:HH12	46:GB:251:ARG:HE	1.65	0.43
45:GA:276:ILE:HD13	45:GA:286:LEU:HD11	2.00	0.43
45:GA:340:THR:HG23	45:GA:341:ILE:HD12	2.01	0.43
46:GB:58:ARG:NH2	46:HB:281:TYR:HA	2.32	0.43
45:GC:118:CYS:O	45:GC:122:ILE:HG12	2.19	0.43
46:GD:382:ALA:O	46:GD:386:THR:HG22	2.18	0.43
45:GE:419:SER:O	45:GE:423:GLU:HG2	2.19	0.43
46:GF:330:MET:SD	46:GF:349:ILE:HG21	2.57	0.43
45:GG:209:ILE:HG23	45:GG:227:LEU:HD22	2.00	0.43
45:GK:212:ILE:HD11	45:GK:300:ASN:HA	2.01	0.43
46:GL:67:ASP:OD1	46:GL:69:GLU:N	2.38	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GM:318:MET:SD	45:GM:354:GLY:HA3	2.58	0.43
45:HC:153:LEU:HD23	45:HC:153:LEU:HA	1.81	0.43
46:HD:133:PHE:CD2	46:HD:164:MET:HE1	2.50	0.43
45:HE:269:LEU:HD23	45:HE:384:ILE:HD13	2.00	0.43
46:HF:131:GLN:OE1	46:HF:131:GLN:HA	2.19	0.43
45:HG:196:GLU:CD	45:HG:196:GLU:H	2.27	0.43
46:HH:5:VAL:HG12	46:HH:62:ARG:HD3	2.00	0.43
46:HH:318:ARG:HH11	46:HH:358:PRO:HG3	1.83	0.43
46:HJ:279:GLN:HE21	46:HJ:279:GLN:C	2.26	0.43
46:HL:347:ASN:C	46:HL:347:ASN:HD22	2.24	0.43
45:IC:356:ASN:OD1	45:IC:357:TYR:N	2.51	0.43
45:IG:90:GLU:OE1	45:IG:121:ARG:NE	2.52	0.43
45:IG:167:LEU:HD22	45:IG:200:VAL:HB	2.01	0.43
45:IK:384:ILE:O	45:IK:387:VAL:HG22	2.19	0.43
46:IL:391:ARG:HA	46:IL:391:ARG:HD2	1.78	0.43
45:JC:88:HIS:HB3	45:JC:91:GLN:HG2	2.00	0.43
45:JC:238:LEU:HG	45:JC:318:MET:HE1	1.99	0.43
45:JE:180:ALA:HB3	45:JE:183:GLU:HB3	1.99	0.43
45:JI:177:VAL:HG23	46:JJ:327:ASP:HB2	1.99	0.43
46:JJ:52:ASN:OD1	46:JJ:62:ARG:NH2	2.52	0.43
46:JJ:175:VAL:HG13	46:JJ:205:GLU:OE2	2.19	0.43
45:JK:21:TRP:CH2	45:JK:63:PRO:HB3	2.53	0.43
46:JN:341:PHE:HD1	46:JN:348:ASN:HD21	1.67	0.43
45:KA:398:MET:HE2	45:KA:404:PHE:CD2	2.53	0.43
45:KA:406:HIS:CE1	46:KB:261:PRO:HD3	2.53	0.43
46:KB:181:GLU:HG3	46:KB:182:PRO:HD3	2.01	0.43
45:KC:229:ARG:NH1	45:KC:365:GLY:O	2.52	0.43
45:KE:11:GLN:NE2	47:KE:501:GTP:O1B	2.52	0.43
45:KE:214:ARG:HD2	45:KE:214:ARG:C	2.44	0.43
45:KE:251:ASP:OD2	45:KE:252:ILE:N	2.51	0.43
46:KF:420:SER:O	46:KF:424:GLN:HG2	2.19	0.43
45:KI:22:GLU:HG3	45:KI:83:TYR:OH	2.17	0.43
45:KK:223:THR:HG23	45:KK:225:THR:H	1.84	0.43
46:KL:238:CYS:SG	46:KL:318:ARG:HD3	2.59	0.43
46:KL:407:GLU:HA	46:KL:410:GLU:CG	2.48	0.43
46:LB:310:TYR:CD2	46:LB:371:SER:HB2	2.53	0.43
45:LC:41:THR:HG22	45:LC:41:THR:O	2.19	0.43
45:LG:19:ALA:O	45:LG:22:GLU:HG3	2.18	0.43
45:LG:287:SER:HB3	45:LG:290:GLU:OE1	2.19	0.43
46:LH:270:PHE:HD2	46:LH:273:LEU:HD21	1.82	0.43
45:LI:227:LEU:O	45:LI:231:ILE:HG12	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LL:8:GLN:OE1	46:LL:17:GLY:HA3	2.18	0.43
45:MC:184:PRO:O	45:MC:188:ILE:HG12	2.19	0.43
45:MC:287:SER:O	45:MC:291:ILE:HG23	2.19	0.43
46:MD:1:MET:O	46:MD:2:ARG:HG2	2.18	0.43
46:MD:302:ALA:HB3	46:MD:377:MET:HE1	1.99	0.43
45:ME:56:THR:HG23	45:ME:58:ALA:H	1.84	0.43
46:MJ:293:MET:HE1	46:MJ:315:ALA:CB	2.48	0.43
46:ML:183:TYR:O	46:ML:187:LEU:HG	2.19	0.43
46:ML:386:THR:OG1	46:ML:390:ARG:NH2	2.52	0.43
45:NA:56:THR:HG23	45:NA:58:ALA:H	1.83	0.43
45:NA:224:TYR:CD1	47:NA:501:GTP:C6	3.05	0.43
46:NB:414:ASN:O	46:NB:418:LEU:HD23	2.18	0.43
45:NC:22:GLU:HG2	45:NC:83:TYR:OH	2.18	0.43
45:NE:200:VAL:HG13	45:NE:268:MET:CE	2.48	0.43
45:NG:9:VAL:HG13	45:NG:139:ASN:HB3	2.00	0.43
46:NH:230:SER:HA	46:NH:233:MET:HE3	2.00	0.43
45:NI:167:LEU:HD22	45:NI:200:VAL:HB	2.01	0.43
45:NK:8:HIS:CD2	45:NK:17:GLY:HA3	2.54	0.43
45:NM:183:GLU:N	45:NM:184:PRO:HD2	2.33	0.43
45:NM:237:SER:HA	45:NM:320:ARG:HH11	1.84	0.43
45:OC:352:LYS:HZ3	46:OF:179:VAL:H	1.66	0.43
45:OI:231:ILE:O	45:OI:235:ILE:HG12	2.19	0.43
45:OK:141:VAL:HG22	45:OK:187:SER:HA	2.01	0.43
45:OK:262:TYR:OH	46:ON:391:ARG:O	2.24	0.43
46:OL:32:PRO:HA	46:OL:84:LEU:HD21	2.01	0.43
45:PC:434:GLU:O	45:PC:437:ILE:HG12	2.18	0.43
46:PD:19:LYS:HE2	46:PD:227:HIS:HA	2.01	0.43
45:PE:10:GLY:O	45:PE:14:ILE:HG12	2.19	0.43
46:PH:66:MET:HE2	46:PH:116:VAL:HG11	2.00	0.43
45:PI:107:HIS:ND1	45:PI:107:HIS:O	2.52	0.43
46:PJ:205:GLU:HG2	46:PJ:206:ALA:N	2.33	0.43
46:PJ:371:SER:O	46:PJ:422:TYR:OH	2.29	0.43
45:PK:268:MET:HB2	45:PK:379:SER:O	2.18	0.43
46:PL:344:TRP:HE3	46:PL:345:ILE:HG23	1.82	0.43
45:PM:88:HIS:HB3	45:PM:91:GLN:CG	2.49	0.43
45:PM:207:GLU:O	45:PM:210:TYR:HB2	2.17	0.43
46:PN:22:GLU:HG2	46:PN:81:PHE:HB2	1.99	0.43
45:QC:88:HIS:HE1	45:QC:90:GLU:HB3	1.83	0.43
46:QH:65:LEU:HD22	46:QH:90:PHE:HE1	1.84	0.43
45:QI:175:PRO:HB2	45:QI:176:GLN:OE1	2.18	0.43
46:QL:49:VAL:HG21	46:QL:241:ARG:HG2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QM:31:GLN:HG3	45:QM:37:PRO:HD3	2.01	0.43
46:QN:282:ARG:NH2	46:QN:292:GLN:OE1	2.46	0.43
46:RF:45:GLU:OE1	46:RF:45:GLU:N	2.39	0.43
46:RF:46:ARG:NH2	45:RG:76:ASP:OD2	2.48	0.43
46:RF:317:PHE:CD1	46:RF:365:VAL:HG22	2.54	0.43
46:RH:384:GLN:OE1	46:RH:384:GLN:HA	2.19	0.43
46:RL:375:GLN:O	46:RL:379:LYS:HG2	2.19	0.43
45:RM:105:ARG:HD2	45:RM:105:ARG:HA	1.88	0.43
45:RM:329:ASN:HB3	46:RN:175:VAL:HG12	2.00	0.43
45:SA:292:THR:HG21	45:SA:331:SER:HB3	2.00	0.43
45:SC:107:HIS:ND1	45:SC:107:HIS:O	2.51	0.43
45:SC:243:ARG:HG3	45:SC:244:PHE:CD2	2.54	0.43
46:SD:27:GLU:HA	46:SD:359:LYS:HD2	2.00	0.43
46:SD:238:CYS:SG	46:SD:239:CYS:N	2.92	0.43
46:SD:285:THR:OG1	46:SD:288:GLU:HG3	2.18	0.43
46:SD:374:ILE:HG12	46:SD:378:PHE:CE1	2.54	0.43
46:SF:174:LYS:HE2	46:SF:205:GLU:CG	2.43	0.43
45:SG:203:MET:CE	45:SG:267:PHE:HB3	2.47	0.43
46:SH:238:CYS:SG	46:SH:239:CYS:N	2.91	0.43
45:SK:88:HIS:O	45:SK:91:GLN:HG2	2.18	0.43
45:SK:399:TYR:HB3	45:SK:422:ARG:NH2	2.32	0.43
45:SM:90:GLU:HG2	45:SM:121:ARG:NH1	2.34	0.43
45:TC:123:ARG:NH2	45:TC:161:TYR:OH	2.51	0.43
45:TC:196:GLU:CD	45:TC:196:GLU:H	2.27	0.43
45:TE:151:SER:O	45:TE:154:LEU:N	2.52	0.43
45:TE:338:LYS:HA	45:TE:338:LYS:HD2	1.84	0.43
46:TF:286:VAL:HB	46:TF:325:GLU:HG2	2.01	0.43
46:TF:350:LYS:HA	45:TG:179:THR:O	2.19	0.43
45:TG:292:THR:HG21	45:TG:331:SER:HB3	2.00	0.43
45:TG:377:MET:HE1	45:TG:379:SER:HB3	2.00	0.43
46:TH:66:MET:HE1	46:TH:151:LEU:HD21	2.00	0.43
45:TI:205:ASP:OD1	45:TI:303:ALA:HA	2.18	0.43
46:TJ:315:ALA:HB1	46:TJ:317:PHE:HE2	1.83	0.43
45:TK:11:GLN:HE21	47:TK:501:GTP:PB	2.42	0.43
45:TK:75:ILE:HD12	45:TK:75:ILE:H	1.82	0.43
46:TL:143:THR:OG1	46:TL:147:MET:HE3	2.18	0.43
45:TM:109:THR:HG21	45:TM:411:GLU:HB2	2.00	0.43
46:TN:238:CYS:SG	46:TN:239:CYS:N	2.92	0.43
46:UB:245:GLN:NE2	45:UC:15:GLN:OE1	2.51	0.43
45:UC:2:ARG:O	45:UC:51:THR:HA	2.19	0.43
45:UC:320:ARG:HB2	45:UC:358:GLN:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UD:108:GLU:O	46:UD:111:GLU:HG3	2.18	0.43
45:UE:414:GLU:HG2	45:UE:415:GLU:OE2	2.18	0.43
46:UH:130:LEU:HB3	46:UH:162:ARG:HD3	2.00	0.43
46:UH:182:PRO:O	46:UH:183:TYR:C	2.61	0.43
46:UH:406:MET:O	46:UH:410:GLU:HG3	2.19	0.43
45:UK:56:THR:HG23	45:UK:58:ALA:H	1.84	0.43
45:UK:108:TYR:CD1	45:UK:413:MET:HE1	2.53	0.43
45:UK:292:THR:HG21	45:UK:331:SER:HB3	1.99	0.43
46:UL:406:MET:O	46:UL:410:GLU:HG3	2.18	0.43
45:UM:83:TYR:N	45:UM:84:ARG:HH11	2.16	0.43
46:UN:180:VAL:HA	46:UN:183:TYR:CD1	2.54	0.43
46:VB:190:HIS:O	46:VB:193:VAL:HG12	2.18	0.43
46:VB:239:CYS:SG	46:VB:247:ASN:HA	2.58	0.43
45:VC:210:TYR:CE2	46:VD:324:LYS:HE3	2.54	0.43
45:VC:297:GLU:CD	45:VC:299:ALA:H	2.26	0.43
46:VD:221:THR:OG1	46:VD:222:TYR:N	2.51	0.43
46:VH:16:ILE:HD13	46:VH:226:ASN:OD1	2.19	0.43
45:VI:276:ILE:HD11	45:VI:280:LYS:HD2	2.01	0.43
46:VJ:145:SER:HB2	46:VJ:188:SER:HB3	2.00	0.43
45:VK:398:MET:HE2	46:VL:346:PRO:HD2	2.00	0.43
46:VL:65:LEU:HD22	46:VL:90:PHE:CE1	2.54	0.43
45:VM:372:MET:HE3	45:VM:373:ARG:NH2	2.34	0.43
45:WC:173:PRO:O	45:WC:390:ARG:NH2	2.46	0.43
46:WD:171:PRO:HG3	46:WD:185:ALA:HB2	2.01	0.43
45:WE:387:VAL:HA	45:WE:390:ARG:HG2	1.99	0.43
46:WH:247:ASN:O	46:WH:252:LYS:NZ	2.50	0.43
45:WI:67:PHE:HB2	45:WI:92:LEU:HD13	2.00	0.43
45:WI:251:ASP:H	45:WI:254:GLU:HB2	1.83	0.43
46:WJ:238:CYS:SG	46:WJ:239:CYS:N	2.92	0.43
45:WK:51:THR:HG23	45:WK:52:PHE:CD2	2.53	0.43
46:WL:380:ARG:HH21	46:WL:383:GLU:CD	2.25	0.43
46:WN:66:MET:HE2	46:WN:147:MET:HE2	2.01	0.43
45:CE:217:LEU:HB3	45:CE:219:ILE:HG12	2.00	0.43
45:CE:288:VAL:HG21	45:CE:327:ASP:CB	2.46	0.43
45:DC:21:TRP:CE3	45:DC:24:PHE:HD2	2.35	0.43
45:DC:155:GLU:O	45:DC:158:SER:OG	2.29	0.43
45:DC:301:MET:HE3	45:DC:301:MET:HB2	1.96	0.43
1:0A:135:SER:C	46:AB:320:ARG:HH22	2.26	0.43
4:0D:166:ARG:HD3	4:0D:167:ILE:N	2.33	0.43
5:0E:29:ARG:HE	5:0E:32:ARG:HH22	1.67	0.43
6:0F:206:LYS:HB3	6:0F:211:LEU:HD21	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:0Q:39:ASP:OD2	10:0Q:129:TRP:NE1	2.42	0.43
15:0X:49:ILE:HG12	45:MA:282:TYR:CD2	2.53	0.43
16:1B:350:SER:HB2	16:1B:386:LYS:HB2	1.99	0.43
4:1D:192:ALA:O	4:1D:195:ARG:HG2	2.19	0.43
5:1E:81:PHE:O	5:1E:84:PHE:HB3	2.19	0.43
21:1L:151:ARG:HD2	46:CH:360:GLY:H	1.84	0.43
21:1L:215:VAL:O	21:1L:215:VAL:HG12	2.18	0.43
9:1N:99:ALA:HB1	9:1N:172:SER:OG	2.18	0.43
9:1N:343:LEU:HD23	9:1N:380:TYR:CD2	2.54	0.43
24:1P:234:ILE:O	24:1P:237:LEU:HG	2.19	0.43
24:1P:276:THR:O	24:1P:280:ASN:HB2	2.18	0.43
24:1P:289:GLU:O	24:1P:292:GLU:HG3	2.19	0.43
10:1Q:48:GLU:OE2	10:1Q:161:ARG:HG2	2.19	0.43
26:1W:243:ILE:O	26:1W:247:ARG:HG3	2.19	0.43
15:1X:58:MET:HE3	15:1X:58:MET:HB3	1.79	0.43
15:1X:83:MET:N	34:4R:47:GLU:OE2	2.52	0.43
4:2D:224:ARG:NH1	34:5R:582:TYR:HB3	2.34	0.43
5:2E:183:GLN:O	5:2E:187:ILE:HG12	2.19	0.43
21:2L:567:ILE:HD13	21:2L:579:VAL:HG21	2.01	0.43
23:2O:371:GLU:HA	23:2O:374:ARG:HG2	2.00	0.43
10:2Q:15:TYR:O	10:2Q:21:PRO:HB3	2.19	0.43
25:2R:235:PHE:CZ	46:CH:216:LYS:HG3	2.54	0.43
12:2T:71:THR:OG1	12:2T:72:PHE:N	2.50	0.43
12:2T:138:ILE:HD12	12:2T:138:ILE:H	1.84	0.43
12:2T:228:PRO:O	12:2T:229:THR:OG1	2.37	0.43
13:2U:194:ARG:HD3	13:2U:194:ARG:HA	1.79	0.43
13:2U:458:LYS:NZ	13:2U:462:ASP:H	2.17	0.43
13:2U:492:LEU:HB2	13:2U:510:SER:HB2	2.00	0.43
16:3B:42:GLY:O	16:3B:43:ARG:NH2	2.52	0.43
16:3B:90:ARG:NH2	16:3B:168:GLU:OE2	2.29	0.43
25:3R:374:ILE:O	25:3R:376:LYS:NZ	2.44	0.43
13:3U:187:VAL:HA	13:3U:225:ALA:HB1	2.00	0.43
13:3U:217:VAL:HG22	13:3U:232:PRO:HD3	2.00	0.43
34:4R:296:GLY:HA3	46:DF:276:ARG:HB3	1.98	0.43
35:4S:70:ASP:OD2	35:4S:71:ARG:N	2.52	0.43
36:5B:32:ALA:O	36:5B:34:PHE:N	2.51	0.43
36:5B:65:THR:HG23	36:5B:68:ASP:H	1.82	0.43
36:5B:126:ILE:HD12	36:5B:126:ILE:H	1.83	0.43
39:6F:41:TYR:HB3	39:6F:56:LEU:HD12	2.00	0.43
10:6Q:74:PRO:HB3	10:6Q:148:TYR:CZ	2.53	0.43
34:6R:330:SER:N	34:6R:333:ASP:OD2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:6R:383:GLN:HE22	46:DN:83:GLN:HG3	1.84	0.43
45:AE:105:ARG:NH1	46:AF:251:ARG:HD3	2.33	0.43
45:AE:201:ALA:HB3	45:AE:267:PHE:HD1	1.82	0.43
45:AI:88:HIS:ND1	45:AI:90:GLU:HG2	2.33	0.43
45:AI:224:TYR:HE2	46:AJ:246:LEU:HD11	1.82	0.43
46:AJ:6:HIS:NE2	46:AJ:8:GLN:OE1	2.52	0.43
46:AJ:286:VAL:CG2	46:AJ:287:PRO:HD3	2.48	0.43
45:AK:322:ASP:OD1	45:AK:373:ARG:NH1	2.52	0.43
46:AL:184:ASN:OD1	46:AL:185:ALA:N	2.52	0.43
46:AL:213:ARG:HE	46:AL:213:ARG:HB3	1.57	0.43
46:AN:293:MET:HA	46:AN:298:ASN:ND2	2.34	0.43
45:BA:416:GLY:O	45:BA:419:SER:OG	2.34	0.43
45:BC:390:ARG:NH1	45:BC:390:ARG:HG3	2.34	0.43
46:BD:107:THR:OG1	46:BD:401:GLU:OE2	2.21	0.43
46:BD:174:LYS:HD3	46:BD:174:LYS:N	2.34	0.43
45:BK:222:PRO:HG2	46:BL:324:LYS:HE3	2.00	0.43
45:BK:326:LYS:HZ3	46:BN:208:TYR:HB3	1.84	0.43
45:BM:77:GLU:HA	45:BM:80:THR:HG22	2.01	0.43
46:BN:7:ILE:HB	46:BN:135:ILE:HD12	2.00	0.43
46:BN:66:MET:N	46:BN:73:MET:HE1	2.33	0.43
46:CB:6:HIS:O	46:CB:63:ALA:HA	2.19	0.43
45:CC:252:ILE:HA	45:CC:255:PHE:CD1	2.54	0.43
46:CF:64:ILE:HA	46:CF:89:ASN:HB3	2.01	0.43
46:CF:186:THR:HA	46:CF:189:VAL:HG12	2.00	0.43
46:CF:345:ILE:O	46:CF:345:ILE:HG13	2.19	0.43
45:CG:121:ARG:HA	45:CG:121:ARG:NH1	2.33	0.43
45:CG:275:ILE:HA	45:CG:368:LEU:HD11	2.00	0.43
45:CG:276:ILE:HD11	45:CG:280:LYS:HG3	2.01	0.43
46:CH:58:ARG:C	46:CH:59:TYR:HD2	2.27	0.43
45:CK:297:GLU:CD	45:CK:298:PRO:HD2	2.44	0.43
46:CL:6:HIS:O	46:CL:63:ALA:HA	2.18	0.43
46:CL:148:GLY:O	46:CL:152:ILE:HG13	2.18	0.43
46:CL:222:TYR:HA	46:CL:225:LEU:HG	2.01	0.43
46:CL:343:GLU:OE2	46:CL:344:TRP:HD1	2.02	0.43
46:CN:22:GLU:HG2	46:CN:81:PHE:CD2	2.53	0.43
46:DF:55:THR:HG23	46:EF:283:ALA:HA	2.01	0.43
45:DG:171:ILE:HG22	45:DG:204:LEU:O	2.18	0.43
46:DH:273:LEU:N	46:DH:292:GLN:OE1	2.38	0.43
45:DK:75:ILE:HD12	45:DK:75:ILE:H	1.83	0.43
45:DM:172:TYR:CD2	45:DM:203:MET:HE1	2.54	0.43
45:EA:317:MET:HE2	45:EA:319:TYR:CE1	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EB:6:HIS:HB3	46:EB:21:TRP:HZ2	1.83	0.43
46:EB:20:PHE:HA	46:EB:230:SER:HB3	1.99	0.43
45:EC:153:LEU:O	45:EC:157:LEU:HD23	2.18	0.43
45:EC:326:LYS:HD2	45:EC:326:LYS:HA	1.81	0.43
46:EF:362:LYS:HE2	46:EF:362:LYS:HB2	1.80	0.43
45:EG:73:THR:O	45:EG:77:GLU:OE1	2.36	0.43
45:EG:200:VAL:HG13	45:EG:268:MET:HE2	2.00	0.43
46:EH:200:MET:HE1	46:EH:266:PHE:HD1	1.83	0.43
46:EH:213:ARG:HH21	46:EH:297:LYS:CE	2.32	0.43
45:EK:184:PRO:O	45:EK:188:ILE:HG12	2.18	0.43
46:EN:21:TRP:CH2	46:EN:61:PRO:HB3	2.54	0.43
46:EN:178:THR:HG22	46:EN:180:VAL:H	1.83	0.43
45:FA:33:ASP:HB2	45:FA:35:GLN:HE22	1.84	0.43
46:FB:105:HIS:CE1	46:FB:150:LEU:HD12	2.54	0.43
46:FD:143:THR:HG23	46:FD:144:GLY:N	2.34	0.43
46:FH:409:THR:O	46:FH:412:GLU:HG3	2.19	0.43
46:FL:175:VAL:HG23	46:FL:175:VAL:O	2.18	0.43
46:FL:262:ARG:NH1	46:FL:421:GLU:HG3	2.34	0.43
45:GA:221:ARG:NH1	46:GB:325:GLU:HB3	2.34	0.43
45:GA:315:CYS:SG	45:GA:377:MET:HE2	2.59	0.43
46:GB:61:PRO:CD	46:GB:84:LEU:HB3	2.49	0.43
45:GK:22:GLU:HG3	45:GK:83:TYR:CE2	2.53	0.43
45:GK:141:VAL:HG12	45:GK:171:ILE:O	2.19	0.43
46:GN:215:LEU:O	46:GN:216:LYS:HG3	2.18	0.43
45:HA:269:LEU:HD11	45:HA:384:ILE:HD13	2.00	0.43
45:HC:3:GLU:OE2	45:HC:131:GLY:N	2.52	0.43
46:HD:274:THR:HG23	46:HD:279:GLN:OE1	2.18	0.43
46:HF:109:GLY:HA2	46:HF:147:MET:HE3	2.00	0.43
46:HL:26:ASP:O	46:HL:359:LYS:NZ	2.35	0.43
46:HL:133:PHE:HB2	46:HL:164:MET:HE1	2.00	0.43
46:HL:190:HIS:CD2	46:HL:414:ASN:HD22	2.37	0.43
46:HL:286:VAL:HB	46:HL:325:GLU:OE1	2.19	0.43
45:HM:223:THR:HG23	45:HM:225:THR:H	1.82	0.43
46:HN:1:MET:HE3	46:HN:2:ARG:N	2.33	0.43
46:HN:33:THR:HA	46:HN:83:GLN:NE2	2.34	0.43
46:HN:205:GLU:HG2	46:HN:206:ALA:N	2.34	0.43
45:IA:119:LEU:HA	45:IA:122:ILE:HG12	2.01	0.43
46:IB:28:HIS:HA	46:IB:43:GLN:OE1	2.18	0.43
45:IC:257:THR:HA	46:IF:397:TRP:CZ3	2.54	0.43
45:IC:286:LEU:HA	45:IC:290:GLU:OE1	2.19	0.43
45:IE:237:SER:HA	45:IE:320:ARG:HH21	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IG:317:MET:O	45:IG:318:MET:HE2	2.18	0.43
45:IG:417:GLU:HA	45:IG:420:GLU:OE2	2.17	0.43
46:IH:36:TYR:CE1	46:IH:44:LEU:HD11	2.54	0.43
45:IM:179:THR:HG22	46:IN:350:LYS:NZ	2.33	0.43
45:IM:294:SER:O	45:IM:300:ASN:ND2	2.30	0.43
45:JG:40:LYS:HZ2	45:JG:42:ILE:HD13	1.84	0.43
46:JH:213:ARG:HH12	46:JH:297:LYS:HB3	1.84	0.43
46:JH:267:MET:HE1	46:JH:305:PRO:HG3	2.01	0.43
46:JH:342:VAL:HG13	46:JH:345:ILE:HG22	1.99	0.43
45:JI:326:LYS:HA	46:JL:208:TYR:HE1	1.83	0.43
45:JK:35:GLN:N	45:JK:35:GLN:OE1	2.52	0.43
45:JK:149:LEU:O	45:JK:153:LEU:HD23	2.19	0.43
45:JM:88:HIS:HB3	45:JM:91:GLN:CD	2.44	0.43
46:JN:212:PHE:CD1	46:JN:213:ARG:HD2	2.54	0.43
46:JN:267:MET:CE	46:JN:299:MET:HB3	2.42	0.43
45:KA:430:LYS:O	45:KA:434:GLU:HG2	2.18	0.43
46:KB:297:LYS:HA	46:KB:297:LYS:HD2	1.70	0.43
46:KD:282:ARG:HH22	46:KD:292:GLN:HE22	1.66	0.43
46:KD:329:GLN:O	46:KD:333:VAL:HG12	2.18	0.43
46:KH:69:GLU:HA	46:KH:70:PRO:HD3	1.80	0.43
45:KK:71:GLU:HA	45:KK:72:PRO:HD3	1.88	0.43
45:KK:88:HIS:ND1	45:KK:90:GLU:HG2	2.34	0.43
45:KK:426:ALA:O	45:KK:430:LYS:HG3	2.18	0.43
45:KM:2:ARG:HD2	45:KM:242:LEU:O	2.19	0.43
45:KM:56:THR:O	45:LM:285:GLN:HG2	2.18	0.43
45:LA:265:ILE:HG22	45:LA:432:TYR:CE2	2.54	0.43
46:LB:31:ASP:OD2	46:LB:33:THR:OG1	2.36	0.43
45:LC:274:PRO:HG3	45:LC:286:LEU:HD12	2.00	0.43
46:LD:207:LEU:HB3	46:LD:225:LEU:HD22	2.00	0.43
45:LE:387:VAL:HG12	45:LE:390:ARG:NH2	2.33	0.43
46:LF:310:TYR:CD2	46:LF:371:SER:HB2	2.54	0.43
46:LH:138:SER:HA	46:LH:169:VAL:HB	2.01	0.43
45:LI:395:PHE:CD2	45:LI:422:ARG:HD3	2.53	0.43
46:LJ:309:ARG:H	46:LJ:372:THR:HG22	1.84	0.43
45:LM:328:VAL:O	45:LM:332:ILE:HG23	2.19	0.43
46:LN:341:PHE:CE1	46:LN:349:ILE:HD11	2.54	0.43
45:MA:151:SER:O	45:MA:155:GLU:OE1	2.36	0.43
46:MB:289:LEU:HD13	46:MB:365:VAL:HG23	2.00	0.43
46:MH:183:TYR:HA	46:MH:385:PHE:CE1	2.54	0.43
46:MJ:190:HIS:CD2	46:MJ:411:ALA:HA	2.54	0.43
45:MK:163:LYS:HE2	45:MK:163:LYS:HB2	1.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:MN:381:VAL:CG1	46:MN:415:MET:HE1	2.48	0.43
45:NA:121:ARG:HA	45:NA:121:ARG:NH1	2.34	0.43
45:NC:8:HIS:CD2	45:NC:17:GLY:HA3	2.53	0.43
45:NC:417:GLU:HA	45:NC:420:GLU:CD	2.42	0.43
46:ND:317:PHE:CE2	46:ND:326:VAL:HG13	2.54	0.43
45:NE:346:TRP:O	46:NH:391:ARG:NH1	2.37	0.43
46:NF:190:HIS:CD2	46:NF:411:ALA:HA	2.54	0.43
46:NJ:6:HIS:O	46:NJ:63:ALA:HA	2.19	0.43
45:NK:19:ALA:O	45:NK:22:GLU:HG2	2.18	0.43
46:NL:27:GLU:OE2	46:NL:318:ARG:NH2	2.51	0.43
45:OA:352:LYS:HE2	46:OD:178:THR:HA	2.00	0.43
45:OC:50:ASN:O	45:OC:64:ARG:NH1	2.52	0.43
45:OC:70:LEU:HB3	45:OC:98:ASP:HA	2.00	0.43
45:OC:271:SER:OG	45:OC:301:MET:HA	2.19	0.43
46:OF:100:ASN:HB3	46:OF:103:LYS:HB3	2.01	0.43
46:OF:113:ILE:HA	46:OF:116:VAL:HG12	2.01	0.43
46:OF:233:MET:O	46:OF:236:VAL:HG12	2.19	0.43
45:OI:8:HIS:CD2	45:OI:138:PHE:HD2	2.37	0.43
45:OI:88:HIS:CD2	45:PI:280:LYS:HZ1	2.36	0.43
45:OK:115:VAL:HG11	45:OK:152:LEU:HD23	2.00	0.43
45:OK:317:MET:SD	45:OK:353:VAL:HG12	2.59	0.43
45:OK:320:ARG:NH2	45:OK:358:GLN:OE1	2.45	0.43
45:OK:387:VAL:O	45:OK:391:LEU:HD23	2.19	0.43
46:OL:285:THR:HG22	46:OL:288:GLU:CD	2.43	0.43
46:OL:361:LEU:HD23	46:OL:361:LEU:HA	1.83	0.43
45:OM:21:TRP:CZ3	45:OM:52:PHE:HD1	2.37	0.43
45:OM:51:THR:HG22	45:OM:52:PHE:HD2	1.83	0.43
45:OM:214:ARG:NH2	45:OM:220:GLU:OE2	2.52	0.43
45:OM:389:SER:O	45:OM:393:HIS:ND1	2.52	0.43
46:PD:239:CYS:SG	46:PD:247:ASN:HA	2.58	0.43
45:PE:192:HIS:ND1	45:PE:424:ASP:OD2	2.52	0.43
46:PF:258:ILE:HG13	46:PF:266:PHE:HZ	1.83	0.43
45:PG:34:GLY:O	45:PG:60:LYS:HA	2.19	0.43
45:PG:186:ASN:OD1	45:PG:187:SER:N	2.52	0.43
45:PG:251:ASP:H	45:PG:254:GLU:CG	2.31	0.43
45:PG:387:VAL:HA	45:PG:390:ARG:CD	2.47	0.43
46:PH:232:ALA:HB1	46:PH:268:ILE:HD12	1.99	0.43
46:PJ:3:GLU:OE2	46:PJ:127:CYS:HB2	2.18	0.43
45:PK:32:PRO:HB3	45:PK:83:TYR:CE1	2.54	0.43
45:PK:231:ILE:O	45:PK:235:ILE:HG12	2.19	0.43
46:PL:9:GLY:HA2	46:PL:66:MET:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PL:212:PHE:HE1	46:PL:220:PRO:HG2	1.83	0.43
45:QA:136:LEU:HD12	45:QA:167:LEU:O	2.18	0.43
46:QB:86:ARG:HH11	46:RB:281:TYR:HB2	1.84	0.43
45:QC:166:LYS:HD2	45:QC:197:HIS:O	2.18	0.43
46:QH:222:TYR:HA	46:QH:225:LEU:HD12	2.00	0.43
46:QH:273:LEU:O	46:QH:282:ARG:NH2	2.51	0.43
46:QH:325:GLU:OE2	45:QI:221:ARG:HA	2.19	0.43
45:QI:117:LEU:O	45:QI:121:ARG:HG2	2.17	0.43
46:QJ:8:GLN:NE2	46:QJ:14:ASN:HA	2.33	0.43
46:QJ:257:LEU:HA	46:QJ:312:THR:HG21	2.00	0.43
45:QK:172:TYR:OH	45:QK:191:THR:HG22	2.18	0.43
46:QL:203:ASP:O	46:QL:207:LEU:HG	2.18	0.43
46:RD:233:MET:O	46:RD:236:VAL:HG12	2.19	0.43
46:RF:330:MET:HA	46:RF:333:VAL:HG12	2.00	0.43
45:RI:99:ALA:HA	45:RI:105:ARG:HG2	2.01	0.43
45:RI:101:ASN:HA	45:RI:144:GLY:H	1.84	0.43
45:RI:184:PRO:O	45:RI:188:ILE:HG12	2.19	0.43
45:RK:226:ASN:ND2	45:RK:367:ASP:OD2	2.52	0.43
45:RK:261:PRO:HA	46:RL:394:PHE:CD1	2.54	0.43
46:RL:224:ASP:O	46:RL:228:LEU:HD13	2.18	0.43
46:RN:100:ASN:ND2	46:RN:102:ALA:HB3	2.34	0.43
46:SB:212:PHE:O	46:SB:216:LYS:HA	2.17	0.43
46:SB:217:LEU:HD12	46:SB:218:THR:N	2.34	0.43
46:SB:318:ARG:HB3	46:SB:357:PRO:HA	2.00	0.43
45:SC:434:GLU:O	45:SC:437:ILE:HG22	2.19	0.43
46:SD:346:PRO:HD2	45:SE:398:MET:HE2	1.99	0.43
46:SF:139:LEU:HD22	46:SF:170:VAL:HG22	2.00	0.43
46:SF:153:SER:O	46:SF:157:GLU:OE1	2.36	0.43
46:SF:258:ILE:HG13	46:SF:258:ILE:O	2.17	0.43
46:SH:403:MET:HG2	46:SH:407:GLU:OE2	2.18	0.43
46:SJ:86:ARG:HD2	46:TJ:282:ARG:NH2	2.33	0.43
46:SJ:131:GLN:O	46:SJ:163:ILE:HG12	2.18	0.43
45:SK:207:GLU:HA	45:SK:210:TYR:HB2	2.01	0.43
46:SL:1:MET:O	46:SL:2:ARG:HG2	2.18	0.43
46:SL:31:ASP:CG	46:SL:33:THR:HG22	2.44	0.43
45:SM:141:VAL:HG12	45:SM:171:ILE:O	2.19	0.43
46:TB:6:HIS:HB2	46:TB:21:TRP:HZ2	1.84	0.43
45:TC:226:ASN:O	45:TC:230:LEU:HD23	2.18	0.43
46:TD:189:VAL:HG13	46:TD:415:MET:HE2	2.01	0.43
46:TD:345:ILE:HG23	46:TD:345:ILE:O	2.18	0.43
46:TF:253:LEU:HA	46:TF:350:LYS:NZ	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TJ:288:GLU:O	46:TJ:291:GLN:HG3	2.18	0.43
46:TJ:322:SER:H	45:TK:221:ARG:NH2	2.16	0.43
45:TM:384:ILE:O	45:TM:387:VAL:HG22	2.18	0.43
45:UC:313:MET:HB2	45:UC:380:ASN:O	2.19	0.43
46:UD:9:GLY:HA2	46:UD:66:MET:O	2.19	0.43
45:UE:155:GLU:OE1	45:UE:155:GLU:N	2.44	0.43
46:UH:86:ARG:HG3	46:VH:281:TYR:CE1	2.53	0.43
45:UI:242:LEU:HD21	45:UI:251:ASP:OD1	2.18	0.43
46:UJ:122:LYS:HG3	46:UJ:123:GLU:N	2.33	0.43
45:UK:24:PHE:CE1	45:UK:52:PHE:HE2	2.36	0.43
46:UL:16:ILE:HD12	46:UL:229:VAL:HG21	2.00	0.43
46:UL:116:VAL:HA	46:UL:119:VAL:HG12	2.01	0.43
46:UL:346:PRO:O	45:UM:394:LYS:NZ	2.47	0.43
46:UN:66:MET:HE1	46:UN:147:MET:HG2	2.01	0.43
46:UN:106:TYR:HE2	46:UN:403:MET:HG2	1.83	0.43
46:VB:295:ASP:OD1	46:VB:297:LYS:HG3	2.18	0.43
46:VB:318:ARG:NE	46:VB:356:ILE:O	2.46	0.43
46:VD:130:LEU:HB3	46:VD:162:ARG:CZ	2.48	0.43
46:VD:317:PHE:CD1	46:VD:365:VAL:HG22	2.54	0.43
46:VD:362:LYS:HA	46:VD:362:LYS:HD3	1.82	0.43
45:VE:47:ASP:HB2	45:VE:50:ASN:OD1	2.19	0.43
46:VF:1:MET:HE3	46:VF:1:MET:HB3	1.95	0.43
46:VH:253:LEU:O	46:VH:257:LEU:HB2	2.19	0.43
45:VI:171:ILE:HG23	45:VI:204:LEU:O	2.18	0.43
46:VJ:174:LYS:HA	46:VJ:174:LYS:HD3	1.84	0.43
46:VN:42:LEU:HA	46:VN:45:GLU:CD	2.44	0.43
45:WA:119:LEU:O	45:WA:123:ARG:HG2	2.18	0.43
45:WA:184:PRO:O	45:WA:188:ILE:HG12	2.18	0.43
45:WC:334:THR:HG22	45:WC:338:LYS:HZ2	1.84	0.43
46:WF:154:LYS:HA	46:WF:154:LYS:HD3	1.79	0.43
46:WF:273:LEU:H	46:WF:292:GLN:NE2	2.11	0.43
45:WG:3:GLU:N	45:WG:3:GLU:OE1	2.52	0.43
46:WH:2:ARG:NH1	46:WH:46:ARG:HH22	2.15	0.43
46:WH:238:CYS:SG	46:WH:239:CYS:N	2.92	0.43
46:WJ:108:GLU:O	46:WJ:111:GLU:HG3	2.19	0.43
46:WJ:240:LEU:HD12	46:WJ:249:ASP:HB2	2.01	0.43
46:WJ:328:GLU:HA	46:WJ:331:LEU:HG	2.01	0.43
45:WK:18:ASN:O	45:WK:22:GLU:OE1	2.36	0.43
46:WL:86:ARG:HG2	46:WL:88:ASP:H	1.83	0.43
46:WL:268:ILE:O	46:WL:300:MET:HB2	2.19	0.43
45:CE:69:ASP:OD1	45:CE:75:ILE:HG12	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:0F:3:THR:HG22	6:0F:63:ARG:NH1	2.34	0.43
9:0N:247:GLN:HA	46:KN:74:ASP:OD1	2.19	0.43
4:1D:207:ASN:O	4:1D:210:MET:HB3	2.18	0.43
4:1D:209:LYS:NZ	34:4R:433:GLN:O	2.46	0.43
8:1H:43:ALA:C	19:1J:379:ILE:HD11	2.44	0.43
8:1H:49:GLN:O	8:1H:53:LEU:HG	2.18	0.43
8:1H:244:ALA:O	8:1H:248:ILE:HG12	2.18	0.43
18:1I:99:LYS:NZ	18:1I:102:GLN:HB2	2.34	0.43
21:1L:52:ASP:HA	21:1L:55:ARG:HH21	1.84	0.43
21:1L:65:LYS:NZ	45:BI:279:GLU:HG3	2.34	0.43
22:1M:10:VAL:HG11	22:1M:25:LEU:HD23	2.00	0.43
22:1M:240:ILE:HG21	22:1M:250:VAL:HG12	2.00	0.43
22:1M:243:HIS:CE1	22:1M:347:LYS:HB2	2.54	0.43
9:1N:214:THR:OG1	9:1N:216:GLN:HG2	2.19	0.43
23:1O:239:ILE:HG23	46:UB:280:GLN:HG2	2.00	0.43
25:1R:258:VAL:HG13	45:CC:41:THR:HG23	2.00	0.43
25:1R:406:ASP:OD1	25:1R:406:ASP:N	2.49	0.43
25:1R:446:LEU:H	25:1R:446:LEU:HD23	1.84	0.43
11:1S:213:ILE:HB	11:1S:214:PRO:HD3	2.01	0.43
13:1U:512:ARG:NH1	13:1U:531:SER:O	2.52	0.43
26:1W:103:LYS:HE3	26:1W:103:LYS:HB3	1.87	0.43
26:1W:254:ARG:HD2	26:1W:254:ARG:HA	1.78	0.43
15:1X:38:ILE:HG13	15:1X:39:LYS:N	2.33	0.43
16:2B:90:ARG:NH2	16:2B:168:GLU:OE2	2.51	0.43
4:2D:15:THR:O	46:CJ:46:ARG:NH2	2.51	0.43
29:2G:68:ARG:HD2	22:2M:358:ASP:OD2	2.18	0.43
22:2M:60:ILE:O	22:2M:91:LYS:NZ	2.51	0.43
24:2P:400:LYS:O	24:2P:403:ASP:HB2	2.19	0.43
10:2Q:72:LYS:HD2	35:5S:71:ARG:HD3	1.99	0.43
10:2Q:179:PRO:HA	10:2Q:182:LYS:HG2	2.01	0.43
12:2T:150:ALA:HB1	12:2T:164:VAL:HG13	2.00	0.43
13:2U:265:SER:HB2	13:2U:272:LEU:HD11	2.00	0.43
13:2U:329:PRO:CG	13:2U:332:TYR:HB3	2.44	0.43
26:2W:265:LEU:HD22	45:LK:370:LYS:HZ2	1.82	0.43
15:2X:99:VAL:HG12	45:MG:282:TYR:CE2	2.54	0.43
16:3B:60:LEU:HB3	16:3B:61:THR:H	1.67	0.43
16:3B:72:TYR:CD1	16:3B:79:GLN:HB3	2.54	0.43
27:3C:109:LYS:HE3	27:3C:199:GLU:HG3	2.00	0.43
32:3D:20:THR:O	32:3D:22:THR:N	2.50	0.43
12:3T:219:GLU:O	12:3T:223:ARG:HB2	2.18	0.43
13:3U:51:LEU:HD23	13:3U:87:TRP:CD2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:3U:187:VAL:HG13	13:3U:225:ALA:O	2.18	0.43
13:3U:368:VAL:HG12	13:3U:379:SER:HB3	2.01	0.43
15:3X:134:THR:HG23	15:3X:135:ARG:HD3	2.01	0.43
27:4C:100:ASN:HB3	27:4C:103:ARG:HG3	2.00	0.43
34:4R:226:LYS:NZ	34:4R:227:GLU:OE2	2.51	0.43
34:4R:284:THR:HG22	34:4R:308:LYS:HG2	2.00	0.43
35:4S:98:TYR:OH	35:4S:131:GLY:HA2	2.19	0.43
36:5C:23:LEU:O	36:5C:59:TYR:HA	2.19	0.43
37:5G:144:LEU:O	37:5G:147:GLN:HG3	2.18	0.43
37:5G:154:TYR:CE1	46:NL:35:THR:HG23	2.54	0.43
34:5R:383:GLN:HE22	46:DJ:58:ARG:HH12	1.66	0.43
40:6G:229:ASN:HB3	40:6G:230:TYR:CD1	2.54	0.43
40:6G:253:HIS:HA	40:6G:256:LYS:HG2	2.01	0.43
34:6R:207:ASP:O	34:6R:210:GLU:HG3	2.18	0.43
34:7R:149:GLN:HB3	34:7R:159:TYR:CD1	2.54	0.43
45:AA:301:MET:HA	45:AA:301:MET:HE2	2.00	0.43
45:AC:231:ILE:O	45:AC:235:ILE:HG12	2.19	0.43
45:AC:430:LYS:HD3	45:AC:430:LYS:HA	1.83	0.43
46:AD:51:TYR:HE1	46:AD:61:PRO:HG3	1.83	0.43
46:AD:167:PHE:CZ	46:AD:233:MET:HG2	2.54	0.43
46:AD:257:LEU:HD21	46:AD:314:SER:OG	2.18	0.43
45:AE:224:TYR:HE2	46:AF:246:LEU:HD11	1.84	0.43
45:AE:280:LYS:HB3	45:ME:89:PRO:HG2	2.00	0.43
45:AG:71:GLU:HA	45:AG:72:PRO:HD3	1.89	0.43
46:AH:139:LEU:HD13	46:AH:168:SER:OG	2.19	0.43
46:AH:242:PHE:CD1	46:AH:356:ILE:HG13	2.53	0.43
45:AI:210:TYR:CE1	45:AI:227:LEU:HD11	2.53	0.43
46:AJ:274:THR:HG23	46:AJ:279:GLN:HG3	2.00	0.43
45:AK:120:ASP:O	45:AK:124:LYS:HG2	2.19	0.43
45:BA:186:ASN:OD1	45:BA:187:SER:N	2.51	0.43
45:BA:296:PHE:CE1	45:BA:335:ILE:HG21	2.54	0.43
46:BB:66:MET:HA	46:BB:91:VAL:HG23	2.00	0.43
45:BC:174:SER:HB3	45:BC:207:GLU:OE2	2.18	0.43
46:BD:229:VAL:HG12	46:BD:233:MET:HE2	2.01	0.43
45:BE:97:GLU:OE1	45:BE:97:GLU:N	2.52	0.43
46:BF:164:MET:H	46:BF:197:ASP:HB2	1.83	0.43
46:BF:375:GLN:OE1	46:BF:423:GLN:HB3	2.19	0.43
46:BF:395:LEU:O	46:BF:399:THR:HG23	2.19	0.43
46:BH:201:VAL:HG23	46:BH:301:CYS:SG	2.59	0.43
46:BJ:154:LYS:O	46:BJ:157:GLU:HG2	2.18	0.43
46:BJ:372:THR:HA	46:BJ:422:TYR:CE2	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BJ:391:ARG:HA	46:BJ:391:ARG:HD2	1.78	0.43
46:BL:18:ALA:O	46:BL:22:GLU:HG3	2.18	0.43
46:BL:390:ARG:CZ	46:BL:390:ARG:HA	2.48	0.43
46:BN:66:MET:HA	46:BN:91:VAL:O	2.19	0.43
46:BN:299:MET:HE1	46:BN:367:PHE:CD2	2.54	0.43
45:CA:255:PHE:O	45:CA:259:LEU:HB2	2.19	0.43
46:CB:326:VAL:O	46:CB:330:MET:HG2	2.19	0.43
46:CB:327:ASP:HB3	45:CC:177:VAL:CG2	2.48	0.43
45:CC:320:ARG:HB2	45:CC:358:GLN:O	2.19	0.43
45:CC:387:VAL:HG23	45:CC:390:ARG:NH2	2.33	0.43
46:CD:152:ILE:HG23	46:CD:164:MET:HE3	2.00	0.43
46:CD:261:PRO:HD3	45:CE:406:HIS:CD2	2.52	0.43
46:CF:293:MET:SD	46:CF:365:VAL:HG11	2.58	0.43
45:CG:185:TYR:O	45:CG:188:ILE:HG22	2.18	0.43
46:CH:203:ASP:HB3	46:CH:205:GLU:CD	2.44	0.43
46:CJ:376:GLU:O	46:CJ:379:LYS:HG3	2.18	0.43
46:CL:48:ASN:OD1	46:CL:48:ASN:N	2.51	0.43
46:CL:173:PRO:HD2	46:CL:380:ARG:NH1	2.33	0.43
46:CL:290:THR:HA	46:CL:293:MET:HE2	2.00	0.43
46:CN:268:ILE:HG22	46:CN:368:VAL:HG22	2.00	0.43
46:DB:69:GLU:HA	46:DB:70:PRO:HD3	1.88	0.43
46:DD:6:HIS:HB3	46:DD:63:ALA:HB2	2.01	0.43
46:DD:8:GLN:O	46:DD:66:MET:HG3	2.18	0.43
46:DD:25:SER:OG	46:DD:30:ILE:O	2.36	0.43
46:DD:293:MET:SD	46:DD:365:VAL:HG11	2.59	0.43
46:DF:281:TYR:CD2	46:DF:281:TYR:CB	2.84	0.43
45:DG:17:GLY:HA2	45:DG:20:CYS:SG	2.59	0.43
45:DG:260:VAL:HG23	46:DH:397:TRP:HZ2	1.83	0.43
46:DJ:201:VAL:HG23	46:DJ:301:CYS:SG	2.58	0.43
46:DL:150:LEU:HB2	46:DL:154:LYS:NZ	2.31	0.43
45:DM:171:ILE:HG13	45:DM:204:LEU:HB2	2.01	0.43
46:EB:2:ARG:HG3	46:EB:131:GLN:OE1	2.19	0.43
46:EB:332:ASN:HB3	46:EB:336:LYS:HZ1	1.84	0.43
46:ED:6:HIS:O	46:ED:63:ALA:HA	2.19	0.43
46:ED:275:SER:OG	46:ED:278:SER:HB3	2.18	0.43
46:EF:208:TYR:CE1	46:EF:225:LEU:HD11	2.54	0.43
46:EF:268:ILE:HG22	46:EF:368:VAL:HG22	2.01	0.43
45:EG:156:ARG:HH11	45:EG:156:ARG:HA	1.83	0.43
45:EG:213:CYS:SG	45:EG:222:PRO:HG3	2.58	0.43
46:EH:293:MET:CG	46:EH:365:VAL:HG11	2.49	0.43
45:EK:141:VAL:HG12	45:EK:171:ILE:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EM:384:ILE:O	45:EM:387:VAL:HG22	2.19	0.43
45:FA:238:LEU:HD13	45:FA:318:MET:HE2	2.01	0.43
45:FE:384:ILE:O	45:FE:387:VAL:HG22	2.19	0.43
46:FF:117:LEU:CD2	46:FF:121:ARG:HD2	2.48	0.43
46:FH:67:ASP:HB3	46:FH:73:MET:HE1	2.01	0.43
46:FH:403:MET:HG3	46:FH:407:GLU:OE1	2.19	0.43
46:FL:270:PHE:HD2	46:FL:273:LEU:HD21	1.84	0.43
46:FL:391:ARG:HD2	46:FL:391:ARG:HA	1.81	0.43
45:GC:171:ILE:HG23	45:GC:204:LEU:O	2.19	0.43
45:GC:320:ARG:NH2	45:GC:360:PRO:HA	2.34	0.43
46:GD:262:ARG:NH1	46:GD:421:GLU:OE1	2.51	0.43
46:GF:293:MET:CE	46:GF:367:PHE:HB2	2.48	0.43
45:GG:123:ARG:NH2	45:GG:124:LYS:HB2	2.34	0.43
45:GI:220:GLU:H	45:GI:220:GLU:CD	2.26	0.43
45:GK:70:LEU:HD12	45:GK:145:THR:HG22	2.01	0.43
46:GL:147:MET:HE3	46:GL:147:MET:HA	2.00	0.43
46:GL:354:CYS:SG	46:GL:356:ILE:HG22	2.58	0.43
45:GM:88:HIS:ND1	45:GM:90:GLU:HG2	2.34	0.43
46:HB:105:HIS:CE1	46:HB:150:LEU:HD12	2.53	0.43
45:HC:221:ARG:HH22	46:HD:322:SER:H	1.67	0.43
45:HC:345:ASP:OD2	45:HC:438:GLU:HG2	2.19	0.43
45:HC:377:MET:SD	45:HC:379:SER:HB2	2.59	0.43
46:HD:154:LYS:O	46:HD:157:GLU:HG2	2.18	0.43
46:HD:405:GLU:HA	46:HD:408:PHE:HD2	1.83	0.43
46:HJ:162:ARG:HA	46:HJ:162:ARG:HD3	1.80	0.43
46:HJ:190:HIS:CD2	46:HJ:414:ASN:HD22	2.37	0.43
45:IA:115:VAL:O	45:IA:119:LEU:HG	2.19	0.43
45:IC:96:LYS:NZ	46:ID:129:CYS:SG	2.65	0.43
46:IF:113:ILE:HA	46:IF:116:VAL:HG12	2.01	0.43
46:IF:134:GLN:HA	46:IF:165:GLU:HB3	2.00	0.43
46:IH:318:ARG:HD2	46:IH:354:CYS:HB3	2.01	0.43
46:IN:313:ALA:HB1	46:IN:367:PHE:HE1	1.83	0.43
45:JA:352:LYS:NZ	46:JD:99:ASN:OD1	2.51	0.43
46:JH:12:CYS:SG	46:JH:169:VAL:HG21	2.59	0.43
46:JH:409:THR:O	46:JH:412:GLU:HG3	2.19	0.43
45:JI:10:GLY:O	45:JI:14:ILE:HG12	2.19	0.43
46:JJ:105:HIS:HD1	46:JJ:106:TYR:HD1	1.67	0.43
46:JL:332:ASN:O	46:JL:336:LYS:HE2	2.17	0.43
46:JN:207:LEU:HG	46:JN:225:LEU:HD22	2.01	0.43
46:KB:77:ARG:HD3	46:KB:90:PHE:CZ	2.53	0.43
45:KG:152:LEU:HD12	45:KG:152:LEU:HA	1.89	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KG:335:ILE:HA	45:KG:338:LYS:NZ	2.33	0.43
46:KH:263:LEU:HG	46:KH:422:TYR:CE1	2.54	0.43
45:KI:90:GLU:O	45:KI:90:GLU:HG3	2.19	0.43
45:KK:103:PHE:HB2	45:KK:186:ASN:HB3	2.01	0.43
46:KN:151:LEU:O	46:KN:155:VAL:HG22	2.19	0.43
45:LA:90:GLU:O	45:LA:121:ARG:NH1	2.52	0.43
46:LB:256:ASN:HD22	46:LB:350:LYS:HD2	1.84	0.43
45:LE:133:GLN:HB3	45:LE:252:ILE:HD13	2.00	0.43
46:LF:68:LEU:HD12	46:LF:97:ALA:HB2	1.99	0.43
46:LF:87:PRO:HA	46:LF:90:PHE:HD2	1.84	0.43
45:LG:55:GLU:OE2	45:LG:56:THR:N	2.52	0.43
45:LG:331:SER:O	45:LG:335:ILE:HG12	2.19	0.43
45:LI:224:TYR:HE2	46:LJ:246:LEU:HD11	1.84	0.43
45:LI:408:TYR:HB3	45:LI:413:MET:CE	2.49	0.43
45:LK:384:ILE:O	45:LK:387:VAL:HG22	2.18	0.43
46:LN:122:LYS:HE2	46:MN:291:GLN:HE22	1.84	0.43
46:LN:130:LEU:HD12	46:LN:131:GLN:N	2.34	0.43
45:MA:109:THR:O	45:MA:112:LYS:NZ	2.50	0.43
45:MA:387:VAL:O	45:MA:391:LEU:HD23	2.19	0.43
45:MC:345:ASP:OD1	45:MC:346:TRP:N	2.52	0.43
46:MD:229:VAL:HG12	46:MD:233:MET:CE	2.49	0.43
46:MD:257:LEU:HD23	46:MD:266:PHE:CZ	2.53	0.43
46:MJ:222:TYR:HD2	49:MJ:501:GDP:C6	2.37	0.43
45:MM:224:TYR:HE2	46:MN:323:THR:HG21	1.84	0.43
46:MN:67:ASP:OD1	46:MN:68:LEU:N	2.51	0.43
45:NE:265:ILE:HG22	45:NE:380:ASN:HD21	1.84	0.43
45:NE:330:ALA:O	45:NE:334:THR:HG23	2.19	0.43
45:NE:371:VAL:HG22	45:NE:373:ARG:H	1.84	0.43
46:NH:322:SER:HB3	46:NH:325:GLU:OE1	2.17	0.43
46:NJ:164:MET:N	46:NJ:197:ASP:OD1	2.51	0.43
45:NK:177:VAL:HG12	46:NL:331:LEU:HD11	2.01	0.43
45:NK:345:ASP:OD1	45:NK:346:TRP:N	2.52	0.43
45:OA:332:ILE:HG23	45:OA:351:PHE:CE2	2.54	0.43
46:OB:217:LEU:H	46:OB:217:LEU:HD23	1.84	0.43
45:OC:182:VAL:O	45:OC:182:VAL:HG12	2.18	0.43
45:OE:190:SER:O	45:OE:194:LEU:HG	2.19	0.43
45:OE:268:MET:HG3	45:OE:380:ASN:HB2	2.01	0.43
46:OJ:117:LEU:HA	46:OJ:120:VAL:HG12	1.99	0.43
45:OK:384:ILE:O	45:OK:387:VAL:HG12	2.19	0.43
45:OK:434:GLU:O	45:OK:437:ILE:HG22	2.18	0.43
46:ON:201:VAL:HG12	46:ON:266:PHE:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PA:14:ILE:HG13	45:PA:67:PHE:CD1	2.54	0.43
45:PA:430:LYS:HA	45:PA:433:GLU:HG2	1.99	0.43
46:PB:312:THR:HG22	46:PB:370:ASN:HB3	2.00	0.43
46:PB:347:ASN:C	46:PB:347:ASN:HD22	2.25	0.43
46:PD:164:MET:SD	46:PD:196:ALA:HA	2.59	0.43
46:PD:322:SER:OG	46:PD:325:GLU:OE1	2.34	0.43
45:PE:32:PRO:HB3	45:PE:83:TYR:HE1	1.84	0.43
45:PE:117:LEU:O	45:PE:121:ARG:HG2	2.17	0.43
46:PF:186:THR:HA	46:PF:189:VAL:HG12	2.01	0.43
45:PG:10:GLY:O	45:PG:14:ILE:HG12	2.18	0.43
45:PK:401:LYS:HZ3	46:PL:344:TRP:CG	2.37	0.43
46:PL:145:SER:HB2	46:PL:188:SER:HB3	2.01	0.43
46:PL:272:PRO:HD3	46:PL:289:LEU:HD11	2.00	0.43
46:PN:215:LEU:O	46:PN:215:LEU:HD23	2.18	0.43
46:PN:403:MET:HE2	46:PN:408:PHE:CE1	2.54	0.43
45:QA:346:TRP:HB3	46:QB:390:ARG:CZ	2.48	0.43
46:QB:147:MET:O	46:QB:150:LEU:HG	2.19	0.43
45:QC:326:LYS:HE2	46:QD:220:PRO:HD2	1.99	0.43
46:QD:2:ARG:NH1	45:QE:72:PRO:HD2	2.33	0.43
45:QE:174:SER:HB3	45:QE:175:PRO:HD2	2.01	0.43
45:QG:386:GLU:O	45:QG:390:ARG:HG2	2.19	0.43
46:QH:201:VAL:HG23	46:QH:301:CYS:SG	2.58	0.43
45:QI:242:LEU:HD21	45:QI:251:ASP:HA	2.01	0.43
45:QI:288:VAL:HG21	45:QI:327:ASP:HB3	1.99	0.43
46:QJ:139:LEU:HD13	46:QJ:168:SER:HB3	2.00	0.43
45:QK:339:ARG:HH21	45:QK:342:GLN:HB3	1.83	0.43
46:QL:252:LYS:HA	45:QM:100:ALA:HB1	2.01	0.43
46:QL:274:THR:HB	46:QL:282:ARG:NH1	2.33	0.43
46:QL:376:GLU:O	46:QL:380:ARG:HG2	2.19	0.43
45:QM:17:GLY:O	45:QM:21:TRP:HE3	2.02	0.43
45:RC:28:HIS:NE2	45:RC:243:ARG:HD2	2.34	0.43
46:RD:321:MET:N	46:RD:321:MET:SD	2.92	0.43
46:RH:313:ALA:HB1	46:RH:367:PHE:CE1	2.54	0.43
46:RJ:255:VAL:HG21	45:RK:100:ALA:O	2.19	0.43
45:RM:77:GLU:HA	45:RM:80:THR:OG1	2.18	0.43
45:RM:102:ASN:HD22	45:RM:105:ARG:HG2	1.82	0.43
45:RM:212:ILE:HD11	45:RM:300:ASN:HA	1.99	0.43
45:SA:211:ASP:HA	45:SA:214:ARG:HG3	2.01	0.43
46:SB:288:GLU:HG3	46:SB:291:GLN:HE21	1.84	0.43
45:SC:64:ARG:NH1	45:SC:129:CYS:SG	2.92	0.43
45:SC:127:ASP:OD1	45:SC:128:ASN:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SC:274:PRO:HD3	45:SC:291:ILE:HD11	1.99	0.43
45:SE:34:GLY:O	45:SE:60:LYS:HA	2.18	0.43
46:SF:175:VAL:CG2	46:SF:205:GLU:HB2	2.48	0.43
46:SF:403:MET:HE2	46:SF:403:MET:HB3	1.72	0.43
45:SG:317:MET:HB3	45:SG:377:MET:HG2	2.00	0.43
45:SI:80:THR:HA	45:SI:84:ARG:NH1	2.34	0.43
45:SI:322:ASP:OD1	45:SI:373:ARG:NH1	2.50	0.43
46:SL:22:GLU:HA	46:SL:81:PHE:CD2	2.54	0.43
46:TB:52:ASN:OD1	46:TB:62:ARG:NH2	2.52	0.43
46:TD:1:MET:O	46:TD:2:ARG:HG2	2.19	0.43
45:TE:172:TYR:HE2	45:TE:203:MET:HE1	1.83	0.43
45:TE:174:SER:OG	45:TE:207:GLU:HB2	2.19	0.43
46:TF:207:LEU:HA	46:TF:210:ILE:HG12	2.01	0.43
46:TH:31:ASP:OD2	46:TH:33:THR:OG1	2.37	0.43
45:TK:2:ARG:HA	45:TK:133:GLN:HE22	1.83	0.43
45:TK:141:VAL:HG22	45:TK:187:SER:HA	2.00	0.43
46:TL:207:LEU:HB3	46:TL:225:LEU:HD22	2.01	0.43
46:TL:230:SER:HA	46:TL:233:MET:HE3	2.00	0.43
46:TL:233:MET:O	46:TL:236:VAL:HG12	2.19	0.43
46:TL:375:GLN:HB3	46:TL:422:TYR:CE2	2.53	0.43
45:TM:169:PHE:HD1	45:TM:204:LEU:HD11	1.84	0.43
46:TN:97:ALA:HB3	46:TN:143:THR:HB	1.99	0.43
46:TN:313:ALA:HB1	46:TN:367:PHE:HE1	1.83	0.43
45:UA:141:VAL:HG12	45:UA:171:ILE:O	2.19	0.43
46:UD:70:PRO:HG3	46:UD:92:PHE:HB2	2.00	0.43
45:UE:211:ASP:O	45:UE:214:ARG:HG3	2.19	0.43
46:UF:1:MET:O	46:UF:2:ARG:HG2	2.18	0.43
46:UF:124:ALA:HB1	46:UF:130:LEU:HD11	2.01	0.43
45:UG:263:PRO:HB2	45:UG:264:ARG:NH2	2.33	0.43
46:UH:102:ALA:HA	46:UH:403:MET:CE	2.49	0.43
46:UH:193:VAL:HA	46:UH:264:HIS:HE1	1.83	0.43
45:UK:72:PRO:HG3	45:UK:95:GLY:O	2.19	0.43
46:UL:130:LEU:H	46:UL:130:LEU:HD23	1.83	0.43
45:UM:133:GLN:O	45:UM:165:SER:OG	2.36	0.43
45:UM:324:VAL:CG1	45:UM:326:LYS:HG2	2.49	0.43
45:VA:111:GLY:O	45:VA:115:VAL:HG13	2.18	0.43
45:VA:317:MET:SD	45:VA:377:MET:HG2	2.58	0.43
46:VB:163:ILE:HD11	46:VB:251:ARG:HG3	2.01	0.43
45:VC:8:HIS:ND1	45:VC:67:PHE:HE2	2.17	0.43
45:VE:147:SER:HB2	45:VE:190:SER:HB3	2.00	0.43
46:VF:21:TRP:CZ2	46:VF:63:ALA:HB2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VI:150:GLY:O	45:VI:154:LEU:HD23	2.19	0.43
46:VJ:105:HIS:CE1	46:VJ:150:LEU:HD12	2.54	0.43
46:VJ:289:LEU:CD1	46:VJ:363:MET:HE3	2.48	0.43
46:VJ:325:GLU:HA	46:VJ:328:GLU:CG	2.44	0.43
46:VJ:384:GLN:O	46:VJ:388:MET:HG2	2.19	0.43
46:VL:384:GLN:O	46:VL:388:MET:HG2	2.19	0.43
45:VM:88:HIS:ND1	45:VM:90:GLU:HG2	2.34	0.43
45:VM:408:TYR:HB3	45:VM:413:MET:SD	2.58	0.43
46:VN:164:MET:SD	46:VN:196:ALA:HA	2.59	0.43
46:VN:389:PHE:HD2	46:VN:390:ARG:HH21	1.66	0.43
46:WB:276:ARG:HA	46:WB:279:GLN:HE22	1.84	0.43
45:WC:98:ASP:OD1	45:WC:99:ALA:N	2.51	0.43
45:WE:175:PRO:HA	45:WE:390:ARG:CZ	2.49	0.43
45:WE:210:TYR:CE1	45:WE:227:LEU:HD21	2.54	0.43
46:WF:68:LEU:HD23	46:WF:143:THR:OG1	2.19	0.43
46:WF:258:ILE:O	46:WF:258:ILE:HG13	2.18	0.43
46:WF:383:GLU:HA	46:WF:386:THR:HG22	2.00	0.43
46:WH:210:ILE:O	46:WH:214:THR:OG1	2.25	0.43
45:WI:71:GLU:HA	45:WI:72:PRO:HD3	1.90	0.43
45:WI:324:VAL:HG12	45:WI:326:LYS:H	1.84	0.43
45:WI:326:LYS:HD2	46:WL:208:TYR:CB	2.46	0.43
46:WL:324:LYS:HB3	46:WL:324:LYS:HE2	1.87	0.43
45:DC:75:ILE:O	45:DC:79:ARG:HG2	2.18	0.43
1:0A:35:TYR:O	1:0A:37:THR:HG23	2.19	0.43
4:0D:38:ILE:O	45:EC:279:GLU:HG3	2.19	0.43
4:0D:187:PHE:HE1	46:FB:320:ARG:HD3	1.84	0.43
5:0E:45:ARG:HG2	5:0E:68:HIS:CD2	2.54	0.43
13:0U:449:ARG:HG2	13:0U:470:ASP:OD2	2.19	0.43
13:0U:547:HIS:ND1	13:0U:561:GLY:HA2	2.34	0.43
14:0V:257:LYS:HA	14:0V:257:LYS:HD2	1.81	0.43
1:1A:39:TYR:OH	45:ME:78:VAL:HG13	2.19	0.43
16:1B:58:VAL:O	16:1B:60:LEU:N	2.51	0.43
5:1E:8:LEU:HD22	5:1E:67:LEU:HD21	2.00	0.43
5:1E:138:THR:O	5:1E:142:VAL:HG23	2.18	0.43
5:1E:160:GLN:OE1	5:1E:162:LYS:HB3	2.18	0.43
8:1H:100:PHE:O	8:1H:104:LYS:HE3	2.19	0.43
8:1H:254:LYS:O	8:1H:258:GLU:HB2	2.19	0.43
8:1H:260:ARG:HD3	8:1H:261:ARG:HD3	2.00	0.43
8:1H:282:GLN:NE2	8:1H:286:LYS:HD3	2.34	0.43
18:1I:144:THR:HA	46:KF:320:ARG:HH12	1.84	0.43
19:1J:111:TYR:C	19:1J:113:SER:H	2.27	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:1K:219:GLN:HA	20:1K:222:MET:HG3	2.00	0.43
21:1L:64:ASP:OD2	45:BI:279:GLU:HG2	2.18	0.43
21:1L:67:ARG:HA	21:1L:70:LEU:HD12	2.00	0.43
21:1L:413:PHE:HD2	21:1L:424:ILE:HD12	1.83	0.43
21:1L:451:ARG:HG3	21:1L:452:TYR:CD1	2.54	0.43
21:1L:542:ILE:O	21:1L:578:ASN:N	2.51	0.43
24:1P:83:TYR:C	24:1P:87:LYS:HZ2	2.27	0.43
24:1P:227:GLU:OE1	24:1P:227:GLU:N	2.49	0.43
24:1P:277:LYS:HA	24:1P:281:GLU:OE1	2.19	0.43
25:1R:44:VAL:HB	25:1R:46:TYR:CZ	2.54	0.43
11:1S:110:VAL:HG12	46:MF:160:PRO:HD3	2.01	0.43
11:1S:309:MET:HA	11:1S:309:MET:HE3	2.01	0.43
13:1U:106:GLN:HG3	13:1U:122:GLY:HA2	2.00	0.43
13:1U:377:ILE:HD11	14:2V:6:ILE:HD11	2.01	0.43
13:1U:521:ASP:OD1	13:1U:523:GLN:NE2	2.51	0.43
15:1X:49:ILE:O	15:1X:53:ILE:HG12	2.18	0.43
4:2D:20:LYS:HG2	4:2D:21:VAL:H	1.83	0.43
4:2D:93:GLN:O	4:2D:96:VAL:HG23	2.18	0.43
4:2D:95:GLN:OE1	45:EK:364:PRO:HB2	2.19	0.43
5:2E:44:ASP:OD2	5:2E:45:ARG:NH2	2.52	0.43
20:2K:227:ARG:O	20:2K:231:LYS:HG3	2.18	0.43
21:2L:703:ILE:O	21:2L:706:THR:OG1	2.28	0.43
22:2M:98:PRO:HD2	22:2M:150:PHE:CZ	2.54	0.43
9:2N:151:TYR:C	9:2N:173:ILE:HD12	2.44	0.43
9:2N:211:HIS:CD2	9:2N:213:PRO:HD2	2.54	0.43
23:2O:285:GLU:O	23:2O:289:ILE:HG12	2.18	0.43
25:2R:112:GLU:HG3	46:BJ:284:LEU:HD11	2.01	0.43
11:2S:208:ILE:HD13	11:2S:208:ILE:HA	1.91	0.43
12:2T:187:ILE:HG22	12:2T:189:PHE:CD2	2.54	0.43
14:2V:256:GLU:O	14:2V:260:LYS:HE2	2.18	0.43
26:2W:256:ARG:NH1	26:2W:256:ARG:O	2.52	0.43
26:2W:280:ASP:HA	46:LL:320:ARG:NH2	2.34	0.43
15:2X:5:LYS:HB3	15:2X:7:SER:O	2.18	0.43
27:3C:108:LEU:HD22	27:3C:167:ARG:NH1	2.33	0.43
11:3S:42:ASN:ND2	45:WK:125:LEU:HA	2.34	0.43
12:3T:1:MET:N	12:3T:1:MET:HE2	2.34	0.43
12:3T:74:ILE:HD12	45:MK:159:VAL:HG23	2.00	0.43
13:3U:105:ILE:HD12	13:3U:108:LEU:HD21	2.01	0.43
13:3U:154:PHE:CE1	13:3U:162:ILE:HD12	2.54	0.43
13:3U:404:HIS:HD1	13:3U:428:GLU:CD	2.27	0.43
13:3U:433:VAL:HB	13:3U:440:VAL:HG23	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4Q:177:LEU:O	10:4Q:182:LYS:NZ	2.48	0.43
34:4R:432:SER:HG	34:4R:433:GLN:H	1.60	0.43
35:4S:65:PHE:CE1	35:4S:74:LEU:HD21	2.54	0.43
15:4X:39:LYS:HE3	15:4X:39:LYS:HB2	1.73	0.43
37:5F:134:ILE:HA	37:5F:137:VAL:CG1	2.42	0.43
34:5R:152:LYS:HG2	34:5R:160:TYR:CE1	2.53	0.43
39:6F:26:TRP:CE3	39:6F:30:ARG:HD3	2.53	0.43
40:6G:94:VAL:HG11	40:6G:97:ASP:OD2	2.19	0.43
10:6Q:25:TRP:HE3	10:6Q:59:ILE:HG22	1.83	0.43
34:7R:116:CYS:HB3	34:7R:131:GLU:HB3	2.00	0.43
46:AB:87:PRO:HA	46:AB:90:PHE:CD2	2.53	0.43
45:AC:5:ILE:HB	45:AC:135:PHE:CD1	2.53	0.43
45:AC:19:ALA:HA	45:AC:22:GLU:OE1	2.19	0.43
45:AC:386:GLU:CD	45:AC:390:ARG:HH21	2.27	0.43
46:AD:154:LYS:O	46:AD:157:GLU:HG3	2.19	0.43
46:AD:350:LYS:HA	46:AD:350:LYS:HD2	1.79	0.43
45:AE:5:ILE:HB	45:AE:135:PHE:CD1	2.53	0.43
45:AE:241:SER:OG	45:AE:250:VAL:O	2.22	0.43
45:AG:147:SER:HB2	45:AG:190:SER:HB3	2.00	0.43
45:AI:71:GLU:OE2	46:AJ:247:ASN:ND2	2.51	0.43
45:AK:32:PRO:HB3	45:AK:83:TYR:HE1	1.84	0.43
45:AK:46:ASP:C	45:AK:48:ALA:H	2.27	0.43
46:AN:3:GLU:OE2	46:AN:127:CYS:HB2	2.19	0.43
46:AN:233:MET:O	46:AN:236:VAL:HG12	2.19	0.43
46:AN:288:GLU:O	46:AN:291:GLN:HG3	2.19	0.43
45:BA:217:LEU:HB3	45:BA:219:ILE:HG23	2.01	0.43
46:BB:9:GLY:HA2	46:BB:66:MET:O	2.19	0.43
46:BB:116:VAL:HA	46:BB:119:VAL:HG12	2.00	0.43
46:BB:316:LEU:HB2	46:BB:366:THR:HG23	2.00	0.43
46:BB:391:ARG:HA	46:BB:391:ARG:HD2	1.78	0.43
45:BE:101:ASN:ND2	45:BE:143:GLY:HA2	2.32	0.43
45:BE:254:GLU:OE2	46:BH:98:GLY:HA2	2.19	0.43
46:BF:232:ALA:HB1	46:BF:268:ILE:HD12	2.01	0.43
45:BG:174:SER:HB2	45:BG:177:VAL:O	2.19	0.43
46:BH:68:LEU:HA	46:BH:93:GLY:H	1.83	0.43
46:BH:345:ILE:HG13	46:BH:345:ILE:O	2.19	0.43
45:BI:91:GLN:CG	45:BI:121:ARG:HH12	2.30	0.43
45:BI:103:PHE:CD2	45:BI:189:LEU:HD13	2.54	0.43
46:BJ:150:LEU:O	46:BJ:154:LYS:HG2	2.18	0.43
45:BK:103:PHE:HD2	45:BK:413:MET:HE1	1.84	0.43
45:BK:384:ILE:O	45:BK:387:VAL:HG22	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CB:116:VAL:HA	46:CB:119:VAL:HG12	2.00	0.43
46:CB:379:LYS:O	46:CB:382:ALA:N	2.51	0.43
45:CC:196:GLU:HG2	45:CC:197:HIS:CD2	2.54	0.43
46:CD:392:LYS:C	46:CD:395:LEU:HD23	2.43	0.43
46:CF:330:MET:HE2	46:CF:349:ILE:CG2	2.49	0.43
46:CF:347:ASN:OD1	45:CG:178:SER:OG	2.24	0.43
45:CG:239:THR:HG23	45:CG:243:ARG:HE	1.84	0.43
46:CH:73:MET:HB2	46:CH:90:PHE:HE1	1.81	0.43
45:CI:288:VAL:HA	45:CI:291:ILE:HG12	2.00	0.43
46:CL:20:PHE:O	46:CL:24:ILE:HG12	2.18	0.43
46:CL:122:LYS:HG3	46:CL:123:GLU:OE1	2.18	0.43
46:CL:324:LYS:HE2	45:CM:222:PRO:C	2.44	0.43
46:CL:326:VAL:O	46:CL:330:MET:HG2	2.19	0.43
46:CN:139:LEU:HD13	46:CN:168:SER:HB3	2.00	0.43
46:CN:200:MET:SD	46:CN:268:ILE:HD13	2.59	0.43
46:DD:390:ARG:HA	46:DD:390:ARG:HH11	1.84	0.43
46:DF:289:LEU:HD23	46:DF:289:LEU:HA	1.85	0.43
46:DH:58:ARG:CZ	46:EH:281:TYR:HE1	2.32	0.43
46:DH:258:ILE:HG13	46:DH:258:ILE:O	2.18	0.43
45:DK:141:VAL:HG11	45:DK:172:TYR:HA	2.00	0.43
46:DL:31:ASP:HB3	46:DL:37:HIS:CD2	2.54	0.43
45:DM:167:LEU:HG	45:DM:200:VAL:HB	2.00	0.43
46:DN:100:ASN:ND2	46:DN:102:ALA:HB3	2.34	0.43
45:EC:75:ILE:HG21	45:EC:94:SER:HB2	2.00	0.43
46:ED:118:ASP:O	46:ED:122:LYS:HG3	2.18	0.43
46:ED:407:GLU:O	46:ED:410:GLU:HG3	2.19	0.43
45:EE:10:GLY:O	45:EE:14:ILE:HG12	2.18	0.43
45:EE:107:HIS:ND1	45:EE:107:HIS:O	2.52	0.43
46:EF:254:ALA:O	46:EF:258:ILE:HG12	2.18	0.43
46:EF:288:GLU:HA	46:EF:291:GLN:HG3	2.00	0.43
46:EH:32:PRO:HA	46:EH:84:LEU:HD11	2.00	0.43
46:EH:199:CYS:O	46:EH:200:MET:HE2	2.18	0.43
46:EH:233:MET:O	46:EH:236:VAL:HG12	2.19	0.43
45:EI:223:THR:HG23	45:EI:225:THR:H	1.83	0.43
45:EK:318:MET:HB2	45:EK:376:CYS:SG	2.58	0.43
45:EM:265:ILE:HG23	45:EM:432:TYR:HE1	1.83	0.43
45:EM:288:VAL:O	45:EM:292:THR:HG23	2.19	0.43
46:EN:99:ASN:HA	46:EN:142:GLY:H	1.84	0.43
45:FA:74:VAL:HA	45:FA:77:GLU:OE2	2.18	0.43
45:FA:244:PHE:CE1	45:FA:358:GLN:HG3	2.54	0.43
45:FC:296:PHE:CE2	45:FC:335:ILE:HG21	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FD:288:GLU:O	46:FD:291:GLN:HG3	2.19	0.43
45:FE:256:GLN:OE1	46:FH:397:TRP:NE1	2.48	0.43
45:FE:288:VAL:HA	45:FE:291:ILE:HG12	2.00	0.43
46:FF:394:PHE:HA	46:FF:397:TRP:CZ3	2.53	0.43
46:FH:396:HIS:HA	46:FH:399:THR:OG1	2.19	0.43
46:FJ:32:PRO:HA	46:FJ:84:LEU:HD11	2.00	0.43
46:FJ:68:LEU:HD23	46:FJ:143:THR:OG1	2.19	0.43
45:FK:181:VAL:CG1	46:FL:348:ASN:HA	2.49	0.43
45:FK:332:ILE:HG22	45:FK:336:LYS:NZ	2.33	0.43
46:FL:86:ARG:HH11	46:GL:281:TYR:HB3	1.83	0.43
46:GB:391:ARG:HD2	46:GB:391:ARG:HA	1.77	0.43
45:GC:316:SER:HA	45:GC:352:LYS:O	2.19	0.43
46:GD:19:LYS:HG3	46:GD:226:ASN:HB2	1.99	0.43
45:GE:96:LYS:HG2	46:GF:1:MET:HE1	2.01	0.43
45:GE:224:TYR:CD2	47:GE:501:GTP:C6	3.07	0.43
46:GH:208:TYR:CE2	46:GH:225:LEU:HD11	2.54	0.43
46:GH:345:ILE:HG23	46:GH:345:ILE:O	2.19	0.43
45:GI:219:ILE:HG22	45:GI:221:ARG:H	1.83	0.43
46:GJ:347:ASN:C	46:GJ:347:ASN:HD22	2.27	0.43
46:GL:66:MET:HE1	46:GL:147:MET:HG2	2.01	0.43
45:GM:88:HIS:HB3	45:GM:91:GLN:HG2	2.00	0.43
46:HB:100:ASN:HD21	46:HB:102:ALA:HB3	1.84	0.43
46:HD:70:PRO:HG3	46:HD:92:PHE:CD1	2.54	0.43
46:HD:86:ARG:HG2	46:HD:88:ASP:H	1.83	0.43
45:HG:71:GLU:OE1	46:HH:247:ASN:ND2	2.52	0.43
45:HG:407:TRP:HH2	46:HH:254:ALA:HB1	1.84	0.43
46:HJ:336:LYS:HA	46:HJ:336:LYS:HD3	1.75	0.43
45:HK:241:SER:OG	45:HK:250:VAL:O	2.23	0.43
46:HN:377:MET:O	46:HN:380:ARG:HG2	2.19	0.43
46:ID:135:ILE:HD12	46:ID:152:ILE:HD11	2.01	0.43
46:IF:268:ILE:HG22	46:IF:368:VAL:HG13	2.00	0.43
45:IG:345:ASP:OD2	45:IG:346:TRP:N	2.51	0.43
45:IG:401:LYS:HB2	45:IG:401:LYS:HE3	1.80	0.43
45:II:141:VAL:HG12	45:II:171:ILE:O	2.18	0.43
45:II:153:LEU:O	45:II:157:LEU:HD23	2.19	0.43
45:IM:118:CYS:O	45:IM:122:ILE:HG12	2.18	0.43
46:IN:117:LEU:HD13	46:IN:121:ARG:HH22	1.84	0.43
45:JA:205:ASP:OD2	45:JA:304:LYS:N	2.34	0.43
45:JA:306:ASP:OD1	45:JA:308:ARG:NE	2.31	0.43
45:JA:338:LYS:HG3	45:JA:340:THR:HG22	2.00	0.43
45:JA:434:GLU:O	45:JA:437:ILE:HG12	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JD:113:ILE:HA	46:JD:116:VAL:HG12	2.00	0.43
46:JD:161:ASP:OD1	46:JD:161:ASP:N	2.46	0.43
45:JE:258:ASN:ND2	45:JE:352:LYS:HE3	2.34	0.43
46:JF:187:LEU:HD21	46:JF:408:PHE:CE2	2.50	0.43
46:JF:324:LYS:HE2	46:JF:324:LYS:HB2	1.72	0.43
45:JG:200:VAL:HG13	45:JG:268:MET:CE	2.46	0.43
45:JG:356:ASN:OD1	45:JG:357:TYR:N	2.52	0.43
45:JI:36:MET:O	45:JI:38:SER:N	2.46	0.43
45:JI:68:LEU:HD21	45:JI:118:CYS:SG	2.59	0.43
45:JI:200:VAL:HG13	45:JI:268:MET:HE2	2.01	0.43
45:JK:318:MET:HE3	45:JK:318:MET:HB3	1.94	0.43
46:JL:198:GLU:OE2	46:JL:254:ALA:HB2	2.19	0.43
45:KA:251:ASP:HB3	45:KA:253:THR:HG22	2.01	0.43
45:KE:406:HIS:CD2	45:KE:407:TRP:CD1	3.06	0.43
45:KG:51:THR:HG21	45:KG:243:ARG:HD3	2.01	0.43
45:LA:320:ARG:HA	45:LA:356:ASN:O	2.18	0.43
46:LD:380:ARG:HB3	46:LD:380:ARG:CZ	2.49	0.43
45:LE:346:TRP:H	45:LE:346:TRP:CD1	2.37	0.43
46:LH:401:GLU:OE2	46:LH:401:GLU:N	2.51	0.43
45:LI:175:PRO:HD2	45:LI:207:GLU:OE2	2.19	0.43
45:LI:222:PRO:HD2	46:LJ:324:LYS:HE3	2.01	0.43
45:LI:387:VAL:HG12	45:LI:390:ARG:NH2	2.33	0.43
45:LK:88:HIS:HB3	45:LK:91:GLN:HG2	2.01	0.43
45:LK:274:PRO:HG3	45:LK:286:LEU:HD12	2.00	0.43
46:LL:192:LEU:HD21	46:LL:199:CYS:SG	2.58	0.43
46:LL:404:ASP:N	46:LL:407:GLU:OE1	2.52	0.43
45:LM:317:MET:SD	45:LM:377:MET:HE1	2.59	0.43
46:MD:245:GLN:C	46:MD:246:LEU:HD12	2.44	0.43
45:ME:194:LEU:O	45:ME:198:THR:HG22	2.19	0.43
46:MH:107:THR:HG23	46:MH:108:GLU:CD	2.44	0.43
46:ML:101:TRP:HB2	46:ML:184:ASN:OD1	2.19	0.43
46:MN:318:ARG:HE	46:MN:358:PRO:HG3	1.83	0.43
46:MN:405:GLU:CD	46:MN:405:GLU:H	2.27	0.43
45:NA:90:GLU:OE1	45:OA:280:LYS:HE2	2.18	0.43
45:NC:2:ARG:O	45:NC:51:THR:HA	2.19	0.43
46:ND:375:GLN:NE2	46:ND:426:GLN:HE22	2.15	0.43
46:NJ:294:PHE:CE2	46:NJ:333:VAL:HG11	2.54	0.43
45:NM:175:PRO:HD2	45:NM:207:GLU:OE2	2.19	0.43
45:NM:316:SER:C	45:NM:317:MET:HE2	2.44	0.43
45:NM:406:HIS:CD2	45:NM:407:TRP:CD1	3.06	0.43
46:OB:210:ILE:HD13	46:OB:297:LYS:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OD:9:GLY:HA2	46:OD:66:MET:O	2.19	0.43
45:OE:2:ARG:O	45:OE:51:THR:HA	2.19	0.43
45:OE:301:MET:N	45:OE:301:MET:SD	2.92	0.43
46:OF:186:THR:HA	46:OF:189:VAL:HG12	2.01	0.43
46:OF:201:VAL:HG23	46:OF:301:CYS:SG	2.59	0.43
45:OI:137:VAL:HG23	45:OI:168:GLY:HA2	2.01	0.43
45:OI:224:TYR:CD2	47:OI:501:GTP:C6	3.06	0.43
45:OI:390:ARG:HG3	45:OI:391:LEU:N	2.34	0.43
46:OJ:200:MET:HE2	46:OJ:268:ILE:HD11	2.01	0.43
46:OL:3:GLU:N	46:OL:3:GLU:OE1	2.51	0.43
45:OM:394:LYS:HG2	46:ON:346:PRO:HG3	2.00	0.43
45:PA:203:MET:HG3	45:PA:384:ILE:HD11	2.01	0.43
45:PC:60:LYS:HZ1	45:PC:86:LEU:HD12	1.83	0.43
45:PE:313:MET:HE1	45:PE:346:TRP:HH2	1.83	0.43
45:PG:88:HIS:ND1	45:PG:90:GLU:HG3	2.33	0.43
46:PH:153:SER:HA	46:PH:195:ASN:ND2	2.34	0.43
46:PL:341:PHE:HD2	46:PL:348:ASN:HD21	1.67	0.43
45:QA:387:VAL:HA	45:QA:390:ARG:HG2	2.00	0.43
46:QD:63:ALA:O	46:QD:89:ASN:ND2	2.47	0.43
46:QF:239:CYS:SG	46:QF:247:ASN:HA	2.58	0.43
45:QG:47:ASP:HB3	45:QG:48:ALA:H	1.71	0.43
45:QG:56:THR:HG23	45:QG:58:ALA:H	1.84	0.43
46:QL:49:VAL:HG23	46:QL:50:TYR:CD2	2.54	0.43
46:QL:156:ARG:NH2	46:QL:160:PRO:O	2.52	0.43
46:QL:380:ARG:HA	46:QL:383:GLU:CD	2.44	0.43
45:QM:288:VAL:HA	45:QM:291:ILE:HG12	2.00	0.43
46:QN:201:VAL:HG23	46:QN:301:CYS:SG	2.58	0.43
45:RA:312:TYR:HE1	45:RA:341:ILE:HG23	1.84	0.43
46:RB:202:ILE:HG13	46:RB:300:MET:CE	2.49	0.43
46:RF:267:MET:HE1	46:RF:299:MET:CG	2.48	0.43
46:RF:350:LYS:HA	45:RG:179:THR:O	2.19	0.43
46:RH:8:GLN:HE22	46:RH:17:GLY:HA3	1.84	0.43
46:RH:222:TYR:CD2	46:RH:225:LEU:HD21	2.54	0.43
46:RH:293:MET:HE3	46:RH:365:VAL:HG12	2.01	0.43
46:RJ:8:GLN:HE21	46:RJ:14:ASN:HA	1.84	0.43
45:RK:63:PRO:HG2	45:RK:87:PHE:HD1	1.84	0.43
46:RL:154:LYS:NZ	46:RL:158:GLU:OE1	2.34	0.43
46:RL:182:PRO:O	46:RL:186:THR:HG23	2.18	0.43
46:RL:258:ILE:HB	45:RM:407:TRP:CH2	2.53	0.43
45:SA:36:MET:HE2	45:SA:61:HIS:HE1	1.84	0.43
45:SA:66:VAL:HG11	45:SA:122:ILE:HD11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SA:292:THR:HB	45:SA:319:TYR:OH	2.19	0.43
46:SD:375:GLN:HA	46:SD:378:PHE:HD1	1.84	0.43
45:SE:275:ILE:HA	45:SE:368:LEU:HD11	2.00	0.43
46:SF:252:LYS:HA	46:SF:255:VAL:HG22	2.01	0.43
46:SF:372:THR:HA	46:SF:422:TYR:CE2	2.54	0.43
46:SH:122:LYS:HD3	46:SH:122:LYS:HA	1.71	0.43
46:SH:214:THR:OG1	46:SH:215:LEU:N	2.52	0.43
46:SH:215:LEU:HD22	46:SH:217:LEU:HB2	2.01	0.43
46:SH:255:VAL:HG11	45:SI:100:ALA:O	2.19	0.43
45:SI:107:HIS:ND1	45:SI:107:HIS:O	2.52	0.43
45:SI:150:GLY:O	45:SI:154:LEU:HD23	2.18	0.43
46:SJ:325:GLU:O	46:SJ:328:GLU:HG3	2.18	0.43
45:SK:371:VAL:HG12	45:SK:373:ARG:H	1.84	0.43
45:SK:429:GLU:O	45:SK:433:GLU:OE1	2.36	0.43
46:SL:99:ASN:HA	46:SL:142:GLY:H	1.83	0.43
46:SN:9:GLY:HA2	46:SN:66:MET:O	2.19	0.43
46:TB:31:ASP:OD2	46:TB:37:HIS:ND1	2.52	0.43
46:TB:101:TRP:CE3	46:TB:187:LEU:HD13	2.54	0.43
45:TC:51:THR:HG22	45:TC:52:PHE:HD2	1.82	0.43
45:TC:371:VAL:HG12	45:TC:373:ARG:H	1.84	0.43
46:TF:8:GLN:HE21	46:TF:14:ASN:HA	1.83	0.43
46:TF:150:LEU:HD23	46:TF:154:LYS:NZ	2.33	0.43
46:TH:21:TRP:CZ3	46:TH:61:PRO:HB3	2.53	0.43
46:TH:41:ASP:OD1	46:TH:41:ASP:N	2.51	0.43
45:TI:71:GLU:HA	45:TI:72:PRO:HD3	1.90	0.43
46:TL:110:ALA:O	46:TL:113:ILE:HG22	2.19	0.43
45:UA:284:GLU:HG3	45:UA:286:LEU:HD22	2.00	0.43
46:UB:207:LEU:HD13	46:UB:225:LEU:HB3	2.00	0.43
46:UD:36:TYR:C	46:UD:37:HIS:HD1	2.26	0.43
46:UD:255:VAL:HG21	45:UE:100:ALA:O	2.19	0.43
45:UE:192:HIS:CD2	45:UE:421:ALA:HA	2.53	0.43
46:UF:45:GLU:OE1	46:UF:45:GLU:N	2.49	0.43
46:UF:274:THR:HG23	46:UF:279:GLN:HE22	1.83	0.43
46:UJ:287:PRO:HA	46:UJ:290:THR:HG22	2.00	0.43
46:UJ:420:SER:O	46:UJ:423:GLN:HG3	2.18	0.43
46:UL:1:MET:O	46:UL:2:ARG:HG2	2.18	0.43
45:UM:171:ILE:O	45:UM:171:ILE:HG13	2.18	0.43
45:VC:384:ILE:O	45:VC:387:VAL:HG22	2.19	0.43
45:VE:98:ASP:OD2	46:VF:252:LYS:NZ	2.51	0.43
45:VG:317:MET:HE1	45:VG:351:PHE:HB3	2.01	0.43
46:VJ:217:LEU:O	46:VJ:220:PRO:HD3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VK:22:GLU:O	45:VK:26:LEU:HD23	2.19	0.43
45:VK:319:TYR:HB3	45:VK:323:VAL:HG11	2.00	0.43
46:VN:156:ARG:NH1	46:VN:162:ARG:O	2.52	0.43
45:WA:324:VAL:HB	45:WA:327:ASP:OD1	2.19	0.43
46:WB:199:CYS:O	46:WB:200:MET:HE2	2.18	0.43
45:WC:41:THR:CG2	45:WC:42:ILE:H	2.26	0.43
46:WD:42:LEU:O	46:WD:45:GLU:HG2	2.19	0.43
46:WD:293:MET:HG3	46:WD:367:PHE:HB2	2.01	0.43
45:WG:10:GLY:O	45:WG:14:ILE:HG12	2.17	0.43
45:WG:99:ALA:HB3	45:WG:145:THR:HG22	2.01	0.43
45:WG:100:ALA:HB1	46:WH:252:LYS:HA	2.01	0.43
45:WG:156:ARG:HG3	45:WG:156:ARG:HH11	1.84	0.43
46:WJ:329:GLN:HG2	46:WJ:330:MET:HE2	2.01	0.43
46:WN:22:GLU:HG2	46:WN:81:PHE:HB2	2.00	0.43
46:WN:183:TYR:HE2	46:WN:394:PHE:HB2	1.84	0.43
46:WN:194:GLU:HA	46:WN:262:ARG:HH22	1.84	0.43
45:CE:66:VAL:HG11	45:CE:122:ILE:HD11	1.99	0.43
45:CE:187:SER:O	45:CE:191:THR:HG23	2.18	0.43
4:0D:166:ARG:NH1	45:EC:80:THR:O	2.52	0.43
4:0D:174:TYR:HD1	45:EC:79:ARG:HD3	1.83	0.43
5:0E:172:SER:HA	5:0E:181:PHE:CE1	2.54	0.43
10:0Q:6:PHE:CZ	45:WA:120:ASP:OD2	2.71	0.43
10:0Q:27:LYS:HA	10:0Q:59:ILE:HG22	2.01	0.43
12:0T:50:GLU:HA	12:0T:53:ARG:HE	1.84	0.43
13:0U:190:GLY:H	13:0U:227:PHE:HE1	1.67	0.43
14:0V:242:GLU:O	14:0V:246:ARG:HG3	2.18	0.43
15:0X:37:ARG:O	15:0X:41:GLN:HG3	2.19	0.43
16:1B:90:ARG:NH2	16:1B:168:GLU:OE2	2.52	0.43
8:1H:288:ARG:HH11	8:1H:289:GLU:HG3	1.82	0.43
18:1I:114:GLN:O	18:1I:118:ILE:HG12	2.18	0.43
19:1J:351:LYS:HB3	19:1J:360:GLN:HG2	2.00	0.43
20:1K:125:LYS:HB3	20:1K:129:LYS:NZ	2.34	0.43
21:1L:129:SER:OG	21:1L:130:GLN:N	2.51	0.43
21:1L:190:PHE:CE2	21:1L:194:ILE:HD11	2.54	0.43
21:1L:643:ARG:NH2	46:CD:357:PRO:O	2.52	0.43
22:1M:151:MET:HA	22:1M:151:MET:HE3	2.01	0.43
22:1M:312:ASN:HD21	22:1M:315:LYS:HD2	1.84	0.43
22:1M:318:ARG:HD2	22:1M:354:ASP:HA	2.01	0.43
9:1N:314:ARG:HA	9:1N:317:ILE:HD12	2.00	0.43
25:1R:312:GLN:H	25:1R:312:GLN:CD	2.27	0.43
11:1S:81:PHE:HE1	12:1T:42:HIS:CE1	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:1T:139:TYR:HA	12:1T:145:MET:HG3	2.00	0.43
13:1U:446:LYS:HD2	13:1U:476:TRP:CZ3	2.54	0.43
26:1W:65:GLY:HA3	46:LH:224:ASP:OD2	2.19	0.43
1:2A:104:ARG:HH21	34:5R:60:GLY:N	2.17	0.43
16:2B:61:THR:HB	16:2B:65:LEU:HB3	2.01	0.43
27:2C:189:GLU:HA	27:2C:192:GLN:NE2	2.34	0.43
4:2D:56:LYS:O	4:2D:60:LYS:HB2	2.19	0.43
4:2D:223:ILE:O	34:5R:506:LEU:HG	2.19	0.43
5:2E:83:GLU:HA	5:2E:86:CYS:SG	2.59	0.43
5:2E:92:LEU:HD23	5:2E:169:SER:HA	2.00	0.43
29:2G:14:TYR:CD1	45:KG:339:ARG:HG3	2.54	0.43
20:2K:237:GLU:HA	20:2K:240:MET:HE2	2.01	0.43
20:2K:450:LYS:O	20:2K:453:GLN:HG3	2.18	0.43
21:2L:616:GLY:O	21:2L:617:ARG:HB2	2.19	0.43
23:2O:288:LYS:NZ	46:VH:359:LYS:HE2	2.34	0.43
10:2Q:65:PRO:HA	10:2Q:153:ARG:NH2	2.34	0.43
10:2Q:175:GLU:HG2	10:2Q:176:GLU:OE1	2.19	0.43
25:2R:158:LEU:HG	25:2R:166:TYR:CE1	2.53	0.43
14:2V:87:LYS:HA	14:2V:87:LYS:HD3	1.68	0.43
14:2V:122:LYS:HE2	46:LH:390:ARG:HH22	1.84	0.43
26:2W:220:LEU:O	26:2W:224:GLU:OE1	2.37	0.43
16:3B:217:LYS:HA	16:3B:220:GLN:NE2	2.23	0.43
27:3C:55:PHE:CD2	27:3C:86:VAL:HG21	2.52	0.43
27:3C:198:LYS:HE2	27:3C:198:LYS:HB3	1.90	0.43
32:3D:86:GLY:O	32:3D:90:THR:HG23	2.18	0.43
5:3E:175:ILE:HD11	5:3E:181:PHE:HD1	1.84	0.43
23:3O:407:GLU:O	23:3O:411:LYS:HG2	2.18	0.43
25:3R:8:LEU:HB2	25:3R:11:PHE:CE2	2.54	0.43
13:3U:59:SER:H	13:3U:74:GLN:HA	1.84	0.43
13:3U:63:VAL:HG12	13:3U:70:ILE:HG23	2.01	0.43
13:3U:261:VAL:HG23	13:3U:310:LEU:HD13	2.01	0.43
13:3U:318:CYS:SG	13:3U:319:HIS:N	2.92	0.43
33:4F:47:MET:O	33:4F:50:ASN:ND2	2.47	0.43
15:4X:88:PHE:O	15:4X:92:LYS:HG2	2.19	0.43
36:5B:102:TYR:CE1	45:KE:394:LYS:HE3	2.54	0.43
36:5C:139:PHE:HB3	46:NL:42:LEU:HD12	2.00	0.43
37:5E:81:MET:HG3	37:5E:96:TYR:CE2	2.54	0.43
37:5E:154:TYR:HE2	37:5F:11:TRP:NE1	2.17	0.43
37:5F:157:ARG:NH1	46:NH:36:TYR:O	2.50	0.43
37:5G:69:LYS:HA	37:5G:69:LYS:HD3	1.80	0.43
37:5G:146:PHE:HD2	37:5G:149:ARG:HH11	1.65	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:5Q:38:THR:HA	10:5Q:45:SER:HA	1.99	0.43
40:6G:144:LYS:HD3	45:VG:214:ARG:NH2	2.30	0.43
34:6R:79:PRO:O	34:6R:82:GLN:NE2	2.51	0.43
45:AA:179:THR:OG1	46:AB:350:LYS:NZ	2.52	0.43
46:AB:21:TRP:HA	46:AB:24:ILE:HG22	2.01	0.43
46:AB:52:ASN:OD1	46:AB:62:ARG:NH2	2.51	0.43
45:AC:181:VAL:HG22	46:AD:256:ASN:OD1	2.19	0.43
45:AE:251:ASP:HB3	45:AE:254:GLU:HG2	2.01	0.43
46:AJ:5:VAL:HG12	46:AJ:62:ARG:HD3	2.01	0.43
45:AK:220:GLU:HG2	45:AK:221:ARG:HG3	2.01	0.43
45:BA:58:ALA:O	45:CA:282:TYR:OH	2.29	0.43
45:BA:109:THR:HG22	45:BA:110:ILE:HG23	2.00	0.43
45:BA:245:ASP:OD2	45:BA:245:ASP:N	2.51	0.43
45:BA:377:MET:HE2	45:BA:379:SER:HB3	2.00	0.43
46:BB:167:PHE:CD1	46:BB:233:MET:HE1	2.54	0.43
45:BC:425:LEU:HD23	45:BC:425:LEU:HA	1.79	0.43
45:BE:171:ILE:HG23	45:BE:204:LEU:O	2.18	0.43
45:BG:221:ARG:NH1	46:BH:322:SER:HB3	2.34	0.43
46:BJ:101:TRP:CZ3	46:BJ:403:MET:HE1	2.54	0.43
46:BL:322:SER:OG	46:BL:325:GLU:OE1	2.37	0.43
45:BM:33:ASP:HA	45:BM:85:GLN:HE21	1.83	0.43
45:CA:88:HIS:ND1	45:CA:89:PRO:HD2	2.34	0.43
45:CA:89:PRO:HD3	45:DA:280:LYS:HE3	2.00	0.43
45:CA:231:ILE:O	45:CA:235:ILE:HG12	2.19	0.43
45:CC:74:VAL:HA	45:CC:77:GLU:HG2	2.00	0.43
45:CG:141:VAL:HG12	45:CG:171:ILE:O	2.18	0.43
45:CI:334:THR:O	45:CI:338:LYS:HG3	2.19	0.43
46:CJ:165:GLU:OE1	46:CJ:198:GLU:HB2	2.19	0.43
46:CJ:324:LYS:O	46:CJ:328:GLU:HG3	2.19	0.43
46:CL:47:ILE:HD12	46:CL:59:TYR:CE2	2.47	0.43
46:CL:252:LYS:HA	46:CL:255:VAL:HG12	2.00	0.43
46:CN:65:LEU:HD23	46:CN:73:MET:HG2	2.01	0.43
45:DA:372:MET:SD	45:DA:373:ARG:HG3	2.59	0.43
46:DD:334:GLN:HA	46:DD:341:PHE:CE2	2.53	0.43
46:DD:382:ALA:HB2	46:DD:415:MET:HE3	2.00	0.43
45:DE:71:GLU:HG2	45:DE:71:GLU:O	2.18	0.43
45:DG:11:GLN:HE21	47:DG:501:GTP:PA	2.42	0.43
46:DH:323:THR:HG21	45:DI:224:TYR:HD2	1.84	0.43
46:DH:390:ARG:HA	46:DH:390:ARG:NH1	2.33	0.43
46:EB:287:PRO:HG3	46:EB:329:GLN:NE2	2.34	0.43
45:EC:265:ILE:HD11	45:EC:435:VAL:HG21	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ED:2:ARG:NH1	46:ED:240:LEU:HG	2.34	0.43
45:EE:387:VAL:HA	45:EE:390:ARG:HG2	2.01	0.43
46:EF:139:LEU:HD13	46:EF:168:SER:HB3	2.00	0.43
45:EI:260:VAL:HG23	46:EJ:397:TRP:HZ2	1.83	0.43
46:EJ:122:LYS:HD3	46:EJ:122:LYS:C	2.43	0.43
45:EK:175:PRO:HG2	45:EK:304:LYS:HG2	2.00	0.43
45:EM:401:LYS:HB2	45:EM:401:LYS:HE3	1.82	0.43
45:FA:104:ALA:HB2	45:FA:413:MET:HE2	2.00	0.43
45:FA:317:MET:HE1	45:FA:351:PHE:CD2	2.53	0.43
46:FB:269:GLY:HA2	46:FB:300:MET:HE1	2.00	0.43
46:FF:86:ARG:HH22	46:GF:281:TYR:HD2	1.67	0.43
45:FG:171:ILE:HG23	45:FG:204:LEU:O	2.19	0.43
45:FI:174:SER:HB2	45:FI:177:VAL:O	2.18	0.43
45:FM:167:LEU:HG	45:FM:200:VAL:HB	2.01	0.43
46:FN:15:GLN:NE2	49:FN:501:GDP:C5	2.87	0.43
46:GD:289:LEU:HD11	46:GD:363:MET:HB3	2.01	0.43
45:GE:222:PRO:HD2	46:GF:324:LYS:NZ	2.34	0.43
46:GF:55:THR:HG23	46:HF:283:ALA:HA	2.00	0.43
46:GH:289:LEU:HD23	46:GH:289:LEU:HA	1.88	0.43
46:GL:1:MET:HE3	46:GL:2:ARG:N	2.28	0.43
46:GN:287:PRO:HA	46:GN:290:THR:HG22	2.01	0.43
45:HC:174:SER:HB2	45:HC:177:VAL:O	2.19	0.43
45:HE:345:ASP:OD1	45:HE:346:TRP:N	2.52	0.43
45:HG:181:VAL:H	46:HH:256:ASN:HD21	1.67	0.43
45:HG:224:TYR:HE2	46:HH:246:LEU:HD11	1.84	0.43
46:HH:342:VAL:HG13	46:HH:345:ILE:HG22	2.01	0.43
45:HM:107:HIS:ND1	45:HM:107:HIS:O	2.52	0.43
45:HM:115:VAL:HG22	45:HM:119:LEU:HD23	2.01	0.43
45:HM:288:VAL:HA	45:HM:291:ILE:HG12	2.01	0.43
45:HM:395:PHE:HZ	45:HM:418:PHE:HB3	1.83	0.43
45:IA:308:ARG:HA	45:IA:308:ARG:NH1	2.33	0.43
46:IB:227:HIS:C	46:IB:227:HIS:ND1	2.76	0.43
46:IF:204:ASN:OD1	49:IF:501:GDP:O2'	2.35	0.43
45:IG:259:LEU:HD11	45:IG:316:SER:HB3	2.01	0.43
46:IH:347:ASN:HD22	46:IH:347:ASN:C	2.27	0.43
46:IJ:379:LYS:O	46:IJ:383:GLU:HG2	2.19	0.43
45:IK:188:ILE:O	45:IK:191:THR:OG1	2.27	0.43
45:IK:320:ARG:HA	45:IK:356:ASN:O	2.19	0.43
45:IM:390:ARG:HG3	45:IM:391:LEU:N	2.34	0.43
45:IM:416:GLY:O	45:IM:419:SER:OG	2.28	0.43
45:JA:63:PRO:HG2	45:JA:87:PHE:HE1	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JE:330:ALA:O	45:JE:334:THR:HG23	2.19	0.43
46:JF:203:ASP:OD2	46:JF:302:ALA:N	2.33	0.43
45:JG:426:ALA:O	45:JG:429:GLU:HG2	2.19	0.43
45:JI:38:SER:O	45:JI:40:LYS:HG2	2.18	0.43
45:JI:96:LYS:HD3	45:JI:96:LYS:O	2.19	0.43
46:JL:398:TYR:O	46:JL:403:MET:HB3	2.19	0.43
45:JM:420:GLU:HA	45:JM:423:GLU:OE2	2.19	0.43
45:KC:205:ASP:OD2	45:KC:303:ALA:HA	2.19	0.43
46:KD:9:GLY:HA2	46:KD:66:MET:O	2.19	0.43
46:KD:362:LYS:HB2	46:KD:362:LYS:HE3	1.64	0.43
45:KE:176:GLN:O	46:KF:331:LEU:HD11	2.19	0.43
45:KK:264:ARG:NH2	45:KK:428:LEU:HD13	2.34	0.43
46:KL:418:LEU:HA	46:KL:421:GLU:HG2	2.01	0.43
45:LC:124:LYS:HE2	45:LC:124:LYS:HB2	1.88	0.43
46:LD:116:VAL:HA	46:LD:119:VAL:HG22	2.01	0.43
45:LE:108:TYR:CE2	45:LE:413:MET:HG3	2.54	0.43
46:LF:16:ILE:HD12	46:LF:229:VAL:HG21	2.00	0.43
46:LH:159:TYR:HB3	46:LH:162:ARG:HG3	2.01	0.43
45:LI:315:CYS:SG	45:LI:377:MET:HE1	2.59	0.43
46:LJ:97:ALA:HB2	46:LJ:143:THR:HB	2.00	0.43
45:LK:140:SER:OG	47:LK:501:GTP:O2B	2.36	0.43
45:LK:326:LYS:HZ2	46:LN:212:PHE:HB2	1.84	0.43
46:LL:407:GLU:OE2	46:LL:407:GLU:N	2.45	0.43
45:LM:330:ALA:O	45:LM:334:THR:HG23	2.18	0.43
46:MD:310:TYR:CD2	46:MD:371:SER:HB2	2.54	0.43
45:ME:414:GLU:OE2	45:ME:415:GLU:HG3	2.19	0.43
45:MG:71:GLU:OE2	45:MG:73:THR:OG1	2.24	0.43
45:MM:356:ASN:OD1	45:MM:357:TYR:N	2.52	0.43
45:NA:179:THR:O	46:NB:350:LYS:NZ	2.52	0.43
45:NA:242:LEU:HD21	45:NA:252:ILE:HG12	2.01	0.43
45:NC:21:TRP:CZ2	45:NC:65:ALA:HB2	2.53	0.43
46:ND:152:ILE:HG23	46:ND:164:MET:HE2	2.00	0.43
46:ND:380:ARG:HA	46:ND:383:GLU:OE1	2.19	0.43
46:NF:345:ILE:O	46:NF:345:ILE:HG23	2.18	0.43
45:NG:205:ASP:OD1	45:NG:303:ALA:HA	2.19	0.43
45:NI:27:GLU:CD	45:NI:243:ARG:HH12	2.27	0.43
45:NI:167:LEU:HD11	45:NI:252:ILE:HG23	1.99	0.43
45:NK:339:ARG:NH2	45:NK:340:THR:HA	2.34	0.43
46:NN:309:ARG:NH2	46:NN:342:VAL:HA	2.33	0.43
46:OB:173:PRO:HG3	46:OB:384:GLN:NE2	2.33	0.43
46:OB:205:GLU:HG2	46:OB:206:ALA:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OD:165:GLU:OE2	46:OD:200:MET:HG2	2.18	0.43
46:OD:201:VAL:HG22	46:OD:266:PHE:O	2.19	0.43
46:OD:201:VAL:HG23	46:OD:301:CYS:SG	2.59	0.43
45:OE:217:LEU:HB3	45:OE:219:ILE:HG12	2.00	0.43
45:OE:370:LYS:O	45:OE:370:LYS:HG3	2.19	0.43
46:OH:23:VAL:HA	46:OH:26:ASP:OD2	2.19	0.43
45:OK:36:MET:SD	45:OK:37:PRO:HD2	2.58	0.43
45:OK:136:LEU:HB3	45:OK:138:PHE:CE2	2.54	0.43
45:PA:269:LEU:CD1	45:PA:303:ALA:HB3	2.49	0.43
46:PB:282:ARG:HH21	46:PB:288:GLU:HG2	1.84	0.43
45:PG:51:THR:HG21	45:PG:243:ARG:HD3	2.00	0.43
45:PG:265:ILE:HG22	45:PG:380:ASN:HD21	1.84	0.43
46:PH:19:LYS:HE3	46:PH:227:HIS:HB2	2.00	0.43
45:PI:105:ARG:NH1	46:PJ:251:ARG:HD3	2.34	0.43
45:PI:231:ILE:O	45:PI:235:ILE:HG12	2.19	0.43
46:PJ:388:MET:HA	46:PJ:388:MET:HE2	2.01	0.43
46:PN:139:LEU:HD23	46:PN:185:ALA:HA	2.01	0.43
46:PN:375:GLN:HA	46:PN:378:PHE:HD1	1.83	0.43
46:QB:68:LEU:HB3	46:QB:96:GLY:HA2	2.00	0.43
46:QB:212:PHE:HB3	46:QB:213:ARG:CZ	2.49	0.43
45:QC:226:ASN:ND2	45:QC:367:ASP:OD2	2.52	0.43
46:QD:398:TYR:O	46:QD:403:MET:HB2	2.19	0.43
45:QE:265:ILE:HG21	45:QE:313:MET:HE1	2.01	0.43
46:QF:258:ILE:HD11	45:QG:407:TRP:CZ2	2.54	0.43
46:QH:54:ALA:HB3	46:QH:58:ARG:HG2	2.00	0.43
46:QH:151:LEU:O	46:QH:155:VAL:HG22	2.19	0.43
45:QI:88:HIS:HB3	45:QI:91:GLN:HG2	1.99	0.43
45:QI:141:VAL:HG12	45:QI:171:ILE:O	2.19	0.43
45:QI:145:THR:HG22	47:QI:501:GTP:PG	2.59	0.43
46:QJ:16:ILE:HD13	46:QJ:226:ASN:OD1	2.18	0.43
45:QK:11:GLN:OE1	45:QK:11:GLN:N	2.43	0.43
46:QL:299:MET:SD	46:QL:299:MET:N	2.91	0.43
45:QM:8:HIS:CE1	45:QM:21:TRP:CH2	3.06	0.43
46:QN:175:VAL:HG22	46:QN:205:GLU:HB2	2.01	0.43
45:RA:88:HIS:HB3	45:RA:91:GLN:HG2	2.01	0.43
46:RB:148:GLY:O	46:RB:152:ILE:HG13	2.18	0.43
46:RB:318:ARG:HB2	46:RB:364:ALA:HB3	2.01	0.43
46:RB:327:ASP:O	46:RB:331:LEU:HD23	2.19	0.43
45:RI:194:LEU:O	45:RI:198:THR:HG22	2.18	0.43
46:RJ:252:LYS:HD2	45:RK:101:ASN:OD1	2.19	0.43
46:SD:253:LEU:HD22	46:SD:350:LYS:HZ3	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SD:293:MET:HE3	46:SD:299:MET:HE1	2.01	0.43
45:SE:328:VAL:HG11	45:SE:353:VAL:HG21	2.00	0.43
46:SF:97:ALA:HA	46:SF:103:LYS:NZ	2.34	0.43
45:SG:23:LEU:O	45:SG:27:GLU:OE1	2.36	0.43
45:SG:55:GLU:HG3	45:SG:57:GLY:H	1.84	0.43
45:SG:56:THR:HA	45:TG:285:GLN:OE1	2.19	0.43
45:SK:262:TYR:OH	46:SL:391:ARG:O	2.36	0.43
46:SL:193:VAL:HG12	46:SL:265:PHE:CZ	2.54	0.43
45:SM:393:HIS:HA	45:SM:396:ASP:OD2	2.18	0.43
46:TB:321:MET:HB3	45:TC:221:ARG:NH2	2.34	0.43
45:TC:175:PRO:HA	45:TC:390:ARG:NH1	2.34	0.43
46:TH:301:CYS:SG	46:TH:302:ALA:N	2.91	0.43
46:TJ:345:ILE:HG22	46:TJ:348:ASN:HB3	2.01	0.43
46:UB:262:ARG:HA	46:UB:262:ARG:CZ	2.48	0.43
45:UC:34:GLY:O	45:UC:60:LYS:HA	2.19	0.43
46:UD:383:GLU:HA	46:UD:386:THR:HG22	2.01	0.43
45:UE:148:GLY:O	45:UE:151:SER:OG	2.36	0.43
45:UI:74:VAL:O	45:UI:78:VAL:HG23	2.18	0.43
45:UK:123:ARG:NH1	45:UK:127:ASP:HB3	2.30	0.43
45:UK:328:VAL:HG11	45:UK:353:VAL:HG21	2.00	0.43
46:UL:175:VAL:HG22	46:UL:205:GLU:HG2	2.01	0.43
45:UM:21:TRP:CZ2	45:UM:65:ALA:HB2	2.54	0.43
45:UM:22:GLU:HG3	45:UM:83:TYR:CE2	2.53	0.43
45:UM:182:VAL:HG22	45:UM:185:TYR:HB2	2.01	0.43
45:UM:240:ALA:HB3	45:UM:320:ARG:HH22	1.83	0.43
45:UM:331:SER:O	45:UM:335:ILE:HG12	2.19	0.43
46:UN:119:VAL:HA	46:UN:122:LYS:HG2	2.00	0.43
46:VB:119:VAL:O	46:VB:123:GLU:OE1	2.37	0.43
46:VB:229:VAL:O	46:VB:233:MET:HG2	2.19	0.43
45:VC:220:GLU:OE1	45:VC:221:ARG:HG2	2.19	0.43
46:VD:213:ARG:HA	46:VD:216:LYS:NZ	2.34	0.43
46:VF:228:LEU:HD11	46:VF:273:LEU:HD11	2.01	0.43
46:VF:312:THR:HG22	46:VF:370:ASN:HB3	2.00	0.43
46:VH:332:ASN:O	46:VH:336:LYS:HG2	2.19	0.43
45:VI:22:GLU:O	45:VI:26:LEU:HD23	2.18	0.43
45:VI:174:SER:HB3	45:VI:207:GLU:OE2	2.17	0.43
45:VI:221:ARG:HH21	46:VJ:321:MET:HB2	1.82	0.43
45:VI:288:VAL:HA	45:VI:291:ILE:HG12	2.00	0.43
46:VJ:16:ILE:HD13	46:VJ:226:ASN:OD1	2.18	0.43
45:VK:242:LEU:HD21	45:VK:251:ASP:OD1	2.19	0.43
45:VK:280:LYS:O	45:VK:280:LYS:HG2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WA:104:ALA:HA	45:WA:413:MET:HE3	2.00	0.43
46:WB:3:GLU:O	46:WB:4:ILE:HD13	2.19	0.43
46:WB:12:CYS:O	46:WB:16:ILE:HG12	2.18	0.43
46:WD:207:LEU:HB3	46:WD:225:LEU:HD22	2.01	0.43
45:WE:22:GLU:OE2	45:WE:83:TYR:HE2	2.02	0.43
45:WE:209:ILE:HG21	45:WE:227:LEU:HG	2.01	0.43
45:WE:345:ASP:OD2	45:WE:346:TRP:N	2.52	0.43
46:WF:253:LEU:O	46:WF:257:LEU:HB2	2.19	0.43
45:WG:84:ARG:H	45:WG:84:ARG:HG2	1.66	0.43
45:WG:239:THR:HG23	45:WG:243:ARG:NE	2.32	0.43
45:WG:261:PRO:HA	46:WJ:394:PHE:HD2	1.84	0.43
45:WG:329:ASN:OD1	46:WJ:175:VAL:HG23	2.19	0.43
46:WH:203:ASP:OD2	46:WH:302:ALA:N	2.39	0.43
46:WH:310:TYR:CD1	46:WH:371:SER:HB2	2.54	0.43
46:WH:318:ARG:HH11	46:WH:358:PRO:HG3	1.84	0.43
45:WM:141:VAL:HG11	45:WM:172:TYR:HA	2.01	0.43
46:WN:256:ASN:CB	46:WN:350:LYS:HE3	2.49	0.43
45:DC:24:PHE:HA	45:DC:27:GLU:HG2	2.01	0.43
2:0B:82:VAL:HG12	46:JH:355:ASP:OD2	2.19	0.42
2:0B:142:HIS:O	2:0B:144:GLU:N	2.52	0.42
3:0C:77:PRO:HB3	46:EH:39:ASP:OD1	2.18	0.42
6:0F:164:GLU:O	6:0F:167:PHE:HB3	2.19	0.42
9:0N:244:ASN:O	9:0N:264:ARG:NH1	2.52	0.42
9:0N:272:PHE:O	9:0N:273:ARG:HD2	2.19	0.42
11:0S:213:ILE:HB	11:0S:214:PRO:HD3	2.00	0.42
11:0S:223:ASP:O	11:0S:227:ILE:HG12	2.19	0.42
11:0S:256:LEU:HA	11:0S:259:PHE:CD2	2.48	0.42
13:0U:557:VAL:O	13:0U:571:GLY:N	2.49	0.42
1:1A:151:HIS:NE2	1:1A:153:PRO:HG3	2.34	0.42
16:1B:115:LYS:HB2	16:1B:160:THR:HB	2.01	0.42
4:1D:54:PHE:HA	45:EG:221:ARG:HH12	1.84	0.42
5:1E:129:HIS:C	5:1E:133:LYS:HZ2	2.27	0.42
7:1G:113:ILE:HB	7:1G:118:GLN:NE2	2.34	0.42
7:1G:159:LYS:O	7:1G:161:LYS:N	2.49	0.42
8:1H:41:GLU:OE1	19:1J:353:TYR:OH	2.32	0.42
8:1H:356:LYS:HA	8:1H:356:LYS:HD2	1.86	0.42
20:1K:164:ILE:HD12	20:1K:164:ILE:H	1.84	0.42
20:1K:166:ILE:O	20:1K:169:LYS:HG3	2.19	0.42
21:1L:377:ARG:O	21:1L:377:ARG:HG3	2.19	0.42
21:1L:406:ARG:HD2	46:CF:357:PRO:HG2	2.01	0.42
21:1L:749:ILE:HG13	21:1L:750:ASN:OD1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:1N:477:GLU:O	9:1N:481:GLU:OE1	2.37	0.42
23:1O:185:ARG:HD2	46:UD:279:GLN:NE2	2.34	0.42
24:1P:182:GLU:O	24:1P:186:GLU:OE1	2.37	0.42
24:1P:183:LYS:HA	24:1P:186:GLU:OE1	2.19	0.42
24:1P:290:LEU:HA	24:1P:293:LYS:HG3	2.01	0.42
10:1Q:79:ILE:C	10:1Q:80:ILE:HD13	2.44	0.42
25:1R:18:GLU:OE2	25:1R:18:GLU:N	2.45	0.42
25:1R:329:PHE:HB2	25:1R:361:PHE:CE1	2.54	0.42
13:1U:107:SER:OG	13:1U:152:ILE:HG12	2.18	0.42
5:2E:88:ILE:O	5:2E:91:GLU:HB3	2.18	0.42
20:2K:187:TYR:O	20:2K:191:ILE:HG12	2.19	0.42
21:2L:378:ARG:O	21:2L:378:ARG:HG3	2.19	0.42
23:2O:259:LYS:HD3	23:2O:259:LYS:N	2.33	0.42
23:2O:431:ILE:O	23:2O:434:ASN:N	2.51	0.42
24:2P:401:MET:HA	24:2P:404:GLN:OE1	2.18	0.42
25:2R:65:PRO:HA	25:2R:68:MET:HB2	2.01	0.42
13:2U:145:ASN:OD1	13:2U:146:ARG:N	2.52	0.42
26:2W:231:PHE:HA	26:2W:234:GLN:HG3	2.00	0.42
26:2W:254:ARG:HH21	34:6R:21:LEU:HB2	1.84	0.42
5:3E:67:LEU:HD23	5:3E:67:LEU:HA	1.92	0.42
5:3E:137:MET:HG2	5:3E:141:GLN:HE21	1.84	0.42
30:3H:207:LYS:HG3	30:3H:208:ASN:N	2.33	0.42
30:3H:209:ARG:HH21	30:3H:213:ASP:N	2.17	0.42
31:3I:243:LYS:HE3	45:FI:120:ASP:OD2	2.19	0.42
10:3Q:6:PHE:CB	45:WG:121:ARG:HH12	2.32	0.42
25:3R:300:LYS:HZ2	46:CL:79:GLY:HA2	1.84	0.42
12:3T:10:ILE:HG23	12:3T:11:LEU:HD22	2.01	0.42
13:3U:190:GLY:O	13:3U:192:ILE:HG12	2.19	0.42
13:3U:255:GLY:HA3	13:3U:281:VAL:HG11	2.01	0.42
13:3U:412:SER:HB2	13:3U:421:VAL:CG1	2.49	0.42
13:3U:422:SER:OG	13:3U:432:TRP:NE1	2.44	0.42
14:3V:119:ILE:HG13	14:3V:120:GLU:N	2.30	0.42
27:4C:231:GLU:O	27:4C:235:ARG:HG3	2.18	0.42
36:5A:127:GLU:HB3	46:ND:276:ARG:NH1	2.34	0.42
36:5D:82:ASP:O	36:5D:85:ARG:NH1	2.52	0.42
10:5Q:103:PHE:CD1	10:5Q:119:CYS:HB3	2.53	0.42
35:5S:93:PRO:HA	35:5S:96:LEU:HD12	2.01	0.42
41:6H:183:TYR:HB3	45:FA:364:PRO:HG2	2.01	0.42
34:6R:525:GLU:CD	34:6R:525:GLU:H	2.26	0.42
46:AB:19:LYS:HG3	46:AB:226:ASN:HB3	2.01	0.42
45:AC:259:LEU:HD21	45:AC:316:SER:OG	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AD:91:VAL:HG21	46:AD:116:VAL:HB	2.00	0.42
46:AD:208:TYR:CE1	46:AD:225:LEU:HD11	2.51	0.42
46:AH:36:TYR:C	46:AH:37:HIS:HD2	2.26	0.42
46:AJ:6:HIS:O	46:AJ:63:ALA:HA	2.18	0.42
45:AK:326:LYS:HG3	46:AN:220:PRO:HD2	2.01	0.42
45:AM:254:GLU:O	45:AM:255:PHE:HD1	2.02	0.42
45:BA:19:ALA:HA	45:BA:22:GLU:OE1	2.19	0.42
45:BA:384:ILE:O	45:BA:387:VAL:HG22	2.19	0.42
46:BF:109:GLY:HA3	46:BF:147:MET:HE2	2.00	0.42
45:BG:252:ILE:HD12	45:BG:252:ILE:H	1.84	0.42
45:BK:258:ASN:CG	45:BK:352:LYS:HD2	2.44	0.42
46:BL:121:ARG:O	46:BL:125:GLU:HG3	2.19	0.42
46:BN:22:GLU:HA	46:BN:81:PHE:HD2	1.84	0.42
46:CB:55:THR:HG23	46:DB:283:ALA:HA	2.00	0.42
46:CB:119:VAL:O	46:CB:123:GLU:OE1	2.37	0.42
46:CB:415:MET:HE2	46:CB:415:MET:HB2	1.96	0.42
45:CC:124:LYS:HE2	45:CC:124:LYS:HB2	1.82	0.42
45:CC:141:VAL:HG21	45:CC:172:TYR:CE1	2.54	0.42
45:CG:79:ARG:O	45:CG:84:ARG:HG2	2.19	0.42
45:CI:2:ARG:NH1	46:CJ:94:GLN:O	2.51	0.42
46:CJ:66:MET:HA	46:CJ:91:VAL:HG23	2.00	0.42
46:CJ:164:MET:HE2	46:CJ:164:MET:HB2	1.77	0.42
45:CK:253:THR:HA	45:CK:256:GLN:HE22	1.83	0.42
46:DB:238:CYS:SG	46:DB:239:CYS:N	2.91	0.42
46:DD:8:GLN:HE21	46:DD:65:LEU:CD2	2.31	0.42
46:DD:69:GLU:CD	46:DD:71:GLY:H	2.26	0.42
45:DE:117:LEU:O	45:DE:121:ARG:HG2	2.19	0.42
45:DE:429:GLU:HG3	45:DE:433:GLU:OE2	2.19	0.42
46:DF:102:ALA:O	46:DF:106:TYR:HB2	2.19	0.42
45:DG:120:ASP:O	45:DG:124:LYS:HG2	2.18	0.42
46:DH:256:ASN:OD1	45:DI:181:VAL:HG12	2.19	0.42
45:DI:63:PRO:HG2	45:DI:87:PHE:CD1	2.53	0.42
45:DK:356:ASN:OD1	45:DK:357:TYR:N	2.52	0.42
45:EA:296:PHE:HE2	45:EA:335:ILE:HG13	1.83	0.42
45:EC:14:ILE:HG12	45:EC:67:PHE:HD1	1.83	0.42
45:EC:203:MET:N	45:EC:203:MET:SD	2.92	0.42
46:ED:205:GLU:OE2	46:ED:205:GLU:HA	2.19	0.42
46:EF:175:VAL:O	46:EF:175:VAL:HG23	2.19	0.42
46:EH:44:LEU:O	46:EH:47:ILE:HG12	2.19	0.42
46:EH:306:ARG:HB2	46:EH:340:TYR:CE1	2.54	0.42
46:EH:309:ARG:NH2	46:EH:426:GLN:O	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EJ:116:VAL:HA	46:EJ:119:VAL:HG12	2.01	0.42
45:EM:141:VAL:HG11	45:EM:172:TYR:CD1	2.53	0.42
45:EM:434:GLU:O	46:EN:391:ARG:NH2	2.52	0.42
46:EN:65:LEU:HD22	46:EN:90:PHE:CE1	2.54	0.42
46:EN:222:TYR:HB3	49:EN:501:GDP:O6	2.18	0.42
46:FB:321:MET:HE2	46:FB:363:MET:HE2	2.00	0.42
46:FB:370:ASN:OD1	46:FB:422:TYR:OH	2.37	0.42
46:FD:287:PRO:HA	46:FD:290:THR:HG22	2.01	0.42
45:FE:312:TYR:HB2	45:FE:343:PHE:HD2	1.84	0.42
46:FF:293:MET:SD	46:FF:365:VAL:HG11	2.59	0.42
45:FG:362:VAL:HG12	45:FG:370:LYS:HZ1	1.83	0.42
45:FI:316:SER:HA	45:FI:352:LYS:O	2.19	0.42
45:FK:69:ASP:O	45:FK:94:SER:HA	2.19	0.42
46:FL:226:ASN:ND2	49:FL:502:GDP:HN1	2.15	0.42
46:FL:248:SER:HA	46:FL:252:LYS:HD2	2.00	0.42
45:FM:102:ASN:HB3	45:FM:105:ARG:HB2	2.01	0.42
45:GA:231:ILE:O	45:GA:235:ILE:HG12	2.18	0.42
45:GE:79:ARG:O	45:GE:84:ARG:HG2	2.19	0.42
45:GE:109:THR:OG1	45:GE:411:GLU:OE2	2.13	0.42
45:GE:222:PRO:HD2	46:GF:324:LYS:HD3	2.00	0.42
46:GF:186:THR:HA	46:GF:189:VAL:HG12	2.01	0.42
46:GF:324:LYS:HG3	46:GF:325:GLU:N	2.33	0.42
45:GI:271:SER:OG	45:GI:301:MET:HA	2.19	0.42
45:GK:332:ILE:HD12	45:GK:351:PHE:CE1	2.54	0.42
46:GL:21:TRP:HA	46:GL:24:ILE:HG22	2.01	0.42
45:HC:98:ASP:OD1	45:HC:99:ALA:N	2.52	0.42
45:HE:156:ARG:HD3	45:HE:156:ARG:HA	1.79	0.42
45:HE:431:ASP:O	45:HE:434:GLU:HG3	2.19	0.42
45:HG:265:ILE:HG12	45:HG:432:TYR:CE1	2.53	0.42
46:HH:248:SER:HA	46:HH:252:LYS:HD2	2.01	0.42
46:HH:316:LEU:HB2	46:HH:366:THR:CG2	2.48	0.42
45:HI:121:ARG:NH1	45:HI:124:LYS:HD2	2.31	0.42
46:HN:137:HIS:NE2	46:HN:166:THR:OG1	2.52	0.42
45:IA:114:ILE:HD13	45:IA:114:ILE:HA	1.87	0.42
46:IB:100:ASN:HD22	46:IB:103:LYS:HB2	1.84	0.42
45:IE:5:ILE:HB	45:IE:135:PHE:CD2	2.53	0.42
45:IE:53:PHE:HD1	45:IE:63:PRO:HA	1.84	0.42
46:IF:237:THR:HG23	46:IF:241:ARG:HH11	1.84	0.42
45:IG:3:GLU:OE1	45:IG:3:GLU:N	2.52	0.42
45:IG:241:SER:HB2	45:IG:249:ASN:OD1	2.19	0.42
45:IG:329:ASN:HA	45:IG:332:ILE:HG22	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:IH:6:HIS:HD2	46:IH:134:GLN:NE2	2.08	0.42
45:II:237:SER:HA	45:II:320:ARG:HH11	1.84	0.42
45:IK:285:GLN:H	45:IK:285:GLN:HG2	1.64	0.42
46:IL:377:MET:CE	46:IL:380:ARG:HE	2.31	0.42
45:IM:147:SER:HB2	45:IM:190:SER:HB3	2.00	0.42
45:IM:153:LEU:O	45:IM:157:LEU:HD23	2.19	0.42
45:JA:206:ASN:OD1	47:JA:501:GTP:N2	2.47	0.42
46:JD:310:TYR:CD1	46:JD:371:SER:HB2	2.54	0.42
45:JE:174:SER:HB2	45:JE:177:VAL:O	2.18	0.42
45:JG:318:MET:HB2	45:JG:376:CYS:SG	2.58	0.42
46:JH:1:MET:HE3	46:JH:2:ARG:N	2.34	0.42
46:JL:73:MET:CB	46:JL:77:ARG:HH21	2.32	0.42
45:JM:434:GLU:O	45:JM:437:ILE:HG12	2.19	0.42
46:JN:276:ARG:HA	46:JN:279:GLN:NE2	2.31	0.42
46:JN:287:PRO:HA	46:JN:329:GLN:NE2	2.33	0.42
45:KA:316:SER:HB3	45:KA:378:ILE:HB	2.01	0.42
46:KB:257:LEU:HD12	46:KB:312:THR:OG1	2.19	0.42
46:KB:416:ASN:HA	46:KB:419:VAL:HG12	2.00	0.42
46:KF:66:MET:HE3	46:KF:66:MET:HB2	1.93	0.42
46:KF:172:SER:OG	46:KF:205:GLU:HG2	2.18	0.42
45:KG:256:GLN:HB3	46:KJ:397:TRP:CZ2	2.54	0.42
45:KI:152:LEU:HD12	45:KI:152:LEU:HA	1.90	0.42
45:KI:268:MET:HB2	45:KI:379:SER:O	2.19	0.42
46:KJ:91:VAL:HG21	46:KJ:116:VAL:HB	2.01	0.42
45:LA:71:GLU:OE2	46:LB:2:ARG:NH2	2.52	0.42
45:LA:75:ILE:HG21	45:LA:94:SER:HB2	2.02	0.42
45:LA:141:VAL:HG12	45:LA:171:ILE:O	2.19	0.42
46:LB:154:LYS:HA	46:LB:157:GLU:OE1	2.18	0.42
45:LC:55:GLU:OE2	45:LC:56:THR:N	2.52	0.42
45:LC:89:PRO:HD3	45:MC:280:LYS:HE2	2.00	0.42
45:LC:107:HIS:ND1	45:LC:107:HIS:O	2.52	0.42
45:LG:296:PHE:CE2	45:LG:335:ILE:HG21	2.54	0.42
46:LJ:35:THR:HB	46:LJ:37:HIS:HE1	1.84	0.42
46:LL:248:SER:HA	46:LL:252:LYS:HD2	2.01	0.42
45:LM:29:GLY:HA3	45:LM:36:MET:HE1	2.00	0.42
46:MB:310:TYR:HB2	46:MB:341:PHE:HD1	1.83	0.42
46:MF:103:LYS:HE2	46:MF:103:LYS:HB3	1.93	0.42
45:MG:174:SER:HA	45:MG:205:ASP:OD1	2.18	0.42
45:MI:200:VAL:HG13	45:MI:268:MET:CE	2.49	0.42
45:MI:222:PRO:O	46:MJ:322:SER:HB2	2.19	0.42
45:MM:107:HIS:O	45:MM:107:HIS:ND1	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NA:54:SER:HB3	45:NA:64:ARG:NH1	2.33	0.42
45:NA:120:ASP:HB3	45:NA:124:LYS:NZ	2.33	0.42
46:NB:199:CYS:O	46:NB:200:MET:HE2	2.19	0.42
46:NF:347:ASN:C	46:NF:347:ASN:HD22	2.27	0.42
45:NG:96:LYS:HD3	46:NH:1:MET:HE2	2.00	0.42
46:NH:31:ASP:OD2	46:NH:35:THR:HB	2.18	0.42
46:NJ:5:VAL:HG12	46:NJ:62:ARG:HD3	2.01	0.42
45:NM:82:THR:HG23	45:NM:83:TYR:CD1	2.54	0.42
46:NN:2:ARG:HG2	46:NN:131:GLN:OE1	2.19	0.42
46:NN:350:LYS:HA	46:NN:350:LYS:HD2	1.87	0.42
45:OA:390:ARG:HG3	45:OA:391:LEU:N	2.33	0.42
45:OA:434:GLU:O	46:OD:391:ARG:NH2	2.46	0.42
46:OD:132:GLY:HA2	46:OD:163:ILE:O	2.18	0.42
46:OH:286:VAL:O	46:OH:290:THR:HG23	2.19	0.42
45:OI:99:ALA:HB3	45:OI:145:THR:HB	1.99	0.42
46:OJ:314:SER:OG	46:OJ:368:VAL:HB	2.19	0.42
46:OL:372:THR:HA	46:OL:422:TYR:CE2	2.53	0.42
46:OL:404:ASP:N	46:OL:404:ASP:OD1	2.52	0.42
45:OM:152:LEU:O	45:OM:156:ARG:HG2	2.18	0.42
46:ON:398:TYR:O	46:ON:403:MET:HB3	2.19	0.42
45:PA:4:VAL:HG22	45:PA:133:GLN:HB2	1.99	0.42
45:PA:167:LEU:HG	45:PA:200:VAL:HB	2.00	0.42
45:PA:221:ARG:HD2	46:PB:322:SER:OG	2.18	0.42
46:PB:201:VAL:HG23	46:PB:301:CYS:SG	2.58	0.42
46:PB:285:THR:HB	46:PB:287:PRO:HD2	2.00	0.42
45:PC:88:HIS:CE1	45:PC:90:GLU:HG3	2.54	0.42
46:PD:163:ILE:HD11	46:PD:251:ARG:HH11	1.84	0.42
45:PE:3:GLU:N	45:PE:3:GLU:OE2	2.52	0.42
45:PI:224:TYR:CE2	46:PJ:323:THR:HG21	2.53	0.42
45:PM:384:ILE:O	45:PM:387:VAL:HG12	2.19	0.42
45:QA:206:ASN:OD1	47:QA:501:GTP:N2	2.51	0.42
45:QA:324:VAL:HG12	45:QA:326:LYS:HG2	2.00	0.42
45:QA:345:ASP:OD1	45:QA:345:ASP:N	2.53	0.42
46:QB:208:TYR:CE1	46:QB:225:LEU:HD11	2.54	0.42
46:QB:391:ARG:HA	46:QB:391:ARG:HD2	1.81	0.42
45:QC:260:VAL:HG13	45:QC:265:ILE:O	2.19	0.42
45:QC:268:MET:HE3	45:QC:379:SER:C	2.44	0.42
45:QE:117:LEU:O	45:QE:121:ARG:HG2	2.18	0.42
45:QE:349:THR:HG23	46:QF:179:VAL:HA	2.01	0.42
46:QJ:97:ALA:HB3	46:QJ:143:THR:HB	2.00	0.42
46:QJ:285:THR:HG23	46:QJ:288:GLU:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QK:187:SER:O	45:QK:191:THR:HG23	2.19	0.42
46:QL:182:PRO:O	46:QL:186:THR:HG23	2.19	0.42
45:RC:122:ILE:HA	45:RC:125:LEU:HG	2.01	0.42
46:RD:2:ARG:HH22	46:RD:247:ASN:ND2	2.16	0.42
46:RD:262:ARG:NH2	46:RD:418:LEU:HA	2.34	0.42
46:RF:391:ARG:HA	46:RF:391:ARG:HD2	1.89	0.42
45:RG:302:MET:HE3	45:RG:302:MET:HB3	1.85	0.42
46:RH:320:ARG:HG3	46:RH:355:ASP:HB2	2.00	0.42
46:RL:20:PHE:HB2	46:RL:233:MET:CE	2.49	0.42
46:SB:208:TYR:HB3	46:SB:212:PHE:CE1	2.54	0.42
46:SD:380:ARG:HA	46:SD:383:GLU:OE1	2.19	0.42
46:SF:328:GLU:OE2	46:SF:329:GLN:HG2	2.18	0.42
46:SF:398:TYR:HD1	46:SF:403:MET:HE1	1.84	0.42
46:SH:67:ASP:OD2	46:SH:72:THR:OG1	2.17	0.42
46:SL:122:LYS:HE2	46:TL:291:GLN:HB2	2.01	0.42
46:SL:248:SER:HA	46:SL:252:LYS:HE2	2.01	0.42
46:SL:407:GLU:HA	46:SL:410:GLU:OE1	2.19	0.42
45:TA:102:ASN:HB3	45:TA:105:ARG:HB2	2.00	0.42
46:TB:248:SER:HA	46:TB:252:LYS:HG3	2.01	0.42
45:TC:74:VAL:O	45:TC:78:VAL:HG23	2.19	0.42
45:TC:280:LYS:HA	45:TC:283:HIS:ND1	2.34	0.42
46:TF:1:MET:N	46:TF:128:ASP:OD1	2.50	0.42
46:TF:253:LEU:HA	46:TF:350:LYS:HZ1	1.83	0.42
46:TF:293:MET:HE1	46:TF:315:ALA:HB2	2.01	0.42
46:TF:396:HIS:HA	46:TF:399:THR:OG1	2.19	0.42
45:TG:416:GLY:O	45:TG:419:SER:OG	2.32	0.42
45:TI:5:ILE:HB	45:TI:135:PHE:CD1	2.54	0.42
45:TI:200:VAL:HG13	45:TI:268:MET:SD	2.59	0.42
45:TI:280:LYS:HB2	45:TI:280:LYS:HE3	1.90	0.42
45:TK:434:GLU:O	45:TK:437:ILE:HG12	2.19	0.42
46:TN:5:VAL:HA	46:TN:62:ARG:HG3	2.01	0.42
46:UB:299:MET:SD	46:UB:299:MET:N	2.89	0.42
46:UB:313:ALA:HB1	46:UB:367:PHE:CE1	2.54	0.42
46:UD:21:TRP:CZ2	46:UD:63:ALA:HB2	2.53	0.42
46:UD:325:GLU:OE2	45:UE:221:ARG:NH1	2.52	0.42
46:UF:318:ARG:HG2	46:UF:357:PRO:HA	2.01	0.42
46:UF:403:MET:HE3	46:UF:404:ASP:H	1.83	0.42
45:UG:88:HIS:CE1	45:VE:280:LYS:HE3	2.54	0.42
45:UG:141:VAL:HG12	45:UG:171:ILE:O	2.19	0.42
45:UG:164:LYS:HD2	45:UG:164:LYS:HA	1.89	0.42
45:UG:245:ASP:OD1	45:UG:245:ASP:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UG:394:LYS:HB2	45:UG:394:LYS:HE2	1.82	0.42
46:UH:118:ASP:HA	46:UH:121:ARG:HH12	1.83	0.42
45:UI:141:VAL:HG12	45:UI:171:ILE:O	2.19	0.42
46:UJ:282:ARG:CZ	46:UJ:282:ARG:HA	2.48	0.42
45:UM:176:GLN:NE2	45:UM:177:VAL:HG23	2.34	0.42
45:UM:356:ASN:OD1	45:UM:357:TYR:N	2.51	0.42
45:VC:141:VAL:HG11	45:VC:172:TYR:HA	2.01	0.42
45:VG:224:TYR:CE1	46:VH:323:THR:HG21	2.54	0.42
46:VH:312:THR:HG22	46:VH:370:ASN:HB3	2.00	0.42
45:VI:178:SER:OG	46:VJ:347:ASN:HB3	2.19	0.42
45:VI:222:PRO:HD2	46:VJ:324:LYS:CE	2.49	0.42
45:VI:317:MET:O	45:VI:318:MET:HE2	2.19	0.42
46:VJ:178:THR:HB	46:VJ:181:GLU:HG3	2.01	0.42
45:VK:352:LYS:HZ2	46:VN:178:THR:HG23	1.84	0.42
46:VL:285:THR:O	46:VL:289:LEU:HD23	2.19	0.42
46:VL:379:LYS:HE3	46:VL:379:LYS:HB2	1.68	0.42
45:VM:68:LEU:HD21	45:VM:118:CYS:SG	2.59	0.42
45:WA:214:ARG:NH2	45:WA:220:GLU:HA	2.33	0.42
45:WA:260:VAL:HB	46:WD:397:TRP:CH2	2.53	0.42
45:WG:166:LYS:HD2	45:WG:197:HIS:O	2.19	0.42
45:WG:211:ASP:HA	45:WG:214:ARG:CG	2.48	0.42
45:WG:268:MET:CE	45:WG:378:ILE:HG22	2.48	0.42
45:WI:1:MET:HE2	46:WL:70:PRO:HG2	2.01	0.42
45:WK:429:GLU:O	45:WK:433:GLU:OE1	2.36	0.42
46:WL:105:HIS:HD2	46:WL:146:GLY:O	2.02	0.42
45:WM:18:ASN:O	45:WM:22:GLU:OE1	2.36	0.42
2:0B:164:THR:HG22	2:0B:164:THR:O	2.19	0.42
5:0E:4:ASP:N	5:0E:4:ASP:OD1	2.52	0.42
6:0F:32:ILE:HD13	45:DE:84:ARG:HB2	2.00	0.42
6:0F:64:TYR:CG	6:0F:65:LYS:N	2.88	0.42
6:0F:163:ASP:OD1	6:0F:164:GLU:N	2.52	0.42
9:0N:23:TRP:O	9:0N:27:GLU:HG2	2.19	0.42
9:0N:196:MET:HA	9:0N:196:MET:HE2	2.00	0.42
10:0Q:61:ALA:HB3	10:0Q:62:PRO:HD3	2.01	0.42
11:0S:261:LEU:HD12	46:AB:424:GLN:HG3	2.01	0.42
13:0U:373:ASP:HB3	13:0U:375:LYS:HZ1	1.84	0.42
13:0U:494:LYS:HB2	13:0U:508:THR:HG23	2.01	0.42
3:1C:62:TYR:HD2	3:1C:63:MET:HE2	1.84	0.42
4:1D:102:ALA:O	4:1D:103:GLU:HG3	2.18	0.42
17:1F:166:VAL:HG22	45:GK:114:ILE:HD11	2.00	0.42
7:1G:77:ASN:OD1	9:2N:29:LYS:HB3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:1K:237:GLU:O	20:1K:241:LEU:HG	2.19	0.42
21:1L:282:LYS:NZ	46:BH:355:ASP:HB3	2.34	0.42
21:1L:542:ILE:HG12	21:1L:581:TRP:CD1	2.53	0.42
21:1L:573:THR:HG22	21:1L:574:THR:O	2.19	0.42
21:1L:594:GLN:HE22	25:1R:109:SER:CB	2.23	0.42
21:1L:854:ASP:OD1	21:1L:855:LEU:N	2.52	0.42
9:1N:26:ASP:HA	9:1N:29:LYS:HE3	2.00	0.42
24:1P:187:GLU:O	24:1P:191:GLU:HG2	2.19	0.42
25:1R:156:LYS:HE3	25:1R:166:TYR:CD2	2.49	0.42
25:1R:259:LEU:HD21	25:1R:275:LEU:HD11	2.00	0.42
25:1R:413:ASN:O	25:1R:442:ASN:HB3	2.20	0.42
13:1U:516:TYR:HD2	13:1U:524:ALA:HB3	1.84	0.42
26:1W:141:GLN:O	26:1W:145:GLU:HG2	2.19	0.42
16:2B:29:LEU:HG	16:2B:33:MET:HE2	2.01	0.42
27:2C:238:PHE:HB2	27:2C:287:PHE:CE2	2.54	0.42
20:2K:379:ARG:NH1	45:GG:282:TYR:HB2	2.33	0.42
21:2L:658:ARG:HH12	46:BN:45:GLU:N	2.17	0.42
21:2L:791:LEU:HA	21:2L:794:GLU:HG2	2.01	0.42
22:2M:171:ARG:HH21	22:2M:207:ASP:HA	1.84	0.42
22:2M:264:ILE:HD11	22:2M:306:LEU:HB3	2.01	0.42
9:2N:16:ILE:HG13	9:2N:17:GLY:N	2.34	0.42
25:2R:128:TYR:HB2	25:2R:133:SER:OG	2.19	0.42
12:2T:74:ILE:HD13	12:2T:143:PHE:HD1	1.83	0.42
12:2T:102:HIS:ND1	12:2T:219:GLU:OE1	2.40	0.42
12:2T:103:VAL:O	12:2T:103:VAL:HG13	2.18	0.42
14:2V:198:PHE:HB3	14:2V:265:VAL:HG13	2.01	0.42
16:3B:71:THR:HG22	16:3B:81:SER:HB3	2.01	0.42
27:3C:67:LYS:HZ1	45:LA:81:GLY:HA2	1.84	0.42
31:3I:287:ARG:HH12	45:FG:59:GLY:HA2	1.84	0.42
21:3L:179:THR:OG1	45:CA:365:GLY:HA3	2.18	0.42
23:3O:265:PHE:HA	23:3O:268:ASN:ND2	2.33	0.42
14:3V:22:ARG:NH2	45:MA:422:ARG:HB3	2.32	0.42
14:3V:176:GLN:O	14:3V:180:LYS:HG2	2.19	0.42
15:3X:65:ASN:ND2	15:3X:68:ARG:HH21	2.17	0.42
10:4Q:73:LEU:HD23	10:4Q:73:LEU:HA	1.77	0.42
36:5C:75:TYR:HB2	46:NJ:320:ARG:HH12	1.84	0.42
36:5D:102:TYR:HA	45:KM:393:HIS:CD2	2.53	0.42
37:5E:149:ARG:O	37:5E:152:GLN:HG3	2.19	0.42
34:5R:16:CYS:SG	34:5R:18:PRO:HD3	2.59	0.42
35:5S:123:GLY:O	35:5S:127:LEU:HD23	2.19	0.42
40:6G:303:MET:HE3	46:VB:296:ALA:CB	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:6Q:14:LEU:HB2	10:6Q:25:TRP:HE1	1.84	0.42
34:6R:397:SER:OG	46:EN:276:ARG:HB2	2.20	0.42
34:6R:485:TYR:HD1	34:6R:489:ASP:OD2	2.03	0.42
34:6R:549:MET:O	34:6R:553:ILE:HG12	2.19	0.42
34:7R:542:TYR:CE2	34:7R:551:LEU:HD11	2.55	0.42
46:AB:6:HIS:O	46:AB:63:ALA:HA	2.19	0.42
46:AB:288:GLU:O	46:AB:291:GLN:HG3	2.18	0.42
46:AB:313:ALA:HB1	46:AB:367:PHE:CE1	2.53	0.42
45:AC:102:ASN:ND2	45:AC:407:TRP:O	2.52	0.42
45:AC:223:THR:HG23	45:AC:225:THR:H	1.84	0.42
45:AC:224:TYR:CD1	47:AC:501:GTP:C6	3.07	0.42
46:AD:104:GLY:O	46:AD:147:MET:HG2	2.19	0.42
45:AE:264:ARG:HA	45:AE:264:ARG:HD3	1.72	0.42
46:AF:36:TYR:CD2	46:AF:44:LEU:HD21	2.54	0.42
45:AG:161:TYR:HB3	45:AG:164:LYS:HG2	2.00	0.42
45:AG:339:ARG:HG2	45:AG:339:ARG:HH11	1.84	0.42
46:AH:132:GLY:HA3	46:AH:163:ILE:HB	2.01	0.42
45:AK:210:TYR:HB3	46:AL:324:LYS:HE3	2.00	0.42
45:AK:332:ILE:HD12	45:AK:351:PHE:HE2	1.84	0.42
45:AM:87:PHE:HB3	45:AM:92:LEU:HD11	2.00	0.42
46:AN:295:ASP:OD2	46:AN:296:ALA:N	2.52	0.42
45:BC:107:HIS:ND1	45:BC:107:HIS:O	2.53	0.42
45:BC:250:VAL:HG13	45:BC:254:GLU:HG3	2.01	0.42
46:BD:181:GLU:N	46:BD:182:PRO:HD2	2.34	0.42
45:BE:231:ILE:O	45:BE:235:ILE:HG12	2.20	0.42
45:BE:296:PHE:CZ	45:BE:377:MET:HE1	2.54	0.42
46:BF:201:VAL:HG23	46:BF:301:CYS:SG	2.58	0.42
45:BG:152:LEU:O	45:BG:155:GLU:HG3	2.19	0.42
46:BH:391:ARG:HA	46:BH:391:ARG:HD2	1.79	0.42
46:BN:299:MET:HG3	46:BN:305:PRO:HG3	2.01	0.42
45:CA:188:ILE:HD11	45:CA:391:LEU:HB3	2.00	0.42
46:CB:164:MET:HE3	46:CB:164:MET:HA	2.01	0.42
46:CF:86:ARG:CG	46:DF:281:TYR:CE1	3.02	0.42
45:CG:203:MET:HG3	45:CG:384:ILE:HD11	2.01	0.42
45:CG:338:LYS:HD3	45:CG:340:THR:HG22	2.01	0.42
45:CI:9:VAL:HG13	45:CI:139:ASN:HB3	2.00	0.42
45:CI:14:ILE:HD11	45:CI:69:ASP:HB2	2.00	0.42
46:CL:133:PHE:CD1	46:CL:155:VAL:HG11	2.54	0.42
46:CL:287:PRO:O	46:CL:291:GLN:OE1	2.36	0.42
46:CL:287:PRO:HG3	46:CL:329:GLN:NE2	2.34	0.42
46:DH:11:GLN:NE2	49:DH:501:GDP:O3B	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DH:11:GLN:HB3	46:DH:72:THR:HG21	2.00	0.42
46:DH:289:LEU:HD13	46:DH:365:VAL:HG23	2.00	0.42
45:DI:308:ARG:HG3	45:DI:308:ARG:HH11	1.85	0.42
45:DI:317:MET:O	45:DI:318:MET:HE2	2.19	0.42
46:DL:287:PRO:HA	46:DL:329:GLN:NE2	2.33	0.42
45:DM:265:ILE:HG22	45:DM:432:TYR:CE1	2.54	0.42
45:EA:31:GLN:HB2	45:EA:35:GLN:O	2.19	0.42
46:EB:2:ARG:HH22	45:EC:97:GLU:HA	1.84	0.42
45:EC:260:VAL:H	46:ED:397:TRP:HH2	1.66	0.42
45:EG:211:ASP:HA	45:EG:214:ARG:HG2	2.00	0.42
46:EH:153:SER:HB2	46:EH:191:GLN:HE21	1.83	0.42
46:EJ:313:ALA:HB1	46:EJ:367:PHE:HE1	1.84	0.42
45:EK:194:LEU:O	45:EK:198:THR:HG22	2.19	0.42
45:EK:324:VAL:HG12	45:EK:326:LYS:HG2	2.00	0.42
46:EL:139:LEU:HD22	46:EL:170:VAL:HG12	2.01	0.42
45:EM:33:ASP:HA	45:EM:85:GLN:HG3	2.01	0.42
45:EM:52:PHE:HZ	45:EM:239:THR:HG21	1.83	0.42
45:EM:208:ALA:O	45:EM:212:ILE:HG12	2.18	0.42
46:EN:12:CYS:SG	46:EN:138:SER:HB2	2.59	0.42
46:EN:142:GLY:HA2	46:EN:184:ASN:OD1	2.19	0.42
46:EN:398:TYR:CD2	46:EN:408:PHE:HZ	2.37	0.42
46:FD:105:HIS:CD2	46:FD:150:LEU:HB2	2.54	0.42
46:FD:318:ARG:HH11	46:FD:358:PRO:HG3	1.84	0.42
46:FD:385:PHE:HE2	46:FD:412:GLU:HB3	1.85	0.42
45:FE:217:LEU:HD23	45:FE:217:LEU:HA	1.79	0.42
46:FH:244:GLY:HA3	46:FH:354:CYS:HA	2.01	0.42
46:FN:391:ARG:HA	46:FN:391:ARG:HD2	1.80	0.42
45:GA:32:PRO:HB3	45:GA:83:TYR:CE1	2.54	0.42
45:GA:172:TYR:CD2	45:GA:203:MET:HG3	2.54	0.42
45:GE:229:ARG:HH12	45:GE:363:VAL:HG11	1.84	0.42
45:GI:135:PHE:HB2	45:GI:166:LYS:HG2	2.00	0.42
46:GJ:68:LEU:HG	46:GJ:147:MET:HE1	2.01	0.42
46:GN:3:GLU:HG3	46:GN:62:ARG:HH12	1.84	0.42
46:HB:130:LEU:HD11	46:HB:132:GLY:O	2.19	0.42
45:HE:179:THR:HG23	46:HF:351:SER:OG	2.19	0.42
46:HF:10:GLY:O	46:HF:14:ASN:ND2	2.52	0.42
46:HF:293:MET:HE3	46:HF:367:PHE:HB2	2.00	0.42
45:HG:88:HIS:CE1	45:HG:90:GLU:HG3	2.54	0.42
46:HH:32:PRO:HG3	46:HH:81:PHE:CE1	2.54	0.42
46:HH:263:LEU:HG	46:HH:422:TYR:CE2	2.54	0.42
45:HK:141:VAL:HG22	45:HK:187:SER:HA	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IA:20:CYS:HB2	45:IA:24:PHE:CZ	2.53	0.42
45:IA:119:LEU:HD11	45:IA:156:ARG:HG2	2.00	0.42
45:IA:315:CYS:SG	45:IA:377:MET:HE1	2.59	0.42
45:IC:3:GLU:OE2	45:IC:129:CYS:HB3	2.19	0.42
45:IC:17:GLY:HA2	45:IC:20:CYS:SG	2.58	0.42
45:IE:329:ASN:HA	45:IE:332:ILE:HG22	2.02	0.42
45:IG:370:LYS:HD2	45:IG:370:LYS:O	2.18	0.42
46:IH:1:MET:HE3	46:IH:1:MET:HA	2.02	0.42
45:II:72:PRO:O	45:II:76:ASP:HB2	2.19	0.42
45:II:74:VAL:HA	45:II:77:GLU:CD	2.44	0.42
45:II:271:SER:HA	45:II:302:MET:HE2	2.00	0.42
45:IK:121:ARG:HA	45:IK:121:ARG:HE	1.85	0.42
45:IK:253:THR:HG23	45:IK:254:GLU:OE1	2.19	0.42
45:IM:186:ASN:OD1	45:IM:187:SER:N	2.52	0.42
46:IN:67:ASP:O	46:IN:92:PHE:HA	2.18	0.42
46:IN:104:GLY:C	46:IN:147:MET:HE2	2.44	0.42
46:IN:119:VAL:O	46:IN:123:GLU:OE1	2.37	0.42
45:JA:395:PHE:CD2	45:JA:422:ARG:HD3	2.53	0.42
46:JF:190:HIS:CD2	46:JF:411:ALA:HA	2.44	0.42
45:JG:256:GLN:HB3	46:JJ:397:TRP:CZ2	2.55	0.42
46:JH:390:ARG:CZ	46:JH:390:ARG:HB3	2.49	0.42
46:JJ:402:GLY:C	46:JJ:403:MET:HE2	2.45	0.42
46:JL:16:ILE:HD13	46:JL:226:ASN:OD1	2.18	0.42
46:JL:73:MET:O	46:JL:76:VAL:HG12	2.20	0.42
46:JL:187:LEU:HD21	46:JL:408:PHE:CD2	2.54	0.42
46:JL:403:MET:HE2	46:JL:407:GLU:OE2	2.19	0.42
45:JM:20:CYS:HA	45:JM:232:ALA:CB	2.49	0.42
45:JM:419:SER:O	45:JM:422:ARG:N	2.52	0.42
46:JN:324:LYS:HB2	46:JN:328:GLU:OE1	2.19	0.42
45:KG:42:ILE:HG13	45:KG:43:GLY:N	2.34	0.42
45:KK:404:PHE:CE1	46:KL:259:PRO:HA	2.54	0.42
45:LA:272:TYR:N	45:LA:302:MET:HE1	2.34	0.42
46:LB:121:ARG:O	46:LB:125:GLU:HG2	2.18	0.42
45:LG:27:GLU:HG2	45:LG:243:ARG:HH12	1.84	0.42
45:LK:96:LYS:HB3	45:LK:97:GLU:OE1	2.19	0.42
45:LK:397:LEU:HD23	46:LL:346:PRO:HD3	2.00	0.42
45:LM:387:VAL:HG12	45:LM:390:ARG:NH2	2.34	0.42
45:MA:261:PRO:HA	46:MD:394:PHE:CE2	2.54	0.42
45:MA:401:LYS:HZ1	46:MB:344:TRP:CG	2.37	0.42
45:MC:64:ARG:NH1	45:MC:129:CYS:SG	2.92	0.42
46:MF:404:ASP:OD1	46:MF:406:MET:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MG:210:TYR:CE1	45:MG:227:LEU:HD21	2.54	0.42
45:MI:101:ASN:OD1	46:MJ:252:LYS:HE3	2.19	0.42
46:MN:1:MET:HG3	46:MN:2:ARG:N	2.32	0.42
45:NA:87:PHE:HB3	45:NA:92:LEU:HD11	2.00	0.42
45:NA:96:LYS:HA	45:NA:96:LYS:HD2	1.83	0.42
46:NB:39:ASP:H	46:NB:43:GLN:HE22	1.66	0.42
46:NB:252:LYS:HG2	46:NB:256:ASN:ND2	2.32	0.42
46:NB:269:GLY:HA2	46:NB:300:MET:SD	2.59	0.42
46:ND:95:THR:OG1	46:ND:108:GLU:OE2	2.36	0.42
46:ND:380:ARG:HA	46:ND:383:GLU:CD	2.43	0.42
46:NF:211:CYS:HB2	46:NF:217:LEU:HD21	2.01	0.42
45:NG:127:ASP:OD1	45:NG:128:ASN:N	2.52	0.42
46:NH:39:ASP:OD1	46:NH:40:SER:N	2.52	0.42
45:NI:3:GLU:HG2	45:NI:132:LEU:HA	2.01	0.42
46:NL:2:ARG:HB3	46:NL:131:GLN:HG3	2.01	0.42
45:NM:37:PRO:HB2	45:NM:39:ASP:OD1	2.19	0.42
45:OA:222:PRO:HG2	46:OB:324:LYS:HD2	2.01	0.42
46:OB:306:ARG:HD2	46:OB:340:TYR:CE2	2.54	0.42
45:OC:288:VAL:HG11	45:OC:323:VAL:HG13	2.01	0.42
46:OD:248:SER:HA	46:OD:252:LYS:HE3	2.00	0.42
45:OE:253:THR:O	45:OE:256:GLN:NE2	2.52	0.42
45:OE:394:LYS:O	45:OE:398:MET:HG2	2.20	0.42
45:OG:115:VAL:HG11	45:OG:152:LEU:HD23	2.01	0.42
45:OG:119:LEU:HA	45:OG:122:ILE:HG22	2.01	0.42
46:OH:164:MET:HE3	46:OH:164:MET:HB3	1.87	0.42
46:OH:207:LEU:HA	46:OH:210:ILE:HG22	2.00	0.42
45:OI:3:GLU:OE2	45:OI:131:GLY:N	2.52	0.42
45:OI:336:LYS:HA	45:OI:336:LYS:HD3	1.82	0.42
46:OL:35:THR:CG2	46:OL:37:HIS:CE1	3.01	0.42
46:OL:100:ASN:HB3	46:OL:103:LYS:HB3	2.01	0.42
46:OL:141:GLY:O	46:OL:145:SER:OG	2.31	0.42
45:OM:324:VAL:HG12	45:OM:326:LYS:HG2	2.02	0.42
46:ON:109:GLY:O	46:ON:113:ILE:HG23	2.18	0.42
45:PA:2:ARG:NH2	46:PD:69:GLU:HG2	2.32	0.42
45:PC:258:ASN:CG	45:PC:352:LYS:HE3	2.44	0.42
45:PE:70:LEU:HD13	45:PE:145:THR:OG1	2.19	0.42
45:PE:141:VAL:HG22	45:PE:187:SER:HA	2.01	0.42
46:PF:86:ARG:O	46:PF:89:ASN:HB2	2.19	0.42
45:PG:278:ALA:HA	45:PG:369:ALA:HB2	2.00	0.42
45:PG:319:TYR:CE2	45:PG:328:VAL:HG22	2.54	0.42
46:PJ:5:VAL:HG12	46:PJ:62:ARG:HD3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PJ:389:PHE:HD2	46:PJ:390:ARG:NH2	2.17	0.42
45:PK:120:ASP:HB3	45:PK:124:LYS:HZ3	1.84	0.42
45:PK:229:ARG:HH12	45:PK:363:VAL:HG11	1.84	0.42
46:PL:167:PHE:CD1	46:PL:233:MET:HE1	2.54	0.42
46:PN:2:ARG:HB3	46:PN:131:GLN:HE21	1.85	0.42
46:PN:164:MET:O	46:PN:197:ASP:HB2	2.19	0.42
46:PN:232:ALA:HB1	46:PN:268:ILE:HD12	2.01	0.42
45:QC:171:ILE:HG13	45:QC:171:ILE:O	2.19	0.42
45:QG:245:ASP:OD2	45:QG:246:GLY:N	2.52	0.42
46:QH:183:TYR:O	46:QH:187:LEU:HD13	2.18	0.42
45:QI:89:PRO:HG2	45:RI:280:LYS:HD3	2.00	0.42
45:QI:319:TYR:CE2	45:QI:375:VAL:HB	2.54	0.42
46:QJ:258:ILE:O	46:QJ:258:ILE:HG13	2.19	0.42
46:QJ:394:PHE:HD1	46:QJ:397:TRP:CH2	2.36	0.42
45:QK:352:LYS:HZ1	46:QL:179:VAL:N	1.99	0.42
46:QL:69:GLU:HA	46:QL:70:PRO:HD3	1.85	0.42
46:QL:225:LEU:HD13	46:QL:225:LEU:HA	1.82	0.42
45:QM:171:ILE:HG22	45:QM:204:LEU:HB2	2.01	0.42
46:RB:66:MET:SD	46:RB:147:MET:HE3	2.59	0.42
45:RC:422:ARG:HH11	45:RC:425:LEU:HD12	1.83	0.42
46:RD:65:LEU:HD22	46:RD:90:PHE:HE1	1.84	0.42
46:RD:203:ASP:OD2	46:RD:205:GLU:HB3	2.19	0.42
45:RE:71:GLU:HA	45:RE:72:PRO:HD3	1.85	0.42
45:RE:184:PRO:O	45:RE:188:ILE:HG12	2.19	0.42
45:RE:194:LEU:HB2	45:RE:198:THR:OG1	2.19	0.42
45:RE:261:PRO:HA	46:RF:394:PHE:HD1	1.84	0.42
46:RF:147:MET:O	46:RF:151:LEU:HD23	2.19	0.42
45:RG:4:VAL:HG12	45:RG:133:GLN:HB2	2.01	0.42
45:RG:383:ALA:O	45:RG:386:GLU:HG2	2.19	0.42
46:RH:60:VAL:HG11	46:RH:86:ARG:HD2	2.00	0.42
46:RH:105:HIS:CE1	46:RH:150:LEU:HD12	2.53	0.42
46:RH:259:PRO:HA	45:RI:404:PHE:CE1	2.55	0.42
46:RH:377:MET:O	46:RH:380:ARG:HG2	2.19	0.42
46:RJ:153:SER:O	46:RJ:157:GLU:OE1	2.37	0.42
46:RJ:205:GLU:HA	46:RJ:208:TYR:HD2	1.84	0.42
46:RL:271:ALA:HB3	46:RL:293:MET:CE	2.49	0.42
46:RL:379:LYS:O	46:RL:383:GLU:OE1	2.37	0.42
45:RM:118:CYS:O	45:RM:122:ILE:HG12	2.19	0.42
46:SB:4:ILE:HG23	46:SB:50:TYR:HE2	1.83	0.42
46:SB:230:SER:HA	46:SB:233:MET:HE3	2.01	0.42
45:SC:11:GLN:HE21	47:SC:501:GTP:PB	2.42	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SC:387:VAL:HG12	45:SC:390:ARG:NH2	2.31	0.42
45:SG:333:ALA:O	45:SG:337:THR:HG23	2.18	0.42
46:SJ:258:ILE:HG13	46:SJ:258:ILE:O	2.20	0.42
45:SK:137:VAL:HG13	45:SK:168:GLY:HA2	2.02	0.42
46:SL:318:ARG:HG2	46:SL:358:PRO:HD3	2.01	0.42
46:SN:10:GLY:O	46:SN:14:ASN:ND2	2.52	0.42
46:SN:260:PHE:HB2	46:SN:263:LEU:HD13	2.01	0.42
46:TB:322:SER:HB2	45:TC:223:THR:HA	2.00	0.42
45:TC:88:HIS:ND1	45:TC:89:PRO:HD2	2.33	0.42
45:TC:192:HIS:ND1	45:TC:421:ALA:HA	2.33	0.42
45:TE:10:GLY:O	45:TE:14:ILE:HG12	2.19	0.42
45:TE:315:CYS:SG	45:TE:377:MET:HE2	2.59	0.42
46:TH:36:TYR:CD2	46:TH:44:LEU:HD21	2.54	0.42
46:TH:51:TYR:O	46:TH:62:ARG:NH2	2.43	0.42
46:TH:58:ARG:HH21	46:UH:281:TYR:HA	1.84	0.42
46:TH:318:ARG:O	46:TH:363:MET:HA	2.20	0.42
46:TH:322:SER:HG	46:TH:325:GLU:CD	2.27	0.42
45:TK:201:ALA:HB3	45:TK:267:PHE:CD1	2.52	0.42
45:TK:234:VAL:O	45:TK:238:LEU:HD23	2.19	0.42
46:TL:216:LYS:HB2	46:TL:216:LYS:HE3	1.80	0.42
45:TM:9:VAL:HG13	45:TM:139:ASN:HB3	2.02	0.42
45:TM:53:PHE:CE2	45:TM:63:PRO:HG3	2.54	0.42
45:UA:19:ALA:HA	45:UA:22:GLU:OE1	2.18	0.42
46:UB:375:GLN:HG3	46:UB:423:GLN:NE2	2.33	0.42
45:UC:104:ALA:HA	45:UC:413:MET:HE3	2.01	0.42
46:UD:316:LEU:HB2	46:UD:366:THR:HG22	2.02	0.42
45:UE:217:LEU:HD21	45:UE:368:LEU:HD22	2.00	0.42
45:UE:315:CYS:O	45:UE:351:PHE:HA	2.18	0.42
46:UH:323:THR:HG22	46:UH:353:ILE:HG13	2.01	0.42
46:UJ:166:THR:HG21	46:UJ:192:LEU:HD11	2.01	0.42
45:UK:50:ASN:O	45:UK:64:ARG:NH2	2.43	0.42
45:UK:408:TYR:HB3	45:UK:413:MET:HG3	2.01	0.42
46:UL:31:ASP:OD2	46:UL:37:HIS:ND1	2.52	0.42
46:UL:217:LEU:HB2	46:UL:220:PRO:HG3	2.01	0.42
45:UM:271:SER:HB3	45:UM:377:MET:SD	2.59	0.42
46:UN:318:ARG:HE	46:UN:364:ALA:HB3	1.84	0.42
45:VA:71:GLU:HG3	45:VA:98:ASP:HB2	2.01	0.42
45:VA:401:LYS:HB2	45:VA:401:LYS:HE3	1.71	0.42
45:VC:107:HIS:ND1	45:VC:107:HIS:O	2.52	0.42
45:VE:325:PRO:HB2	46:VH:208:TYR:OH	2.18	0.42
45:VE:387:VAL:HA	45:VE:390:ARG:HG2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VF:394:PHE:HD2	46:VF:397:TRP:CZ3	2.37	0.42
45:VG:261:PRO:HA	46:VJ:394:PHE:HD2	1.83	0.42
46:VH:9:GLY:HA2	46:VH:66:MET:O	2.19	0.42
46:VH:190:HIS:HD2	46:VH:411:ALA:HA	1.83	0.42
45:VK:236:SER:HA	45:VK:239:THR:HG22	2.02	0.42
45:VK:372:MET:N	45:VK:372:MET:HE2	2.35	0.42
45:WC:190:SER:O	45:WC:194:LEU:HG	2.18	0.42
46:WD:112:LEU:HD12	46:WD:147:MET:HE1	2.00	0.42
46:WD:290:THR:CG2	46:WD:329:GLN:HE21	2.32	0.42
46:WD:326:VAL:O	46:WD:330:MET:HG2	2.19	0.42
45:WE:394:LYS:NZ	46:WF:347:ASN:OD1	2.52	0.42
45:WI:75:ILE:O	45:WI:79:ARG:HG2	2.19	0.42
45:WK:70:LEU:HB3	45:WK:97:GLU:O	2.19	0.42
45:WK:231:ILE:O	45:WK:235:ILE:HG12	2.19	0.42
46:WL:83:GLN:HE21	46:WL:84:LEU:HD22	1.83	0.42
45:WM:167:LEU:HG	45:WM:200:VAL:HB	2.00	0.42
46:WN:31:ASP:OD1	46:WN:34:GLY:N	2.53	0.42
45:CE:107:HIS:ND1	45:CE:107:HIS:O	2.52	0.42
45:DC:239:THR:HG23	45:DC:243:ARG:HE	1.84	0.42
45:DC:288:VAL:HG21	45:DC:327:ASP:CB	2.49	0.42
1:0A:35:TYR:HD1	1:0A:47:PRO:HA	1.83	0.42
2:0B:269:PRO:C	2:0B:271:ASN:H	2.26	0.42
4:0D:93:GLN:O	4:0D:96:VAL:HG23	2.19	0.42
8:0H:406:TYR:CD2	8:1H:79:ILE:HD13	2.49	0.42
12:0T:285:ARG:NH2	13:0U:51:LEU:HA	2.34	0.42
13:0U:8:GLN:N	13:0U:8:GLN:OE1	2.52	0.42
14:0V:24:ARG:HD3	45:MM:430:LYS:NZ	2.35	0.42
1:1A:36:ARG:NH1	45:ME:77:GLU:HG2	2.35	0.42
16:1B:415:LEU:HD11	16:1B:427:SER:HB2	2.01	0.42
3:1C:55:LYS:HB2	3:1C:60:ILE:CD1	2.49	0.42
17:1F:54:ALA:O	17:1F:58:LEU:HB3	2.18	0.42
8:1H:86:LYS:CE	45:HK:369:ALA:HB1	2.48	0.42
8:1H:227:GLN:HE22	8:1H:232:GLN:NE2	2.17	0.42
8:1H:283:GLU:HA	8:1H:286:LYS:CE	2.49	0.42
19:1J:262:VAL:HG22	45:II:372:MET:SD	2.59	0.42
19:1J:359:GLU:CD	19:1J:361:ASP:H	2.26	0.42
20:1K:219:GLN:O	20:1K:222:MET:HG3	2.18	0.42
21:1L:901:LYS:N	46:CB:320:ARG:HH12	2.18	0.42
22:1M:256:MET:HE3	22:1M:340:ARG:NH1	2.34	0.42
23:1O:147:VAL:HG12	23:3O:474:LEU:HB2	2.02	0.42
24:1P:303:GLN:O	24:1P:307:LYS:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:1P:392:LYS:HD3	45:TA:370:LYS:HE3	2.01	0.42
10:1Q:33:HIS:CE1	10:1Q:35:LYS:HE3	2.54	0.42
10:1Q:54:VAL:HG11	10:1Q:86:TYR:HB2	1.99	0.42
25:1R:92:TRP:CZ3	45:AC:370:LYS:HG3	2.54	0.42
25:1R:96:ASP:OD2	25:1R:97:ARG:N	2.51	0.42
11:1S:243:MET:HA	11:1S:246:GLU:OE2	2.19	0.42
11:1S:248:LEU:O	11:1S:248:LEU:HD23	2.18	0.42
13:1U:77:TYR:HD2	13:1U:80:PHE:HE2	1.67	0.42
13:1U:592:SER:OG	13:1U:600:PHE:HB2	2.18	0.42
14:1V:127:GLN:O	14:1V:128:GLN:HB2	2.19	0.42
15:1X:81:ARG:HE	46:MF:276:ARG:HB2	1.85	0.42
15:1X:124:TYR:CE2	46:MD:362:LYS:NZ	2.86	0.42
1:2A:95:LEU:HD11	1:2A:105:HIS:HB2	2.01	0.42
16:2B:28:SER:O	16:2B:32:LEU:HD23	2.19	0.42
5:2E:97:LYS:HG3	5:2E:101:LEU:HD23	2.00	0.42
5:2E:182:GLU:OE2	5:2E:182:GLU:HA	2.19	0.42
28:2F:81:LYS:NZ	46:GF:128:ASP:HA	2.34	0.42
20:2K:352:LYS:HZ3	20:2K:356:ARG:HH22	1.68	0.42
20:2K:401:LYS:HE3	46:FH:56:GLY:O	2.18	0.42
20:2K:450:LYS:O	20:2K:453:GLN:N	2.51	0.42
21:2L:369:GLN:O	21:2L:371:GLU:N	2.52	0.42
21:2L:781:MET:O	21:2L:782:LYS:HG2	2.19	0.42
22:2M:257:ILE:HD11	22:2M:317:PHE:CE2	2.55	0.42
23:2O:218:GLU:HA	23:2O:221:ARG:HG2	2.02	0.42
11:2S:180:GLU:OE2	11:2S:182:LEU:N	2.53	0.42
11:2S:256:LEU:CB	11:2S:309:MET:HG2	2.48	0.42
13:2U:343:ASP:CG	13:2U:345:ARG:HE	2.26	0.42
16:3B:27:GLU:O	16:3B:31:ARG:HG2	2.20	0.42
16:3B:113:ASN:OD1	16:3B:114:GLY:N	2.52	0.42
27:3C:181:ILE:HD11	27:3C:186:HIS:HB3	2.00	0.42
30:3H:176:LYS:HE3	45:AE:324:VAL:CG2	2.49	0.42
31:3I:197:GLN:HE21	45:FK:123:ARG:HA	1.84	0.42
31:3I:202:GLY:O	45:GK:340:THR:HG21	2.19	0.42
13:3U:41:ARG:HH12	13:3U:46:ARG:NH2	2.16	0.42
27:4C:184:ASP:O	27:4C:188:ILE:HG12	2.19	0.42
30:4H:206:SER:O	30:4H:207:LYS:HB2	2.18	0.42
34:4R:461:LYS:HZ1	46:FF:218:THR:HG21	1.84	0.42
34:4R:604:SER:HA	34:4R:607:VAL:HG12	2.01	0.42
36:5C:33:ALA:HA	36:5C:36:ARG:HH21	1.83	0.42
37:5E:104:MET:HG3	37:5E:105:LYS:N	2.33	0.42
37:5H:56:VAL:HA	46:ON:276:ARG:NH1	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:5Q:53:ASN:OD1	45:AK:400:ALA:HA	2.20	0.42
34:5R:429:LYS:HE2	34:5R:429:LYS:HB3	1.81	0.42
34:5R:518:SER:O	34:5R:520:PRO:HD3	2.18	0.42
39:6F:132:HIS:CE1	46:IH:359:LYS:HZ3	2.37	0.42
10:6Q:20:LYS:HA	10:6Q:20:LYS:HD2	1.75	0.42
34:7R:429:LYS:HE2	34:7R:429:LYS:HB3	1.87	0.42
44:8R:99:UNK:CB	46:PL:276:ARG:HH12	2.33	0.42
44:8R:144:ALA:HA	44:8R:147:TYR:CD1	2.54	0.42
45:AC:181:VAL:HG12	46:AD:347:ASN:O	2.20	0.42
46:AD:239:CYS:SG	46:AD:247:ASN:HA	2.59	0.42
46:AF:262:ARG:HH12	46:AF:421:GLU:HG3	1.83	0.42
46:AJ:172:SER:HA	46:AJ:173:PRO:HD3	1.89	0.42
45:AK:105:ARG:HA	45:AK:411:GLU:OE1	2.19	0.42
46:AL:318:ARG:HH11	46:AL:318:ARG:HG2	1.84	0.42
45:AM:339:ARG:NE	45:AM:339:ARG:HA	2.34	0.42
46:AN:21:TRP:CZ3	46:AN:61:PRO:HB3	2.55	0.42
45:BC:192:HIS:NE2	45:BC:424:ASP:OD2	2.52	0.42
45:BC:257:THR:HA	46:BF:397:TRP:CH2	2.54	0.42
46:BF:378:PHE:HA	46:BF:381:VAL:HG22	2.01	0.42
45:BG:85:GLN:N	45:BG:85:GLN:OE1	2.53	0.42
46:BL:20:PHE:O	46:BL:24:ILE:HG12	2.20	0.42
46:BL:345:ILE:O	46:BL:345:ILE:HG23	2.18	0.42
45:BM:287:SER:O	45:BM:291:ILE:HG12	2.19	0.42
45:BM:324:VAL:HG12	45:BM:326:LYS:HG2	2.01	0.42
46:BN:276:ARG:HA	46:BN:279:GLN:HB2	2.01	0.42
45:CA:237:SER:O	45:CA:318:MET:HE2	2.19	0.42
46:CB:183:TYR:OH	46:CB:393:ALA:O	2.31	0.42
46:CB:334:GLN:HA	46:CB:341:PHE:CE2	2.53	0.42
45:CG:171:ILE:HG23	45:CG:204:LEU:O	2.19	0.42
45:CG:342:GLN:HE21	45:CG:342:GLN:CA	2.31	0.42
45:CI:89:PRO:HD3	45:DI:283:HIS:ND1	2.34	0.42
45:CI:101:ASN:HA	45:CI:144:GLY:H	1.83	0.42
46:CJ:198:GLU:HG2	46:CJ:266:PHE:CE2	2.53	0.42
46:CL:259:PRO:HA	45:CM:404:PHE:CD1	2.54	0.42
46:CN:215:LEU:HB3	46:CN:217:LEU:HD23	2.01	0.42
46:DD:55:THR:H	46:ED:283:ALA:HB2	1.85	0.42
45:DE:9:VAL:O	45:DE:139:ASN:HA	2.19	0.42
45:DE:191:THR:HA	45:DE:194:LEU:HG	2.02	0.42
45:DG:8:HIS:HD2	45:DG:67:PHE:CE1	2.37	0.42
46:DH:409:THR:O	46:DH:412:GLU:HG3	2.20	0.42
45:DI:5:ILE:HB	45:DI:135:PHE:CD2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DI:114:ILE:HD11	45:DI:149:LEU:HD11	2.00	0.42
45:DI:169:PHE:HD1	45:DI:202:VAL:HB	1.84	0.42
45:DK:91:GLN:OE1	45:DK:91:GLN:N	2.52	0.42
45:DK:349:THR:HG23	46:DL:179:VAL:HA	2.01	0.42
46:DL:139:LEU:CD1	46:DL:168:SER:HB3	2.49	0.42
45:DM:88:HIS:HB3	45:DM:91:GLN:HG2	2.01	0.42
46:DN:391:ARG:HA	46:DN:391:ARG:HD2	1.81	0.42
45:EA:141:VAL:HG12	45:EA:171:ILE:O	2.19	0.42
45:EA:296:PHE:CE2	45:EA:335:ILE:HG13	2.54	0.42
45:EC:79:ARG:O	45:EC:84:ARG:HG2	2.18	0.42
45:EC:434:GLU:O	45:EC:437:ILE:HG12	2.20	0.42
46:ED:86:ARG:HD2	46:FD:281:TYR:HB3	2.01	0.42
45:EE:419:SER:O	45:EE:423:GLU:HG2	2.19	0.42
46:EH:11:GLN:NE2	49:EH:501:GDP:O3B	2.47	0.42
46:EH:414:ASN:O	46:EH:418:LEU:HD23	2.19	0.42
46:FF:345:ILE:HG23	46:FF:345:ILE:O	2.18	0.42
45:FI:102:ASN:ND2	45:FI:105:ARG:HG3	2.33	0.42
45:FI:223:THR:HG23	45:FI:225:THR:H	1.84	0.42
45:FK:194:LEU:O	45:FK:198:THR:HG22	2.19	0.42
46:GB:36:TYR:HE2	46:GB:43:GLN:HB3	1.84	0.42
45:GC:256:GLN:NE2	46:GF:397:TRP:HH2	2.16	0.42
46:GD:21:TRP:CZ2	46:GD:63:ALA:HB2	2.54	0.42
46:GD:391:ARG:HA	46:GD:391:ARG:HD2	1.71	0.42
46:GH:395:LEU:HD23	46:GH:395:LEU:HA	1.81	0.42
45:GI:387:VAL:HA	45:GI:390:ARG:HG2	2.01	0.42
45:GK:231:ILE:O	45:GK:235:ILE:HG12	2.20	0.42
46:GN:396:HIS:HA	46:GN:399:THR:HG22	2.01	0.42
46:HB:121:ARG:HD2	46:HB:122:LYS:N	2.35	0.42
46:HD:51:TYR:HE1	46:HD:61:PRO:HG3	1.84	0.42
45:HE:107:HIS:ND1	45:HE:107:HIS:O	2.52	0.42
46:HH:287:PRO:HG3	46:HH:329:GLN:NE2	2.35	0.42
45:HI:176:GLN:HE22	45:HI:177:VAL:HG23	1.84	0.42
45:HK:176:GLN:OE1	45:HK:176:GLN:N	2.52	0.42
45:HK:258:ASN:HB2	45:HK:259:LEU:HD12	2.01	0.42
45:HK:324:VAL:HG12	45:HK:326:LYS:HG2	2.00	0.42
45:HK:349:THR:O	46:HN:179:VAL:HG23	2.19	0.42
46:HL:5:VAL:HG12	46:HL:62:ARG:HD3	2.00	0.42
46:HL:46:ARG:O	46:HL:49:VAL:HG22	2.19	0.42
46:HN:306:ARG:HA	46:HN:340:TYR:HE1	1.84	0.42
46:ID:173:PRO:HD3	46:ID:380:ARG:CZ	2.48	0.42
46:ID:272:PRO:HG3	46:ID:284:LEU:HD11	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IG:2:ARG:O	45:IG:51:THR:HA	2.19	0.42
45:IG:346:TRP:CD1	46:IJ:391:ARG:HG3	2.55	0.42
45:II:275:ILE:HG23	45:II:368:LEU:HD11	2.00	0.42
46:IJ:293:MET:HE2	46:IJ:293:MET:HB3	1.79	0.42
46:IJ:385:PHE:CE2	46:IJ:412:GLU:HB3	2.55	0.42
45:IM:235:ILE:O	45:IM:239:THR:HG22	2.19	0.42
45:IM:288:VAL:HA	45:IM:291:ILE:HG12	2.00	0.42
46:JB:151:LEU:O	46:JB:155:VAL:HG22	2.19	0.42
46:JB:186:THR:HA	46:JB:189:VAL:HG12	2.01	0.42
46:JB:203:ASP:OD2	46:JB:302:ALA:N	2.29	0.42
45:JG:149:LEU:HA	45:JG:149:LEU:HD12	1.82	0.42
46:JJ:101:TRP:H	46:JJ:398:TYR:HE2	1.65	0.42
46:JL:69:GLU:CD	46:JL:71:GLY:H	2.27	0.42
46:JL:203:ASP:OD2	46:JL:205:GLU:HB3	2.20	0.42
45:JM:22:GLU:O	45:JM:26:LEU:HD23	2.18	0.42
45:JM:377:MET:SD	45:JM:379:SER:HB3	2.60	0.42
45:JM:387:VAL:HA	45:JM:390:ARG:HG2	2.01	0.42
46:JN:119:VAL:HA	46:JN:122:LYS:HE3	2.02	0.42
46:JN:376:GLU:N	46:JN:376:GLU:OE1	2.52	0.42
46:KB:20:PHE:HA	46:KB:230:SER:OG	2.19	0.42
45:KC:71:GLU:HA	45:KC:72:PRO:HD3	1.89	0.42
45:KC:81:GLY:O	45:KC:84:ARG:HG3	2.18	0.42
46:KD:153:SER:O	46:KD:157:GLU:HG3	2.19	0.42
46:KD:173:PRO:HG2	46:KD:380:ARG:HD3	2.01	0.42
45:KE:352:LYS:HA	46:KH:177:ASP:O	2.19	0.42
45:KG:296:PHE:HD2	45:KG:335:ILE:HD12	1.84	0.42
45:KI:56:THR:OG1	45:LI:283:HIS:O	2.31	0.42
45:KK:431:ASP:HA	45:KK:434:GLU:CD	2.44	0.42
45:KM:309:HIS:CD2	45:NM:282:TYR:CE1	3.06	0.42
46:LB:21:TRP:CZ3	46:LB:61:PRO:HB3	2.53	0.42
46:LB:324:LYS:HG3	46:LB:325:GLU:N	2.34	0.42
46:LD:86:ARG:HH22	46:MD:281:TYR:CB	2.32	0.42
46:LF:36:TYR:CD1	46:LF:44:LEU:HD21	2.53	0.42
46:LF:164:MET:O	46:LF:197:ASP:HB2	2.18	0.42
46:LF:187:LEU:HD21	46:LF:403:MET:HE1	2.00	0.42
45:LI:270:SER:O	45:LI:302:MET:HB3	2.19	0.42
45:LI:301:MET:HE3	45:LI:302:MET:N	2.34	0.42
45:LK:260:VAL:HG23	46:LN:397:TRP:HE1	1.83	0.42
45:LM:187:SER:O	45:LM:191:THR:HG23	2.18	0.42
45:LM:267:PHE:O	45:LM:268:MET:HE2	2.18	0.42
45:MA:69:ASP:OD2	45:MA:70:LEU:N	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:MB:21:TRP:CZ3	46:MB:61:PRO:HB3	2.54	0.42
46:MB:304:ASP:HB3	46:MB:307:HIS:CD2	2.54	0.42
46:MB:390:ARG:NE	46:MB:390:ARG:HA	2.34	0.42
45:MC:127:ASP:OD1	45:MC:128:ASN:N	2.52	0.42
45:MG:350:GLY:C	46:MJ:179:VAL:HG12	2.43	0.42
45:MG:377:MET:SD	45:MG:379:SER:HB3	2.59	0.42
46:MH:121:ARG:HH21	46:MH:158:GLU:CD	2.27	0.42
45:MI:205:ASP:OD1	45:MI:303:ALA:HA	2.20	0.42
45:MI:254:GLU:OE2	46:ML:99:ASN:ND2	2.51	0.42
46:ML:9:GLY:HA2	46:ML:66:MET:O	2.19	0.42
45:MM:268:MET:HG3	45:MM:380:ASN:HB2	2.01	0.42
45:MM:419:SER:O	45:MM:423:GLU:OE1	2.36	0.42
46:NB:32:PRO:HB2	46:NB:83:GLN:NE2	2.35	0.42
46:NB:162:ARG:HE	46:NB:163:ILE:H	1.68	0.42
46:NB:406:MET:O	46:NB:410:GLU:OE1	2.37	0.42
45:NC:7:ILE:HG23	45:NC:137:VAL:HG23	2.01	0.42
45:NG:417:GLU:HA	45:NG:420:GLU:CD	2.44	0.42
46:NH:86:ARG:HA	46:OH:281:TYR:CD2	2.54	0.42
45:NK:1:MET:O	45:NK:131:GLY:HA3	2.19	0.42
45:NM:298:PRO:HG3	45:NM:308:ARG:NE	2.34	0.42
46:NN:105:HIS:CE1	46:NN:150:LEU:HD12	2.54	0.42
45:OA:88:HIS:ND1	45:OA:90:GLU:HG3	2.34	0.42
45:OA:128:ASN:OD1	45:OA:129:CYS:N	2.52	0.42
46:OB:133:PHE:HD2	46:OB:155:VAL:HG11	1.85	0.42
46:OD:208:TYR:HA	46:OD:211:CYS:SG	2.58	0.42
45:OE:289:ALA:O	45:OE:292:THR:HG22	2.19	0.42
46:OH:116:VAL:HA	46:OH:119:VAL:HG12	2.01	0.42
46:OH:257:LEU:O	46:OH:259:PRO:HD3	2.19	0.42
45:OI:211:ASP:O	45:OI:214:ARG:HG3	2.18	0.42
45:OK:88:HIS:CD2	45:OK:90:GLU:HB3	2.54	0.42
45:OM:68:LEU:HD13	45:OM:93:ILE:HB	2.00	0.42
45:OM:180:ALA:HA	46:ON:350:LYS:NZ	2.35	0.42
46:ON:258:ILE:HD12	46:ON:264:HIS:HB3	2.01	0.42
46:ON:314:SER:HA	46:ON:350:LYS:HB3	2.01	0.42
45:PC:352:LYS:HB2	45:PC:352:LYS:HE2	1.80	0.42
45:PC:387:VAL:HA	45:PC:390:ARG:HG2	2.01	0.42
45:PE:67:PHE:HB2	45:PE:92:LEU:HD13	2.01	0.42
46:PF:229:VAL:O	46:PF:233:MET:HG2	2.19	0.42
46:PJ:266:PHE:HE1	46:PJ:370:ASN:HB2	1.84	0.42
45:PM:124:LYS:HE2	45:PM:124:LYS:HB2	1.87	0.42
45:PM:171:ILE:HG22	45:PM:204:LEU:HB3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PN:371:SER:O	46:PN:422:TYR:OH	2.35	0.42
46:QB:3:GLU:HB3	46:QB:49:VAL:HA	2.01	0.42
46:QB:205:GLU:OE2	46:QB:302:ALA:HB2	2.19	0.42
45:QC:68:LEU:HD21	45:QC:118:CYS:SG	2.60	0.42
45:QC:384:ILE:O	45:QC:387:VAL:HG12	2.20	0.42
45:QE:141:VAL:HG12	45:QE:171:ILE:O	2.19	0.42
45:QE:143:GLY:HA3	47:QE:501:GTP:O2B	2.20	0.42
45:QE:384:ILE:O	45:QE:387:VAL:HG22	2.19	0.42
46:QF:44:LEU:HD23	46:QF:44:LEU:HA	1.90	0.42
46:QF:297:LYS:HD3	46:QF:297:LYS:HA	1.83	0.42
45:QI:88:HIS:NE2	45:QI:90:GLU:HG2	2.35	0.42
45:QM:217:LEU:HG	45:QM:219:ILE:HG13	2.02	0.42
46:RB:135:ILE:CD1	46:RB:152:ILE:HD11	2.48	0.42
46:RB:139:LEU:HD13	46:RB:168:SER:HB3	2.01	0.42
46:RB:258:ILE:HG22	46:RB:266:PHE:HZ	1.84	0.42
45:RC:31:GLN:N	45:RC:31:GLN:OE1	2.52	0.42
46:RF:380:ARG:O	46:RF:383:GLU:HG2	2.19	0.42
45:RG:274:PRO:HG3	45:RG:286:LEU:HD12	2.01	0.42
45:RI:225:THR:O	45:RI:229:ARG:HG2	2.19	0.42
45:RI:251:ASP:OD1	45:RI:252:ILE:N	2.52	0.42
46:RL:12:CYS:HA	46:RL:15:GLN:NE2	2.30	0.42
46:RL:74:ASP:OD1	46:RL:77:ARG:NH2	2.46	0.42
46:RL:255:VAL:HA	45:RM:407:TRP:CH2	2.54	0.42
45:RM:317:MET:HB3	45:RM:319:TYR:CE1	2.54	0.42
46:RN:5:VAL:HA	46:RN:62:ARG:HG3	2.01	0.42
46:RN:391:ARG:HD2	46:RN:391:ARG:HA	1.83	0.42
46:SD:407:GLU:HA	46:SD:410:GLU:CD	2.44	0.42
45:SE:254:GLU:O	45:SE:255:PHE:HD2	2.02	0.42
45:SE:288:VAL:HA	45:SE:291:ILE:HG12	2.00	0.42
45:SE:396:ASP:OD1	45:SE:422:ARG:NH1	2.52	0.42
46:SF:3:GLU:HB2	46:SF:127:CYS:SG	2.59	0.42
46:SF:391:ARG:HD2	46:SF:391:ARG:HA	1.83	0.42
46:SH:86:ARG:HG2	46:SH:86:ARG:NH1	2.34	0.42
46:SH:257:LEU:HB3	46:SH:266:PHE:CE1	2.54	0.42
45:SI:115:VAL:HG21	45:SI:152:LEU:CD2	2.49	0.42
45:SI:390:ARG:O	45:SI:394:LYS:HG2	2.18	0.42
46:SJ:221:THR:HG23	46:SJ:224:ASP:H	1.84	0.42
46:SL:174:LYS:HB2	46:SL:205:GLU:OE1	2.18	0.42
45:SM:56:THR:HG23	45:SM:58:ALA:H	1.84	0.42
46:SN:404:ASP:OD2	46:SN:406:MET:HE2	2.19	0.42
46:TB:1:MET:O	46:TB:2:ARG:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TB:150:LEU:HG	46:TB:154:LYS:HZ1	1.82	0.42
45:TC:51:THR:HG22	45:TC:52:PHE:CD2	2.54	0.42
46:TD:186:THR:HG23	46:TD:415:MET:SD	2.59	0.42
45:TE:127:ASP:OD1	45:TE:128:ASN:N	2.53	0.42
45:TE:214:ARG:HH21	45:TE:215:ARG:HH21	1.68	0.42
46:TF:51:TYR:C	46:TF:62:ARG:HH21	2.27	0.42
46:TF:102:ALA:O	46:TF:106:TYR:HB2	2.18	0.42
46:TF:116:VAL:O	46:TF:120:VAL:HG23	2.19	0.42
46:TF:257:LEU:HB3	46:TF:266:PHE:CZ	2.54	0.42
46:TH:6:HIS:HD2	46:TH:7:ILE:N	2.17	0.42
46:TL:2:ARG:NE	45:TM:97:GLU:HA	2.23	0.42
46:TL:113:ILE:CG2	46:TL:154:LYS:HZ3	2.33	0.42
45:TM:33:ASP:HA	45:TM:85:GLN:HE21	1.84	0.42
45:TM:229:ARG:NH2	45:TM:368:LEU:HB3	2.34	0.42
45:TM:292:THR:HG21	45:TM:331:SER:HB3	2.00	0.42
46:UB:30:ILE:HD13	46:UB:36:TYR:HA	2.01	0.42
46:UB:273:LEU:H	46:UB:292:GLN:HE22	1.67	0.42
45:UC:36:MET:HE1	45:UC:59:GLY:HA2	2.00	0.42
45:UC:385:ALA:HA	45:UC:388:PHE:HD2	1.84	0.42
46:UD:377:MET:O	46:UD:380:ARG:HG2	2.18	0.42
45:UE:231:ILE:O	45:UE:235:ILE:HG12	2.19	0.42
46:UF:143:THR:HG1	49:UF:501:GDP:PB	2.40	0.42
46:UF:201:VAL:HG13	46:UF:301:CYS:SG	2.59	0.42
46:UF:213:ARG:HH21	46:UF:297:LYS:C	2.23	0.42
45:UG:434:GLU:O	45:UG:437:ILE:HG12	2.19	0.42
46:UH:304:ASP:HB3	46:UH:307:HIS:CG	2.55	0.42
45:UI:10:GLY:O	45:UI:14:ILE:HG12	2.19	0.42
46:UJ:167:PHE:CZ	46:UJ:200:MET:HG3	2.54	0.42
46:UJ:180:VAL:O	46:UJ:180:VAL:HG12	2.19	0.42
46:UJ:415:MET:O	46:UJ:419:VAL:HG23	2.19	0.42
45:UK:3:GLU:OE2	45:UK:130:THR:N	2.53	0.42
46:UL:127:CYS:SG	46:UL:130:LEU:HB3	2.60	0.42
46:UL:184:ASN:OD1	46:UL:185:ALA:N	2.51	0.42
46:UL:200:MET:HE1	46:UL:267:MET:HA	2.01	0.42
45:UM:326:LYS:HE2	46:UN:220:PRO:CD	2.42	0.42
45:VA:88:HIS:HB3	45:VA:91:GLN:HG2	2.01	0.42
45:VA:175:PRO:HD2	45:VA:207:GLU:OE2	2.19	0.42
45:VA:224:TYR:O	45:VA:227:LEU:HB2	2.19	0.42
46:VB:350:LYS:HA	46:VB:350:LYS:HE2	2.01	0.42
46:VD:293:MET:HG3	46:VD:365:VAL:HG11	2.01	0.42
45:VE:174:SER:HB2	45:VE:177:VAL:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VH:309:ARG:NH2	46:VH:426:GLN:O	2.36	0.42
45:VI:141:VAL:HG11	45:VI:172:TYR:HA	2.00	0.42
45:VI:261:PRO:HA	46:VL:394:PHE:CE1	2.55	0.42
46:VJ:164:MET:SD	46:VJ:166:THR:OG1	2.75	0.42
46:VL:3:GLU:O	46:VL:4:ILE:HD13	2.19	0.42
46:VL:207:LEU:HA	46:VL:210:ILE:HG12	2.01	0.42
45:VM:104:ALA:HB2	45:VM:413:MET:HE3	2.01	0.42
45:VM:172:TYR:HB2	45:VM:203:MET:HE1	2.01	0.42
45:WG:333:ALA:O	45:WG:337:THR:HG23	2.19	0.42
46:WH:117:LEU:HA	46:WH:120:VAL:HG12	2.01	0.42
45:WK:267:PHE:O	45:WK:268:MET:HE2	2.19	0.42
45:WK:326:LYS:HE2	46:WN:220:PRO:CB	2.48	0.42
45:WK:387:VAL:O	45:WK:391:LEU:HD23	2.19	0.42
46:WL:9:GLY:HA2	46:WL:66:MET:O	2.19	0.42
46:WL:105:HIS:CD2	46:WL:146:GLY:O	2.72	0.42
46:WN:229:VAL:O	46:WN:233:MET:HG2	2.19	0.42
45:DC:97:GLU:HG2	45:DC:105:ARG:HH22	1.84	0.42
45:DC:186:ASN:OD1	45:DC:187:SER:N	2.52	0.42
1:0A:36:ARG:NE	45:MA:77:GLU:HG2	2.33	0.42
2:0B:46:PHE:HZ	46:JH:73:MET:HB3	1.85	0.42
2:0B:208:VAL:HA	2:0B:211:GLN:NE2	2.35	0.42
7:0G:150:GLU:HG2	27:4C:264:PRO:O	2.19	0.42
9:0N:168:LYS:HG3	9:0N:169:GLN:H	1.83	0.42
13:0U:234:LYS:C	13:0U:235:LYS:HD3	2.44	0.42
13:0U:348:ASN:HB2	13:0U:351:ASN:O	2.19	0.42
13:0U:431:VAL:HG11	13:0U:481:PHE:CZ	2.54	0.42
13:0U:590:VAL:HG23	13:0U:604:MET:CG	2.50	0.42
14:0V:39:ILE:HD11	14:0V:64:HIS:NE2	2.34	0.42
3:1C:122:ARG:HD2	45:DM:229:ARG:HH21	1.84	0.42
4:1D:177:THR:HG21	46:EF:47:ILE:H	1.85	0.42
7:1G:168:PHE:HB3	45:KA:1:MET:HG3	2.02	0.42
18:1I:100:ALA:O	18:1I:105:ARG:NH1	2.41	0.42
18:1I:167:ARG:HA	18:1I:172:GLN:O	2.19	0.42
18:1I:195:PHE:HZ	15:4X:139:ARG:H	1.65	0.42
19:1J:369:LYS:HB3	19:1J:392:PHE:CE2	2.53	0.42
9:1N:241:GLN:N	9:1N:241:GLN:OE1	2.51	0.42
23:1O:155:ILE:HD12	45:UE:370:LYS:NZ	2.35	0.42
24:1P:200:LEU:O	24:1P:204:GLU:OE1	2.36	0.42
24:1P:289:GLU:CA	24:1P:292:GLU:HG3	2.45	0.42
11:1S:291:LEU:HD23	11:1S:291:LEU:HA	1.91	0.42
14:1V:46:PRO:HG3	45:LI:114:ILE:CD1	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:2C:36:ARG:NH1	27:2C:40:GLU:OE2	2.38	0.42
31:2I:97:LYS:HD3	46:GF:337:ASN:OD1	2.20	0.42
9:2N:60:LEU:HD22	9:2N:277:ALA:N	2.35	0.42
12:2T:74:ILE:HD12	45:MG:159:VAL:HG22	2.02	0.42
15:2X:6:GLU:OE2	46:ML:223:GLY:HA3	2.19	0.42
15:2X:99:VAL:HA	15:2X:102:GLU:HG2	2.01	0.42
1:3A:73:ALA:HB1	1:3A:77:GLU:OE2	2.20	0.42
16:3B:65:LEU:O	16:3B:68:VAL:HG12	2.20	0.42
30:3H:201:ASN:HA	30:3H:205:GLN:CB	2.49	0.42
10:3Q:53:ASN:ND2	45:AG:396:ASP:OD1	2.52	0.42
25:3R:101:ARG:HB3	25:3R:191:ASP:OD2	2.19	0.42
25:3R:101:ARG:NH1	45:AK:41:THR:HG21	2.35	0.42
11:3S:43:TYR:CE1	45:WK:124:LYS:HD2	2.54	0.42
12:3T:73:GLU:HG3	12:3T:129:ILE:HG22	2.00	0.42
13:3U:98:LEU:HD13	13:3U:132:TRP:CD2	2.54	0.42
27:4C:183:SER:O	27:4C:187:PHE:HB2	2.19	0.42
34:4R:259:ASN:HB2	34:4R:351:ASN:HB3	2.01	0.42
35:4S:62:ILE:O	35:4S:67:LYS:NZ	2.53	0.42
36:5B:32:ALA:C	36:5B:34:PHE:H	2.27	0.42
37:5E:110:ARG:HH12	37:5E:113:LEU:C	2.27	0.42
37:5F:27:ARG:HH22	45:OC:221:ARG:NH2	2.16	0.42
37:5G:104:MET:HG3	37:5G:105:LYS:N	2.27	0.42
37:5H:40:TYR:HB3	37:5H:42:TYR:CE1	2.54	0.42
40:6G:99:HIS:O	40:6G:102:GLU:HG3	2.18	0.42
40:6G:227:PRO:HA	45:UE:123:ARG:NH2	2.34	0.42
41:6H:261:LYS:HA	41:6H:261:LYS:HD2	1.83	0.42
46:AB:19:LYS:O	46:AB:23:VAL:HG23	2.18	0.42
46:AB:101:TRP:HB3	46:AB:398:TYR:HE1	1.83	0.42
46:AB:283:ALA:HA	46:MB:55:THR:HG23	2.00	0.42
45:AC:226:ASN:O	45:AC:230:LEU:HD23	2.20	0.42
46:AD:19:LYS:HD2	46:AD:22:GLU:OE1	2.19	0.42
46:AD:345:ILE:HG23	46:AD:345:ILE:O	2.19	0.42
45:AE:124:LYS:HE2	45:AE:124:LYS:HB3	1.90	0.42
46:AF:22:GLU:HG2	46:AF:81:PHE:HD1	1.85	0.42
45:AK:234:VAL:HG21	45:AK:302:MET:HE2	2.01	0.42
46:BB:163:ILE:O	46:BB:164:MET:HE2	2.20	0.42
46:BB:295:ASP:O	46:BB:299:MET:HE3	2.20	0.42
46:BD:105:HIS:CE1	46:BD:150:LEU:HD12	2.55	0.42
45:BE:207:GLU:HA	45:BE:210:TYR:HB2	2.02	0.42
46:BF:146:GLY:O	46:BF:149:THR:HG22	2.20	0.42
45:BG:209:ILE:HG21	45:BG:227:LEU:HG	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BG:340:THR:HG23	45:BG:341:ILE:HG13	2.00	0.42
46:BH:390:ARG:O	46:BH:392:LYS:NZ	2.52	0.42
45:BI:102:ASN:HB3	45:BI:105:ARG:HB2	2.01	0.42
45:BI:207:GLU:HB2	45:BI:304:LYS:HE3	2.01	0.42
46:BJ:221:THR:HG23	46:BJ:224:ASP:H	1.83	0.42
46:BJ:395:LEU:O	46:BJ:399:THR:HG23	2.18	0.42
46:BL:347:ASN:C	46:BL:347:ASN:HD22	2.26	0.42
46:BL:372:THR:HA	46:BL:422:TYR:CE1	2.53	0.42
45:BM:88:HIS:CE1	45:CM:280:LYS:HZ1	2.38	0.42
46:BN:190:HIS:HB3	46:BN:191:GLN:OE1	2.19	0.42
45:CA:226:ASN:O	45:CA:230:LEU:HD23	2.19	0.42
45:CA:296:PHE:HD2	45:CA:335:ILE:HD12	1.85	0.42
46:CB:45:GLU:OE1	46:CB:46:ARG:HG2	2.18	0.42
46:CF:45:GLU:O	46:CF:46:ARG:HD3	2.18	0.42
46:CF:391:ARG:NH2	45:CE:439:THR:HB	2.34	0.42
45:CG:200:VAL:HG13	45:CG:268:MET:CE	2.49	0.42
45:CI:152:LEU:O	45:CI:155:GLU:HG2	2.19	0.42
46:CL:119:VAL:HA	46:CL:122:LYS:HG2	2.00	0.42
45:DA:55:GLU:HG3	45:DA:57:GLY:H	1.84	0.42
45:DA:141:VAL:HG12	45:DA:171:ILE:O	2.19	0.42
46:DB:130:LEU:HD21	46:DB:133:PHE:CZ	2.54	0.42
46:DB:225:LEU:O	46:DB:228:LEU:HG	2.19	0.42
46:DD:313:ALA:HB3	46:DD:349:ILE:HD13	2.01	0.42
45:DE:242:LEU:HD11	45:DE:252:ILE:HG13	2.00	0.42
45:DG:123:ARG:NH1	45:DG:123:ARG:HA	2.35	0.42
45:DG:311:LYS:NZ	45:DG:342:GLN:HB3	2.33	0.42
45:DI:192:HIS:ND1	45:DI:424:ASP:OD2	2.51	0.42
46:DJ:139:LEU:HD13	46:DJ:170:VAL:HG12	2.01	0.42
45:DK:132:LEU:HD22	45:DK:164:LYS:NZ	2.34	0.42
45:DK:259:LEU:HD13	45:DK:268:MET:HE1	2.01	0.42
45:DK:300:ASN:O	45:DK:302:MET:HE2	2.19	0.42
46:DL:380:ARG:O	46:DL:384:GLN:HG2	2.19	0.42
45:DM:19:ALA:O	45:DM:22:GLU:HG2	2.19	0.42
45:DM:210:TYR:CE1	45:DM:227:LEU:HD21	2.54	0.42
46:DN:201:VAL:HG23	46:DN:301:CYS:SG	2.60	0.42
46:DN:293:MET:HE1	46:DN:317:PHE:CZ	2.54	0.42
45:EA:19:ALA:HA	45:EA:22:GLU:OE1	2.18	0.42
46:EB:350:LYS:HA	45:EC:179:THR:O	2.19	0.42
45:EC:140:SER:OG	47:EC:501:GTP:O2B	2.37	0.42
46:ED:310:TYR:CD1	46:ED:371:SER:HB2	2.54	0.42
46:EF:221:THR:HG23	46:EF:223:GLY:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EF:309:ARG:NH2	46:EF:426:GLN:O	2.42	0.42
45:EG:17:GLY:HA2	45:EG:20:CYS:SG	2.59	0.42
46:EH:102:ALA:HB2	46:EH:403:MET:SD	2.60	0.42
46:EH:407:GLU:O	46:EH:410:GLU:HG3	2.20	0.42
46:EL:105:HIS:CE1	46:EL:150:LEU:HD12	2.54	0.42
46:EL:312:THR:HG22	46:EL:370:ASN:HB3	2.01	0.42
45:EM:124:LYS:HE2	45:EM:124:LYS:HB2	1.89	0.42
45:EM:245:ASP:N	45:EM:245:ASP:OD1	2.53	0.42
46:EN:6:HIS:O	46:EN:63:ALA:HA	2.19	0.42
46:FB:145:SER:HB2	46:FB:188:SER:HB3	2.02	0.42
46:FB:334:GLN:OE1	46:FB:347:ASN:HA	2.19	0.42
45:FC:7:ILE:CD1	45:FC:122:ILE:HD11	2.44	0.42
45:FC:105:ARG:NH1	46:FD:251:ARG:HD3	2.34	0.42
46:FD:10:GLY:O	46:FD:14:ASN:ND2	2.53	0.42
46:FD:173:PRO:HG2	46:FD:380:ARG:HD3	2.01	0.42
45:FE:118:CYS:O	45:FE:122:ILE:HG12	2.19	0.42
46:FF:20:PHE:HB2	46:FF:233:MET:HE1	1.99	0.42
46:FF:258:ILE:O	46:FF:258:ILE:HG13	2.20	0.42
45:FG:132:LEU:HD22	45:FG:164:LYS:NZ	2.34	0.42
45:FG:269:LEU:HD12	45:FG:301:MET:HE2	2.01	0.42
46:FH:252:LYS:HG2	46:FH:350:LYS:HE2	2.01	0.42
46:FJ:290:THR:HA	46:FJ:293:MET:CE	2.49	0.42
45:FK:181:VAL:HG12	46:FL:348:ASN:HA	2.01	0.42
46:FL:156:ARG:NH2	46:FL:197:ASP:OD2	2.52	0.42
46:FL:172:SER:OG	46:FL:175:VAL:HG22	2.20	0.42
46:FL:215:LEU:HD21	46:FL:273:LEU:HD12	2.02	0.42
45:FM:331:SER:O	45:FM:335:ILE:HG12	2.20	0.42
46:FN:318:ARG:O	46:FN:363:MET:HA	2.18	0.42
45:GA:81:GLY:O	45:GA:84:ARG:HG3	2.20	0.42
46:GB:293:MET:HE3	46:GB:365:VAL:HG12	2.00	0.42
45:GC:88:HIS:HE1	45:GC:90:GLU:HB3	1.84	0.42
45:GC:147:SER:HB2	45:GC:190:SER:HB3	2.02	0.42
45:GE:129:CYS:SG	45:GE:132:LEU:HB2	2.59	0.42
45:GG:288:VAL:CG1	45:GG:327:ASP:HB3	2.33	0.42
46:GH:301:CYS:SG	46:GH:302:ALA:N	2.93	0.42
45:GK:21:TRP:HZ2	45:GK:65:ALA:HB2	1.84	0.42
45:GK:171:ILE:HG23	45:GK:204:LEU:O	2.19	0.42
45:GM:224:TYR:CD1	45:GM:227:LEU:HD12	2.55	0.42
45:HA:88:HIS:HB3	45:HA:91:GLN:OE1	2.19	0.42
45:HA:210:TYR:CE1	45:HA:227:LEU:HD11	2.54	0.42
45:HC:11:GLN:NE2	46:HD:245:GLN:O	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HC:268:MET:N	45:HC:268:MET:SD	2.92	0.42
46:HD:199:CYS:O	46:HD:200:MET:HE2	2.20	0.42
45:HE:9:VAL:HG13	45:HE:139:ASN:HB3	2.01	0.42
45:HE:221:ARG:HB3	46:HF:322:SER:HB3	2.01	0.42
45:HE:239:THR:HG23	45:HE:243:ARG:HH12	1.84	0.42
45:HG:352:LYS:HZ3	45:HG:353:VAL:H	1.67	0.42
46:HH:51:TYR:HE1	46:HH:61:PRO:HG3	1.83	0.42
46:HH:258:ILE:HD12	46:HH:264:HIS:HB3	2.01	0.42
46:IB:289:LEU:HD23	46:IB:289:LEU:HA	1.80	0.42
46:IB:372:THR:HA	46:IB:422:TYR:HE2	1.84	0.42
46:IF:207:LEU:HB3	46:IF:225:LEU:HD22	2.01	0.42
45:IG:123:ARG:NH2	45:IG:127:ASP:OD1	2.52	0.42
45:IG:249:ASN:OD1	45:IG:250:VAL:N	2.51	0.42
45:II:73:THR:O	45:II:76:ASP:HB3	2.19	0.42
45:II:88:HIS:O	45:II:91:GLN:HG2	2.19	0.42
45:IK:127:ASP:OD1	45:IK:128:ASN:N	2.53	0.42
45:IK:202:VAL:C	45:IK:203:MET:HE2	2.44	0.42
45:IK:224:TYR:CE2	46:IL:323:THR:HG21	2.54	0.42
46:IL:186:THR:HA	46:IL:189:VAL:HG12	2.01	0.42
46:IL:276:ARG:HG3	46:IL:277:GLY:N	2.34	0.42
45:IM:75:ILE:O	45:IM:79:ARG:HG3	2.19	0.42
46:IN:108:GLU:O	46:IN:111:GLU:HG3	2.19	0.42
46:IN:164:MET:N	46:IN:197:ASP:OD2	2.51	0.42
45:JA:212:ILE:HA	45:JA:215:ARG:HE	1.84	0.42
46:JB:321:MET:HE2	46:JB:321:MET:HB3	1.96	0.42
45:JC:245:ASP:OD1	45:JC:246:GLY:N	2.53	0.42
45:JC:439:THR:HG21	46:JF:390:ARG:HH12	1.84	0.42
45:JE:392:ASP:OD2	45:JE:425:LEU:HD22	2.18	0.42
45:JI:311:LYS:NZ	45:JI:342:GLN:HB2	2.34	0.42
45:JI:330:ALA:O	45:JI:334:THR:HG23	2.19	0.42
46:JJ:201:VAL:HG12	46:JJ:266:PHE:O	2.20	0.42
46:JN:19:LYS:HD3	46:JN:227:HIS:CG	2.55	0.42
46:JN:113:ILE:HA	46:JN:116:VAL:HG12	2.00	0.42
45:KE:5:ILE:HG12	45:KE:132:LEU:HD11	1.99	0.42
45:KE:201:ALA:HB3	45:KE:267:PHE:CD1	2.54	0.42
46:KF:248:SER:HA	46:KF:252:LYS:HD2	2.01	0.42
46:KH:136:THR:HG22	46:KH:167:PHE:HB2	2.02	0.42
45:KI:313:MET:HE3	45:KI:313:MET:HB2	1.83	0.42
45:KK:296:PHE:CE2	45:KK:335:ILE:HG21	2.54	0.42
45:LA:141:VAL:HG22	45:LA:187:SER:HA	2.01	0.42
45:LA:161:TYR:CD1	45:LA:164:LYS:HG3	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LA:257:THR:HG22	45:LA:257:THR:O	2.20	0.42
45:LC:21:TRP:HZ2	45:LC:65:ALA:HB2	1.84	0.42
45:LC:210:TYR:HE1	45:LC:227:LEU:HD21	1.85	0.42
46:LD:54:ALA:HB1	46:MD:281:TYR:O	2.19	0.42
46:LD:304:ASP:OD2	46:LD:306:ARG:NH2	2.52	0.42
45:LE:68:LEU:HD23	45:LE:93:ILE:HB	2.02	0.42
45:LG:31:GLN:HG3	45:LG:33:ASP:OD1	2.19	0.42
45:LG:200:VAL:HG13	45:LG:268:MET:SD	2.59	0.42
46:LH:336:LYS:HD3	46:LH:337:ASN:OD1	2.20	0.42
45:LK:318:MET:SD	45:LK:354:GLY:HA3	2.59	0.42
46:LL:268:ILE:HG22	46:LL:368:VAL:HG22	2.01	0.42
45:LM:104:ALA:HB1	45:LM:411:GLU:OE1	2.20	0.42
45:LM:174:SER:HB3	45:LM:207:GLU:OE1	2.19	0.42
46:LN:105:HIS:CE1	46:LN:150:LEU:HD12	2.55	0.42
46:LN:330:MET:CE	46:LN:349:ILE:HG21	2.49	0.42
45:MA:286:LEU:N	45:MA:290:GLU:OE2	2.53	0.42
46:MB:372:THR:HA	46:MB:422:TYR:CE2	2.53	0.42
45:ME:127:ASP:OD1	45:ME:128:ASN:N	2.52	0.42
45:MG:107:HIS:ND1	45:MG:107:HIS:O	2.53	0.42
45:MI:76:ASP:O	45:MI:80:THR:HG22	2.19	0.42
46:MJ:31:ASP:OD1	46:MJ:35:THR:HB	2.19	0.42
46:ML:36:TYR:CD2	46:ML:44:LEU:HD21	2.54	0.42
46:ML:388:MET:HE3	46:ML:388:MET:HB2	1.88	0.42
45:MM:4:VAL:HG12	45:MM:133:GLN:HB2	2.01	0.42
46:MN:73:MET:HE1	46:MN:92:PHE:CG	2.55	0.42
46:MN:203:ASP:O	46:MN:207:LEU:HG	2.18	0.42
45:NA:371:VAL:HG22	45:NA:373:ARG:H	1.84	0.42
46:NB:189:VAL:HG12	46:NB:415:MET:HE1	2.02	0.42
45:NC:417:GLU:N	45:NC:417:GLU:OE1	2.50	0.42
45:NG:88:HIS:CE1	45:NG:90:GLU:HB3	2.54	0.42
45:NI:352:LYS:CE	46:NL:178:THR:HA	2.49	0.42
45:NI:434:GLU:O	45:NI:437:ILE:HG22	2.20	0.42
46:NJ:183:TYR:HA	46:NJ:385:PHE:HE1	1.84	0.42
46:NJ:391:ARG:HA	46:NJ:391:ARG:HD2	1.79	0.42
45:NK:76:ASP:HB3	45:NK:79:ARG:HH21	1.84	0.42
46:NL:174:LYS:HB2	46:NL:205:GLU:OE2	2.20	0.42
45:NM:296:PHE:CE2	45:NM:335:ILE:HG13	2.54	0.42
46:NN:5:VAL:HG12	46:NN:62:ARG:HD3	2.02	0.42
46:NN:379:LYS:O	46:NN:382:ALA:HB3	2.19	0.42
46:NN:396:HIS:HA	46:NN:399:THR:OG1	2.19	0.42
45:OC:192:HIS:ND1	45:OC:421:ALA:HA	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OD:318:ARG:HG2	46:OD:358:PRO:HD3	2.01	0.42
46:OF:32:PRO:HG3	46:OF:81:PHE:CZ	2.54	0.42
45:OG:286:LEU:N	45:OG:290:GLU:OE1	2.52	0.42
45:OG:430:LYS:HA	45:OG:433:GLU:HG3	2.00	0.42
45:OI:265:ILE:HG12	45:OI:432:TYR:CE1	2.49	0.42
45:OK:75:ILE:HD12	45:OK:75:ILE:H	1.85	0.42
45:OK:288:VAL:HB	45:OK:327:ASP:OD2	2.19	0.42
46:OL:325:GLU:O	46:OL:329:GLN:HG3	2.19	0.42
46:ON:46:ARG:NH1	46:ON:240:LEU:O	2.43	0.42
46:ON:284:LEU:HB3	46:ON:363:MET:HE2	2.00	0.42
46:ON:313:ALA:HB1	46:ON:367:PHE:CE1	2.54	0.42
45:PC:21:TRP:HZ3	45:PC:53:PHE:HE1	1.66	0.42
45:PC:209:ILE:HG12	45:PC:302:MET:SD	2.60	0.42
45:PC:280:LYS:HD2	45:PC:283:HIS:HB2	2.00	0.42
45:PC:356:ASN:OD1	45:PC:357:TYR:N	2.52	0.42
45:PE:217:LEU:HD12	45:PE:367:ASP:OD2	2.19	0.42
45:PE:268:MET:HE1	45:PE:380:ASN:HB2	2.00	0.42
45:PG:115:VAL:O	45:PG:119:LEU:HD23	2.20	0.42
45:PG:319:TYR:CD2	45:PG:323:VAL:HG21	2.53	0.42
46:PJ:64:ILE:HG13	46:PJ:89:ASN:ND2	2.34	0.42
46:PL:200:MET:HG3	46:PL:266:PHE:HB2	2.00	0.42
45:PM:319:TYR:CD2	45:PM:323:VAL:HG21	2.54	0.42
46:PN:309:ARG:NH2	46:PN:426:GLN:O	2.44	0.42
46:PN:391:ARG:HD2	46:PN:391:ARG:HA	1.74	0.42
45:QA:252:ILE:HA	45:QA:255:PHE:CE2	2.54	0.42
45:QA:280:LYS:HA	45:QA:280:LYS:HD2	1.78	0.42
45:QC:252:ILE:HA	45:QC:255:PHE:CE1	2.54	0.42
45:QC:318:MET:HB2	45:QC:376:CYS:SG	2.59	0.42
46:QD:68:LEU:HD13	46:QD:143:THR:OG1	2.19	0.42
46:QF:317:PHE:HE2	46:QF:326:VAL:HG13	1.84	0.42
45:QG:1:MET:O	45:QG:131:GLY:HA3	2.19	0.42
45:QG:188:ILE:HD11	45:QG:391:LEU:HB3	2.02	0.42
45:QI:53:PHE:HB3	45:QI:61:HIS:HB3	2.01	0.42
46:QJ:21:TRP:CH2	46:QJ:50:TYR:HB3	2.54	0.42
46:QL:346:PRO:HD2	45:QM:397:LEU:HD11	2.02	0.42
45:RA:167:LEU:HG	45:RA:200:VAL:HB	2.01	0.42
45:RA:226:ASN:HA	45:RA:229:ARG:HE	1.83	0.42
46:RB:313:ALA:HB1	46:RB:367:PHE:HE1	1.84	0.42
45:RC:7:ILE:HG13	45:RC:66:VAL:HG12	2.00	0.42
45:RG:352:LYS:NZ	46:RH:178:THR:HA	2.33	0.42
46:RH:238:CYS:SG	46:RH:239:CYS:N	2.93	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RL:262:ARG:NH1	46:RL:421:GLU:HB2	2.32	0.42
45:RM:220:GLU:O	45:RM:221:ARG:HG3	2.19	0.42
45:SA:428:LEU:HG	45:SA:432:TYR:HE2	1.84	0.42
46:SB:58:ARG:NH1	46:TB:280:GLN:OE1	2.53	0.42
45:SC:187:SER:O	45:SC:191:THR:HG23	2.18	0.42
46:SD:68:LEU:HD12	46:SD:97:ALA:HB2	2.01	0.42
46:SF:21:TRP:CZ3	46:SF:61:PRO:HB3	2.55	0.42
46:SF:255:VAL:HG12	45:SG:407:TRP:CZ3	2.54	0.42
45:SG:107:HIS:ND1	45:SG:107:HIS:O	2.52	0.42
46:SH:116:VAL:HA	46:SH:119:VAL:HG12	2.01	0.42
45:SI:55:GLU:OE2	45:SI:61:HIS:NE2	2.46	0.42
46:SJ:36:TYR:CZ	46:SJ:44:LEU:HD11	2.54	0.42
46:SJ:114:ASP:O	46:SJ:117:LEU:HG	2.20	0.42
46:SJ:151:LEU:O	46:SJ:155:VAL:HG22	2.19	0.42
45:SK:141:VAL:HG22	45:SK:187:SER:HA	2.02	0.42
45:SK:268:MET:N	45:SK:268:MET:SD	2.92	0.42
46:SL:162:ARG:HA	46:SL:251:ARG:HH22	1.84	0.42
45:SM:277:SER:HB2	45:SM:279:GLU:OE2	2.20	0.42
45:TC:226:ASN:HA	45:TC:229:ARG:NE	2.35	0.42
46:TD:185:ALA:O	46:TD:189:VAL:HG12	2.20	0.42
45:TE:107:HIS:O	45:TE:107:HIS:ND1	2.52	0.42
45:TE:188:ILE:HD12	45:TE:425:LEU:HD11	2.01	0.42
45:TE:387:VAL:HA	45:TE:390:ARG:HG2	2.02	0.42
45:TG:231:ILE:O	45:TG:235:ILE:HG12	2.19	0.42
45:TG:372:MET:HG2	45:TG:373:ARG:HG3	2.02	0.42
45:TI:17:GLY:O	45:TI:21:TRP:HD1	2.03	0.42
46:UB:2:ARG:CB	46:UB:131:GLN:HE21	2.22	0.42
46:UD:99:ASN:HA	46:UD:142:GLY:H	1.83	0.42
45:UG:260:VAL:H	46:UH:397:TRP:HH2	1.66	0.42
45:UG:331:SER:O	45:UG:335:ILE:HG12	2.19	0.42
45:UG:419:SER:O	45:UG:423:GLU:HG3	2.20	0.42
46:UJ:164:MET:H	46:UJ:197:ASP:HB2	1.85	0.42
46:UJ:324:LYS:HA	46:UJ:327:ASP:OD1	2.20	0.42
45:UK:235:ILE:HD13	45:UK:238:LEU:HD21	1.99	0.42
45:UM:287:SER:HB3	45:UM:290:GLU:HG2	2.01	0.42
45:VA:183:GLU:N	45:VA:184:PRO:HD2	2.34	0.42
45:VA:398:MET:HE2	45:VA:398:MET:HB3	1.92	0.42
46:VB:325:GLU:OE2	46:VB:325:GLU:N	2.51	0.42
46:VB:326:VAL:O	46:VB:330:MET:HG2	2.19	0.42
45:VC:431:ASP:O	45:VC:434:GLU:HG3	2.19	0.42
45:VG:88:HIS:HB3	45:VG:91:GLN:HG2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VG:100:ALA:HB1	46:VH:252:LYS:HA	2.00	0.42
45:VG:141:VAL:HG11	45:VG:172:TYR:CE1	2.54	0.42
45:VG:145:THR:HG22	47:VG:501:GTP:PG	2.59	0.42
45:VG:288:VAL:O	45:VG:291:ILE:HG22	2.20	0.42
46:VH:383:GLU:HA	46:VH:386:THR:HG22	2.00	0.42
45:VI:5:ILE:HB	45:VI:135:PHE:CD2	2.54	0.42
45:VI:287:SER:O	45:VI:290:GLU:HG2	2.19	0.42
45:VK:395:PHE:HZ	45:VK:418:PHE:HB3	1.83	0.42
46:VL:178:THR:HB	46:VL:181:GLU:HG3	2.00	0.42
46:VN:187:LEU:HD11	46:VN:408:PHE:CE1	2.54	0.42
46:VN:292:GLN:HA	46:VN:295:ASP:OD2	2.19	0.42
45:WA:5:ILE:HB	45:WA:135:PHE:CD1	2.54	0.42
45:WA:71:GLU:HA	46:WB:2:ARG:HH22	1.84	0.42
45:WA:120:ASP:OD2	45:WA:121:ARG:N	2.53	0.42
46:WB:420:SER:O	46:WB:423:GLN:HG3	2.19	0.42
45:WC:222:PRO:HD2	46:WD:324:LYS:HG2	2.02	0.42
45:WE:308:ARG:H	45:WE:308:ARG:HG3	1.65	0.42
46:WF:285:THR:OG1	46:WF:287:PRO:HD2	2.19	0.42
45:WI:215:ARG:NH1	45:WI:299:ALA:O	2.52	0.42
45:WI:342:GLN:N	45:WI:342:GLN:OE1	2.53	0.42
46:WJ:208:TYR:HA	46:WJ:211:CYS:SG	2.60	0.42
46:WJ:396:HIS:HA	46:WJ:399:THR:CG2	2.43	0.42
45:WK:71:GLU:OE1	45:WK:73:THR:OG1	2.18	0.42
45:WK:73:THR:OG1	46:WL:247:ASN:ND2	2.53	0.42
45:WK:222:PRO:O	46:WL:322:SER:HB2	2.20	0.42
45:WK:420:GLU:HG2	45:WK:421:ALA:N	2.34	0.42
45:WK:421:ALA:HA	45:WK:424:ASP:OD1	2.19	0.42
46:WL:7:ILE:HG13	46:WL:64:ILE:HD13	2.01	0.42
45:CE:18:ASN:O	45:CE:22:GLU:OE1	2.37	0.42
45:CE:387:VAL:HA	45:CE:390:ARG:HG2	2.02	0.42
1:0A:137:GLN:NE2	1:0A:141:GLN:OE1	2.45	0.42
6:0F:75:ARG:HG3	6:0F:76:PHE:HD2	1.85	0.42
7:0G:143:ASP:OD1	45:JM:85:GLN:NE2	2.52	0.42
11:0S:279:LYS:O	11:0S:281:LEU:N	2.45	0.42
11:0S:284:GLY:O	11:0S:287:ILE:HG22	2.19	0.42
13:0U:109:SER:OG	13:0U:118:ALA:HB3	2.19	0.42
13:0U:397:LEU:HD22	13:0U:398:TYR:HD1	1.84	0.42
1:1A:67:PRO:HG3	46:MF:53:GLU:HG3	2.00	0.42
16:1B:178:PRO:HG2	16:1B:181:LYS:HG2	2.00	0.42
16:1B:312:GLU:H	16:1B:312:GLU:HG2	1.70	0.42
4:1D:221:PRO:CD	4:1D:222:ASN:H	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:1D:224:ARG:NH2	34:4R:583:GLN:HA	2.29	0.42
7:1G:108:SER:O	7:1G:112:LYS:HA	2.19	0.42
7:1G:144:TYR:HE1	45:KA:278:ALA:C	2.28	0.42
8:1H:194:GLN:NE2	45:HG:282:TYR:HB2	2.35	0.42
20:1K:238:LYS:HA	20:1K:241:LEU:HD12	2.02	0.42
21:1L:811:PHE:HD1	21:1L:812:LEU:HD22	1.85	0.42
22:1M:122:LYS:HE2	22:1M:268:GLN:NE2	2.34	0.42
22:1M:288:LEU:HD12	39:6F:54:TYR:C	2.44	0.42
23:1O:177:LYS:HD2	46:UD:362:LYS:NZ	2.34	0.42
24:1P:257:LYS:O	24:1P:261:GLU:OE1	2.38	0.42
10:1Q:41:ASP:O	10:1Q:186:PRO:HB3	2.18	0.42
10:1Q:84:LYS:C	10:1Q:85:LYS:HD2	2.45	0.42
25:1R:111:VAL:HG23	25:1R:112:GLU:N	2.34	0.42
25:1R:312:GLN:OE1	46:CD:361:LEU:HG	2.19	0.42
11:1S:163:ASP:OD1	11:1S:164:GLN:N	2.52	0.42
11:1S:289:GLU:O	11:1S:292:GLU:HG3	2.20	0.42
12:1T:64:MET:HE1	12:1T:148:CYS:SG	2.59	0.42
1:2A:130:SER:C	1:2A:132:ASP:N	2.77	0.42
27:2C:230:ASP:O	27:2C:234:LEU:HD23	2.20	0.42
4:2D:91:ILE:HG23	4:2D:92:ASN:N	2.35	0.42
5:2E:45:ARG:NE	34:5R:379:LYS:NZ	2.67	0.42
31:2I:36:ARG:CZ	31:2I:36:ARG:HA	2.48	0.42
31:2I:101:GLU:HA	46:FF:114:ASP:OD1	2.20	0.42
20:2K:300:ILE:HB	46:GL:276:ARG:HH22	1.84	0.42
21:2L:406:ARG:NH1	46:CN:357:PRO:O	2.53	0.42
21:2L:534:PHE:CE1	45:BM:219:ILE:HG22	2.55	0.42
21:2L:644:ILE:C	46:CL:362:LYS:HD2	2.44	0.42
23:2O:414:ILE:HG22	23:2O:418:GLN:NE2	2.34	0.42
10:2Q:69:LEU:O	10:2Q:69:LEU:HD23	2.19	0.42
25:2R:306:LYS:N	25:2R:320:ASN:O	2.44	0.42
13:2U:107:SER:O	13:2U:108:LEU:HD23	2.20	0.42
14:2V:231:LYS:HD3	14:2V:233:ASP:N	2.33	0.42
14:2V:246:ARG:HD2	14:2V:247:GLU:N	2.34	0.42
15:2X:123:ASN:HA	15:2X:126:ARG:NH1	2.34	0.42
16:3B:98:LEU:O	16:3B:102:LYS:HG2	2.19	0.42
32:3D:145:PHE:HD1	32:3D:166:HIS:HB2	1.85	0.42
30:3H:196:SER:HB3	46:AH:40:SER:HB2	2.02	0.42
23:3O:406:ARG:NH1	46:UH:276:ARG:HD2	2.32	0.42
13:3U:292:HIS:HB3	13:3U:304:TRP:CZ2	2.55	0.42
14:3V:141:ASN:ND2	45:LC:405:VAL:HB	2.34	0.42
15:3X:34:TYR:CZ	15:3X:38:ILE:HD11	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:4C:122:VAL:HG11	27:4C:127:LEU:HD21	2.00	0.42
10:4Q:77:VAL:HG11	10:4Q:166:TYR:CZ	2.55	0.42
10:4Q:77:VAL:HG11	10:4Q:166:TYR:CE2	2.55	0.42
35:4S:186:ILE:HG13	35:4S:187:LEU:HD22	2.02	0.42
15:4X:83:MET:HE2	15:4X:83:MET:HA	2.01	0.42
36:5B:75:TYR:HD1	46:NF:320:ARG:CZ	2.33	0.42
36:5C:68:ASP:HA	37:5G:69:LYS:HE3	2.01	0.42
37:5F:78:LEU:HD22	37:5F:97:ARG:HE	1.84	0.42
37:5H:61:LYS:HZ2	46:ON:276:ARG:HH21	1.63	0.42
34:5R:462:ASN:HD22	41:6H:326:HIS:CE1	2.38	0.42
40:6G:264:SER:OG	40:6G:266:PRO:HD3	2.19	0.42
41:6H:168:ASN:HA	46:FB:360:GLY:HA2	2.01	0.42
46:AB:65:LEU:HD22	46:AB:90:PHE:CE1	2.52	0.42
46:AB:70:PRO:O	46:AB:74:ASP:HB2	2.19	0.42
45:AC:287:SER:O	45:AC:290:GLU:HG3	2.19	0.42
46:AD:77:ARG:HB3	46:AD:77:ARG:HH11	1.84	0.42
46:AD:86:ARG:HB3	46:AD:89:ASN:OD1	2.19	0.42
45:AG:141:VAL:HG11	45:AG:172:TYR:CD2	2.54	0.42
45:AG:175:PRO:HB2	45:AG:176:GLN:OE1	2.20	0.42
46:AJ:86:ARG:HB2	46:AJ:89:ASN:OD1	2.19	0.42
45:AK:74:VAL:O	45:AK:78:VAL:HG23	2.19	0.42
45:AK:227:LEU:O	45:AK:231:ILE:HG12	2.19	0.42
46:AN:68:LEU:HB3	46:AN:96:GLY:HA2	2.02	0.42
45:BC:3:GLU:OE2	45:BC:64:ARG:NH2	2.53	0.42
45:BE:222:PRO:HG2	46:BF:324:LYS:HD2	2.02	0.42
45:BE:259:LEU:HD11	45:BE:316:SER:HB3	2.02	0.42
46:BF:282:ARG:NH2	46:BF:292:GLN:OE1	2.52	0.42
45:BG:384:ILE:O	45:BG:387:VAL:HG22	2.19	0.42
46:BH:21:TRP:CZ3	46:BH:61:PRO:HB3	2.54	0.42
45:BI:387:VAL:HG12	45:BI:390:ARG:NH1	2.35	0.42
45:BI:387:VAL:HA	45:BI:390:ARG:HG2	2.01	0.42
46:BJ:287:PRO:HD3	46:BJ:329:GLN:HE22	1.85	0.42
45:BM:11:GLN:O	45:BM:15:GLN:HG3	2.19	0.42
45:CA:234:VAL:HG21	45:CA:302:MET:HE1	2.02	0.42
46:CB:241:ARG:HG3	46:CB:242:PHE:CD1	2.55	0.42
46:CD:66:MET:HE2	46:CD:66:MET:HB3	1.82	0.42
46:CF:86:ARG:HG2	46:DF:281:TYR:CE1	2.54	0.42
46:CF:321:MET:N	46:CF:321:MET:SD	2.93	0.42
46:CH:186:THR:HA	46:CH:189:VAL:HG12	2.00	0.42
46:CJ:113:ILE:HA	46:CJ:116:VAL:HG12	2.00	0.42
46:CL:392:LYS:HA	46:CL:395:LEU:CD1	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CN:25:SER:OG	46:CN:51:TYR:OH	2.29	0.42
46:DD:20:PHE:O	46:DD:24:ILE:HG12	2.19	0.42
45:DE:5:ILE:HB	45:DE:135:PHE:HD1	1.84	0.42
45:DG:11:GLN:HB2	45:DG:74:VAL:HG11	2.00	0.42
45:DG:123:ARG:HA	45:DG:123:ARG:HH11	1.85	0.42
46:DH:167:PHE:CD2	46:DH:202:ILE:HD11	2.53	0.42
46:DH:257:LEU:HB3	46:DH:266:PHE:CZ	2.52	0.42
45:DI:384:ILE:O	45:DI:387:VAL:HG22	2.19	0.42
46:DJ:165:GLU:OE1	46:DJ:198:GLU:HG3	2.18	0.42
46:DL:420:SER:O	46:DL:423:GLN:HG3	2.20	0.42
45:DM:36:MET:SD	45:DM:37:PRO:HD2	2.59	0.42
46:DN:145:SER:HB2	46:DN:188:SER:HB3	2.00	0.42
46:EB:280:GLN:N	46:EB:280:GLN:OE1	2.52	0.42
45:EC:154:LEU:HG	45:EC:197:HIS:HB3	2.00	0.42
45:EC:412:GLY:C	45:EC:413:MET:HE2	2.44	0.42
46:EF:171:PRO:HB3	46:EF:181:GLU:HB3	2.02	0.42
46:EF:317:PHE:HB3	46:EF:321:MET:HE2	2.01	0.42
46:EH:145:SER:HB2	46:EH:188:SER:HB3	2.01	0.42
46:EH:322:SER:HB2	45:EI:222:PRO:O	2.20	0.42
46:EJ:3:GLU:HG3	46:EJ:62:ARG:HH12	1.84	0.42
46:EJ:199:CYS:O	46:EJ:200:MET:HE2	2.18	0.42
46:EJ:306:ARG:HG2	46:EJ:340:TYR:CE2	2.55	0.42
46:EJ:331:LEU:HG	45:EK:177:VAL:HG22	2.00	0.42
45:EK:215:ARG:NH2	45:EK:299:ALA:O	2.52	0.42
45:EK:268:MET:HG3	45:EK:380:ASN:HB2	2.02	0.42
45:EM:115:VAL:HG22	45:EM:156:ARG:HH11	1.84	0.42
46:EN:212:PHE:CE2	46:EN:220:PRO:HG2	2.55	0.42
45:FC:141:VAL:HG11	45:FC:172:TYR:HA	2.01	0.42
45:FC:171:ILE:HG23	45:FC:204:LEU:O	2.19	0.42
46:FD:248:SER:HA	46:FD:252:LYS:HD2	2.00	0.42
46:FD:309:ARG:N	46:FD:372:THR:OG1	2.42	0.42
45:FE:237:SER:HA	45:FE:320:ARG:HH11	1.84	0.42
46:FH:290:THR:O	46:FH:293:MET:HB3	2.18	0.42
46:FL:183:TYR:CE2	46:FL:388:MET:HB3	2.53	0.42
46:FN:137:HIS:HE1	46:FN:139:LEU:CD2	2.32	0.42
45:GC:174:SER:OG	45:GC:205:ASP:OD1	2.37	0.42
45:GE:21:TRP:CZ2	45:GE:65:ALA:HB2	2.55	0.42
45:GG:286:LEU:HA	45:GG:290:GLU:OE2	2.19	0.42
46:GH:1:MET:HE2	46:GH:129:CYS:HB3	2.02	0.42
46:GH:239:CYS:SG	46:GH:247:ASN:HA	2.60	0.42
45:GI:215:ARG:NH2	45:GI:300:ASN:OD1	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GN:268:ILE:HG22	46:GN:368:VAL:HG22	2.01	0.42
45:HA:195:LEU:O	45:HA:266:HIS:NE2	2.39	0.42
46:HB:66:MET:SD	46:HB:147:MET:HE3	2.59	0.42
45:HC:175:PRO:HG3	45:HC:390:ARG:NH1	2.35	0.42
46:HD:404:ASP:O	46:HD:407:GLU:HG2	2.19	0.42
45:HE:238:LEU:HD11	45:HE:255:PHE:CE2	2.55	0.42
46:HF:282:ARG:NH2	46:HF:292:GLN:OE1	2.50	0.42
45:HG:289:ALA:O	45:HG:292:THR:HG22	2.19	0.42
46:HJ:116:VAL:HA	46:HJ:119:VAL:HG12	2.02	0.42
46:HL:200:MET:CE	46:HL:268:ILE:HG21	2.49	0.42
46:HN:258:ILE:HG13	46:HN:266:PHE:HZ	1.84	0.42
45:IA:150:GLY:O	45:IA:154:LEU:HD23	2.20	0.42
45:IA:245:ASP:N	45:IA:245:ASP:OD1	2.51	0.42
45:IA:261:PRO:CD	45:IA:262:TYR:H	2.18	0.42
45:IC:133:GLN:HB3	45:IC:252:ILE:HD11	2.01	0.42
45:IE:329:ASN:O	45:IE:332:ILE:HG22	2.19	0.42
45:IE:408:TYR:HB3	45:IE:413:MET:HE3	2.02	0.42
45:IG:69:ASP:HB3	45:IG:75:ILE:HD11	2.00	0.42
45:IG:280:LYS:HD2	45:IG:280:LYS:HA	1.79	0.42
46:IH:310:TYR:HE1	46:IH:367:PHE:HZ	1.67	0.42
46:IJ:238:CYS:SG	46:IJ:239:CYS:N	2.92	0.42
46:IJ:247:ASN:ND2	46:IJ:247:ASN:H	2.17	0.42
46:IJ:247:ASN:N	46:IJ:247:ASN:HD22	2.16	0.42
45:IK:261:PRO:HA	46:IN:394:PHE:CD2	2.54	0.42
46:IL:3:GLU:OE1	46:IL:127:CYS:HB3	2.20	0.42
46:IN:109:GLY:HA2	46:IN:112:LEU:HB3	2.01	0.42
46:IN:116:VAL:HA	46:IN:119:VAL:HG12	2.02	0.42
45:JA:31:GLN:OE1	45:JA:37:PRO:HD3	2.19	0.42
45:JA:63:PRO:HG2	45:JA:87:PHE:CE1	2.55	0.42
45:JC:52:PHE:HZ	45:JC:239:THR:HG21	1.84	0.42
45:JK:278:ALA:HA	45:JK:369:ALA:HB2	2.01	0.42
45:KA:89:PRO:HD3	45:LA:283:HIS:CE1	2.54	0.42
45:KA:227:LEU:O	45:KA:231:ILE:HG12	2.20	0.42
46:KD:8:GLN:OE1	46:KD:17:GLY:HA3	2.19	0.42
46:KD:122:LYS:HG3	46:LD:291:GLN:HE21	1.85	0.42
46:KD:146:GLY:O	46:KD:149:THR:HG22	2.19	0.42
46:KF:226:ASN:HA	46:KF:229:VAL:HG12	2.01	0.42
46:KH:292:GLN:HG2	46:KH:298:ASN:ND2	2.30	0.42
46:KJ:293:MET:HE3	46:KJ:293:MET:HB3	1.85	0.42
46:KL:2:ARG:HB2	46:KL:131:GLN:HG3	2.01	0.42
46:KN:68:LEU:HD23	46:KN:143:THR:OG1	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KN:259:PRO:HG2	46:KN:311:LEU:HD21	2.02	0.42
45:LE:171:ILE:HG23	45:LE:204:LEU:O	2.19	0.42
45:LE:384:ILE:O	45:LE:387:VAL:HG22	2.19	0.42
46:LF:417:ASP:O	46:LF:421:GLU:OE1	2.38	0.42
45:LG:351:PHE:HB2	46:LJ:176:SER:HB3	2.01	0.42
45:LI:428:LEU:HD12	45:LI:428:LEU:HA	1.88	0.42
46:LJ:285:THR:HB	46:LJ:287:PRO:HD2	2.01	0.42
45:LM:188:ILE:HD11	45:LM:391:LEU:HG	2.02	0.42
46:LN:286:VAL:HG21	46:LN:325:GLU:OE2	2.19	0.42
46:MF:8:GLN:HE21	46:MF:65:LEU:HD11	1.84	0.42
45:MG:102:ASN:ND2	45:MG:105:ARG:HG3	2.35	0.42
45:MI:118:CYS:O	45:MI:122:ILE:HG12	2.20	0.42
45:MI:425:LEU:HD23	45:MI:425:LEU:HA	1.90	0.42
45:MK:107:HIS:ND1	45:MK:107:HIS:O	2.53	0.42
46:NB:47:ILE:HG23	46:NB:51:TYR:CD2	2.54	0.42
46:NB:47:ILE:HG23	46:NB:51:TYR:HD2	1.84	0.42
46:NB:238:CYS:HA	46:NB:241:ARG:NH1	2.34	0.42
45:NC:408:TYR:O	45:NC:413:MET:HB3	2.19	0.42
46:ND:309:ARG:N	46:ND:372:THR:OG1	2.52	0.42
45:NE:258:ASN:ND2	45:NE:352:LYS:HD2	2.34	0.42
46:NF:363:MET:HE2	46:NF:363:MET:HB2	1.90	0.42
46:NH:316:LEU:HD13	46:NH:352:SER:OG	2.19	0.42
46:NH:407:GLU:O	46:NH:410:GLU:HG3	2.20	0.42
45:NI:209:ILE:HD12	45:NI:227:LEU:HD22	2.01	0.42
45:NI:414:GLU:CD	45:NI:416:GLY:H	2.28	0.42
46:NJ:222:TYR:HD1	49:NJ:501:GDP:C6	2.37	0.42
46:NJ:256:ASN:CB	46:NJ:350:LYS:HD2	2.50	0.42
46:NN:245:GLN:HG2	46:NN:353:ILE:HG21	2.01	0.42
45:OA:271:SER:OG	45:OA:301:MET:HG3	2.20	0.42
45:OA:330:ALA:O	45:OA:334:THR:HG23	2.20	0.42
45:OC:331:SER:O	45:OC:335:ILE:HG12	2.19	0.42
46:OD:309:ARG:NH1	46:OD:339:SER:O	2.51	0.42
46:OD:345:ILE:HG13	46:OD:345:ILE:O	2.20	0.42
45:OE:105:ARG:NH1	45:OE:411:GLU:OE2	2.53	0.42
45:OI:188:ILE:HD12	45:OI:425:LEU:HD22	2.01	0.42
45:OK:3:GLU:OE2	45:OK:131:GLY:N	2.53	0.42
45:OM:164:LYS:HD3	45:OM:164:LYS:HA	1.80	0.42
45:OM:297:GLU:HB2	45:OM:300:ASN:HD22	1.85	0.42
45:PA:105:ARG:HH11	46:PB:251:ARG:HH12	1.68	0.42
46:PD:341:PHE:HD2	46:PD:348:ASN:HD21	1.66	0.42
45:PE:84:ARG:HG3	45:PE:85:GLN:NE2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PE:352:LYS:HA	46:PH:177:ASP:O	2.19	0.42
46:PF:214:THR:HG23	46:PF:215:LEU:HD22	2.02	0.42
45:PG:22:GLU:HG2	45:PG:83:TYR:OH	2.20	0.42
45:PG:236:SER:HA	45:PG:239:THR:HG22	2.02	0.42
46:PH:187:LEU:O	46:PH:191:GLN:NE2	2.50	0.42
46:PH:415:MET:HE2	46:PH:415:MET:HB2	1.86	0.42
46:PJ:318:ARG:HB3	46:PJ:357:PRO:HA	2.02	0.42
46:PL:317:PHE:CD2	46:PL:365:VAL:HG22	2.55	0.42
45:PM:222:PRO:HG2	46:PN:324:LYS:CE	2.50	0.42
45:PM:231:ILE:O	45:PM:235:ILE:HG12	2.20	0.42
45:QC:311:LYS:HE3	45:QC:343:PHE:C	2.44	0.42
45:QE:99:ALA:HB3	45:QE:145:THR:HB	2.01	0.42
45:QG:296:PHE:HE2	45:QG:335:ILE:HG21	1.85	0.42
45:QG:319:TYR:CE1	45:QG:375:VAL:HB	2.55	0.42
45:QI:208:ALA:O	45:QI:212:ILE:HG12	2.19	0.42
45:QK:384:ILE:O	45:QK:387:VAL:HG12	2.19	0.42
46:QL:68:LEU:HD13	46:QL:143:THR:OG1	2.19	0.42
46:QL:321:MET:CG	45:QM:221:ARG:HH22	2.32	0.42
45:QM:217:LEU:HD11	45:QM:367:ASP:HB3	2.00	0.42
46:RD:117:LEU:HD21	46:RD:121:ARG:HH22	1.85	0.42
45:RE:220:GLU:OE2	45:RE:221:ARG:NH1	2.52	0.42
45:RE:404:PHE:HD1	45:RE:407:TRP:CZ3	2.36	0.42
46:RF:113:ILE:HD13	46:RF:154:LYS:HE3	2.02	0.42
46:RH:409:THR:O	46:RH:412:GLU:HG3	2.19	0.42
46:RJ:66:MET:HG2	46:RJ:147:MET:HE1	2.01	0.42
46:RJ:108:GLU:O	46:RJ:111:GLU:HG3	2.19	0.42
46:RL:69:GLU:HA	46:RL:70:PRO:HD3	1.90	0.42
46:RL:299:MET:HE2	46:RL:301:CYS:SG	2.59	0.42
46:RL:309:ARG:NH1	46:RL:426:GLN:O	2.53	0.42
46:RL:324:LYS:O	46:RL:325:GLU:C	2.63	0.42
46:RN:139:LEU:HD13	46:RN:168:SER:HB3	2.02	0.42
46:RN:293:MET:HG3	46:RN:367:PHE:HB2	2.02	0.42
46:RN:312:THR:HG22	46:RN:370:ASN:HB3	2.00	0.42
46:SB:163:ILE:O	46:SB:164:MET:HE2	2.19	0.42
46:SB:326:VAL:HG21	46:SB:353:ILE:HD11	2.02	0.42
45:SC:10:GLY:O	45:SC:14:ILE:HG12	2.19	0.42
45:SC:90:GLU:N	45:SC:90:GLU:OE1	2.52	0.42
46:SD:406:MET:O	46:SD:410:GLU:OE1	2.36	0.42
46:SF:289:LEU:HD13	46:SF:365:VAL:HG23	2.02	0.42
45:SG:120:ASP:HB3	45:SG:124:LYS:NZ	2.33	0.42
46:SH:303:ALA:HA	46:SH:376:GLU:OE2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SL:4:ILE:HD11	46:SL:50:TYR:HE2	1.83	0.42
46:SL:40:SER:H	46:SL:43:GLN:NE2	2.18	0.42
46:SL:51:TYR:HE1	46:SL:61:PRO:HG3	1.85	0.42
46:SL:210:ILE:HD11	46:SL:299:MET:O	2.18	0.42
46:SN:139:LEU:HD13	46:SN:168:SER:HB3	2.00	0.42
46:TB:196:ALA:HB3	46:TB:264:HIS:CE1	2.54	0.42
45:TE:247:ALA:C	45:TE:248:LEU:HD12	2.44	0.42
46:TJ:294:PHE:CD2	46:TJ:333:VAL:HG11	2.55	0.42
45:TM:223:THR:HG23	45:TM:225:THR:H	1.85	0.42
46:UB:65:LEU:HD22	46:UB:90:PHE:CE1	2.49	0.42
45:UC:387:VAL:O	45:UC:391:LEU:HD23	2.20	0.42
46:UJ:2:ARG:HG3	46:UJ:2:ARG:NH1	2.34	0.42
45:UK:88:HIS:H	45:UK:91:GLN:NE2	2.17	0.42
46:UL:44:LEU:HD23	46:UL:44:LEU:HA	1.89	0.42
46:UL:102:ALA:HB2	46:UL:398:TYR:CD1	2.55	0.42
45:UM:183:GLU:N	45:UM:184:PRO:HD2	2.34	0.42
46:UN:133:PHE:CD1	46:UN:164:MET:HE1	2.55	0.42
45:VA:79:ARG:O	45:VA:84:ARG:NE	2.53	0.42
45:VA:387:VAL:HG23	45:VA:388:PHE:HD2	1.85	0.42
46:VB:210:ILE:O	46:VB:214:THR:HG22	2.19	0.42
45:VC:104:ALA:HB2	45:VC:413:MET:HG2	2.01	0.42
45:VE:393:HIS:O	45:VE:397:LEU:HD23	2.19	0.42
45:VK:47:ASP:OD2	45:VK:50:ASN:ND2	2.51	0.42
46:VL:154:LYS:O	46:VL:157:GLU:HG3	2.19	0.42
46:VL:210:ILE:O	46:VL:214:THR:HG22	2.20	0.42
46:VL:345:ILE:O	46:VL:345:ILE:HG23	2.20	0.42
46:VN:286:VAL:CG1	46:VN:287:PRO:HD3	2.49	0.42
46:WB:147:MET:O	46:WB:150:LEU:HG	2.19	0.42
46:WB:256:ASN:CB	46:WB:350:LYS:HE3	2.48	0.42
45:WC:133:GLN:HE21	45:WC:252:ILE:HG12	1.84	0.42
46:WD:332:ASN:C	46:WD:336:LYS:HZ2	2.28	0.42
46:WH:332:ASN:C	46:WH:336:LYS:HZ2	2.27	0.42
46:WJ:296:ALA:O	46:WJ:299:MET:HG2	2.20	0.42
46:WJ:391:ARG:HD2	46:WJ:391:ARG:HA	1.78	0.42
46:WL:309:ARG:NH1	46:WL:343:GLU:OE2	2.52	0.42
46:WL:325:GLU:OE2	46:WL:326:VAL:HG13	2.20	0.42
45:WM:331:SER:O	45:WM:335:ILE:HG12	2.19	0.42
45:WM:391:LEU:HD22	45:WM:394:LYS:NZ	2.35	0.42
45:CE:319:TYR:CD2	45:CE:328:VAL:HG22	2.54	0.42
1:0A:36:ARG:NH1	1:0A:38:SER:HB3	2.35	0.42
2:0B:94:ASN:HA	2:0B:98:LEU:HD12	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0D:37:GLN:H	4:0D:62:THR:HG21	1.84	0.42
5:0E:161:LEU:O	5:0E:165:ILE:HG12	2.19	0.42
9:0N:31:LYS:O	9:0N:34:LEU:HB2	2.20	0.42
10:0Q:177:LEU:HA	10:0Q:178:PRO:HD3	1.94	0.42
13:0U:5:LEU:HD11	13:0U:603:LYS:O	2.20	0.42
13:0U:193:LYS:NZ	46:WB:80:PRO:HD2	2.34	0.42
13:0U:323:ILE:HD12	13:0U:323:ILE:H	1.84	0.42
13:0U:365:CYS:HB3	13:0U:381:TRP:CE2	2.54	0.42
16:1B:28:SER:O	16:1B:32:LEU:HD23	2.19	0.42
16:1B:130:HIS:HB3	16:1B:133:VAL:HG12	2.02	0.42
16:1B:181:LYS:HD2	26:1W:145:GLU:OE1	2.19	0.42
4:1D:205:ILE:O	4:1D:208:GLU:HG3	2.20	0.42
5:1E:145:GLU:O	5:1E:148:GLN:HB2	2.20	0.42
7:1G:52:LYS:HD2	7:1G:53:ASN:CG	2.44	0.42
7:1G:105:TYR:HD2	45:JA:77:GLU:OE2	2.01	0.42
8:1H:154:GLU:OE1	33:4F:19:TYR:CD2	2.72	0.42
19:1J:121:LYS:O	45:IE:219:ILE:HD12	2.19	0.42
20:1K:53:LYS:O	20:1K:57:GLU:HG2	2.19	0.42
21:1L:52:ASP:OD2	45:BI:221:ARG:HD2	2.20	0.42
21:1L:484:ALA:O	21:1L:488:LYS:HG2	2.20	0.42
22:1M:275:PRO:O	22:1M:278:GLU:HG3	2.19	0.42
23:1O:105:LYS:HE2	23:1O:105:LYS:HB3	1.95	0.42
24:1P:76:LEU:O	24:1P:80:THR:HG23	2.20	0.42
24:1P:198:ARG:HA	24:1P:201:GLU:OE1	2.19	0.42
10:1Q:61:ALA:HB3	10:1Q:62:PRO:HD3	2.01	0.42
25:1R:454:ARG:NH2	46:FD:218:THR:HG22	2.32	0.42
25:1R:480:GLN:HG3	25:1R:481:PRO:HD2	2.00	0.42
11:1S:80:VAL:HG13	11:1S:83:ASP:HB3	2.01	0.42
11:1S:105:SER:OG	11:1S:107:GLN:HG3	2.19	0.42
13:1U:377:ILE:O	13:1U:388:ALA:HA	2.19	0.42
13:1U:508:THR:OG1	13:1U:536:VAL:HG13	2.20	0.42
14:1V:224:GLN:NE2	46:WL:281:TYR:HE2	2.17	0.42
15:1X:81:ARG:HD3	46:MF:276:ARG:HH21	1.84	0.42
5:2E:146:PHE:O	5:2E:149:ASN:ND2	2.46	0.42
29:2G:32:ASN:O	29:2G:35:GLU:HG3	2.19	0.42
31:2I:61:GLN:HE21	31:2I:61:GLN:HB2	1.61	0.42
21:2L:666:PHE:CE2	21:2L:670:LEU:HD11	2.55	0.42
21:2L:790:ILE:O	21:2L:794:GLU:HG2	2.19	0.42
22:2M:123:MET:HB2	22:2M:157:VAL:HA	1.99	0.42
23:2O:170:LYS:HA	23:2O:170:LYS:HD3	1.82	0.42
23:2O:211:ILE:HG12	40:6G:85:PRO:HG2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:2O:282:GLU:HA	23:2O:285:GLU:OE2	2.19	0.42
11:2S:252:TYR:HB3	11:2S:256:LEU:HD23	2.02	0.42
12:2T:202:ARG:HD2	12:2T:203:TYR:N	2.35	0.42
12:2T:285:ARG:NH2	13:2U:52:ARG:HG2	2.35	0.42
14:2V:150:LYS:HE3	14:2V:150:LYS:HB3	1.89	0.42
15:2X:49:ILE:HD13	15:2X:49:ILE:HA	1.91	0.42
27:3C:49:GLN:NE2	27:3C:83:ASN:HD21	2.17	0.42
21:3L:113:ASN:O	21:3L:114:LEU:HB2	2.19	0.42
21:3L:137:GLN:HE22	21:3L:141:LEU:HD11	1.84	0.42
23:3O:414:ILE:HG22	23:3O:418:GLN:HE22	1.84	0.42
13:3U:365:CYS:HB3	13:3U:381:TRP:CD2	2.54	0.42
14:3V:22:ARG:HG3	14:3V:23:TYR:HD1	1.85	0.42
14:3V:89:ASN:HB2	14:3V:95:SER:HB3	2.02	0.42
14:3V:245:GLU:O	14:3V:249:THR:HG23	2.19	0.42
15:3X:11:GLU:HG3	15:3X:12:HIS:H	1.84	0.42
34:4R:235:LYS:HA	34:4R:235:LYS:HD3	1.82	0.42
35:4S:156:PRO:O	35:4S:160:THR:HG23	2.20	0.42
36:5D:72:LYS:HD3	36:5D:72:LYS:C	2.44	0.42
37:5F:54:LYS:HZ2	37:5F:54:LYS:HB3	1.85	0.42
37:5G:184:GLN:HE21	37:5G:188:GLN:HG3	1.84	0.42
37:5H:110:ARG:CZ	37:5H:112:ALA:HB3	2.49	0.42
37:5H:123:ARG:HG3	45:OM:372:MET:CE	2.50	0.42
10:5Q:79:ILE:C	10:5Q:80:ILE:HD13	2.45	0.42
34:5R:364:MET:HE1	34:5R:366:LEU:HB3	2.02	0.42
41:6H:253:SER:HB2	41:6H:255:TYR:HE1	1.84	0.42
41:6H:255:TYR:HB3	46:FF:42:LEU:HD12	2.01	0.42
34:6R:247:LYS:NZ	34:6R:283:ASP:OD2	2.30	0.42
34:7R:294:ASN:OD1	46:DB:217:LEU:HD11	2.20	0.42
34:7R:541:LYS:HD2	34:7R:541:LYS:N	2.30	0.42
45:AA:433:GLU:O	45:AA:437:ILE:HG23	2.19	0.42
45:AC:251:ASP:HB2	45:AC:253:THR:HG22	2.01	0.42
45:AC:345:ASP:OD2	45:AC:438:GLU:HG2	2.19	0.42
46:AD:316:LEU:HG	46:AD:352:SER:OG	2.19	0.42
45:AE:200:VAL:HG13	45:AE:268:MET:HE1	2.01	0.42
45:AE:317:MET:HB3	45:AE:377:MET:HG2	2.00	0.42
46:AH:1:MET:O	46:AH:2:ARG:HG2	2.20	0.42
45:AI:113:GLU:OE1	45:AI:113:GLU:N	2.51	0.42
45:BC:186:ASN:OD1	45:BC:187:SER:N	2.53	0.42
46:BD:3:GLU:CD	46:BD:3:GLU:H	2.28	0.42
45:BE:356:ASN:OD1	45:BE:357:TYR:N	2.52	0.42
45:BG:180:ALA:HA	46:BH:350:LYS:NZ	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BJ:175:VAL:HG23	46:BJ:175:VAL:O	2.19	0.42
46:BJ:399:THR:HA	46:BJ:403:MET:O	2.19	0.42
45:BK:175:PRO:HB2	45:BK:176:GLN:OE1	2.19	0.42
46:BL:9:GLY:HA3	46:BL:66:MET:SD	2.59	0.42
45:BM:200:VAL:HG13	45:BM:268:MET:SD	2.59	0.42
45:BM:311:LYS:HD2	45:BM:343:PHE:C	2.44	0.42
46:BN:3:GLU:OE1	46:BN:3:GLU:N	2.43	0.42
46:BN:66:MET:HE2	46:BN:147:MET:HE2	2.02	0.42
46:BN:173:PRO:HD2	46:BN:380:ARG:CZ	2.49	0.42
46:BN:184:ASN:OD1	46:BN:185:ALA:N	2.53	0.42
46:CB:73:MET:O	46:CB:77:ARG:HG2	2.20	0.42
46:CF:52:ASN:OD1	46:CF:62:ARG:NH2	2.52	0.42
45:CG:258:ASN:HD22	45:CG:352:LYS:HE3	1.83	0.42
46:CH:69:GLU:HA	46:CH:70:PRO:HD3	1.87	0.42
46:CH:251:ARG:HA	46:CH:251:ARG:HD3	1.83	0.42
45:CI:185:TYR:CZ	45:CI:398:MET:HE2	2.54	0.42
45:CI:188:ILE:HD11	45:CI:391:LEU:HB3	2.00	0.42
46:CN:67:ASP:OD1	46:CN:68:LEU:N	2.52	0.42
45:DA:167:LEU:HG	45:DA:200:VAL:HB	2.01	0.42
46:DB:164:MET:O	46:DB:197:ASP:HB2	2.19	0.42
46:DD:304:ASP:OD1	46:DD:306:ARG:HG2	2.20	0.42
45:DE:55:GLU:O	45:EE:285:GLN:NE2	2.31	0.42
45:DG:90:GLU:CD	45:EG:280:LYS:HZ3	2.25	0.42
45:DG:188:ILE:HG23	45:DG:425:LEU:HD11	2.02	0.42
45:DG:312:TYR:CD1	45:DG:381:SER:HB2	2.54	0.42
46:DJ:258:ILE:HG13	46:DJ:258:ILE:O	2.18	0.42
46:DL:136:THR:HG22	46:DL:167:PHE:HB2	2.02	0.42
46:DL:190:HIS:CD2	46:DL:414:ASN:HD21	2.37	0.42
46:DL:391:ARG:HA	46:DL:391:ARG:HD2	1.79	0.42
45:DM:75:ILE:HD12	45:DM:75:ILE:H	1.84	0.42
45:EC:271:SER:HA	45:EC:302:MET:HE1	2.02	0.42
46:ED:186:THR:HA	46:ED:189:VAL:HG22	2.02	0.42
46:ED:372:THR:HA	46:ED:422:TYR:CE2	2.55	0.42
45:EG:51:THR:HG22	45:EG:52:PHE:CD2	2.54	0.42
45:EG:210:TYR:CE1	45:EG:227:LEU:HD21	2.53	0.42
45:EM:259:LEU:HB3	45:EM:268:MET:SD	2.60	0.42
45:EM:430:LYS:HA	45:EM:433:GLU:HG3	2.02	0.42
46:FB:139:LEU:HD13	46:FB:168:SER:HB3	2.02	0.42
45:FC:289:ALA:O	45:FC:292:THR:HG22	2.19	0.42
45:FE:210:TYR:CE1	45:FE:227:LEU:HD11	2.54	0.42
45:FE:372:MET:N	45:FE:372:MET:SD	2.92	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FE:377:MET:HE2	45:FE:377:MET:HB2	1.93	0.42
45:FG:394:LYS:HZ2	46:FH:346:PRO:HG2	1.83	0.42
46:FH:289:LEU:HD13	46:FH:365:VAL:CG2	2.49	0.42
45:FK:407:TRP:CZ2	46:FL:258:ILE:HD11	2.50	0.42
46:FN:163:ILE:O	46:FN:164:MET:HE2	2.19	0.42
45:GA:98:ASP:OD2	46:GB:252:LYS:HE3	2.19	0.42
45:GA:100:ALA:HB3	45:GA:105:ARG:NH2	2.34	0.42
46:GB:55:THR:HG23	46:HB:283:ALA:HA	2.00	0.42
45:GE:22:GLU:O	45:GE:26:LEU:HD23	2.20	0.42
45:GE:27:GLU:HG3	45:GE:361:THR:HG21	2.01	0.42
45:GE:74:VAL:O	45:GE:77:GLU:HG2	2.20	0.42
46:GF:97:ALA:HB3	46:GF:143:THR:HB	2.01	0.42
45:GG:102:ASN:OD1	45:GG:105:ARG:N	2.45	0.42
45:GI:164:LYS:HA	45:GI:164:LYS:HD3	1.80	0.42
45:GK:97:GLU:OE2	46:GL:251:ARG:NH2	2.52	0.42
45:GK:188:ILE:HG13	45:GK:425:LEU:HD11	2.00	0.42
46:GL:293:MET:HG3	46:GL:294:PHE:CD1	2.53	0.42
45:GM:56:THR:HG23	45:GM:58:ALA:H	1.83	0.42
45:GM:141:VAL:HG12	45:GM:171:ILE:O	2.20	0.42
45:HA:186:ASN:OD1	45:HA:187:SER:N	2.53	0.42
45:HA:286:LEU:HA	45:HA:290:GLU:OE2	2.19	0.42
45:HA:398:MET:HE2	45:HA:398:MET:HB3	1.95	0.42
46:HD:36:TYR:CE2	46:HD:44:LEU:HD21	2.55	0.42
46:HF:226:ASN:ND2	49:HF:501:GDP:HN1	2.11	0.42
45:HG:10:GLY:O	45:HG:14:ILE:HG12	2.20	0.42
45:IA:88:HIS:HB3	45:IA:91:GLN:HG2	2.01	0.42
45:IA:336:LYS:O	45:IA:339:ARG:NH2	2.49	0.42
46:IB:69:GLU:HA	46:IB:70:PRO:HD3	1.86	0.42
45:IE:324:VAL:HG11	45:IE:326:LYS:HZ2	1.83	0.42
45:IG:172:TYR:HD1	45:IG:173:PRO:HD2	1.84	0.42
45:IK:145:THR:HG22	47:IK:501:GTP:PG	2.58	0.42
45:IM:141:VAL:HG12	45:IM:171:ILE:O	2.20	0.42
45:IM:414:GLU:OE1	45:IM:417:GLU:N	2.53	0.42
45:JA:296:PHE:HE1	45:JA:377:MET:HG3	1.84	0.42
46:JB:167:PHE:CZ	46:JB:233:MET:HG3	2.55	0.42
45:JC:287:SER:O	45:JC:290:GLU:HG2	2.19	0.42
45:JC:330:ALA:O	45:JC:334:THR:HG23	2.19	0.42
46:JD:311:LEU:HD23	46:JD:342:VAL:HG11	2.00	0.42
45:JE:265:ILE:HD11	45:JE:435:VAL:HG21	2.02	0.42
45:JE:420:GLU:OE2	45:NE:308:ARG:HD3	2.19	0.42
46:JF:404:ASP:HB3	46:JF:407:GLU:OE1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JG:37:PRO:O	45:JG:39:ASP:N	2.52	0.42
46:JH:244:GLY:HA2	46:JH:355:ASP:OD1	2.19	0.42
45:JM:10:GLY:O	45:JM:14:ILE:HG12	2.19	0.42
45:JM:141:VAL:HG21	45:JM:172:TYR:CD1	2.55	0.42
46:KB:11:GLN:HA	46:KB:72:THR:HG21	2.02	0.42
46:KB:184:ASN:OD1	46:KB:185:ALA:N	2.53	0.42
46:KD:69:GLU:HA	46:KD:70:PRO:HD3	1.90	0.42
46:KF:66:MET:HA	46:KF:91:VAL:HG23	2.02	0.42
46:KJ:330:MET:HB3	46:KJ:349:ILE:HD11	2.00	0.42
45:KM:5:ILE:HD12	45:KM:125:LEU:HD23	2.00	0.42
46:KN:86:ARG:NH1	46:KN:88:ASP:HB2	2.35	0.42
46:KN:148:GLY:O	46:KN:152:ILE:HG13	2.19	0.42
46:LB:201:VAL:HG13	46:LB:301:CYS:SG	2.60	0.42
45:LC:96:LYS:NZ	46:LD:1:MET:SD	2.91	0.42
45:LC:239:THR:HG23	45:LC:243:ARG:HH21	1.84	0.42
46:LD:117:LEU:HD12	46:LD:117:LEU:HA	1.90	0.42
45:LE:46:ASP:O	45:LE:47:ASP:HB2	2.20	0.42
46:LN:101:TRP:CD1	46:LN:146:GLY:HA2	2.55	0.42
46:LN:193:VAL:HG13	46:LN:194:GLU:HG2	2.01	0.42
45:MA:238:LEU:HA	45:MA:318:MET:HE3	2.01	0.42
46:MB:118:ASP:HA	46:MB:121:ARG:HG2	2.02	0.42
46:MB:187:LEU:HD11	46:MB:408:PHE:HD2	1.85	0.42
45:MC:22:GLU:HG2	45:MC:83:TYR:OH	2.19	0.42
45:MC:230:LEU:O	45:MC:234:VAL:HG23	2.19	0.42
45:ME:332:ILE:O	45:ME:336:LYS:HG3	2.18	0.42
45:MK:428:LEU:HG	45:MK:432:TYR:CE2	2.54	0.42
45:MM:21:TRP:CZ2	45:MM:65:ALA:HB2	2.53	0.42
46:NB:253:LEU:O	46:NB:257:LEU:HB2	2.19	0.42
46:NB:415:MET:HE2	46:NB:415:MET:HA	2.01	0.42
46:ND:21:TRP:CZ3	46:ND:61:PRO:HB3	2.55	0.42
46:ND:68:LEU:HA	46:ND:93:GLY:H	1.83	0.42
46:ND:282:ARG:HB3	46:ND:283:ALA:H	1.62	0.42
45:NE:258:ASN:CB	45:NE:352:LYS:HZ2	2.33	0.42
46:NF:257:LEU:O	46:NF:259:PRO:HD3	2.20	0.42
46:NF:284:LEU:HD13	46:NF:289:LEU:HD21	2.02	0.42
46:NH:19:LYS:O	46:NH:22:GLU:HB3	2.19	0.42
46:NJ:215:LEU:O	46:NJ:216:LYS:HG2	2.19	0.42
45:NK:153:LEU:HD23	45:NK:153:LEU:HA	1.86	0.42
45:NM:33:ASP:OD1	45:NM:34:GLY:N	2.53	0.42
45:OA:18:ASN:O	45:OA:22:GLU:OE1	2.38	0.42
46:OB:199:CYS:HB3	46:OB:265:PHE:CD1	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OC:356:ASN:OD1	45:OC:357:TYR:N	2.52	0.42
46:OD:49:VAL:HG12	46:OD:50:TYR:CD1	2.54	0.42
45:OE:8:HIS:HB2	45:OE:67:PHE:CD1	2.54	0.42
46:OF:306:ARG:HG3	46:OF:340:TYR:HE2	1.84	0.42
45:OG:88:HIS:CE1	45:PG:280:LYS:HE3	2.54	0.42
45:OG:269:LEU:HD23	45:OG:384:ILE:HD13	2.02	0.42
45:OI:165:SER:C	45:OI:166:LYS:HD3	2.45	0.42
46:OL:67:ASP:O	46:OL:92:PHE:HA	2.20	0.42
46:OL:213:ARG:HD3	46:OL:297:LYS:NZ	2.35	0.42
46:ON:235:GLY:HA2	46:ON:238:CYS:SG	2.60	0.42
45:PA:88:HIS:CE1	45:PA:90:GLU:HG2	2.55	0.42
45:PA:171:ILE:HD13	47:PA:501:GTP:N2	2.34	0.42
45:PA:340:THR:HG23	45:PA:341:ILE:HG13	2.00	0.42
45:PA:401:LYS:HB2	45:PA:401:LYS:HE3	1.83	0.42
45:PC:208:ALA:O	45:PC:212:ILE:HG12	2.19	0.42
46:PD:45:GLU:C	46:PD:46:ARG:HD2	2.44	0.42
46:PD:163:ILE:HD11	46:PD:251:ARG:NH1	2.34	0.42
45:PE:73:THR:OG1	46:PF:247:ASN:ND2	2.53	0.42
45:PG:11:GLN:NE2	47:PG:501:GTP:O1A	2.52	0.42
46:PH:20:PHE:O	46:PH:24:ILE:HG12	2.20	0.42
46:PH:325:GLU:O	46:PH:329:GLN:HG3	2.20	0.42
45:PK:332:ILE:HA	45:PK:335:ILE:HG22	2.01	0.42
45:QA:141:VAL:HG11	45:QA:172:TYR:HA	2.01	0.42
45:QC:184:PRO:O	45:QC:188:ILE:HD12	2.19	0.42
46:QD:105:HIS:CD2	46:QD:150:LEU:HB2	2.55	0.42
45:QE:4:VAL:HG12	45:QE:133:GLN:HB2	2.01	0.42
46:QF:183:TYR:HE2	46:QF:394:PHE:HB2	1.84	0.42
45:QG:265:ILE:HG12	45:QG:432:TYR:CE1	2.54	0.42
46:QH:7:ILE:HB	46:QH:135:ILE:CD1	2.50	0.42
46:QH:242:PHE:HB2	46:QH:354:CYS:SG	2.60	0.42
46:QH:266:PHE:CE1	46:QH:370:ASN:HB2	2.55	0.42
46:QH:312:THR:HG22	46:QH:370:ASN:HB3	2.02	0.42
45:QI:98:ASP:OD1	45:QI:99:ALA:N	2.53	0.42
45:QI:188:ILE:HG23	45:QI:425:LEU:HD11	2.01	0.42
45:QK:136:LEU:HD12	45:QK:169:PHE:CE2	2.54	0.42
46:QL:42:LEU:HA	46:QL:45:GLU:CD	2.45	0.42
46:QL:183:TYR:HE2	46:QL:394:PHE:HB2	1.85	0.42
46:QL:409:THR:O	46:QL:412:GLU:HG3	2.19	0.42
45:QM:88:HIS:NE2	45:QM:90:GLU:HG2	2.34	0.42
45:RA:208:ALA:O	45:RA:212:ILE:HG12	2.20	0.42
45:RA:223:THR:HG23	45:RA:225:THR:H	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RB:5:VAL:HA	46:RB:62:ARG:HG3	2.01	0.42
45:RC:68:LEU:HD21	45:RC:118:CYS:HB2	2.02	0.42
45:RC:105:ARG:HG2	45:RC:411:GLU:HG2	2.02	0.42
45:RE:408:TYR:HB3	45:RE:413:MET:SD	2.59	0.42
46:RJ:183:TYR:HA	46:RJ:385:PHE:CE1	2.53	0.42
46:RJ:274:THR:HB	46:RJ:282:ARG:CZ	2.49	0.42
45:RK:262:TYR:OH	46:RL:391:ARG:O	2.36	0.42
46:RL:122:LYS:NZ	46:SL:291:GLN:OE1	2.40	0.42
46:RL:288:GLU:O	46:RL:291:GLN:HG3	2.19	0.42
46:RL:314:SER:OG	46:RL:350:LYS:HB3	2.20	0.42
45:RM:108:TYR:CE2	45:RM:413:MET:HG2	2.47	0.42
46:SD:215:LEU:HD21	46:SD:273:LEU:HD12	2.00	0.42
46:SF:190:HIS:CE1	46:SF:414:ASN:HD22	2.37	0.42
45:SG:402:ARG:O	45:SG:402:ARG:HG3	2.19	0.42
46:SH:187:LEU:HD11	46:SH:408:PHE:CD1	2.55	0.42
46:SJ:405:GLU:HA	46:SJ:408:PHE:HD2	1.84	0.42
46:SN:66:MET:HG3	46:SN:147:MET:HE3	2.00	0.42
46:TB:253:LEU:HA	46:TB:350:LYS:NZ	2.35	0.42
46:TD:267:MET:HG3	46:TD:299:MET:HE2	2.02	0.42
45:TE:60:LYS:HE2	45:UE:283:HIS:HD2	1.83	0.42
45:TE:345:ASP:HB2	45:TE:438:GLU:HG3	2.00	0.42
46:TF:31:ASP:OD1	46:TF:34:GLY:N	2.53	0.42
46:TJ:258:ILE:HB	45:TK:407:TRP:CZ2	2.54	0.42
45:TK:233:GLN:HE21	45:TK:368:LEU:HD22	1.84	0.42
46:UD:97:ALA:HB3	46:UD:143:THR:HB	2.02	0.42
46:UD:322:SER:H	45:UE:221:ARG:NH2	2.18	0.42
46:UD:387:ALA:O	46:UD:390:ARG:HG2	2.20	0.42
45:UE:203:MET:HB3	45:UE:269:LEU:HD23	2.02	0.42
45:UE:370:LYS:HB2	45:UE:370:LYS:HE3	1.78	0.42
45:UG:251:ASP:HB3	45:UG:253:THR:HG22	2.01	0.42
46:UJ:9:GLY:HA3	46:UJ:66:MET:SD	2.59	0.42
45:UK:27:GLU:HB2	45:UK:361:THR:HG21	2.01	0.42
46:UL:226:ASN:ND2	49:UL:501:GDP:HN1	2.10	0.42
46:UN:175:VAL:HG22	46:UN:205:GLU:OE2	2.19	0.42
45:VA:326:LYS:HB2	46:VD:212:PHE:CZ	2.53	0.42
46:VB:287:PRO:HA	46:VB:290:THR:HG22	2.00	0.42
45:VC:149:LEU:O	45:VC:153:LEU:HD23	2.20	0.42
46:VD:183:TYR:O	46:VD:187:LEU:HD23	2.20	0.42
46:VF:67:ASP:OD1	46:VF:68:LEU:N	2.52	0.42
46:VF:293:MET:HG2	46:VF:365:VAL:HG11	2.00	0.42
46:VF:395:LEU:O	46:VF:399:THR:HG23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VG:254:GLU:OE2	46:VJ:98:GLY:HA2	2.20	0.42
45:VG:324:VAL:HG11	45:VG:326:LYS:HE3	2.01	0.42
46:VH:161:ASP:OD1	46:VH:162:ARG:HG2	2.20	0.42
45:VI:224:TYR:HD1	45:VI:227:LEU:HD12	1.83	0.42
45:VK:174:SER:HB2	45:VK:177:VAL:O	2.20	0.42
45:VK:175:PRO:HA	45:VK:390:ARG:CZ	2.49	0.42
45:VK:329:ASN:HA	45:VK:332:ILE:HG12	2.01	0.42
46:VL:238:CYS:SG	46:VL:241:ARG:NH2	2.93	0.42
46:VL:277:GLY:O	46:VL:280:GLN:NE2	2.52	0.42
45:VM:88:HIS:ND1	45:VM:89:PRO:HD2	2.35	0.42
45:VM:105:ARG:NH1	46:VN:251:ARG:HD3	2.35	0.42
46:VN:150:LEU:HG	46:VN:154:LYS:HZ3	1.84	0.42
45:WC:420:GLU:HA	45:WC:423:GLU:CD	2.44	0.42
46:WF:232:ALA:HB1	46:WF:268:ILE:HD12	2.02	0.42
46:WF:386:THR:O	46:WF:390:ARG:HG2	2.20	0.42
45:WG:84:ARG:NH1	45:WG:85:GLN:OE1	2.52	0.42
45:WG:345:ASP:OD1	45:WG:346:TRP:N	2.52	0.42
45:WI:51:THR:HG23	45:WI:52:PHE:CD2	2.54	0.42
45:WI:398:MET:CE	46:WJ:346:PRO:HD2	2.46	0.42
45:WK:118:CYS:SG	45:WK:153:LEU:HD11	2.60	0.42
45:DC:166:LYS:O	45:DC:167:LEU:HD23	2.20	0.42
1:0A:50:PRO:HA	46:MB:41:ASP:OD2	2.18	0.42
2:0B:172:THR:HG23	2:0B:175:GLN:H	1.83	0.42
13:0U:419:ARG:HH22	13:0U:478:LEU:HD21	1.83	0.42
1:1A:134:LYS:NZ	1:1A:138:TRP:CG	2.87	0.42
16:1B:346:PHE:CD2	16:1B:348:ASN:HB2	2.54	0.42
4:1D:45:ILE:N	4:1D:46:PRO:HD3	2.35	0.42
4:1D:58:TYR:HA	4:1D:61:ILE:HG12	2.02	0.42
4:1D:65:ILE:HA	4:1D:70:GLN:OE1	2.19	0.42
4:1D:131:GLN:CD	4:1D:135:LYS:HE2	2.44	0.42
4:1D:224:ARG:NH1	34:4R:493:GLY:HA3	2.34	0.42
5:1E:68:HIS:NE2	5:1E:78:THR:HG22	2.35	0.42
7:1G:52:LYS:HG2	7:1G:57:ASN:ND2	2.35	0.42
7:1G:132:ARG:NH2	45:JA:82:THR:HA	2.26	0.42
8:1H:246:LYS:O	8:1H:249:ILE:HG22	2.20	0.42
19:1J:217:GLU:HG3	19:1J:224:PRO:CG	2.50	0.42
19:1J:384:LYS:HG2	19:1J:385:ILE:N	2.34	0.42
20:1K:123:LYS:O	20:1K:126:GLU:HG3	2.19	0.42
20:1K:123:LYS:HA	20:1K:126:GLU:HG3	2.01	0.42
21:1L:287:ARG:HH22	21:1L:355:LYS:NZ	2.18	0.42
21:1L:357:ILE:HD11	34:4R:101:GLU:C	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:1L:390:GLN:O	21:1L:394:LEU:HD23	2.19	0.42
21:1L:428:GLN:C	21:1L:430:LEU:N	2.78	0.42
23:1O:249:LYS:HZ2	46:UB:276:ARG:HE	1.67	0.42
10:1Q:15:TYR:CZ	10:1Q:17:ILE:HG22	2.54	0.42
12:1T:74:ILE:HG22	12:1T:106:ILE:HD13	2.02	0.42
14:1V:122:LYS:HD3	46:LL:390:ARG:HH11	1.84	0.42
14:1V:124:LEU:HD12	46:LL:409:THR:HG21	2.02	0.42
14:1V:247:GLU:O	14:1V:251:LEU:HD23	2.20	0.42
26:1W:63:LEU:HD12	26:1W:63:LEU:HA	1.89	0.42
27:2C:36:ARG:HG2	27:2C:92:LEU:HD13	2.01	0.42
4:2D:81:ARG:CZ	46:EJ:357:PRO:HD2	2.50	0.42
21:2L:362:LEU:HD21	34:6R:179:ARG:HH12	1.85	0.42
22:2M:27:TYR:HD2	22:2M:34:ILE:HG22	1.85	0.42
22:2M:112:GLU:OE2	22:2M:248:ASN:HB3	2.20	0.42
23:2O:297:ALA:HA	23:2O:300:GLU:CD	2.45	0.42
23:2O:450:LYS:HE3	23:2O:451:LYS:NZ	2.32	0.42
12:2T:55:LYS:HE2	12:2T:55:LYS:HA	2.01	0.42
13:2U:42:HIS:HE1	13:2U:44:ILE:HB	1.85	0.42
13:2U:69:TYR:CZ	13:2U:134:VAL:HG21	2.55	0.42
13:2U:163:ILE:HD11	13:2U:170:VAL:HG13	2.02	0.42
13:2U:478:LEU:HD23	13:2U:478:LEU:O	2.20	0.42
15:2X:3:ARG:H	46:ML:75:SER:HB2	1.84	0.42
27:3C:254:MET:O	27:3C:258:LEU:HD23	2.20	0.42
5:3E:50:ILE:HG12	34:6R:382:TYR:CD1	2.54	0.42
21:3L:145:GLN:OE1	21:3L:148:ARG:NH2	2.52	0.42
25:3R:11:PHE:HA	15:3X:81:ARG:NE	2.35	0.42
12:3T:214:ASN:C	12:3T:216:LYS:H	2.26	0.42
13:3U:21:LEU:HD22	13:3U:302:ILE:HD12	2.01	0.42
13:3U:456:GLN:OE1	13:3U:496:VAL:HG23	2.19	0.42
27:4C:216:THR:O	27:4C:220:LYS:HG2	2.20	0.42
35:4S:184:ARG:NH2	46:AD:414:ASN:HD21	2.18	0.42
37:5F:77:LYS:O	37:5F:81:MET:HG3	2.19	0.42
37:5G:168:LEU:HB3	37:5G:170:LYS:HZ3	1.83	0.42
10:5Q:72:LYS:O	10:5Q:72:LYS:HG2	2.19	0.42
10:5Q:85:LYS:O	10:5Q:107:ASN:ND2	2.52	0.42
34:5R:288:LYS:HB2	34:5R:288:LYS:HE3	1.74	0.42
41:6H:286:GLU:OE2	46:FH:227:HIS:CD2	2.73	0.42
41:6H:377:LYS:O	41:6H:377:LYS:HG3	2.20	0.42
34:7R:85:TRP:CZ2	45:AA:372:MET:HE1	2.54	0.42
34:7R:302:LEU:H	46:CB:77:ARG:NH2	2.16	0.42
34:7R:318:TYR:HB3	34:7R:321:MET:CG	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AA:352:LYS:HD2	45:AA:352:LYS:HA	1.94	0.42
46:AB:31:ASP:OD2	46:AB:37:HIS:ND1	2.52	0.42
45:AC:71:GLU:HA	45:AC:72:PRO:HD3	1.89	0.42
45:AE:60:LYS:HE3	45:BE:283:HIS:ND1	2.35	0.42
45:AE:425:LEU:HD23	45:AE:425:LEU:HA	1.85	0.42
46:AF:143:THR:O	46:AF:147:MET:HB2	2.20	0.42
46:AF:363:MET:HE3	46:AF:363:MET:HB2	1.74	0.42
45:AG:328:VAL:O	45:AG:332:ILE:HG12	2.20	0.42
45:AI:98:ASP:O	45:AI:105:ARG:NH1	2.52	0.42
46:AL:41:ASP:OD1	46:AL:42:LEU:HD12	2.20	0.42
46:AN:342:VAL:HG22	46:AN:344:TRP:CD1	2.55	0.42
46:AN:360:GLY:O	46:AN:361:LEU:HD22	2.20	0.42
45:BA:121:ARG:HA	45:BA:124:LYS:HG2	2.02	0.42
46:BB:287:PRO:HA	46:BB:290:THR:HG22	2.01	0.42
46:BF:105:HIS:CE1	46:BF:150:LEU:HD12	2.54	0.42
45:BG:317:MET:HE1	45:BG:351:PHE:HD2	1.84	0.42
46:BH:293:MET:CE	46:BH:365:VAL:HG11	2.50	0.42
45:BI:222:PRO:HG2	46:BJ:324:LYS:CE	2.45	0.42
45:BI:390:ARG:HG3	45:BI:391:LEU:HD22	2.02	0.42
46:BJ:293:MET:HG3	46:BJ:367:PHE:HB2	2.00	0.42
45:BK:22:GLU:HG3	45:BK:83:TYR:CZ	2.54	0.42
45:CA:141:VAL:HG22	45:CA:187:SER:HA	2.02	0.42
45:CC:296:PHE:CE2	45:CC:335:ILE:HG21	2.54	0.42
46:CF:134:GLN:HA	46:CF:165:GLU:O	2.18	0.42
46:CF:267:MET:HE3	46:CF:299:MET:HE2	2.01	0.42
45:CG:174:SER:OG	45:CG:206:ASN:OD1	2.37	0.42
45:CG:319:TYR:HB3	45:CG:323:VAL:HG11	2.00	0.42
45:CG:408:TYR:O	45:CG:413:MET:HB2	2.20	0.42
45:CI:97:GLU:HG2	45:CI:105:ARG:HH22	1.84	0.42
45:CI:377:MET:SD	45:CI:379:SER:HB3	2.59	0.42
46:CJ:256:ASN:ND2	46:CJ:350:LYS:HD2	2.31	0.42
46:CL:317:PHE:HB2	46:CL:353:ILE:HD13	2.00	0.42
46:CN:312:THR:HG22	46:CN:370:ASN:HB3	2.01	0.42
45:DA:176:GLN:OE1	45:DA:304:LYS:NZ	2.52	0.42
46:DB:72:THR:HG23	46:DB:73:MET:SD	2.60	0.42
46:DB:133:PHE:CE2	46:DB:155:VAL:HG21	2.55	0.42
46:DD:282:ARG:HH11	46:DD:282:ARG:HG2	1.83	0.42
46:DF:300:MET:HE2	46:DF:300:MET:HB2	1.79	0.42
45:DG:109:THR:HB	45:DG:110:ILE:HD12	2.02	0.42
45:DI:223:THR:HG23	45:DI:225:THR:H	1.84	0.42
46:DJ:36:TYR:CZ	46:DJ:44:LEU:HD11	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DJ:317:PHE:CE1	46:DJ:365:VAL:HG22	2.55	0.42
45:DM:27:GLU:OE1	45:DM:243:ARG:NH2	2.48	0.42
45:DM:311:LYS:NZ	45:DM:343:PHE:O	2.53	0.42
46:EB:342:VAL:HG22	46:EB:344:TRP:H	1.85	0.42
45:EE:268:MET:HB2	45:EE:379:SER:O	2.20	0.42
45:EE:422:ARG:O	45:EE:425:LEU:HG	2.19	0.42
45:EG:242:LEU:HD11	45:EG:252:ILE:HG12	2.02	0.42
45:EI:201:ALA:HB3	45:EI:267:PHE:CD1	2.55	0.42
45:EI:284:GLU:OE1	45:EI:286:LEU:HD22	2.20	0.42
45:EI:408:TYR:HB3	45:EI:413:MET:HE3	2.01	0.42
46:EJ:91:VAL:HG21	46:EJ:116:VAL:HB	2.02	0.42
46:EJ:380:ARG:HE	46:EJ:380:ARG:HB3	1.63	0.42
46:EL:19:LYS:HA	46:EL:22:GLU:OE2	2.19	0.42
46:EL:20:PHE:CZ	46:EL:233:MET:HE2	2.55	0.42
46:EL:161:ASP:OD2	46:EL:162:ARG:NH2	2.52	0.42
46:EL:174:LYS:HE2	46:EL:205:GLU:OE2	2.19	0.42
46:EL:213:ARG:HB2	46:EL:213:ARG:NH1	2.34	0.42
45:FA:407:TRP:CZ3	46:FB:255:VAL:HA	2.55	0.42
45:FC:422:ARG:CZ	45:FC:422:ARG:HB3	2.48	0.42
45:FE:196:GLU:OE1	45:FE:196:GLU:N	2.52	0.42
46:FF:268:ILE:HG22	46:FF:368:VAL:HG22	2.00	0.42
45:FG:216:ASN:HB3	45:FG:275:ILE:O	2.19	0.42
45:FK:56:THR:HG23	45:FK:58:ALA:H	1.84	0.42
45:FK:133:GLN:O	45:FK:164:LYS:HE3	2.19	0.42
45:FM:194:LEU:HB2	45:FM:198:THR:OG1	2.19	0.42
46:FN:114:ASP:OD1	46:FN:115:SER:N	2.53	0.42
46:FN:268:ILE:HG13	46:FN:300:MET:SD	2.59	0.42
46:FN:344:TRP:HB3	46:FN:430:ALA:HB2	2.02	0.42
45:GA:79:ARG:O	45:GA:84:ARG:HG2	2.20	0.42
45:GC:150:GLY:O	45:GC:154:LEU:HD23	2.19	0.42
45:GC:176:GLN:N	45:GC:176:GLN:OE1	2.52	0.42
45:GG:175:PRO:HG3	45:GG:390:ARG:HH21	1.85	0.42
45:GG:178:SER:HB2	45:GG:183:GLU:OE2	2.19	0.42
46:GH:207:LEU:HD13	46:GH:225:LEU:HD22	2.02	0.42
46:GN:148:GLY:O	46:GN:152:ILE:HG12	2.19	0.42
45:HA:175:PRO:O	45:HA:394:LYS:NZ	2.34	0.42
45:HA:254:GLU:C	45:HA:255:PHE:HD2	2.28	0.42
45:HC:346:TRP:CD1	46:HF:391:ARG:HG3	2.55	0.42
45:HI:284:GLU:N	45:HI:284:GLU:OE1	2.53	0.42
45:HI:287:SER:O	45:HI:290:GLU:HG2	2.20	0.42
46:HJ:66:MET:HE2	46:HJ:66:MET:HB2	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HK:71:GLU:CD	46:HL:247:ASN:HD21	2.25	0.42
46:HL:336:LYS:HD3	46:HL:336:LYS:HA	1.84	0.42
46:ID:268:ILE:HG22	46:ID:368:VAL:HG22	2.01	0.42
46:IF:405:GLU:H	46:IF:405:GLU:CD	2.28	0.42
46:IH:66:MET:SD	46:IH:147:MET:HE3	2.60	0.42
46:IJ:11:GLN:O	46:IJ:15:GLN:HG2	2.19	0.42
45:IK:52:PHE:CZ	45:IK:239:THR:HG21	2.54	0.42
45:IK:407:TRP:CZ3	46:IL:255:VAL:HA	2.54	0.42
46:IL:345:ILE:O	46:IL:345:ILE:HG23	2.19	0.42
45:IM:34:GLY:C	45:IM:60:LYS:HA	2.45	0.42
45:JC:68:LEU:HD23	45:JC:93:ILE:HB	2.02	0.42
46:JF:327:ASP:HA	46:JF:330:MET:HE2	2.02	0.42
45:JG:28:HIS:HE1	45:JG:243:ARG:HH11	1.67	0.42
45:JG:419:SER:O	45:JG:422:ARG:N	2.53	0.42
46:JJ:19:LYS:HG3	46:JJ:226:ASN:CB	2.49	0.42
45:JK:338:LYS:NZ	45:JK:338:LYS:HB2	2.35	0.42
45:JK:352:LYS:HD3	46:JN:178:THR:HA	2.00	0.42
45:JK:430:LYS:O	45:JK:433:GLU:HG3	2.20	0.42
46:JL:26:ASP:OD2	46:JL:359:LYS:HD2	2.19	0.42
46:JL:73:MET:CE	46:JL:92:PHE:HB3	2.50	0.42
45:JM:224:TYR:HD1	46:JN:323:THR:HG21	1.85	0.42
46:JN:68:LEU:HD12	46:JN:97:ALA:HB2	2.00	0.42
45:KA:166:LYS:O	45:KA:199:ASP:HB2	2.19	0.42
45:KA:220:GLU:OE1	45:KA:220:GLU:N	2.51	0.42
45:KA:320:ARG:HD3	45:KA:360:PRO:HG3	2.01	0.42
45:KA:417:GLU:O	45:KA:420:GLU:HG3	2.20	0.42
45:KG:433:GLU:OE2	45:KG:433:GLU:HA	2.19	0.42
45:KI:66:VAL:HG21	45:KI:122:ILE:HD11	2.02	0.42
45:KI:128:ASN:C	45:KI:128:ASN:ND2	2.67	0.42
45:KI:222:PRO:HD2	46:KJ:324:LYS:HG3	2.00	0.42
45:KI:411:GLU:OE2	45:KI:411:GLU:N	2.53	0.42
45:KM:361:THR:HA	45:KM:370:LYS:HZ1	1.84	0.42
45:KM:404:PHE:CD1	46:KN:259:PRO:HA	2.54	0.42
46:KN:257:LEU:HD23	46:KN:266:PHE:CZ	2.54	0.42
45:LA:172:TYR:OH	45:LA:191:THR:HB	2.19	0.42
45:LC:60:LYS:HE2	45:LC:60:LYS:HB3	1.86	0.42
45:LC:223:THR:HG22	45:LC:224:TYR:N	2.35	0.42
45:LC:231:ILE:O	45:LC:235:ILE:HG12	2.19	0.42
45:LC:288:VAL:HG11	45:LC:327:ASP:HB3	2.02	0.42
46:LH:156:ARG:NH2	46:LH:197:ASP:OD2	2.53	0.42
45:LI:328:VAL:O	45:LI:332:ILE:HG12	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LJ:95:THR:HG21	46:LJ:108:GLU:HG2	2.02	0.42
46:LJ:230:SER:HA	46:LJ:233:MET:HG2	2.02	0.42
45:LK:71:GLU:HA	45:LK:72:PRO:HD3	1.89	0.42
46:LL:323:THR:OG1	46:LL:324:LYS:NZ	2.53	0.42
45:LM:269:LEU:HG	45:LM:303:ALA:HB3	2.02	0.42
46:LN:190:HIS:O	46:LN:193:VAL:HG12	2.20	0.42
46:MH:258:ILE:HG13	46:MH:258:ILE:O	2.19	0.42
45:MI:224:TYR:CE2	46:MJ:246:LEU:HD11	2.54	0.42
46:MN:178:THR:N	46:MN:181:GLU:OE2	2.53	0.42
45:NA:70:LEU:HG	45:NA:149:LEU:HD11	2.00	0.42
46:NB:67:ASP:HA	46:NB:147:MET:HE1	2.01	0.42
45:NC:222:PRO:HD2	46:ND:324:LYS:NZ	2.35	0.42
46:ND:296:ALA:HB3	46:ND:306:ARG:HH21	1.84	0.42
45:NE:253:THR:HA	45:NE:256:GLN:HE22	1.83	0.42
46:NF:22:GLU:HG2	46:NF:81:PHE:HD1	1.84	0.42
46:NF:65:LEU:HD12	46:NF:90:PHE:CE1	2.54	0.42
46:NF:70:PRO:HG3	46:NF:92:PHE:CD1	2.55	0.42
46:NF:111:GLU:N	46:NF:111:GLU:OE1	2.52	0.42
46:NH:42:LEU:HA	46:NH:45:GLU:HG3	2.02	0.42
46:NL:204:ASN:OD1	46:NL:205:GLU:N	2.52	0.42
45:NM:28:HIS:CE1	45:NM:49:PHE:HB3	2.55	0.42
45:NM:103:PHE:H	45:NM:408:TYR:HE2	1.67	0.42
46:OB:164:MET:O	46:OB:197:ASP:HB2	2.20	0.42
46:OB:334:GLN:HE22	46:OB:347:ASN:N	2.17	0.42
46:OD:175:VAL:HG13	46:OD:205:GLU:OE2	2.19	0.42
46:OD:182:PRO:CG	46:OD:384:GLN:HG3	2.48	0.42
45:OE:420:GLU:O	45:OE:423:GLU:HG3	2.19	0.42
45:OG:317:MET:N	45:OG:317:MET:SD	2.92	0.42
46:OH:188:SER:O	46:OH:192:LEU:HD23	2.19	0.42
46:OH:409:THR:O	46:OH:412:GLU:HG3	2.20	0.42
46:OJ:31:ASP:OD2	46:OJ:37:HIS:CD2	2.73	0.42
46:OJ:325:GLU:HA	46:OJ:328:GLU:CD	2.45	0.42
46:OJ:391:ARG:HA	46:OJ:391:ARG:HD2	1.80	0.42
45:OK:88:HIS:HB3	45:OK:91:GLN:CG	2.50	0.42
45:OK:111:GLY:O	45:OK:115:VAL:HG13	2.20	0.42
45:OK:426:ALA:O	45:OK:429:GLU:HG3	2.19	0.42
46:OL:127:CYS:SG	46:OL:130:LEU:HB2	2.60	0.42
45:OM:224:TYR:HB2	46:ON:245:GLN:HE21	1.83	0.42
45:OM:224:TYR:CD2	46:ON:323:THR:HG21	2.54	0.42
46:ON:207:LEU:HD11	46:ON:228:LEU:HD11	2.02	0.42
45:PA:152:LEU:HD13	45:PA:155:GLU:OE2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PA:215:ARG:HG3	45:PA:216:ASN:OD1	2.20	0.42
45:PC:51:THR:O	45:PC:64:ARG:NH2	2.52	0.42
45:PC:258:ASN:OD1	45:PC:352:LYS:HE3	2.19	0.42
46:PD:153:SER:HB3	46:PD:154:LYS:NZ	2.35	0.42
46:PD:210:ILE:O	46:PD:214:THR:HG22	2.19	0.42
45:PE:18:ASN:O	45:PE:22:GLU:HG2	2.19	0.42
46:PF:164:MET:O	46:PF:197:ASP:HB2	2.19	0.42
45:PG:114:ILE:O	45:PG:117:LEU:HG	2.20	0.42
45:PG:268:MET:SD	45:PG:268:MET:N	2.93	0.42
46:PH:10:GLY:O	46:PH:14:ASN:ND2	2.53	0.42
46:PH:131:GLN:HE22	46:PH:163:ILE:HD11	1.85	0.42
46:PH:161:ASP:OD1	46:PH:162:ARG:HG2	2.20	0.42
46:PH:313:ALA:HB1	46:PH:367:PHE:HE1	1.85	0.42
45:PI:324:VAL:HB	45:PI:327:ASP:OD2	2.20	0.42
46:PN:97:ALA:HB3	46:PN:143:THR:HB	2.02	0.42
45:QC:70:LEU:HD13	45:QC:145:THR:OG1	2.20	0.42
45:QE:191:THR:HA	45:QE:194:LEU:HG	2.02	0.42
45:QE:317:MET:O	45:QE:318:MET:HE2	2.18	0.42
46:QF:8:GLN:NE2	46:QF:14:ASN:HA	2.34	0.42
46:QF:47:ILE:HD13	46:QF:59:TYR:CE2	2.54	0.42
45:QG:308:ARG:HG2	45:QG:308:ARG:NH1	2.34	0.42
45:QG:329:ASN:OD1	46:QH:175:VAL:HG23	2.19	0.42
46:QH:183:TYR:CZ	46:QH:388:MET:HE3	2.55	0.42
45:QI:47:ASP:HB3	45:QI:48:ALA:H	1.68	0.42
45:QI:290:GLU:N	45:QI:290:GLU:OE2	2.53	0.42
45:QI:296:PHE:HE1	45:QI:377:MET:HG3	1.85	0.42
45:QK:279:GLU:OE1	45:QK:280:LYS:HD3	2.20	0.42
46:QL:2:ARG:NH2	45:QM:72:PRO:HD3	2.34	0.42
46:RB:65:LEU:HD22	46:RB:90:PHE:CE1	2.54	0.42
45:RC:263:PRO:HD3	46:RD:396:HIS:CE1	2.54	0.42
45:RC:402:ARG:CZ	45:RC:405:VAL:HB	2.50	0.42
46:RD:228:LEU:HD11	46:RD:273:LEU:HD11	2.01	0.42
46:RD:322:SER:HB2	45:RE:222:PRO:O	2.20	0.42
45:RE:345:ASP:OD1	45:RE:346:TRP:N	2.53	0.42
45:RG:280:LYS:HA	45:RG:283:HIS:ND1	2.35	0.42
46:RH:252:LYS:HA	46:RH:255:VAL:HG12	2.00	0.42
46:RH:391:ARG:HA	46:RH:391:ARG:HD2	1.81	0.42
45:RI:31:GLN:HG3	45:RI:33:ASP:OD1	2.20	0.42
45:RI:209:ILE:HD12	45:RI:227:LEU:HD22	2.00	0.42
46:RL:108:GLU:O	46:RL:111:GLU:HG3	2.19	0.42
46:RL:268:ILE:HG22	46:RL:368:VAL:HG22	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RM:14:ILE:HD11	45:RM:69:ASP:HB2	2.02	0.42
46:RN:288:GLU:O	46:RN:291:GLN:HG3	2.19	0.42
45:SA:88:HIS:HB3	45:SA:91:GLN:HG2	2.02	0.42
45:SA:372:MET:HE2	45:SA:373:ARG:NH1	2.35	0.42
46:SB:65:LEU:HD22	46:SB:90:PHE:HE1	1.84	0.42
46:SB:97:ALA:HB3	46:SB:143:THR:HB	2.01	0.42
46:SB:200:MET:CE	46:SB:268:ILE:HD13	2.50	0.42
46:SB:318:ARG:HH11	46:SB:358:PRO:HG3	1.85	0.42
45:SC:226:ASN:HA	45:SC:229:ARG:HG2	2.00	0.42
45:SE:56:THR:HG23	45:SE:58:ALA:H	1.85	0.42
46:SF:113:ILE:HA	46:SF:116:VAL:HG12	2.02	0.42
46:SF:161:ASP:O	46:SF:251:ARG:NH2	2.51	0.42
45:SI:166:LYS:C	45:SI:167:LEU:HD12	2.45	0.42
45:SI:256:GLN:NE2	45:SI:257:THR:HG23	2.34	0.42
46:SJ:414:ASN:O	46:SJ:418:LEU:HD23	2.19	0.42
45:SK:2:ARG:HD3	45:SK:2:ARG:H	1.84	0.42
45:SK:75:ILE:O	45:SK:79:ARG:HG2	2.20	0.42
45:SK:434:GLU:O	45:SK:437:ILE:HG22	2.20	0.42
46:SL:46:ARG:HH21	45:SM:73:THR:HA	1.84	0.42
46:TB:288:GLU:O	46:TB:291:GLN:HG3	2.20	0.42
46:TB:345:ILE:HG23	46:TB:345:ILE:O	2.19	0.42
45:TC:171:ILE:HD11	47:TC:501:GTP:H1'	2.01	0.42
46:TF:136:THR:HG22	46:TF:167:PHE:HD2	1.85	0.42
45:TG:141:VAL:HG11	45:TG:172:TYR:CD1	2.55	0.42
45:TG:392:ASP:HA	45:TG:422:ARG:HH12	1.84	0.42
46:TH:180:VAL:HG22	46:TH:183:TYR:HB2	2.01	0.42
45:TI:206:ASN:OD1	47:TI:501:GTP:N2	2.47	0.42
45:TI:288:VAL:HA	45:TI:291:ILE:HG12	2.01	0.42
46:TJ:21:TRP:HA	46:TJ:24:ILE:HG12	2.02	0.42
45:TK:223:THR:HG23	45:TK:225:THR:H	1.85	0.42
45:TK:425:LEU:HA	45:TK:425:LEU:HD23	1.83	0.42
46:TL:379:LYS:HD3	46:TL:419:VAL:HG11	2.01	0.42
46:TL:394:PHE:HD2	46:TL:397:TRP:CZ3	2.37	0.42
45:UC:79:ARG:NH2	45:UC:92:LEU:HB2	2.35	0.42
45:UC:174:SER:HB2	45:UC:177:VAL:HB	2.02	0.42
45:UC:217:LEU:HD12	45:UC:367:ASP:HB3	2.02	0.42
45:UC:217:LEU:HD11	45:UC:368:LEU:HD22	2.01	0.42
46:UF:31:ASP:OD1	46:UF:35:THR:N	2.36	0.42
46:UF:330:MET:HE1	46:UF:349:ILE:HG22	2.00	0.42
46:UF:420:SER:O	46:UF:423:GLN:HG3	2.19	0.42
45:UG:111:GLY:O	45:UG:115:VAL:HG13	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UG:263:PRO:HG2	45:UG:264:ARG:NH1	2.34	0.42
46:UH:322:SER:HB2	45:UI:222:PRO:O	2.19	0.42
46:UJ:32:PRO:HG3	46:UJ:81:PHE:CZ	2.55	0.42
46:UL:74:ASP:HA	46:UL:77:ARG:HG2	2.02	0.42
46:UL:286:VAL:CG2	46:UL:287:PRO:HD3	2.50	0.42
46:VB:174:LYS:HB3	46:VB:205:GLU:CD	2.45	0.42
45:VC:178:SER:OG	46:VD:347:ASN:HB3	2.20	0.42
45:VG:223:THR:HB	46:VH:322:SER:HB3	2.01	0.42
45:VG:433:GLU:O	45:VG:437:ILE:HG12	2.20	0.42
45:VI:199:ASP:OD1	45:VI:200:VAL:HG23	2.20	0.42
46:VJ:22:GLU:OE2	46:VJ:80:PRO:HB2	2.20	0.42
45:VK:88:HIS:CD2	45:WK:280:LYS:HE2	2.55	0.42
45:VK:398:MET:HE1	46:VL:345:ILE:HD12	2.01	0.42
46:VN:384:GLN:O	46:VN:388:MET:HG2	2.20	0.42
45:WA:48:ALA:O	45:WA:51:THR:HG22	2.20	0.42
45:WA:263:PRO:HD3	46:WD:396:HIS:CE1	2.54	0.42
45:WA:284:GLU:CD	45:WA:286:LEU:H	2.28	0.42
45:WC:289:ALA:O	45:WC:292:THR:HG22	2.20	0.42
46:WF:222:TYR:O	46:WF:226:ASN:ND2	2.25	0.42
45:WG:214:ARG:HD2	45:WG:215:ARG:N	2.34	0.42
45:WK:262:TYR:OH	46:WN:391:ARG:O	2.30	0.42
45:WM:3:GLU:OE2	45:WM:129:CYS:HB3	2.19	0.42
46:WN:282:ARG:HH21	46:WN:284:LEU:HA	1.84	0.42
45:CE:10:GLY:O	45:CE:14:ILE:HG12	2.20	0.42
45:CE:90:GLU:OE2	45:CE:121:ARG:NH2	2.53	0.42
2:0B:46:PHE:CZ	46:JH:73:MET:HB3	2.55	0.42
5:0E:95:GLN:HE22	5:0E:182:GLU:HB2	1.84	0.42
5:0E:142:VAL:O	5:0E:146:PHE:HD1	2.02	0.42
10:0Q:85:LYS:HD3	10:0Q:85:LYS:HA	1.83	0.42
10:0Q:166:TYR:HE1	10:0Q:168:SER:HB2	1.85	0.42
12:0T:228:PRO:HG2	12:0T:231:GLU:OE1	2.20	0.42
13:0U:318:CYS:SG	13:0U:319:HIS:N	2.93	0.42
15:0X:66:GLU:N	15:0X:66:GLU:OE1	2.38	0.42
8:1H:227:GLN:NE2	8:1H:232:GLN:OE1	2.53	0.42
20:1K:129:LYS:O	20:1K:132:GLU:HG3	2.18	0.42
21:1L:97:LYS:HE2	21:1L:97:LYS:HA	2.02	0.42
21:1L:217:ASN:ND2	46:BJ:56:GLY:HA2	2.35	0.42
21:1L:378:ARG:O	21:1L:378:ARG:HG3	2.19	0.42
21:1L:825:GLU:HA	34:7R:100:GLN:NE2	2.35	0.42
22:1M:25:LEU:HD22	22:1M:36:MET:HG3	2.02	0.42
23:1O:96:GLN:HA	23:1O:99:LEU:HG	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:1R:244:ARG:HA	25:1R:244:ARG:HH11	1.84	0.42
11:1S:259:PHE:CB	11:1S:287:ILE:HD11	2.49	0.42
13:1U:69:TYR:CE2	13:1U:110:PHE:HE2	2.38	0.42
13:1U:193:LYS:HB2	46:WF:80:PRO:HD3	2.02	0.42
13:1U:292:HIS:HB3	13:1U:304:TRP:CE2	2.54	0.42
13:1U:320:TYR:CD2	13:1U:321:GLU:HG3	2.55	0.42
13:1U:348:ASN:ND2	13:1U:351:ASN:OD1	2.53	0.42
13:1U:458:LYS:HE3	13:1U:463:GLN:H	1.85	0.42
16:2B:180:GLU:OE1	16:2B:180:GLU:N	2.51	0.42
27:2C:158:HIS:HB3	27:2C:169:GLU:OE2	2.20	0.42
4:2D:179:LYS:HG3	4:2D:180:ARG:H	1.85	0.42
4:2D:201:ASP:O	4:2D:205:ILE:HG12	2.19	0.42
4:2D:216:GLN:OE1	34:5R:431:ILE:HD12	2.20	0.42
20:2K:281:LYS:O	20:2K:284:GLU:HG3	2.19	0.42
20:2K:402:ASP:OD1	20:2K:403:ILE:N	2.53	0.42
21:2L:433:LEU:HD21	21:2L:439:PHE:HA	2.01	0.42
22:2M:285:LYS:NZ	46:IJ:41:ASP:OD2	2.33	0.42
9:2N:45:THR:O	9:2N:49:ASP:HB2	2.20	0.42
23:2O:150:ALA:O	23:2O:154:THR:HG23	2.20	0.42
10:2Q:100:ARG:HB2	10:2Q:100:ARG:HH11	1.84	0.42
25:2R:410:TRP:HA	25:2R:442:ASN:HB2	2.02	0.42
11:2S:229:ILE:HG13	11:2S:230:MET:N	2.34	0.42
11:2S:291:LEU:HD23	11:2S:291:LEU:HA	1.87	0.42
12:2T:29:ASN:HB3	12:2T:32:TYR:CD1	2.54	0.42
12:2T:125:GLY:O	45:AG:337:THR:HG23	2.20	0.42
13:2U:397:LEU:HB3	13:2U:398:TYR:CD2	2.55	0.42
13:2U:496:VAL:C	13:2U:497:LEU:HD12	2.45	0.42
13:2U:527:MET:HE1	13:2U:565:GLY:HA2	2.01	0.42
14:2V:136:THR:O	14:2V:139:VAL:N	2.53	0.42
14:2V:204:GLU:HA	14:2V:207:GLN:OE1	2.19	0.42
15:2X:31:ASP:O	15:2X:32:LEU:HB2	2.19	0.42
27:3C:8:LEU:HD23	34:7R:4:ASN:HD22	1.85	0.42
27:3C:210:VAL:O	27:3C:213:ILE:HG22	2.20	0.42
32:3D:43:VAL:HG12	32:3D:120:THR:OG1	2.19	0.42
32:3D:58:ALA:HB1	32:3D:68:VAL:HG11	2.01	0.42
32:3D:223:ALA:HA	32:3D:226:LYS:HZ3	1.84	0.42
5:3E:27:LEU:HG	5:3E:31:PHE:HE2	1.85	0.42
21:3L:188:GLN:O	21:3L:192:LEU:HG	2.20	0.42
23:3O:468:SER:O	23:3O:472:GLU:HG2	2.19	0.42
25:3R:11:PHE:HD1	15:3X:81:ARG:CZ	2.33	0.42
25:3R:180:PHE:O	25:3R:183:LYS:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:3U:69:TYR:HB2	13:3U:87:TRP:O	2.20	0.42
13:3U:109:SER:O	13:3U:117:LEU:HD12	2.20	0.42
13:3U:109:SER:OG	13:3U:152:ILE:O	2.38	0.42
13:3U:316:ASN:OD1	13:3U:317:THR:N	2.52	0.42
14:3V:96:ASN:OD1	46:LB:261:PRO:HG2	2.20	0.42
27:4C:295:VAL:C	46:KN:320:ARG:HH22	2.27	0.42
36:5C:27:LYS:NZ	36:5C:31:SER:OG	2.53	0.42
36:5D:106:SER:C	36:5D:110:ARG:HE	2.28	0.42
40:6G:150:GLU:HB3	46:VH:336:LYS:HD3	2.02	0.42
40:6G:156:LYS:HA	40:6G:156:LYS:HD3	1.87	0.42
40:6G:281:THR:H	40:6G:284:LYS:HZ3	1.67	0.42
34:6R:26:HIS:HB3	45:LK:46:ASP:OD1	2.19	0.42
34:6R:311:LYS:HE3	34:6R:311:LYS:HB2	1.66	0.42
45:AA:420:GLU:HA	45:AA:423:GLU:OE2	2.19	0.42
45:AG:212:ILE:HD11	45:AG:300:ASN:HA	2.02	0.42
45:AG:434:GLU:O	45:AG:437:ILE:HG12	2.20	0.42
46:AH:376:GLU:HA	46:AH:379:LYS:HE3	2.02	0.42
45:AI:237:SER:HA	45:AI:320:ARG:HH11	1.84	0.42
46:AN:100:ASN:HB3	46:AN:103:LYS:HB2	2.02	0.42
45:BA:406:HIS:NE2	46:BB:261:PRO:HD3	2.35	0.42
45:BC:2:ARG:O	45:BC:51:THR:HA	2.20	0.42
45:BC:90:GLU:HG3	45:CC:280:LYS:HZ1	1.84	0.42
45:BC:192:HIS:HD2	45:BC:421:ALA:HA	1.85	0.42
46:BD:73:MET:HE3	46:BD:73:MET:HB3	1.93	0.42
46:BF:289:LEU:HD11	46:BF:363:MET:HB3	2.00	0.42
45:BG:188:ILE:HG12	45:BG:421:ALA:HB1	2.02	0.42
45:BI:340:THR:HG23	45:BI:341:ILE:HG13	2.01	0.42
45:BK:180:ALA:HA	46:BL:350:LYS:NZ	2.35	0.42
45:BK:336:LYS:HD3	45:BK:336:LYS:HA	1.77	0.42
45:BK:393:HIS:HA	45:BK:396:ASP:OD2	2.19	0.42
46:BL:28:HIS:C	46:BL:43:GLN:HE21	2.27	0.42
46:BL:226:ASN:ND2	49:BL:501:GDP:HN1	2.05	0.42
46:BN:109:GLY:O	46:BN:113:ILE:HG23	2.19	0.42
46:BN:287:PRO:HG3	46:BN:329:GLN:NE2	2.34	0.42
46:CB:8:GLN:HE21	46:CB:65:LEU:HA	1.83	0.42
46:CB:201:VAL:HG23	46:CB:301:CYS:SG	2.60	0.42
46:CB:396:HIS:HA	46:CB:399:THR:OG1	2.20	0.42
46:CF:19:LYS:HD3	46:CF:226:ASN:HB2	2.01	0.42
46:CF:167:PHE:CZ	46:CF:200:MET:HG3	2.55	0.42
45:CG:152:LEU:O	45:CG:155:GLU:HG2	2.20	0.42
45:CG:251:ASP:HB3	45:CG:254:GLU:OE1	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CL:145:SER:HB2	46:CL:188:SER:OG	2.19	0.42
46:CL:391:ARG:HD2	46:CL:391:ARG:HA	1.78	0.42
45:CM:48:ALA:O	45:CM:51:THR:HG22	2.19	0.42
45:CM:185:TYR:O	45:CM:188:ILE:HG22	2.19	0.42
45:CM:433:GLU:O	45:CM:437:ILE:HG23	2.20	0.42
45:DA:102:ASN:HB3	45:DA:105:ARG:HB2	2.02	0.42
46:DD:102:ALA:HB2	46:DD:403:MET:HE2	2.01	0.42
46:DD:254:ALA:O	46:DD:258:ILE:HG12	2.20	0.42
45:DE:188:ILE:HG23	45:DE:425:LEU:HD11	2.02	0.42
46:DH:113:ILE:HD11	46:DH:151:LEU:HB2	2.01	0.42
46:DH:350:LYS:NZ	46:DH:351:SER:O	2.51	0.42
46:DJ:116:VAL:HA	46:DJ:119:VAL:HG12	2.02	0.42
45:DK:75:ILE:HG23	45:DK:92:LEU:HD23	2.01	0.42
45:DK:141:VAL:HG11	45:DK:172:TYR:CD1	2.52	0.42
45:DK:152:LEU:O	45:DK:155:GLU:HG3	2.20	0.42
46:DL:146:GLY:O	46:DL:149:THR:HG22	2.19	0.42
46:DL:183:TYR:CE2	46:DL:388:MET:HE2	2.55	0.42
45:DM:107:HIS:ND1	45:DM:107:HIS:O	2.53	0.42
46:ED:345:ILE:HG23	46:ED:345:ILE:O	2.20	0.42
45:EG:413:MET:HE2	45:EG:413:MET:HB3	1.86	0.42
46:EH:12:CYS:O	46:EH:16:ILE:HG12	2.20	0.42
45:EI:287:SER:O	45:EI:290:GLU:HG2	2.20	0.42
46:EL:69:GLU:HA	46:EL:70:PRO:HD3	1.89	0.42
45:EM:56:THR:HG23	45:EM:58:ALA:H	1.83	0.42
46:EN:288:GLU:O	46:EN:291:GLN:HG3	2.19	0.42
45:FA:133:GLN:HB3	45:FA:252:ILE:HD11	2.02	0.42
45:FA:224:TYR:CE2	46:FB:323:THR:HG21	2.54	0.42
46:FB:267:MET:HB2	46:FB:299:MET:SD	2.59	0.42
45:FC:68:LEU:HD13	45:FC:93:ILE:HB	2.02	0.42
45:FC:291:ILE:HG13	45:FC:292:THR:N	2.34	0.42
46:FD:270:PHE:HD2	46:FD:273:LEU:HD21	1.84	0.42
45:FE:97:GLU:HA	45:FE:97:GLU:OE2	2.20	0.42
45:FE:340:THR:HG23	45:FE:341:ILE:HG13	2.01	0.42
45:FI:63:PRO:HG2	45:FI:87:PHE:CD2	2.54	0.42
46:FJ:77:ARG:HE	46:FJ:77:ARG:HB3	1.71	0.42
45:FK:195:LEU:CD2	45:FK:428:LEU:HD21	2.50	0.42
46:FL:416:ASN:OD1	46:FL:417:ASP:N	2.53	0.42
46:FN:318:ARG:HH11	46:FN:358:PRO:HG3	1.84	0.42
46:FN:378:PHE:HA	46:FN:381:VAL:HG22	2.01	0.42
46:GD:164:MET:SD	46:GD:196:ALA:HA	2.60	0.42
46:GF:122:LYS:C	46:GF:122:LYS:HD2	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GG:171:ILE:O	45:GG:171:ILE:HG23	2.20	0.42
45:GG:221:ARG:HH21	46:GH:320:ARG:HH22	1.68	0.42
45:GI:205:ASP:CG	45:GI:304:LYS:H	2.26	0.42
46:GJ:135:ILE:HG13	46:GJ:152:ILE:HD11	2.02	0.42
46:GJ:218:THR:OG1	46:GJ:219:THR:HG23	2.20	0.42
46:GL:97:ALA:HB3	46:GL:143:THR:HB	2.02	0.42
45:GM:19:ALA:HA	45:GM:22:GLU:OE1	2.19	0.42
45:HA:100:ALA:HB1	46:HB:252:LYS:HA	2.01	0.42
46:HB:237:THR:HG23	46:HB:241:ARG:HH12	1.85	0.42
45:HC:53:PHE:CE2	45:HC:63:PRO:HG3	2.55	0.42
46:HD:378:PHE:HA	46:HD:381:VAL:HG12	2.02	0.42
45:HE:234:VAL:HG21	45:HE:302:MET:HE2	2.02	0.42
45:HE:415:GLU:HG2	45:HE:416:GLY:N	2.34	0.42
46:HF:136:THR:HG22	46:HF:167:PHE:CD1	2.55	0.42
45:HI:336:LYS:HD3	45:HI:336:LYS:HA	1.88	0.42
46:HL:325:GLU:HA	46:HL:328:GLU:HG3	2.01	0.42
46:HN:201:VAL:HG23	46:HN:301:CYS:SG	2.60	0.42
46:IB:19:LYS:O	46:IB:23:VAL:HG23	2.20	0.42
45:IE:175:PRO:HG3	45:IE:390:ARG:NH1	2.34	0.42
45:IE:224:TYR:HE1	47:IE:501:GTP:C5	2.38	0.42
45:IG:222:PRO:HD2	46:IH:324:LYS:HD3	2.02	0.42
46:IJ:9:GLY:HA2	46:IJ:66:MET:O	2.20	0.42
45:IK:148:GLY:O	45:IK:151:SER:OG	2.34	0.42
46:IN:69:GLU:HA	46:IN:70:PRO:HD3	1.87	0.42
46:IN:201:VAL:HG21	46:IN:374:ILE:HD11	2.01	0.42
45:JC:313:MET:HG2	45:JC:346:TRP:CH2	2.55	0.42
46:JD:67:ASP:HB3	46:JD:73:MET:HE3	2.01	0.42
46:JD:68:LEU:HB3	46:JD:96:GLY:HA2	2.01	0.42
46:JD:136:THR:HG22	46:JD:167:PHE:HD2	1.85	0.42
45:JE:200:VAL:HG13	45:JE:268:MET:HE3	2.02	0.42
45:JG:10:GLY:O	45:JG:14:ILE:HG12	2.19	0.42
46:JH:21:TRP:CZ3	46:JH:61:PRO:HB3	2.55	0.42
46:JH:183:TYR:O	46:JH:187:LEU:HD13	2.20	0.42
46:JH:257:LEU:O	46:JH:259:PRO:HD3	2.20	0.42
45:JI:195:LEU:HD21	45:JI:264:ARG:HH21	1.85	0.42
46:JJ:177:ASP:OD2	46:JJ:178:THR:N	2.53	0.42
46:JJ:310:TYR:CD2	46:JJ:371:SER:HB2	2.55	0.42
45:JK:38:SER:OG	45:JK:39:ASP:N	2.50	0.42
45:JK:174:SER:HB2	45:JK:177:VAL:O	2.20	0.42
46:JL:149:THR:HA	46:JL:152:ILE:HD12	2.01	0.42
45:JM:51:THR:C	45:JM:52:PHE:HD2	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JM:122:ILE:HG23	45:JM:123:ARG:NH1	2.35	0.42
46:JN:294:PHE:HE2	46:JN:367:PHE:CE1	2.38	0.42
46:KB:23:VAL:O	46:KB:27:GLU:OE1	2.38	0.42
46:KB:233:MET:O	46:KB:236:VAL:HG12	2.20	0.42
45:KC:330:ALA:O	45:KC:334:THR:HG23	2.20	0.42
45:KC:408:TYR:HB3	45:KC:413:MET:HE2	2.02	0.42
46:KF:139:LEU:HD13	46:KF:168:SER:HB3	2.02	0.42
45:KI:279:GLU:OE2	45:KI:280:LYS:HG2	2.20	0.42
45:KK:284:GLU:CD	45:KK:286:LEU:H	2.28	0.42
45:KK:350:GLY:HA2	46:KN:179:VAL:HG12	2.01	0.42
45:KM:52:PHE:CZ	45:KM:239:THR:HG21	2.55	0.42
46:KN:21:TRP:HA	46:KN:24:ILE:HG22	2.02	0.42
46:LB:65:LEU:HD22	46:LB:90:PHE:HE1	1.85	0.42
46:LB:293:MET:HE3	46:LB:293:MET:HB3	1.89	0.42
46:LB:391:ARG:HA	46:LB:391:ARG:HD2	1.84	0.42
45:LE:178:SER:HB3	45:LE:183:GLU:OE1	2.20	0.42
45:LE:414:GLU:O	45:LE:417:GLU:HG2	2.20	0.42
45:LG:21:TRP:CZ2	45:LG:65:ALA:HB2	2.55	0.42
46:LH:265:PHE:HB3	46:LH:374:ILE:HD13	2.01	0.42
46:LH:286:VAL:N	46:LH:287:PRO:HD2	2.34	0.42
45:LI:71:GLU:HA	45:LI:72:PRO:HD3	1.83	0.42
46:LJ:267:MET:HE1	46:LJ:305:PRO:HD3	2.01	0.42
45:LK:26:LEU:HD11	45:LK:364:PRO:HD2	2.01	0.42
45:LK:183:GLU:N	45:LK:184:PRO:HD2	2.35	0.42
45:LK:408:TYR:HB3	45:LK:413:MET:HE2	2.01	0.42
46:LL:375:GLN:HG3	46:LL:379:LYS:NZ	2.35	0.42
46:MB:1:MET:HG3	46:MB:2:ARG:N	2.35	0.42
45:MC:384:ILE:O	45:MC:387:VAL:HG22	2.20	0.42
45:ME:401:LYS:HE2	46:MF:344:TRP:CG	2.54	0.42
45:MG:331:SER:O	45:MG:335:ILE:HG12	2.20	0.42
46:MJ:1:MET:O	46:MJ:2:ARG:HG2	2.20	0.42
45:MK:194:LEU:O	45:MK:198:THR:HG22	2.19	0.42
45:MK:384:ILE:O	45:MK:387:VAL:HG22	2.20	0.42
45:MM:68:LEU:HD11	45:MM:118:CYS:SG	2.60	0.42
45:MM:70:LEU:HD13	45:MM:145:THR:OG1	2.20	0.42
46:MN:221:THR:O	46:MN:225:LEU:HG	2.20	0.42
46:NB:165:GLU:HG2	46:NB:198:GLU:HB2	2.02	0.42
45:NE:107:HIS:ND1	45:NE:107:HIS:O	2.52	0.42
45:NE:174:SER:HB2	45:NE:177:VAL:O	2.19	0.42
45:NE:306:ASP:HB3	45:NE:309:HIS:ND1	2.35	0.42
46:NF:238:CYS:SG	46:NF:318:ARG:NE	2.92	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:NF:289:LEU:HD11	46:NF:363:MET:HG3	2.01	0.42
45:NG:338:LYS:HD2	45:NG:339:ARG:H	1.84	0.42
45:NK:164:LYS:HD3	45:NK:164:LYS:HA	1.83	0.42
45:NM:112:LYS:HA	45:NM:115:VAL:HG12	2.02	0.42
45:NM:320:ARG:CG	45:NM:374:ALA:HB3	2.50	0.42
46:NN:100:ASN:HB3	46:NN:103:LYS:CG	2.50	0.42
45:OA:348:PRO:HG2	46:OD:384:GLN:NE2	2.33	0.42
45:OC:8:HIS:CD2	45:OC:138:PHE:HD2	2.36	0.42
45:OC:52:PHE:HA	45:OC:64:ARG:HD2	2.01	0.42
45:OC:205:ASP:OD1	45:OC:303:ALA:HA	2.20	0.42
46:OD:31:ASP:OD2	46:OD:35:THR:OG1	2.37	0.42
46:OD:321:MET:HB2	46:OD:325:GLU:OE2	2.20	0.42
45:OE:143:GLY:HA3	47:OF:501:GTP:O2B	2.20	0.42
45:OE:285:GLN:HB3	45:OE:290:GLU:OE2	2.19	0.42
46:OF:54:ALA:HA	46:PF:283:ALA:HB2	2.02	0.42
46:OF:152:ILE:HG23	46:OF:164:MET:HE2	2.01	0.42
45:OG:255:PHE:O	45:OG:259:LEU:HG	2.20	0.42
45:OG:328:VAL:O	45:OG:332:ILE:HG12	2.20	0.42
45:OG:330:ALA:O	45:OG:334:THR:HG23	2.20	0.42
46:OJ:9:GLY:HA2	46:OJ:66:MET:O	2.20	0.42
46:OJ:108:GLU:HA	46:OJ:111:GLU:OE1	2.20	0.42
45:OK:223:THR:HG23	45:OK:225:THR:H	1.85	0.42
45:OK:395:PHE:HZ	45:OK:418:PHE:HB3	1.85	0.42
46:OL:178:THR:HG22	46:OL:179:VAL:N	2.35	0.42
46:OL:179:VAL:HG13	46:OL:180:VAL:HG23	2.02	0.42
45:OM:275:ILE:N	45:OM:276:ILE:HD12	2.35	0.42
46:ON:130:LEU:HD21	46:ON:133:PHE:CE2	2.55	0.42
46:ON:186:THR:HA	46:ON:189:VAL:HG12	2.01	0.42
45:PA:419:SER:O	45:PA:422:ARG:HB3	2.19	0.42
46:PB:313:ALA:HB1	46:PB:367:PHE:CE1	2.55	0.42
45:PC:372:MET:SD	45:PC:373:ARG:HG3	2.59	0.42
45:PG:177:VAL:HG13	46:PH:327:ASP:OD2	2.20	0.42
45:PG:196:GLU:HG2	45:PG:197:HIS:CE1	2.55	0.42
45:PI:387:VAL:O	45:PI:390:ARG:HG3	2.20	0.42
45:PI:398:MET:CE	46:PJ:346:PRO:HD2	2.50	0.42
45:PK:186:ASN:OD1	45:PK:187:SER:N	2.52	0.42
45:PK:196:GLU:OE1	45:PK:196:GLU:N	2.53	0.42
45:PM:71:GLU:HG3	45:PM:73:THR:HG22	2.01	0.42
46:PN:65:LEU:HD22	46:PN:90:PHE:CE1	2.54	0.42
46:QD:310:TYR:HD2	46:QD:371:SER:HB2	1.84	0.42
46:QD:327:ASP:HA	46:QD:330:MET:HE3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QG:220:GLU:O	45:QG:221:ARG:HD3	2.20	0.42
46:QH:8:GLN:NE2	46:QH:17:GLY:HA3	2.35	0.42
46:QH:382:ALA:HB2	46:QH:415:MET:HE3	2.02	0.42
46:QH:392:LYS:HG3	46:QH:395:LEU:HD22	2.02	0.42
45:QI:254:GLU:OE2	46:QJ:98:GLY:HA2	2.19	0.42
46:QJ:317:PHE:CD1	46:QJ:365:VAL:HG22	2.55	0.42
45:QK:31:GLN:NE2	45:QK:35:GLN:HB2	2.34	0.42
45:QK:149:LEU:O	45:QK:153:LEU:HD23	2.20	0.42
45:QK:317:MET:O	45:QK:318:MET:HE2	2.19	0.42
45:QK:408:TYR:O	45:QK:413:MET:HB2	2.19	0.42
45:RA:252:ILE:HA	45:RA:255:PHE:CE2	2.55	0.42
45:RC:136:LEU:HD12	45:RC:137:VAL:H	1.85	0.42
45:RC:291:ILE:HG12	45:RC:375:VAL:HG22	2.02	0.42
46:RD:310:TYR:HB2	46:RD:341:PHE:HD2	1.85	0.42
46:RF:412:GLU:HA	46:RF:415:MET:HG2	2.02	0.42
45:RG:363:VAL:HG13	45:RG:366:GLY:HA3	2.02	0.42
45:RI:377:MET:SD	45:RI:379:SER:HB2	2.59	0.42
46:RJ:167:PHE:CZ	46:RJ:233:MET:HG2	2.55	0.42
46:RJ:178:THR:N	46:RJ:181:GLU:OE2	2.52	0.42
45:RK:12:GLY:HA2	45:RK:15:GLN:NE2	2.34	0.42
45:RK:15:GLN:HA	45:RK:18:ASN:OD1	2.20	0.42
45:RK:36:MET:HG2	45:RK:61:HIS:CE1	2.55	0.42
46:RL:226:ASN:HA	46:RL:229:VAL:HG22	2.01	0.42
46:RL:287:PRO:HD3	46:RL:325:GLU:OE1	2.20	0.42
46:RN:86:ARG:HE	46:RN:87:PRO:HD2	1.84	0.42
46:SB:58:ARG:HH11	46:TB:281:TYR:HE2	1.67	0.42
46:SB:391:ARG:HA	46:SB:391:ARG:HD2	1.79	0.42
45:SC:72:PRO:O	45:SC:75:ILE:HG22	2.19	0.42
46:SD:51:TYR:HB3	46:SD:59:TYR:HB3	2.01	0.42
46:SD:412:GLU:HA	46:SD:415:MET:HG3	2.02	0.42
45:SE:259:LEU:HB3	45:SE:268:MET:CE	2.50	0.42
45:SG:256:GLN:OE1	46:SH:397:TRP:HZ2	2.02	0.42
45:SI:2:ARG:HD3	45:SI:2:ARG:H	1.85	0.42
45:SI:174:SER:HB2	45:SI:177:VAL:O	2.20	0.42
45:SI:206:ASN:O	45:SI:210:TYR:HD1	2.03	0.42
46:SN:87:PRO:HA	46:SN:90:PHE:HD2	1.83	0.42
46:SN:178:THR:HG22	46:SN:180:VAL:H	1.85	0.42
45:TA:19:ALA:HA	45:TA:22:GLU:OE1	2.19	0.42
45:TA:331:SER:O	45:TA:335:ILE:HG12	2.19	0.42
46:TB:21:TRP:CZ2	46:TB:63:ALA:HB2	2.55	0.42
46:TB:143:THR:OG1	46:TB:147:MET:HE1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TC:240:ALA:HA	45:TC:243:ARG:HH12	1.83	0.42
45:TE:176:GLN:OE1	45:TE:176:GLN:N	2.48	0.42
45:TE:219:ILE:HD12	45:TE:222:PRO:HB3	2.00	0.42
46:TF:203:ASP:O	46:TF:207:LEU:HG	2.19	0.42
46:TF:361:LEU:HD11	46:TF:364:ALA:HB2	2.02	0.42
45:TG:208:ALA:O	45:TG:212:ILE:HG12	2.20	0.42
46:TH:121:ARG:O	46:TH:125:GLU:OE1	2.38	0.42
46:TH:202:ILE:HD11	46:TH:207:LEU:HD21	2.02	0.42
46:TH:213:ARG:O	46:TH:216:LYS:HE3	2.19	0.42
46:TH:304:ASP:OD1	46:TH:306:ARG:HG2	2.20	0.42
46:TJ:251:ARG:O	46:TJ:255:VAL:HG23	2.19	0.42
45:TK:47:ASP:N	45:TK:47:ASP:OD2	2.51	0.42
45:TK:372:MET:SD	45:TK:372:MET:N	2.93	0.42
46:UB:375:GLN:NE2	46:UB:422:TYR:HB3	2.35	0.42
45:UC:10:GLY:O	45:UC:13:GLY:N	2.53	0.42
45:UC:426:ALA:HB1	45:UC:430:LYS:HZ1	1.82	0.42
46:UD:356:ILE:HD12	46:UD:357:PRO:HD2	2.01	0.42
46:UH:86:ARG:NH2	46:VH:280:GLN:HE22	2.18	0.42
45:UI:268:MET:HG3	45:UI:380:ASN:HB2	2.02	0.42
46:UL:225:LEU:O	46:UL:228:LEU:HG	2.20	0.42
46:UL:301:CYS:SG	46:UL:302:ALA:N	2.93	0.42
45:VA:332:ILE:HD12	45:VA:351:PHE:CD2	2.55	0.42
45:VC:336:LYS:HE3	45:VC:351:PHE:HE2	1.85	0.42
46:VD:164:MET:HE3	46:VD:196:ALA:HA	2.01	0.42
46:VF:152:ILE:CG2	46:VF:164:MET:HE2	2.49	0.42
46:VH:380:ARG:O	46:VH:383:GLU:HG3	2.18	0.42
45:VI:245:ASP:N	45:VI:245:ASP:OD1	2.51	0.42
46:VJ:362:LYS:HE3	46:VJ:362:LYS:HB3	1.89	0.42
45:VK:209:ILE:HG23	45:VK:227:LEU:HD22	2.01	0.42
45:VK:422:ARG:HH12	45:VK:426:ALA:HB2	1.84	0.42
45:VM:313:MET:HG3	45:VM:381:SER:HA	2.00	0.42
46:VN:193:VAL:HG23	46:VN:265:PHE:HZ	1.85	0.42
46:VN:199:CYS:O	46:VN:265:PHE:HA	2.19	0.42
45:WE:48:ALA:O	45:WE:51:THR:HG22	2.20	0.42
46:WF:6:HIS:O	46:WF:63:ALA:HA	2.20	0.42
46:WF:391:ARG:HA	46:WF:391:ARG:HD2	1.74	0.42
45:WG:265:ILE:HG22	45:WG:380:ASN:HD21	1.85	0.42
45:WG:404:PHE:CD2	46:WH:259:PRO:HA	2.55	0.42
46:WH:200:MET:HE1	46:WH:266:PHE:CD2	2.54	0.42
46:WH:421:GLU:HA	46:WH:424:GLN:HG2	2.02	0.42
45:WI:48:ALA:O	45:WI:51:THR:HG22	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WI:101:ASN:HD22	46:WJ:256:ASN:HD21	1.66	0.42
46:WJ:72:THR:HG23	46:WJ:73:MET:SD	2.60	0.42
45:WK:183:GLU:N	45:WK:184:PRO:HD2	2.34	0.42
45:WK:420:GLU:HA	45:WK:423:GLU:HG2	2.02	0.42
45:WK:430:LYS:HA	45:WK:433:GLU:OE2	2.20	0.42
45:DC:188:ILE:HA	45:DC:191:THR:HG22	2.00	0.42
45:DC:239:THR:HG23	45:DC:243:ARG:HH21	1.84	0.42
4:0D:180:ARG:HH21	4:0D:202:GLN:CD	2.27	0.42
11:0S:9:GLY:HA2	11:0S:12:VAL:HG22	2.02	0.42
11:0S:208:ILE:HD11	11:0S:244:ILE:HD12	2.02	0.42
12:0T:164:VAL:O	12:0T:168:HIS:ND1	2.44	0.42
12:0T:252:ARG:NH1	12:0T:253:PRO:O	2.53	0.42
13:0U:24:HIS:HB2	13:0U:31:ILE:HD11	2.00	0.42
13:0U:118:ALA:HB1	13:0U:129:MET:HE3	2.02	0.42
13:0U:478:LEU:O	13:0U:478:LEU:HD23	2.20	0.42
13:0U:549:VAL:HA	13:0U:559:LEU:HA	2.01	0.42
14:0V:65:LYS:HA	14:0V:65:LYS:HD2	1.61	0.42
15:0X:93:ALA:O	15:0X:97:GLN:OE1	2.37	0.42
1:1A:39:TYR:CE2	45:ME:78:VAL:HA	2.55	0.42
1:1A:80:LYS:HB3	1:1A:80:LYS:HE2	1.62	0.42
4:1D:30:GLN:NE2	4:1D:31:LYS:O	2.53	0.42
5:1E:132:ILE:HD11	5:1E:142:VAL:HG21	2.01	0.42
5:1E:155:LYS:O	5:1E:156:ASP:OD1	2.38	0.42
17:1F:161:ILE:HG22	46:HL:332:ASN:CG	2.44	0.42
8:1H:71:GLU:O	8:1H:74:LEU:HG	2.20	0.42
8:1H:214:GLU:HA	8:1H:217:GLU:OE1	2.19	0.42
8:1H:246:LYS:HA	8:1H:249:ILE:HG22	2.02	0.42
19:1J:48:TYR:O	19:1J:53:LYS:NZ	2.50	0.42
20:1K:24:VAL:HA	20:1K:27:GLU:HG2	2.02	0.42
20:1K:166:ILE:HG22	20:1K:170:GLN:OE1	2.19	0.42
9:1N:488:TRP:HB2	9:1N:490:ILE:HD11	2.01	0.42
23:1O:163:LYS:HB3	23:1O:167:ARG:HH12	1.85	0.42
10:1Q:33:HIS:HB3	35:4S:197:ARG:NH1	2.33	0.42
25:1R:57:PRO:HA	30:2H:217:PHE:CZ	2.55	0.42
25:1R:128:TYR:HB2	25:1R:133:SER:OG	2.19	0.42
14:1V:87:LYS:HA	14:1V:87:LYS:HD3	1.88	0.42
14:1V:125:MET:HB3	14:1V:126:ASN:H	1.71	0.42
4:2D:217:ALA:HA	34:5R:431:ILE:HD11	2.02	0.42
30:2H:188:ASP:O	30:2H:189:SER:OG	2.30	0.42
31:2I:97:LYS:HD3	31:2I:98:ILE:H	1.85	0.42
20:2K:365:ARG:NH1	31:3I:284:VAL:HG12	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:2L:525:LEU:CD1	46:BN:320:ARG:H	2.32	0.42
21:2L:574:THR:O	21:2L:575:LYS:C	2.62	0.42
22:2M:95:MET:O	22:2M:203:CYS:HB2	2.19	0.42
23:2O:228:GLN:HE21	46:UJ:55:THR:HA	1.83	0.42
10:2Q:68:THR:HG23	10:2Q:152:LEU:HD13	2.01	0.42
10:2Q:105:ALA:C	10:2Q:123:MET:HE1	2.44	0.42
12:2T:129:ILE:HD11	12:2T:141:LYS:HB3	2.02	0.42
12:2T:213:LEU:HD13	12:2T:218:PHE:CE2	2.55	0.42
13:2U:194:ARG:HH12	46:WJ:79:GLY:C	2.27	0.42
13:2U:384:GLY:HA2	13:2U:407:GLY:HA2	2.01	0.42
13:2U:513:LYS:HG2	13:2U:528:LEU:HA	2.02	0.42
14:2V:107:ALA:HB1	14:2V:110:GLU:HA	2.02	0.42
14:2V:180:LYS:O	14:2V:183:GLN:HB2	2.20	0.42
26:2W:226:ASP:HA	26:2W:229:LYS:HZ2	1.84	0.42
1:3A:101:ASN:OD1	34:6R:58:ARG:HA	2.20	0.42
1:3A:104:ARG:HB3	34:6R:59:MET:H	1.84	0.42
16:3B:74:THR:H	16:3B:79:GLN:HG2	1.84	0.42
5:3E:116:GLU:OE1	5:3E:118:ARG:HB2	2.19	0.42
23:3O:366:ASN:O	23:3O:369:LEU:HB2	2.20	0.42
25:3R:9:PRO:HA	46:MN:227:HIS:CD2	2.53	0.42
25:3R:180:PHE:HB2	25:3R:185:PHE:CE2	2.54	0.42
25:3R:232:LEU:HD11	46:BN:92:PHE:HZ	1.84	0.42
12:3T:187:ILE:HG22	12:3T:189:PHE:CD1	2.54	0.42
13:3U:578:ILE:HD12	13:3U:593:VAL:O	2.19	0.42
27:4C:70:ASP:O	27:4C:74:LEU:HG	2.20	0.42
10:4Q:150:GLU:OE1	10:4Q:152:LEU:HD22	2.19	0.42
36:5B:67:ALA:O	36:5B:70:MET:HE3	2.20	0.42
37:5E:87:LEU:HD22	37:5E:92:GLN:HB3	2.01	0.42
37:5E:209:ARG:HH22	45:LC:264:ARG:NH1	2.18	0.42
37:5F:97:ARG:HH22	46:KF:262:ARG:HD3	1.83	0.42
37:5H:38:VAL:HG13	37:5H:39:ASP:N	2.35	0.42
37:5H:101:ASP:HB3	37:5H:103:ARG:NH1	2.35	0.42
37:5H:144:LEU:HA	37:5H:147:GLN:HG2	2.02	0.42
34:5R:361:LEU:HD21	34:5R:367:GLN:HG2	2.02	0.42
34:5R:593:ASP:CG	34:5R:598:TRP:H	2.24	0.42
40:6G:185:TYR:HH	45:UG:120:ASP:CG	2.28	0.42
41:6H:247:LYS:O	41:6H:248:LEU:HB2	2.20	0.42
10:6Q:48:GLU:HB3	10:6Q:161:ARG:HG2	2.02	0.42
34:6R:538:PHE:HB2	34:6R:578:TYR:CZ	2.55	0.42
34:7R:145:ILE:HA	46:AD:78:ALA:O	2.19	0.42
34:7R:231:TYR:CZ	34:7R:235:LYS:HD3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:7R:300:PHE:HB3	46:CB:77:ARG:CZ	2.50	0.42
46:AB:58:ARG:NH1	46:BB:280:GLN:O	2.51	0.42
46:AD:1:MET:HG2	46:AD:2:ARG:H	1.85	0.42
45:AE:107:HIS:O	45:AE:107:HIS:ND1	2.53	0.42
45:AG:174:SER:HB2	45:AG:177:VAL:O	2.20	0.42
45:AG:384:ILE:O	45:AG:387:VAL:HG22	2.19	0.42
45:AI:88:HIS:O	45:AI:91:GLN:HG2	2.20	0.42
45:AK:88:HIS:HB3	45:AK:91:GLN:HG2	2.02	0.42
45:AK:223:THR:HA	46:AL:323:THR:HG22	2.01	0.42
45:AM:221:ARG:NE	46:AN:322:SER:HB3	2.34	0.42
45:AM:231:ILE:O	45:AM:235:ILE:HG12	2.20	0.42
45:AM:434:GLU:O	45:AM:437:ILE:HG12	2.19	0.42
46:AN:60:VAL:HG11	46:BN:281:TYR:OH	2.19	0.42
46:AN:105:HIS:CE1	46:AN:150:LEU:HD12	2.54	0.42
46:AN:139:LEU:HD13	46:AN:170:VAL:HG12	2.02	0.42
45:BA:68:LEU:HD21	45:BA:118:CYS:SG	2.60	0.42
45:BA:425:LEU:O	45:BA:429:GLU:HG2	2.19	0.42
46:BB:65:LEU:HD22	46:BB:90:PHE:HE1	1.85	0.42
45:BC:36:MET:HE1	45:BC:49:PHE:CE2	2.54	0.42
45:BC:387:VAL:O	45:BC:391:LEU:HG	2.20	0.42
46:BF:226:ASN:ND2	49:BF:501:GDP:HN1	2.09	0.42
46:BH:97:ALA:HB3	46:BH:143:THR:HB	2.01	0.42
46:BH:178:THR:HG22	46:BH:179:VAL:H	1.84	0.42
46:BL:322:SER:O	46:BL:325:GLU:HG2	2.19	0.42
45:BM:394:LYS:O	45:BM:398:MET:HE3	2.20	0.42
45:CA:69:ASP:O	45:CA:94:SER:HA	2.20	0.42
45:CA:147:SER:HB2	45:CA:190:SER:HB3	2.01	0.42
46:CB:19:LYS:HE2	46:CB:19:LYS:HB3	1.81	0.42
46:CB:97:ALA:HB3	46:CB:143:THR:HB	2.00	0.42
45:CC:71:GLU:OE1	45:CC:73:THR:OG1	2.18	0.42
45:CC:187:SER:O	45:CC:191:THR:HG23	2.18	0.42
46:CD:87:PRO:HA	46:CD:90:PHE:HD2	1.84	0.42
46:CD:105:HIS:CD2	46:CD:150:LEU:HB2	2.55	0.42
46:CD:268:ILE:HG22	46:CD:368:VAL:HG22	2.01	0.42
46:CF:105:HIS:CE1	46:CF:150:LEU:HD12	2.55	0.42
45:CG:215:ARG:NH1	45:CG:215:ARG:HB2	2.35	0.42
45:CI:111:GLY:O	45:CI:115:VAL:HG13	2.18	0.42
46:CJ:86:ARG:NH1	46:DJ:281:TYR:CD2	2.88	0.42
46:CJ:152:ILE:HG23	46:CJ:164:MET:HE3	2.01	0.42
46:CL:102:ALA:HA	46:CL:403:MET:HE3	2.01	0.42
45:CM:312:TYR:HB2	45:CM:342:GLN:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CN:61:PRO:HD2	46:CN:84:LEU:O	2.20	0.42
46:CN:260:PHE:HB2	46:CN:263:LEU:HD13	2.01	0.42
46:DB:2:ARG:HB3	45:DC:96:LYS:HE2	2.02	0.42
46:DB:208:TYR:CE2	46:DB:225:LEU:HD11	2.55	0.42
46:DB:276:ARG:NH1	46:DB:276:ARG:O	2.52	0.42
45:DE:123:ARG:NH1	45:DE:123:ARG:HA	2.34	0.42
45:DG:104:ALA:HB3	45:DG:411:GLU:OE2	2.20	0.42
45:DG:121:ARG:HH22	45:DG:124:LYS:HE2	1.85	0.42
45:DI:191:THR:HA	45:DI:194:LEU:HG	2.02	0.42
45:DI:276:ILE:HD12	45:DI:276:ILE:HA	1.89	0.42
46:DJ:259:PRO:HA	45:DK:404:PHE:CD1	2.55	0.42
46:DJ:331:LEU:HD11	45:DK:176:GLN:HB3	2.01	0.42
45:DK:271:SER:HA	45:DK:302:MET:HG2	2.00	0.42
45:DK:272:TYR:H	45:DK:302:MET:HE3	1.85	0.42
46:DL:255:VAL:HG12	45:DM:407:TRP:CZ3	2.55	0.42
45:DM:186:ASN:OD1	45:DM:187:SER:N	2.53	0.42
46:DN:47:ILE:HG12	46:DN:51:TYR:HB2	2.01	0.42
46:EB:64:ILE:HA	46:EB:89:ASN:HB3	2.02	0.42
46:ED:156:ARG:NH1	46:ED:159:TYR:O	2.52	0.42
46:ED:324:LYS:HE3	45:EE:222:PRO:HG3	2.01	0.42
45:EE:251:ASP:HB2	45:EE:253:THR:HG22	2.01	0.42
46:EF:86:ARG:HD2	46:FF:281:TYR:HD1	1.85	0.42
46:EF:140:GLY:HA2	46:EF:171:PRO:HG3	2.01	0.42
45:EG:280:LYS:HA	45:EG:283:HIS:CD2	2.55	0.42
45:EI:171:ILE:HG23	45:EI:204:LEU:O	2.20	0.42
46:EJ:83:GLN:H	46:EJ:83:GLN:CD	2.28	0.42
45:EM:387:VAL:HA	45:EM:390:ARG:HG2	2.02	0.42
46:EN:86:ARG:NH1	46:EN:87:PRO:HG2	2.35	0.42
46:EN:203:ASP:O	46:EN:207:LEU:HG	2.19	0.42
45:FA:425:LEU:HD23	45:FA:425:LEU:HA	1.89	0.42
45:FC:220:GLU:OE2	45:FC:220:GLU:N	2.53	0.42
46:FD:200:MET:HB3	46:FD:200:MET:HE3	1.82	0.42
45:FE:135:PHE:HB2	45:FE:166:LYS:HG2	2.02	0.42
45:FE:348:PRO:HD2	46:FH:388:MET:HE1	2.02	0.42
45:FG:207:GLU:HB2	45:FG:304:LYS:HG3	2.00	0.42
45:FI:377:MET:SD	45:FI:379:SER:HB3	2.59	0.42
45:FI:408:TYR:HA	45:FI:411:GLU:OE1	2.20	0.42
46:FJ:100:ASN:HB2	46:FJ:103:LYS:HB2	2.01	0.42
46:FJ:105:HIS:CE1	46:FJ:150:LEU:HD12	2.55	0.42
46:FL:3:GLU:OE2	46:FL:128:ASP:N	2.52	0.42
45:GA:88:HIS:CD2	45:HA:280:LYS:HZ1	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GA:91:GLN:HG2	45:GA:121:ARG:NE	2.35	0.42
46:GB:201:VAL:HG23	46:GB:301:CYS:SG	2.60	0.42
46:GD:8:GLN:HE21	46:GD:65:LEU:HD11	1.85	0.42
45:GE:254:GLU:O	45:GE:254:GLU:HG3	2.19	0.42
46:GF:1:MET:O	46:GF:2:ARG:HG2	2.20	0.42
46:GF:3:GLU:HG3	46:GF:62:ARG:NH1	2.35	0.42
46:GF:164:MET:O	46:GF:197:ASP:HB2	2.20	0.42
45:GI:326:LYS:HA	45:GI:326:LYS:HD2	1.71	0.42
46:GJ:3:GLU:HB2	46:GJ:49:VAL:O	2.20	0.42
46:GJ:49:VAL:HG12	46:GJ:50:TYR:CD1	2.55	0.42
46:GL:265:PHE:HD2	46:GL:378:PHE:HZ	1.68	0.42
46:HB:118:ASP:C	46:HB:122:LYS:HZ2	2.28	0.42
46:HD:232:ALA:HB1	46:HD:268:ILE:HD12	2.02	0.42
46:HF:293:MET:HE2	46:HF:367:PHE:HD1	1.85	0.42
46:HH:117:LEU:HA	46:HH:120:VAL:HG12	2.01	0.42
46:HJ:145:SER:HB3	46:HJ:188:SER:OG	2.20	0.42
45:HK:201:ALA:HB3	45:HK:267:PHE:CD1	2.55	0.42
46:HL:321:MET:HE2	46:HL:321:MET:HB3	1.91	0.42
45:HM:88:HIS:HA	45:IM:280:LYS:HE2	2.02	0.42
45:IA:377:MET:HE3	45:IA:379:SER:OG	2.19	0.42
45:IC:398:MET:CE	46:ID:346:PRO:HD2	2.50	0.42
46:ID:52:ASN:HD21	46:ID:62:ARG:NH1	2.17	0.42
45:IE:154:LEU:HD21	45:IE:198:THR:OG1	2.19	0.42
46:IF:19:LYS:CE	46:IF:227:HIS:HB2	2.50	0.42
46:IF:299:MET:HE1	46:IF:367:PHE:CE2	2.54	0.42
46:IH:215:LEU:HD12	46:IH:215:LEU:H	1.84	0.42
46:IH:257:LEU:HD21	46:IH:314:SER:HB2	2.02	0.42
46:IJ:204:ASN:OD1	49:IJ:501:GDP:O2'	2.37	0.42
46:IL:208:TYR:HE1	46:IL:225:LEU:HD11	1.85	0.42
46:IN:6:HIS:O	46:IN:63:ALA:HA	2.19	0.42
46:JB:224:ASP:O	46:JB:228:LEU:HD23	2.20	0.42
46:JF:284:LEU:HD13	46:JF:362:LYS:HG2	2.00	0.42
45:JI:90:GLU:CG	45:KI:280:LYS:HZ1	2.27	0.42
45:JI:188:ILE:HG22	45:JI:421:ALA:HB1	2.02	0.42
45:JK:8:HIS:HB2	45:JK:67:PHE:CD2	2.55	0.42
45:JK:263:PRO:HD3	46:JN:396:HIS:CE1	2.54	0.42
46:JL:201:VAL:HG23	46:JL:301:CYS:SG	2.59	0.42
45:JM:141:VAL:HG21	45:JM:172:TYR:CE1	2.55	0.42
46:JN:193:VAL:HA	46:JN:264:HIS:CE1	2.55	0.42
46:KD:21:TRP:CH2	46:KD:61:PRO:HB3	2.55	0.42
45:KE:210:TYR:HE1	45:KE:227:LEU:HD11	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KE:300:ASN:O	45:KE:300:ASN:ND2	2.42	0.42
45:KG:426:ALA:O	45:KG:429:GLU:HG3	2.20	0.42
46:KH:22:GLU:HG3	46:KH:81:PHE:CD1	2.55	0.42
46:KJ:54:ALA:HB3	46:KJ:58:ARG:HG2	2.02	0.42
45:KM:30:ILE:HG22	45:KM:31:GLN:O	2.19	0.42
45:KM:184:PRO:O	45:KM:188:ILE:HD12	2.20	0.42
45:KM:387:VAL:HA	45:KM:390:ARG:NH1	2.35	0.42
45:LA:90:GLU:HG2	45:LA:121:ARG:NH1	2.24	0.42
46:LB:54:ALA:HB1	46:MB:281:TYR:O	2.20	0.42
46:LB:207:LEU:HB3	46:LB:225:LEU:HG	2.02	0.42
46:LF:404:ASP:OD1	46:LF:404:ASP:N	2.53	0.42
45:LG:66:VAL:HG11	45:LG:122:ILE:HD11	2.01	0.42
46:LH:175:VAL:O	46:LH:175:VAL:HG23	2.20	0.42
46:LJ:103:LYS:HA	46:LJ:107:THR:HG22	2.02	0.42
46:LJ:404:ASP:OD1	46:LJ:404:ASP:N	2.51	0.42
45:LK:98:ASP:OD1	45:LK:99:ALA:N	2.53	0.42
45:LK:287:SER:N	45:LK:290:GLU:OE2	2.38	0.42
46:LL:86:ARG:HG3	46:LL:87:PRO:HD2	2.02	0.42
46:LN:383:GLU:HA	46:LN:386:THR:HG22	2.00	0.42
45:MA:100:ALA:HB1	46:MB:252:LYS:HA	2.02	0.42
45:MA:326:LYS:HD2	46:MD:220:PRO:HD2	2.01	0.42
46:MB:405:GLU:HA	46:MB:408:PHE:CD1	2.55	0.42
45:MC:250:VAL:HG21	45:MC:318:MET:CE	2.49	0.42
45:ME:282:TYR:CE1	45:ME:371:VAL:HG22	2.55	0.42
46:MF:42:LEU:HA	46:MF:45:GLU:CD	2.45	0.42
46:MF:270:PHE:HD2	46:MF:273:LEU:HD21	1.85	0.42
46:MH:375:GLN:HG2	46:MH:379:LYS:HD2	2.01	0.42
45:MI:282:TYR:CE1	45:MI:371:VAL:HG22	2.53	0.42
46:MN:99:ASN:HA	46:MN:142:GLY:H	1.83	0.42
45:NA:71:GLU:HG2	46:NB:2:ARG:HH12	1.85	0.42
45:NE:175:PRO:HA	45:NE:390:ARG:NH1	2.35	0.42
45:NG:103:PHE:CE1	45:NG:148:GLY:HA2	2.50	0.42
46:NH:282:ARG:HB3	46:NH:283:ALA:H	1.60	0.42
45:NK:96:LYS:HB3	46:NL:2:ARG:NH1	2.30	0.42
46:NL:87:PRO:HA	46:NL:90:PHE:HD2	1.85	0.42
45:NM:419:SER:O	45:NM:423:GLU:OE1	2.38	0.42
46:NN:178:THR:HG22	46:NN:180:VAL:H	1.85	0.42
45:OA:275:ILE:HG23	45:OA:368:LEU:HD11	2.02	0.42
46:OB:9:GLY:HA2	46:OB:66:MET:O	2.20	0.42
45:OC:224:TYR:HD1	47:OC:501:GTP:C6	2.37	0.42
46:OD:113:ILE:HA	46:OD:116:VAL:HG12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OE:169:PHE:HA	45:OE:202:VAL:CG2	2.50	0.42
46:OF:187:LEU:HD11	46:OF:408:PHE:CE1	2.55	0.42
46:OF:329:GLN:HA	46:OF:332:ASN:HD21	1.84	0.42
45:OG:222:PRO:HG2	46:OH:324:LYS:HE3	2.01	0.42
46:OL:178:THR:HG22	46:OL:179:VAL:H	1.85	0.42
46:OL:304:ASP:HB3	46:OL:307:HIS:ND1	2.34	0.42
45:PA:113:GLU:OE2	45:PA:113:GLU:N	2.52	0.42
46:PB:9:GLY:HA2	46:PB:66:MET:O	2.20	0.42
45:PC:174:SER:HB3	45:PC:207:GLU:HG2	2.01	0.42
45:PC:210:TYR:CD1	46:PD:324:LYS:HE3	2.55	0.42
45:PC:282:TYR:OH	45:PC:370:LYS:HB3	2.19	0.42
46:PD:150:LEU:O	46:PD:154:LYS:HG2	2.19	0.42
46:PD:189:VAL:HA	46:PD:192:LEU:HB2	2.02	0.42
46:PD:285:THR:O	46:PD:288:GLU:HG3	2.20	0.42
45:PE:119:LEU:HG	45:PE:156:ARG:NH2	2.35	0.42
45:PE:288:VAL:HA	45:PE:291:ILE:HG12	2.00	0.42
45:PG:426:ALA:O	45:PG:429:GLU:HG2	2.18	0.42
46:PH:203:ASP:OD2	46:PH:302:ALA:N	2.29	0.42
45:PI:352:LYS:HZ3	46:PL:179:VAL:N	2.14	0.42
46:PJ:16:ILE:HD11	49:PJ:501:GDP:N2	2.35	0.42
45:PK:2:ARG:HH21	45:PK:133:GLN:CD	2.28	0.42
45:PK:217:LEU:HB3	45:PK:219:ILE:HG12	2.02	0.42
45:PM:176:GLN:HG2	46:PN:331:LEU:HD11	2.02	0.42
46:PN:1:MET:CE	46:PN:2:ARG:HG3	2.50	0.42
45:QA:324:VAL:O	45:QA:328:VAL:HG23	2.20	0.42
46:QD:50:TYR:O	46:QD:62:ARG:HG2	2.20	0.42
46:QD:199:CYS:O	46:QD:200:MET:HE2	2.20	0.42
46:QD:391:ARG:HD2	46:QD:391:ARG:HA	1.83	0.42
45:QG:71:GLU:OE2	45:QG:73:THR:OG1	2.29	0.42
45:QG:317:MET:O	45:QG:318:MET:HE2	2.18	0.42
46:QH:51:TYR:HB3	46:QH:59:TYR:HB3	2.01	0.42
46:QH:175:VAL:O	46:QH:175:VAL:HG13	2.20	0.42
45:QK:332:ILE:HA	45:QK:335:ILE:HG22	2.02	0.42
46:QL:3:GLU:HB3	46:QL:49:VAL:HA	2.02	0.42
46:QL:322:SER:OG	46:QL:325:GLU:OE1	2.38	0.42
45:RA:292:THR:HG21	45:RA:331:SER:HB3	2.01	0.42
46:RB:20:PHE:O	46:RB:24:ILE:HG12	2.19	0.42
46:RB:68:LEU:HD12	46:RB:93:GLY:HA3	2.01	0.42
46:RB:161:ASP:OD2	46:RB:162:ARG:HD2	2.20	0.42
46:RB:257:LEU:HA	46:RB:312:THR:HG21	2.02	0.42
46:RB:262:ARG:NH2	46:RB:418:LEU:HD12	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RB:317:PHE:CD1	46:RB:365:VAL:HG22	2.55	0.42
45:RC:71:GLU:HA	45:RC:72:PRO:HD3	1.87	0.42
45:RC:83:TYR:HB3	45:RC:86:LEU:HD12	2.02	0.42
46:RD:251:ARG:HH21	45:RE:105:ARG:HD2	1.84	0.42
46:RD:390:ARG:HB2	46:RD:390:ARG:CZ	2.50	0.42
45:RE:24:PHE:HA	45:RE:27:GLU:HG2	2.01	0.42
45:RE:208:ALA:O	45:RE:212:ILE:HG12	2.20	0.42
45:RG:69:ASP:O	45:RG:94:SER:HA	2.20	0.42
45:RG:434:GLU:O	45:RG:437:ILE:HG12	2.20	0.42
46:RH:2:ARG:HH12	45:RI:71:GLU:HA	1.85	0.42
45:RK:282:TYR:CE1	45:RK:370:LYS:HE3	2.55	0.42
45:RM:217:LEU:HD21	45:RM:368:LEU:HD22	2.01	0.42
46:RN:65:LEU:HD22	46:RN:90:PHE:CE1	2.55	0.42
46:RN:69:GLU:HA	46:RN:70:PRO:HD3	1.86	0.42
46:SB:9:GLY:HA2	46:SB:66:MET:O	2.20	0.42
46:SB:69:GLU:HA	46:SB:70:PRO:HD3	1.85	0.42
45:SG:194:LEU:HB2	45:SG:198:THR:OG1	2.19	0.42
46:SH:345:ILE:O	46:SH:345:ILE:HG23	2.19	0.42
45:SI:217:LEU:HD23	45:SI:217:LEU:HA	1.83	0.42
46:SJ:114:ASP:OD1	46:SJ:115:SER:N	2.52	0.42
45:SK:101:ASN:HA	45:SK:144:GLY:H	1.84	0.42
45:SK:214:ARG:NH2	45:SK:222:PRO:HG3	2.35	0.42
46:SL:24:ILE:HD11	46:SL:28:HIS:HE1	1.85	0.42
45:SM:203:MET:HE3	45:SM:384:ILE:HG12	2.02	0.42
45:SM:226:ASN:HA	45:SM:229:ARG:HG2	2.01	0.42
45:TA:147:SER:HB2	45:TA:190:SER:HB3	2.01	0.42
46:TB:222:TYR:O	46:TB:226:ASN:ND2	2.33	0.42
46:TD:86:ARG:HH21	46:TD:87:PRO:CG	2.33	0.42
45:TE:208:ALA:O	45:TE:212:ILE:HG12	2.19	0.42
46:TF:65:LEU:HD11	46:TF:85:PHE:CD2	2.55	0.42
46:TH:69:GLU:HA	46:TH:70:PRO:HD3	1.86	0.42
46:TH:270:PHE:HD1	46:TH:366:THR:HG22	1.85	0.42
46:TJ:6:HIS:HB3	46:TJ:21:TRP:HZ2	1.85	0.42
46:TJ:193:VAL:HG21	46:TJ:418:LEU:HD13	2.02	0.42
46:TL:334:GLN:HA	46:TL:341:PHE:CE2	2.55	0.42
45:UG:68:LEU:HD11	45:UG:114:ILE:HG22	2.02	0.42
45:UG:356:ASN:OD1	45:UG:357:TYR:N	2.52	0.42
46:UH:190:HIS:ND1	46:UH:411:ALA:HA	2.34	0.42
45:UI:2:ARG:HA	45:UI:133:GLN:HE22	1.85	0.42
45:UI:331:SER:O	45:UI:335:ILE:HG12	2.19	0.42
46:UJ:324:LYS:HD3	45:UK:222:PRO:CG	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UM:56:THR:OG1	45:VK:282:TYR:O	2.37	0.42
45:UM:216:ASN:HB3	45:UM:275:ILE:O	2.20	0.42
46:UN:180:VAL:O	46:UN:180:VAL:HG12	2.19	0.42
46:VB:55:THR:HG23	46:WB:283:ALA:HA	2.01	0.42
46:VB:267:MET:N	46:VB:267:MET:SD	2.93	0.42
46:VB:272:PRO:HG3	46:VB:284:LEU:HD11	2.00	0.42
45:VC:404:PHE:CD2	46:VD:259:PRO:HA	2.55	0.42
45:VE:2:ARG:NH2	45:VE:242:LEU:HA	2.35	0.42
45:VE:81:GLY:O	45:VE:84:ARG:HG3	2.20	0.42
46:VF:2:ARG:HH12	46:VF:240:LEU:CD1	2.33	0.42
45:VG:324:VAL:CG1	45:VG:326:LYS:HG2	2.50	0.42
45:VI:152:LEU:O	45:VI:155:GLU:HG3	2.20	0.42
45:VI:172:TYR:OH	45:VI:191:THR:HG22	2.19	0.42
45:VI:342:GLN:N	45:VI:342:GLN:OE1	2.53	0.42
46:VN:132:GLY:HA3	46:VN:163:ILE:O	2.20	0.42
46:VN:132:GLY:CA	46:VN:163:ILE:O	2.68	0.42
46:VN:276:ARG:HD3	46:VN:276:ARG:HA	1.89	0.42
45:WA:401:LYS:HZ1	46:WB:344:TRP:CG	2.37	0.42
46:WB:282:ARG:NH2	46:WB:288:GLU:HB3	2.35	0.42
45:WG:27:GLU:CD	45:WG:243:ARG:HH12	2.27	0.42
45:WG:398:MET:HE2	45:WG:398:MET:HB3	1.83	0.42
46:WJ:178:THR:HG22	46:WJ:180:VAL:H	1.85	0.42
45:WK:274:PRO:HB3	45:WK:291:ILE:HD12	2.02	0.42
46:WL:10:GLY:O	46:WL:14:ASN:ND2	2.52	0.42
46:WN:258:ILE:HD12	46:WN:264:HIS:HB3	2.00	0.42
46:WN:268:ILE:HG22	46:WN:368:VAL:HG23	2.02	0.42
45:DC:31:GLN:HB2	45:DC:32:PRO:HD2	2.01	0.42
45:DC:326:LYS:HA	45:DC:326:LYS:HD3	1.92	0.42
1:0A:101:ASN:HD21	1:0A:104:ARG:HD2	1.85	0.42
1:0A:135:SER:N	1:0A:138:TRP:HD1	2.14	0.42
3:0C:103:GLN:O	3:0C:107:GLU:OE1	2.38	0.42
5:0E:42:LYS:HE3	5:0E:78:THR:HB	2.01	0.42
6:0F:137:ARG:O	6:0F:155:LYS:HG2	2.19	0.42
7:0G:43:SER:HA	46:JL:355:ASP:HB3	2.02	0.42
7:0G:165:TYR:CD1	7:0G:168:PHE:HB2	2.55	0.42
11:0S:175:PHE:CD2	11:0S:211:LEU:HD22	2.54	0.42
12:0T:255:SER:O	12:0T:258:VAL:HG22	2.20	0.42
12:0T:271:MET:O	12:0T:271:MET:SD	2.77	0.42
13:0U:457:VAL:HG12	13:0U:461:ASN:HA	2.01	0.42
13:0U:508:THR:OG1	13:0U:536:VAL:HG23	2.19	0.42
16:1B:43:ARG:HH22	16:1B:45:GLU:HB3	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:1B:314:PRO:HD3	16:1B:378:PHE:CD2	2.55	0.42
16:1B:425:VAL:O	16:1B:429:VAL:HG23	2.20	0.42
17:1F:23:THR:HG22	17:1F:24:ASN:H	1.85	0.42
8:1H:167:VAL:O	8:1H:171:VAL:HG23	2.20	0.42
8:1H:247:ALA:O	8:1H:250:PHE:HE1	2.03	0.42
8:1H:329:LYS:O	8:1H:333:LYS:HG2	2.20	0.42
19:1J:141:GLY:HA3	45:IE:372:MET:CE	2.50	0.42
19:1J:366:LYS:HB3	19:1J:405:LYS:C	2.45	0.42
21:1L:308:ARG:NH2	45:BG:367:ASP:O	2.53	0.42
21:1L:340:ARG:HG3	21:1L:340:ARG:O	2.20	0.42
21:1L:409:ILE:HA	21:1L:436:PHE:HE2	1.84	0.42
21:1L:780:GLN:C	21:1L:782:LYS:H	2.28	0.42
21:1L:915:ARG:HG3	21:1L:916:PHE:CD1	2.55	0.42
21:1L:932:VAL:O	21:1L:932:VAL:HG12	2.20	0.42
22:1M:241:LYS:HG3	22:1M:349:GLY:O	2.20	0.42
22:1M:324:HIS:O	22:1M:348:ASN:ND2	2.28	0.42
9:1N:247:GLN:HB3	9:1N:250:ILE:HG12	2.02	0.42
23:1O:129:ALA:O	23:1O:132:ILE:HG12	2.20	0.42
23:1O:261:LEU:HD13	45:TA:57:GLY:O	2.20	0.42
24:1P:74:ARG:O	24:1P:77:LYS:HG2	2.20	0.42
24:1P:200:LEU:O	24:1P:203:GLU:N	2.53	0.42
24:1P:215:LYS:O	24:1P:219:GLN:HG2	2.20	0.42
10:1Q:74:PRO:HB3	10:1Q:148:TYR:OH	2.19	0.42
25:1R:409:LYS:HG2	25:1R:410:TRP:H	1.83	0.42
11:1S:42:ASN:ND2	45:WC:128:ASN:OD1	2.49	0.42
11:1S:139:ASP:OD2	11:1S:140:ARG:N	2.53	0.42
11:1S:168:HIS:N	11:1S:203:LYS:HZ2	2.18	0.42
11:1S:279:LYS:O	11:1S:281:LEU:N	2.48	0.42
13:1U:492:LEU:O	13:1U:510:SER:N	2.53	0.42
14:1V:111:SER:O	14:1V:111:SER:OG	2.31	0.42
15:1X:109:GLN:O	15:1X:113:LEU:HD23	2.20	0.42
30:2H:171:LEU:HD12	30:2H:176:LYS:HZ3	1.84	0.42
20:2K:427:LYS:HA	20:2K:427:LYS:HD3	1.89	0.42
21:2L:405:LYS:HB3	46:CN:320:ARG:NH1	2.34	0.42
21:2L:649:PHE:O	21:2L:653:TRP:CD1	2.72	0.42
9:2N:34:LEU:HD22	9:2N:37:LYS:HZ1	1.85	0.42
23:2O:214:ILE:CD1	40:6G:87:LYS:HD3	2.50	0.42
25:2R:44:VAL:HG11	25:2R:46:TYR:CE1	2.55	0.42
25:2R:338:LYS:HG2	25:2R:339:LYS:H	1.85	0.42
11:2S:18:ARG:O	11:2S:21:VAL:HG12	2.19	0.42
11:2S:25:LEU:HD12	11:2S:25:LEU:HA	1.92	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:2S:238:VAL:HG21	11:2S:294:PHE:CE1	2.54	0.42
13:2U:162:ILE:HG13	13:2U:173:LEU:HB2	2.02	0.42
13:2U:458:LYS:HZ1	13:2U:462:ASP:H	1.68	0.42
13:2U:493:PHE:HA	13:2U:509:GLY:HA2	2.02	0.42
14:2V:135:VAL:O	14:2V:139:VAL:HG13	2.20	0.42
16:3B:125:TYR:CE1	16:3B:192:THR:HB	2.55	0.42
21:3L:186:ASN:OD1	21:3L:188:GLN:HG3	2.20	0.42
23:3O:275:LYS:O	23:3O:279:VAL:HG23	2.20	0.42
23:3O:296:LYS:HG2	46:UL:360:GLY:HA2	2.02	0.42
23:3O:457:GLN:HB3	23:3O:461:LYS:HZ3	1.85	0.42
10:3Q:6:PHE:HB2	45:WG:121:ARG:HH12	1.84	0.42
25:3R:429:GLU:OE1	46:FL:280:GLN:HB2	2.20	0.42
12:3T:40:GLN:HG3	12:3T:41:PHE:N	2.34	0.42
13:3U:24:HIS:HB2	13:3U:31:ILE:HD11	2.01	0.42
13:3U:69:TYR:CE2	13:3U:110:PHE:HE2	2.38	0.42
13:3U:192:ILE:HD13	46:WN:78:ALA:HB1	2.02	0.42
27:4C:130:ARG:HA	27:4C:133:VAL:HG22	2.02	0.42
36:5A:57:PRO:HB3	46:KB:391:ARG:HD2	2.02	0.42
36:5A:58:TYR:HD2	46:KB:392:LYS:HD2	1.84	0.42
36:5A:90:GLN:HE22	36:5A:98:LEU:H	1.67	0.42
36:5A:156:VAL:HG22	36:5A:158:ASN:H	1.84	0.42
36:5B:142:GLN:HB3	46:NH:320:ARG:HH11	1.84	0.42
36:5C:32:ALA:C	36:5C:34:PHE:H	2.28	0.42
37:5E:116:TYR:CE1	45:NA:85:GLN:HA	2.52	0.42
37:5F:16:GLN:HA	37:5F:22:LYS:HD2	2.02	0.42
37:5F:168:LEU:O	37:5F:170:LYS:NZ	2.50	0.42
37:5G:67:ARG:HA	37:5G:68:PRO:HD3	1.87	0.42
37:5H:29:LYS:HZ2	45:OK:219:ILE:HD13	1.84	0.42
34:5R:64:ASP:OD2	34:5R:64:ASP:N	2.52	0.42
34:5R:469:LYS:HZ3	34:5R:472:GLU:HA	1.84	0.42
40:6G:118:LYS:HE2	46:UJ:117:LEU:HD23	2.02	0.42
10:6Q:25:TRP:CE3	10:6Q:59:ILE:HG22	2.55	0.42
34:6R:51:PRO:O	34:6R:54:ILE:HG22	2.20	0.42
34:6R:83:PRO:HD2	34:6R:86:LEU:HD12	2.01	0.42
34:7R:318:TYR:HB3	34:7R:321:MET:SD	2.59	0.42
34:7R:463:SER:OG	46:FB:276:ARG:NH2	2.44	0.42
45:AA:93:ILE:HG12	45:AA:117:LEU:HD22	2.00	0.42
45:AA:231:ILE:O	45:AA:235:ILE:HG12	2.20	0.42
46:AD:287:PRO:HG3	46:AD:329:GLN:NE2	2.35	0.42
46:AH:77:ARG:HB3	46:AH:77:ARG:HH11	1.84	0.42
46:AH:164:MET:HE3	46:AH:164:MET:HB3	1.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AI:201:ALA:HB3	45:AI:267:PHE:CD2	2.55	0.42
46:AJ:289:LEU:HD11	46:AJ:363:MET:HB3	2.02	0.42
45:AK:171:ILE:HG23	45:AK:204:LEU:O	2.20	0.42
45:AM:384:ILE:O	45:AM:387:VAL:HG22	2.20	0.42
46:AN:317:PHE:HE2	46:AN:326:VAL:HG13	1.85	0.42
45:BA:318:MET:O	45:BA:375:VAL:HA	2.20	0.42
45:BC:221:ARG:NH2	46:BD:322:SER:H	2.18	0.42
46:BD:20:PHE:O	46:BD:24:ILE:HG12	2.20	0.42
46:BF:118:ASP:O	46:BF:122:LYS:HG2	2.19	0.42
46:BF:242:PHE:CD1	46:BF:356:ILE:HG13	2.55	0.42
45:BG:288:VAL:HA	45:BG:291:ILE:HG12	2.01	0.42
46:BH:332:ASN:HA	46:BH:336:LYS:HZ3	1.84	0.42
46:BJ:10:GLY:O	46:BJ:14:ASN:ND2	2.52	0.42
45:BK:306:ASP:OD2	45:BK:308:ARG:HB2	2.20	0.42
45:CA:32:PRO:HB3	45:CA:83:TYR:CE1	2.54	0.42
45:CA:335:ILE:HA	45:CA:338:LYS:NZ	2.35	0.42
46:CB:254:ALA:O	46:CB:258:ILE:HD12	2.20	0.42
46:CB:289:LEU:HD11	46:CB:363:MET:HG2	2.00	0.42
45:CC:257:THR:HG21	46:CD:98:GLY:O	2.20	0.42
45:CI:154:LEU:HD12	45:CI:155:GLU:N	2.34	0.42
46:CJ:287:PRO:HA	46:CJ:329:GLN:HE22	1.85	0.42
46:CJ:319:GLY:HA2	46:CJ:357:PRO:HD3	2.02	0.42
45:CK:350:GLY:HA2	46:CL:179:VAL:HG12	2.02	0.42
45:CM:35:GLN:NE2	45:CM:60:LYS:HB2	2.35	0.42
45:CM:88:HIS:ND1	45:CM:90:GLU:HG3	2.35	0.42
45:CM:331:SER:O	45:CM:335:ILE:HG12	2.19	0.42
45:DA:124:LYS:HE2	45:DA:124:LYS:HB2	1.87	0.42
46:DB:97:ALA:HB3	46:DB:143:THR:HB	2.02	0.42
46:DB:377:MET:O	46:DB:380:ARG:HG2	2.20	0.42
46:DH:67:ASP:OD1	46:DH:68:LEU:N	2.50	0.42
46:DH:379:LYS:HG3	46:DH:383:GLU:OE2	2.20	0.42
45:DI:311:LYS:N	45:DI:382:THR:OG1	2.52	0.42
45:DK:207:GLU:H	45:DK:207:GLU:CD	2.26	0.42
46:DL:334:GLN:HA	46:DL:341:PHE:CE1	2.54	0.42
45:EA:88:HIS:HB3	45:EA:91:GLN:HG2	2.02	0.42
46:ED:310:TYR:HB2	46:ED:341:PHE:HD1	1.85	0.42
45:EE:323:VAL:HA	45:EE:373:ARG:HH12	1.84	0.42
46:EF:378:PHE:HA	46:EF:381:VAL:HG12	2.01	0.42
46:EJ:258:ILE:HG13	45:EK:407:TRP:HE1	1.85	0.42
45:FA:269:LEU:HG	45:FA:301:MET:HE2	2.01	0.42
46:FB:201:VAL:HG22	46:FB:266:PHE:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FC:181:VAL:HG23	45:FC:182:VAL:HG13	2.02	0.42
45:FC:205:ASP:OD1	45:FC:303:ALA:HA	2.20	0.42
45:FE:135:PHE:HZ	45:FE:161:TYR:HE2	1.68	0.42
46:FF:406:MET:N	46:FF:406:MET:SD	2.93	0.42
45:FI:256:GLN:H	45:FI:256:GLN:HG3	1.66	0.42
45:FI:287:SER:HB3	45:FI:290:GLU:OE1	2.20	0.42
45:FI:332:ILE:HD12	45:FI:351:PHE:CE2	2.55	0.42
46:FJ:229:VAL:O	46:FJ:233:MET:HG3	2.20	0.42
45:FK:27:GLU:HG3	45:FK:28:HIS:ND1	2.35	0.42
46:FN:12:CYS:O	46:FN:16:ILE:HG12	2.20	0.42
46:FN:20:PHE:O	46:FN:24:ILE:HG12	2.20	0.42
45:GA:203:MET:HE2	45:GA:269:LEU:HB3	2.00	0.42
45:GC:145:THR:HG22	47:GC:501:GTP:PG	2.60	0.42
45:GE:27:GLU:OE1	45:GE:243:ARG:NH1	2.34	0.42
45:GE:68:LEU:HD21	45:GE:118:CYS:SG	2.60	0.42
45:GG:164:LYS:HD3	45:GG:164:LYS:HA	1.85	0.42
45:GI:150:GLY:O	45:GI:154:LEU:HG	2.19	0.42
45:GI:205:ASP:OD1	45:GI:303:ALA:HA	2.20	0.42
45:GK:259:LEU:HD11	45:GK:316:SER:HB2	2.01	0.42
46:GL:318:ARG:HH11	46:GL:358:PRO:HG3	1.85	0.42
46:GN:185:ALA:O	46:GN:189:VAL:HG23	2.20	0.42
45:HA:179:THR:HG22	46:HB:350:LYS:HZ1	1.84	0.42
45:HA:260:VAL:HB	46:HD:397:TRP:CH2	2.54	0.42
46:HB:20:PHE:O	46:HB:24:ILE:HG12	2.20	0.42
45:HC:200:VAL:HG13	45:HC:268:MET:SD	2.59	0.42
45:HE:34:GLY:O	45:HE:60:LYS:HA	2.20	0.42
45:HE:434:GLU:O	45:HE:437:ILE:HG12	2.20	0.42
46:HF:175:VAL:CG2	46:HF:205:GLU:HB3	2.49	0.42
45:HG:91:GLN:HB3	45:HG:121:ARG:HH12	1.84	0.42
46:HH:148:GLY:O	46:HH:152:ILE:HG12	2.19	0.42
46:HJ:287:PRO:HG3	46:HJ:329:GLN:NE2	2.35	0.42
46:HJ:372:THR:O	46:HJ:375:GLN:HG2	2.20	0.42
46:HL:6:HIS:O	46:HL:63:ALA:HA	2.20	0.42
45:HM:123:ARG:HH11	45:HM:123:ARG:HA	1.85	0.42
46:HN:86:ARG:HA	46:IN:281:TYR:CE1	2.55	0.42
45:IA:401:LYS:HB2	45:IA:401:LYS:HE3	1.78	0.42
46:IB:200:MET:SD	46:IB:268:ILE:HD13	2.60	0.42
46:ID:145:SER:OG	46:ID:188:SER:HB3	2.20	0.42
45:IE:88:HIS:HB3	45:IE:91:GLN:HG2	2.01	0.42
46:IF:341:PHE:HB3	46:IF:348:ASN:HD21	1.84	0.42
46:IH:73:MET:CE	46:IH:92:PHE:HB3	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:II:200:VAL:HG13	45:II:268:MET:CE	2.50	0.42
45:II:402:ARG:HA	45:II:402:ARG:HD3	1.80	0.42
45:IK:323:VAL:HG13	45:IK:373:ARG:HG2	2.02	0.42
46:IL:69:GLU:HA	46:IL:70:PRO:HD3	1.93	0.42
46:IL:91:VAL:HG21	46:IL:116:VAL:HB	2.02	0.42
45:IM:419:SER:O	45:IM:423:GLU:OE1	2.38	0.42
46:IN:361:LEU:HD23	46:IN:361:LEU:HA	1.83	0.42
45:JC:174:SER:HB3	45:JC:207:GLU:HG2	2.01	0.42
45:JC:215:ARG:HB2	45:JC:215:ARG:HH11	1.84	0.42
46:JD:285:THR:HG23	46:JD:288:GLU:H	1.85	0.42
45:JE:175:PRO:HG3	45:JE:390:ARG:NH1	2.35	0.42
46:JF:263:LEU:HD22	46:JF:422:TYR:CD1	2.54	0.42
46:JH:145:SER:HB2	46:JH:188:SER:OG	2.20	0.42
45:JI:90:GLU:H	45:KI:280:LYS:NZ	2.18	0.42
45:JI:220:GLU:C	45:JI:221:ARG:HD2	2.45	0.42
45:JK:88:HIS:ND1	45:JK:89:PRO:HD2	2.35	0.42
45:JK:262:TYR:OH	46:JN:391:ARG:O	2.26	0.42
45:KC:245:ASP:OD1	45:KC:245:ASP:N	2.52	0.42
45:KE:152:LEU:HD12	45:KE:152:LEU:HA	1.88	0.42
45:KE:214:ARG:HD2	45:KE:214:ARG:O	2.20	0.42
46:KF:253:LEU:HD11	46:KF:316:LEU:HD11	2.02	0.42
46:KH:3:GLU:HG3	46:KH:62:ARG:NH1	2.35	0.42
45:KI:253:THR:HA	45:KI:256:GLN:NE2	2.34	0.42
46:KJ:32:PRO:HG3	46:KJ:81:PHE:CD2	2.55	0.42
45:LC:141:VAL:HG23	45:LC:170:THR:HB	2.02	0.42
45:LC:223:THR:HG22	45:LC:224:TYR:H	1.84	0.42
45:LE:71:GLU:HA	45:LE:72:PRO:HD3	1.88	0.42
45:LG:170:THR:O	45:LG:204:LEU:HB2	2.18	0.42
46:LH:65:LEU:HD22	46:LH:90:PHE:CE1	2.54	0.42
45:LI:66:VAL:HG11	45:LI:122:ILE:HD11	2.02	0.42
45:LI:155:GLU:O	45:LI:158:SER:OG	2.36	0.42
45:LI:392:ASP:OD1	45:LI:422:ARG:NH1	2.53	0.42
46:LL:200:MET:CE	46:LL:268:ILE:HG21	2.50	0.42
45:LM:69:ASP:OD1	45:LM:70:LEU:N	2.51	0.42
46:MB:330:MET:HE2	46:MB:349:ILE:HG21	2.00	0.42
46:MF:311:LEU:HD23	46:MF:311:LEU:HA	1.89	0.42
45:MG:101:ASN:HA	45:MG:144:GLY:H	1.84	0.42
45:MG:276:ILE:HG13	45:MG:280:LYS:HE3	2.01	0.42
45:MI:338:LYS:HE2	45:MI:338:LYS:HB2	1.81	0.42
46:MJ:173:PRO:HG2	46:MJ:380:ARG:NE	2.34	0.42
46:MJ:200:MET:HE3	46:MJ:268:ILE:HD13	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MK:56:THR:HG23	45:MK:58:ALA:H	1.85	0.42
45:MK:231:ILE:O	45:MK:235:ILE:HG12	2.20	0.42
46:ML:105:HIS:CE1	46:ML:150:LEU:HD12	2.55	0.42
46:ML:233:MET:O	46:ML:236:VAL:HG12	2.20	0.42
45:NC:425:LEU:O	45:NC:429:GLU:HG2	2.20	0.42
46:ND:200:MET:HB3	46:ND:200:MET:HE3	1.66	0.42
46:NF:207:LEU:HD23	46:NF:225:LEU:HB3	2.00	0.42
45:NG:11:GLN:NE2	46:NH:245:GLN:O	2.52	0.42
46:NH:415:MET:HE3	46:NH:415:MET:HB3	1.84	0.42
45:NI:101:ASN:HA	45:NI:144:GLY:H	1.84	0.42
45:NI:107:HIS:ND1	45:NI:107:HIS:O	2.53	0.42
45:NI:265:ILE:HG12	45:NI:432:TYR:CE1	2.55	0.42
45:NI:330:ALA:O	45:NI:334:THR:HG23	2.20	0.42
46:NL:113:ILE:HG12	46:NL:117:LEU:HG	2.02	0.42
47:NM:501:GTP:O1G	46:NN:252:LYS:NZ	2.33	0.42
46:NN:194:GLU:OE2	46:NN:414:ASN:ND2	2.53	0.42
46:NN:373:ALA:O	46:NN:376:GLU:HG2	2.19	0.42
46:NN:386:THR:OG1	46:NN:390:ARG:NH2	2.53	0.42
45:OA:209:ILE:HG12	45:OA:230:LEU:HD11	2.02	0.42
45:OA:386:GLU:OE1	45:OA:386:GLU:N	2.51	0.42
46:OD:52:ASN:HD21	46:OD:62:ARG:HB3	1.84	0.42
45:OE:137:VAL:HG23	45:OE:168:GLY:HA2	2.02	0.42
46:OF:213:ARG:NH1	46:OF:297:LYS:HG2	2.35	0.42
45:OG:119:LEU:O	45:OG:122:ILE:HG22	2.20	0.42
45:OG:271:SER:OG	45:OG:301:MET:HG3	2.20	0.42
45:OG:427:ALA:HA	45:OG:430:LYS:HG2	2.02	0.42
46:OH:87:PRO:HA	46:OH:90:PHE:CD2	2.55	0.42
45:OI:141:VAL:HG11	45:OI:172:TYR:CD2	2.55	0.42
45:OI:185:TYR:HE1	45:OI:398:MET:HB2	1.85	0.42
45:OI:210:TYR:HE1	45:OI:227:LEU:HD21	1.84	0.42
45:OK:107:HIS:ND1	45:OK:107:HIS:O	2.53	0.42
45:OK:141:VAL:HG12	45:OK:171:ILE:O	2.20	0.42
45:OM:206:ASN:HB2	45:OM:210:TYR:HE2	1.84	0.42
46:ON:316:LEU:HB2	46:ON:366:THR:HB	2.01	0.42
45:PA:98:ASP:OD1	45:PA:99:ALA:N	2.53	0.42
45:PA:173:PRO:O	45:PA:390:ARG:NH2	2.53	0.42
46:PB:344:TRP:O	46:PB:345:ILE:HD13	2.19	0.42
45:PC:195:LEU:HD12	45:PC:428:LEU:HD22	2.01	0.42
45:PC:260:VAL:HG13	45:PC:265:ILE:O	2.20	0.42
46:PD:21:TRP:CZ3	46:PD:50:TYR:HB3	2.55	0.42
46:PD:54:ALA:HB3	46:PD:58:ARG:HG2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PD:171:PRO:HB2	46:PD:181:GLU:HG2	2.01	0.42
45:PE:209:ILE:CG2	45:PE:227:LEU:HG	2.50	0.42
46:PF:184:ASN:OD1	46:PF:185:ALA:N	2.53	0.42
45:PG:107:HIS:ND1	45:PG:107:HIS:O	2.53	0.42
45:PG:119:LEU:HG	45:PG:156:ARG:NE	2.35	0.42
46:PJ:210:ILE:O	46:PJ:214:THR:OG1	2.32	0.42
46:PJ:344:TRP:HB3	46:PJ:430:ALA:HB2	2.02	0.42
45:PK:163:LYS:HA	45:PK:163:LYS:HD3	1.97	0.42
46:PL:64:ILE:HA	46:PL:89:ASN:HB3	2.02	0.42
46:PN:9:GLY:HA2	46:PN:66:MET:O	2.20	0.42
46:QB:232:ALA:HB1	46:QB:268:ILE:HD12	2.01	0.42
45:QC:326:LYS:HD3	46:QD:212:PHE:HZ	1.83	0.42
45:QC:345:ASP:N	45:QC:345:ASP:OD2	2.53	0.42
45:QC:414:GLU:HG2	45:QC:417:GLU:OE1	2.20	0.42
46:QD:86:ARG:CZ	46:QD:89:ASN:HB3	2.50	0.42
46:QD:203:ASP:HB3	46:QD:205:GLU:CD	2.44	0.42
45:QE:34:GLY:HA3	45:QE:60:LYS:HG3	2.01	0.42
46:QF:258:ILE:HD11	45:QG:407:TRP:HZ2	1.85	0.42
45:QI:174:SER:HB3	45:QI:177:VAL:HB	2.02	0.42
46:QJ:289:LEU:HD23	46:QJ:289:LEU:HA	1.82	0.42
46:QL:36:TYR:CZ	46:QL:44:LEU:HD11	2.55	0.42
45:QM:67:PHE:HD2	45:QM:92:LEU:HD13	1.85	0.42
46:QN:105:HIS:CE1	46:QN:150:LEU:HD12	2.54	0.42
46:RB:105:HIS:CE1	46:RB:150:LEU:HD12	2.55	0.42
45:RG:60:LYS:HE3	45:RG:60:LYS:HB3	1.86	0.42
45:RG:292:THR:HG21	45:RG:331:SER:HB2	2.02	0.42
46:RH:288:GLU:O	46:RH:291:GLN:HG3	2.19	0.42
45:RK:27:GLU:OE2	45:RK:243:ARG:NH2	2.52	0.42
45:RK:209:ILE:CD1	45:RK:227:LEU:HD12	2.50	0.42
46:RL:135:ILE:HD11	46:RL:152:ILE:HD11	2.01	0.42
46:RL:317:PHE:HD1	46:RL:365:VAL:HG22	1.84	0.42
46:SB:122:LYS:HA	46:SB:122:LYS:HD2	1.85	0.42
46:SB:221:THR:HG22	46:SB:224:ASP:OD1	2.20	0.42
45:SC:317:MET:HB3	45:SC:319:TYR:CE1	2.55	0.42
46:SD:317:PHE:CD1	46:SD:365:VAL:HG22	2.55	0.42
45:SE:402:ARG:NH1	45:SE:405:VAL:HB	2.35	0.42
45:SE:411:GLU:N	45:SE:411:GLU:OE1	2.52	0.42
45:SG:225:THR:O	45:SG:229:ARG:HG3	2.19	0.42
46:SH:136:THR:HG22	46:SH:167:PHE:HB2	2.00	0.42
46:SH:182:PRO:HD2	46:SH:183:TYR:H	1.84	0.42
46:SH:258:ILE:HG13	45:SI:407:TRP:CZ2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SI:223:THR:HG23	45:SI:225:THR:H	1.85	0.42
45:SK:102:ASN:HB3	45:SK:105:ARG:HB2	2.02	0.42
45:SK:386:GLU:O	45:SK:390:ARG:HG3	2.20	0.42
46:SL:131:GLN:NE2	46:SL:251:ARG:HG3	2.35	0.42
45:TC:385:ALA:HA	45:TC:388:PHE:HD2	1.84	0.42
46:TF:256:ASN:ND2	45:TG:181:VAL:HG22	2.35	0.42
46:TF:258:ILE:HG13	46:TF:258:ILE:O	2.20	0.42
45:TG:352:LYS:HD2	46:TH:179:VAL:HG13	2.02	0.42
46:TH:6:HIS:O	46:TH:63:ALA:HA	2.20	0.42
46:TH:21:TRP:CD1	46:TH:85:PHE:HZ	2.37	0.42
45:TI:280:LYS:HA	45:TI:283:HIS:ND1	2.35	0.42
46:TJ:68:LEU:HD13	46:TJ:93:GLY:HA3	2.01	0.42
46:TJ:203:ASP:O	46:TJ:207:LEU:HG	2.19	0.42
45:TM:88:HIS:ND1	45:TM:90:GLU:HG3	2.35	0.42
45:UA:64:ARG:NH1	45:UA:129:CYS:SG	2.93	0.42
46:UB:247:ASN:O	46:UB:252:LYS:NZ	2.31	0.42
46:UB:322:SER:OG	45:UC:221:ARG:CZ	2.68	0.42
46:UB:350:LYS:HD2	45:UC:180:ALA:HA	2.01	0.42
45:UC:252:ILE:HA	45:UC:255:PHE:CD2	2.55	0.42
46:UD:233:MET:O	46:UD:236:VAL:HG12	2.19	0.42
45:UE:135:PHE:CD2	45:UE:157:LEU:HD13	2.55	0.42
46:UL:310:TYR:CD1	46:UL:371:SER:HB2	2.55	0.42
46:VB:113:ILE:HA	46:VB:116:VAL:HG22	2.01	0.42
45:VC:2:ARG:O	45:VC:51:THR:HA	2.20	0.42
45:VC:216:ASN:HB3	45:VC:275:ILE:O	2.20	0.42
45:VC:248:LEU:HD12	45:VC:248:LEU:HA	1.89	0.42
45:VC:258:ASN:ND2	45:VC:352:LYS:HE3	2.35	0.42
45:VC:331:SER:O	45:VC:335:ILE:HG12	2.20	0.42
45:VE:377:MET:SD	45:VE:379:SER:HB3	2.60	0.42
46:VF:139:LEU:HD22	46:VF:188:SER:OG	2.20	0.42
46:VF:238:CYS:SG	46:VF:239:CYS:N	2.93	0.42
45:VG:315:CYS:O	45:VG:351:PHE:HA	2.20	0.42
46:VH:55:THR:HG23	46:WH:283:ALA:HA	2.02	0.42
45:VI:98:ASP:CG	45:VI:100:ALA:H	2.28	0.42
45:VI:153:LEU:O	45:VI:157:LEU:HD23	2.20	0.42
45:VI:326:LYS:HE2	46:VL:220:PRO:C	2.45	0.42
45:VI:356:ASN:OD1	45:VI:357:TYR:N	2.53	0.42
45:VI:377:MET:O	45:VI:378:ILE:HD13	2.20	0.42
46:VJ:156:ARG:NH1	46:VJ:195:ASN:O	2.53	0.42
46:VL:22:GLU:HG2	46:VL:81:PHE:CD1	2.55	0.42
46:VL:274:THR:HG21	46:VL:279:GLN:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VM:71:GLU:OE1	46:VN:247:ASN:ND2	2.53	0.42
45:VM:172:TYR:HB2	45:VM:203:MET:SD	2.59	0.42
45:WA:145:THR:HG22	47:WA:501:GTP:PG	2.60	0.42
45:WA:154:LEU:HD12	45:WA:155:GLU:HG3	2.02	0.42
46:WD:7:ILE:HG22	46:WD:64:ILE:HD13	2.02	0.42
46:WD:41:ASP:OD1	46:WD:42:LEU:N	2.52	0.42
46:WD:139:LEU:HD22	46:WD:188:SER:CB	2.50	0.42
45:WE:345:ASP:OD1	45:WE:439:THR:HG22	2.20	0.42
45:WI:174:SER:HB2	45:WI:177:VAL:HB	2.01	0.42
45:WI:251:ASP:OD2	45:WI:253:THR:HG22	2.20	0.42
45:WK:96:LYS:NZ	46:WL:129:CYS:SG	2.79	0.42
46:WN:6:HIS:O	46:WN:63:ALA:HA	2.19	0.42
45:CE:103:PHE:N	45:CE:408:TYR:HE2	2.18	0.42
2:0B:121:GLN:HG2	22:2M:40:LYS:NZ	2.35	0.41
3:0C:83:SER:H	3:0C:86:LYS:NZ	2.18	0.41
4:0D:206:ASP:O	4:0D:209:LYS:HB2	2.20	0.41
5:0E:29:ARG:HA	5:0E:32:ARG:HG2	2.01	0.41
6:0F:5:GLN:HB2	6:0F:88:ASN:HD22	1.85	0.41
8:0H:363:TRP:O	8:0H:367:LEU:HG	2.20	0.41
8:0H:382:ARG:O	8:0H:386:GLU:OE1	2.38	0.41
8:0H:430:ASN:HD22	8:0H:436:GLN:CD	2.28	0.41
8:0H:431:GLN:OE1	8:0H:431:GLN:HA	2.19	0.41
9:0N:58:VAL:HG23	9:0N:144:ARG:NH2	2.35	0.41
9:0N:69:LYS:HE3	9:0N:72:TYR:OH	2.19	0.41
11:0S:99:GLY:N	46:MB:194:GLU:OE2	2.53	0.41
13:0U:236:LEU:HB2	46:WB:33:THR:HG22	2.01	0.41
1:1A:37:THR:O	1:1A:37:THR:HG23	2.20	0.41
1:1A:138:TRP:NE1	45:AE:77:GLU:OE2	2.53	0.41
4:1D:166:ARG:C	4:1D:167:ILE:HD12	2.45	0.41
8:1H:69:SER:OG	8:1H:72:LEU:HD23	2.19	0.41
8:1H:232:GLN:C	8:1H:234:GLU:N	2.72	0.41
8:1H:382:ARG:NH1	8:1H:383:LYS:HB3	2.35	0.41
19:1J:142:VAL:HG12	45:IE:373:ARG:NH2	2.34	0.41
19:1J:229:VAL:HG23	29:2G:94:ILE:HG21	2.02	0.41
20:1K:130:ILE:HD13	20:1K:130:ILE:HA	1.91	0.41
20:1K:183:TYR:CD1	46:GD:362:LYS:HE2	2.55	0.41
20:1K:192:LYS:HA	20:1K:195:GLU:OE2	2.20	0.41
21:1L:45:ARG:HB3	46:BJ:362:LYS:HE2	2.01	0.41
21:1L:570:PHE:HE2	21:1L:584:PHE:HD1	1.67	0.41
21:1L:631:MET:N	21:1L:631:MET:SD	2.93	0.41
23:1O:142:GLU:HA	23:1O:145:LYS:HZ3	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:1P:198:ARG:NH2	24:1P:199:LYS:HG3	2.34	0.41
10:1Q:102:ARG:HH12	45:AC:430:LYS:HG3	1.85	0.41
10:1Q:164:ARG:NH1	10:1Q:181:PHE:CE2	2.88	0.41
11:1S:118:ASN:HD22	11:1S:118:ASN:C	2.28	0.41
11:1S:192:GLY:O	11:1S:196:LEU:HD23	2.19	0.41
13:1U:340:SER:HB2	13:1U:343:ASP:O	2.20	0.41
13:1U:477:ASP:OD1	13:1U:477:ASP:N	2.52	0.41
14:1V:189:GLU:HA	14:1V:192:GLU:CD	2.45	0.41
26:1W:78:GLN:HG2	45:KE:57:GLY:O	2.19	0.41
26:1W:203:LYS:HE3	26:1W:203:LYS:HB2	1.82	0.41
16:2B:283:ILE:HD12	16:2B:283:ILE:HA	1.89	0.41
27:2C:143:SER:OG	27:2C:144:LYS:N	2.53	0.41
31:2I:98:ILE:HG12	46:GF:337:ASN:ND2	2.35	0.41
31:2I:139:ARG:NH2	46:GD:337:ASN:HB3	2.35	0.41
20:2K:370:LYS:HD3	20:2K:370:LYS:N	2.35	0.41
20:2K:381:THR:O	20:2K:385:LEU:HD13	2.20	0.41
20:2K:455:GLU:OE2	20:2K:455:GLU:HA	2.20	0.41
22:2M:232:PHE:O	22:2M:360:VAL:HG23	2.20	0.41
23:2O:124:SER:HG	23:2O:128:ARG:NH1	2.16	0.41
23:2O:141:LYS:HE2	23:2O:142:GLU:OE1	2.19	0.41
23:2O:149:TYR:O	23:2O:153:VAL:HG23	2.20	0.41
13:2U:221:ASN:HB2	13:2U:223:GLU:CD	2.45	0.41
13:2U:586:ASP:OD1	13:2U:586:ASP:C	2.63	0.41
14:2V:88:LYS:HG3	14:2V:89:ASN:OD1	2.20	0.41
14:2V:170:ARG:O	14:2V:173:GLU:HG3	2.20	0.41
14:2V:218:ALA:HA	14:2V:221:LYS:HE2	2.01	0.41
16:3B:17:GLN:HE21	16:3B:58:VAL:HA	1.85	0.41
16:3B:59:PHE:HZ	45:LG:85:GLN:HG3	1.84	0.41
32:3D:169:GLU:OE2	32:3D:200:THR:OG1	2.37	0.41
5:3E:21:GLN:O	5:3E:25:ARG:HG2	2.20	0.41
30:3H:200:TYR:O	30:3H:204:PHE:HB2	2.19	0.41
21:3L:190:PHE:O	21:3L:194:ILE:HG13	2.20	0.41
23:3O:406:ARG:NH1	46:UH:276:ARG:NH1	2.68	0.41
10:3Q:115:LYS:HD2	45:AG:264:ARG:HH21	1.85	0.41
11:3S:23:SER:OG	13:3U:234:LYS:NZ	2.50	0.41
12:3T:125:GLY:O	45:AK:337:THR:HG23	2.20	0.41
13:3U:446:LYS:HD2	13:3U:476:TRP:CZ3	2.54	0.41
27:4C:211:LYS:HA	27:4C:214:VAL:HG12	2.02	0.41
36:5D:65:THR:HG23	36:5D:68:ASP:H	1.85	0.41
37:5F:123:ARG:O	45:OE:372:MET:HE3	2.20	0.41
37:5G:18:THR:O	37:5G:22:LYS:HG2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5G:154:TYR:CZ	46:NL:35:THR:HG23	2.54	0.41
10:5Q:29:ILE:HG13	10:5Q:34:ILE:HD11	2.01	0.41
34:5R:48:LYS:O	34:5R:49:ASN:OD1	2.38	0.41
35:5S:162:LEU:HG	35:5S:221:THR:HG21	2.02	0.41
39:6F:42:ASN:O	39:6F:46:PHE:HB2	2.20	0.41
34:7R:48:LYS:HG3	34:7R:49:ASN:N	2.34	0.41
34:7R:593:ASP:OD2	34:7R:597:ASN:N	2.53	0.41
46:AD:105:HIS:CD2	46:AD:150:LEU:HB2	2.54	0.41
45:AE:186:ASN:OD1	45:AE:187:SER:N	2.53	0.41
45:AG:377:MET:SD	45:AG:379:SER:HB3	2.60	0.41
46:AJ:173:PRO:HG2	46:AJ:380:ARG:NE	2.35	0.41
45:AK:141:VAL:HG12	45:AK:171:ILE:O	2.19	0.41
45:AK:213:CYS:SG	45:AK:219:ILE:HB	2.59	0.41
46:AL:139:LEU:HD22	46:AL:170:VAL:HG12	2.02	0.41
46:AL:199:CYS:HB3	46:AL:265:PHE:CD2	2.54	0.41
46:AL:290:THR:O	46:AL:293:MET:HB3	2.20	0.41
45:AM:262:TYR:HB2	45:AM:265:ILE:HG12	2.01	0.41
45:AM:425:LEU:HA	45:AM:425:LEU:HD23	1.79	0.41
46:AN:202:ILE:HD11	46:AN:268:ILE:HD11	2.02	0.41
45:BA:141:VAL:HG11	45:BA:172:TYR:CD1	2.54	0.41
45:BA:433:GLU:O	45:BA:437:ILE:HG23	2.20	0.41
45:BE:221:ARG:N	45:BE:222:PRO:HD3	2.34	0.41
45:BE:352:LYS:HD2	46:BH:177:ASP:O	2.20	0.41
45:BE:413:MET:HE2	45:BE:417:GLU:HG2	2.02	0.41
45:BE:419:SER:O	45:BE:423:GLU:OE1	2.38	0.41
46:BF:137:HIS:O	46:BF:168:SER:HA	2.20	0.41
46:BF:318:ARG:HB2	46:BF:364:ALA:HB3	2.02	0.41
45:BG:257:THR:HG22	46:BJ:397:TRP:HZ3	1.85	0.41
46:BH:66:MET:HE3	46:BH:151:LEU:HD13	2.02	0.41
46:BH:348:ASN:O	46:BH:349:ILE:HD13	2.20	0.41
45:BI:11:GLN:NE2	46:BJ:245:GLN:O	2.53	0.41
45:BI:210:TYR:CD1	46:BJ:324:LYS:HE3	2.55	0.41
45:BI:268:MET:N	45:BI:268:MET:SD	2.93	0.41
45:BI:431:ASP:O	45:BI:434:GLU:HG3	2.20	0.41
45:BK:102:ASN:HB3	45:BK:105:ARG:HG3	2.02	0.41
46:BL:1:MET:O	46:BL:2:ARG:HG2	2.19	0.41
45:CA:83:TYR:HB3	45:CA:86:LEU:HD12	2.01	0.41
45:CA:141:VAL:HG12	45:CA:171:ILE:O	2.19	0.41
46:CD:345:ILE:HG23	46:CD:345:ILE:O	2.20	0.41
45:CG:167:LEU:HG	45:CG:200:VAL:HB	2.01	0.41
45:CG:324:VAL:CG1	45:CG:326:LYS:HE2	2.47	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CH:246:LEU:HD11	45:CI:224:TYR:HE2	1.84	0.41
45:CI:268:MET:CG	45:CI:380:ASN:HB3	2.49	0.41
45:CK:47:ASP:O	45:CK:50:ASN:HB3	2.20	0.41
45:CK:107:HIS:ND1	45:CK:107:HIS:O	2.53	0.41
45:CK:167:LEU:HD13	45:CK:200:VAL:HB	2.02	0.41
46:DB:11:GLN:O	46:DB:15:GLN:HG2	2.20	0.41
46:DH:1:MET:N	46:DH:48:ASN:HD21	2.17	0.41
46:DH:101:TRP:CE3	46:DH:187:LEU:HD13	2.54	0.41
45:DK:3:GLU:N	45:DK:3:GLU:OE1	2.53	0.41
46:DL:11:GLN:HA	46:DL:72:THR:HG21	2.02	0.41
46:DL:28:HIS:HA	46:DL:43:GLN:OE1	2.19	0.41
45:DM:5:ILE:HD12	45:DM:125:LEU:HD13	2.03	0.41
45:DM:24:PHE:O	45:DM:27:GLU:HG2	2.20	0.41
45:DM:69:ASP:O	45:DM:94:SER:HA	2.20	0.41
45:DM:319:TYR:CE2	45:DM:328:VAL:HG22	2.54	0.41
45:DM:331:SER:O	45:DM:335:ILE:HG12	2.19	0.41
46:DN:302:ALA:HB3	46:DN:377:MET:HE1	2.02	0.41
45:EA:141:VAL:HG11	45:EA:172:TYR:HD1	1.83	0.41
46:EB:199:CYS:O	46:EB:200:MET:HE2	2.20	0.41
45:EC:210:TYR:HE1	45:EC:227:LEU:HD11	1.85	0.41
46:ED:9:GLY:HA2	46:ED:66:MET:O	2.19	0.41
45:EE:88:HIS:HB3	45:EE:91:GLN:HG2	2.02	0.41
45:EE:328:VAL:HG11	45:EE:353:VAL:HG21	2.02	0.41
45:EE:430:LYS:O	45:EE:433:GLU:HG3	2.20	0.41
45:EI:93:ILE:HG22	45:EI:114:ILE:HD11	2.02	0.41
45:EI:202:VAL:HA	45:EI:268:MET:O	2.20	0.41
46:EJ:302:ALA:HB3	46:EJ:377:MET:HE1	2.02	0.41
45:EK:419:SER:O	45:EK:423:GLU:OE1	2.38	0.41
46:EL:70:PRO:HG3	46:EL:92:PHE:CD2	2.55	0.41
46:EL:108:GLU:O	46:EL:111:GLU:HG3	2.20	0.41
46:FB:16:ILE:HD13	46:FB:226:ASN:OD1	2.20	0.41
46:FB:322:SER:OG	46:FB:323:THR:N	2.53	0.41
46:FB:359:LYS:HA	46:FB:359:LYS:HD2	1.78	0.41
46:FF:395:LEU:O	46:FF:399:THR:HG23	2.20	0.41
45:FG:347:CYS:HA	46:FJ:388:MET:HE1	2.02	0.41
46:FH:19:LYS:HG3	46:FH:226:ASN:HB3	2.02	0.41
46:FH:113:ILE:HA	46:FH:116:VAL:HG12	2.01	0.41
46:FH:178:THR:O	46:FH:181:GLU:HG3	2.21	0.41
46:FH:238:CYS:SG	46:FH:239:CYS:N	2.93	0.41
45:FI:100:ALA:O	46:FJ:255:VAL:HG11	2.20	0.41
46:FN:97:ALA:HB3	46:FN:143:THR:HB	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FN:318:ARG:HB3	46:FN:357:PRO:HA	2.02	0.41
46:GD:226:ASN:ND2	49:GD:501:GDP:HN1	2.11	0.41
46:GF:77:ARG:HH11	46:GF:77:ARG:HG2	1.85	0.41
46:GF:309:ARG:NH2	46:GF:426:GLN:O	2.45	0.41
46:GF:385:PHE:CE2	46:GF:412:GLU:HB3	2.55	0.41
46:GF:399:THR:HA	46:GF:403:MET:O	2.20	0.41
45:GG:344:VAL:HG11	45:GG:346:TRP:CH2	2.55	0.41
46:GJ:222:TYR:O	46:GJ:226:ASN:ND2	2.26	0.41
46:GJ:359:LYS:HE3	46:GJ:359:LYS:HB2	1.88	0.41
45:GK:104:ALA:HB2	45:GK:413:MET:HE3	2.01	0.41
45:GK:135:PHE:HB2	45:GK:166:LYS:HG2	2.02	0.41
46:GL:239:CYS:SG	46:GL:247:ASN:HA	2.60	0.41
46:HB:201:VAL:HG23	46:HB:301:CYS:SG	2.60	0.41
45:HC:32:PRO:HB3	45:HC:83:TYR:HE1	1.84	0.41
45:HC:426:ALA:O	45:HC:429:GLU:HG3	2.20	0.41
46:HD:18:ALA:HB3	46:HD:19:LYS:HZ2	1.84	0.41
45:HE:296:PHE:HD2	45:HE:335:ILE:HD12	1.85	0.41
45:HE:397:LEU:HD23	46:HF:346:PRO:HG3	2.01	0.41
46:HF:99:ASN:HA	46:HF:142:GLY:HA3	2.02	0.41
45:HG:222:PRO:HG2	46:HH:324:LYS:CD	2.50	0.41
46:HH:139:LEU:HD13	46:HH:168:SER:OG	2.19	0.41
45:HI:414:GLU:OE2	45:HI:417:GLU:N	2.53	0.41
46:HL:99:ASN:HA	46:HL:142:GLY:H	1.84	0.41
45:IC:98:ASP:OD1	45:IC:99:ALA:N	2.52	0.41
45:IC:368:LEU:HD12	45:IC:368:LEU:H	1.85	0.41
45:IG:155:GLU:OE2	45:IG:156:ARG:NH2	2.53	0.41
45:IG:336:LYS:HE3	45:IG:351:PHE:HE1	1.85	0.41
45:IG:430:LYS:O	45:IG:433:GLU:HG3	2.20	0.41
46:IH:32:PRO:HA	46:IH:84:LEU:HD11	2.02	0.41
45:II:52:PHE:CZ	45:II:239:THR:HG21	2.55	0.41
45:II:69:ASP:HB3	45:II:75:ILE:HD11	2.01	0.41
45:II:109:THR:HB	45:II:110:ILE:HD12	2.02	0.41
46:IJ:280:GLN:HG2	46:IJ:281:TYR:HD2	1.85	0.41
46:IL:19:LYS:HG3	46:IL:226:ASN:HB3	2.02	0.41
45:IM:207:GLU:OE1	45:IM:207:GLU:N	2.49	0.41
46:IN:318:ARG:NE	46:IN:356:ILE:O	2.40	0.41
45:JC:56:THR:HG21	45:JC:60:LYS:HG2	2.02	0.41
45:JC:276:ILE:HD13	45:JC:281:ALA:HA	2.02	0.41
46:JD:190:HIS:ND1	46:JD:411:ALA:HA	2.34	0.41
45:JI:395:PHE:CD2	45:JI:422:ARG:HD3	2.55	0.41
45:JK:101:ASN:HA	45:JK:144:GLY:H	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JK:211:ASP:O	45:JK:215:ARG:HD3	2.20	0.41
45:JM:107:HIS:ND1	45:JM:107:HIS:O	2.53	0.41
45:JM:169:PHE:HA	45:JM:202:VAL:HG22	2.02	0.41
45:KC:404:PHE:CD1	46:KD:259:PRO:HA	2.55	0.41
46:KD:238:CYS:HB2	46:KD:318:ARG:HH11	1.85	0.41
46:KD:420:SER:O	46:KD:423:GLN:HG3	2.19	0.41
46:KF:20:PHE:HA	46:KF:230:SER:OG	2.20	0.41
46:KF:40:SER:OG	46:KF:41:ASP:N	2.53	0.41
45:KI:210:TYR:CE1	45:KI:227:LEU:HD11	2.55	0.41
45:KK:309:HIS:HA	45:NK:282:TYR:HE2	1.84	0.41
45:KM:384:ILE:O	45:KM:387:VAL:HG22	2.20	0.41
46:KN:67:ASP:OD1	46:KN:68:LEU:N	2.48	0.41
46:KN:233:MET:O	46:KN:236:VAL:HG12	2.20	0.41
46:LD:189:VAL:HG21	46:LD:378:PHE:CE2	2.55	0.41
45:LG:256:GLN:H	45:LG:256:GLN:HG3	1.67	0.41
45:LG:383:ALA:O	45:LG:386:GLU:HG2	2.20	0.41
45:LM:385:ALA:HA	45:LM:388:PHE:HD2	1.84	0.41
46:LN:12:CYS:HB2	49:LN:501:GDP:C8	2.55	0.41
45:MC:188:ILE:HD11	45:MC:391:LEU:HB3	2.02	0.41
45:ME:252:ILE:HD12	45:ME:252:ILE:H	1.85	0.41
46:MF:318:ARG:HH11	46:MF:358:PRO:HG3	1.83	0.41
45:MG:150:GLY:O	45:MG:154:LEU:HG	2.20	0.41
46:MN:285:THR:HB	46:MN:287:PRO:HD2	2.03	0.41
46:MN:293:MET:HE1	46:MN:315:ALA:CB	2.49	0.41
45:NA:120:ASP:HA	45:NA:123:ARG:HG2	2.02	0.41
45:NA:317:MET:HE2	45:NA:317:MET:HB2	1.91	0.41
45:NC:9:VAL:HG22	45:NC:146:GLY:HA2	2.02	0.41
45:NC:426:ALA:O	45:NC:430:LYS:HG2	2.20	0.41
46:ND:111:GLU:OE1	46:ND:111:GLU:N	2.50	0.41
46:NF:65:LEU:HD11	46:NF:85:PHE:CD2	2.55	0.41
46:NH:64:ILE:HD12	46:NH:120:VAL:HG12	2.02	0.41
46:NH:109:GLY:O	46:NH:113:ILE:HG23	2.19	0.41
45:NK:229:ARG:NH1	45:NK:366:GLY:HA2	2.35	0.41
46:NL:396:HIS:CD2	46:NL:397:TRP:HD1	2.38	0.41
45:NM:21:TRP:CE2	45:NM:65:ALA:HB2	2.55	0.41
45:NM:330:ALA:O	45:NM:334:THR:HG23	2.21	0.41
46:NN:54:ALA:HA	46:ON:283:ALA:HB2	2.01	0.41
46:OB:309:ARG:NH2	46:OB:342:VAL:HG23	2.35	0.41
45:OC:172:TYR:CE2	45:OC:203:MET:HE1	2.55	0.41
45:OC:223:THR:HG23	45:OC:225:THR:H	1.85	0.41
45:OE:224:TYR:CD1	47:OF:501:GTP:C6	3.07	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OG:219:ILE:HG22	45:OG:222:PRO:HD3	2.02	0.41
45:OI:287:SER:HB3	45:OI:290:GLU:OE1	2.20	0.41
45:OI:297:GLU:CD	45:OI:298:PRO:HD2	2.45	0.41
46:OJ:287:PRO:HA	46:OJ:290:THR:HG22	2.02	0.41
45:PA:260:VAL:HG13	45:PA:265:ILE:O	2.20	0.41
45:PC:119:LEU:HD13	45:PC:156:ARG:CZ	2.50	0.41
45:PE:287:SER:N	45:PE:290:GLU:OE2	2.31	0.41
45:PE:313:MET:HB2	45:PE:380:ASN:C	2.45	0.41
45:PG:145:THR:HG22	47:PG:501:GTP:PG	2.60	0.41
46:PH:392:LYS:HA	46:PH:395:LEU:HD12	2.01	0.41
45:PM:33:ASP:OD2	45:PM:34:GLY:N	2.53	0.41
46:PN:20:PHE:HA	46:PN:230:SER:HB2	2.01	0.41
45:QA:68:LEU:HD21	45:QA:118:CYS:SG	2.61	0.41
46:QB:21:TRP:HH2	46:QB:50:TYR:HB3	1.85	0.41
46:QB:22:GLU:HG3	46:QB:81:PHE:CD2	2.55	0.41
46:QB:152:ILE:HG12	46:QB:164:MET:HE3	2.02	0.41
46:QH:22:GLU:HG2	46:QH:81:PHE:CD1	2.55	0.41
45:QI:66:VAL:HG21	45:QI:122:ILE:HD11	2.02	0.41
45:QI:119:LEU:HG	45:QI:156:ARG:NE	2.25	0.41
46:QJ:83:GLN:OE1	46:QJ:83:GLN:N	2.41	0.41
45:QK:430:LYS:O	45:QK:433:GLU:HG3	2.20	0.41
45:QM:55:GLU:OE1	45:QM:61:HIS:NE2	2.52	0.41
45:RA:19:ALA:HA	45:RA:22:GLU:OE1	2.19	0.41
45:RA:71:GLU:HA	45:RA:72:PRO:HD3	1.91	0.41
45:RA:203:MET:HG3	45:RA:384:ILE:HD11	2.01	0.41
45:RC:20:CYS:HA	45:RC:232:ALA:HB1	2.02	0.41
45:RC:430:LYS:O	45:RC:434:GLU:HG2	2.20	0.41
46:RD:303:ALA:HA	46:RD:376:GLU:OE2	2.20	0.41
46:RF:253:LEU:HD12	46:RF:257:LEU:HD13	2.01	0.41
46:RH:318:ARG:HG2	46:RH:354:CYS:SG	2.60	0.41
45:RI:185:TYR:O	45:RI:189:LEU:HD13	2.20	0.41
46:RJ:2:ARG:N	46:RJ:129:CYS:SG	2.78	0.41
46:RL:114:ASP:N	46:RL:114:ASP:OD1	2.51	0.41
46:RL:378:PHE:HA	46:RL:381:VAL:HG12	2.01	0.41
45:RM:211:ASP:HA	45:RM:214:ARG:NH1	2.35	0.41
46:RN:10:GLY:O	46:RN:14:ASN:ND2	2.53	0.41
46:SD:292:GLN:OE1	46:SD:298:ASN:ND2	2.53	0.41
46:SF:16:ILE:HD11	49:SF:501:GDP:HN21	1.84	0.41
46:SF:238:CYS:SG	46:SF:239:CYS:N	2.93	0.41
46:SF:393:ALA:HB1	46:SF:394:PHE:CD1	2.55	0.41
45:SI:171:ILE:HA	45:SI:204:LEU:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SK:102:ASN:ND2	45:SK:411:GLU:OE2	2.34	0.41
46:SL:150:LEU:O	46:SL:154:LYS:HG2	2.19	0.41
46:SL:169:VAL:HG22	46:SL:202:ILE:HB	2.01	0.41
46:SL:303:ALA:HA	46:SL:376:GLU:OE2	2.20	0.41
46:SL:318:ARG:HG2	46:SL:357:PRO:HA	2.00	0.41
45:TA:210:TYR:CE1	45:TA:227:LEU:HD11	2.55	0.41
46:TB:26:ASP:O	46:TB:359:LYS:NZ	2.46	0.41
46:TB:238:CYS:O	46:TB:241:ARG:NH1	2.53	0.41
46:TB:294:PHE:CE1	46:TB:333:VAL:HG21	2.55	0.41
45:TC:82:THR:HG23	45:TC:83:TYR:CD1	2.55	0.41
45:TC:119:LEU:O	45:TC:123:ARG:HG2	2.19	0.41
45:TC:331:SER:O	45:TC:335:ILE:HG12	2.20	0.41
46:TD:186:THR:HA	46:TD:415:MET:HE1	2.01	0.41
46:TD:286:VAL:HG22	46:TD:363:MET:HE1	2.02	0.41
45:TE:152:LEU:HA	45:TE:155:GLU:OE2	2.20	0.41
45:TE:171:ILE:HG23	45:TE:204:LEU:O	2.20	0.41
46:TF:139:LEU:HD22	46:TF:170:VAL:HG12	2.01	0.41
45:TG:102:ASN:OD1	45:TG:105:ARG:N	2.50	0.41
45:TG:205:ASP:OD1	45:TG:303:ALA:HA	2.20	0.41
45:TI:419:SER:O	45:TI:422:ARG:HB2	2.20	0.41
46:TJ:359:LYS:HA	46:TJ:359:LYS:HD3	1.88	0.41
45:TK:174:SER:OG	45:TK:207:GLU:HB2	2.20	0.41
46:TL:165:GLU:HG2	46:TL:200:MET:HE1	2.01	0.41
45:TM:75:ILE:HG23	45:TM:92:LEU:HB3	2.01	0.41
45:UA:260:VAL:HG13	45:UA:265:ILE:O	2.19	0.41
46:UB:200:MET:HG2	46:UB:268:ILE:HD11	2.02	0.41
46:UB:260:PHE:HE2	45:UC:403:ALA:HA	1.85	0.41
46:UB:324:LYS:O	46:UB:327:ASP:OD1	2.38	0.41
45:UC:2:ARG:HG3	45:UC:133:GLN:NE2	2.33	0.41
45:UC:268:MET:N	45:UC:268:MET:SD	2.93	0.41
45:UE:141:VAL:HG11	45:UE:172:TYR:CD2	2.55	0.41
46:UF:251:ARG:HD3	45:UG:105:ARG:NH1	2.35	0.41
46:UH:234:SER:O	46:UH:241:ARG:NH2	2.53	0.41
46:UH:237:THR:HG22	46:UH:250:LEU:HD21	2.01	0.41
45:UI:88:HIS:HE1	45:UI:90:GLU:HG2	1.81	0.41
45:UI:257:THR:HG21	46:UJ:98:GLY:O	2.20	0.41
45:UI:317:MET:O	45:UI:318:MET:HE2	2.19	0.41
45:UI:395:PHE:HZ	45:UI:418:PHE:HB3	1.85	0.41
46:UJ:108:GLU:HA	46:UJ:111:GLU:OE2	2.21	0.41
45:UK:287:SER:O	45:UK:291:ILE:HG13	2.20	0.41
45:UK:326:LYS:HE3	46:UL:220:PRO:HD2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UK:329:ASN:O	45:UK:332:ILE:HG22	2.19	0.41
46:UL:2:ARG:NH2	46:UL:240:LEU:O	2.53	0.41
46:UL:86:ARG:HG3	46:UL:88:ASP:N	2.35	0.41
46:UN:210:ILE:HD11	46:UN:299:MET:O	2.19	0.41
45:VA:5:ILE:HD11	45:VA:135:PHE:CE1	2.55	0.41
45:VA:18:ASN:O	45:VA:22:GLU:OE1	2.37	0.41
45:VC:89:PRO:HD2	45:WC:280:LYS:HD3	2.02	0.41
45:VE:56:THR:HG23	45:VE:58:ALA:H	1.85	0.41
45:VE:88:HIS:CE1	45:VE:90:GLU:HB3	2.55	0.41
45:VE:433:GLU:O	45:VE:437:ILE:HG12	2.20	0.41
45:VG:150:GLY:O	45:VG:154:LEU:HD23	2.20	0.41
45:VG:280:LYS:HG3	45:VG:280:LYS:O	2.20	0.41
45:VG:318:MET:HB3	45:VG:376:CYS:SG	2.60	0.41
45:VG:329:ASN:HA	45:VG:332:ILE:HG22	2.02	0.41
45:VG:384:ILE:O	45:VG:387:VAL:HG22	2.20	0.41
46:VJ:222:TYR:CD1	49:VJ:501:GDP:C6	3.07	0.41
45:VK:183:GLU:N	45:VK:183:GLU:OE1	2.35	0.41
46:VL:175:VAL:HG23	46:VL:175:VAL:O	2.20	0.41
46:VL:395:LEU:O	46:VL:399:THR:HG23	2.20	0.41
45:VM:60:LYS:HD3	45:WM:283:HIS:CG	2.54	0.41
45:VM:223:THR:HG23	45:VM:225:THR:H	1.85	0.41
46:VN:294:PHE:CE1	46:VN:333:VAL:HG21	2.55	0.41
45:WA:259:LEU:HD23	45:WA:268:MET:HE1	2.01	0.41
45:WC:18:ASN:O	45:WC:22:GLU:OE1	2.38	0.41
45:WC:307:PRO:HD2	45:WC:308:ARG:HH12	1.85	0.41
45:WC:430:LYS:HA	45:WC:433:GLU:OE2	2.20	0.41
46:WD:317:PHE:CD2	46:WD:365:VAL:HG22	2.55	0.41
46:WD:344:TRP:HB3	46:WD:430:ALA:HB2	2.02	0.41
46:WF:167:PHE:CE2	46:WF:200:MET:HG3	2.55	0.41
45:WG:73:THR:O	45:WG:77:GLU:OE1	2.37	0.41
45:WM:75:ILE:HG22	45:WM:79:ARG:NH1	2.35	0.41
45:DC:103:PHE:H	45:DC:408:TYR:HE1	1.66	0.41
45:DC:226:ASN:ND2	45:DC:367:ASP:OD2	2.53	0.41
45:DC:411:GLU:OE1	45:DC:411:GLU:N	2.52	0.41
2:0B:215:MET:HA	45:JI:245:ASP:OD2	2.19	0.41
3:0C:60:ILE:HD12	3:0C:60:ILE:H	1.85	0.41
6:0F:196:LYS:HE2	6:0F:196:LYS:HA	2.02	0.41
7:0G:119:ILE:HG22	7:0G:120:TYR:N	2.35	0.41
10:0Q:68:THR:OG1	10:0Q:152:LEU:HG	2.20	0.41
12:0T:65:ARG:NH2	46:MB:111:GLU:N	2.67	0.41
13:0U:381:TRP:CG	13:0U:387:ARG:HH21	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:0U:431:VAL:HG12	13:0U:443:ALA:HA	2.01	0.41
15:0X:7:SER:OG	15:0X:10:ARG:HG2	2.19	0.41
15:0X:24:ALA:HB1	15:0X:27:PHE:CZ	2.55	0.41
16:1B:70:ASP:OD1	16:1B:71:THR:N	2.53	0.41
16:1B:343:ALA:HA	22:1M:86:GLN:OE1	2.20	0.41
16:1B:354:ASP:N	16:1B:354:ASP:OD1	2.52	0.41
5:1E:106:LYS:HD2	5:1E:106:LYS:C	2.44	0.41
5:1E:147:LEU:HD13	5:1E:147:LEU:HA	1.92	0.41
8:1H:302:GLN:HA	8:1H:306:ARG:NH2	2.35	0.41
19:1J:122:ARG:NH1	45:IE:217:LEU:O	2.53	0.41
19:1J:175:HIS:HE1	46:HH:52:ASN:HA	1.85	0.41
20:1K:120:LYS:HA	20:1K:123:LYS:HE3	2.01	0.41
21:1L:825:GLU:HA	34:7R:100:GLN:HE22	1.84	0.41
24:1P:101:ARG:NE	24:1P:104:LYS:HZ3	2.14	0.41
24:1P:123:ASP:OD2	23:3O:341:LYS:NZ	2.50	0.41
25:1R:180:PHE:HB2	25:1R:185:PHE:CE2	2.54	0.41
25:1R:400:PRO:HB2	46:ED:218:THR:CG2	2.50	0.41
11:1S:178:LEU:HG	11:1S:190:ILE:HG13	2.00	0.41
13:1U:78:MET:HA	13:1U:103:VAL:HG22	2.00	0.41
14:1V:231:LYS:HG3	14:1V:233:ASP:OD1	2.20	0.41
20:2K:280:ARG:HE	20:2K:280:ARG:HB3	1.61	0.41
20:2K:429:HIS:CE1	45:GE:282:TYR:CE2	3.08	0.41
20:2K:437:MET:SD	45:GE:279:GLU:HA	2.60	0.41
21:2L:294:ASP:OD2	21:2L:341:TYR:OH	2.31	0.41
21:2L:428:GLN:O	21:2L:429:PHE:HB3	2.20	0.41
21:2L:524:ARG:HH22	46:BN:357:PRO:C	2.27	0.41
21:2L:560:ASP:OD1	21:2L:561:ALA:N	2.54	0.41
21:2L:877:PHE:CE1	21:2L:896:ILE:HD13	2.54	0.41
22:2M:41:ASN:O	22:2M:43:LYS:HG2	2.20	0.41
23:2O:255:SER:HA	23:2O:258:LYS:HZ2	1.84	0.41
25:2R:60:LYS:HE3	25:2R:85:THR:HG22	2.01	0.41
12:2T:69:ALA:HB3	12:2T:111:VAL:HG13	2.01	0.41
13:2U:64:SER:OG	13:2U:68:LYS:HB3	2.20	0.41
14:2V:109:HIS:CD2	14:2V:111:SER:HB3	2.55	0.41
26:2W:217:ARG:NH1	27:4C:183:SER:HA	2.34	0.41
15:2X:109:GLN:O	15:2X:113:LEU:HD23	2.21	0.41
16:3B:217:LYS:HG3	16:3B:261:CYS:SG	2.60	0.41
27:3C:172:SER:O	27:3C:175:GLU:HG3	2.20	0.41
27:3C:187:PHE:O	27:3C:191:LEU:HD23	2.20	0.41
27:3C:285:ILE:HG23	27:3C:289:GLU:OE2	2.20	0.41
21:3L:217:ASN:OD1	21:3L:218:VAL:N	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:3Q:104:ARG:HH22	10:3Q:157:HIS:CD2	2.38	0.41
25:3R:259:LEU:HD23	25:3R:275:LEU:CD1	2.49	0.41
11:3S:178:LEU:HD13	11:3S:190:ILE:HG13	2.02	0.41
12:3T:71:THR:OG1	12:3T:72:PHE:N	2.53	0.41
12:3T:149:ASN:OD1	12:3T:150:ALA:N	2.52	0.41
12:3T:159:LEU:HD12	12:3T:159:LEU:HA	1.92	0.41
12:3T:213:LEU:HD13	12:3T:218:PHE:CE2	2.55	0.41
13:3U:68:LYS:HG3	13:3U:69:TYR:HD1	1.85	0.41
14:3V:41:HIS:ND1	14:3V:42:THR:HG23	2.35	0.41
14:3V:88:LYS:HA	14:3V:88:LYS:HD3	1.87	0.41
14:3V:142:ILE:HG22	14:3V:143:LEU:HD22	2.01	0.41
27:4C:108:LEU:HD22	27:4C:167:ARG:HE	1.85	0.41
27:4C:179:LEU:HD12	27:4C:179:LEU:HA	1.87	0.41
10:4Q:79:ILE:O	10:4Q:80:ILE:HD13	2.20	0.41
34:4R:246:GLN:HG3	45:BE:58:ALA:HB1	2.02	0.41
35:4S:187:LEU:O	35:4S:190:MET:HG2	2.20	0.41
36:5A:49:LYS:HB3	36:5A:49:LYS:HE2	1.68	0.41
36:5C:47:SER:O	36:5C:49:LYS:HD3	2.20	0.41
36:5C:129:GLY:HA2	46:NL:361:LEU:HD22	2.02	0.41
37:5E:96:TYR:O	37:5E:100:VAL:HG22	2.20	0.41
37:5G:201:THR:HA	37:5G:204:LYS:HE3	2.01	0.41
34:5R:478:ASN:ND2	34:5R:479:PRO:HD2	2.35	0.41
35:5S:211:ASN:HB3	35:5S:217:LEU:HD11	2.01	0.41
40:6G:137:GLN:HB2	45:VG:338:LYS:NZ	2.35	0.41
40:6G:144:LYS:HA	40:6G:144:LYS:HD2	1.90	0.41
40:6G:245:SER:OG	40:6G:248:LYS:HD2	2.20	0.41
41:6H:348:ASN:HA	45:FI:82:THR:HG21	2.01	0.41
34:6R:242:ASN:O	45:BM:58:ALA:HB2	2.20	0.41
34:7R:78:ILE:HD12	34:7R:78:ILE:H	1.86	0.41
34:7R:553:ILE:HA	34:7R:556:ILE:HG22	2.01	0.41
45:AA:398:MET:CE	46:AB:346:PRO:HD2	2.49	0.41
45:AC:167:LEU:HG	45:AC:200:VAL:HB	2.01	0.41
45:AC:384:ILE:O	45:AC:387:VAL:HG22	2.20	0.41
46:AD:131:GLN:O	46:AD:163:ILE:HG12	2.20	0.41
45:AE:104:ALA:HB2	45:AE:413:MET:HE2	2.01	0.41
45:AE:164:LYS:HA	45:AE:164:LYS:HD3	1.78	0.41
45:AG:407:TRP:HH2	46:AH:254:ALA:HB1	1.85	0.41
46:AH:73:MET:CE	46:AH:92:PHE:HB3	2.50	0.41
45:AI:176:GLN:NE2	45:AI:177:VAL:HG23	2.35	0.41
45:AI:377:MET:SD	45:AI:379:SER:HB3	2.61	0.41
46:AL:203:ASP:OD2	46:AL:377:MET:HE1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AL:289:LEU:HD23	46:AL:289:LEU:HA	1.79	0.41
45:AM:56:THR:HG21	45:AM:60:LYS:HG2	2.03	0.41
45:BA:430:LYS:O	45:BA:433:GLU:HG2	2.20	0.41
46:BB:6:HIS:O	46:BB:63:ALA:HA	2.20	0.41
46:BB:238:CYS:SG	46:BB:318:ARG:HD3	2.60	0.41
45:BC:172:TYR:CE2	45:BC:203:MET:HE1	2.55	0.41
45:BE:262:TYR:OH	46:BH:391:ARG:O	2.30	0.41
46:BF:6:HIS:CD2	46:BF:6:HIS:C	2.98	0.41
46:BH:20:PHE:O	46:BH:24:ILE:HG12	2.19	0.41
46:BJ:215:LEU:HD21	46:BJ:273:LEU:HD12	2.02	0.41
46:BL:16:ILE:HD13	46:BL:226:ASN:OD1	2.20	0.41
46:BL:274:THR:HB	46:BL:282:ARG:HH11	1.83	0.41
45:BM:100:ALA:HA	46:BN:252:LYS:CG	2.50	0.41
45:BM:243:ARG:HG3	45:BM:244:PHE:CD2	2.55	0.41
45:BM:319:TYR:HE1	45:BM:328:VAL:HG13	1.84	0.41
46:BN:186:THR:HA	46:BN:189:VAL:HG12	2.02	0.41
46:BN:201:VAL:HG23	46:BN:301:CYS:SG	2.60	0.41
46:CB:238:CYS:SG	46:CB:318:ARG:HD2	2.60	0.41
46:CB:285:THR:OG1	46:CB:287:PRO:HD2	2.20	0.41
46:CD:141:GLY:HA3	49:CD:501:GDP:PB	2.60	0.41
46:CD:345:ILE:HG13	45:CE:398:MET:SD	2.60	0.41
46:CF:201:VAL:HG22	46:CF:266:PHE:O	2.20	0.41
46:CH:8:GLN:HE22	46:CH:17:GLY:HA3	1.84	0.41
45:CI:121:ARG:NH1	45:CI:124:LYS:HG3	2.35	0.41
46:CL:232:ALA:HB1	46:CL:268:ILE:HD12	2.02	0.41
45:CM:174:SER:HB3	45:CM:207:GLU:OE2	2.20	0.41
45:CM:267:PHE:O	45:CM:268:MET:HE2	2.20	0.41
46:CN:69:GLU:HA	46:CN:70:PRO:HD3	1.88	0.41
46:CN:273:LEU:O	46:CN:292:GLN:NE2	2.44	0.41
46:DB:391:ARG:HA	46:DB:391:ARG:HD2	1.80	0.41
45:DE:71:GLU:HA	45:DE:72:PRO:HD3	1.90	0.41
45:DI:288:VAL:O	45:DI:291:ILE:HG22	2.20	0.41
45:DI:387:VAL:HG12	45:DI:390:ARG:HH22	1.84	0.41
45:DK:101:ASN:HA	45:DK:144:GLY:H	1.84	0.41
45:DK:169:PHE:CD1	45:DK:202:VAL:HB	2.55	0.41
45:EA:319:TYR:CE2	45:EA:328:VAL:HG22	2.55	0.41
46:EB:363:MET:HE3	46:EB:363:MET:HA	2.01	0.41
45:EC:97:GLU:O	45:EC:110:ILE:HD12	2.20	0.41
45:EC:137:VAL:HG12	45:EC:167:LEU:O	2.20	0.41
45:EE:194:LEU:O	45:EE:198:THR:HG22	2.19	0.41
45:EE:233:GLN:HE21	45:EE:233:GLN:HB3	1.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EE:278:ALA:HA	45:EE:281:ALA:HB3	2.01	0.41
46:EF:293:MET:HE1	46:EF:315:ALA:CB	2.49	0.41
46:EH:175:VAL:O	46:EH:175:VAL:HG23	2.20	0.41
45:EI:206:ASN:OD1	47:EI:501:GTP:N2	2.51	0.41
45:EI:277:SER:O	45:EI:281:ALA:N	2.53	0.41
46:EJ:20:PHE:CD1	46:EJ:233:MET:HE2	2.56	0.41
46:EJ:258:ILE:HG13	46:EJ:258:ILE:O	2.20	0.41
45:EK:287:SER:O	45:EK:291:ILE:HG23	2.20	0.41
45:EK:311:LYS:HE3	45:EK:342:GLN:HG3	2.02	0.41
46:EL:16:ILE:HD13	46:EL:226:ASN:OD1	2.19	0.41
46:EL:271:ALA:HB1	46:EL:272:PRO:HA	2.01	0.41
45:EM:107:HIS:ND1	45:EM:107:HIS:O	2.53	0.41
45:EM:260:VAL:HG13	45:EM:265:ILE:O	2.20	0.41
45:EM:331:SER:O	45:EM:335:ILE:HG12	2.20	0.41
46:EN:274:THR:HB	46:EN:282:ARG:NH1	2.35	0.41
45:FA:398:MET:HE1	46:FB:345:ILE:HD12	2.02	0.41
45:FC:208:ALA:O	45:FC:212:ILE:HG12	2.20	0.41
46:FF:310:TYR:HB2	46:FF:341:PHE:CD2	2.55	0.41
45:FI:74:VAL:HA	45:FI:77:GLU:OE1	2.20	0.41
46:FJ:8:GLN:HE21	46:FJ:14:ASN:HA	1.85	0.41
45:FK:21:TRP:HZ2	45:FK:65:ALA:HB2	1.85	0.41
45:FK:141:VAL:HG21	45:FK:172:TYR:HD1	1.85	0.41
45:FK:217:LEU:HD22	45:FK:367:ASP:HB3	2.02	0.41
45:FK:326:LYS:HE2	46:FN:212:PHE:HZ	1.85	0.41
45:FM:274:PRO:HG3	45:FM:286:LEU:HD12	2.02	0.41
46:FN:49:VAL:HG21	46:FN:241:ARG:HG2	2.01	0.41
46:FN:262:ARG:NH1	46:FN:421:GLU:OE1	2.54	0.41
45:GA:102:ASN:HB3	45:GA:105:ARG:HE	1.85	0.41
46:GB:36:TYR:HB2	46:GB:59:TYR:CE1	2.55	0.41
46:GD:20:PHE:HA	46:GD:230:SER:HB2	2.02	0.41
46:GD:114:ASP:N	46:GD:114:ASP:OD1	2.52	0.41
46:GD:295:ASP:OD1	46:GD:297:LYS:HG2	2.19	0.41
46:GH:268:ILE:O	46:GH:300:MET:HB2	2.20	0.41
45:GI:220:GLU:HG2	45:GI:221:ARG:HG2	2.02	0.41
46:GJ:60:VAL:HG21	46:HJ:281:TYR:OH	2.20	0.41
46:GJ:378:PHE:HB3	46:GJ:415:MET:HE3	2.01	0.41
45:GK:326:LYS:NZ	46:GN:220:PRO:O	2.52	0.41
46:GL:274:THR:HG21	46:GL:279:GLN:HA	2.02	0.41
45:GM:67:PHE:HB2	45:GM:92:LEU:HG	2.01	0.41
45:GM:88:HIS:O	45:GM:91:GLN:HG2	2.20	0.41
45:GM:212:ILE:HD11	45:GM:300:ASN:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GN:11:GLN:O	46:GN:15:GLN:HG2	2.20	0.41
46:GN:91:VAL:HG21	46:GN:116:VAL:HB	2.01	0.41
45:HA:156:ARG:HD3	45:HA:156:ARG:HA	1.92	0.41
45:HA:326:LYS:HD2	46:HD:208:TYR:CD1	2.54	0.41
45:HA:352:LYS:NZ	46:HD:178:THR:HG23	2.35	0.41
45:HC:107:HIS:ND1	45:HC:107:HIS:O	2.53	0.41
45:HC:434:GLU:O	45:HC:437:ILE:HG12	2.20	0.41
45:HE:226:ASN:ND2	45:HE:367:ASP:OD2	2.53	0.41
45:HE:235:ILE:O	45:HE:239:THR:HG22	2.21	0.41
46:HF:34:GLY:O	46:HF:58:ARG:HA	2.20	0.41
45:HG:201:ALA:HB3	45:HG:267:PHE:HD1	1.85	0.41
46:HJ:105:HIS:CD2	46:HJ:150:LEU:HB2	2.55	0.41
46:HJ:345:ILE:HG23	46:HJ:345:ILE:O	2.20	0.41
46:HL:66:MET:HE2	46:HL:66:MET:HB2	1.94	0.41
46:HN:322:SER:O	46:HN:325:GLU:HG3	2.20	0.41
45:IA:117:LEU:O	45:IA:121:ARG:HG2	2.21	0.41
46:IB:21:TRP:CH2	46:IB:50:TYR:HB3	2.54	0.41
45:IC:88:HIS:CE1	45:IC:90:GLU:HG3	2.55	0.41
45:IC:268:MET:HE3	45:IC:268:MET:HB3	1.98	0.41
46:ID:114:ASP:O	46:ID:117:LEU:HG	2.19	0.41
46:ID:318:ARG:CZ	46:ID:358:PRO:HG3	2.50	0.41
45:IE:377:MET:SD	45:IE:379:SER:HB3	2.61	0.41
46:IF:271:ALA:HB3	46:IF:365:VAL:HB	2.02	0.41
45:IG:171:ILE:HG23	45:IG:204:LEU:O	2.20	0.41
45:IG:200:VAL:HG13	45:IG:268:MET:CE	2.50	0.41
46:IH:290:THR:O	46:IH:293:MET:HG2	2.20	0.41
46:IJ:69:GLU:HA	46:IJ:70:PRO:HD3	1.88	0.41
46:IJ:122:LYS:HE3	46:IJ:122:LYS:HB2	1.77	0.41
46:IL:97:ALA:HA	46:IL:103:LYS:HE2	2.01	0.41
46:IN:109:GLY:C	46:IN:147:MET:HE3	2.45	0.41
45:JA:71:GLU:HA	45:JA:72:PRO:HD3	1.88	0.41
46:JB:9:GLY:HA2	46:JB:66:MET:O	2.20	0.41
45:JC:430:LYS:HE2	45:JC:430:LYS:HB2	1.82	0.41
46:JD:149:THR:HA	46:JD:152:ILE:HD12	2.02	0.41
45:JE:296:PHE:HE2	45:JE:335:ILE:HG21	1.84	0.41
45:JI:28:HIS:NE2	45:JI:48:ALA:O	2.50	0.41
45:JI:149:LEU:O	45:JI:153:LEU:HD23	2.20	0.41
46:JJ:177:ASP:OD1	49:JJ:501:GDP:O3'	2.27	0.41
45:JK:117:LEU:O	45:JK:121:ARG:HG2	2.19	0.41
46:JL:330:MET:HB3	46:JL:349:ILE:HD12	2.02	0.41
46:JN:389:PHE:CE1	46:JN:395:LEU:HD21	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KA:154:LEU:HD13	45:KA:197:HIS:HB2	2.02	0.41
46:KB:134:GLN:HA	46:KB:165:GLU:O	2.21	0.41
45:KC:88:HIS:HE2	45:LC:284:GLU:CD	2.26	0.41
45:KE:223:THR:OG1	45:KE:224:TYR:N	2.53	0.41
45:KE:324:VAL:HG23	45:KE:327:ASP:HB2	2.02	0.41
45:KE:329:ASN:HA	45:KE:332:ILE:HG12	2.01	0.41
45:KM:93:ILE:HG22	45:KM:114:ILE:HD11	2.02	0.41
46:KN:6:HIS:HE1	46:KN:8:GLN:HB3	1.85	0.41
46:KN:66:MET:HA	46:KN:91:VAL:HG23	2.02	0.41
46:KN:170:VAL:HG11	46:KN:377:MET:HE3	2.01	0.41
45:LA:71:GLU:HA	45:LA:72:PRO:HD3	1.88	0.41
45:LA:200:VAL:HG13	45:LA:268:MET:HE2	2.01	0.41
45:LA:217:LEU:HB3	45:LA:219:ILE:HG13	2.02	0.41
45:LI:221:ARG:HG3	45:LI:221:ARG:NH1	2.35	0.41
45:LK:206:ASN:CG	47:LK:501:GTP:HN22	2.26	0.41
45:LK:222:PRO:HG2	46:LL:324:LYS:HE2	2.03	0.41
46:LL:221:THR:HG23	46:LL:224:ASP:H	1.85	0.41
46:LN:6:HIS:HD2	46:LN:7:ILE:N	2.18	0.41
46:LN:276:ARG:HG3	46:LN:276:ARG:HH11	1.85	0.41
45:MA:356:ASN:OD1	45:MA:357:TYR:N	2.53	0.41
46:MB:178:THR:HG22	46:MB:179:VAL:H	1.84	0.41
46:MD:110:ALA:O	46:MD:113:ILE:HG22	2.20	0.41
46:MF:372:THR:HA	46:MF:422:TYR:CE2	2.55	0.41
45:MI:178:SER:OG	46:MJ:347:ASN:HB3	2.20	0.41
46:MJ:345:ILE:HG23	46:MJ:345:ILE:O	2.20	0.41
45:NA:330:ALA:O	45:NA:334:THR:HG23	2.20	0.41
46:NB:64:ILE:HA	46:NB:89:ASN:HB3	2.00	0.41
45:NC:258:ASN:OD1	45:NC:352:LYS:HE3	2.19	0.41
46:ND:178:THR:HG22	46:ND:180:VAL:N	2.32	0.41
45:NE:398:MET:SD	46:NF:345:ILE:HD12	2.60	0.41
45:NG:287:SER:O	45:NG:291:ILE:HG12	2.20	0.41
46:NH:385:PHE:HE2	46:NH:412:GLU:HB3	1.85	0.41
45:NI:54:SER:HB3	45:NI:64:ARG:NH1	2.35	0.41
45:NI:285:GLN:N	45:NI:285:GLN:OE1	2.52	0.41
46:NJ:97:ALA:HB3	46:NJ:143:THR:HB	2.02	0.41
45:NK:288:VAL:HA	45:NK:291:ILE:HG12	2.01	0.41
45:NM:176:GLN:OE1	45:NM:304:LYS:NZ	2.52	0.41
46:NN:103:LYS:HE3	46:NN:401:GLU:CD	2.45	0.41
46:NN:113:ILE:O	46:NN:117:LEU:HG	2.20	0.41
45:OA:174:SER:HB2	45:OA:177:VAL:O	2.20	0.41
45:OA:199:ASP:OD1	45:OA:256:GLN:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OB:109:GLY:O	46:OB:113:ILE:HB	2.19	0.41
46:OD:11:GLN:O	46:OD:15:GLN:HG2	2.19	0.41
45:OE:102:ASN:OD1	45:OE:105:ARG:N	2.48	0.41
45:OE:371:VAL:HG12	45:OE:373:ARG:H	1.85	0.41
45:OG:9:VAL:HA	45:OG:68:LEU:O	2.20	0.41
46:OH:117:LEU:HA	46:OH:120:VAL:HG12	2.01	0.41
46:OH:249:ASP:O	46:OH:253:LEU:HG	2.20	0.41
46:OH:359:LYS:HD2	46:OH:360:GLY:N	2.34	0.41
45:OK:248:LEU:HB2	45:OK:355:ILE:H	1.85	0.41
45:OM:88:HIS:HD1	45:OM:90:GLU:HG3	1.85	0.41
45:OM:402:ARG:HA	45:OM:402:ARG:HD3	1.91	0.41
45:PC:119:LEU:HD12	45:PC:156:ARG:HG2	2.02	0.41
46:PD:201:VAL:HG12	46:PD:266:PHE:O	2.19	0.41
46:PF:240:LEU:HD12	46:PF:249:ASP:HB2	2.01	0.41
45:PG:182:VAL:HG22	45:PG:404:PHE:CE2	2.54	0.41
45:PI:222:PRO:HG2	46:PJ:324:LYS:HG2	2.01	0.41
45:PI:226:ASN:O	45:PI:230:LEU:HD23	2.20	0.41
46:PJ:148:GLY:O	46:PJ:152:ILE:HG13	2.19	0.41
45:PK:56:THR:HG23	45:PK:58:ALA:H	1.84	0.41
45:PK:319:TYR:CB	45:PK:323:VAL:HG11	2.50	0.41
46:PL:87:PRO:HA	46:PL:90:PHE:CD2	2.55	0.41
46:PL:185:ALA:O	46:PL:189:VAL:HG12	2.19	0.41
46:PN:5:VAL:HG23	46:PN:7:ILE:HD11	2.02	0.41
46:PN:119:VAL:HA	46:PN:122:LYS:HG2	2.02	0.41
46:PN:194:GLU:HG3	46:PN:262:ARG:NH2	2.34	0.41
46:PN:282:ARG:HB3	46:PN:282:ARG:CZ	2.50	0.41
45:QA:352:LYS:HE2	45:QA:352:LYS:HB2	1.86	0.41
46:QB:105:HIS:NE2	46:QB:150:LEU:HB3	2.34	0.41
46:QB:153:SER:O	46:QB:157:GLU:OE1	2.37	0.41
46:QD:262:ARG:HG3	46:QD:263:LEU:HD12	2.01	0.41
46:QD:318:ARG:O	46:QD:363:MET:HA	2.21	0.41
45:QE:356:ASN:OD1	45:QE:357:TYR:N	2.53	0.41
46:QF:226:ASN:HD21	49:QF:501:GDP:HN1	1.68	0.41
45:QG:293:ASN:O	45:QG:297:GLU:HG2	2.20	0.41
45:QK:258:ASN:CB	45:QK:352:LYS:HD2	2.44	0.41
46:QL:113:ILE:HD11	46:QL:151:LEU:HD12	2.01	0.41
46:QL:325:GLU:CD	45:QM:221:ARG:HH11	2.28	0.41
45:QM:254:GLU:HG2	46:QN:98:GLY:HA2	2.00	0.41
46:RB:3:GLU:HG3	46:RB:62:ARG:HH12	1.85	0.41
46:RD:240:LEU:HD11	46:RD:249:ASP:HA	2.03	0.41
46:RD:387:ALA:O	46:RD:390:ARG:NH2	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RE:226:ASN:HA	45:RE:229:ARG:NH1	2.35	0.41
46:RF:326:VAL:O	46:RF:330:MET:HE3	2.21	0.41
45:RG:81:GLY:O	45:RG:84:ARG:HG3	2.19	0.41
45:RG:261:PRO:HB2	45:RG:265:ILE:HD11	2.02	0.41
46:RJ:11:GLN:HB3	46:RJ:72:THR:HG21	2.02	0.41
45:RK:5:ILE:HB	45:RK:135:PHE:HD2	1.83	0.41
45:RK:317:MET:HA	45:RK:376:CYS:O	2.20	0.41
46:RL:3:GLU:HG3	46:RL:62:ARG:NH1	2.34	0.41
46:RL:327:ASP:O	46:RL:330:MET:HG2	2.21	0.41
45:SA:19:ALA:HA	45:SA:22:GLU:OE1	2.19	0.41
45:SA:252:ILE:HA	45:SA:255:PHE:CE2	2.55	0.41
45:SA:328:VAL:HG11	45:SA:353:VAL:HG21	2.01	0.41
46:SB:45:GLU:OE1	46:SB:46:ARG:HG2	2.20	0.41
46:SB:305:PRO:HB2	46:SB:310:TYR:CE2	2.55	0.41
45:SC:5:ILE:HB	45:SC:135:PHE:CD1	2.55	0.41
46:SD:251:ARG:O	46:SD:255:VAL:HG12	2.20	0.41
45:SG:9:VAL:HG23	45:SG:139:ASN:HB3	2.00	0.41
45:SG:68:LEU:HD21	45:SG:118:CYS:SG	2.60	0.41
46:SH:255:VAL:HA	45:SI:407:TRP:CH2	2.55	0.41
45:SI:413:MET:HG2	45:SI:417:GLU:HG3	2.02	0.41
46:SJ:200:MET:SD	46:SJ:268:ILE:HG23	2.60	0.41
45:SK:54:SER:OG	45:SK:62:VAL:HB	2.20	0.41
46:SL:278:SER:HA	46:SL:281:TYR:HB2	2.01	0.41
46:SL:284:LEU:HB3	46:SL:363:MET:HE2	2.01	0.41
45:SM:419:SER:O	45:SM:422:ARG:N	2.54	0.41
45:TA:141:VAL:HG12	45:TA:171:ILE:O	2.20	0.41
45:TA:268:MET:HB2	45:TA:379:SER:O	2.20	0.41
46:TF:208:TYR:CE1	46:TF:225:LEU:HD11	2.55	0.41
45:TI:35:GLN:NE2	45:TI:60:LYS:HB3	2.35	0.41
45:TI:101:ASN:HD22	45:TI:143:GLY:HA2	1.84	0.41
45:TI:288:VAL:HB	45:TI:373:ARG:NH2	2.34	0.41
45:TI:297:GLU:CD	45:TI:299:ALA:H	2.28	0.41
46:TL:189:VAL:HG13	46:TL:415:MET:HE2	2.02	0.41
46:TL:350:LYS:HG3	45:TM:180:ALA:HA	2.02	0.41
46:TL:362:LYS:HD3	46:TL:362:LYS:N	2.36	0.41
45:TM:270:SER:N	45:TM:301:MET:HE1	2.34	0.41
46:TN:312:THR:HG22	46:TN:370:ASN:HB3	2.01	0.41
45:UA:172:TYR:HD2	45:UA:203:MET:HG3	1.84	0.41
46:UB:164:MET:HE3	46:UB:165:GLU:N	2.34	0.41
45:UC:215:ARG:HG3	45:UC:216:ASN:OD1	2.19	0.41
45:UC:315:CYS:SG	45:UC:377:MET:HE2	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UC:334:THR:O	45:UC:338:LYS:HG2	2.20	0.41
46:UD:377:MET:O	46:UD:381:VAL:HG22	2.19	0.41
45:UE:2:ARG:HD2	45:UE:242:LEU:O	2.20	0.41
45:UE:352:LYS:NZ	46:UF:179:VAL:H	2.18	0.41
45:UG:2:ARG:O	45:UG:51:THR:HA	2.21	0.41
45:UG:231:ILE:O	45:UG:235:ILE:HG12	2.20	0.41
46:UH:183:TYR:OH	46:UH:388:MET:HB3	2.20	0.41
46:UH:361:LEU:HD23	46:UH:361:LEU:HA	1.90	0.41
45:UI:141:VAL:HB	45:UI:170:THR:HG23	2.01	0.41
46:UN:7:ILE:HD12	46:UN:64:ILE:HB	2.02	0.41
46:UN:288:GLU:O	46:UN:292:GLN:HG2	2.20	0.41
45:VA:237:SER:O	45:VA:318:MET:HE2	2.20	0.41
45:VA:260:VAL:HG13	45:VA:260:VAL:O	2.20	0.41
46:VD:210:ILE:HD11	46:VD:299:MET:O	2.20	0.41
45:VE:71:GLU:HA	45:VE:72:PRO:HD3	1.91	0.41
46:VF:4:ILE:HG23	46:VF:131:GLN:HB3	2.01	0.41
45:VG:387:VAL:O	45:VG:391:LEU:HD23	2.19	0.41
46:VH:217:LEU:HD23	46:VH:217:LEU:H	1.83	0.41
45:VI:221:ARG:CZ	46:VJ:322:SER:H	2.33	0.41
46:VJ:208:TYR:HE1	46:VJ:225:LEU:HD11	1.85	0.41
45:VK:178:SER:HB3	46:VL:347:ASN:HD21	1.84	0.41
45:VK:358:GLN:NE2	45:VK:359:PRO:HD2	2.36	0.41
46:VN:392:LYS:N	46:VN:392:LYS:HD3	2.35	0.41
46:WB:44:LEU:HD23	46:WB:44:LEU:HA	1.91	0.41
45:WC:334:THR:HG22	45:WC:338:LYS:NZ	2.35	0.41
46:WD:24:ILE:HD13	46:WD:27:GLU:OE1	2.20	0.41
45:WG:301:MET:HE1	45:WG:307:PRO:HG3	2.01	0.41
45:WG:384:ILE:O	45:WG:387:VAL:HG22	2.19	0.41
46:WH:296:ALA:O	46:WH:299:MET:HG2	2.21	0.41
46:WH:396:HIS:NE2	46:WH:397:TRP:CD1	2.88	0.41
46:WJ:172:SER:HA	46:WJ:380:ARG:NH1	2.35	0.41
45:WK:326:LYS:CE	46:WN:220:PRO:HB2	2.49	0.41
46:WL:391:ARG:HA	46:WL:391:ARG:HD2	1.77	0.41
45:WM:21:TRP:CD1	45:WM:67:PHE:HZ	2.38	0.41
46:WN:22:GLU:HG2	46:WN:81:PHE:CD1	2.55	0.41
5:0E:49:PHE:HA	5:0E:52:LEU:HD13	2.03	0.41
6:0F:206:LYS:O	6:0F:211:LEU:HG	2.20	0.41
9:0N:69:LYS:HB2	9:0N:72:TYR:CE2	2.56	0.41
11:0S:90:VAL:O	12:0T:26:PRO:HB3	2.20	0.41
11:0S:286:LEU:O	11:0S:289:GLU:HG3	2.19	0.41
11:0S:289:GLU:O	11:0S:292:GLU:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:0U:263:LYS:NZ	13:0U:308:GLU:HA	2.35	0.41
16:1B:120:ASP:O	16:1B:124:GLN:HG2	2.20	0.41
16:1B:279:ARG:HG3	16:1B:279:ARG:O	2.20	0.41
3:1C:66:THR:HG23	3:1C:68:GLN:OE1	2.20	0.41
4:1D:92:ASN:OD1	4:1D:95:GLN:HA	2.20	0.41
5:1E:143:PHE:O	5:1E:147:LEU:HD23	2.19	0.41
17:1F:142:ASN:OD1	17:1F:145:SER:HB2	2.20	0.41
21:1L:128:ILE:O	21:1L:129:SER:C	2.63	0.41
21:1L:390:GLN:OE1	21:1L:390:GLN:N	2.46	0.41
21:1L:662:THR:OG1	21:1L:665:GLN:HG2	2.20	0.41
9:1N:478:ASP:O	9:1N:482:VAL:HG23	2.19	0.41
23:1O:189:ILE:HD13	46:UD:276:ARG:NH2	2.36	0.41
24:1P:164:THR:HG21	45:TI:372:MET:SD	2.61	0.41
24:1P:189:HIS:HE1	46:TH:284:LEU:HD23	1.85	0.41
24:1P:282:VAL:O	24:1P:286:ILE:HG13	2.20	0.41
25:1R:92:TRP:CD1	45:AC:372:MET:HE1	2.55	0.41
25:1R:101:ARG:HB3	25:1R:191:ASP:OD2	2.20	0.41
11:1S:187:PHE:HD2	11:1S:188:LEU:HD22	1.86	0.41
12:1T:37:ALA:HA	12:1T:40:GLN:OE1	2.21	0.41
12:1T:52:ILE:HG22	12:1T:191:PHE:HZ	1.85	0.41
12:1T:89:ILE:HD13	14:3V:186:HIS:CG	2.55	0.41
12:1T:94:ASP:OD1	12:1T:95:GLU:N	2.53	0.41
12:1T:240:LYS:HA	12:1T:243:LYS:NZ	2.36	0.41
26:1W:120:LEU:HD23	26:1W:120:LEU:HA	1.82	0.41
16:2B:180:GLU:HB3	26:2W:272:LYS:NZ	2.30	0.41
27:2C:35:LEU:HD23	27:2C:38:ILE:HD12	2.02	0.41
5:2E:49:PHE:HA	5:2E:52:LEU:HG	2.02	0.41
28:2F:84:TRP:C	28:2F:85:MET:HE2	2.45	0.41
29:2G:4:ILE:HD12	29:2G:4:ILE:H	1.84	0.41
30:2H:168:LYS:NZ	45:MA:57:GLY:HA2	2.35	0.41
31:2I:65:LEU:HA	31:2I:68:THR:HG22	2.02	0.41
31:2I:77:GLY:HA3	45:GE:338:LYS:HE2	2.02	0.41
31:2I:95:LYS:HG3	46:GF:332:ASN:OD1	2.20	0.41
21:2L:517:ARG:HD2	21:2L:612:GLU:HB2	2.02	0.41
21:2L:772:ASN:HD21	45:BK:279:GLU:HB3	1.84	0.41
22:2M:238:CYS:SG	22:2M:306:LEU:HD12	2.60	0.41
23:2O:400:GLN:C	23:2O:404:GLN:HE22	2.27	0.41
23:2O:423:HIS:CE1	45:VA:372:MET:SD	3.13	0.41
25:2R:44:VAL:HG12	25:2R:45:VAL:C	2.45	0.41
11:2S:227:ILE:O	11:2S:231:LEU:HG	2.20	0.41
11:2S:253:ARG:HA	11:2S:309:MET:HE1	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:2T:147:PHE:CE2	46:MJ:106:TYR:HB3	2.55	0.41
13:2U:369:THR:CG2	13:2U:411:LEU:HB2	2.50	0.41
14:2V:100:ILE:HG22	14:2V:101:ILE:H	1.84	0.41
14:2V:100:ILE:HG22	14:2V:101:ILE:N	2.35	0.41
16:3B:31:ARG:NE	16:3B:31:ARG:HA	2.35	0.41
25:3R:108:GLU:O	25:3R:119:ARG:N	2.52	0.41
25:3R:143:ASN:OD1	46:BN:219:THR:HG22	2.20	0.41
11:3S:247:ALA:O	11:3S:250:PRO:HD2	2.20	0.41
12:3T:221:ARG:HD3	12:3T:221:ARG:HA	1.88	0.41
27:4C:33:ARG:NH2	27:4C:176:ASP:OD2	2.54	0.41
34:4R:408:ALA:N	46:EF:218:THR:HG21	2.35	0.41
15:4X:93:ALA:HA	15:4X:96:ARG:HE	1.85	0.41
36:5B:102:TYR:HA	45:KE:393:HIS:CE1	2.55	0.41
37:5E:154:TYR:CE1	46:ND:35:THR:HG23	2.54	0.41
10:5Q:14:LEU:HD12	10:5Q:25:TRP:CE2	2.55	0.41
10:5Q:115:LYS:NZ	45:AK:264:ARG:HD3	2.35	0.41
40:6G:89:PHE:CE2	45:UK:89:PRO:HB2	2.55	0.41
41:6H:320:SER:HA	41:6H:323:TYR:HD1	1.84	0.41
10:6Q:94:LEU:HD13	10:6Q:100:ARG:HH22	1.84	0.41
34:6R:145:ILE:HG21	34:6R:150:ILE:HD11	2.01	0.41
45:AA:419:SER:O	45:AA:423:GLU:OE1	2.38	0.41
46:AB:137:HIS:NE2	46:AB:166:THR:OG1	2.54	0.41
46:AB:178:THR:HG22	46:AB:180:VAL:H	1.85	0.41
45:AE:17:GLY:HA2	45:AE:20:CYS:SG	2.60	0.41
45:AE:256:GLN:HB3	46:AH:397:TRP:CH2	2.56	0.41
45:AG:88:HIS:HB3	45:AG:91:GLN:HG2	2.02	0.41
45:AG:272:TYR:HD1	45:AG:275:ILE:HD11	1.86	0.41
45:AG:317:MET:HE2	45:AG:319:TYR:CZ	2.55	0.41
46:AJ:403:MET:HB2	46:AJ:407:GLU:OE2	2.20	0.41
46:AL:105:HIS:HD1	46:AL:106:TYR:HD1	1.68	0.41
46:AL:201:VAL:O	46:AL:202:ILE:HD13	2.20	0.41
45:AM:56:THR:HG23	45:AM:58:ALA:H	1.85	0.41
45:AM:109:THR:C	45:AM:112:LYS:HZ1	2.29	0.41
46:AN:47:ILE:CG2	46:AN:51:TYR:HB2	2.50	0.41
46:AN:317:PHE:CD1	46:AN:365:VAL:HG22	2.55	0.41
46:BB:69:GLU:HA	46:BB:70:PRO:HD3	1.86	0.41
45:BE:210:TYR:HA	46:BF:324:LYS:NZ	2.35	0.41
46:BF:316:LEU:HB2	46:BF:366:THR:HG22	2.03	0.41
45:BG:414:GLU:OE1	45:BG:416:GLY:N	2.47	0.41
46:BH:230:SER:HA	46:BH:233:MET:HG2	2.02	0.41
46:BL:4:ILE:HD11	46:BL:131:GLN:HG3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BM:203:MET:HE3	45:BM:267:PHE:HB3	2.02	0.41
45:CA:136:LEU:HD21	45:CA:138:PHE:CZ	2.55	0.41
46:CB:164:MET:HG2	46:CB:196:ALA:HA	2.03	0.41
46:CB:392:LYS:HA	46:CB:395:LEU:HD13	2.01	0.41
45:CC:196:GLU:H	45:CC:196:GLU:CD	2.28	0.41
45:CC:388:PHE:HD2	45:CC:428:LEU:HD22	1.84	0.41
46:CD:321:MET:HG2	46:CD:363:MET:HE3	2.02	0.41
46:CF:325:GLU:OE1	45:CG:221:ARG:CZ	2.69	0.41
45:CG:368:LEU:HD12	45:CG:368:LEU:HA	1.93	0.41
46:CH:330:MET:HB3	46:CH:349:ILE:CD1	2.45	0.41
45:CI:324:VAL:HG12	45:CI:326:LYS:HG2	2.02	0.41
45:CK:394:LYS:HE3	45:CK:394:LYS:HB2	1.90	0.41
46:CL:101:TRP:HE3	46:CL:403:MET:HE1	1.86	0.41
46:DH:86:ARG:NH2	46:EH:281:TYR:O	2.52	0.41
45:DK:195:LEU:HD12	45:DK:267:PHE:HE1	1.86	0.41
45:DK:225:THR:HG22	45:DK:229:ARG:HE	1.85	0.41
46:DL:190:HIS:HD2	46:DL:411:ALA:HA	1.85	0.41
45:DM:311:LYS:HB3	45:DM:311:LYS:HE3	1.86	0.41
46:EB:132:GLY:HA3	46:EB:163:ILE:HG13	2.01	0.41
46:ED:156:ARG:NH2	46:ED:160:PRO:O	2.53	0.41
46:EF:2:ARG:NH1	45:EG:71:GLU:HG2	2.35	0.41
45:EG:90:GLU:HG2	45:EG:121:ARG:CZ	2.50	0.41
46:EH:113:ILE:HA	46:EH:116:VAL:HG12	2.02	0.41
46:EH:181:GLU:HG2	46:EH:182:PRO:HD3	2.02	0.41
45:EK:259:LEU:HD23	45:EK:314:ALA:HB1	2.02	0.41
45:EM:267:PHE:O	45:EM:268:MET:HE2	2.20	0.41
46:EN:232:ALA:HB1	46:EN:268:ILE:HD12	2.02	0.41
45:FC:98:ASP:OD2	45:FC:100:ALA:N	2.33	0.41
46:FD:360:GLY:C	46:FD:361:LEU:HD12	2.44	0.41
45:FE:323:VAL:HG13	45:FE:373:ARG:HG2	2.02	0.41
46:FF:60:VAL:HG21	46:FF:86:ARG:NE	2.35	0.41
46:FF:391:ARG:HD2	46:FF:391:ARG:HA	1.82	0.41
45:FG:179:THR:O	46:FH:350:LYS:HA	2.20	0.41
45:FG:398:MET:HE2	46:FH:346:PRO:HD2	2.01	0.41
45:FI:171:ILE:HG22	45:FI:204:LEU:HB2	2.02	0.41
46:FL:201:VAL:HG12	46:FL:266:PHE:O	2.21	0.41
45:GA:221:ARG:HH21	46:GB:321:MET:HB3	1.84	0.41
45:GE:328:VAL:O	45:GE:332:ILE:HG12	2.20	0.41
45:GK:348:PRO:HD3	46:GN:388:MET:CE	2.50	0.41
46:GL:173:PRO:HG2	46:GL:380:ARG:HD3	2.01	0.41
46:GN:65:LEU:HD22	46:GN:90:PHE:CE1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GN:190:HIS:CE1	46:GN:411:ALA:HA	2.55	0.41
46:GN:274:THR:HB	46:GN:282:ARG:HH11	1.84	0.41
46:HB:145:SER:HB2	46:HB:188:SER:HB3	2.01	0.41
46:HB:238:CYS:HA	46:HB:241:ARG:CZ	2.50	0.41
46:HD:8:GLN:OE1	46:HD:14:ASN:HA	2.21	0.41
46:HD:175:VAL:O	46:HD:175:VAL:HG13	2.20	0.41
45:HE:21:TRP:HZ2	45:HE:65:ALA:HB2	1.86	0.41
45:HE:100:ALA:HB1	46:HF:252:LYS:HA	2.02	0.41
46:HF:273:LEU:H	46:HF:292:GLN:HE22	1.67	0.41
46:HF:324:LYS:HG3	46:HF:325:GLU:N	2.35	0.41
46:HF:391:ARG:HA	46:HF:391:ARG:HD2	1.78	0.41
46:HH:409:THR:O	46:HH:412:GLU:HG3	2.20	0.41
45:HI:32:PRO:HB3	45:HI:83:TYR:CD1	2.55	0.41
45:HI:88:HIS:HB3	45:HI:91:GLN:HG2	2.00	0.41
46:HJ:293:MET:HE1	46:HJ:315:ALA:CB	2.50	0.41
45:HK:352:LYS:HA	45:HK:352:LYS:HD3	1.92	0.41
46:HL:178:THR:N	46:HL:181:GLU:OE1	2.52	0.41
46:HL:200:MET:HE2	46:HL:268:ILE:HD13	2.02	0.41
46:HN:16:ILE:HD13	46:HN:226:ASN:OD1	2.21	0.41
45:IA:70:LEU:HB3	45:IA:97:GLU:O	2.20	0.41
45:IA:316:SER:HB3	45:IA:378:ILE:CG2	2.50	0.41
46:IB:420:SER:O	46:IB:423:GLN:HG3	2.19	0.41
45:IC:284:GLU:N	45:IC:284:GLU:OE2	2.53	0.41
45:IE:221:ARG:O	45:IE:221:ARG:HG3	2.20	0.41
45:IE:320:ARG:HD2	45:IE:360:PRO:HG3	2.01	0.41
46:IF:105:HIS:CE1	46:IF:150:LEU:HD12	2.55	0.41
45:II:171:ILE:HG23	45:II:204:LEU:O	2.20	0.41
45:II:227:LEU:O	45:II:231:ILE:HG12	2.20	0.41
46:IJ:344:TRP:CD1	46:IJ:344:TRP:H	2.38	0.41
46:IL:68:LEU:HD21	46:IL:147:MET:CE	2.50	0.41
46:IL:210:ILE:HD11	46:IL:299:MET:O	2.21	0.41
45:IM:60:LYS:NZ	45:IM:62:VAL:HG22	2.35	0.41
45:IM:320:ARG:NH2	45:IM:359:PRO:O	2.54	0.41
46:IN:31:ASP:HB3	46:IN:37:HIS:CD2	2.55	0.41
46:JB:204:ASN:OD1	46:JB:205:GLU:N	2.54	0.41
46:JD:36:TYR:O	46:JD:37:HIS:ND1	2.53	0.41
46:JD:296:ALA:HB3	46:JD:297:LYS:HZ2	1.85	0.41
46:JF:395:LEU:O	46:JF:399:THR:HG23	2.19	0.41
45:JG:338:LYS:HZ2	45:JG:341:ILE:HG13	1.84	0.41
46:JH:169:VAL:O	46:JH:169:VAL:HG23	2.19	0.41
46:JH:297:LYS:NZ	46:JH:306:ARG:HH12	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JI:21:TRP:CH2	45:JI:63:PRO:HB3	2.55	0.41
45:JI:269:LEU:H	45:JI:269:LEU:HD23	1.85	0.41
46:JL:133:PHE:HB2	46:JL:164:MET:SD	2.60	0.41
46:JL:343:GLU:OE1	46:JL:343:GLU:N	2.46	0.41
45:JM:330:ALA:O	45:JM:334:THR:HG23	2.20	0.41
46:JN:6:HIS:O	46:JN:63:ALA:HA	2.18	0.41
46:JN:7:ILE:HD11	46:JN:120:VAL:HG21	2.03	0.41
46:JN:188:SER:O	46:JN:192:LEU:HG	2.20	0.41
45:KA:352:LYS:HA	46:KD:177:ASP:O	2.20	0.41
45:KC:215:ARG:NH2	45:KC:299:ALA:O	2.51	0.41
46:KF:415:MET:O	46:KF:419:VAL:HG23	2.21	0.41
45:KG:328:VAL:O	45:KG:332:ILE:HG12	2.20	0.41
46:KH:69:GLU:CD	46:KH:71:GLY:H	2.28	0.41
45:KI:96:LYS:HG3	45:KI:97:GLU:OE1	2.21	0.41
46:KJ:324:LYS:O	46:KJ:328:GLU:OE1	2.39	0.41
46:KJ:398:TYR:HB3	46:KJ:403:MET:SD	2.60	0.41
45:KK:188:ILE:HD12	45:KK:425:LEU:HG	2.03	0.41
45:KM:408:TYR:HA	45:KM:411:GLU:OE2	2.20	0.41
46:LB:65:LEU:HD22	46:LB:90:PHE:CE1	2.56	0.41
46:LB:270:PHE:HD2	46:LB:273:LEU:HD21	1.85	0.41
45:LC:265:ILE:HG22	45:LC:380:ASN:HD21	1.85	0.41
45:LE:68:LEU:HD12	45:LE:153:LEU:HD11	2.02	0.41
45:LE:210:TYR:CG	46:LF:324:LYS:NZ	2.88	0.41
46:LH:9:GLY:HA2	46:LH:66:MET:O	2.21	0.41
46:LH:151:LEU:O	46:LH:155:VAL:HG12	2.20	0.41
45:LI:125:LEU:HD12	45:LI:125:LEU:HA	1.90	0.41
45:LM:320:ARG:HD3	45:LM:360:PRO:HG3	2.02	0.41
45:MC:328:VAL:HG11	45:MC:353:VAL:HG21	2.01	0.41
46:MD:378:PHE:HB3	46:MD:415:MET:HE2	2.03	0.41
46:MH:105:HIS:CE1	46:MH:150:LEU:HD12	2.55	0.41
46:MH:345:ILE:HG23	46:MH:345:ILE:O	2.20	0.41
45:MI:52:PHE:HZ	45:MI:239:THR:HG21	1.85	0.41
46:MJ:66:MET:HE2	46:MJ:147:MET:HE3	2.02	0.41
45:MM:117:LEU:HD12	45:MM:117:LEU:H	1.85	0.41
45:NA:326:LYS:HA	45:NA:326:LYS:HD3	1.96	0.41
45:NA:328:VAL:O	45:NA:332:ILE:HG12	2.20	0.41
46:NB:224:ASP:O	46:NB:228:LEU:HD23	2.20	0.41
45:NC:320:ARG:HG3	45:NC:360:PRO:HG3	2.02	0.41
45:NG:425:LEU:O	45:NG:429:GLU:HG2	2.20	0.41
45:NI:33:ASP:HA	45:NI:85:GLN:HB3	2.01	0.41
45:NI:151:SER:O	45:NI:155:GLU:OE1	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NI:180:ALA:HB3	45:NI:183:GLU:HB3	2.03	0.41
45:NI:220:GLU:HG2	45:NI:221:ARG:CD	2.49	0.41
45:NK:22:GLU:HA	45:NK:25:CYS:SG	2.61	0.41
46:NN:289:LEU:HD13	46:NN:365:VAL:HG23	2.03	0.41
45:OA:69:ASP:OD1	45:OA:70:LEU:N	2.52	0.41
45:OA:217:LEU:HB3	45:OA:219:ILE:HG12	2.01	0.41
45:OA:404:PHE:CE1	46:OB:259:PRO:HA	2.55	0.41
46:OB:285:THR:HB	46:OB:287:PRO:HD2	2.02	0.41
46:OB:313:ALA:HB3	46:OB:349:ILE:HG13	2.03	0.41
45:OC:9:VAL:HA	45:OC:68:LEU:O	2.20	0.41
45:OE:224:TYR:CZ	46:OF:246:LEU:HD21	2.55	0.41
46:OF:398:TYR:O	46:OF:403:MET:HB2	2.20	0.41
45:OG:326:LYS:HE2	46:OJ:220:PRO:HB2	2.02	0.41
46:OH:52:ASN:ND2	46:OH:62:ARG:HB3	2.35	0.41
46:OJ:372:THR:HA	46:OJ:422:TYR:CE2	2.55	0.41
45:OK:21:TRP:HZ2	45:OK:65:ALA:HB2	1.86	0.41
45:OK:277:SER:H	45:OK:280:LYS:NZ	2.18	0.41
46:OL:117:LEU:HA	46:OL:117:LEU:HD23	1.96	0.41
45:OM:421:ALA:O	45:OM:425:LEU:HD23	2.20	0.41
45:PA:117:LEU:O	45:PA:121:ARG:HG2	2.20	0.41
45:PA:324:VAL:HG12	45:PA:326:LYS:HE2	2.01	0.41
46:PB:16:ILE:HD12	46:PB:229:VAL:HG11	2.01	0.41
45:PC:154:LEU:CD2	45:PC:197:HIS:HB3	2.50	0.41
46:PD:209:ASP:HB3	46:PD:213:ARG:NH1	2.32	0.41
46:PD:345:ILE:HG23	46:PD:345:ILE:O	2.20	0.41
45:PE:27:GLU:OE2	45:PE:28:HIS:ND1	2.53	0.41
45:PE:296:PHE:CE2	45:PE:335:ILE:HG21	2.55	0.41
45:PG:71:GLU:HA	45:PG:72:PRO:HD3	1.90	0.41
47:PG:501:GTP:PG	46:PH:252:LYS:HZ1	2.43	0.41
46:PH:261:PRO:HG2	46:PH:262:ARG:NH1	2.35	0.41
45:PI:387:VAL:HA	45:PI:390:ARG:HG2	2.01	0.41
46:PJ:217:LEU:HD23	46:PJ:219:THR:N	2.30	0.41
46:PL:108:GLU:O	46:PL:111:GLU:HG3	2.20	0.41
45:PM:208:ALA:O	45:PM:212:ILE:HG12	2.20	0.41
45:PM:210:TYR:HE2	46:PN:324:LYS:HG3	1.76	0.41
45:PM:212:ILE:HD13	45:PM:212:ILE:HA	1.92	0.41
45:PM:372:MET:N	45:PM:372:MET:HE2	2.36	0.41
46:PN:189:VAL:HA	46:PN:192:LEU:HB3	2.02	0.41
46:PN:286:VAL:HG12	46:PN:329:GLN:OE1	2.20	0.41
45:QA:293:ASN:O	45:QA:297:GLU:HG2	2.20	0.41
46:QB:5:VAL:HG12	46:QB:62:ARG:HD3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QB:101:TRP:CE3	46:QB:187:LEU:HD23	2.56	0.41
46:QB:154:LYS:HA	46:QB:157:GLU:CD	2.45	0.41
46:QB:168:SER:O	46:QB:201:VAL:HA	2.21	0.41
45:QC:83:TYR:HB3	45:QC:86:LEU:HD12	2.02	0.41
46:QD:35:THR:HB	46:QD:37:HIS:HE1	1.86	0.41
45:QE:269:LEU:HD23	45:QE:379:SER:O	2.21	0.41
46:QF:6:HIS:HB3	46:QF:63:ALA:HB2	2.02	0.41
46:QF:10:GLY:O	46:QF:14:ASN:ND2	2.54	0.41
46:QF:222:TYR:O	46:QF:226:ASN:ND2	2.29	0.41
45:QI:27:GLU:OE2	45:QI:243:ARG:NH1	2.54	0.41
45:QI:225:THR:O	45:QI:229:ARG:HG2	2.20	0.41
46:QJ:50:TYR:CE1	46:QJ:241:ARG:HD3	2.55	0.41
46:QJ:188:SER:O	46:QJ:192:LEU:HD23	2.20	0.41
45:QM:346:TRP:CD1	46:QN:391:ARG:HG3	2.55	0.41
46:QN:370:ASN:OD1	46:QN:422:TYR:OH	2.38	0.41
46:RB:69:GLU:HA	46:RB:70:PRO:HD3	1.87	0.41
46:RB:86:ARG:NH2	46:SB:282:ARG:HD2	2.27	0.41
45:RC:133:GLN:C	45:RC:164:LYS:HZ1	2.25	0.41
45:RC:172:TYR:OH	45:RC:191:THR:OG1	2.20	0.41
46:RD:69:GLU:HA	46:RD:70:PRO:HD3	1.86	0.41
45:RE:271:SER:OG	45:RE:301:MET:HA	2.21	0.41
45:RE:287:SER:O	45:RE:290:GLU:HG2	2.20	0.41
45:RE:387:VAL:HG12	45:RE:390:ARG:NH2	2.29	0.41
45:RG:404:PHE:CD1	45:RG:407:TRP:HZ3	2.34	0.41
46:RH:7:ILE:HG12	46:RH:64:ILE:HD13	2.02	0.41
46:RH:318:ARG:O	46:RH:363:MET:HA	2.19	0.41
46:RJ:3:GLU:OE2	46:RJ:127:CYS:HB2	2.20	0.41
45:RM:182:VAL:HG22	45:RM:182:VAL:O	2.20	0.41
45:RM:408:TYR:CD2	45:RM:413:MET:HE1	2.55	0.41
46:SB:156:ARG:NH2	46:SB:160:PRO:O	2.53	0.41
46:SD:226:ASN:HA	46:SD:229:VAL:HG22	2.02	0.41
46:SD:342:VAL:HG13	46:SD:345:ILE:HG22	2.02	0.41
46:SH:262:ARG:NH1	46:SH:421:GLU:OE2	2.54	0.41
45:SI:184:PRO:O	45:SI:188:ILE:HG12	2.19	0.41
45:SI:239:THR:HG23	45:SI:243:ARG:HH21	1.84	0.41
46:SJ:16:ILE:HD13	46:SJ:226:ASN:OD1	2.20	0.41
46:SL:289:LEU:HD23	46:SL:289:LEU:HA	1.94	0.41
46:SL:350:LYS:HZ1	45:SM:180:ALA:HA	1.85	0.41
45:SM:85:GLN:OE1	45:SM:85:GLN:N	2.48	0.41
46:TB:316:LEU:HG	46:TB:352:SER:OG	2.19	0.41
45:TC:384:ILE:O	45:TC:387:VAL:HG22	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TD:325:GLU:O	46:TD:328:GLU:HG2	2.20	0.41
45:TE:419:SER:O	45:TE:423:GLU:OE1	2.39	0.41
46:TH:221:THR:HG23	46:TH:224:ASP:H	1.84	0.41
46:TJ:200:MET:SD	46:TJ:268:ILE:HD13	2.60	0.41
46:TJ:304:ASP:HB3	46:TJ:307:HIS:CG	2.55	0.41
46:TL:208:TYR:CE2	46:TL:225:LEU:HD11	2.54	0.41
46:TL:421:GLU:O	46:TL:424:GLN:HG2	2.19	0.41
45:UE:88:HIS:CE1	45:UE:90:GLU:HG3	2.55	0.41
46:UF:117:LEU:HA	46:UF:120:VAL:HG12	2.03	0.41
46:UH:86:ARG:HB2	46:UH:89:ASN:OD1	2.21	0.41
46:UH:207:LEU:HD13	46:UH:210:ILE:HD11	2.02	0.41
46:UH:286:VAL:HG12	46:UH:329:GLN:HG3	2.01	0.41
46:UJ:2:ARG:HH12	46:UJ:240:LEU:CG	2.28	0.41
45:UK:141:VAL:HG22	45:UK:187:SER:HA	2.01	0.41
45:UM:2:ARG:HA	45:UM:133:GLN:HE22	1.85	0.41
45:UM:271:SER:HB2	45:UM:301:MET:HA	2.02	0.41
46:UN:318:ARG:HD3	46:UN:358:PRO:HD2	2.02	0.41
45:VA:205:ASP:OD1	45:VA:303:ALA:HA	2.20	0.41
46:VB:50:TYR:OH	46:VB:237:THR:HG21	2.20	0.41
45:VC:297:GLU:HB3	45:VC:300:ASN:ND2	2.36	0.41
46:VD:24:ILE:HG21	46:VD:50:TYR:HD2	1.85	0.41
46:VD:396:HIS:CD2	46:VD:397:TRP:CD1	3.09	0.41
46:VD:396:HIS:HE2	46:VD:397:TRP:NE1	2.19	0.41
45:VE:196:GLU:CD	45:VE:196:GLU:H	2.28	0.41
45:VE:329:ASN:ND2	46:VH:175:VAL:HG12	2.35	0.41
45:VE:390:ARG:O	45:VE:394:LYS:HG3	2.20	0.41
45:VG:184:PRO:O	45:VG:188:ILE:HD12	2.20	0.41
46:VH:200:MET:HG2	46:VH:268:ILE:HG23	2.02	0.41
45:VK:289:ALA:O	45:VK:292:THR:HG22	2.20	0.41
45:VK:296:PHE:HE1	45:VK:377:MET:HG3	1.85	0.41
46:VL:255:VAL:HG13	46:VL:256:ASN:HD22	1.85	0.41
45:VM:141:VAL:HG11	45:VM:172:TYR:HD1	1.84	0.41
46:VN:184:ASN:OD1	46:VN:185:ALA:N	2.54	0.41
45:WA:404:PHE:CD1	46:WB:259:PRO:HA	2.56	0.41
46:WB:19:LYS:HA	46:WB:22:GLU:HG3	2.02	0.41
46:WB:113:ILE:HD12	46:WB:150:LEU:HD12	2.02	0.41
46:WB:250:LEU:O	46:WB:253:LEU:HG	2.20	0.41
46:WD:218:THR:O	46:WD:220:PRO:HD3	2.19	0.41
45:WE:56:THR:HG23	45:WE:58:ALA:H	1.85	0.41
45:WE:69:ASP:OD2	45:WE:70:LEU:N	2.53	0.41
46:WF:405:GLU:H	46:WF:405:GLU:CD	2.26	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WG:206:ASN:OD1	47:WG:501:GTP:N2	2.49	0.41
45:WI:219:ILE:HG22	45:WI:222:PRO:HD3	2.01	0.41
45:WM:101:ASN:HA	45:WM:144:GLY:N	2.29	0.41
45:WM:259:LEU:HD11	45:WM:316:SER:HB3	2.01	0.41
46:WN:337:ASN:OD1	46:WN:340:TYR:HB2	2.19	0.41
45:DC:280:LYS:O	45:DC:280:LYS:HG3	2.19	0.41
2:0B:227:GLU:N	2:0B:233:ASN:HD22	2.09	0.41
2:0B:234:THR:O	2:0B:238:ARG:N	2.53	0.41
2:0B:312:ARG:HB2	45:KI:48:ALA:HB2	2.03	0.41
4:0D:187:PHE:HB2	46:FB:322:SER:HB2	2.02	0.41
7:0G:132:ARG:NH2	45:JM:82:THR:HB	2.36	0.41
8:0H:392:ASP:HA	8:0H:395:ILE:HG12	2.01	0.41
9:0N:194:TYR:OH	26:2W:242:LEU:HD22	2.20	0.41
12:0T:72:PHE:HA	12:0T:108:PRO:HA	2.02	0.41
16:1B:115:LYS:HE3	16:1B:115:LYS:HB3	1.94	0.41
4:1D:48:ILE:HD12	4:1D:53:ILE:HG21	2.03	0.41
5:1E:172:SER:HA	5:1E:181:PHE:HE1	1.85	0.41
8:1H:142:LEU:O	8:1H:146:MET:HG2	2.20	0.41
8:1H:345:ALA:O	8:1H:349:ARG:NH1	2.54	0.41
18:1I:144:THR:HG23	46:KF:355:ASP:OD2	2.20	0.41
18:1I:217:ILE:H	18:1I:217:ILE:HD12	1.84	0.41
19:1J:215:ASN:OD1	46:IJ:360:GLY:HA3	2.21	0.41
19:1J:239:PHE:CE2	19:1J:240:LYS:HE3	2.56	0.41
19:1J:292:LYS:HG3	19:1J:293:ASP:OD1	2.20	0.41
21:1L:329:PHE:CZ	21:1L:344:PHE:HB2	2.55	0.41
21:1L:494:GLU:HG3	34:4R:218:ILE:HG21	2.00	0.41
21:1L:664:LYS:O	21:1L:668:GLN:HG2	2.19	0.41
21:1L:785:LEU:HD13	21:1L:790:ILE:HG22	2.02	0.41
22:1M:355:LEU:HB3	22:1M:358:ASP:CG	2.45	0.41
9:1N:395:ARG:HD3	9:1N:471:SER:OG	2.21	0.41
10:1Q:17:ILE:O	10:1Q:17:ILE:HG23	2.21	0.41
25:1R:236:MET:HE1	45:BC:1:MET:HE1	2.02	0.41
11:1S:273:ILE:HD13	10:2Q:36:ARG:HG3	2.03	0.41
12:1T:137:SER:OG	12:1T:140:GLN:HG3	2.21	0.41
15:1X:100:LYS:HA	45:MC:282:TYR:HD2	1.85	0.41
16:2B:65:LEU:O	16:2B:67:ALA:N	2.53	0.41
27:2C:26:GLN:OE1	27:2C:30:LEU:HB2	2.20	0.41
27:2C:255:ASN:O	27:2C:259:ILE:HG12	2.20	0.41
5:2E:45:ARG:HB2	34:5R:379:LYS:HZ3	1.85	0.41
21:2L:396:ASN:OD1	21:2L:397:LEU:N	2.53	0.41
21:2L:689:TYR:OH	21:2L:705:ASP:OD2	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:2L:837:LYS:NZ	21:2L:839:ASN:HA	2.34	0.41
9:2N:218:LEU:HD12	9:2N:236:PHE:O	2.20	0.41
23:2O:217:ASN:O	23:2O:220:VAL:HG22	2.20	0.41
23:2O:369:LEU:O	23:2O:373:ARG:HG3	2.20	0.41
25:2R:111:VAL:HG23	25:2R:112:GLU:OE1	2.21	0.41
25:2R:215:ASN:O	25:2R:219:LYS:NZ	2.51	0.41
25:2R:382:TYR:HA	46:EH:276:ARG:NH1	2.35	0.41
25:2R:465:GLU:HG2	46:EH:79:GLY:HA2	2.03	0.41
14:2V:24:ARG:NE	45:ME:430:LYS:HE2	2.35	0.41
14:2V:95:SER:O	14:2V:95:SER:OG	2.33	0.41
14:2V:106:TYR:HB2	45:LE:420:GLU:OE1	2.21	0.41
14:2V:137:ASN:HD22	14:2V:137:ASN:N	2.18	0.41
26:2W:221:LYS:HA	26:2W:224:GLU:CD	2.46	0.41
16:3B:201:TYR:HA	16:3B:266:LYS:HE3	2.02	0.41
27:3C:225:THR:HG23	27:3C:226:LYS:H	1.85	0.41
32:3D:19:ASN:HB3	32:3D:25:TYR:CE2	2.56	0.41
5:3E:99:ILE:HG13	5:3E:185:VAL:HG11	2.01	0.41
5:3E:168:TYR:HA	5:3E:171:VAL:HB	2.02	0.41
31:3I:263:PHE:HE2	46:GJ:294:PHE:HB3	1.84	0.41
10:3Q:80:ILE:HG23	10:3Q:160:CYS:SG	2.61	0.41
11:3S:44:LYS:HZ3	10:5Q:3:LYS:HB2	1.86	0.41
12:3T:269:LYS:HD3	13:3U:304:TRP:CE2	2.55	0.41
13:3U:42:HIS:CE1	13:3U:45:SER:H	2.38	0.41
13:3U:468:SER:HB3	13:3U:472:SER:H	1.83	0.41
14:3V:136:THR:HG22	14:3V:140:GLU:OE2	2.20	0.41
37:5E:38:VAL:HG13	37:5E:39:ASP:N	2.35	0.41
34:5R:527:ASP:OD2	34:5R:529:GLU:HG3	2.21	0.41
35:5S:180:VAL:HA	35:5S:183:TYR:CE2	2.55	0.41
10:6Q:109:GLN:HE22	10:6Q:120:THR:HB	1.86	0.41
34:6R:66:THR:HG22	46:MN:39:ASP:O	2.19	0.41
34:6R:149:GLN:HB3	34:6R:159:TYR:CD1	2.56	0.41
46:AD:8:GLN:OE1	46:AD:17:GLY:HA3	2.21	0.41
45:AG:88:HIS:ND1	45:AG:90:GLU:HG3	2.36	0.41
45:AG:288:VAL:HA	45:AG:291:ILE:HG22	2.01	0.41
45:AK:51:THR:HG22	45:AK:52:PHE:CD2	2.55	0.41
46:AL:66:MET:CE	46:AL:147:MET:HG2	2.51	0.41
45:AM:49:PHE:O	45:AM:53:PHE:N	2.46	0.41
45:AM:91:GLN:NE2	45:AM:125:LEU:HD21	2.35	0.41
46:AN:1:MET:O	46:AN:2:ARG:HG2	2.20	0.41
46:AN:9:GLY:HA2	46:AN:66:MET:O	2.20	0.41
45:BA:79:ARG:HE	45:BA:92:LEU:HD22	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BA:177:VAL:HG13	46:BB:327:ASP:OD2	2.21	0.41
45:BA:220:GLU:CD	45:BA:221:ARG:HG2	2.45	0.41
46:BB:73:MET:SD	46:BB:90:PHE:HB3	2.61	0.41
45:BC:393:HIS:O	45:BC:397:LEU:HD23	2.20	0.41
46:BD:36:TYR:CE2	46:BD:44:LEU:HG	2.56	0.41
46:BD:173:PRO:HD3	46:BD:380:ARG:CZ	2.51	0.41
46:BF:86:ARG:HH21	46:BF:87:PRO:CG	2.33	0.41
46:BF:148:GLY:O	46:BF:152:ILE:HG12	2.19	0.41
46:BF:345:ILE:O	46:BF:345:ILE:HG13	2.19	0.41
45:BG:414:GLU:HB3	45:BG:417:GLU:OE2	2.21	0.41
45:BI:224:TYR:CE2	46:BJ:323:THR:HG21	2.56	0.41
45:BK:22:GLU:O	45:BK:26:LEU:HD23	2.20	0.41
46:BL:3:GLU:HB2	46:BL:49:VAL:O	2.20	0.41
46:BL:201:VAL:HG22	46:BL:266:PHE:O	2.20	0.41
45:CC:105:ARG:HE	45:CC:411:GLU:CD	2.28	0.41
45:CC:242:LEU:HD21	45:CC:251:ASP:HA	2.02	0.41
46:CD:65:LEU:HD22	46:CD:90:PHE:CE1	2.55	0.41
46:CD:201:VAL:HG23	46:CD:301:CYS:SG	2.59	0.41
46:CF:21:TRP:CZ2	46:CF:63:ALA:HB2	2.55	0.41
45:CG:121:ARG:HA	45:CG:121:ARG:CZ	2.50	0.41
45:CK:152:LEU:HD12	45:CK:152:LEU:HA	1.94	0.41
46:CL:2:ARG:H	46:CL:129:CYS:HB3	1.86	0.41
46:DF:215:LEU:O	46:DF:216:LYS:HG2	2.21	0.41
46:DJ:108:GLU:O	46:DJ:111:GLU:HG3	2.19	0.41
46:DL:383:GLU:OE1	46:DL:384:GLN:NE2	2.54	0.41
45:EA:210:TYR:CE1	45:EA:227:LEU:HD11	2.56	0.41
45:EC:27:GLU:CD	45:EC:243:ARG:HH12	2.29	0.41
46:ED:133:PHE:HD1	46:ED:164:MET:HE1	1.82	0.41
46:EF:68:LEU:HB3	46:EF:96:GLY:HA2	2.03	0.41
46:EH:200:MET:HE1	46:EH:266:PHE:CD1	2.55	0.41
45:EI:196:GLU:N	45:EI:196:GLU:OE1	2.54	0.41
46:EJ:179:VAL:HG23	46:EJ:180:VAL:HG13	2.02	0.41
46:EJ:186:THR:HA	46:EJ:415:MET:HE1	2.02	0.41
46:EJ:326:VAL:O	46:EJ:330:MET:HG2	2.20	0.41
45:EK:254:GLU:OE1	46:EL:99:ASN:ND2	2.53	0.41
46:EL:133:PHE:HB2	46:EL:164:MET:CE	2.51	0.41
46:EL:135:ILE:HG13	46:EL:152:ILE:CD1	2.49	0.41
46:EL:294:PHE:HD1	46:EL:333:VAL:HG21	1.86	0.41
46:EN:226:ASN:ND2	49:EN:501:GDP:HN1	2.19	0.41
45:FA:107:HIS:ND1	45:FA:107:HIS:O	2.54	0.41
45:FA:119:LEU:HD11	45:FA:156:ARG:HH11	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FB:241:ARG:HH22	46:FB:318:ARG:NH2	2.18	0.41
45:FC:11:GLN:O	45:FC:15:GLN:HG2	2.19	0.41
45:FE:100:ALA:HB1	46:FF:252:LYS:HA	2.01	0.41
45:FE:101:ASN:HA	45:FE:144:GLY:H	1.84	0.41
46:FH:135:ILE:HG13	46:FH:152:ILE:HD11	2.02	0.41
45:FI:260:VAL:O	45:FI:260:VAL:HG23	2.20	0.41
46:FN:66:MET:CE	46:FN:151:LEU:HD11	2.49	0.41
46:FN:148:GLY:O	46:FN:152:ILE:HG13	2.20	0.41
45:GA:88:HIS:CE1	45:GA:121:ARG:HH22	2.39	0.41
45:GA:99:ALA:O	45:GA:105:ARG:NE	2.53	0.41
45:GA:320:ARG:NH1	45:GA:360:PRO:HA	2.36	0.41
46:GB:148:GLY:O	46:GB:152:ILE:HG12	2.20	0.41
45:GC:222:PRO:O	46:GD:322:SER:HB2	2.20	0.41
46:GD:284:LEU:HD12	46:GD:363:MET:HB2	2.03	0.41
46:GF:21:TRP:CH2	46:GF:61:PRO:HB3	2.54	0.41
46:GF:378:PHE:HB3	46:GF:415:MET:HE3	2.02	0.41
46:GH:73:MET:HA	46:GH:76:VAL:HG12	2.01	0.41
46:GH:102:ALA:HB2	46:GH:403:MET:HE2	2.01	0.41
45:GI:231:ILE:O	45:GI:235:ILE:HG12	2.20	0.41
45:GI:317:MET:HE3	45:GI:317:MET:HB3	1.94	0.41
46:GJ:317:PHE:HB3	46:GJ:321:MET:HE1	2.02	0.41
45:HC:118:CYS:O	45:HC:122:ILE:HG13	2.21	0.41
45:HE:288:VAL:HA	45:HE:291:ILE:HG12	2.01	0.41
46:HF:36:TYR:CE2	46:HF:44:LEU:HG	2.55	0.41
45:HG:60:LYS:HD2	45:IG:283:HIS:NE2	2.35	0.41
45:HI:345:ASP:OD1	45:HI:439:THR:HG22	2.20	0.41
46:HL:391:ARG:HA	46:HL:391:ARG:HD2	1.79	0.41
45:HM:387:VAL:HA	45:HM:390:ARG:HG2	2.01	0.41
45:IA:175:PRO:HD3	45:IA:205:ASP:OD2	2.20	0.41
46:IB:156:ARG:HA	46:IB:156:ARG:HD2	1.74	0.41
45:IC:105:ARG:HG2	45:IC:411:GLU:HG2	2.02	0.41
45:IC:311:LYS:O	45:IC:381:SER:HB2	2.21	0.41
45:IC:431:ASP:O	45:IC:435:VAL:HG12	2.20	0.41
46:ID:87:PRO:HA	46:ID:90:PHE:CD2	2.55	0.41
45:IE:387:VAL:HG12	45:IE:390:ARG:CZ	2.50	0.41
45:IG:372:MET:HE2	45:IG:372:MET:HB2	1.94	0.41
46:IH:184:ASN:OD1	46:IH:185:ALA:N	2.53	0.41
45:II:8:HIS:HB2	45:II:67:PHE:HD1	1.85	0.41
46:IJ:86:ARG:CD	45:JG:283:HIS:HB2	2.50	0.41
46:IJ:187:LEU:HD11	46:IJ:408:PHE:CE2	2.55	0.41
45:IK:150:GLY:O	45:IK:154:LEU:HD23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:IL:290:THR:HA	46:IL:293:MET:HE2	2.02	0.41
45:IM:3:GLU:HG3	45:IM:129:CYS:HB2	2.03	0.41
45:IM:296:PHE:HE1	45:IM:317:MET:HE1	1.85	0.41
46:IN:3:GLU:O	46:IN:4:ILE:HD13	2.20	0.41
46:IN:125:GLU:HA	46:IN:125:GLU:OE1	2.20	0.41
46:IN:288:GLU:HA	46:IN:291:GLN:HG3	2.02	0.41
45:JE:227:LEU:O	45:JE:231:ILE:HG12	2.21	0.41
46:JF:304:ASP:OD1	46:JF:306:ARG:NH1	2.53	0.41
46:JF:372:THR:HA	46:JF:422:TYR:CE2	2.53	0.41
46:JH:69:GLU:HA	46:JH:70:PRO:HD3	1.89	0.41
46:JJ:175:VAL:O	46:JJ:175:VAL:HG23	2.21	0.41
46:JL:100:ASN:ND2	46:JL:103:LYS:HG3	2.36	0.41
46:JN:16:ILE:HD13	46:JN:226:ASN:OD1	2.20	0.41
46:JN:73:MET:SD	46:JN:90:PHE:HD1	2.44	0.41
46:JN:116:VAL:HA	46:JN:119:VAL:HG22	2.01	0.41
46:JN:139:LEU:HA	46:JN:145:SER:HB3	2.02	0.41
46:JN:316:LEU:HB3	46:JN:366:THR:OG1	2.21	0.41
45:KC:20:CYS:HA	45:KC:232:ALA:HB1	2.02	0.41
46:KD:68:LEU:HG	46:KD:143:THR:OG1	2.20	0.41
46:KF:325:GLU:HG2	46:KF:326:VAL:N	2.36	0.41
45:KG:51:THR:HG21	45:KG:243:ARG:HB3	2.02	0.41
46:KH:177:ASP:OD1	46:KH:178:THR:HG23	2.20	0.41
46:KJ:248:SER:HA	46:KJ:252:LYS:HD2	2.01	0.41
46:KJ:390:ARG:HD2	46:KJ:390:ARG:HA	1.82	0.41
45:KK:20:CYS:HA	45:KK:232:ALA:HB1	2.03	0.41
45:LC:183:GLU:HG2	45:LC:184:PRO:HD3	2.01	0.41
45:LC:210:TYR:CE1	45:LC:227:LEU:HD21	2.55	0.41
46:LD:190:HIS:NE2	46:LD:410:GLU:OE1	2.53	0.41
46:LF:121:ARG:O	46:LF:125:GLU:HG2	2.20	0.41
46:LH:3:GLU:HG3	46:LH:62:ARG:HH12	1.86	0.41
45:LK:100:ALA:O	46:LL:255:VAL:HG11	2.20	0.41
45:LK:288:VAL:HA	45:LK:291:ILE:CG1	2.48	0.41
46:LL:298:ASN:C	46:LL:298:ASN:ND2	2.79	0.41
46:LL:313:ALA:HB1	46:LL:367:PHE:HE1	1.85	0.41
45:LM:179:THR:O	46:LN:350:LYS:HA	2.20	0.41
45:MA:66:VAL:HG11	45:MA:122:ILE:HD11	2.03	0.41
45:MA:149:LEU:O	45:MA:153:LEU:HD23	2.20	0.41
45:MA:186:ASN:OD1	45:MA:187:SER:N	2.54	0.41
45:MA:220:GLU:CD	45:MA:221:ARG:HG2	2.44	0.41
46:MJ:167:PHE:CZ	46:MJ:233:MET:HG3	2.56	0.41
45:MK:17:GLY:HA2	45:MK:20:CYS:SG	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MK:169:PHE:HB3	45:MK:204:LEU:HD11	2.03	0.41
45:MM:415:GLU:OE1	45:MM:415:GLU:HA	2.20	0.41
46:MN:6:HIS:O	46:MN:63:ALA:HA	2.19	0.41
46:MN:381:VAL:HG13	46:MN:415:MET:HE1	2.03	0.41
45:NA:206:ASN:O	45:NA:210:TYR:HD1	2.03	0.41
45:NA:396:ASP:HB2	45:NA:422:ARG:HH22	1.85	0.41
45:NA:434:GLU:O	45:NA:437:ILE:HG22	2.20	0.41
45:NE:336:LYS:HE3	45:NE:351:PHE:HE2	1.84	0.41
45:NE:411:GLU:N	45:NE:411:GLU:OE2	2.54	0.41
45:NE:422:ARG:HA	45:NE:422:ARG:HD2	1.91	0.41
46:NF:154:LYS:HE2	46:NF:154:LYS:HB2	1.80	0.41
46:NH:214:THR:HG23	46:NH:215:LEU:HD22	2.01	0.41
46:NH:229:VAL:HG12	46:NH:233:MET:HE2	2.03	0.41
45:NI:288:VAL:HA	45:NI:291:ILE:HG12	2.03	0.41
46:NJ:2:ARG:HB2	46:NJ:131:GLN:HG3	2.03	0.41
46:NJ:148:GLY:O	46:NJ:152:ILE:HG12	2.20	0.41
45:NK:177:VAL:HG22	45:NK:207:GLU:HG3	2.02	0.41
46:NL:10:GLY:O	46:NL:14:ASN:ND2	2.53	0.41
46:NL:284:LEU:HB3	46:NL:289:LEU:HD21	2.02	0.41
46:NN:257:LEU:O	46:NN:259:PRO:HD3	2.20	0.41
45:OA:252:ILE:HD12	45:OA:252:ILE:H	1.85	0.41
46:OD:257:LEU:HD21	46:OD:314:SER:HB3	2.01	0.41
45:OE:306:ASP:OD1	45:OE:308:ARG:HG2	2.20	0.41
46:OH:69:GLU:HA	46:OH:70:PRO:HD3	1.91	0.41
45:OI:67:PHE:HD2	45:OI:92:LEU:HD22	1.85	0.41
45:OI:224:TYR:HE1	46:OJ:323:THR:HG1	1.66	0.41
45:OI:254:GLU:HA	45:OI:254:GLU:OE1	2.21	0.41
46:OJ:309:ARG:NH2	46:OJ:342:VAL:HG23	2.36	0.41
45:OK:10:GLY:O	45:OK:14:ILE:HG12	2.20	0.41
45:OK:46:ASP:OD1	45:OK:47:ASP:N	2.54	0.41
46:OL:253:LEU:O	46:OL:257:LEU:HB2	2.20	0.41
46:OL:309:ARG:NH1	46:OL:339:SER:O	2.54	0.41
46:ON:26:ASP:OD2	46:ON:27:GLU:N	2.53	0.41
46:ON:178:THR:HG22	46:ON:180:VAL:H	1.85	0.41
46:PB:326:VAL:O	46:PB:330:MET:HG2	2.20	0.41
46:PD:249:ASP:OD1	46:PD:252:LYS:HG3	2.20	0.41
46:PD:347:ASN:C	46:PD:347:ASN:HD22	2.26	0.41
46:PD:407:GLU:O	46:PD:410:GLU:HG3	2.20	0.41
46:PF:210:ILE:O	46:PF:214:THR:HG22	2.20	0.41
46:PF:318:ARG:HH11	46:PF:358:PRO:HG3	1.85	0.41
46:PJ:289:LEU:O	46:PJ:293:MET:HG3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PJ:306:ARG:HD2	46:PJ:340:TYR:CE2	2.55	0.41
45:PK:166:LYS:HD2	45:PK:197:HIS:O	2.19	0.41
46:PL:140:GLY:HA2	46:PL:181:GLU:OE1	2.20	0.41
45:PM:154:LEU:HD12	45:PM:155:GLU:N	2.35	0.41
45:PM:387:VAL:O	45:PM:391:LEU:HD23	2.20	0.41
46:QF:326:VAL:O	46:QF:330:MET:HG2	2.20	0.41
46:QH:1:MET:HG2	46:QH:2:ARG:N	2.35	0.41
45:QK:83:TYR:HB3	45:QK:86:LEU:HD12	2.03	0.41
46:QL:165:GLU:OE1	46:QL:198:GLU:HG3	2.21	0.41
46:QL:239:CYS:SG	46:QL:247:ASN:HA	2.60	0.41
46:QN:289:LEU:HD13	46:QN:365:VAL:HG23	2.02	0.41
46:RB:3:GLU:HG3	46:RB:62:ARG:NH1	2.36	0.41
45:RC:378:ILE:HG13	45:RC:378:ILE:O	2.20	0.41
45:RE:275:ILE:HA	45:RE:368:LEU:HD11	2.02	0.41
45:RG:119:LEU:HA	45:RG:122:ILE:HG12	2.02	0.41
45:RG:269:LEU:HG	45:RG:301:MET:HE2	2.02	0.41
46:RJ:74:ASP:OD1	46:RJ:77:ARG:NH2	2.52	0.41
45:RM:231:ILE:O	45:RM:235:ILE:HG12	2.20	0.41
45:SA:141:VAL:HG12	45:SA:171:ILE:O	2.20	0.41
45:SA:141:VAL:HG22	45:SA:187:SER:HA	2.03	0.41
45:SC:121:ARG:HH11	45:SC:124:LYS:HE2	1.86	0.41
46:SD:201:VAL:HG12	46:SD:266:PHE:O	2.20	0.41
45:SE:229:ARG:HE	45:SE:363:VAL:HG12	1.84	0.41
46:SH:173:PRO:HG2	46:SH:380:ARG:HD3	2.02	0.41
46:SJ:8:GLN:O	46:SJ:66:MET:HG2	2.20	0.41
46:SJ:36:TYR:CE2	46:SJ:44:LEU:HD11	2.55	0.41
46:SL:166:THR:HG1	46:SL:199:CYS:HG	1.56	0.41
45:SM:189:LEU:HD21	45:SM:413:MET:HE1	2.03	0.41
46:TB:3:GLU:HA	46:TB:49:VAL:HG13	2.01	0.41
46:TB:257:LEU:HA	46:TB:312:THR:HG21	2.02	0.41
45:TC:174:SER:OG	45:TC:207:GLU:HB2	2.20	0.41
45:TC:287:SER:HA	45:TC:373:ARG:HH12	1.86	0.41
46:TD:258:ILE:O	46:TD:258:ILE:HG13	2.20	0.41
45:TE:165:SER:C	45:TE:166:LYS:HD3	2.45	0.41
45:TG:103:PHE:H	45:TG:408:TYR:HE2	1.66	0.41
45:TG:141:VAL:HG11	45:TG:172:TYR:HD1	1.84	0.41
45:TG:372:MET:SD	45:TG:372:MET:N	2.91	0.41
46:TH:245:GLN:C	46:TH:246:LEU:HD12	2.45	0.41
46:TH:258:ILE:HG23	46:TH:266:PHE:HZ	1.86	0.41
46:TH:350:LYS:HA	45:TI:179:THR:O	2.21	0.41
45:TK:383:ALA:O	45:TK:386:GLU:HG2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TL:113:ILE:HA	46:TL:116:VAL:HG12	2.02	0.41
45:TM:331:SER:O	45:TM:335:ILE:HG12	2.21	0.41
46:TN:201:VAL:HG22	46:TN:266:PHE:O	2.20	0.41
46:UB:1:MET:O	46:UB:2:ARG:HG2	2.20	0.41
45:UC:393:HIS:O	45:UC:397:LEU:HG	2.21	0.41
46:UD:39:ASP:OD2	46:UD:40:SER:N	2.54	0.41
45:UG:133:GLN:O	45:UG:164:LYS:HE3	2.20	0.41
45:UG:425:LEU:HD23	45:UG:425:LEU:HA	1.80	0.41
46:UH:69:GLU:HA	46:UH:70:PRO:HD3	1.86	0.41
46:UH:122:LYS:HA	46:UH:122:LYS:HE2	2.02	0.41
46:UH:330:MET:HE3	46:UH:349:ILE:HG22	2.03	0.41
46:UH:395:LEU:O	46:UH:399:THR:HG23	2.20	0.41
45:UK:152:LEU:O	45:UK:155:GLU:HG3	2.20	0.41
45:UM:103:PHE:CD2	45:UM:413:MET:HE1	2.55	0.41
45:VA:387:VAL:HG12	45:VA:390:ARG:NH2	2.24	0.41
46:VB:188:SER:O	46:VB:192:LEU:HD23	2.20	0.41
46:VD:121:ARG:O	46:VD:124:ALA:N	2.53	0.41
46:VD:312:THR:HG22	46:VD:370:ASN:HB3	2.01	0.41
46:VF:226:ASN:ND2	49:VF:501:GDP:HN1	2.03	0.41
46:VH:20:PHE:CE1	46:VH:233:MET:HB3	2.54	0.41
46:VH:41:ASP:OD1	46:VH:42:LEU:HD12	2.19	0.41
46:VH:201:VAL:HG23	46:VH:301:CYS:SG	2.60	0.41
46:VH:321:MET:SD	46:VH:363:MET:HG3	2.61	0.41
46:VJ:261:PRO:HG2	46:VJ:262:ARG:NH1	2.35	0.41
45:VK:2:ARG:O	45:VK:51:THR:HA	2.19	0.41
46:VN:12:CYS:HB3	46:VN:138:SER:HB2	2.03	0.41
46:VN:267:MET:HE1	46:VN:374:ILE:CD1	2.50	0.41
45:WA:317:MET:HG3	45:WA:377:MET:HB3	2.01	0.41
45:WA:317:MET:N	45:WA:317:MET:SD	2.93	0.41
46:WB:306:ARG:NH1	46:WB:337:ASN:OD1	2.48	0.41
45:WC:434:GLU:O	45:WC:437:ILE:HG12	2.21	0.41
46:WD:21:TRP:CZ3	46:WD:61:PRO:HB3	2.55	0.41
45:WG:73:THR:O	45:WG:76:ASP:HB2	2.20	0.41
45:WI:101:ASN:HA	45:WI:144:GLY:H	1.85	0.41
46:WJ:17:GLY:HA2	46:WJ:20:PHE:HB3	2.01	0.41
46:WL:67:ASP:HB3	46:WL:73:MET:HE2	2.02	0.41
46:WN:173:PRO:HD2	46:WN:380:ARG:NH2	2.36	0.41
45:DC:63:PRO:HG2	45:DC:87:PHE:HE2	1.83	0.41
3:0C:97:LYS:O	3:0C:100:LEU:HG	2.20	0.41
5:0E:52:LEU:HD12	5:0E:52:LEU:H	1.85	0.41
7:0G:13:TYR:HD1	7:0G:17:VAL:HG11	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:0H:339:LYS:HD3	8:0H:339:LYS:HA	1.77	0.41
10:0Q:87:TYR:OH	10:0Q:156:ILE:HD11	2.19	0.41
11:0S:158:TRP:CG	11:0S:162:PRO:HG3	2.56	0.41
12:0T:109:CYS:HB3	12:0T:128:GLU:CD	2.44	0.41
14:0V:238:LYS:HD2	14:0V:238:LYS:HA	1.77	0.41
4:1D:14:TYR:CE2	4:1D:16:GLY:HA3	2.56	0.41
7:1G:146:LYS:HE2	7:1G:146:LYS:HB2	1.83	0.41
8:1H:344:SER:O	8:1H:347:ARG:HG2	2.20	0.41
18:1I:139:ARG:HD2	18:1I:141:PHE:CE1	2.55	0.41
20:1K:111:LYS:HA	20:1K:114:GLN:CD	2.45	0.41
20:1K:243:GLU:O	20:1K:246:LYS:HG2	2.20	0.41
21:1L:279:VAL:HG21	21:1L:348:ILE:HD11	2.01	0.41
21:1L:544:LYS:HG3	21:1L:578:ASN:CG	2.46	0.41
21:1L:649:PHE:HZ	46:CD:320:ARG:NH2	2.18	0.41
22:1M:338:ARG:HE	22:1M:350:ILE:HG23	1.84	0.41
24:1P:200:LEU:O	24:1P:201:GLU:C	2.63	0.41
24:1P:291:LYS:HA	24:1P:294:GLU:OE2	2.20	0.41
10:1Q:87:TYR:CD2	10:1Q:123:MET:HE1	2.55	0.41
25:1R:87:LEU:HA	45:MC:85:GLN:HE22	1.86	0.41
25:1R:158:LEU:HG	25:1R:166:TYR:CE1	2.56	0.41
25:1R:468:ARG:HD3	25:1R:478:TYR:CE2	2.55	0.41
11:1S:32:LYS:HD3	11:1S:33:ASN:N	2.35	0.41
11:1S:213:ILE:HA	11:1S:216:LYS:HZ3	1.86	0.41
11:1S:235:GLN:HG3	11:1S:290:THR:HG22	2.02	0.41
13:1U:364:GLU:N	13:1U:382:ASN:OD1	2.40	0.41
13:1U:475:ILE:HG23	13:1U:483:ARG:NH1	2.34	0.41
13:1U:512:ARG:NH1	13:1U:532:GLU:O	2.54	0.41
14:1V:105:LYS:HA	14:1V:105:LYS:HD2	1.87	0.41
15:1X:49:ILE:HG12	45:ME:282:TYR:CD2	2.56	0.41
15:1X:78:ASN:HD22	46:MF:280:GLN:NE2	2.18	0.41
4:2D:171:LEU:HD23	4:2D:171:LEU:H	1.85	0.41
28:2F:85:MET:HE3	45:GE:114:ILE:HD11	2.02	0.41
20:2K:460:LEU:HD12	20:2K:461:ARG:N	2.35	0.41
21:2L:786:ASP:H	21:2L:789:GLN:HG2	1.84	0.41
22:2M:270:PHE:C	22:2M:271:PHE:HD1	2.29	0.41
9:2N:30:MET:O	9:2N:34:LEU:HD23	2.20	0.41
23:2O:139:ASP:HA	23:2O:141:LYS:HZ3	1.84	0.41
23:2O:230:ARG:O	23:2O:233:GLN:HG3	2.21	0.41
24:2P:412:LYS:HD3	24:2P:412:LYS:N	2.34	0.41
24:2P:473:LYS:HA	24:2P:473:LYS:HD2	1.87	0.41
10:2Q:133:GLN:N	10:2Q:133:GLN:OE1	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:2R:248:GLN:H	45:BG:58:ALA:HB2	1.85	0.41
13:2U:252:ILE:HG23	13:2U:264:LEU:HB2	2.03	0.41
13:2U:371:MET:CG	13:2U:375:LYS:HB2	2.51	0.41
16:3B:233:TYR:CE2	16:3B:237:LYS:HD2	2.56	0.41
32:3D:132:SER:O	32:3D:136:ILE:HG22	2.21	0.41
32:3D:188:LYS:HA	32:3D:191:GLU:OE1	2.20	0.41
23:3O:413:GLN:O	23:3O:417:GLU:HG2	2.21	0.41
25:3R:180:PHE:HB2	25:3R:185:PHE:HE2	1.84	0.41
11:3S:218:ALA:O	11:3S:221:THR:HG22	2.20	0.41
12:3T:74:ILE:HD12	45:MK:159:VAL:CG2	2.51	0.41
13:3U:371:MET:HE2	13:3U:420:ILE:HD11	2.02	0.41
13:3U:605:PRO:O	13:3U:608:VAL:HG22	2.19	0.41
14:3V:234:THR:HG22	14:3V:237:LEU:HD23	2.01	0.41
34:4R:181:VAL:HG11	34:4R:204:VAL:CG1	2.51	0.41
15:4X:87:ASP:HA	15:4X:90:ARG:CZ	2.49	0.41
36:5A:67:ALA:HA	36:5A:70:MET:HE2	2.01	0.41
36:5B:109:ASN:CG	45:KE:390:ARG:HG2	2.45	0.41
35:5S:210:LYS:HG3	35:5S:212:GLU:OE2	2.21	0.41
40:6G:137:GLN:HB2	45:VG:338:LYS:HZ1	1.85	0.41
41:6H:330:GLU:N	41:6H:330:GLU:OE1	2.54	0.41
34:6R:206:ASN:ND2	34:6R:210:GLU:OE2	2.39	0.41
34:7R:339:MET:CE	34:7R:346:ASP:HB3	2.51	0.41
34:7R:396:ASP:OD1	46:EB:218:THR:OG1	2.39	0.41
45:AC:35:GLN:NE2	45:AC:60:LYS:HB3	2.35	0.41
46:AD:256:ASN:OD1	46:AD:256:ASN:O	2.38	0.41
46:AD:402:GLY:O	46:AD:403:MET:HE2	2.21	0.41
45:AE:205:ASP:OD1	45:AE:303:ALA:HA	2.20	0.41
46:AF:214:THR:HG22	46:AF:297:LYS:HE2	2.01	0.41
45:AG:71:GLU:OE2	46:AH:247:ASN:ND2	2.53	0.41
45:AI:21:TRP:CZ2	45:AI:65:ALA:HB2	2.56	0.41
45:AI:265:ILE:HD13	45:AI:432:TYR:CE1	2.55	0.41
45:AK:35:GLN:HG2	45:AK:60:LYS:HG2	2.02	0.41
45:AK:384:ILE:O	45:AK:387:VAL:HG22	2.21	0.41
46:AL:1:MET:O	46:AL:2:ARG:HG2	2.19	0.41
46:AN:6:HIS:O	46:AN:63:ALA:HA	2.20	0.41
46:AN:103:LYS:HB3	46:AN:103:LYS:HE2	1.90	0.41
45:BA:79:ARG:NH2	45:BA:92:LEU:HB2	2.30	0.41
46:BD:164:MET:CE	46:BD:196:ALA:HA	2.50	0.41
45:BE:164:LYS:HG3	45:BE:165:SER:N	2.35	0.41
46:BF:175:VAL:O	46:BF:175:VAL:HG23	2.20	0.41
45:BI:3:GLU:HG2	45:BI:132:LEU:HA	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BI:377:MET:HE1	45:BI:379:SER:HB3	2.03	0.41
46:BJ:87:PRO:HD2	46:CH:281:TYR:CE1	2.55	0.41
46:BJ:113:ILE:HB	46:BJ:117:LEU:HD23	2.02	0.41
46:BJ:270:PHE:HD2	46:BJ:273:LEU:HD21	1.85	0.41
45:BK:8:HIS:ND1	45:BK:17:GLY:HA3	2.36	0.41
46:BL:187:LEU:HD11	46:BL:408:PHE:CE1	2.55	0.41
46:BN:66:MET:CE	46:BN:147:MET:HE2	2.50	0.41
46:CD:289:LEU:HD23	46:CD:289:LEU:HA	1.79	0.41
46:CF:1:MET:O	46:CF:2:ARG:HG2	2.20	0.41
45:CG:107:HIS:O	45:CG:107:HIS:ND1	2.53	0.41
45:CG:152:LEU:HD12	45:CG:152:LEU:HA	1.95	0.41
46:CH:267:MET:HE2	46:CH:374:ILE:HD11	2.03	0.41
46:CH:377:MET:HB2	46:CH:377:MET:HE3	1.77	0.41
45:CI:182:VAL:O	45:CI:182:VAL:HG22	2.20	0.41
46:CL:69:GLU:HA	46:CL:70:PRO:HD3	1.90	0.41
46:CL:130:LEU:HD12	46:CL:130:LEU:HA	1.91	0.41
45:CM:304:LYS:HB2	45:CM:304:LYS:HE2	1.90	0.41
46:DB:42:LEU:HD13	46:DB:45:GLU:OE1	2.21	0.41
45:DE:200:VAL:HG13	45:DE:268:MET:SD	2.60	0.41
46:DH:237:THR:HG23	46:DH:241:ARG:HH21	1.84	0.41
46:DH:324:LYS:O	46:DH:328:GLU:HG2	2.19	0.41
46:DH:418:LEU:O	46:DH:422:TYR:HB2	2.21	0.41
45:DI:238:LEU:HD12	45:DI:238:LEU:HA	1.87	0.41
45:DI:322:ASP:OD2	45:DI:373:ARG:NH1	2.49	0.41
46:DJ:204:ASN:OD1	49:DJ:501:GDP:O2'	2.29	0.41
45:DK:287:SER:O	45:DK:291:ILE:HG23	2.21	0.41
45:DK:392:ASP:OD2	45:DK:422:ARG:NH2	2.53	0.41
45:DK:411:GLU:N	45:DK:411:GLU:OE2	2.53	0.41
45:DM:175:PRO:HB2	45:DM:176:GLN:OE1	2.20	0.41
45:DM:280:LYS:O	45:DM:280:LYS:HG3	2.21	0.41
45:DM:286:LEU:HD13	45:DM:371:VAL:HG23	2.02	0.41
46:DN:116:VAL:HA	46:DN:119:VAL:HG12	2.03	0.41
46:DN:288:GLU:O	46:DN:291:GLN:HG3	2.20	0.41
46:DN:396:HIS:HA	46:DN:399:THR:OG1	2.21	0.41
45:EC:260:VAL:HG13	45:EC:265:ILE:O	2.21	0.41
45:EC:338:LYS:HZ2	45:EC:339:ARG:N	2.18	0.41
46:EF:257:LEU:HD11	46:EF:314:SER:HB2	2.03	0.41
45:EG:184:PRO:O	45:EG:188:ILE:HG12	2.20	0.41
46:EH:164:MET:O	46:EH:197:ASP:HB2	2.20	0.41
45:EI:200:VAL:HG13	45:EI:268:MET:SD	2.61	0.41
46:EJ:135:ILE:HG13	46:EJ:152:ILE:CD1	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EM:7:ILE:HG22	45:EM:66:VAL:HG12	2.02	0.41
45:FA:372:MET:N	45:FA:372:MET:SD	2.93	0.41
45:FA:420:GLU:HG2	45:FA:421:ALA:N	2.36	0.41
46:FD:52:ASN:OD1	46:FD:62:ARG:NH2	2.53	0.41
46:FD:210:ILE:HG22	46:FD:297:LYS:O	2.21	0.41
46:FF:201:VAL:HG12	46:FF:266:PHE:O	2.20	0.41
45:FG:107:HIS:ND1	45:FG:107:HIS:O	2.54	0.41
45:FG:260:VAL:HG13	45:FG:265:ILE:O	2.20	0.41
46:FH:125:GLU:OE2	46:GH:336:LYS:NZ	2.54	0.41
46:FL:290:THR:HA	46:FL:293:MET:HB3	2.03	0.41
46:FL:314:SER:HA	46:FL:350:LYS:HB3	2.02	0.41
46:FN:24:ILE:HG23	46:FN:241:ARG:HH12	1.85	0.41
46:FN:46:ARG:HG3	46:FN:49:VAL:HG23	2.03	0.41
45:GC:188:ILE:HG22	45:GC:421:ALA:HB1	2.03	0.41
46:GD:293:MET:HG3	46:GD:365:VAL:HG11	2.03	0.41
45:GE:153:LEU:O	45:GE:157:LEU:HG	2.21	0.41
45:GE:223:THR:OG1	45:GE:224:TYR:N	2.51	0.41
46:GF:316:LEU:HB2	46:GF:366:THR:OG1	2.20	0.41
46:GF:409:THR:O	46:GF:412:GLU:HG3	2.21	0.41
46:GH:9:GLY:HA2	46:GH:66:MET:O	2.20	0.41
46:GH:167:PHE:HD1	46:GH:202:ILE:HD11	1.86	0.41
46:GH:293:MET:CE	46:GH:365:VAL:HG11	2.40	0.41
46:GJ:105:HIS:CE1	46:GJ:150:LEU:HD12	2.55	0.41
45:GK:35:GLN:HE22	45:GK:59:GLY:HA2	1.85	0.41
45:GK:201:ALA:HB3	45:GK:267:PHE:CD1	2.55	0.41
45:GK:224:TYR:O	45:GK:228:ASN:ND2	2.53	0.41
45:HA:268:MET:HE3	45:HA:380:ASN:HB2	2.03	0.41
46:HB:173:PRO:HG2	46:HB:380:ARG:HD3	2.03	0.41
46:HD:6:HIS:NE2	46:HD:8:GLN:HB3	2.35	0.41
46:HD:131:GLN:HE22	46:HD:240:LEU:HD11	1.85	0.41
46:HF:301:CYS:SG	46:HF:302:ALA:N	2.94	0.41
45:HG:91:GLN:HB3	45:HG:121:ARG:NH2	2.35	0.41
45:HI:176:GLN:NE2	45:HI:177:VAL:HG23	2.36	0.41
45:HK:35:GLN:NE2	45:HK:60:LYS:HB3	2.35	0.41
45:HK:178:SER:HB2	45:HK:183:GLU:OE1	2.21	0.41
45:HM:20:CYS:HA	45:HM:232:ALA:HB1	2.01	0.41
45:HM:331:SER:O	45:HM:335:ILE:HG12	2.21	0.41
46:HN:4:ILE:HG13	46:HN:132:GLY:O	2.20	0.41
46:HN:65:LEU:HD22	46:HN:90:PHE:CE1	2.56	0.41
46:HN:244:GLY:HA3	46:HN:354:CYS:HA	2.02	0.41
46:IH:309:ARG:NH1	46:IH:343:GLU:OE2	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:IJ:416:ASN:HA	46:IJ:419:VAL:HG12	2.02	0.41
45:IK:156:ARG:HA	45:IK:156:ARG:HD2	1.91	0.41
45:IK:426:ALA:O	45:IK:429:GLU:HG3	2.21	0.41
46:IL:68:LEU:HD21	46:IL:147:MET:HE1	2.02	0.41
46:IL:156:ARG:HG3	46:IL:195:ASN:HB3	2.01	0.41
45:IM:33:ASP:HA	45:IM:85:GLN:HG3	2.03	0.41
45:IM:71:GLU:HA	45:IM:72:PRO:HD3	1.84	0.41
45:IM:207:GLU:HA	45:IM:210:TYR:CD2	2.55	0.41
45:IM:401:LYS:HA	45:IM:401:LYS:HD2	1.90	0.41
46:IN:187:LEU:HD21	46:IN:408:PHE:CE1	2.56	0.41
46:IN:316:LEU:HB3	46:IN:366:THR:HG22	2.02	0.41
45:JA:21:TRP:CZ2	45:JA:65:ALA:HB2	2.56	0.41
46:JB:141:GLY:O	46:JB:145:SER:OG	2.38	0.41
46:JH:31:ASP:OD1	46:JH:34:GLY:N	2.53	0.41
46:JH:247:ASN:O	46:JH:252:LYS:NZ	2.40	0.41
46:JH:325:GLU:O	46:JH:328:GLU:HG3	2.20	0.41
45:JI:71:GLU:HG2	45:JI:71:GLU:O	2.20	0.41
45:JI:151:SER:HB2	45:JI:193:SER:OG	2.21	0.41
46:JL:3:GLU:OE1	46:JL:127:CYS:HB2	2.20	0.41
46:JL:18:ALA:O	46:JL:22:GLU:HG3	2.20	0.41
45:JM:151:SER:O	45:JM:155:GLU:OE1	2.37	0.41
45:JM:187:SER:O	45:JM:191:THR:HG23	2.20	0.41
46:KB:174:LYS:NZ	46:KB:380:ARG:HH12	2.16	0.41
46:KF:387:ALA:HA	46:KF:390:ARG:NH1	2.34	0.41
45:KG:7:ILE:HB	45:KG:137:VAL:HG12	2.01	0.41
45:KG:220:GLU:O	46:KH:324:LYS:NZ	2.53	0.41
46:KL:9:GLY:HA2	46:KL:66:MET:O	2.20	0.41
45:KM:98:ASP:OD1	45:KM:99:ALA:N	2.52	0.41
45:LA:185:TYR:HE1	45:LA:398:MET:HB3	1.85	0.41
45:LC:11:GLN:HG3	45:LC:74:VAL:HG11	2.03	0.41
45:LC:75:ILE:HA	45:LC:78:VAL:HG12	2.03	0.41
46:LD:3:GLU:HG3	46:LD:62:ARG:NH1	2.35	0.41
45:LE:196:GLU:OE1	45:LE:196:GLU:N	2.50	0.41
46:LF:8:GLN:OE1	46:LF:17:GLY:HA3	2.21	0.41
45:LG:275:ILE:HD13	45:LG:275:ILE:HA	1.92	0.41
46:LH:190:HIS:HD2	46:LH:414:ASN:HB2	1.86	0.41
46:LJ:125:GLU:OE1	46:LJ:125:GLU:N	2.54	0.41
45:LK:64:ARG:NH1	45:LK:129:CYS:SG	2.94	0.41
45:LK:292:THR:HG21	45:LK:331:SER:HB2	2.02	0.41
46:LL:117:LEU:HD11	46:LL:154:LYS:HG2	2.02	0.41
46:LL:238:CYS:SG	46:LL:239:CYS:N	2.94	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MC:210:TYR:CE1	45:MC:227:LEU:HD21	2.54	0.41
45:MC:332:ILE:HA	45:MC:335:ILE:HG22	2.02	0.41
46:MF:248:SER:HA	46:MF:252:LYS:HD2	2.02	0.41
45:MG:288:VAL:CG1	45:MG:327:ASP:HB3	2.39	0.41
45:MM:155:GLU:HG2	45:MM:197:HIS:CD2	2.56	0.41
45:NA:47:ASP:CG	45:NA:50:ASN:HB2	2.44	0.41
45:NA:141:VAL:CG1	45:NA:172:TYR:HA	2.51	0.41
45:NA:346:TRP:CE3	46:ND:391:ARG:HD3	2.55	0.41
46:NB:256:ASN:HB3	46:NB:350:LYS:CD	2.42	0.41
46:NB:268:ILE:CD1	46:NB:368:VAL:HG22	2.51	0.41
46:NB:406:MET:O	46:NB:409:THR:OG1	2.17	0.41
45:NC:71:GLU:OE1	46:ND:247:ASN:ND2	2.53	0.41
45:NC:317:MET:HE1	45:NC:351:PHE:HD1	1.85	0.41
45:NE:345:ASP:OD2	45:NE:438:GLU:HG2	2.19	0.41
46:NF:221:THR:HG23	46:NF:223:GLY:H	1.86	0.41
45:NG:371:VAL:HG22	45:NG:373:ARG:H	1.85	0.41
46:NH:68:LEU:HD23	46:NH:147:MET:HE3	2.02	0.41
45:NI:90:GLU:HG2	45:OI:280:LYS:HZ1	1.85	0.41
45:NI:386:GLU:O	45:NI:390:ARG:HG3	2.21	0.41
46:NJ:257:LEU:O	46:NJ:259:PRO:HD3	2.21	0.41
46:NL:3:GLU:OE2	46:NL:127:CYS:HB2	2.21	0.41
46:NN:184:ASN:OD1	46:NN:185:ALA:N	2.53	0.41
46:NN:309:ARG:N	46:NN:372:THR:OG1	2.50	0.41
45:OA:116:ASP:OD1	45:OA:117:LEU:N	2.52	0.41
45:OA:242:LEU:HD11	45:OA:251:ASP:OD1	2.20	0.41
45:OA:394:LYS:HE2	45:OA:394:LYS:HA	2.03	0.41
46:OB:287:PRO:O	46:OB:290:THR:HG22	2.21	0.41
46:OB:318:ARG:HD3	46:OB:358:PRO:CD	2.50	0.41
45:OG:86:LEU:HD23	45:OG:87:PHE:CE1	2.55	0.41
45:OG:326:LYS:HD2	46:OJ:220:PRO:HD2	2.03	0.41
45:OG:333:ALA:O	45:OG:337:THR:HG23	2.20	0.41
45:OI:19:ALA:HA	45:OI:22:GLU:OE1	2.20	0.41
46:OJ:318:ARG:HD3	46:OJ:358:PRO:HD3	2.01	0.41
45:OK:180:ALA:HA	46:OL:350:LYS:HD2	2.02	0.41
46:OL:175:VAL:HG22	46:OL:205:GLU:HB2	2.01	0.41
45:OM:174:SER:HB3	45:OM:207:GLU:HG2	2.03	0.41
46:PB:239:CYS:SG	46:PB:316:LEU:HD23	2.61	0.41
46:PD:3:GLU:O	46:PD:130:LEU:HD12	2.20	0.41
46:PD:288:GLU:OE2	46:PD:289:LEU:HD22	2.21	0.41
46:PD:304:ASP:OD1	46:PD:306:ARG:HG2	2.20	0.41
46:PD:375:GLN:OE1	46:PD:423:GLN:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PE:209:ILE:HG21	45:PE:227:LEU:HG	2.03	0.41
45:PE:245:ASP:N	45:PE:245:ASP:OD1	2.52	0.41
45:PG:90:GLU:O	45:PG:121:ARG:NH1	2.54	0.41
45:PG:224:TYR:CE2	46:PH:323:THR:HG21	2.55	0.41
45:PG:384:ILE:O	45:PG:387:VAL:HG22	2.21	0.41
45:PK:319:TYR:CD2	45:PK:323:VAL:HG21	2.56	0.41
45:PK:387:VAL:HG23	45:PK:390:ARG:NE	2.36	0.41
46:PL:297:LYS:HA	46:PL:297:LYS:HD3	1.88	0.41
46:PN:203:ASP:O	46:PN:207:LEU:HG	2.21	0.41
45:QA:19:ALA:HA	45:QA:22:GLU:OE1	2.19	0.41
45:QA:312:TYR:HA	45:QA:381:SER:OG	2.21	0.41
46:QB:359:LYS:HE3	46:QB:359:LYS:HB3	1.86	0.41
46:QD:9:GLY:HA2	46:QD:66:MET:O	2.20	0.41
45:QE:14:ILE:HD11	45:QE:69:ASP:HB2	2.03	0.41
45:QE:25:CYS:HB2	45:QE:30:ILE:HG23	2.03	0.41
45:QE:88:HIS:HD2	45:RE:280:LYS:NZ	2.19	0.41
46:QF:210:ILE:O	46:QF:214:THR:HG22	2.20	0.41
45:QI:167:LEU:HG	45:QI:200:VAL:HB	2.01	0.41
45:QK:188:ILE:HD11	45:QK:391:LEU:HB3	2.03	0.41
45:QK:239:THR:HG23	45:QK:243:ARG:HH21	1.85	0.41
46:QL:152:ILE:HG22	46:QL:195:ASN:ND2	2.35	0.41
45:RC:3:GLU:O	45:RC:133:GLN:N	2.31	0.41
45:RC:51:THR:HG22	45:RC:52:PHE:CD1	2.55	0.41
45:RE:350:GLY:HA2	46:RF:179:VAL:HG13	2.01	0.41
45:RG:319:TYR:HB3	45:RG:323:VAL:HG21	2.02	0.41
46:RH:380:ARG:HE	46:RH:380:ARG:HB3	1.66	0.41
46:RJ:3:GLU:OE1	46:RJ:3:GLU:N	2.51	0.41
46:RJ:6:HIS:O	46:RJ:63:ALA:HA	2.20	0.41
46:RJ:116:VAL:HA	46:RJ:119:VAL:HG12	2.02	0.41
45:RK:22:GLU:OE2	45:RK:229:ARG:NH1	2.53	0.41
45:RK:326:LYS:HB3	46:RL:208:TYR:HE1	1.85	0.41
46:RL:156:ARG:HG3	46:RL:195:ASN:HB2	2.03	0.41
46:RL:267:MET:HB2	46:RL:299:MET:HE2	2.03	0.41
45:SA:56:THR:O	45:TA:285:GLN:HB3	2.20	0.41
46:SB:19:LYS:HA	46:SB:22:GLU:HG3	2.01	0.41
46:SD:113:ILE:HA	46:SD:116:VAL:HG12	2.02	0.41
45:SE:6:SER:OG	45:SE:8:HIS:NE2	2.54	0.41
45:SE:56:THR:C	45:TE:285:GLN:HB3	2.46	0.41
45:SE:194:LEU:O	45:SE:198:THR:HG22	2.20	0.41
46:SF:99:ASN:HA	46:SF:142:GLY:N	2.30	0.41
46:SF:101:TRP:HD1	46:SF:145:SER:OG	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SG:231:ILE:O	45:SG:235:ILE:HG12	2.20	0.41
45:SG:237:SER:HA	45:SG:320:ARG:HH11	1.86	0.41
46:SH:222:TYR:CD1	46:SH:225:LEU:HD12	2.56	0.41
46:SH:246:LEU:HA	45:SI:11:GLN:HE22	1.85	0.41
45:SI:118:CYS:O	45:SI:122:ILE:HG12	2.20	0.41
45:SI:140:SER:OG	47:SI:501:GTP:O2B	2.35	0.41
45:SK:194:LEU:O	45:SK:198:THR:HG22	2.20	0.41
46:SL:67:ASP:OD1	46:SL:68:LEU:N	2.54	0.41
46:SL:376:GLU:HG2	46:SL:377:MET:N	2.34	0.41
45:TA:172:TYR:CD2	45:TA:203:MET:HG3	2.56	0.41
46:TB:67:ASP:OD1	46:TB:68:LEU:N	2.52	0.41
46:TB:403:MET:HG3	46:TB:407:GLU:OE2	2.20	0.41
46:TD:376:GLU:O	46:TD:380:ARG:HG2	2.20	0.41
45:TE:91:GLN:OE1	45:TE:91:GLN:N	2.52	0.41
45:TE:268:MET:HB2	45:TE:379:SER:O	2.19	0.41
45:TI:27:GLU:OE2	45:TI:28:HIS:CE1	2.73	0.41
46:TJ:116:VAL:O	46:TJ:119:VAL:HG12	2.19	0.41
45:TK:372:MET:HE2	45:TK:372:MET:HB2	1.94	0.41
45:TK:424:ASP:O	45:TK:428:LEU:HD23	2.20	0.41
46:TN:399:THR:HA	46:TN:403:MET:O	2.20	0.41
46:TN:406:MET:O	46:TN:410:GLU:HG3	2.20	0.41
45:UC:101:ASN:HA	45:UC:144:GLY:N	2.33	0.41
45:UC:265:ILE:HG22	45:UC:380:ASN:HD21	1.85	0.41
45:UC:284:GLU:HG2	45:UC:286:LEU:HD22	2.02	0.41
45:UE:38:SER:O	45:UE:38:SER:OG	2.32	0.41
45:UE:186:ASN:OD1	45:UE:187:SER:N	2.53	0.41
45:UE:270:SER:O	45:UE:302:MET:HB2	2.19	0.41
46:UF:183:TYR:OH	46:UF:388:MET:HB3	2.20	0.41
45:UG:387:VAL:O	45:UG:390:ARG:HG3	2.20	0.41
45:UK:167:LEU:HG	45:UK:200:VAL:HB	2.03	0.41
45:UM:196:GLU:OE1	45:UM:196:GLU:N	2.52	0.41
45:UM:304:LYS:HA	45:UM:304:LYS:HD2	1.93	0.41
45:UM:336:LYS:HA	45:UM:336:LYS:HE2	2.02	0.41
46:UN:28:HIS:C	46:UN:43:GLN:HE21	2.28	0.41
46:UN:74:ASP:OD1	46:UN:77:ARG:NH1	2.53	0.41
45:VA:75:ILE:HA	45:VA:78:VAL:HB	2.01	0.41
45:VA:175:PRO:HB2	45:VA:176:GLN:OE1	2.21	0.41
45:VA:265:ILE:HG23	45:VA:432:TYR:CZ	2.56	0.41
45:VA:426:ALA:O	45:VA:430:LYS:HG2	2.20	0.41
46:VB:63:ALA:O	46:VB:89:ASN:ND2	2.43	0.41
45:VC:259:LEU:HD23	45:VC:259:LEU:HA	1.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VC:414:GLU:CD	45:VC:416:GLY:H	2.29	0.41
45:VE:329:ASN:HA	45:VE:332:ILE:HG22	2.02	0.41
46:VH:210:ILE:HD13	46:VH:298:ASN:HA	2.02	0.41
45:VI:71:GLU:HA	45:VI:72:PRO:HD3	1.89	0.41
45:VI:387:VAL:O	45:VI:391:LEU:HD23	2.20	0.41
45:VI:427:ALA:O	45:VI:430:LYS:HG2	2.21	0.41
45:VM:64:ARG:NH1	45:VM:129:CYS:SG	2.94	0.41
45:VM:141:VAL:HG12	45:VM:171:ILE:O	2.20	0.41
46:WB:150:LEU:HB2	46:WB:154:LYS:HZ1	1.82	0.41
46:WB:201:VAL:HG22	46:WB:266:PHE:O	2.20	0.41
45:WC:235:ILE:O	45:WC:239:THR:HG22	2.20	0.41
45:WC:268:MET:HE3	45:WC:380:ASN:N	2.36	0.41
45:WE:129:CYS:SG	45:WE:130:THR:N	2.94	0.41
45:WE:176:GLN:O	46:WF:331:LEU:HD21	2.21	0.41
46:WF:273:LEU:N	46:WF:292:GLN:HE22	2.14	0.41
45:WG:117:LEU:O	45:WG:121:ARG:HD3	2.21	0.41
46:WH:141:GLY:HA3	49:WH:501:GDP:O3A	2.20	0.41
46:WH:167:PHE:CE2	46:WH:200:MET:HG3	2.56	0.41
46:WJ:326:VAL:O	46:WJ:330:MET:HG2	2.19	0.41
45:WK:242:LEU:HD11	45:WK:252:ILE:HG23	2.01	0.41
46:WL:106:TYR:HD2	46:WL:403:MET:HE1	1.86	0.41
46:WL:141:GLY:HA3	49:WL:501:GDP:O3A	2.21	0.41
45:CE:17:GLY:HA2	45:CE:20:CYS:SG	2.60	0.41
45:DC:98:ASP:OD1	45:DC:99:ALA:N	2.54	0.41
45:DC:335:ILE:HA	45:DC:338:LYS:NZ	2.35	0.41
2:0B:46:PHE:HA	2:0B:47:ALA:HB2	2.02	0.41
2:0B:142:HIS:C	2:0B:144:GLU:N	2.79	0.41
2:0B:180:ARG:NH1	2:0B:182:LEU:HD11	2.29	0.41
6:0F:20:LEU:HD12	6:0F:90:ARG:HG2	2.02	0.41
7:0G:169:THR:C	7:0G:171:THR:H	2.29	0.41
12:0T:27:ARG:HD2	12:0T:32:TYR:HB2	2.02	0.41
13:0U:223:GLU:HG2	13:0U:224:ARG:N	2.36	0.41
13:0U:265:SER:HB3	13:0U:272:LEU:HD11	2.02	0.41
13:0U:285:SER:O	13:0U:293:PHE:HB2	2.20	0.41
13:0U:357:ARG:O	13:0U:358:ILE:HD13	2.20	0.41
13:0U:419:ARG:HG2	13:0U:433:VAL:HG22	2.03	0.41
13:0U:483:ARG:O	13:0U:483:ARG:HG3	2.20	0.41
14:0V:43:THR:HG22	14:0V:45:ARG:HG3	2.02	0.41
15:0X:97:GLN:HA	15:0X:100:LYS:NZ	2.35	0.41
4:1D:20:LYS:HB3	4:1D:21:VAL:H	1.71	0.41
4:1D:20:LYS:HZ2	46:CF:53:GLU:HB3	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:1E:32:ARG:HH21	5:1E:37:TYR:HE2	1.67	0.41
17:1F:102:TYR:O	45:GI:31:GLN:NE2	2.54	0.41
8:1H:193:TYR:CE2	45:HG:370:LYS:HG2	2.56	0.41
8:1H:210:GLU:O	8:1H:214:GLU:OE1	2.39	0.41
9:1N:30:MET:HE2	9:1N:30:MET:HB2	1.95	0.41
9:1N:227:ASN:OD1	9:1N:229:PHE:N	2.47	0.41
9:1N:461:GLU:H	9:1N:461:GLU:CD	2.27	0.41
23:1O:270:ASN:HB2	45:UA:278:ALA:HB1	2.01	0.41
24:1P:140:LYS:HD2	24:1P:140:LYS:HA	1.87	0.41
24:1P:281:GLU:CA	24:1P:284:GLN:HG2	2.50	0.41
24:1P:283:LEU:HA	24:1P:286:ILE:HD12	2.01	0.41
24:1P:391:ARG:HA	24:1P:394:GLN:CG	2.51	0.41
10:1Q:21:PRO:HG2	10:1Q:36:ARG:CD	2.51	0.41
25:1R:160:ALA:HB2	25:1R:179:GLU:HB3	2.03	0.41
25:1R:462:LYS:HZ1	25:1R:465:GLU:HA	1.80	0.41
13:1U:101:HIS:CE1	13:1U:130:ILE:HD13	2.55	0.41
13:1U:326:ILE:HD11	13:1U:336:PHE:CD2	2.49	0.41
14:1V:5:SER:HA	13:2U:374:GLY:O	2.20	0.41
26:1W:174:GLN:H	26:1W:174:GLN:CD	2.28	0.41
26:1W:210:GLN:HA	26:1W:213:GLN:OE1	2.21	0.41
15:1X:18:ILE:HD11	46:MH:81:PHE:HE1	1.84	0.41
5:2E:25:ARG:HE	5:2E:171:VAL:HG22	1.86	0.41
5:2E:65:PHE:O	5:2E:68:HIS:HB3	2.20	0.41
5:2E:86:CYS:O	5:2E:89:ARG:HD2	2.21	0.41
5:2E:96:ARG:HE	5:2E:178:ASP:HA	1.85	0.41
31:2I:82:VAL:HG13	45:GE:299:ALA:HB2	2.02	0.41
21:2L:359:LYS:HA	34:6R:177:VAL:HB	2.03	0.41
21:2L:525:LEU:HD12	46:BN:320:ARG:H	1.85	0.41
21:2L:528:SER:HB3	21:2L:585:CYS:SG	2.60	0.41
9:2N:65:GLU:O	9:2N:202:ARG:NH1	2.53	0.41
24:2P:444:ASN:HB2	24:2P:448:LYS:HE2	2.03	0.41
24:2P:465:LYS:O	24:2P:468:LEU:HG	2.21	0.41
10:2Q:143:ALA:C	10:2Q:144:TYR:HD1	2.28	0.41
13:2U:155:PHE:CE2	13:2U:222:ILE:HG21	2.56	0.41
13:2U:165:VAL:HG11	13:2U:199:VAL:HB	2.03	0.41
13:2U:378:ILE:HG22	13:2U:411:LEU:HD13	2.02	0.41
14:2V:50:ASN:OD1	14:2V:51:LEU:N	2.51	0.41
14:2V:88:LYS:HG3	14:2V:89:ASN:CG	2.45	0.41
14:2V:211:GLY:O	14:2V:215:LYS:HG3	2.19	0.41
15:2X:14:ASP:N	15:2X:17:ASP:OD2	2.54	0.41
16:3B:208:ASN:O	16:3B:212:LEU:HD23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:3E:16:LEU:O	5:3E:19:ARG:HG2	2.21	0.41
23:3O:397:ARG:HG3	23:3O:398:ILE:HD12	2.03	0.41
10:3Q:135:ASN:C	10:3Q:137:SER:H	2.28	0.41
25:3R:236:MET:HE2	46:BN:92:PHE:CE1	2.56	0.41
12:3T:236:THR:O	12:3T:239:SER:OG	2.30	0.41
12:3T:281:THR:HB	12:3T:283:TYR:CE1	2.55	0.41
14:3V:208:LEU:O	14:3V:212:LEU:HD23	2.21	0.41
15:3X:49:ILE:HD11	45:MM:282:TYR:HB2	2.02	0.41
10:4Q:79:ILE:C	10:4Q:80:ILE:HD13	2.46	0.41
35:4S:64:LEU:HB3	35:4S:107:GLU:HG2	2.02	0.41
35:4S:118:PHE:CD1	35:4S:122:GLN:NE2	2.88	0.41
35:4S:144:ILE:HB	35:4S:145:PRO:HD3	2.03	0.41
36:5A:85:ARG:NH1	36:5A:86:VAL:H	2.18	0.41
36:5B:72:LYS:HD2	36:5B:73:SER:O	2.21	0.41
37:5F:9:TYR:CG	37:5F:10:PRO:HD3	2.56	0.41
34:5R:291:LYS:HA	34:5R:291:LYS:HE2	2.02	0.41
35:5S:63:ASN:OD1	35:5S:65:PHE:N	2.50	0.41
39:6F:126:LYS:O	39:6F:127:TRP:HD1	2.04	0.41
34:6R:542:TYR:HD2	34:6R:548:PHE:HD1	1.67	0.41
34:7R:259:ASN:HB3	34:7R:350:PHE:CZ	2.56	0.41
45:AC:371:VAL:HG12	45:AC:373:ARG:N	2.34	0.41
46:AD:21:TRP:CZ3	46:AD:61:PRO:HB3	2.55	0.41
46:AF:401:GLU:N	46:AF:401:GLU:OE1	2.54	0.41
46:AH:173:PRO:CD	46:AH:380:ARG:HH21	2.34	0.41
46:AJ:91:VAL:HG21	46:AJ:116:VAL:HB	2.03	0.41
45:AK:257:THR:C	45:AK:258:ASN:HD22	2.28	0.41
45:AM:68:LEU:HD11	45:AM:118:CYS:SG	2.61	0.41
45:BE:352:LYS:HD3	46:BH:178:THR:HG23	2.02	0.41
46:BF:58:ARG:NH2	46:CD:281:TYR:OH	2.54	0.41
45:BG:79:ARG:HE	45:BG:92:LEU:HD12	1.85	0.41
45:BG:272:TYR:HD2	45:BG:275:ILE:HD11	1.86	0.41
45:BG:298:PRO:HG3	45:BG:308:ARG:HH12	1.86	0.41
45:BI:179:THR:O	46:BJ:350:LYS:HD2	2.20	0.41
45:BM:387:VAL:HA	45:BM:390:ARG:HG2	2.02	0.41
46:BN:213:ARG:HE	46:BN:297:LYS:HE3	1.86	0.41
46:CB:221:THR:O	46:CB:225:LEU:HG	2.20	0.41
45:CC:254:GLU:OE1	45:CC:254:GLU:N	2.54	0.41
46:CD:190:HIS:CD2	46:CD:414:ASN:HD22	2.38	0.41
46:CD:379:LYS:HE3	46:CD:379:LYS:HA	2.02	0.41
46:CF:350:LYS:NZ	45:CG:181:VAL:HG12	2.36	0.41
45:CG:88:HIS:HE1	45:DG:284:GLU:OE1	2.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CH:105:HIS:CE1	46:CH:150:LEU:HD12	2.55	0.41
46:CH:414:ASN:C	46:CH:414:ASN:HD22	2.29	0.41
45:CI:148:GLY:O	45:CI:152:LEU:HD23	2.21	0.41
45:CK:384:ILE:O	45:CK:387:VAL:HG22	2.21	0.41
45:CM:205:ASP:OD1	45:CM:303:ALA:HA	2.21	0.41
45:DA:184:PRO:O	45:DA:188:ILE:HG12	2.21	0.41
45:DA:186:ASN:OD1	45:DA:187:SER:N	2.54	0.41
45:DE:256:GLN:O	46:DF:397:TRP:CE2	2.74	0.41
45:DE:324:VAL:O	45:DE:328:VAL:HG23	2.20	0.41
45:DG:235:ILE:O	45:DG:239:THR:HG22	2.20	0.41
46:DH:145:SER:O	46:DH:188:SER:OG	2.36	0.41
45:DI:133:GLN:HG2	45:DI:252:ILE:HB	2.03	0.41
46:DJ:396:HIS:HA	46:DJ:399:THR:OG1	2.21	0.41
45:DK:54:SER:HB3	45:DK:64:ARG:HH11	1.85	0.41
45:DK:141:VAL:HG12	45:DK:171:ILE:O	2.20	0.41
45:DK:372:MET:O	45:DK:373:ARG:HD3	2.21	0.41
46:DL:251:ARG:O	46:DL:255:VAL:HG22	2.20	0.41
46:DL:336:LYS:HD3	46:DL:336:LYS:O	2.21	0.41
46:EB:210:ILE:HD11	46:EB:299:MET:O	2.20	0.41
45:EC:206:ASN:HB3	45:EC:210:TYR:CZ	2.56	0.41
46:ED:31:ASP:OD2	46:ED:33:THR:OG1	2.36	0.41
45:EE:238:LEU:HD12	45:EE:238:LEU:HA	1.96	0.41
46:EF:403:MET:HE1	46:EF:408:PHE:HE1	1.86	0.41
45:EG:52:PHE:HZ	45:EG:239:THR:HG21	1.85	0.41
45:EG:255:PHE:HE1	45:EG:378:ILE:HD12	1.84	0.41
45:EI:21:TRP:CZ2	45:EI:65:ALA:HB2	2.56	0.41
46:EL:147:MET:O	46:EL:151:LEU:HD23	2.20	0.41
46:EL:391:ARG:HA	46:EL:391:ARG:HD2	1.81	0.41
46:EN:260:PHE:HB2	46:EN:263:LEU:HD13	2.01	0.41
45:FA:171:ILE:HG22	45:FA:204:LEU:HB2	2.03	0.41
46:FB:317:PHE:CD1	46:FB:365:VAL:HG22	2.56	0.41
46:FD:27:GLU:OE2	46:FD:241:ARG:NH1	2.30	0.41
45:FG:186:ASN:OD1	45:FG:187:SER:N	2.54	0.41
46:FJ:164:MET:HE2	46:FJ:164:MET:HB2	1.76	0.41
45:FM:320:ARG:NH2	45:FM:360:PRO:HA	2.36	0.41
45:GA:91:GLN:OE1	45:GA:125:LEU:HD11	2.21	0.41
45:GA:209:ILE:H	45:GA:209:ILE:HG13	1.72	0.41
45:GA:352:LYS:NZ	46:GD:177:ASP:O	2.32	0.41
46:GB:58:ARG:NH1	46:GB:60:VAL:HB	2.35	0.41
46:GD:86:ARG:HG2	46:GD:88:ASP:H	1.86	0.41
45:GE:137:VAL:HG13	45:GE:168:GLY:HA2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GF:290:THR:HA	46:GF:293:MET:CG	2.36	0.41
45:GG:118:CYS:O	45:GG:122:ILE:HG12	2.20	0.41
45:GG:326:LYS:HA	45:GG:326:LYS:HD3	1.79	0.41
46:GH:1:MET:CE	46:GH:2:ARG:H	2.34	0.41
45:GI:141:VAL:HG12	45:GI:171:ILE:O	2.20	0.41
45:HA:243:ARG:HD3	45:HA:243:ARG:H	1.86	0.41
45:HA:348:PRO:HD2	46:HD:388:MET:HE1	2.03	0.41
45:HC:358:GLN:OE1	45:HC:359:PRO:HD2	2.20	0.41
46:HD:409:THR:O	46:HD:412:GLU:HG3	2.20	0.41
46:HF:350:LYS:HB2	46:HF:350:LYS:HE2	1.93	0.41
45:HG:296:PHE:HE2	45:HG:335:ILE:HG21	1.84	0.41
45:HG:411:GLU:HG3	45:HG:411:GLU:O	2.20	0.41
45:HI:361:THR:OG1	45:HI:362:VAL:N	2.52	0.41
46:HJ:202:ILE:HD11	46:HJ:268:ILE:HD11	2.02	0.41
46:HJ:229:VAL:O	46:HJ:233:MET:HG3	2.20	0.41
46:HJ:398:TYR:O	46:HJ:403:MET:HB3	2.20	0.41
45:HM:408:TYR:CD2	45:HM:418:PHE:HZ	2.38	0.41
46:HN:8:GLN:OE1	46:HN:17:GLY:HA3	2.20	0.41
46:HN:184:ASN:OD1	46:HN:185:ALA:N	2.54	0.41
46:HN:325:GLU:HA	46:HN:328:GLU:HG2	2.02	0.41
46:IB:117:LEU:HD13	46:IB:121:ARG:HH22	1.85	0.41
45:IC:91:GLN:NE2	45:IC:125:LEU:HD21	2.35	0.41
45:IC:200:VAL:HG13	45:IC:268:MET:SD	2.60	0.41
45:IC:254:GLU:C	45:IC:255:PHE:HD2	2.28	0.41
45:IE:31:GLN:HB3	45:IE:32:PRO:HD2	2.02	0.41
46:IF:391:ARG:HA	46:IF:391:ARG:HD2	1.81	0.41
46:IH:3:GLU:O	46:IH:130:LEU:HD12	2.21	0.41
45:II:18:ASN:O	45:II:22:GLU:OE1	2.39	0.41
45:II:172:TYR:CD1	45:II:173:PRO:HD2	2.53	0.41
46:IJ:3:GLU:OE2	46:IJ:127:CYS:HB2	2.21	0.41
45:IK:207:GLU:HA	45:IK:210:TYR:HD2	1.85	0.41
45:IK:224:TYR:O	45:IK:228:ASN:ND2	2.54	0.41
46:IL:226:ASN:ND2	49:IL:501:GDP:HN1	2.18	0.41
46:JB:406:MET:O	46:JB:410:GLU:OE1	2.39	0.41
45:JC:215:ARG:HB2	45:JC:215:ARG:NH1	2.35	0.41
46:JD:213:ARG:NH2	46:JD:297:LYS:O	2.54	0.41
45:JE:32:PRO:HB3	45:JE:83:TYR:CD1	2.56	0.41
45:JK:384:ILE:O	45:JK:387:VAL:HG22	2.20	0.41
46:JL:141:GLY:HA3	49:JL:501:GDP:O3A	2.21	0.41
46:JL:173:PRO:HB3	46:JL:384:GLN:NE2	2.35	0.41
45:JM:22:GLU:OE2	45:JM:229:ARG:NH1	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JM:308:ARG:HE	45:JM:308:ARG:HB2	1.58	0.41
45:KC:223:THR:HG23	45:KC:225:THR:H	1.85	0.41
45:KG:167:LEU:CD2	45:KG:200:VAL:HB	2.50	0.41
45:KI:296:PHE:HE2	45:KI:335:ILE:HG21	1.86	0.41
45:KK:204:LEU:HD23	45:KK:204:LEU:HA	1.95	0.41
46:KL:285:THR:HG22	46:KL:288:GLU:HG2	2.03	0.41
45:KM:70:LEU:HB3	45:KM:97:GLU:O	2.21	0.41
45:KM:88:HIS:NE2	45:KM:90:GLU:HB2	2.35	0.41
45:LA:98:ASP:OD1	45:LA:99:ALA:N	2.53	0.41
45:LA:390:ARG:O	45:LA:394:LYS:HG2	2.21	0.41
45:LC:100:ALA:HB1	46:LD:252:LYS:HA	2.02	0.41
46:LD:42:LEU:HA	46:LD:45:GLU:HG3	2.02	0.41
46:LD:212:PHE:HE1	46:LD:220:PRO:HG2	1.85	0.41
45:LE:256:GLN:HB2	46:LH:397:TRP:CH2	2.55	0.41
45:LG:71:GLU:HA	45:LG:72:PRO:HD3	1.87	0.41
45:LG:296:PHE:CE1	45:LG:377:MET:HE2	2.56	0.41
45:LK:298:PRO:HG3	45:LK:308:ARG:HE	1.86	0.41
45:LM:121:ARG:NE	45:LM:121:ARG:HA	2.34	0.41
46:MB:395:LEU:HD23	46:MB:395:LEU:HA	1.88	0.41
45:ME:244:PHE:CZ	45:ME:358:GLN:HG2	2.55	0.41
45:ME:318:MET:HE3	45:ME:318:MET:HB2	1.92	0.41
45:MG:87:PHE:HB3	45:MG:92:LEU:HD11	2.03	0.41
46:MH:289:LEU:HD23	46:MH:289:LEU:HA	1.83	0.41
45:MM:102:ASN:HD22	45:MM:105:ARG:HG3	1.86	0.41
45:MM:426:ALA:O	45:MM:430:LYS:HG2	2.20	0.41
46:MN:310:TYR:CD1	46:MN:371:SER:HB3	2.55	0.41
45:NA:171:ILE:HD13	47:NA:501:GTP:HN22	1.85	0.41
45:NA:215:ARG:HH12	45:NA:300:ASN:ND2	2.16	0.41
45:NA:306:ASP:HB3	45:NA:309:HIS:ND1	2.35	0.41
45:NA:315:CYS:O	45:NA:351:PHE:HA	2.20	0.41
46:NB:68:LEU:HD23	46:NB:97:ALA:N	2.34	0.41
46:NB:245:GLN:HB3	46:NB:246:LEU:HD12	2.02	0.41
45:NC:211:ASP:O	45:NC:214:ARG:HG3	2.20	0.41
45:NC:229:ARG:NH1	45:NC:366:GLY:HA2	2.36	0.41
46:ND:168:SER:O	46:ND:201:VAL:HA	2.20	0.41
46:ND:318:ARG:HB3	46:ND:357:PRO:CA	2.49	0.41
45:NI:306:ASP:HB3	45:NI:309:HIS:ND1	2.35	0.41
46:NJ:222:TYR:O	46:NJ:226:ASN:ND2	2.54	0.41
45:NK:226:ASN:O	45:NK:230:LEU:HD23	2.20	0.41
46:NL:415:MET:HE3	46:NL:415:MET:HB3	1.96	0.41
45:NM:80:THR:O	45:NM:84:ARG:NH2	2.44	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OB:34:GLY:HA3	46:OB:58:ARG:HH11	1.85	0.41
46:OD:396:HIS:CD2	46:OD:397:TRP:CD1	3.09	0.41
46:OH:175:VAL:HG23	46:OH:175:VAL:O	2.21	0.41
46:OH:282:ARG:HH22	46:OH:289:LEU:HD12	1.86	0.41
46:OJ:362:LYS:HA	46:OJ:362:LYS:HD3	1.97	0.41
46:OJ:398:TYR:O	46:OJ:403:MET:HB2	2.19	0.41
46:OL:265:PHE:HE1	46:OL:418:LEU:HD21	1.86	0.41
46:ON:68:LEU:HB2	46:ON:96:GLY:HA2	2.01	0.41
46:ON:209:ASP:OD1	46:ON:213:ARG:NH2	2.41	0.41
46:ON:253:LEU:O	46:ON:257:LEU:HD13	2.21	0.41
46:ON:269:GLY:HA2	46:ON:300:MET:HG2	2.02	0.41
46:ON:328:GLU:OE1	46:ON:329:GLN:HG3	2.21	0.41
46:ON:378:PHE:HA	46:ON:381:VAL:HG22	2.03	0.41
45:PA:179:THR:HG23	46:PB:351:SER:HB2	2.02	0.41
46:PD:9:GLY:HA2	46:PD:66:MET:O	2.21	0.41
46:PD:204:ASN:OD1	46:PD:205:GLU:N	2.54	0.41
46:PD:251:ARG:O	46:PD:255:VAL:HG22	2.20	0.41
45:PE:215:ARG:HG3	45:PE:216:ASN:OD1	2.20	0.41
46:PH:6:HIS:O	46:PH:63:ALA:HA	2.20	0.41
46:PH:68:LEU:HD23	46:PH:143:THR:OG1	2.21	0.41
46:PH:156:ARG:NH1	46:PH:159:TYR:O	2.53	0.41
45:PI:111:GLY:O	45:PI:115:VAL:HG13	2.21	0.41
46:PJ:372:THR:HA	46:PJ:422:TYR:CE2	2.56	0.41
45:PK:88:HIS:HE1	45:PK:90:GLU:HG2	1.85	0.41
45:PM:23:LEU:HD22	45:PM:232:ALA:HB1	2.03	0.41
46:PN:86:ARG:HE	46:PN:87:PRO:CD	2.33	0.41
46:PN:133:PHE:CD1	46:PN:155:VAL:HG11	2.56	0.41
46:QB:322:SER:HB2	45:QC:222:PRO:O	2.20	0.41
46:QD:8:GLN:NE2	46:QD:14:ASN:HA	2.35	0.41
45:QE:75:ILE:O	45:QE:79:ARG:HG2	2.21	0.41
46:QF:252:LYS:HD2	45:QG:101:ASN:ND2	2.36	0.41
46:QF:370:ASN:OD1	46:QF:422:TYR:OH	2.37	0.41
45:QG:328:VAL:O	45:QG:332:ILE:HG23	2.20	0.41
46:QH:6:HIS:HD2	46:QH:8:GLN:HB2	1.80	0.41
45:QI:74:VAL:O	45:QI:77:GLU:HG3	2.20	0.41
46:RB:19:LYS:HE2	46:RB:227:HIS:HB2	2.01	0.41
45:RC:288:VAL:HA	45:RC:291:ILE:HG22	2.02	0.41
46:RD:73:MET:CE	46:RD:92:PHE:HB3	2.49	0.41
46:RF:106:TYR:CE2	46:RF:403:MET:HB3	2.56	0.41
45:RG:10:GLY:O	45:RG:14:ILE:HG12	2.19	0.41
46:RH:45:GLU:C	46:RH:46:ARG:HD2	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RI:36:MET:HG2	45:RI:61:HIS:HE1	1.85	0.41
45:RI:319:TYR:HB3	45:RI:323:VAL:HG21	2.02	0.41
46:RJ:210:ILE:O	46:RJ:214:THR:OG1	2.32	0.41
45:RK:261:PRO:HA	46:RL:394:PHE:HD1	1.86	0.41
46:RN:44:LEU:HD23	46:RN:44:LEU:HA	1.93	0.41
45:SA:68:LEU:HD21	45:SA:118:CYS:SG	2.60	0.41
45:SA:124:LYS:HE2	45:SA:124:LYS:HB2	1.88	0.41
46:SB:175:VAL:HG22	46:SB:205:GLU:HB2	2.01	0.41
45:SC:256:GLN:O	45:SC:256:GLN:HG3	2.21	0.41
46:SD:317:PHE:HE2	46:SD:326:VAL:HG13	1.86	0.41
45:SE:31:GLN:CG	45:SE:32:PRO:HD2	2.50	0.41
46:SF:287:PRO:HG3	46:SF:329:GLN:NE2	2.34	0.41
45:SG:21:TRP:CZ3	45:SG:63:PRO:HB3	2.56	0.41
46:SH:4:ILE:HG13	46:SH:132:GLY:O	2.20	0.41
45:SK:70:LEU:O	45:SK:72:PRO:HD3	2.20	0.41
46:SL:289:LEU:HD11	46:SL:363:MET:HB3	2.02	0.41
45:SM:56:THR:HA	45:TM:285:GLN:OE1	2.21	0.41
45:SM:269:LEU:HD23	45:SM:379:SER:O	2.20	0.41
45:TA:141:VAL:HG22	45:TA:187:SER:HA	2.02	0.41
45:TA:155:GLU:HG2	45:TA:197:HIS:CD2	2.55	0.41
46:TB:153:SER:O	46:TB:157:GLU:OE1	2.37	0.41
45:TC:191:THR:HA	45:TC:194:LEU:HG	2.03	0.41
46:TD:238:CYS:SG	46:TD:239:CYS:N	2.94	0.41
46:TH:326:VAL:O	46:TH:330:MET:HG2	2.20	0.41
45:TI:8:HIS:CD2	45:TI:138:PHE:HD2	2.38	0.41
45:TK:101:ASN:HA	45:TK:144:GLY:N	2.34	0.41
46:TL:213:ARG:HH21	46:TL:297:LYS:HD2	1.86	0.41
46:TN:65:LEU:HD22	46:TN:90:PHE:CE1	2.55	0.41
45:UA:210:TYR:CE1	45:UA:227:LEU:HD11	2.55	0.41
46:UD:188:SER:O	46:UD:192:LEU:HD23	2.20	0.41
46:UD:316:LEU:HB2	46:UD:366:THR:CG2	2.50	0.41
45:UE:19:ALA:HA	45:UE:22:GLU:OE1	2.20	0.41
45:UE:286:LEU:HD23	45:UE:286:LEU:O	2.20	0.41
46:UF:180:VAL:HG23	46:UF:183:TYR:CD2	2.56	0.41
46:UF:288:GLU:O	46:UF:291:GLN:HG3	2.20	0.41
45:UG:3:GLU:HG2	45:UG:64:ARG:CZ	2.51	0.41
46:UJ:55:THR:OG1	46:VJ:280:GLN:O	2.36	0.41
45:UK:248:LEU:HD21	46:UL:177:ASP:OD1	2.21	0.41
45:UK:401:LYS:HZ2	45:UK:401:LYS:HG2	1.77	0.41
46:UL:167:PHE:CD2	46:UL:200:MET:HG2	2.55	0.41
45:UM:31:GLN:HG2	45:UM:33:ASP:OD1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UM:53:PHE:O	45:UM:64:ARG:NH2	2.52	0.41
45:UM:140:SER:OG	47:UM:501:GTP:O2B	2.38	0.41
45:UM:336:LYS:HE3	45:UM:351:PHE:CZ	2.56	0.41
45:VC:3:GLU:N	45:VC:133:GLN:OE1	2.53	0.41
45:VE:104:ALA:HB2	45:VE:413:MET:HG2	2.01	0.41
45:VI:107:HIS:CD2	45:VI:151:SER:HB2	2.56	0.41
45:VI:222:PRO:HD2	46:VJ:324:LYS:CD	2.49	0.41
45:VI:250:VAL:HG21	45:VI:318:MET:HE1	2.03	0.41
45:VI:304:LYS:HA	45:VI:304:LYS:HD2	1.91	0.41
46:VJ:232:ALA:HB1	46:VJ:268:ILE:HD12	2.02	0.41
46:VJ:270:PHE:HD2	46:VJ:273:LEU:HD21	1.84	0.41
45:VK:219:ILE:HG22	45:VK:221:ARG:H	1.86	0.41
45:VK:254:GLU:C	45:VK:255:PHE:HD2	2.28	0.41
46:VN:286:VAL:HG13	46:VN:329:GLN:HE22	1.85	0.41
46:VN:357:PRO:HB2	46:VN:361:LEU:O	2.21	0.41
45:WA:210:TYR:HH	46:WB:323:THR:HG1	1.57	0.41
45:WA:224:TYR:HD1	45:WA:227:LEU:HD12	1.85	0.41
45:WC:110:ILE:O	45:WC:113:GLU:HG3	2.20	0.41
45:WE:279:GLU:OE2	45:WE:280:LYS:HG3	2.20	0.41
46:WF:238:CYS:SG	46:WF:239:CYS:N	2.94	0.41
46:WH:97:ALA:HA	46:WH:103:LYS:HD2	2.02	0.41
46:WJ:175:VAL:O	46:WJ:175:VAL:HG13	2.20	0.41
46:WJ:390:ARG:CZ	46:WJ:390:ARG:HA	2.51	0.41
45:WK:205:ASP:OD2	45:WK:304:LYS:HG2	2.20	0.41
46:WL:97:ALA:HB3	46:WL:143:THR:HG22	2.03	0.41
46:WL:318:ARG:HB3	46:WL:357:PRO:HA	2.03	0.41
46:WN:61:PRO:HD3	46:WN:84:LEU:HD12	2.02	0.41
45:CE:3:GLU:OE1	45:CE:64:ARG:NH1	2.54	0.41
4:0D:39:PRO:HD2	45:DC:79:ARG:HH22	1.85	0.41
4:0D:209:LYS:HA	4:0D:209:LYS:HD3	1.91	0.41
11:0S:84:SER:O	12:0T:35:LEU:HD23	2.21	0.41
11:0S:178:LEU:HD21	11:0S:193:THR:HG21	2.02	0.41
12:0T:256:ASN:HA	12:0T:259:ARG:NH1	2.36	0.41
13:0U:126:LYS:HG3	13:0U:128:MET:HE3	2.03	0.41
14:0V:4:GLU:OE2	13:3U:392:GLN:N	2.44	0.41
16:1B:65:LEU:O	16:1B:68:VAL:HG12	2.21	0.41
3:1C:55:LYS:HB2	3:1C:60:ILE:HD11	2.03	0.41
4:1D:93:GLN:HE22	45:EG:33:ASP:HB2	1.86	0.41
5:1E:29:ARG:HE	5:1E:150:PHE:C	2.27	0.41
7:1G:141:GLU:OE2	7:1G:142:LYS:HE2	2.21	0.41
8:1H:53:LEU:O	8:1H:56:GLU:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:1H:290:GLU:O	8:1H:294:ARG:HG2	2.20	0.41
8:1H:324:GLN:O	8:1H:327:ARG:HG2	2.21	0.41
19:1J:110:LYS:HG3	19:1J:110:LYS:O	2.21	0.41
19:1J:393:LYS:HB3	19:1J:393:LYS:HE3	1.81	0.41
20:1K:19:ILE:H	20:1K:19:ILE:HD12	1.86	0.41
21:1L:289:PHE:HE1	45:BG:221:ARG:NE	2.13	0.41
21:1L:394:LEU:HD12	21:1L:398:TYR:OH	2.20	0.41
9:1N:308:LEU:HD21	9:1N:367:VAL:HG22	2.03	0.41
9:1N:475:ASP:OD1	9:1N:476:LYS:N	2.54	0.41
24:1P:311:ILE:HB	24:1P:315:ARG:NH1	2.36	0.41
24:1P:362:LYS:HZ1	46:TB:357:PRO:HG2	1.86	0.41
10:1Q:46:VAL:HG21	10:1Q:129:TRP:HH2	1.85	0.41
11:1S:6:PRO:O	11:1S:8:GLN:N	2.54	0.41
11:1S:8:GLN:HG3	11:1S:187:PHE:HE1	1.85	0.41
11:1S:96:LEU:HD12	46:MF:410:GLU:HG3	2.01	0.41
11:1S:178:LEU:HD11	11:1S:193:THR:HG21	2.02	0.41
14:1V:51:LEU:HB3	45:LI:116:ASP:OD2	2.20	0.41
14:1V:181:MET:HG3	14:1V:182:ILE:N	2.35	0.41
1:2A:136:ASN:HA	1:2A:139:GLN:NE2	2.35	0.41
16:2B:5:ASN:C	16:2B:7:LEU:H	2.29	0.41
4:2D:181:ILE:HG13	4:2D:186:ILE:HD12	2.01	0.41
5:2E:117:ILE:HD12	5:2E:117:ILE:H	1.85	0.41
30:2H:205:GLN:HE21	45:AC:81:GLY:HA2	1.84	0.41
31:2I:94:PRO:O	46:GF:332:ASN:ND2	2.53	0.41
31:2I:134:LYS:HE2	46:GD:332:ASN:HD22	1.84	0.41
20:2K:398:GLU:HA	20:2K:401:LYS:NZ	2.35	0.41
21:2L:699:TYR:O	21:2L:703:ILE:HD12	2.21	0.41
21:2L:778:ILE:HG22	21:2L:785:LEU:HD11	2.02	0.41
21:2L:786:ASP:OD1	21:2L:787:GLU:N	2.54	0.41
22:2M:282:GLU:HA	22:2M:291:PHE:HZ	1.85	0.41
9:2N:13:ASN:O	9:2N:15:ARG:NH2	2.53	0.41
9:2N:47:LYS:O	9:2N:50:ARG:HD3	2.20	0.41
23:2O:185:ARG:NH2	46:VL:276:ARG:O	2.39	0.41
23:2O:427:LEU:HD23	23:2O:428:ARG:NH1	2.36	0.41
23:2O:443:ARG:O	23:2O:447:GLU:HG3	2.20	0.41
24:2P:408:GLN:O	24:2P:412:LYS:HG2	2.21	0.41
25:2R:248:GLN:O	25:2R:252:LEU:HD23	2.20	0.41
25:2R:409:LYS:HG2	25:2R:410:TRP:H	1.84	0.41
15:2X:49:ILE:HG12	45:MI:282:TYR:HD2	1.85	0.41
1:3A:98:THR:HG23	25:3R:7:LYS:HE3	2.02	0.41
16:3B:206:ARG:O	16:3B:210:LEU:HD23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:3D:106:GLN:HA	32:3D:106:GLN:OE1	2.21	0.41
23:3O:343:ALA:HB2	46:UJ:359:LYS:HZ2	1.84	0.41
23:3O:354:LYS:HA	23:3O:357:ARG:CD	2.51	0.41
23:3O:406:ARG:HA	23:3O:409:GLU:OE1	2.20	0.41
11:3S:174:PHE:CE1	11:3S:192:GLY:HA3	2.56	0.41
12:3T:29:ASN:HB3	12:3T:32:TYR:CD1	2.55	0.41
13:3U:7:ILE:HG23	13:3U:601:ILE:O	2.21	0.41
13:3U:332:TYR:HE2	13:3U:335:VAL:HG22	1.86	0.41
13:3U:419:ARG:NH2	13:3U:442:LYS:HG2	2.36	0.41
14:3V:21:ARG:HH11	14:3V:22:ARG:H	1.69	0.41
27:4C:33:ARG:HH21	27:4C:173:TYR:HA	1.85	0.41
10:4Q:102:ARG:HE	45:AI:430:LYS:CE	2.34	0.41
34:4R:30:GLN:HE22	34:4R:41:LYS:HB2	1.85	0.41
36:5B:27:LYS:CE	36:5B:30:LYS:HB2	2.47	0.41
36:5C:167:LYS:NZ	45:NK:279:GLU:HA	2.35	0.41
36:5D:19:ARG:HG2	36:5D:20:LEU:N	2.28	0.41
37:5F:67:ARG:HA	37:5F:68:PRO:HD3	1.86	0.41
37:5F:147:GLN:O	37:5F:148:GLN:C	2.60	0.41
37:5H:27:ARG:O	45:OK:219:ILE:HD12	2.20	0.41
37:5H:123:ARG:O	37:5H:123:ARG:NH1	2.53	0.41
10:5Q:2:PHE:HD1	10:5Q:11:LEU:HD11	1.85	0.41
34:5R:601:ASP:HB3	34:5R:604:SER:OG	2.20	0.41
35:5S:135:ILE:HD12	35:5S:135:ILE:H	1.86	0.41
40:6G:182:PRO:HG3	45:VE:293:ASN:CG	2.45	0.41
40:6G:305:THR:OG1	40:6G:306:GLU:N	2.54	0.41
40:6G:307:GLU:N	40:6G:307:GLU:OE1	2.54	0.41
34:6R:49:ASN:OD1	34:6R:50:ASP:N	2.53	0.41
34:6R:441:LYS:HA	34:6R:441:LYS:HD3	1.88	0.41
34:6R:537:LYS:HE3	34:6R:537:LYS:HB3	1.95	0.41
34:7R:248:TYR:CD2	34:7R:281:ALA:HB1	2.55	0.41
34:7R:364:MET:SD	34:7R:364:MET:N	2.91	0.41
34:7R:478:ASN:HD21	34:7R:480:ILE:HB	1.86	0.41
34:7R:511:TYR:HB2	45:EA:39:ASP:HB3	2.02	0.41
45:AA:89:PRO:HD2	45:BA:280:LYS:NZ	2.34	0.41
45:AA:216:ASN:HB3	45:AA:275:ILE:O	2.20	0.41
46:AB:19:LYS:HA	46:AB:22:GLU:HG3	2.02	0.41
46:AB:118:ASP:C	46:AB:122:LYS:HZ2	2.29	0.41
45:AC:152:LEU:HD12	45:AC:152:LEU:HA	1.87	0.41
45:AE:399:TYR:OH	45:AE:402:ARG:NH2	2.54	0.41
45:AG:241:SER:OG	45:AG:250:VAL:O	2.38	0.41
46:AH:391:ARG:HD2	46:AH:391:ARG:HA	1.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AJ:405:GLU:H	46:AJ:405:GLU:CD	2.28	0.41
45:AK:187:SER:O	45:AK:191:THR:HG23	2.21	0.41
46:AL:306:ARG:HB2	46:AL:340:TYR:CZ	2.55	0.41
46:AN:11:GLN:O	46:AN:15:GLN:HG2	2.21	0.41
45:BA:434:GLU:O	45:BA:437:ILE:HG12	2.21	0.41
46:BB:16:ILE:HD12	46:BB:229:VAL:HG11	2.02	0.41
46:BD:113:ILE:HA	46:BD:116:VAL:HG12	2.03	0.41
45:BG:3:GLU:OE2	45:BG:130:THR:N	2.50	0.41
46:BH:210:ILE:O	46:BH:214:THR:HG22	2.21	0.41
46:BH:248:SER:HA	46:BH:252:LYS:CE	2.42	0.41
46:BH:293:MET:HE2	46:BH:365:VAL:HG11	2.01	0.41
45:BI:32:PRO:HB3	45:BI:83:TYR:HE1	1.86	0.41
45:BK:251:ASP:OD1	45:BK:254:GLU:HG3	2.21	0.41
45:BK:258:ASN:ND2	45:BK:352:LYS:HD2	2.35	0.41
45:BK:434:GLU:O	45:BK:437:ILE:HG12	2.20	0.41
46:BL:54:ALA:HB3	46:BL:58:ARG:HG2	2.03	0.41
46:BL:186:THR:HA	46:BL:189:VAL:HG12	2.02	0.41
45:BM:90:GLU:HG2	45:CM:280:LYS:HZ1	1.86	0.41
45:BM:176:GLN:NE2	45:BM:177:VAL:HG23	2.36	0.41
45:BM:315:CYS:O	45:BM:351:PHE:HA	2.21	0.41
46:BN:58:ARG:NE	46:CL:281:TYR:HE2	2.18	0.41
45:CC:107:HIS:CD2	45:CC:152:LEU:HG	2.56	0.41
46:CD:130:LEU:HB3	46:CD:162:ARG:NH2	2.35	0.41
46:CH:91:VAL:HG21	46:CH:116:VAL:HB	2.02	0.41
45:CI:115:VAL:O	45:CI:119:LEU:HD23	2.21	0.41
45:CI:330:ALA:O	45:CI:334:THR:HG23	2.20	0.41
45:CI:387:VAL:HG23	45:CI:388:PHE:HD1	1.85	0.41
45:CK:35:GLN:NE2	45:CK:60:LYS:HB3	2.35	0.41
45:CK:171:ILE:O	45:CK:171:ILE:HG13	2.19	0.41
45:CK:255:PHE:O	45:CK:259:LEU:HB2	2.21	0.41
45:DA:174:SER:HB2	45:DA:177:VAL:O	2.20	0.41
46:DB:213:ARG:NH2	46:DB:297:LYS:HB3	2.35	0.41
46:DB:251:ARG:HD3	45:DC:105:ARG:NH1	2.35	0.41
45:DE:119:LEU:O	45:DE:123:ARG:HG2	2.20	0.41
46:DH:102:ALA:HB1	46:DH:401:GLU:HB2	2.03	0.41
45:DI:107:HIS:ND1	45:DI:107:HIS:O	2.53	0.41
45:DI:259:LEU:HD21	45:DI:316:SER:HB2	2.03	0.41
45:DI:331:SER:O	45:DI:335:ILE:HG12	2.20	0.41
45:DK:116:ASP:O	45:DK:119:LEU:HG	2.21	0.41
45:DM:76:ASP:HA	45:DM:79:ARG:HG2	2.01	0.41
46:DN:69:GLU:HA	46:DN:70:PRO:HD3	1.87	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EC:11:GLN:HE21	47:EC:501:GTP:PB	2.43	0.41
45:EC:75:ILE:O	45:EC:79:ARG:HG2	2.20	0.41
45:EC:191:THR:HA	45:EC:194:LEU:HG	2.03	0.41
46:EF:21:TRP:CZ3	46:EF:61:PRO:HB3	2.55	0.41
46:EF:319:GLY:HA3	46:EF:362:LYS:O	2.21	0.41
46:EH:11:GLN:HB3	46:EH:72:THR:HG21	2.02	0.41
46:EH:139:LEU:HD13	46:EH:168:SER:HB3	2.01	0.41
45:EK:102:ASN:ND2	45:EK:105:ARG:HG3	2.35	0.41
45:EM:194:LEU:O	45:EM:198:THR:HG22	2.21	0.41
46:FB:66:MET:SD	46:FB:147:MET:HE3	2.60	0.41
46:FB:391:ARG:HA	46:FB:391:ARG:HD2	1.78	0.41
45:FC:8:HIS:ND1	45:FC:17:GLY:HA3	2.36	0.41
45:FC:81:GLY:O	45:FC:84:ARG:NH1	2.50	0.41
45:FE:88:HIS:HE1	45:FE:90:GLU:OE2	2.03	0.41
46:FF:287:PRO:O	46:FF:290:THR:HG22	2.21	0.41
46:FF:317:PHE:CD1	46:FF:365:VAL:HG22	2.55	0.41
45:FG:384:ILE:O	45:FG:387:VAL:HG12	2.21	0.41
45:FK:267:PHE:CD2	45:FK:388:PHE:HZ	2.39	0.41
45:FM:68:LEU:HD21	45:FM:118:CYS:SG	2.60	0.41
45:FM:247:ALA:C	45:FM:248:LEU:HD12	2.46	0.41
45:GA:3:GLU:HG2	45:GA:64:ARG:CZ	2.50	0.41
45:GA:306:ASP:HB3	45:GA:309:HIS:ND1	2.35	0.41
46:GB:6:HIS:O	46:GB:63:ALA:HA	2.21	0.41
46:GB:73:MET:HE2	46:GB:92:PHE:HB3	2.01	0.41
46:GB:214:THR:O	46:GB:216:LYS:NZ	2.53	0.41
45:GC:21:TRP:HZ2	45:GC:65:ALA:HB2	1.83	0.41
46:GD:398:TYR:O	46:GD:403:MET:HB3	2.21	0.41
45:GE:245:ASP:OD1	45:GE:246:GLY:N	2.54	0.41
45:GG:222:PRO:HD2	46:GH:324:LYS:HG2	2.02	0.41
45:GI:244:PHE:CE1	45:GI:358:GLN:HG2	2.56	0.41
46:GJ:4:ILE:HG13	46:GJ:132:GLY:O	2.20	0.41
45:GK:408:TYR:HB3	45:GK:413:MET:CE	2.51	0.41
46:GL:111:GLU:N	46:GL:111:GLU:OE2	2.54	0.41
46:GN:32:PRO:HG3	46:GN:81:PHE:CZ	2.56	0.41
46:GN:105:HIS:CE1	46:GN:150:LEU:HD12	2.56	0.41
46:GN:299:MET:N	46:GN:299:MET:HE2	2.36	0.41
45:HA:18:ASN:O	45:HA:22:GLU:OE1	2.37	0.41
45:HA:171:ILE:O	45:HA:171:ILE:HG13	2.21	0.41
46:HB:313:ALA:HB1	46:HB:367:PHE:HE1	1.85	0.41
45:HC:122:ILE:HD13	45:HC:157:LEU:HD21	2.03	0.41
45:HC:398:MET:SD	46:HD:345:ILE:HD12	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HE:100:ALA:O	46:HF:255:VAL:HG11	2.21	0.41
45:HG:420:GLU:HA	45:HG:423:GLU:CD	2.44	0.41
45:HG:434:GLU:O	45:HG:437:ILE:HG12	2.21	0.41
46:HH:40:SER:H	46:HH:43:GLN:NE2	2.19	0.41
46:HH:226:ASN:ND2	49:HH:501:GDP:HN1	2.07	0.41
45:HK:3:GLU:HG3	45:HK:129:CYS:HB3	2.03	0.41
45:HK:71:GLU:HA	45:HK:72:PRO:HD3	1.88	0.41
46:HN:9:GLY:HA2	46:HN:66:MET:O	2.21	0.41
46:ID:165:GLU:HG2	46:ID:167:PHE:CE2	2.56	0.41
45:IE:21:TRP:CZ2	45:IE:65:ALA:HB2	2.55	0.41
45:IE:156:ARG:HA	45:IE:156:ARG:HD2	1.80	0.41
45:IE:387:VAL:O	45:IE:391:LEU:HD23	2.20	0.41
45:IG:172:TYR:CE2	45:IG:203:MET:HE1	2.56	0.41
45:IG:239:THR:HG23	45:IG:243:ARG:HH21	1.85	0.41
45:IG:256:GLN:HB2	46:IJ:397:TRP:CH2	2.39	0.41
45:IG:329:ASN:HB3	46:IJ:175:VAL:HG12	2.03	0.41
45:II:1:MET:HE2	46:IL:94:GLN:HE22	1.85	0.41
46:IJ:67:ASP:CG	46:IJ:73:MET:HE3	2.46	0.41
45:IK:297:GLU:HB3	45:IK:300:ASN:ND2	2.36	0.41
45:IK:352:LYS:HE2	46:IN:178:THR:HA	2.03	0.41
46:IL:310:TYR:O	46:IL:342:VAL:HG12	2.20	0.41
45:IM:27:GLU:CD	45:IM:243:ARG:HH21	2.29	0.41
45:IM:175:PRO:HG3	45:IM:390:ARG:NH1	2.36	0.41
46:IN:19:LYS:HE2	46:IN:223:GLY:O	2.20	0.41
46:IN:152:ILE:HD13	46:IN:164:MET:HE2	2.03	0.41
45:JA:332:ILE:HD11	45:JA:351:PHE:CZ	2.55	0.41
46:JB:250:LEU:H	46:JB:250:LEU:HD12	1.86	0.41
45:JC:66:VAL:HG11	45:JC:122:ILE:HD11	2.02	0.41
45:JC:96:LYS:NZ	46:JD:1:MET:SD	2.76	0.41
45:JC:118:CYS:SG	45:JC:153:LEU:HD11	2.61	0.41
46:JD:115:SER:O	46:JD:119:VAL:HG23	2.21	0.41
45:JE:133:GLN:HB3	45:JE:252:ILE:HD11	2.01	0.41
45:JG:207:GLU:OE2	45:JG:304:LYS:HD3	2.21	0.41
46:JH:146:GLY:O	46:JH:149:THR:HG22	2.21	0.41
45:JI:421:ALA:O	45:JI:425:LEU:HD23	2.20	0.41
46:JJ:21:TRP:CZ3	46:JJ:61:PRO:HB3	2.56	0.41
46:JL:69:GLU:HA	46:JL:70:PRO:HD3	1.93	0.41
46:JL:109:GLY:HA2	46:JL:147:MET:HE2	2.02	0.41
46:JN:391:ARG:HA	46:JN:391:ARG:HD2	1.85	0.41
45:KA:220:GLU:H	45:KA:220:GLU:CD	2.29	0.41
45:KA:287:SER:O	45:KA:291:ILE:HG23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KA:318:MET:HB2	45:KA:376:CYS:HB3	2.03	0.41
46:KB:87:PRO:HA	46:KB:90:PHE:CD2	2.56	0.41
45:KE:245:ASP:N	45:KE:245:ASP:OD1	2.54	0.41
45:KE:384:ILE:O	45:KE:387:VAL:HG22	2.20	0.41
46:KH:3:GLU:HA	46:KH:49:VAL:HG23	2.02	0.41
46:KH:238:CYS:SG	46:KH:318:ARG:HD3	2.60	0.41
46:KH:407:GLU:OE1	46:KH:407:GLU:N	2.44	0.41
46:KJ:203:ASP:OD1	46:KJ:204:ASN:N	2.54	0.41
46:KJ:207:LEU:HD13	46:KJ:225:LEU:HB3	2.02	0.41
45:KK:102:ASN:ND2	45:KK:105:ARG:HG3	2.35	0.41
45:KK:149:LEU:O	45:KK:153:LEU:HD23	2.19	0.41
45:KK:420:GLU:O	45:KK:423:GLU:HG3	2.21	0.41
46:KL:68:LEU:HD13	46:KL:112:LEU:HD13	2.02	0.41
46:KL:221:THR:OG1	46:KL:222:TYR:N	2.53	0.41
45:KM:175:PRO:HD2	45:KM:207:GLU:OE2	2.20	0.41
45:KM:324:VAL:O	45:KM:328:VAL:HG23	2.21	0.41
46:LB:310:TYR:HD2	46:LB:371:SER:HB2	1.86	0.41
46:LD:396:HIS:HA	46:LD:399:THR:OG1	2.21	0.41
45:LE:320:ARG:HD3	45:LE:360:PRO:HG3	2.01	0.41
46:LF:73:MET:SD	46:LF:90:PHE:HD1	2.43	0.41
45:LG:395:PHE:CD2	45:LG:422:ARG:HD3	2.56	0.41
45:LI:224:TYR:HD1	45:LI:227:LEU:HD12	1.85	0.41
46:LJ:156:ARG:HD2	46:LJ:156:ARG:HA	1.87	0.41
45:LK:317:MET:HE2	45:LK:317:MET:HB3	1.81	0.41
45:LM:41:THR:HG21	45:LM:45:GLY:O	2.21	0.41
46:MB:226:ASN:HA	46:MB:229:VAL:HG12	2.03	0.41
46:MF:31:ASP:OD2	46:MF:33:THR:OG1	2.35	0.41
45:MG:11:GLN:HG3	45:MG:74:VAL:HG11	2.02	0.41
46:MH:68:LEU:HD23	46:MH:112:LEU:HD13	2.03	0.41
46:MH:200:MET:CE	46:MH:268:ILE:HD13	2.50	0.41
46:MH:311:LEU:HD12	46:MH:311:LEU:HA	1.86	0.41
45:MK:21:TRP:CH2	45:MK:63:PRO:HB3	2.55	0.41
46:ML:178:THR:HG22	46:ML:180:VAL:H	1.85	0.41
45:NA:77:GLU:OE2	46:NB:243:PRO:HB3	2.21	0.41
45:NA:141:VAL:HG12	45:NA:171:ILE:O	2.20	0.41
46:NB:162:ARG:HG3	46:NB:163:ILE:H	1.84	0.41
46:NB:252:LYS:O	46:NB:256:ASN:ND2	2.53	0.41
45:NC:346:TRP:CD1	46:NF:391:ARG:HG3	2.56	0.41
46:ND:294:PHE:CD2	46:ND:333:VAL:HG11	2.56	0.41
46:ND:306:ARG:HG2	46:ND:340:TYR:CE2	2.56	0.41
46:NF:286:VAL:HG21	46:NF:325:GLU:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NG:222:PRO:HG2	46:NH:324:LYS:HD3	2.01	0.41
46:NH:58:ARG:NH2	46:OH:281:TYR:HD1	2.18	0.41
45:NI:108:TYR:HA	45:NI:112:LYS:NZ	2.35	0.41
45:NI:209:ILE:CD1	45:NI:227:LEU:HD22	2.50	0.41
46:NJ:68:LEU:HD12	46:NJ:93:GLY:HA3	2.02	0.41
46:NL:178:THR:HB	46:NL:181:GLU:CG	2.51	0.41
45:NM:175:PRO:HA	45:NM:390:ARG:CZ	2.51	0.41
45:NM:224:TYR:O	45:NM:227:LEU:HG	2.20	0.41
45:OA:88:HIS:CG	45:PA:280:LYS:HE2	2.55	0.41
45:OA:196:GLU:N	45:OA:196:GLU:OE1	2.50	0.41
45:OC:183:GLU:N	45:OC:184:PRO:HD2	2.35	0.41
46:OF:113:ILE:O	46:OF:117:LEU:HD23	2.20	0.41
46:OF:325:GLU:OE2	46:OF:326:VAL:HG23	2.20	0.41
46:OH:113:ILE:HB	46:OH:117:LEU:HD23	2.02	0.41
46:OH:165:GLU:HA	46:OH:198:GLU:O	2.21	0.41
45:OM:231:ILE:O	45:OM:235:ILE:HG12	2.20	0.41
45:PA:346:TRP:CD1	46:PD:391:ARG:HG3	2.55	0.41
46:PB:101:TRP:HB3	46:PB:398:TYR:HE1	1.86	0.41
45:PC:143:GLY:HA3	47:PD:501:GTP:O2B	2.20	0.41
46:PD:19:LYS:HE2	46:PD:227:HIS:CG	2.56	0.41
45:PE:103:PHE:N	45:PE:408:TYR:HE1	2.17	0.41
45:PE:171:ILE:HG22	45:PE:204:LEU:HB2	2.02	0.41
45:PE:174:SER:HB3	45:PE:207:GLU:HB2	2.02	0.41
45:PG:164:LYS:HD3	45:PG:164:LYS:HA	1.81	0.41
45:PK:217:LEU:HD13	45:PK:277:SER:HB3	2.02	0.41
46:PL:45:GLU:OE2	46:PL:45:GLU:N	2.37	0.41
46:PL:186:THR:HA	46:PL:189:VAL:HG12	2.02	0.41
45:QA:351:PHE:C	45:QA:352:LYS:HD3	2.46	0.41
45:QC:317:MET:O	45:QC:318:MET:HE2	2.19	0.41
46:QH:55:THR:HG23	46:RH:283:ALA:HA	2.03	0.41
46:QH:134:GLN:O	46:QH:135:ILE:HD13	2.20	0.41
45:QI:8:HIS:HB2	45:QI:67:PHE:HD1	1.84	0.41
46:QL:324:LYS:O	46:QL:327:ASP:OD1	2.39	0.41
45:QM:216:ASN:HB3	45:QM:275:ILE:O	2.20	0.41
46:RB:207:LEU:HB3	46:RB:225:LEU:HD22	2.01	0.41
46:RB:293:MET:HE2	46:RB:367:PHE:CB	2.50	0.41
45:RC:136:LEU:HD11	45:RC:138:PHE:HE2	1.85	0.41
45:RC:258:ASN:O	46:RD:179:VAL:HG21	2.21	0.41
46:RD:391:ARG:HA	46:RD:391:ARG:HD2	1.90	0.41
45:RE:284:GLU:OE1	45:RE:284:GLU:N	2.53	0.41
45:RG:171:ILE:HD12	47:RG:501:GTP:H1'	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RG:271:SER:OG	45:RG:301:MET:HE3	2.20	0.41
45:RG:319:TYR:CE1	45:RG:328:VAL:HG22	2.55	0.41
46:RH:100:ASN:HB3	46:RH:103:LYS:HB3	2.01	0.41
45:RI:289:ALA:O	45:RI:292:THR:HG22	2.21	0.41
45:RK:258:ASN:HD21	46:RL:178:THR:HG23	1.85	0.41
45:RK:424:ASP:O	45:RK:428:LEU:HD23	2.21	0.41
46:RL:24:ILE:HD13	46:RL:27:GLU:OE2	2.20	0.41
45:RM:377:MET:SD	45:RM:379:SER:HB3	2.60	0.41
46:SB:268:ILE:HG22	46:SB:368:VAL:HA	2.03	0.41
46:SD:6:HIS:CE1	46:SD:8:GLN:HE21	2.38	0.41
46:SD:24:ILE:HG13	46:SD:28:HIS:HD2	1.86	0.41
46:SD:204:ASN:N	46:SD:204:ASN:ND2	2.68	0.41
46:SD:327:ASP:O	46:SD:330:MET:HG3	2.20	0.41
46:SF:167:PHE:CE2	46:SF:200:MET:HE3	2.55	0.41
46:SF:414:ASN:O	46:SF:418:LEU:HD23	2.20	0.41
46:SH:152:ILE:HA	46:SH:155:VAL:HG22	2.02	0.41
45:SI:229:ARG:NH1	45:SI:366:GLY:HA2	2.34	0.41
46:SJ:215:LEU:CD2	46:SJ:217:LEU:HB2	2.50	0.41
46:SL:414:ASN:O	46:SL:418:LEU:HD23	2.20	0.41
45:SM:205:ASP:CG	45:SM:304:LYS:H	2.27	0.41
46:TB:45:GLU:CD	46:TB:46:ARG:HG3	2.46	0.41
46:TB:406:MET:O	46:TB:410:GLU:HG3	2.20	0.41
45:TC:67:PHE:HB2	45:TC:92:LEU:HD23	2.01	0.41
45:TC:205:ASP:OD2	45:TC:304:LYS:N	2.38	0.41
46:TD:143:THR:HG23	46:TD:144:GLY:H	1.85	0.41
46:TF:324:LYS:HB3	45:TG:210:TYR:CE2	2.55	0.41
45:TG:326:LYS:NZ	46:TH:219:THR:HA	2.32	0.41
45:TI:116:ASP:O	45:TI:119:LEU:HG	2.20	0.41
45:TI:174:SER:OG	45:TI:207:GLU:HB2	2.20	0.41
45:TI:245:ASP:OD1	45:TI:245:ASP:N	2.53	0.41
46:TJ:380:ARG:HA	46:TJ:383:GLU:OE1	2.21	0.41
45:TK:215:ARG:HD2	45:TK:215:ARG:HA	1.87	0.41
45:TK:326:LYS:HD2	46:TL:220:PRO:HB2	2.02	0.41
45:TM:221:ARG:HA	45:TM:221:ARG:CZ	2.50	0.41
45:TM:229:ARG:HH12	45:TM:363:VAL:CG1	2.34	0.41
45:UA:141:VAL:HG22	45:UA:187:SER:HA	2.03	0.41
45:UA:141:VAL:HG11	45:UA:172:TYR:HD1	1.86	0.41
45:UA:205:ASP:CG	45:UA:304:LYS:H	2.29	0.41
46:UB:361:LEU:HD23	46:UB:361:LEU:HA	1.90	0.41
45:UC:68:LEU:HD13	45:UC:93:ILE:HB	2.03	0.41
45:UC:80:THR:HA	45:UC:84:ARG:NH2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UC:425:LEU:HA	45:UC:425:LEU:HD23	1.81	0.41
46:UD:20:PHE:O	46:UD:24:ILE:HG12	2.21	0.41
46:UD:204:ASN:ND2	49:UD:501:GDP:O2'	2.52	0.41
45:UE:9:VAL:HG13	45:UE:139:ASN:HB3	2.02	0.41
45:UE:98:ASP:OD1	45:UE:99:ALA:N	2.54	0.41
45:UE:206:ASN:O	45:UE:209:ILE:HG22	2.21	0.41
46:UF:22:GLU:CD	46:UF:80:PRO:HB2	2.46	0.41
46:UF:246:LEU:HD22	45:UG:179:THR:HG21	2.03	0.41
45:UM:88:HIS:ND1	45:UM:90:GLU:HG3	2.35	0.41
45:VA:319:TYR:CB	45:VA:323:VAL:HG11	2.51	0.41
46:VB:83:GLN:NE2	46:VB:84:LEU:HD22	2.35	0.41
46:VB:377:MET:SD	46:VB:377:MET:N	2.92	0.41
46:VD:121:ARG:O	46:VD:125:GLU:OE1	2.39	0.41
45:VE:398:MET:HE1	46:VF:346:PRO:HD2	2.02	0.41
46:VF:267:MET:CE	46:VF:301:CYS:HB2	2.49	0.41
45:VM:115:VAL:HG22	45:VM:119:LEU:HD23	2.03	0.41
46:VN:406:MET:O	46:VN:410:GLU:HG2	2.21	0.41
45:WC:73:THR:HG22	46:WD:46:ARG:HH12	1.85	0.41
45:WC:251:ASP:CG	45:WC:253:THR:HG22	2.46	0.41
46:WD:294:PHE:HE1	46:WD:367:PHE:CE1	2.38	0.41
45:WE:311:LYS:NZ	45:WE:343:PHE:O	2.54	0.41
46:WF:261:PRO:O	46:WF:264:HIS:HD2	2.04	0.41
45:WG:21:TRP:CZ2	45:WG:65:ALA:HB2	2.56	0.41
45:WG:221:ARG:HH12	46:WH:325:GLU:CD	2.28	0.41
46:WH:73:MET:O	46:WH:77:ARG:HG3	2.21	0.41
45:WI:221:ARG:CA	46:WJ:324:LYS:HZ1	2.23	0.41
45:WK:88:HIS:ND1	45:WK:90:GLU:HG3	2.35	0.41
45:WK:311:LYS:N	45:WK:382:THR:OG1	2.54	0.41
45:WM:8:HIS:HB2	45:WM:67:PHE:HD2	1.83	0.41
45:DC:3:GLU:N	45:DC:133:GLN:OE1	2.52	0.41
45:DC:182:VAL:HG22	45:DC:185:TYR:HB2	2.02	0.41
45:DC:196:GLU:HG2	45:DC:197:HIS:CD2	2.55	0.41
4:0D:116:LEU:HD23	4:0D:121:LYS:HD3	2.02	0.41
5:0E:186:LYS:HA	5:0E:191:VAL:HG22	2.03	0.41
6:0F:70:VAL:CG2	46:ED:362:LYS:HZ2	2.17	0.41
7:0G:146:LYS:HG3	7:0G:147:HIS:CE1	2.55	0.41
8:0H:383:LYS:HA	8:0H:386:GLU:OE1	2.20	0.41
11:0S:97:ARG:HH21	46:MB:262:ARG:NH1	2.18	0.41
12:0T:256:ASN:OD1	12:0T:257:GLN:N	2.53	0.41
13:0U:590:VAL:O	13:0U:602:TRP:N	2.39	0.41
14:0V:69:SER:O	46:LN:121:ARG:HD3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:0V:124:LEU:O	14:0V:126:ASN:N	2.54	0.41
1:1A:35:TYR:OH	1:1A:41:THR:N	2.48	0.41
1:1A:80:LYS:HD2	34:4R:73:PRO:O	2.20	0.41
16:1B:436:ALA:O	16:1B:439:ILE:HG12	2.21	0.41
5:1E:107:PHE:CE1	5:1E:120:LEU:HD23	2.56	0.41
7:1G:97:ASN:O	46:JB:359:LYS:NZ	2.52	0.41
7:1G:145:GLN:O	7:1G:148:ILE:HG12	2.21	0.41
19:1J:183:GLN:OE1	19:1J:184:LYS:N	2.51	0.41
21:1L:62:THR:HG22	21:1L:63:GLU:H	1.86	0.41
21:1L:221:MET:HE3	46:CH:280:GLN:HB2	2.02	0.41
21:1L:332:ASP:OD1	21:1L:332:ASP:N	2.54	0.41
21:1L:479:VAL:HG12	46:CF:279:GLN:HB3	2.03	0.41
21:1L:783:ILE:O	21:1L:783:ILE:HG13	2.20	0.41
21:1L:876:HIS:HB3	21:1L:896:ILE:HD13	2.03	0.41
22:1M:40:LYS:NZ	45:JC:279:GLU:OE2	2.53	0.41
23:1O:201:GLU:HA	23:1O:204:LYS:NZ	2.36	0.41
24:1P:362:LYS:NZ	46:TB:357:PRO:O	2.53	0.41
25:1R:412:ASP:OD1	25:1R:413:ASN:N	2.53	0.41
11:1S:135:ARG:HA	11:1S:185:TYR:CE1	2.56	0.41
13:1U:83:ASP:OD1	13:1U:83:ASP:N	2.50	0.41
13:1U:174:THR:HB	13:1U:183:LYS:CG	2.51	0.41
13:1U:207:TYR:CE2	13:1U:221:ASN:HB3	2.55	0.41
13:1U:216:ASP:HB2	13:1U:231:GLY:HA3	2.03	0.41
13:1U:478:LEU:HD23	13:1U:478:LEU:O	2.20	0.41
14:1V:66:ASP:HB3	14:1V:69:SER:HB3	2.02	0.41
14:1V:231:LYS:HE2	14:1V:231:LYS:HA	2.02	0.41
26:1W:59:SER:HB2	26:1W:61:LYS:HG3	2.02	0.41
26:1W:67:ASP:OD2	26:1W:70:GLN:NE2	2.49	0.41
5:2E:105:GLN:NE2	5:2E:105:GLN:HA	2.36	0.41
29:2G:47:LYS:O	29:2G:47:LYS:HD3	2.21	0.41
20:2K:433:LEU:HA	20:2K:436:GLN:HB2	2.02	0.41
22:2M:315:LYS:HE2	22:2M:315:LYS:HA	2.02	0.41
25:2R:36:TYR:O	25:2R:40:ASN:ND2	2.48	0.41
25:2R:409:LYS:HG2	25:2R:410:TRP:N	2.35	0.41
14:2V:113:ARG:HE	45:LE:263:PRO:HB2	1.86	0.41
14:2V:122:LYS:HE2	46:LH:390:ARG:NH2	2.36	0.41
26:2W:215:HIS:HA	26:2W:218:GLU:OE2	2.21	0.41
26:2W:233:ASN:HD22	26:2W:233:ASN:C	2.25	0.41
1:3A:23:HIS:HD2	1:3A:25:LYS:HD3	1.85	0.41
16:3B:29:LEU:HD21	16:3B:86:VAL:HG11	2.02	0.41
27:3C:67:LYS:HA	27:3C:67:LYS:HE3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:3C:254:MET:HA	27:3C:257:MET:HB2	2.02	0.41
32:3D:105:LEU:HD13	32:3D:139:PHE:CE1	2.55	0.41
32:3D:109:ILE:HA	32:3D:114:CYS:SG	2.61	0.41
5:3E:131:LYS:HZ2	5:3E:137:MET:C	2.28	0.41
31:3I:287:ARG:HA	31:3I:287:ARG:HE	1.82	0.41
23:3O:334:GLU:HA	23:3O:337:PHE:CD2	2.56	0.41
25:3R:46:TYR:H	25:3R:95:MET:HE3	1.86	0.41
25:3R:68:MET:HE3	25:3R:72:HIS:HB3	2.02	0.41
12:3T:108:PRO:HB2	12:3T:205:TYR:CE2	2.56	0.41
13:3U:64:SER:HB3	13:3U:110:PHE:CD2	2.56	0.41
13:3U:351:ASN:ND2	13:3U:353:GLN:HE22	2.19	0.41
13:3U:489:GLU:HB3	13:3U:493:PHE:CZ	2.56	0.41
13:3U:543:LYS:NZ	13:3U:585:PRO:O	2.54	0.41
27:4C:49:GLN:CD	27:4C:83:ASN:HD21	2.28	0.41
33:4F:178:ASN:ND2	33:4F:182:ASN:OD1	2.46	0.41
34:4R:33:LEU:HB2	46:LF:92:PHE:CE2	2.45	0.41
34:4R:248:TYR:CD1	34:4R:281:ALA:HB1	2.56	0.41
35:4S:69:TYR:CD2	35:4S:116:TYR:HE1	2.39	0.41
36:5C:32:ALA:HB2	36:5C:46:ILE:O	2.20	0.41
37:5E:154:TYR:CE2	37:5F:11:TRP:CE2	3.08	0.41
37:5F:19:LEU:HA	37:5F:22:LYS:HE2	2.02	0.41
37:5G:88:HIS:ND1	37:5G:89:LYS:HE3	2.35	0.41
37:5H:123:ARG:HH12	45:OM:371:VAL:C	2.28	0.41
10:5Q:1:MET:C	10:5Q:3:LYS:H	2.28	0.41
34:5R:29:GLN:HA	46:LJ:74:ASP:OD2	2.20	0.41
34:5R:213:LYS:HD2	34:5R:213:LYS:HA	1.86	0.41
34:5R:418:THR:HG23	34:5R:419:GLN:CD	2.45	0.41
34:5R:553:ILE:HG13	34:5R:606:PHE:CE1	2.54	0.41
39:6F:19:SER:O	39:6F:20:THR:HB	2.20	0.41
40:6G:241:LYS:CE	46:VD:336:LYS:HD2	2.47	0.41
10:6Q:135:ASN:C	10:6Q:137:SER:H	2.28	0.41
34:6R:245:LEU:HD11	34:6R:249:LEU:HD12	2.03	0.41
34:6R:456:TYR:OH	45:EM:46:ASP:HB3	2.21	0.41
34:7R:296:GLY:HA3	46:DB:276:ARG:HB3	2.03	0.41
44:8R:199:ALA:HA	44:8R:202:TYR:CE1	2.55	0.41
45:AA:283:HIS:ND1	45:MA:89:PRO:HD3	2.36	0.41
46:AB:1:MET:O	46:AB:2:ARG:HG2	2.20	0.41
45:AC:47:ASP:HB2	45:AC:50:ASN:HB2	2.03	0.41
45:AC:88:HIS:ND1	45:AC:89:PRO:HD2	2.35	0.41
45:AC:275:ILE:HG23	45:AC:368:LEU:HD11	2.03	0.41
45:AC:387:VAL:HA	45:AC:390:ARG:HG2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AD:215:LEU:HB3	46:AD:217:LEU:HD23	2.02	0.41
46:AF:288:GLU:O	46:AF:291:GLN:HG3	2.21	0.41
46:AF:360:GLY:O	46:AF:361:LEU:HD22	2.21	0.41
46:AH:3:GLU:HG3	46:AH:62:ARG:NH1	2.36	0.41
45:AI:176:GLN:O	46:AJ:347:ASN:ND2	2.53	0.41
45:AI:222:PRO:HD2	46:AJ:324:LYS:HD2	2.02	0.41
46:AJ:281:TYR:CD1	46:MJ:86:ARG:HG3	2.46	0.41
46:AL:258:ILE:HD11	46:AL:266:PHE:HZ	1.86	0.41
45:AM:174:SER:HB2	45:AM:177:VAL:HB	2.02	0.41
45:BA:221:ARG:CZ	45:BA:221:ARG:HA	2.50	0.41
46:BB:319:GLY:HA3	46:BB:363:MET:SD	2.61	0.41
46:BD:139:LEU:HD13	46:BD:168:SER:HB3	2.01	0.41
46:BD:303:ALA:HB2	46:BD:377:MET:HE3	2.01	0.41
45:BE:141:VAL:HG11	45:BE:172:TYR:CD1	2.56	0.41
46:BF:376:GLU:OE1	46:BF:380:ARG:HD2	2.21	0.41
46:BH:178:THR:HG22	46:BH:179:VAL:N	2.36	0.41
45:BK:138:PHE:CE2	45:BK:169:PHE:HD2	2.39	0.41
46:BL:21:TRP:CZ3	46:BL:61:PRO:HB3	2.56	0.41
45:BM:88:HIS:CE1	45:CM:280:LYS:NZ	2.88	0.41
45:BM:96:LYS:HE3	45:BM:96:LYS:HB3	1.95	0.41
46:BN:69:GLU:HA	46:BN:70:PRO:HD3	1.85	0.41
45:CA:434:GLU:O	45:CA:437:ILE:HG12	2.20	0.41
46:CB:178:THR:HG22	46:CB:180:VAL:H	1.85	0.41
46:CD:208:TYR:CE2	46:CD:225:LEU:HD11	2.56	0.41
46:CF:54:ALA:HB1	46:DF:280:GLN:O	2.21	0.41
46:CF:69:GLU:OE2	46:CF:72:THR:HG23	2.21	0.41
46:CF:266:PHE:HE1	46:CF:370:ASN:HB2	1.85	0.41
45:CG:60:LYS:HG2	45:CG:61:HIS:N	2.36	0.41
46:CH:149:THR:HA	46:CH:152:ILE:HD12	2.02	0.41
46:CJ:346:PRO:HD2	45:CK:398:MET:SD	2.61	0.41
46:CL:350:LYS:HA	46:CL:350:LYS:HE2	2.03	0.41
45:CM:429:GLU:O	45:CM:433:GLU:OE1	2.37	0.41
46:CN:145:SER:HB2	46:CN:188:SER:HB3	2.02	0.41
46:CN:238:CYS:SG	46:CN:239:CYS:N	2.94	0.41
45:DE:123:ARG:HA	45:DE:123:ARG:HH11	1.86	0.41
46:DH:21:TRP:CZ3	46:DH:61:PRO:HB3	2.55	0.41
46:DH:165:GLU:HB2	46:DH:198:GLU:OE2	2.20	0.41
46:DH:213:ARG:HG3	46:DH:214:THR:HG23	2.01	0.41
45:DI:20:CYS:SG	45:DI:21:TRP:HD1	2.44	0.41
45:DK:74:VAL:HG23	45:DK:75:ILE:HD12	2.02	0.41
46:DL:213:ARG:HH12	46:DL:297:LYS:HB3	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DM:152:LEU:HD13	45:DM:155:GLU:OE2	2.21	0.41
45:DM:207:GLU:OE1	45:DM:207:GLU:N	2.37	0.41
45:DM:419:SER:O	45:DM:422:ARG:N	2.53	0.41
45:EA:68:LEU:HD21	45:EA:118:CYS:SG	2.61	0.41
45:EC:133:GLN:HB3	45:EC:252:ILE:HG21	2.03	0.41
45:EC:338:LYS:HA	45:EC:338:LYS:HD2	1.85	0.41
46:ED:6:HIS:O	46:ED:7:ILE:HD13	2.20	0.41
46:ED:69:GLU:HA	46:ED:70:PRO:HD3	1.83	0.41
46:ED:201:VAL:HG12	46:ED:266:PHE:O	2.20	0.41
46:ED:254:ALA:O	46:ED:258:ILE:HG12	2.20	0.41
45:EE:434:GLU:O	45:EE:437:ILE:HG22	2.20	0.41
46:EF:258:ILE:HG13	46:EF:258:ILE:O	2.19	0.41
46:EF:324:LYS:O	46:EF:327:ASP:N	2.53	0.41
46:EH:16:ILE:HD13	46:EH:226:ASN:OD1	2.21	0.41
45:EI:338:LYS:HE3	45:EI:340:THR:HG22	2.02	0.41
46:EL:12:CYS:HA	46:EL:15:GLN:NE2	2.36	0.41
45:EM:136:LEU:HD23	45:EM:167:LEU:HB2	2.03	0.41
46:FB:11:GLN:O	46:FB:15:GLN:HG2	2.21	0.41
46:FB:217:LEU:HD23	46:FB:217:LEU:H	1.85	0.41
46:FB:345:ILE:O	46:FB:345:ILE:HG23	2.20	0.41
46:FD:139:LEU:HD13	46:FD:168:SER:HB3	2.03	0.41
46:FD:208:TYR:CE2	46:FD:225:LEU:HD11	2.55	0.41
45:FE:185:TYR:HE1	45:FE:398:MET:HB3	1.86	0.41
46:FF:310:TYR:HB2	46:FF:341:PHE:HD2	1.86	0.41
46:FH:69:GLU:HA	46:FH:70:PRO:HD3	1.91	0.41
46:FJ:382:ALA:HB2	46:FJ:415:MET:HE3	2.02	0.41
46:FL:116:VAL:HA	46:FL:119:VAL:HG12	2.03	0.41
45:FM:217:LEU:HD21	45:FM:368:LEU:HD22	2.02	0.41
46:FN:174:LYS:HB3	46:FN:205:GLU:OE1	2.21	0.41
45:GA:326:LYS:HD2	45:GA:326:LYS:HA	1.92	0.41
45:GA:345:ASP:O	46:GD:388:MET:HE1	2.21	0.41
45:GE:268:MET:HG3	45:GE:380:ASN:HB2	2.03	0.41
45:GE:434:GLU:O	45:GE:437:ILE:HG12	2.21	0.41
46:GF:317:PHE:HB3	46:GF:321:MET:HE1	2.03	0.41
45:GI:434:GLU:O	45:GI:437:ILE:HG12	2.21	0.41
45:GK:229:ARG:CZ	45:GK:366:GLY:HA2	2.51	0.41
45:GK:336:LYS:HA	45:GK:336:LYS:HD3	1.89	0.41
45:GK:343:PHE:CZ	45:GK:351:PHE:HE2	2.39	0.41
45:GM:268:MET:HB2	45:GM:379:SER:O	2.21	0.41
46:HB:273:LEU:N	46:HB:292:GLN:HE22	2.15	0.41
45:HC:216:ASN:HB3	45:HC:275:ILE:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HC:313:MET:HB3	45:HC:380:ASN:O	2.21	0.41
46:HD:3:GLU:O	46:HD:130:LEU:HD12	2.21	0.41
46:HD:97:ALA:O	46:HD:103:LYS:HD2	2.20	0.41
46:HD:186:THR:OG1	46:HD:415:MET:SD	2.58	0.41
46:HD:288:GLU:O	46:HD:291:GLN:HG3	2.21	0.41
46:HH:147:MET:HE3	46:HH:147:MET:HB2	1.85	0.41
46:HH:396:HIS:O	46:HH:399:THR:OG1	2.30	0.41
46:HJ:293:MET:HE2	46:HJ:367:PHE:HD1	1.85	0.41
45:HK:331:SER:O	45:HK:335:ILE:HG12	2.21	0.41
45:HM:328:VAL:HG11	45:HM:353:VAL:HG21	2.02	0.41
46:HN:287:PRO:O	46:HN:290:THR:HG22	2.21	0.41
45:IA:9:VAL:HG21	45:IA:149:LEU:HB2	2.02	0.41
45:IA:350:GLY:HA2	46:ID:179:VAL:HG23	2.03	0.41
45:IA:386:GLU:OE2	45:IA:386:GLU:N	2.54	0.41
45:IC:33:ASP:HA	45:IC:85:GLN:HE21	1.85	0.41
45:IC:337:THR:O	45:IC:339:ARG:NE	2.54	0.41
45:IC:387:VAL:HA	45:IC:390:ARG:HG2	2.03	0.41
45:IE:3:GLU:OE2	45:IE:129:CYS:HB3	2.21	0.41
45:IE:141:VAL:HG22	45:IE:187:SER:HA	2.02	0.41
46:IF:9:GLY:HA2	46:IF:66:MET:O	2.21	0.41
46:IF:67:ASP:HA	46:IF:147:MET:HE1	2.02	0.41
46:IJ:66:MET:HA	46:IJ:91:VAL:O	2.20	0.41
46:IJ:217:LEU:HD11	46:IJ:220:PRO:HB3	2.03	0.41
46:IJ:316:LEU:HB2	46:IJ:366:THR:CG2	2.51	0.41
46:IJ:316:LEU:HB2	46:IJ:366:THR:HG22	2.02	0.41
46:IJ:324:LYS:HA	46:IJ:324:LYS:HD2	1.81	0.41
45:IK:259:LEU:HD11	45:IK:316:SER:HB3	2.01	0.41
46:IN:377:MET:O	46:IN:381:VAL:HG22	2.21	0.41
46:JB:418:LEU:O	46:JB:422:TYR:HB2	2.21	0.41
45:JC:152:LEU:HD12	45:JC:152:LEU:HA	1.86	0.41
45:JC:256:GLN:H	45:JC:256:GLN:CD	2.29	0.41
46:JF:161:ASP:OD1	46:JF:162:ARG:HG2	2.21	0.41
46:JL:263:LEU:HA	46:JL:422:TYR:HE2	1.86	0.41
46:JL:406:MET:CE	46:NL:306:ARG:HB2	2.50	0.41
45:KA:109:THR:HB	45:KA:110:ILE:HD12	2.03	0.41
45:KA:269:LEU:H	45:KA:269:LEU:HD23	1.86	0.41
46:KB:238:CYS:SG	46:KB:318:ARG:HD3	2.61	0.41
46:KB:374:ILE:HG23	46:KB:378:PHE:HE2	1.85	0.41
46:KB:423:GLN:O	46:KB:426:GLN:HG3	2.20	0.41
45:KC:174:SER:HB3	45:KC:177:VAL:O	2.21	0.41
45:KE:21:TRP:CH2	45:KE:63:PRO:HB3	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KE:287:SER:O	45:KE:291:ILE:HG23	2.21	0.41
46:KH:286:VAL:HG21	46:KH:325:GLU:CD	2.46	0.41
46:KN:9:GLY:HA2	46:KN:66:MET:O	2.21	0.41
46:KN:146:GLY:O	46:KN:149:THR:HG22	2.20	0.41
46:KN:172:SER:HB2	46:KN:174:LYS:NZ	2.36	0.41
46:KN:406:MET:O	46:KN:410:GLU:OE1	2.38	0.41
45:LA:40:LYS:O	45:LA:41:THR:HG22	2.20	0.41
46:LB:156:ARG:HG3	46:LB:195:ASN:HB3	2.02	0.41
46:LB:420:SER:O	46:LB:423:GLN:HG3	2.20	0.41
46:LF:309:ARG:NH2	46:LF:339:SER:O	2.53	0.41
45:LG:221:ARG:HH22	46:LH:321:MET:HA	1.84	0.41
45:LG:330:ALA:O	45:LG:334:THR:HG23	2.21	0.41
45:LI:301:MET:HE3	45:LI:302:MET:H	1.86	0.41
46:LL:244:GLY:HA2	46:LL:355:ASP:OD1	2.20	0.41
45:LM:384:ILE:O	45:LM:387:VAL:HG22	2.21	0.41
45:MC:175:PRO:HB2	45:MC:176:GLN:OE1	2.21	0.41
45:ME:174:SER:OG	45:ME:207:GLU:HB2	2.21	0.41
45:ME:313:MET:HB2	45:ME:380:ASN:O	2.20	0.41
45:MI:377:MET:SD	45:MI:379:SER:HB3	2.61	0.41
45:NA:422:ARG:HA	45:NA:422:ARG:HD2	1.79	0.41
46:NB:391:ARG:HA	46:NB:391:ARG:HD2	1.77	0.41
45:NC:136:LEU:HD13	45:NC:167:LEU:HB2	2.03	0.41
45:NC:181:VAL:HG13	45:NC:182:VAL:HG13	2.03	0.41
45:NC:407:TRP:CZ3	46:ND:255:VAL:HA	2.56	0.41
46:NF:396:HIS:HA	46:NF:399:THR:OG1	2.21	0.41
47:NG:501:GTP:O1G	46:NH:252:LYS:NZ	2.51	0.41
45:NI:203:MET:HG3	45:NI:384:ILE:HD11	2.03	0.41
45:NI:318:MET:O	45:NI:375:VAL:HA	2.21	0.41
46:NJ:69:GLU:CD	46:NJ:71:GLY:H	2.29	0.41
45:NK:100:ALA:HA	46:NL:252:LYS:HZ2	1.85	0.41
45:NK:352:LYS:HD2	45:NK:353:VAL:N	2.35	0.41
46:NL:42:LEU:HA	46:NL:45:GLU:OE2	2.20	0.41
46:NL:145:SER:HB2	46:NL:188:SER:OG	2.21	0.41
45:NM:239:THR:HG23	45:NM:243:ARG:HH21	1.85	0.41
45:NM:306:ASP:HB3	45:NM:309:HIS:ND1	2.36	0.41
46:NN:16:ILE:HD11	46:NN:229:VAL:CG1	2.50	0.41
45:OA:296:PHE:HE2	45:OA:335:ILE:HG21	1.85	0.41
45:OC:81:GLY:O	45:OC:84:ARG:HG3	2.21	0.41
45:OE:286:LEU:HD12	45:OE:371:VAL:HG11	2.02	0.41
45:OI:222:PRO:O	46:OJ:322:SER:HB2	2.20	0.41
46:OJ:152:ILE:HD12	46:OJ:164:MET:HE3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OJ:372:THR:HG21	46:OJ:426:GLN:HG3	2.02	0.41
45:OK:318:MET:N	45:OK:318:MET:SD	2.94	0.41
46:OL:97:ALA:O	46:OL:103:LYS:HE3	2.20	0.41
46:ON:200:MET:SD	46:ON:266:PHE:HB2	2.60	0.41
46:PB:65:LEU:HD22	46:PB:90:PHE:CE1	2.56	0.41
46:PB:87:PRO:HA	46:PB:90:PHE:HD2	1.86	0.41
45:PC:84:ARG:HH11	45:PC:85:GLN:HE22	1.69	0.41
45:PC:221:ARG:HA	46:PD:325:GLU:OE2	2.21	0.41
45:PC:426:ALA:HB1	45:PC:430:LYS:NZ	2.36	0.41
46:PD:234:SER:O	46:PD:241:ARG:NH2	2.54	0.41
46:PD:312:THR:HG22	46:PD:370:ASN:HB3	2.02	0.41
46:PF:286:VAL:HG12	46:PF:329:GLN:OE1	2.21	0.41
46:PH:16:ILE:HD13	46:PH:226:ASN:OD1	2.20	0.41
45:PI:10:GLY:O	45:PI:14:ILE:HG12	2.21	0.41
45:PI:320:ARG:HB2	45:PI:358:GLN:O	2.20	0.41
46:PJ:285:THR:OG1	46:PJ:287:PRO:HD2	2.21	0.41
45:PK:107:HIS:O	45:PK:107:HIS:ND1	2.54	0.41
45:PK:345:ASP:OD2	45:PK:439:THR:HG22	2.21	0.41
46:PL:16:ILE:HD13	46:PL:226:ASN:OD1	2.20	0.41
46:QB:409:THR:O	46:QB:412:GLU:HG3	2.21	0.41
46:QD:83:GLN:O	46:RD:281:TYR:OH	2.38	0.41
45:QE:411:GLU:N	45:QE:411:GLU:OE2	2.53	0.41
46:QF:375:GLN:HG3	46:QF:419:VAL:HG13	2.01	0.41
45:QG:21:TRP:CZ3	45:QG:63:PRO:HB3	2.56	0.41
45:QG:238:LEU:HD21	45:QG:378:ILE:HD11	2.03	0.41
45:QG:258:ASN:CB	45:QG:352:LYS:HE2	2.46	0.41
46:QH:145:SER:HB2	46:QH:188:SER:OG	2.21	0.41
46:QJ:12:CYS:O	46:QJ:16:ILE:HG12	2.20	0.41
46:QL:345:ILE:HD11	45:QM:401:LYS:NZ	2.35	0.41
46:QN:3:GLU:HG3	46:QN:62:ARG:HH12	1.86	0.41
46:QN:273:LEU:H	46:QN:292:GLN:NE2	2.11	0.41
46:RB:136:THR:HA	46:RB:167:PHE:HB2	2.02	0.41
46:RB:187:LEU:HD11	46:RB:408:PHE:CE1	2.55	0.41
45:RC:109:THR:HB	45:RC:110:ILE:HD12	2.03	0.41
45:RC:394:LYS:HA	45:RC:394:LYS:HD3	1.88	0.41
46:RD:134:GLN:O	46:RD:135:ILE:HD13	2.20	0.41
46:RD:173:PRO:HG2	46:RD:380:ARG:HD3	2.01	0.41
46:RD:175:VAL:HG23	46:RD:175:VAL:O	2.21	0.41
46:RD:222:TYR:O	46:RD:226:ASN:ND2	2.34	0.41
45:RE:129:CYS:SG	45:RE:132:LEU:HB3	2.60	0.41
46:RF:52:ASN:ND2	46:RF:62:ARG:HE	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RF:374:ILE:HG22	46:RF:378:PHE:HE2	1.85	0.41
46:RH:280:GLN:HG2	46:RH:281:TYR:CD1	2.52	0.41
46:RH:330:MET:HA	46:RH:333:VAL:HG12	2.03	0.41
46:RJ:210:ILE:HD11	46:RJ:299:MET:O	2.21	0.41
46:RJ:347:ASN:HD21	45:RK:178:SER:HB3	1.86	0.41
45:RK:169:PHE:HB3	45:RK:204:LEU:HD11	2.02	0.41
45:RK:345:ASP:OD1	45:RK:345:ASP:N	2.54	0.41
46:RL:14:ASN:OD1	46:RL:65:LEU:HG	2.21	0.41
46:RL:88:ASP:OD1	46:RL:88:ASP:N	2.52	0.41
46:RN:3:GLU:HG3	46:RN:62:ARG:HH12	1.86	0.41
46:RN:276:ARG:HA	46:RN:276:ARG:HD3	1.91	0.41
46:SD:73:MET:HA	46:SD:76:VAL:HG12	2.03	0.41
46:SD:131:GLN:O	46:SD:163:ILE:HG12	2.20	0.41
46:SD:243:PRO:HB3	45:SE:77:GLU:OE2	2.21	0.41
45:SE:258:ASN:HD22	45:SE:352:LYS:HD3	1.85	0.41
46:SF:204:ASN:O	46:SF:208:TYR:HD1	2.04	0.41
45:SG:288:VAL:O	45:SG:292:THR:HG23	2.21	0.41
46:SH:66:MET:HE3	46:SH:67:ASP:H	1.83	0.41
46:SH:293:MET:HG3	46:SH:365:VAL:HG11	2.01	0.41
45:SI:51:THR:HG22	45:SI:52:PHE:CD2	2.55	0.41
45:SI:431:ASP:O	45:SI:434:GLU:HG3	2.21	0.41
46:SJ:20:PHE:HA	46:SJ:230:SER:OG	2.20	0.41
46:SJ:156:ARG:HH11	46:SJ:164:MET:HG3	1.86	0.41
45:SK:316:SER:HA	45:SK:352:LYS:O	2.21	0.41
46:SL:276:ARG:HD2	46:SL:276:ARG:HA	1.76	0.41
46:SL:375:GLN:HG3	46:SL:422:TYR:CE2	2.55	0.41
45:SM:141:VAL:HG11	45:SM:172:TYR:HA	2.02	0.41
46:TB:417:ASP:O	46:TB:421:GLU:OE1	2.39	0.41
46:TD:3:GLU:HG2	46:TD:48:ASN:O	2.20	0.41
46:TD:175:VAL:O	46:TD:175:VAL:HG23	2.21	0.41
46:TD:407:GLU:O	46:TD:410:GLU:HG3	2.20	0.41
45:TE:422:ARG:HA	45:TE:422:ARG:NE	2.36	0.41
46:TF:4:ILE:HG13	46:TF:132:GLY:O	2.19	0.41
46:TF:316:LEU:HB2	46:TF:366:THR:CG2	2.51	0.41
46:TF:403:MET:HE1	46:TF:408:PHE:CE2	2.55	0.41
45:TG:141:VAL:HG11	45:TG:172:TYR:HA	2.02	0.41
46:TJ:389:PHE:O	46:TJ:392:LYS:HD3	2.21	0.41
45:TM:186:ASN:OD1	45:TM:187:SER:N	2.54	0.41
45:UA:101:ASN:HA	45:UA:144:GLY:H	1.86	0.41
45:UC:426:ALA:HB1	45:UC:430:LYS:HZ3	1.84	0.41
46:UD:424:GLN:HG2	46:UD:425:TYR:HD2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UF:113:ILE:HD13	46:UF:150:LEU:HD21	2.03	0.41
45:UI:339:ARG:NE	45:UI:339:ARG:HA	2.36	0.41
46:UJ:121:ARG:HG3	46:UJ:122:LYS:N	2.35	0.41
46:UJ:406:MET:O	46:UJ:410:GLU:OE1	2.39	0.41
46:UL:20:PHE:O	46:UL:24:ILE:HG12	2.20	0.41
45:UM:98:ASP:CG	45:UM:100:ALA:H	2.29	0.41
45:VA:178:SER:OG	46:VB:347:ASN:HB3	2.21	0.41
46:VB:58:ARG:HH21	46:WB:281:TYR:HA	1.86	0.41
46:VB:118:ASP:HA	46:VB:121:ARG:HH11	1.85	0.41
46:VD:221:THR:HG23	46:VD:223:GLY:H	1.85	0.41
46:VD:333:VAL:HA	46:VD:336:LYS:HG2	2.03	0.41
46:VH:117:LEU:HD13	46:VH:121:ARG:HH22	1.85	0.41
45:VI:101:ASN:HA	45:VI:144:GLY:H	1.85	0.41
45:VI:319:TYR:HB3	45:VI:323:VAL:HG11	2.03	0.41
46:VJ:154:LYS:O	46:VJ:157:GLU:HG2	2.20	0.41
46:VJ:222:TYR:HE1	49:VJ:501:GDP:C4	2.39	0.41
45:VK:141:VAL:HG11	45:VK:172:TYR:HA	2.03	0.41
45:VK:212:ILE:HD11	45:VK:300:ASN:HA	2.03	0.41
45:VK:221:ARG:HA	46:VL:324:LYS:HE3	2.03	0.41
45:VK:333:ALA:O	45:VK:337:THR:HG23	2.20	0.41
45:VK:338:LYS:CD	45:VK:340:THR:HG22	2.49	0.41
46:VL:116:VAL:HA	46:VL:119:VAL:HG12	2.03	0.41
45:VM:174:SER:HB2	45:VM:177:VAL:O	2.21	0.41
46:VN:105:HIS:CE1	46:VN:150:LEU:HD12	2.55	0.41
45:WA:149:LEU:O	45:WA:153:LEU:HD23	2.20	0.41
46:WB:204:ASN:HA	46:WB:207:LEU:HG	2.02	0.41
46:WB:225:LEU:O	46:WB:228:LEU:HG	2.20	0.41
45:WC:54:SER:HB3	45:WC:64:ARG:NH1	2.36	0.41
45:WC:88:HIS:HB3	45:WC:91:GLN:HG2	2.01	0.41
45:WE:175:PRO:HB2	45:WE:176:GLN:OE1	2.21	0.41
45:WG:332:ILE:HD11	45:WG:351:PHE:CD2	2.56	0.41
46:WH:41:ASP:OD1	46:WH:42:LEU:N	2.54	0.41
45:WI:329:ASN:C	45:WI:329:ASN:HD22	2.27	0.41
46:WL:22:GLU:HG2	46:WL:81:PHE:HB2	2.03	0.41
46:WL:318:ARG:HH11	46:WL:358:PRO:HG3	1.86	0.41
45:WM:67:PHE:HE1	45:WM:87:PHE:CE1	2.39	0.41
46:WN:68:LEU:HD11	46:WN:108:GLU:HG2	2.03	0.41
45:CE:115:VAL:O	45:CE:119:LEU:HD23	2.21	0.41
1:0A:46:LYS:HE2	34:7R:67:TYR:HD2	1.85	0.41
1:0A:53:HIS:HB3	45:MA:84:ARG:HH22	1.86	0.41
2:0B:61:ARG:HE	46:JH:75:SER:HB3	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0B:95:TYR:O	2:0B:96:TYR:CD1	2.74	0.41
2:0B:142:HIS:HB3	9:1N:37:LYS:HZ1	1.85	0.41
2:0B:182:LEU:HD13	9:1N:440:GLU:HG2	2.03	0.41
3:0C:70:HIS:HE1	3:0C:74:ASP:OD2	2.04	0.41
4:0D:125:PHE:C	4:0D:127:GLN:N	2.79	0.41
4:0D:191:PHE:O	4:0D:195:ARG:HG2	2.20	0.41
4:0D:217:ALA:O	4:0D:218:GLN:C	2.63	0.41
5:0E:166:ASP:O	5:0E:169:SER:OG	2.29	0.41
8:0H:396:ARG:HA	8:0H:399:LYS:HE2	2.01	0.41
9:0N:168:LYS:HD3	9:0N:168:LYS:HA	1.78	0.41
9:0N:169:GLN:OE1	9:0N:170:GLU:N	2.53	0.41
9:0N:191:LYS:HB2	9:0N:192:LEU:HD12	2.03	0.41
9:0N:206:PRO:HG3	9:0N:273:ARG:NH1	2.36	0.41
9:0N:253:LYS:NZ	46:KN:92:PHE:HZ	2.19	0.41
13:0U:7:ILE:HD11	13:0U:602:TRP:CZ3	2.56	0.41
13:0U:65:LYS:HE3	13:0U:112:CYS:O	2.20	0.41
14:0V:4:GLU:CG	13:3U:390:LEU:HD12	2.51	0.41
15:0X:23:GLY:HA3	46:MD:361:LEU:HD13	2.02	0.41
16:1B:316:PRO:HD2	16:1B:317:ILE:H	1.86	0.41
4:1D:22:ILE:HD12	4:1D:22:ILE:HA	1.98	0.41
4:1D:131:GLN:NE2	4:1D:135:LYS:HE2	2.36	0.41
5:1E:71:PHE:O	5:1E:79:VAL:HG11	2.20	0.41
5:1E:181:PHE:O	5:1E:185:VAL:HG23	2.21	0.41
7:1G:142:LYS:CE	45:JA:84:ARG:HD2	2.48	0.41
7:1G:164:PRO:HB2	46:KD:74:ASP:HB3	2.03	0.41
8:1H:207:LYS:O	8:1H:210:GLU:HG2	2.21	0.41
8:1H:220:LYS:HA	8:1H:223:LYS:NZ	2.35	0.41
8:1H:240:GLU:HA	8:1H:243:GLU:OE2	2.21	0.41
8:1H:273:GLU:O	8:1H:274:LEU:C	2.62	0.41
19:1J:223:PHE:HB2	22:2M:290:GLU:OE1	2.21	0.41
19:1J:343:PRO:HD2	19:1J:346:ASN:OD1	2.21	0.41
20:1K:17:ARG:O	20:1K:21:GLN:HG2	2.21	0.41
21:1L:89:TYR:HE2	21:1L:101:PHE:CD1	2.39	0.41
21:1L:272:ILE:HA	21:1L:275:ILE:HG22	2.02	0.41
21:1L:658:ARG:NH1	45:BE:80:THR:HB	2.36	0.41
21:1L:747:ILE:HD12	21:1L:752:LEU:HB2	2.02	0.41
21:1L:775:ARG:HH11	21:1L:790:ILE:HB	1.86	0.41
21:1L:778:ILE:O	21:1L:781:MET:HB3	2.20	0.41
21:1L:895:SER:HB2	45:CC:367:ASP:OD1	2.21	0.41
21:1L:915:ARG:O	21:1L:915:ARG:NH1	2.46	0.41
9:1N:6:VAL:HG11	46:IJ:128:ASP:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:1N:164:LYS:HE3	9:1N:165:PHE:CZ	2.56	0.41
9:1N:322:SER:HB2	9:1N:470:PHE:HE2	1.86	0.41
9:1N:349:LYS:HB3	9:1N:353:GLN:HE22	1.86	0.41
23:1O:220:VAL:HA	23:1O:223:ARG:NE	2.36	0.41
24:1P:168:ARG:CZ	45:TI:369:ALA:HB1	2.51	0.41
24:1P:391:ARG:HD2	45:TA:370:LYS:HD3	2.02	0.41
10:1Q:11:LEU:HD23	10:1Q:71:ILE:HD12	2.03	0.41
10:1Q:50:MET:HG2	10:1Q:159:ASN:HA	2.03	0.41
10:1Q:135:ASN:C	10:1Q:137:SER:H	2.29	0.41
25:1R:113:SER:OG	46:BF:279:GLN:HG2	2.21	0.41
11:1S:130:PRO:HG2	11:1S:179:ARG:HE	1.86	0.41
11:1S:269:VAL:HG22	11:1S:272:GLN:HG3	2.03	0.41
13:1U:59:SER:HB2	13:1U:60:ILE:HD12	2.03	0.41
13:1U:303:TYR:HB3	13:1U:305:ILE:HD11	2.01	0.41
13:1U:430:ARG:NH2	45:WE:365:GLY:H	2.19	0.41
26:1W:190:VAL:HG11	26:1W:195:TRP:CD1	2.55	0.41
26:1W:242:LEU:HD11	34:7R:15:HIS:CE1	2.55	0.41
15:1X:31:ASP:O	15:1X:32:LEU:HB2	2.21	0.41
15:1X:37:ARG:HB2	15:2X:141:PHE:HE2	1.85	0.41
15:1X:41:GLN:NE2	15:1X:42:LYS:HG2	2.36	0.41
1:2A:51:LYS:NZ	46:MJ:45:GLU:OE2	2.54	0.41
27:2C:38:ILE:O	27:2C:41:GLN:HG3	2.21	0.41
27:2C:56:LYS:HE3	27:2C:56:LYS:HB2	1.77	0.41
27:2C:75:LEU:O	27:2C:79:ASP:CB	2.69	0.41
27:2C:143:SER:HB3	27:2C:146:ARG:CD	2.46	0.41
4:2D:61:ILE:HG13	4:2D:62:THR:N	2.36	0.41
5:2E:89:ARG:HH11	5:2E:90:GLY:N	2.18	0.41
28:2F:83:ARG:NH1	45:GE:97:GLU:OE1	2.54	0.41
20:2K:242:LYS:O	20:2K:246:LYS:HG3	2.21	0.41
20:2K:313:GLN:O	20:2K:317:PHE:HD2	2.04	0.41
20:2K:315:ARG:HA	20:2K:315:ARG:HD3	1.65	0.41
21:2L:545:GLU:HG2	45:BM:279:GLU:OE1	2.21	0.41
21:2L:753:ARG:HG2	21:2L:756:GLU:OE2	2.21	0.41
21:2L:858:LEU:O	21:2L:862:LEU:HD23	2.20	0.41
9:2N:14:CYS:SG	9:2N:16:ILE:HG23	2.61	0.41
23:2O:174:GLU:CD	46:UL:56:GLY:H	2.29	0.41
23:2O:402:GLN:HA	23:2O:405:GLU:OE1	2.21	0.41
24:2P:367:GLU:O	24:2P:371:ARG:HG2	2.20	0.41
24:2P:394:GLN:O	24:2P:395:GLN:C	2.64	0.41
24:2P:400:LYS:HA	24:2P:400:LYS:HD3	1.87	0.41
24:2P:414:ASN:HD22	46:TL:280:GLN:HG3	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:2Q:117:PHE:HB2	10:2Q:118:ILE:HD12	2.03	0.41
25:2R:251:PHE:CE1	25:2R:276:ALA:HB1	2.56	0.41
11:2S:82:GLU:HA	12:2T:43:ILE:HD11	2.03	0.41
11:2S:88:THR:HG23	13:2U:309:LYS:HD3	2.01	0.41
11:2S:249:VAL:HA	11:2S:252:TYR:CE2	2.56	0.41
13:2U:110:PHE:C	13:2U:154:PHE:HD2	2.29	0.41
13:2U:285:SER:O	13:2U:293:PHE:HB2	2.21	0.41
13:2U:313:GLU:CD	13:2U:315:ARG:HH22	2.28	0.41
13:2U:319:HIS:CE1	13:2U:323:ILE:HG13	2.55	0.41
13:2U:325:ASP:OD1	13:2U:368:VAL:HG12	2.20	0.41
13:2U:446:LYS:HD3	13:2U:476:TRP:CZ2	2.55	0.41
14:2V:185:LEU:HD23	14:2V:186:HIS:CE1	2.56	0.41
26:2W:214:ARG:CZ	27:4C:183:SER:HB2	2.51	0.41
26:2W:216:GLU:OE2	26:2W:217:ARG:HG3	2.21	0.41
26:2W:245:LEU:HD12	26:2W:246:GLU:N	2.35	0.41
15:2X:3:ARG:H	46:ML:75:SER:CB	2.33	0.41
1:3A:73:ALA:O	45:AM:219:ILE:HD12	2.20	0.41
16:3B:101:VAL:HG13	16:3B:102:LYS:NZ	2.36	0.41
27:3C:174:TYR:CE2	27:3C:191:LEU:HD11	2.56	0.41
32:3D:5:ASN:O	32:3D:7:LYS:N	2.54	0.41
32:3D:6:LYS:NZ	46:KD:37:HIS:HA	2.36	0.41
5:3E:110:HIS:HB2	5:3E:112:THR:HG23	2.03	0.41
10:3Q:15:TYR:CE2	10:3Q:17:ILE:HB	2.56	0.41
10:3Q:68:THR:HB	10:3Q:152:LEU:HD22	2.02	0.41
10:3Q:79:ILE:C	10:3Q:80:ILE:HD13	2.45	0.41
10:3Q:177:LEU:HD11	10:3Q:181:PHE:HB3	2.03	0.41
25:3R:356:LYS:HB2	25:3R:356:LYS:HE3	1.77	0.41
25:3R:453:ILE:HB	25:3R:456:SER:OG	2.21	0.41
25:3R:471:ASN:N	25:3R:477:GLU:O	2.51	0.41
11:3S:256:LEU:CB	11:3S:309:MET:HG2	2.50	0.41
12:3T:10:ILE:HD11	12:3T:170:ALA:HB1	2.03	0.41
12:3T:48:THR:HG22	12:3T:153:ILE:HG12	2.02	0.41
12:3T:74:ILE:O	12:3T:74:ILE:HG13	2.21	0.41
12:3T:114:LYS:HD2	12:3T:115:LYS:N	2.36	0.41
12:3T:223:ARG:HA	12:3T:223:ARG:HD2	1.95	0.41
13:3U:123:GLN:HG3	46:WN:276:ARG:NH1	2.36	0.41
13:3U:477:ASP:OD1	13:3U:477:ASP:N	2.52	0.41
15:3X:52:GLN:HG3	45:MM:278:ALA:HB1	2.02	0.41
15:3X:87:ASP:O	15:3X:91:LYS:HG3	2.21	0.41
27:4C:35:LEU:HA	27:4C:38:ILE:HG22	2.02	0.41
27:4C:160:ASN:OD1	27:4C:163:GLY:N	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:4C:273:VAL:O	27:4C:277:LEU:HG	2.20	0.41
10:4Q:40:GLN:H	10:4Q:40:GLN:CD	2.29	0.41
34:4R:559:ASN:HD21	34:4R:561:ARG:HH22	1.69	0.41
36:5C:29:GLN:O	36:5C:30:LYS:HD3	2.20	0.41
36:5C:102:TYR:CE1	45:KI:394:LYS:HG3	2.56	0.41
37:5E:93:PHE:O	37:5E:97:ARG:HG3	2.20	0.41
37:5E:199:LYS:HB2	37:5E:204:LYS:HD3	2.03	0.41
10:5Q:65:PRO:HA	10:5Q:153:ARG:HH22	1.85	0.41
10:5Q:78:MET:HE2	10:5Q:132:ILE:HD11	2.03	0.41
35:5S:78:VAL:HG22	35:5S:80:PHE:HD1	1.85	0.41
35:5S:213:ASN:O	35:5S:217:LEU:HD13	2.21	0.41
35:5S:218:ILE:O	35:5S:222:LEU:HD23	2.20	0.41
39:6F:137:MET:O	39:6F:137:MET:HG2	2.21	0.41
40:6G:287:VAL:O	40:6G:290:GLN:HG2	2.20	0.41
41:6H:214:ASN:CG	46:FD:362:LYS:HE2	2.46	0.41
10:6Q:15:TYR:CZ	10:6Q:17:ILE:HB	2.56	0.41
10:6Q:38:THR:HA	10:6Q:45:SER:HA	2.02	0.41
10:6Q:95:ASP:OD2	10:6Q:101:ARG:HG3	2.21	0.41
34:6R:129:VAL:HG12	34:6R:144:PHE:HB3	2.02	0.41
34:6R:268:GLU:OE1	46:DN:280:GLN:HG3	2.21	0.41
34:6R:567:ASN:HA	34:6R:570:VAL:HG22	2.02	0.41
34:7R:83:PRO:HG2	34:7R:86:LEU:HD12	2.01	0.41
34:7R:355:TYR:O	34:7R:358:GLU:HG3	2.21	0.41
34:7R:565:ASP:OD2	34:7R:567:ASN:ND2	2.53	0.41
42:8L:61:UNK:HA	46:SL:276:ARG:NH2	2.35	0.41
44:8R:230:TYR:CD2	45:PE:282:TYR:HB2	2.56	0.41
46:AB:21:TRP:CZ2	46:AB:63:ALA:HB2	2.56	0.41
45:AC:55:GLU:OE1	45:AC:61:HIS:NE2	2.54	0.41
45:AC:284:GLU:CD	45:MC:88:HIS:HE2	2.28	0.41
46:AD:205:GLU:HG3	46:AD:206:ALA:N	2.36	0.41
45:AE:244:PHE:CZ	45:AE:358:GLN:HG2	2.56	0.41
46:AF:65:LEU:HB2	46:AF:90:PHE:CD1	2.55	0.41
46:AF:116:VAL:O	46:AF:120:VAL:HG23	2.21	0.41
45:AG:286:LEU:HA	45:AG:290:GLU:OE2	2.20	0.41
46:AH:344:TRP:H	46:AH:344:TRP:CD1	2.38	0.41
45:AK:304:LYS:HA	45:AK:304:LYS:HD2	1.79	0.41
46:AN:293:MET:SD	46:AN:365:VAL:HG11	2.61	0.41
45:BA:301:MET:HE3	45:BA:307:PRO:HD3	2.03	0.41
45:BA:419:SER:O	45:BA:422:ARG:HG3	2.20	0.41
45:BC:20:CYS:HA	45:BC:232:ALA:HB1	2.03	0.41
46:BD:218:THR:HG22	46:BD:219:THR:HG23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BF:221:THR:HG22	46:BF:222:TYR:N	2.36	0.41
45:BG:10:GLY:O	45:BG:14:ILE:HG12	2.21	0.41
45:BG:259:LEU:HD11	45:BG:316:SER:HB2	2.01	0.41
45:BG:387:VAL:HA	45:BG:390:ARG:HG2	2.01	0.41
45:BI:74:VAL:O	45:BI:78:VAL:HG23	2.20	0.41
45:BK:8:HIS:CE1	45:BK:17:GLY:HA3	2.55	0.41
45:BK:224:TYR:HA	45:BK:227:LEU:HD12	2.03	0.41
45:BK:356:ASN:OD1	45:BK:357:TYR:N	2.53	0.41
45:BK:407:TRP:HH2	46:BL:254:ALA:HB1	1.86	0.41
45:BM:100:ALA:HA	46:BN:252:LYS:HG2	2.03	0.41
45:BM:395:PHE:HZ	45:BM:418:PHE:HB3	1.84	0.41
46:BN:3:GLU:HG3	46:BN:62:ARG:NH1	2.36	0.41
46:BN:295:ASP:OD1	46:BN:296:ALA:N	2.54	0.41
46:BN:396:HIS:CD2	46:BN:397:TRP:CD1	3.08	0.41
45:CA:2:ARG:O	45:CA:51:THR:HA	2.21	0.41
45:CA:194:LEU:HB2	45:CA:198:THR:OG1	2.20	0.41
46:CB:1:MET:O	46:CB:2:ARG:HG2	2.21	0.41
45:CC:89:PRO:HD2	45:DC:280:LYS:HZ3	1.85	0.41
45:CC:196:GLU:HG2	45:CC:197:HIS:HD2	1.86	0.41
46:CF:88:ASP:OD1	46:CF:89:ASN:N	2.54	0.41
46:CF:299:MET:HE1	46:CF:367:PHE:CE2	2.45	0.41
46:CF:319:GLY:HA3	46:CF:321:MET:HE1	2.03	0.41
46:CF:324:LYS:H	45:CG:221:ARG:NH1	2.19	0.41
45:CG:71:GLU:HA	45:CG:72:PRO:HD3	1.89	0.41
45:CG:425:LEU:HD23	45:CG:425:LEU:HA	1.81	0.41
46:CH:12:CYS:SG	46:CH:169:VAL:HG21	2.61	0.41
46:CH:86:ARG:CZ	46:DH:281:TYR:CG	3.04	0.41
46:CH:406:MET:O	46:CH:409:THR:N	2.54	0.41
45:CI:149:LEU:O	45:CI:153:LEU:HD23	2.21	0.41
45:CI:426:ALA:HA	45:CI:429:GLU:OE1	2.20	0.41
46:CJ:21:TRP:CZ3	46:CJ:61:PRO:HB3	2.56	0.41
46:CJ:150:LEU:O	46:CJ:154:LYS:HG2	2.20	0.41
46:CJ:240:LEU:HD23	46:CJ:240:LEU:HA	1.89	0.41
46:CJ:418:LEU:O	46:CJ:422:TYR:HB2	2.21	0.41
45:CK:88:HIS:O	45:CK:91:GLN:HG2	2.21	0.41
46:CL:163:ILE:HD11	46:CL:251:ARG:HD3	2.02	0.41
46:CL:164:MET:O	46:CL:197:ASP:HB3	2.21	0.41
45:CM:9:VAL:HG13	45:CM:139:ASN:HB3	2.03	0.41
45:CM:107:HIS:ND1	45:CM:107:HIS:O	2.53	0.41
45:CM:115:VAL:O	45:CM:119:LEU:HD23	2.21	0.41
45:DA:269:LEU:HD23	45:DA:379:SER:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DA:271:SER:OG	45:DA:301:MET:HG3	2.21	0.41
46:DB:276:ARG:HD2	46:DB:276:ARG:HA	1.81	0.41
46:DB:322:SER:HB2	45:DC:222:PRO:O	2.21	0.41
46:DD:111:GLU:OE2	46:DD:111:GLU:N	2.53	0.41
46:DD:268:ILE:HG13	46:DD:300:MET:HG3	2.03	0.41
46:DD:418:LEU:HD12	46:DD:421:GLU:OE2	2.20	0.41
45:DE:68:LEU:HD23	45:DE:149:LEU:HD21	2.03	0.41
45:DE:141:VAL:HG22	45:DE:187:SER:HA	2.02	0.41
45:DE:259:LEU:HD21	45:DE:316:SER:HB2	2.01	0.41
45:DE:265:ILE:HG12	45:DE:432:TYR:CE1	2.56	0.41
45:DG:5:ILE:HB	45:DG:135:PHE:HD1	1.85	0.41
45:DG:51:THR:HG23	45:DG:52:PHE:CD2	2.56	0.41
45:DG:112:LYS:O	45:DG:115:VAL:HG12	2.21	0.41
45:DG:188:ILE:HD12	45:DG:425:LEU:CD1	2.50	0.41
45:DG:313:MET:HE3	45:DG:313:MET:HB2	1.88	0.41
46:DH:175:VAL:HG23	46:DH:175:VAL:O	2.21	0.41
46:DH:258:ILE:HG13	45:DI:407:TRP:HE1	1.86	0.41
46:DH:405:GLU:H	46:DH:405:GLU:CD	2.28	0.41
45:DI:26:LEU:HD11	45:DI:364:PRO:HD2	2.03	0.41
45:DI:68:LEU:HD21	45:DI:118:CYS:HB2	2.02	0.41
45:DI:352:LYS:HD2	46:DJ:177:ASP:O	2.20	0.41
45:DK:22:GLU:OE2	45:DK:229:ARG:NH1	2.53	0.41
46:DL:139:LEU:HD11	46:DL:168:SER:HB3	2.02	0.41
46:DL:293:MET:SD	46:DL:365:VAL:HG11	2.61	0.41
46:DL:409:THR:O	46:DL:412:GLU:HG3	2.21	0.41
45:DM:136:LEU:HD13	45:DM:167:LEU:HB2	2.03	0.41
45:DM:229:ARG:HH12	45:DM:363:VAL:HG21	1.85	0.41
46:DN:86:ARG:HE	46:EN:281:TYR:HD2	1.69	0.41
46:DN:91:VAL:HG21	46:DN:116:VAL:HB	2.02	0.41
45:EC:135:PHE:HE2	45:EC:164:LYS:HB3	1.86	0.41
45:EE:312:TYR:O	45:EE:313:MET:HE2	2.20	0.41
46:EF:8:GLN:HB3	46:EF:65:LEU:HD23	2.03	0.41
45:EG:90:GLU:HG2	45:EG:121:ARG:NH2	2.36	0.41
45:EG:115:VAL:HG22	45:EG:119:LEU:HD23	2.03	0.41
45:EG:430:LYS:O	45:EG:433:GLU:HG3	2.21	0.41
46:EH:187:LEU:HD21	46:EH:403:MET:HE1	2.02	0.41
46:EJ:252:LYS:HA	46:EJ:255:VAL:HG12	2.03	0.41
45:EK:90:GLU:OE1	45:EK:90:GLU:N	2.54	0.41
45:EK:109:THR:HB	45:EK:110:ILE:HD12	2.03	0.41
45:EK:116:ASP:O	45:EK:119:LEU:HG	2.21	0.41
45:EK:124:LYS:HE2	45:EK:124:LYS:HB2	1.90	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EK:203:MET:C	45:EK:204:LEU:HD22	2.46	0.41
46:EL:19:LYS:HZ3	46:EL:227:HIS:N	2.18	0.41
46:EL:226:ASN:HA	46:EL:229:VAL:HG22	2.03	0.41
46:EL:318:ARG:HH22	46:EL:358:PRO:CB	2.34	0.41
46:EL:324:LYS:O	46:EL:328:GLU:OE1	2.39	0.41
45:EM:9:VAL:HG21	45:EM:149:LEU:HB2	2.03	0.41
45:EM:20:CYS:HB3	45:EM:235:ILE:HD11	2.03	0.41
45:EM:76:ASP:HA	45:EM:79:ARG:HG2	2.03	0.41
45:EM:252:ILE:HA	45:EM:255:PHE:CE2	2.56	0.41
46:FB:87:PRO:HA	46:FB:90:PHE:CD2	2.55	0.41
45:FC:8:HIS:HB2	45:FC:67:PHE:CD1	2.56	0.41
45:FC:20:CYS:HA	45:FC:232:ALA:HB1	2.03	0.41
45:FE:71:GLU:OE2	45:FE:73:THR:OG1	2.38	0.41
45:FE:328:VAL:HG11	45:FE:353:VAL:HG21	2.02	0.41
45:FE:387:VAL:HA	45:FE:390:ARG:HG2	2.03	0.41
46:FF:3:GLU:OE2	46:FF:128:ASP:N	2.53	0.41
46:FF:207:LEU:HD23	46:FF:207:LEU:HA	1.77	0.41
45:FG:71:GLU:CD	46:FH:247:ASN:HD22	2.28	0.41
45:FG:88:HIS:NE2	45:GG:284:GLU:OE2	2.54	0.41
45:FG:118:CYS:O	45:FG:122:ILE:HG13	2.21	0.41
46:FH:21:TRP:HA	46:FH:24:ILE:HG22	2.03	0.41
46:FH:138:SER:HA	46:FH:169:VAL:HB	2.03	0.41
46:FH:199:CYS:C	46:FH:200:MET:HE2	2.46	0.41
45:FI:127:ASP:OD1	45:FI:128:ASN:N	2.53	0.41
46:FJ:31:ASP:OD2	46:FJ:35:THR:OG1	2.39	0.41
46:FJ:116:VAL:HA	46:FJ:119:VAL:HG12	2.03	0.41
45:FK:425:LEU:HD23	45:FK:425:LEU:HA	1.84	0.41
46:FL:293:MET:HE1	46:FL:315:ALA:HB2	2.03	0.41
46:FL:294:PHE:HE1	46:FL:333:VAL:HG21	1.86	0.41
45:FM:288:VAL:HA	45:FM:291:ILE:HG12	2.01	0.41
46:FN:420:SER:O	46:FN:423:GLN:HG3	2.21	0.41
45:GA:67:PHE:HB2	45:GA:92:LEU:HD23	2.03	0.41
45:GA:100:ALA:HA	46:GB:252:LYS:HD3	2.02	0.41
45:GA:212:ILE:HG13	45:GA:302:MET:HE1	2.03	0.41
46:GB:344:TRP:CE3	46:GB:345:ILE:HG23	2.56	0.41
45:GC:121:ARG:NH1	45:GC:124:LYS:HZ3	2.17	0.41
45:GC:209:ILE:HG12	45:GC:302:MET:SD	2.61	0.41
45:GC:268:MET:HG3	45:GC:380:ASN:HB2	2.02	0.41
45:GC:271:SER:HB2	45:GC:301:MET:HA	2.03	0.41
46:GF:240:LEU:HD12	46:GF:240:LEU:O	2.21	0.41
46:GF:310:TYR:CD1	46:GF:371:SER:HB2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GG:338:LYS:HA	45:GG:338:LYS:HD2	1.83	0.41
46:GH:316:LEU:HG	46:GH:352:SER:HB2	2.03	0.41
45:GI:2:ARG:HD3	45:GI:2:ARG:H	1.86	0.41
45:GI:88:HIS:HB3	45:GI:91:GLN:HG2	2.03	0.41
45:GI:326:LYS:HZ3	46:GL:208:TYR:CB	2.34	0.41
45:GI:430:LYS:O	45:GI:433:GLU:HG2	2.20	0.41
45:GK:88:HIS:NE2	45:HK:284:GLU:OE2	2.52	0.41
46:GL:153:SER:O	46:GL:157:GLU:HG2	2.21	0.41
46:GL:403:MET:HG3	46:GL:407:GLU:OE2	2.21	0.41
46:GN:58:ARG:HD3	46:HN:280:GLN:OE1	2.21	0.41
46:GN:293:MET:HE2	46:GN:365:VAL:HG21	2.01	0.41
46:HB:138:SER:HA	46:HB:169:VAL:HB	2.03	0.41
46:HB:330:MET:HB3	46:HB:349:ILE:HD12	2.03	0.41
45:HC:141:VAL:HG11	45:HC:172:TYR:HD1	1.85	0.41
45:HC:326:LYS:NZ	46:HF:208:TYR:HB3	2.36	0.41
46:HD:54:ALA:HB3	46:HD:58:ARG:HG2	2.03	0.41
45:HE:140:SER:OG	47:HE:501:GTP:O2B	2.39	0.41
45:HE:185:TYR:HE1	45:HE:398:MET:HG3	1.86	0.41
45:HG:217:LEU:HD23	45:HG:217:LEU:HA	1.94	0.41
45:HG:251:ASP:HB2	45:HG:254:GLU:HG2	2.03	0.41
45:HI:89:PRO:CD	45:II:283:HIS:HD1	2.34	0.41
45:HI:222:PRO:HG2	46:HJ:324:LYS:HD3	2.03	0.41
45:HI:331:SER:O	45:HI:335:ILE:HG12	2.21	0.41
45:HI:342:GLN:OE1	45:HI:342:GLN:N	2.54	0.41
46:HJ:31:ASP:OD2	46:HJ:35:THR:HB	2.20	0.41
46:HJ:51:TYR:HE2	46:HJ:61:PRO:HG3	1.86	0.41
46:HJ:187:LEU:HD11	46:HJ:408:PHE:CE2	2.56	0.41
46:HJ:304:ASP:OD2	46:HJ:306:ARG:NH2	2.53	0.41
45:HK:9:VAL:HG13	45:HK:139:ASN:HB3	2.03	0.41
45:HK:384:ILE:O	45:HK:387:VAL:HG22	2.21	0.41
46:HL:116:VAL:HA	46:HL:119:VAL:HG12	2.03	0.41
46:HL:173:PRO:HD3	46:HL:380:ARG:HH12	1.86	0.41
45:HM:206:ASN:OD1	47:HM:501:GTP:N2	2.43	0.41
46:HN:97:ALA:HA	46:HN:103:LYS:HG2	2.03	0.41
46:HN:407:GLU:O	46:HN:410:GLU:HG3	2.20	0.41
45:IA:169:PHE:HB3	45:IA:204:LEU:HD11	2.02	0.41
45:IA:319:TYR:CD2	45:IA:323:VAL:HG11	2.56	0.41
46:IB:3:GLU:HA	46:IB:49:VAL:HG13	2.02	0.41
46:IB:255:VAL:HG13	46:IB:256:ASN:HD22	1.86	0.41
45:IC:22:GLU:OE2	45:IC:83:TYR:HE2	2.03	0.41
45:IC:120:ASP:O	45:IC:124:LYS:HG2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ID:3:GLU:O	46:ID:130:LEU:HD12	2.21	0.41
46:ID:293:MET:HG3	46:ID:367:PHE:HB2	2.03	0.41
45:IE:141:VAL:HG11	45:IE:172:TYR:HA	2.02	0.41
46:IF:396:HIS:HA	46:IF:399:THR:OG1	2.21	0.41
45:IG:287:SER:O	45:IG:291:ILE:HG23	2.21	0.41
46:IH:6:HIS:CD2	46:IH:134:GLN:NE2	2.86	0.41
46:IH:87:PRO:HG2	45:JE:280:LYS:HG2	2.02	0.41
46:IH:318:ARG:NH1	46:IH:358:PRO:HG3	2.36	0.41
45:II:291:ILE:HG13	45:II:292:THR:N	2.36	0.41
45:IK:358:GLN:OE1	45:IK:359:PRO:HD2	2.21	0.41
46:IL:260:PHE:HB2	46:IL:263:LEU:HD13	2.03	0.41
45:IM:224:TYR:CE2	46:IN:323:THR:HG21	2.56	0.41
45:IM:311:LYS:N	45:IM:382:THR:OG1	2.52	0.41
45:IM:409:VAL:HG21	45:IM:415:GLU:OE1	2.21	0.41
46:IN:273:LEU:N	46:IN:292:GLN:HE22	2.15	0.41
46:IN:377:MET:SD	46:IN:380:ARG:HD3	2.60	0.41
45:JA:33:ASP:OD1	45:JA:34:GLY:N	2.54	0.41
46:JB:180:VAL:HG12	46:JB:180:VAL:O	2.21	0.41
45:JC:174:SER:HB2	45:JC:177:VAL:O	2.20	0.41
46:JD:178:THR:HG22	46:JD:180:VAL:H	1.86	0.41
45:JE:141:VAL:CG1	45:JE:172:TYR:HA	2.51	0.41
45:JE:188:ILE:HG22	45:JE:421:ALA:HB1	2.01	0.41
45:JE:268:MET:HB2	45:JE:379:SER:O	2.21	0.41
46:JF:170:VAL:HG21	46:JF:377:MET:CE	2.51	0.41
46:JF:293:MET:HE1	46:JF:315:ALA:HB2	2.03	0.41
45:JG:265:ILE:HG23	45:JG:432:TYR:CZ	2.56	0.41
46:JH:67:ASP:HB3	46:JH:73:MET:HE1	2.03	0.41
46:JH:396:HIS:HA	46:JH:399:THR:OG1	2.21	0.41
45:JK:223:THR:HG23	45:JK:225:THR:H	1.85	0.41
45:JK:244:PHE:HB2	45:JK:356:ASN:HD21	1.86	0.41
45:JK:326:LYS:CE	46:JN:220:PRO:HD2	2.45	0.41
45:JK:392:ASP:OD1	45:JK:422:ARG:NH1	2.53	0.41
45:JM:185:TYR:CE1	45:JM:398:MET:HE2	2.56	0.41
46:JN:9:GLY:HA2	46:JN:66:MET:O	2.21	0.41
46:JN:69:GLU:OE2	46:JN:71:GLY:N	2.51	0.41
46:JN:86:ARG:NH1	46:KN:281:TYR:O	2.53	0.41
46:JN:324:LYS:O	46:JN:327:ASP:N	2.53	0.41
45:KA:2:ARG:HD2	45:KA:242:LEU:O	2.21	0.41
45:KA:404:PHE:CD1	46:KB:259:PRO:HA	2.55	0.41
46:KB:5:VAL:HG12	46:KB:62:ARG:HD3	2.02	0.41
46:KB:198:GLU:OE2	46:KB:254:ALA:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KC:51:THR:HG21	45:KC:243:ARG:HD3	2.03	0.41
45:KC:68:LEU:HD22	45:KC:153:LEU:HD11	2.03	0.41
45:KC:178:SER:OG	45:KC:183:GLU:OE1	2.38	0.41
45:KC:195:LEU:HD13	45:KC:428:LEU:HD11	2.03	0.41
45:KC:210:TYR:HB3	46:KD:324:LYS:NZ	2.36	0.41
46:KD:8:GLN:HE21	46:KD:65:LEU:HD11	1.85	0.41
46:KD:108:GLU:O	46:KD:111:GLU:HG2	2.21	0.41
46:KD:214:THR:OG1	46:KD:215:LEU:N	2.53	0.41
46:KD:293:MET:HE3	46:KD:294:PHE:CZ	2.56	0.41
46:KD:372:THR:HG21	46:KD:426:GLN:HB2	2.02	0.41
46:KD:376:GLU:OE1	46:KD:380:ARG:NH2	2.53	0.41
45:KE:31:GLN:NE2	45:KE:37:PRO:HA	2.36	0.41
45:KE:291:ILE:HG13	45:KE:292:THR:N	2.35	0.41
45:KE:430:LYS:O	45:KE:433:GLU:HG3	2.21	0.41
46:KF:146:GLY:O	46:KF:149:THR:HG22	2.20	0.41
46:KF:292:GLN:HG2	46:KF:298:ASN:HD22	1.85	0.41
46:KH:207:LEU:HD13	46:KH:225:LEU:HB3	2.02	0.41
46:KH:311:LEU:HD23	46:KH:311:LEU:HA	1.90	0.41
46:KJ:260:PHE:HB2	46:KJ:263:LEU:HD13	2.01	0.41
45:KK:303:ALA:O	45:KK:305:CYS:N	2.52	0.41
45:KK:371:VAL:HG22	45:KK:373:ARG:H	1.85	0.41
46:KL:100:ASN:HB3	46:KL:103:LYS:HB2	2.02	0.41
46:KL:113:ILE:HD13	46:KL:150:LEU:HD22	2.01	0.41
46:KL:117:LEU:HA	46:KL:120:VAL:HG12	2.02	0.41
45:KM:72:PRO:HA	45:KM:75:ILE:HG22	2.02	0.41
45:LA:296:PHE:HE1	45:LA:335:ILE:HG13	1.86	0.41
46:LB:87:PRO:HA	46:LB:90:PHE:HD2	1.85	0.41
46:LB:122:LYS:HE2	46:MB:291:GLN:OE1	2.20	0.41
45:LC:70:LEU:HB3	45:LC:97:GLU:O	2.20	0.41
45:LC:203:MET:HA	45:LC:203:MET:HE2	2.03	0.41
45:LC:390:ARG:HG3	45:LC:391:LEU:N	2.35	0.41
45:LE:244:PHE:CE2	45:LE:358:GLN:HG2	2.55	0.41
46:LH:334:GLN:HE22	46:LH:348:ASN:H	1.67	0.41
45:LI:244:PHE:CE2	45:LI:358:GLN:HG2	2.56	0.41
46:LJ:287:PRO:HA	46:LJ:290:THR:HG22	2.03	0.41
46:LJ:313:ALA:HB1	46:LJ:367:PHE:CE2	2.56	0.41
46:LJ:417:ASP:O	46:LJ:421:GLU:HG3	2.21	0.41
45:LK:222:PRO:C	46:LL:324:LYS:HE2	2.46	0.41
46:LL:2:ARG:HG3	46:LL:240:LEU:HD11	2.02	0.41
46:LL:117:LEU:HD23	46:LL:117:LEU:HA	1.95	0.41
46:LL:374:ILE:HG22	46:LL:422:TYR:CE2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MA:289:ALA:O	45:MA:292:THR:HG22	2.21	0.41
46:MB:16:ILE:HD13	46:MB:226:ASN:OD1	2.21	0.41
45:MC:118:CYS:O	45:MC:122:ILE:HG12	2.21	0.41
45:MC:319:TYR:HB3	45:MC:323:VAL:HG21	2.02	0.41
45:ME:90:GLU:OE1	45:ME:121:ARG:NH2	2.54	0.41
46:MF:116:VAL:HA	46:MF:119:VAL:HG12	2.03	0.41
45:MG:265:ILE:HG12	45:MG:432:TYR:CE2	2.49	0.41
46:MH:2:ARG:HB2	46:MH:131:GLN:HB2	2.03	0.41
46:MH:21:TRP:CZ2	46:MH:63:ALA:HB2	2.56	0.41
46:MH:332:ASN:O	46:MH:336:LYS:HG2	2.21	0.41
45:MI:276:ILE:HG12	45:MI:281:ALA:HA	2.03	0.41
46:MJ:10:GLY:O	46:MJ:14:ASN:ND2	2.54	0.41
46:MJ:21:TRP:CD1	46:MJ:85:PHE:HE1	2.39	0.41
46:MJ:68:LEU:HB3	46:MJ:96:GLY:HA2	2.02	0.41
46:MJ:294:PHE:CD2	46:MJ:333:VAL:HG21	2.56	0.41
45:MK:84:ARG:H	45:MK:84:ARG:HG2	1.68	0.41
45:MK:155:GLU:OE2	45:MK:197:HIS:NE2	2.54	0.41
45:MK:265:ILE:HG22	45:MK:380:ASN:HD21	1.86	0.41
46:ML:102:ALA:HB2	46:ML:398:TYR:CD1	2.54	0.41
46:ML:117:LEU:HA	46:ML:120:VAL:HG12	2.02	0.41
45:MM:387:VAL:HA	45:MM:390:ARG:HG2	2.03	0.41
45:NA:9:VAL:HG22	45:NA:146:GLY:HA2	2.03	0.41
45:NA:280:LYS:HZ3	45:NA:282:TYR:H	1.68	0.41
45:NA:352:LYS:HZ3	46:ND:178:THR:HA	1.86	0.41
46:NB:113:ILE:O	46:NB:117:LEU:HD23	2.21	0.41
45:NC:169:PHE:HA	45:NC:202:VAL:HG22	2.03	0.41
45:NC:265:ILE:HG22	45:NC:380:ASN:HD21	1.86	0.41
45:NC:284:GLU:HB3	45:NC:286:LEU:HD22	2.03	0.41
46:ND:73:MET:HE2	46:ND:73:MET:HA	2.02	0.41
46:ND:293:MET:CE	46:ND:365:VAL:HG21	2.47	0.41
45:NE:54:SER:HB3	45:NE:64:ARG:NH1	2.35	0.41
45:NE:179:THR:O	46:NF:350:LYS:HA	2.21	0.41
45:NE:227:LEU:O	45:NE:231:ILE:HG12	2.21	0.41
46:NF:23:VAL:HG11	46:NF:230:SER:HB3	2.03	0.41
45:NG:55:GLU:HG3	45:NG:57:GLY:H	1.86	0.41
46:NH:407:GLU:HA	46:NH:410:GLU:HG3	2.03	0.41
45:NI:97:GLU:OE1	45:NI:98:ASP:N	2.53	0.41
46:NJ:256:ASN:HB3	46:NJ:350:LYS:HD2	2.02	0.41
46:NJ:257:LEU:HA	46:NJ:312:THR:HG21	2.03	0.41
46:NJ:324:LYS:O	46:NJ:328:GLU:HG3	2.21	0.41
45:NK:5:ILE:CD1	45:NK:132:LEU:HD11	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NK:310:GLY:HA3	45:NK:383:ALA:HB2	2.02	0.41
45:NM:222:PRO:HD2	46:NN:324:LYS:CE	2.50	0.41
45:NM:306:ASP:OD2	45:NM:308:ARG:HB2	2.20	0.41
46:NN:326:VAL:HG21	46:NN:353:ILE:HD11	2.02	0.41
45:OA:8:HIS:HD2	45:OA:138:PHE:HB2	1.86	0.41
45:OA:319:TYR:HB3	45:OA:323:VAL:HG11	2.03	0.41
46:OB:68:LEU:HB3	46:OB:96:GLY:HA2	2.03	0.41
46:OB:359:LYS:HD2	46:OB:359:LYS:HA	1.73	0.41
46:OB:391:ARG:HD2	46:OB:391:ARG:HA	1.80	0.41
45:OC:56:THR:HG23	45:OC:58:ALA:H	1.86	0.41
45:OC:75:ILE:HD12	45:OC:75:ILE:H	1.86	0.41
45:OC:413:MET:HE3	45:OC:417:GLU:CD	2.45	0.41
46:OD:175:VAL:O	46:OD:175:VAL:HG23	2.21	0.41
45:OE:156:ARG:HD3	45:OE:156:ARG:HA	1.94	0.41
46:OF:46:ARG:HD3	46:OF:46:ARG:HA	1.81	0.41
46:OF:68:LEU:HB3	46:OF:96:GLY:HA2	2.03	0.41
46:OF:101:TRP:NE1	46:OF:146:GLY:HA2	2.36	0.41
45:OG:49:PHE:O	45:OG:53:PHE:N	2.51	0.41
46:OH:97:ALA:HB2	46:OH:143:THR:HB	2.02	0.41
46:OH:101:TRP:HB3	46:OH:398:TYR:HE2	1.85	0.41
46:OJ:319:GLY:HA2	46:OJ:357:PRO:HD3	2.02	0.41
46:OJ:392:LYS:HA	46:OJ:395:LEU:HD12	2.02	0.41
45:OK:276:ILE:HG22	45:OK:277:SER:O	2.20	0.41
45:OM:139:ASN:O	45:OM:170:THR:HA	2.21	0.41
46:ON:3:GLU:H	46:ON:3:GLU:CD	2.28	0.41
46:ON:83:GLN:CD	46:ON:83:GLN:H	2.27	0.41
46:ON:99:ASN:HA	46:ON:142:GLY:HA3	2.02	0.41
46:ON:267:MET:HB3	46:ON:299:MET:CE	2.50	0.41
46:ON:391:ARG:HA	46:ON:391:ARG:HD2	1.82	0.41
45:PA:11:GLN:HA	45:PA:14:ILE:HG22	2.03	0.41
45:PA:149:LEU:O	45:PA:153:LEU:HD23	2.20	0.41
46:PD:203:ASP:O	46:PD:207:LEU:HG	2.21	0.41
45:PE:149:LEU:O	45:PE:153:LEU:HD23	2.20	0.41
45:PE:387:VAL:O	45:PE:390:ARG:HG2	2.21	0.41
46:PF:32:PRO:HG3	46:PF:81:PHE:CZ	2.55	0.41
46:PF:396:HIS:NE2	46:PF:397:TRP:NE1	2.69	0.41
45:PG:252:ILE:O	45:PG:255:PHE:HB2	2.21	0.41
46:PH:21:TRP:CZ3	46:PH:61:PRO:HB3	2.55	0.41
46:PH:148:GLY:O	46:PH:152:ILE:HG13	2.21	0.41
45:PI:183:GLU:HG2	45:PI:184:PRO:CD	2.51	0.41
45:PI:426:ALA:HB1	45:PI:430:LYS:HZ1	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PJ:44:LEU:HD22	46:PJ:47:ILE:HD13	2.02	0.41
46:PJ:200:MET:HE1	46:PJ:266:PHE:CB	2.51	0.41
46:PL:131:GLN:O	46:PL:162:ARG:HD2	2.20	0.41
46:PL:318:ARG:HB2	46:PL:364:ALA:HB3	2.03	0.41
45:PM:75:ILE:O	45:PM:79:ARG:HG3	2.21	0.41
45:PM:75:ILE:HD12	45:PM:92:LEU:HB3	2.02	0.41
45:PM:426:ALA:HA	45:PM:429:GLU:CD	2.46	0.41
46:PN:5:VAL:HG12	46:PN:62:ARG:HB3	2.03	0.41
46:PN:113:ILE:HA	46:PN:116:VAL:HG12	2.02	0.41
45:QA:75:ILE:HG23	45:QA:92:LEU:HD23	2.03	0.41
46:QB:164:MET:HB3	46:QB:197:ASP:H	1.86	0.41
46:QD:259:PRO:HA	45:QE:404:PHE:CD1	2.55	0.41
45:QE:21:TRP:CZ3	45:QE:63:PRO:HB3	2.56	0.41
45:QE:239:THR:HG23	45:QE:243:ARG:HH21	1.85	0.41
46:QF:65:LEU:O	46:QF:91:VAL:HG12	2.21	0.41
46:QF:395:LEU:O	46:QF:399:THR:HG23	2.21	0.41
45:QG:70:LEU:HB3	45:QG:97:GLU:O	2.21	0.41
45:QG:271:SER:OG	45:QG:301:MET:HA	2.21	0.41
45:QG:395:PHE:HZ	45:QG:418:PHE:HB3	1.84	0.41
46:QH:226:ASN:HD21	49:QH:501:GDP:HN1	1.69	0.41
46:QH:418:LEU:HD12	46:QH:421:GLU:OE2	2.21	0.41
45:QI:31:GLN:OE1	45:QI:37:PRO:HD3	2.21	0.41
45:QI:147:SER:HB2	45:QI:190:SER:HB3	2.03	0.41
45:QI:251:ASP:H	45:QI:254:GLU:CG	2.34	0.41
46:QJ:258:ILE:HD11	45:QK:407:TRP:CZ2	2.55	0.41
46:QJ:318:ARG:HB3	46:QJ:357:PRO:HA	2.03	0.41
46:QJ:319:GLY:HA2	46:QJ:357:PRO:HD3	2.03	0.41
45:QK:60:LYS:HG2	45:QK:61:HIS:N	2.36	0.41
45:QK:368:LEU:HD23	45:QK:368:LEU:HA	1.92	0.41
46:QL:175:VAL:HG22	46:QL:205:GLU:HB3	2.03	0.41
45:QM:75:ILE:HG23	45:QM:92:LEU:HG	2.02	0.41
45:QM:79:ARG:HA	45:QM:87:PHE:CZ	2.52	0.41
45:QM:121:ARG:HA	45:QM:124:LYS:NZ	2.36	0.41
45:QM:311:LYS:HD2	45:QM:342:GLN:HG3	2.03	0.41
46:QN:74:ASP:OD1	46:QN:77:ARG:NH2	2.54	0.41
45:RA:242:LEU:HD11	45:RA:252:ILE:HG13	2.01	0.41
46:RB:4:ILE:HG13	46:RB:132:GLY:O	2.21	0.41
46:RB:284:LEU:HD21	46:RB:362:LYS:HD2	2.03	0.41
45:RC:136:LEU:HD12	45:RC:137:VAL:N	2.36	0.41
45:RC:148:GLY:O	45:RC:152:LEU:HD23	2.21	0.41
45:RC:206:ASN:HA	45:RC:209:ILE:HG12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RC:239:THR:HG23	45:RC:243:ARG:HH21	1.85	0.41
45:RC:271:SER:OG	45:RC:301:MET:SD	2.79	0.41
45:RC:384:ILE:O	45:RC:387:VAL:HG12	2.21	0.41
46:RD:20:PHE:HA	46:RD:230:SER:OG	2.21	0.41
46:RD:65:LEU:HD22	46:RD:90:PHE:CE1	2.56	0.41
46:RD:285:THR:OG1	46:RD:288:GLU:HG2	2.20	0.41
46:RD:313:ALA:HB1	46:RD:367:PHE:CE1	2.55	0.41
46:RD:405:GLU:CD	46:RD:405:GLU:H	2.29	0.41
45:RE:20:CYS:HA	45:RE:232:ALA:HB1	2.02	0.41
45:RE:174:SER:HB3	45:RE:207:GLU:CD	2.46	0.41
45:RE:260:VAL:HG23	46:RF:397:TRP:CZ2	2.49	0.41
45:RE:272:TYR:O	45:RE:300:ASN:ND2	2.52	0.41
45:RE:422:ARG:HH11	45:RE:422:ARG:HA	1.86	0.41
46:RF:68:LEU:HD22	46:RF:97:ALA:HB2	2.03	0.41
46:RF:174:LYS:HE2	46:RF:174:LYS:HB2	1.85	0.41
46:RF:211:CYS:SG	46:RF:220:PRO:HB3	2.61	0.41
46:RF:226:ASN:HA	46:RF:229:VAL:HG22	2.03	0.41
46:RF:228:LEU:HD11	46:RF:273:LEU:HD11	2.03	0.41
46:RF:309:ARG:NH2	46:RF:426:GLN:HG2	2.36	0.41
45:RG:296:PHE:HE2	45:RG:335:ILE:HD13	1.86	0.41
45:RG:370:LYS:HA	45:RG:370:LYS:HD2	1.83	0.41
45:RG:408:TYR:HB3	45:RG:413:MET:HE1	2.03	0.41
45:RI:287:SER:O	45:RI:291:ILE:HG23	2.20	0.41
46:RJ:324:LYS:O	46:RJ:328:GLU:HB2	2.21	0.41
45:RK:5:ILE:O	45:RK:135:PHE:HA	2.20	0.41
45:RK:64:ARG:HA	45:RK:125:LEU:HD11	2.03	0.41
45:RK:185:TYR:CE1	45:RK:398:MET:HE2	2.56	0.41
46:RL:3:GLU:HA	46:RL:49:VAL:HG13	2.03	0.41
46:RL:101:TRP:HD1	46:RL:145:SER:OG	2.04	0.41
46:RL:222:TYR:CD1	49:RL:501:GDP:C6	3.09	0.41
46:RL:345:ILE:O	46:RL:345:ILE:HG13	2.20	0.41
45:RM:71:GLU:HA	45:RM:72:PRO:HD3	1.93	0.41
46:RN:105:HIS:CE1	46:RN:150:LEU:HD12	2.55	0.41
45:SA:71:GLU:HA	45:SA:72:PRO:HD3	1.91	0.41
46:SB:24:ILE:HA	46:SB:27:GLU:CD	2.46	0.41
45:SC:123:ARG:HA	45:SC:123:ARG:HD3	1.87	0.41
45:SC:187:SER:O	45:SC:190:SER:OG	2.35	0.41
45:SC:265:ILE:O	45:SC:265:ILE:HG23	2.20	0.41
46:SD:1:MET:SD	46:SD:2:ARG:N	2.94	0.41
46:SD:6:HIS:HE1	46:SD:8:GLN:CD	2.28	0.41
46:SD:83:GLN:O	46:TD:281:TYR:OH	2.22	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SD:116:VAL:HA	46:SD:119:VAL:HG12	2.03	0.41
46:SD:164:MET:HA	46:SD:164:MET:HE3	2.02	0.41
46:SD:325:GLU:HA	46:SD:328:GLU:CD	2.46	0.41
46:SD:345:ILE:HG23	46:SD:345:ILE:O	2.21	0.41
45:SE:91:GLN:HG3	45:SE:121:ARG:HH21	1.84	0.41
46:SF:2:ARG:NH2	45:SG:72:PRO:HD2	2.36	0.41
46:SF:16:ILE:HD12	46:SF:229:VAL:HG11	2.03	0.41
46:SF:321:MET:N	46:SF:321:MET:SD	2.93	0.41
45:SG:4:VAL:HG12	45:SG:133:GLN:HB2	2.03	0.41
45:SG:174:SER:OG	45:SG:207:GLU:HB2	2.21	0.41
45:SG:254:GLU:HG3	45:SG:254:GLU:O	2.21	0.41
45:SG:262:TYR:OH	46:SH:391:ARG:O	2.35	0.41
45:SG:419:SER:O	45:SG:423:GLU:HG2	2.20	0.41
46:SH:67:ASP:OD1	46:SH:68:LEU:N	2.54	0.41
46:SH:135:ILE:HB	46:SH:166:THR:HG22	2.02	0.41
45:SI:171:ILE:HG13	45:SI:204:LEU:HB2	2.03	0.41
46:SJ:11:GLN:NE2	49:SJ:501:GDP:O1A	2.54	0.41
46:SL:130:LEU:HD21	46:SL:133:PHE:CZ	2.56	0.41
45:SM:88:HIS:HB3	45:SM:91:GLN:HG2	2.01	0.41
45:SM:302:MET:HE2	45:SM:302:MET:HB3	1.88	0.41
46:SN:267:MET:HB2	46:SN:299:MET:CE	2.50	0.41
46:SN:276:ARG:HD3	46:SN:276:ARG:HA	1.89	0.41
46:SN:294:PHE:CE1	46:SN:333:VAL:HG11	2.56	0.41
45:TA:141:VAL:HG11	45:TA:172:TYR:HA	2.03	0.41
46:TB:3:GLU:CG	46:TB:49:VAL:HA	2.49	0.41
46:TB:87:PRO:HA	46:TB:90:PHE:CD2	2.54	0.41
46:TB:326:VAL:O	46:TB:330:MET:HG2	2.21	0.41
45:TC:1:MET:HE2	45:TC:130:THR:HG23	2.01	0.41
46:TD:322:SER:H	45:TE:221:ARG:CZ	2.33	0.41
45:TE:87:PHE:O	45:UE:283:HIS:HE1	2.04	0.41
45:TE:402:ARG:NH1	45:TE:405:VAL:HB	2.36	0.41
46:TF:6:HIS:O	46:TF:63:ALA:HA	2.20	0.41
45:TG:10:GLY:O	45:TG:14:ILE:HG12	2.20	0.41
45:TG:21:TRP:CZ2	45:TG:65:ALA:HB2	2.55	0.41
46:TH:109:GLY:O	46:TH:113:ILE:HG23	2.21	0.41
45:TI:305:CYS:SG	45:TI:306:ASP:N	2.93	0.41
46:TJ:192:LEU:HD21	46:TJ:199:CYS:HB2	2.01	0.41
45:TK:194:LEU:O	45:TK:198:THR:HG22	2.21	0.41
46:TL:102:ALA:O	46:TL:106:TYR:HB2	2.21	0.41
46:TN:68:LEU:HD12	46:TN:93:GLY:HA3	2.03	0.41
46:TN:207:LEU:HD13	46:TN:225:LEU:HB3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UA:208:ALA:O	45:UA:212:ILE:HG12	2.21	0.41
46:UB:121:ARG:O	46:UB:125:GLU:OE1	2.39	0.41
46:UB:129:CYS:SG	45:UC:96:LYS:HE3	2.61	0.41
46:UB:203:ASP:HB3	46:UB:205:GLU:CD	2.46	0.41
46:UB:325:GLU:HA	46:UB:328:GLU:CD	2.45	0.41
45:UC:297:GLU:HG2	45:UC:298:PRO:HD2	2.03	0.41
45:UC:429:GLU:O	45:UC:433:GLU:HG2	2.20	0.41
46:UD:7:ILE:HG23	46:UD:135:ILE:HG12	2.03	0.41
46:UD:421:GLU:HA	46:UD:424:GLN:HB3	2.03	0.41
45:UE:96:LYS:HD3	45:UE:96:LYS:HA	1.80	0.41
45:UE:252:ILE:HA	45:UE:255:PHE:CD1	2.56	0.41
46:UF:1:MET:HE3	46:UF:2:ARG:H	1.86	0.41
46:UF:61:PRO:CD	46:UF:84:LEU:HB3	2.51	0.41
46:UF:180:VAL:HG23	46:UF:183:TYR:HD2	1.86	0.41
46:UF:294:PHE:CE2	46:UF:333:VAL:HG11	2.56	0.41
46:UF:297:LYS:NZ	46:UF:306:ARG:HH22	2.19	0.41
45:UG:326:LYS:HE3	45:UG:326:LYS:HB3	1.89	0.41
46:UH:120:VAL:HA	46:UH:123:GLU:CD	2.45	0.41
46:UH:297:LYS:H	46:UH:297:LYS:HD2	1.85	0.41
45:UI:71:GLU:HA	45:UI:72:PRO:HD3	1.89	0.41
45:UI:196:GLU:H	45:UI:196:GLU:CD	2.28	0.41
45:UI:200:VAL:HG13	45:UI:268:MET:CE	2.51	0.41
45:UI:205:ASP:OD1	45:UI:303:ALA:HA	2.20	0.41
46:UJ:44:LEU:HA	46:UJ:47:ILE:HG23	2.03	0.41
46:UJ:143:THR:HB	49:UJ:501:GDP:PB	2.60	0.41
46:UJ:256:ASN:HB3	46:UJ:350:LYS:NZ	2.36	0.41
46:UJ:258:ILE:HG23	45:UK:407:TRP:HE1	1.85	0.41
46:UJ:345:ILE:O	46:UJ:345:ILE:HG23	2.21	0.41
45:UK:95:GLY:C	45:UK:96:LYS:HD3	2.46	0.41
45:UK:238:LEU:HD12	45:UK:239:THR:HG23	2.02	0.41
46:UL:7:ILE:HD13	46:UL:151:LEU:HD21	2.03	0.41
46:VB:313:ALA:HB1	46:VB:367:PHE:CE1	2.50	0.41
45:VC:151:SER:O	45:VC:154:LEU:HG	2.21	0.41
45:VE:26:LEU:HD22	45:VE:364:PRO:HD2	2.03	0.41
45:VE:31:GLN:NE2	45:VE:37:PRO:HG3	2.26	0.41
45:VE:221:ARG:NH1	46:VF:325:GLU:HG2	2.36	0.41
46:VF:100:ASN:HB3	46:VF:103:LYS:HG3	2.02	0.41
46:VF:101:TRP:HD1	46:VF:145:SER:OG	2.04	0.41
46:VF:108:GLU:O	46:VF:111:GLU:HG3	2.20	0.41
46:VF:257:LEU:HB3	46:VF:266:PHE:CZ	2.56	0.41
46:VF:396:HIS:HA	46:VF:399:THR:OG1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VG:175:PRO:O	45:VG:394:LYS:NZ	2.46	0.41
45:VG:250:VAL:HG13	45:VG:254:GLU:HB2	2.02	0.41
45:VI:271:SER:HB2	45:VI:377:MET:CG	2.50	0.41
46:VJ:228:LEU:HB3	46:VJ:300:MET:HE1	2.03	0.41
46:VJ:233:MET:O	46:VJ:236:VAL:HG12	2.20	0.41
45:VK:96:LYS:HZ1	46:VL:129:CYS:HB2	1.85	0.41
45:VK:265:ILE:HG22	45:VK:432:TYR:CE1	2.53	0.41
45:VK:407:TRP:CG	46:VL:255:VAL:HG23	2.55	0.41
46:VL:204:ASN:ND2	49:VL:501:GDP:O2'	2.53	0.41
46:VN:319:GLY:O	46:VN:355:ASP:HA	2.21	0.41
45:WA:17:GLY:HA2	45:WA:20:CYS:SG	2.61	0.41
45:WA:172:TYR:OH	45:WA:191:THR:OG1	2.25	0.41
45:WA:254:GLU:HA	45:WA:257:THR:OG1	2.21	0.41
46:WB:167:PHE:CZ	46:WB:233:MET:HE1	2.56	0.41
46:WB:292:GLN:HA	46:WB:295:ASP:OD2	2.21	0.41
46:WB:318:ARG:HB2	46:WB:364:ALA:HB3	2.03	0.41
45:WC:50:ASN:OD1	45:WC:50:ASN:C	2.63	0.41
45:WC:72:PRO:O	45:WC:76:ASP:HB2	2.21	0.41
45:WC:212:ILE:HD13	45:WC:215:ARG:NH1	2.34	0.41
45:WC:215:ARG:NH2	45:WC:300:ASN:OD1	2.54	0.41
46:WD:81:PHE:HD2	46:WD:84:LEU:HD11	1.86	0.41
46:WD:343:GLU:OE2	46:WD:430:ALA:N	2.51	0.41
45:WE:104:ALA:HB2	45:WE:413:MET:SD	2.61	0.41
45:WE:118:CYS:SG	45:WE:153:LEU:HD11	2.60	0.41
45:WE:256:GLN:CD	46:WH:397:TRP:CE2	2.99	0.41
46:WF:175:VAL:CG2	46:WF:205:GLU:HB2	2.51	0.41
46:WF:380:ARG:HA	46:WF:383:GLU:HG3	2.03	0.41
46:WH:258:ILE:HG13	46:WH:258:ILE:O	2.21	0.41
46:WH:391:ARG:HD2	46:WH:391:ARG:HA	1.80	0.41
46:WH:398:TYR:O	46:WH:403:MET:HB2	2.21	0.41
46:WH:409:THR:O	46:WH:412:GLU:HG3	2.21	0.41
45:WI:172:TYR:CD1	45:WI:173:PRO:HD2	2.53	0.41
45:WI:289:ALA:O	45:WI:292:THR:HG22	2.21	0.41
46:WJ:77:ARG:HH12	46:WJ:83:GLN:CD	2.26	0.41
46:WJ:260:PHE:CE2	46:WJ:425:TYR:HE2	2.39	0.41
46:WJ:414:ASN:C	46:WJ:414:ASN:HD22	2.28	0.41
45:WK:21:TRP:CE3	45:WK:24:PHE:HD2	2.39	0.41
45:WK:41:THR:CG2	45:WK:42:ILE:H	2.30	0.41
45:WK:214:ARG:HH12	45:WK:220:GLU:HG3	1.85	0.41
46:WL:66:MET:HE1	46:WL:147:MET:SD	2.60	0.41
46:WL:66:MET:HA	46:WL:91:VAL:HG23	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:WL:229:VAL:O	46:WL:233:MET:HG2	2.19	0.41
45:WM:51:THR:HG21	45:WM:243:ARG:HD3	2.03	0.41
45:WM:205:ASP:OD1	45:WM:303:ALA:HA	2.21	0.41
46:WN:16:ILE:HD13	46:WN:226:ASN:ND2	2.35	0.41
45:CE:239:THR:HG23	45:CE:243:ARG:HE	1.84	0.41
45:CE:335:ILE:HD11	45:CE:341:ILE:HG13	2.02	0.41
45:DC:145:THR:HG22	47:DC:501:GTP:PG	2.60	0.41
45:DC:311:LYS:HZ3	45:DC:344:VAL:HA	1.86	0.41
5:0E:118:ARG:HH21	5:0E:156:ASP:HB3	1.85	0.41
6:0F:143:TYR:H	6:0F:147:ARG:NH2	2.19	0.41
7:0G:110:ASN:HD22	7:0G:132:ARG:NE	2.18	0.41
8:0H:397:LEU:HA	8:0H:400:GLU:HG3	2.03	0.41
9:0N:150:LEU:HB3	9:0N:173:ILE:CG2	2.51	0.41
12:0T:35:LEU:HD13	12:0T:40:GLN:HA	2.03	0.41
12:0T:146:MET:CE	46:MB:402:GLY:HA2	2.50	0.41
13:0U:54:HIS:CE1	13:0U:85:ILE:HD13	2.55	0.41
13:0U:572:THR:OG1	13:0U:573:GLY:N	2.54	0.41
16:1B:102:LYS:HE3	16:1B:102:LYS:HB2	1.90	0.41
5:1E:162:LYS:HA	5:1E:165:ILE:HG12	2.03	0.41
8:1H:271:ARG:HD2	8:1H:271:ARG:O	2.21	0.41
8:1H:380:GLU:HA	8:1H:383:LYS:CE	2.51	0.41
20:1K:212:ARG:NH2	45:GA:370:LYS:O	2.53	0.41
21:1L:277:ALA:C	21:1L:281:MET:HE3	2.46	0.41
21:1L:653:TRP:O	21:1L:655:ARG:NH1	2.54	0.41
21:1L:858:LEU:CD1	21:1L:861:ARG:HE	2.33	0.41
23:1O:128:ARG:O	23:1O:131:GLU:HG3	2.21	0.41
24:1P:183:LYS:O	24:1P:187:GLU:OE1	2.39	0.41
24:1P:199:LYS:O	24:1P:202:GLU:HG3	2.21	0.41
10:1Q:83:LEU:HD11	10:1Q:161:ARG:HH12	1.86	0.41
11:1S:204:ILE:O	11:1S:207:VAL:HG22	2.21	0.41
12:1T:147:PHE:CE1	46:MF:106:TYR:HB3	2.56	0.41
12:1T:256:ASN:OD1	12:1T:257:GLN:N	2.54	0.41
13:1U:319:HIS:CE1	13:1U:323:ILE:HG13	2.55	0.41
14:1V:253:LYS:O	14:1V:256:GLU:HG3	2.21	0.41
26:1W:170:THR:O	26:1W:171:ASN:HB2	2.18	0.41
27:2C:117:GLU:HG2	27:2C:119:LYS:H	1.86	0.41
27:2C:266:GLN:HB2	27:2C:269:TYR:CD1	2.56	0.41
4:2D:177:THR:HG22	46:EJ:48:ASN:OD1	2.20	0.41
5:2E:138:THR:HG22	5:2E:141:GLN:NE2	2.36	0.41
28:2F:17:LYS:O	28:2F:21:GLU:OE1	2.39	0.41
28:2F:61:THR:HG21	46:GF:74:ASP:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:2I:55:LYS:NZ	46:FH:114:ASP:OD2	2.54	0.41
31:2I:86:ASP:OD2	45:GE:214:ARG:HG2	2.20	0.41
20:2K:264:LYS:HB3	20:2K:264:LYS:HE3	1.82	0.41
20:2K:391:GLN:HA	20:2K:394:LYS:NZ	2.35	0.41
21:2L:624:GLU:HB2	21:2L:625:ARG:HH12	1.86	0.41
21:2L:868:LYS:HE2	21:2L:869:HIS:CD2	2.56	0.41
22:2M:5:ARG:HG2	22:2M:28:PHE:CE1	2.56	0.41
24:2P:383:GLU:HA	24:2P:386:GLN:CD	2.45	0.41
24:2P:418:GLN:O	24:2P:421:GLU:HG3	2.21	0.41
12:2T:62:VAL:HG23	12:2T:146:MET:HB2	2.02	0.41
13:2U:8:GLN:N	13:2U:8:GLN:OE1	2.53	0.41
15:2X:99:VAL:O	15:2X:102:GLU:HG2	2.20	0.41
16:3B:207:LEU:HD21	16:3B:274:LYS:HG3	2.02	0.41
10:3Q:10:PHE:CD1	10:3Q:168:SER:HA	2.56	0.41
10:3Q:79:ILE:O	10:3Q:80:ILE:HD13	2.21	0.41
13:3U:418:GLN:O	13:3U:434:ILE:HG22	2.21	0.41
27:4C:34:ASN:O	27:4C:37:ARG:HG2	2.20	0.41
27:4C:107:VAL:HG11	27:4C:171:VAL:HG23	2.02	0.41
34:4R:246:GLN:HE21	45:BE:59:GLY:N	2.19	0.41
35:4S:69:TYR:HA	35:4S:74:LEU:HD13	2.03	0.41
15:4X:2:LYS:HA	15:4X:2:LYS:HD2	1.90	0.41
37:5E:54:LYS:HE3	46:OB:227:HIS:CB	2.51	0.41
37:5G:61:LYS:N	46:OJ:276:ARG:HH22	2.17	0.41
10:5Q:135:ASN:O	10:5Q:137:SER:N	2.53	0.41
35:5S:178:ALA:O	35:5S:181:PRO:HD2	2.21	0.41
10:6Q:83:LEU:H	10:6Q:83:LEU:HD23	1.85	0.41
34:6R:336:CYS:HA	34:6R:349:ILE:HB	2.03	0.41
34:7R:491:GLN:HB3	34:7R:494:GLU:HG3	2.03	0.41
46:AB:20:PHE:CE1	46:AB:233:MET:HB3	2.56	0.41
46:AB:229:VAL:HG12	46:AB:233:MET:CE	2.50	0.41
45:AE:209:ILE:H	45:AE:209:ILE:HG13	1.73	0.41
45:AE:326:LYS:HG3	45:AE:327:ASP:N	2.35	0.41
45:AE:396:ASP:HB3	45:AE:422:ARG:NH1	2.35	0.41
46:AF:131:GLN:O	46:AF:163:ILE:HG12	2.21	0.41
45:AG:137:VAL:HG13	45:AG:168:GLY:HA2	2.03	0.41
45:AK:19:ALA:O	45:AK:22:GLU:HG2	2.21	0.41
45:AK:56:THR:HG23	45:AK:58:ALA:H	1.86	0.41
45:BE:17:GLY:HA2	45:BE:20:CYS:SG	2.61	0.41
45:BE:141:VAL:HG22	45:BE:187:SER:HA	2.03	0.41
45:BE:387:VAL:HG12	45:BE:390:ARG:NH1	2.35	0.41
45:BG:241:SER:HA	45:BG:356:ASN:HD22	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BH:66:MET:CE	46:BH:147:MET:HE3	2.51	0.41
46:BL:116:VAL:HA	46:BL:119:VAL:HG12	2.02	0.41
45:BM:336:LYS:HD3	45:BM:351:PHE:HE1	1.86	0.41
45:BM:427:ALA:O	45:BM:430:LYS:HG3	2.21	0.41
46:BN:214:THR:HG23	46:BN:297:LYS:HE2	2.03	0.41
46:BN:385:PHE:CE2	46:BN:412:GLU:HB3	2.56	0.41
45:CA:276:ILE:HD11	45:CA:280:LYS:HB3	2.03	0.41
45:CC:250:VAL:HG13	45:CC:254:GLU:HB2	2.02	0.41
46:CD:66:MET:SD	46:CD:116:VAL:HG21	2.61	0.41
46:CD:116:VAL:HA	46:CD:119:VAL:HG12	2.03	0.41
46:CF:8:GLN:O	46:CF:66:MET:HG3	2.21	0.41
46:CH:148:GLY:O	46:CH:152:ILE:HG13	2.21	0.41
46:CH:344:TRP:HB3	46:CH:430:ALA:HB2	2.03	0.41
46:CJ:285:THR:HB	46:CJ:287:PRO:HD2	2.03	0.41
45:CM:188:ILE:HG13	45:CM:425:LEU:HD11	2.02	0.41
46:CN:21:TRP:CZ2	46:CN:63:ALA:HB2	2.56	0.41
46:CN:114:ASP:OD1	46:CN:115:SER:N	2.54	0.41
46:CN:399:THR:HA	46:CN:403:MET:O	2.20	0.41
46:DB:77:ARG:NH1	46:DB:82:GLY:O	2.54	0.41
46:DB:218:THR:HG22	46:DB:219:THR:HG23	2.02	0.41
46:DB:258:ILE:O	45:DC:407:TRP:NE1	2.47	0.41
46:DD:67:ASP:O	46:DD:92:PHE:HA	2.21	0.41
45:DE:377:MET:SD	45:DE:379:SER:HB2	2.61	0.41
45:DG:118:CYS:SG	45:DG:153:LEU:HD11	2.61	0.41
46:DH:105:HIS:CD2	46:DH:150:LEU:HB2	2.56	0.41
46:DH:418:LEU:HD12	46:DH:421:GLU:OE2	2.21	0.41
45:DI:141:VAL:HG11	45:DI:172:TYR:HA	2.03	0.41
46:DL:73:MET:HB2	46:DL:90:PHE:CE1	2.56	0.41
46:DN:97:ALA:HB3	46:DN:143:THR:HB	2.02	0.41
45:EC:184:PRO:O	45:EC:188:ILE:HG12	2.21	0.41
45:EC:208:ALA:HB3	45:EC:302:MET:C	2.46	0.41
45:EC:429:GLU:O	45:EC:433:GLU:HG2	2.21	0.41
46:ED:20:PHE:HE1	46:ED:234:SER:HB3	1.85	0.41
46:ED:289:LEU:O	46:ED:293:MET:HB2	2.21	0.41
45:EG:315:CYS:SG	45:EG:377:MET:HE2	2.60	0.41
46:EH:45:GLU:CD	46:EH:45:GLU:H	2.29	0.41
45:EI:71:GLU:HA	45:EI:72:PRO:HD3	1.80	0.41
46:EJ:282:ARG:HA	46:EJ:282:ARG:HD2	1.81	0.41
45:EK:419:SER:O	45:EK:422:ARG:N	2.52	0.41
45:EM:434:GLU:O	45:EM:437:ILE:HG12	2.21	0.41
46:EN:385:PHE:HZ	46:EN:408:PHE:HD1	1.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FB:221:THR:HG23	46:FB:224:ASP:H	1.85	0.41
45:FC:384:ILE:O	45:FC:387:VAL:HG22	2.20	0.41
45:FC:398:MET:CE	46:FD:346:PRO:HD2	2.51	0.41
46:FD:417:ASP:O	46:FD:421:GLU:HG2	2.21	0.41
45:FE:326:LYS:HD2	46:FH:220:PRO:HD2	2.04	0.41
46:FF:294:PHE:HE1	46:FF:367:PHE:CE1	2.39	0.41
46:FF:377:MET:CE	46:FF:380:ARG:HH12	2.34	0.41
46:FH:68:LEU:HB3	46:FH:96:GLY:HA2	2.03	0.41
46:FH:99:ASN:HA	46:FH:142:GLY:H	1.86	0.41
46:FJ:336:LYS:HD2	46:FJ:337:ASN:OD1	2.21	0.41
46:FL:19:LYS:O	46:FL:23:VAL:HG23	2.21	0.41
46:FL:318:ARG:HH11	46:FL:358:PRO:HG3	1.86	0.41
45:FM:269:LEU:HD23	45:FM:379:SER:O	2.22	0.41
46:FN:149:THR:HA	46:FN:152:ILE:HD12	2.02	0.41
45:GA:176:GLN:O	46:GB:347:ASN:ND2	2.49	0.41
46:GB:65:LEU:HD22	46:GB:90:PHE:CE1	2.56	0.41
46:GD:41:ASP:O	46:GD:45:GLU:HG2	2.21	0.41
46:GD:258:ILE:HG13	46:GD:266:PHE:HZ	1.85	0.41
45:GE:406:HIS:CE1	45:GE:407:TRP:CD1	3.09	0.41
46:GF:233:MET:O	46:GF:236:VAL:HG12	2.21	0.41
45:GG:68:LEU:HD11	45:GG:118:CYS:HB2	2.03	0.41
45:GG:208:ALA:HB1	45:GG:301:MET:O	2.21	0.41
46:GH:342:VAL:HG13	46:GH:345:ILE:HG22	2.03	0.41
45:GM:261:PRO:HG2	45:GM:313:MET:HE2	2.03	0.41
46:GN:69:GLU:HA	46:GN:70:PRO:HD3	1.88	0.41
46:GN:274:THR:HB	46:GN:282:ARG:NH1	2.36	0.41
45:HA:289:ALA:O	45:HA:292:THR:HG22	2.21	0.41
45:HA:301:MET:HE2	45:HA:301:MET:HA	2.03	0.41
46:HB:3:GLU:N	46:HB:131:GLN:HE22	2.19	0.41
46:HB:237:THR:HA	46:HB:240:LEU:HD13	2.02	0.41
45:HC:31:GLN:HG3	45:HC:37:PRO:HD3	2.03	0.41
45:HG:156:ARG:HD3	45:HG:156:ARG:HA	1.90	0.41
46:HH:68:LEU:HD23	46:HH:143:THR:OG1	2.21	0.41
46:HH:372:THR:HA	46:HH:422:TYR:HE1	1.86	0.41
46:HJ:159:TYR:HB3	46:HJ:162:ARG:HG2	2.02	0.41
45:HK:124:LYS:HB2	45:HK:124:LYS:HE2	1.79	0.41
45:HK:302:MET:HE3	45:HK:302:MET:HB2	1.96	0.41
45:HK:319:TYR:CB	45:HK:323:VAL:HG21	2.51	0.41
46:HL:135:ILE:HD12	46:HL:152:ILE:HD11	2.02	0.41
45:IA:258:ASN:CB	45:IA:352:LYS:HD2	2.50	0.41
45:IA:420:GLU:HA	45:IA:423:GLU:OE2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:IB:66:MET:HE1	46:IB:147:MET:CG	2.51	0.41
46:IB:391:ARG:HA	46:IB:391:ARG:HD2	1.78	0.41
46:ID:46:ARG:HD3	46:ID:46:ARG:HA	1.87	0.41
45:IE:32:PRO:HB3	45:IE:83:TYR:CE1	2.55	0.41
46:IF:233:MET:O	46:IF:236:VAL:HG12	2.21	0.41
46:IF:395:LEU:O	46:IF:399:THR:HG23	2.21	0.41
45:IG:393:HIS:O	45:IG:397:LEU:HD23	2.20	0.41
45:II:55:GLU:OE1	45:II:61:HIS:NE2	2.53	0.41
45:IK:336:LYS:HE3	45:IK:336:LYS:HB2	1.87	0.41
46:IL:31:ASP:OD2	46:IL:37:HIS:ND1	2.54	0.41
45:IM:56:THR:HG22	45:IM:60:LYS:O	2.21	0.41
45:IM:60:LYS:HE2	46:JN:281:TYR:CE1	2.56	0.41
45:IM:98:ASP:OD1	45:IM:99:ALA:N	2.54	0.41
45:IM:112:LYS:HD3	45:IM:112:LYS:N	2.36	0.41
45:IM:203:MET:HE3	45:IM:267:PHE:HB3	2.03	0.41
45:IM:205:ASP:OD1	45:IM:205:ASP:N	2.53	0.41
45:IM:275:ILE:O	45:IM:275:ILE:HG13	2.20	0.41
46:IN:386:THR:O	46:IN:390:ARG:HG3	2.21	0.41
45:JA:67:PHE:HE2	45:JA:87:PHE:CE2	2.39	0.41
45:JA:100:ALA:O	46:JB:255:VAL:HG21	2.20	0.41
45:JE:287:SER:H	45:JE:290:GLU:CD	2.25	0.41
46:JF:27:GLU:OE1	46:JF:359:LYS:N	2.54	0.41
46:JF:113:ILE:HD13	46:JF:150:LEU:HD22	2.03	0.41
45:JG:3:GLU:HB2	45:JG:129:CYS:SG	2.61	0.41
45:JI:407:TRP:CE3	46:JJ:255:VAL:HG22	2.56	0.41
46:JJ:134:GLN:HA	46:JJ:165:GLU:O	2.20	0.41
45:JK:253:THR:C	45:JK:256:GLN:HE21	2.25	0.41
45:KA:121:ARG:HD2	45:KA:121:ARG:HA	1.74	0.41
45:KA:296:PHE:HE2	45:KA:377:MET:SD	2.44	0.41
46:KB:86:ARG:HB2	46:KB:89:ASN:CG	2.46	0.41
46:KB:87:PRO:HA	46:KB:90:PHE:HD2	1.85	0.41
46:KD:141:GLY:O	46:KD:145:SER:HB3	2.21	0.41
46:KD:178:THR:OG1	46:KD:181:GLU:HB3	2.21	0.41
45:KE:140:SER:HA	45:KE:171:ILE:HB	2.03	0.41
46:KF:289:LEU:HD13	46:KF:365:VAL:HG23	2.03	0.41
45:KG:51:THR:HG23	45:KG:52:PHE:HD1	1.86	0.41
46:KH:268:ILE:HG22	46:KH:368:VAL:HG22	2.03	0.41
46:KJ:213:ARG:HD2	46:KJ:297:LYS:HD3	2.02	0.41
45:KM:308:ARG:HG3	45:NM:282:TYR:CZ	2.56	0.41
45:KM:407:TRP:CZ2	46:KN:258:ILE:HD11	2.56	0.41
46:KN:173:PRO:HG3	46:KN:384:GLN:HE22	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LA:155:GLU:HG2	45:LA:197:HIS:CD2	2.55	0.41
46:LD:16:ILE:HD13	46:LD:226:ASN:OD1	2.21	0.41
46:LH:164:MET:O	46:LH:197:ASP:HB2	2.21	0.41
45:LI:286:LEU:HD12	45:LI:371:VAL:HG21	2.02	0.41
46:LJ:8:GLN:NE2	46:LJ:17:GLY:HA3	2.36	0.41
46:LJ:164:MET:O	46:LJ:197:ASP:HB2	2.21	0.41
45:LK:123:ARG:HA	45:LK:123:ARG:HD3	1.88	0.41
45:LK:179:THR:O	46:LL:350:LYS:HA	2.21	0.41
45:MA:88:HIS:HB3	45:MA:91:GLN:HG2	2.03	0.41
46:MB:9:GLY:HA2	46:MB:66:MET:O	2.21	0.41
45:MC:109:THR:HB	45:MC:110:ILE:HD12	2.03	0.41
46:MD:36:TYR:OH	46:MD:44:LEU:HD11	2.20	0.41
46:MF:391:ARG:HA	46:MF:391:ARG:HD2	1.78	0.41
45:MG:222:PRO:O	46:MH:322:SER:HB2	2.21	0.41
45:MG:301:MET:HA	45:MG:301:MET:HE2	2.03	0.41
45:MI:265:ILE:HG22	45:MI:380:ASN:HD21	1.86	0.41
46:MJ:65:LEU:HB3	46:MJ:73:MET:HE3	2.03	0.41
45:MM:208:ALA:O	45:MM:212:ILE:HG12	2.20	0.41
45:NA:176:GLN:HG2	45:NA:177:VAL:HG13	2.03	0.41
45:NA:288:VAL:O	45:NA:291:ILE:HG22	2.21	0.41
45:NA:387:VAL:HA	45:NA:390:ARG:HG2	2.02	0.41
46:NB:3:GLU:HB2	46:NB:62:ARG:NH2	2.36	0.41
46:NB:207:LEU:O	46:NB:210:ILE:HG22	2.20	0.41
46:NB:381:VAL:HA	46:NB:384:GLN:CD	2.46	0.41
46:ND:16:ILE:HD13	46:ND:226:ASN:OD1	2.21	0.41
46:ND:21:TRP:CD1	46:ND:85:PHE:HZ	2.39	0.41
46:ND:222:TYR:O	46:ND:226:ASN:ND2	2.24	0.41
45:NE:208:ALA:O	45:NE:212:ILE:HG12	2.20	0.41
46:NH:20:PHE:O	46:NH:24:ILE:HG12	2.20	0.41
46:NH:31:ASP:HB2	46:NH:32:PRO:HD2	2.03	0.41
46:NH:31:ASP:OD1	46:NH:35:THR:HB	2.22	0.41
46:NH:139:LEU:HD13	46:NH:168:SER:HB3	2.03	0.41
46:NJ:91:VAL:HG21	46:NJ:116:VAL:HB	2.02	0.41
45:NK:319:TYR:HB3	45:NK:323:VAL:HG21	2.02	0.41
46:NL:117:LEU:HA	46:NL:120:VAL:HG12	2.03	0.41
45:NM:109:THR:OG1	45:NM:110:ILE:HG13	2.19	0.41
45:NM:174:SER:HB3	45:NM:207:GLU:CD	2.46	0.41
45:OA:95:GLY:C	45:OA:96:LYS:HD3	2.46	0.41
45:OA:294:SER:HA	45:OA:297:GLU:HG3	2.03	0.41
46:OB:113:ILE:HG12	46:OB:117:LEU:CD2	2.46	0.41
46:OB:361:LEU:HD23	46:OB:361:LEU:HA	1.92	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OC:97:GLU:CD	45:OC:105:ARG:HH12	2.27	0.41
46:OF:226:ASN:ND2	49:OF:502:GDP:HN1	2.15	0.41
46:OF:276:ARG:HD3	46:OF:279:GLN:NE2	2.36	0.41
46:OH:32:PRO:HA	46:OH:84:LEU:HD11	2.02	0.41
45:OI:6:SER:O	45:OI:65:ALA:HA	2.21	0.41
45:OK:71:GLU:HB2	45:OK:98:ASP:HB2	2.03	0.41
45:PA:76:ASP:OD1	45:PA:77:GLU:N	2.53	0.41
45:PA:425:LEU:HD23	45:PA:425:LEU:HA	1.92	0.41
46:PB:310:TYR:CD2	46:PB:341:PHE:HE1	2.38	0.41
46:PD:48:ASN:O	46:PD:62:ARG:NH2	2.54	0.41
45:PG:352:LYS:NZ	46:PJ:178:THR:HG23	2.36	0.41
45:PK:306:ASP:HB3	45:PK:309:HIS:CD2	2.56	0.41
45:PK:416:GLY:O	45:PK:419:SER:OG	2.33	0.41
46:PL:399:THR:HA	46:PL:403:MET:O	2.20	0.41
45:PM:319:TYR:CZ	45:PM:328:VAL:HG22	2.55	0.41
46:QB:65:LEU:HD12	46:QB:90:PHE:CE2	2.56	0.41
46:QD:392:LYS:HA	46:QD:395:LEU:HD13	2.03	0.41
46:QF:101:TRP:HB2	46:QF:184:ASN:HB3	2.02	0.41
46:QF:287:PRO:HA	46:QF:329:GLN:NE2	2.32	0.41
45:QG:17:GLY:HA2	45:QG:20:CYS:SG	2.61	0.41
45:QG:231:ILE:O	45:QG:235:ILE:HG12	2.22	0.41
46:QH:69:GLU:HA	46:QH:70:PRO:HD3	1.86	0.41
46:QH:294:PHE:CD1	46:QH:333:VAL:HG21	2.55	0.41
46:QJ:331:LEU:HD11	45:QK:176:GLN:O	2.21	0.41
45:QK:182:VAL:HG22	45:QK:182:VAL:O	2.21	0.41
45:QM:174:SER:HB2	45:QM:177:VAL:HB	2.03	0.41
46:QN:201:VAL:HG22	46:QN:266:PHE:O	2.21	0.41
45:RA:21:TRP:CE3	45:RA:21:TRP:HA	2.56	0.41
46:RB:321:MET:HE2	46:RB:363:MET:SD	2.61	0.41
46:RB:360:GLY:C	46:RB:361:LEU:HD12	2.46	0.41
45:RC:30:ILE:HA	45:RC:36:MET:HE1	2.03	0.41
46:RD:280:GLN:HG2	46:RD:281:TYR:HD2	1.86	0.41
46:RF:9:GLY:CA	46:RF:66:MET:HB3	2.51	0.41
46:RF:259:PRO:HG3	45:RG:404:PHE:CZ	2.56	0.41
46:RF:324:LYS:HG3	46:RF:325:GLU:N	2.36	0.41
45:RG:30:ILE:HD11	45:RG:34:GLY:C	2.46	0.41
45:RI:345:ASP:OD2	45:RI:346:TRP:N	2.54	0.41
46:RJ:19:LYS:NZ	46:RJ:227:HIS:HB2	2.35	0.41
46:RL:16:ILE:HD13	46:RL:226:ASN:OD1	2.21	0.41
45:SC:156:ARG:HG3	45:SC:160:ASP:OD2	2.21	0.41
46:SD:238:CYS:SG	46:SD:318:ARG:HD2	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SD:324:LYS:O	46:SD:328:GLU:OE1	2.39	0.41
45:SE:287:SER:HB3	45:SE:290:GLU:HG2	2.03	0.41
46:SF:187:LEU:HD11	46:SF:408:PHE:HE1	1.86	0.41
45:SG:150:GLY:O	45:SG:154:LEU:HD23	2.20	0.41
46:SH:97:ALA:HB3	46:SH:143:THR:HB	2.03	0.41
45:SI:31:GLN:NE2	45:SI:37:PRO:HB3	2.36	0.41
45:SI:326:LYS:NZ	46:SJ:212:PHE:HB2	2.35	0.41
46:SJ:102:ALA:HB2	46:SJ:398:TYR:HD1	1.86	0.41
46:SJ:321:MET:N	46:SJ:321:MET:SD	2.93	0.41
46:SL:164:MET:HE3	46:SL:164:MET:HA	2.02	0.41
46:SL:189:VAL:O	46:SL:193:VAL:HG13	2.21	0.41
46:SL:342:VAL:HG22	46:SL:344:TRP:CD1	2.56	0.41
45:SM:141:VAL:HG22	45:SM:187:SER:HA	2.01	0.41
46:TB:20:PHE:HA	46:TB:230:SER:HB2	2.03	0.41
46:TB:256:ASN:HB2	46:TB:350:LYS:NZ	2.36	0.41
46:TD:210:ILE:O	46:TD:214:THR:OG1	2.18	0.41
46:TF:384:GLN:O	46:TF:388:MET:HG2	2.21	0.41
46:TH:175:VAL:HG22	46:TH:205:GLU:HB2	2.02	0.41
45:TI:88:HIS:ND1	45:TI:91:GLN:HG3	2.35	0.41
45:TI:135:PHE:HB2	45:TI:166:LYS:HG3	2.03	0.41
45:TI:276:ILE:HD11	45:TI:280:LYS:HG3	2.03	0.41
46:TJ:210:ILE:O	46:TJ:214:THR:OG1	2.32	0.41
46:TL:257:LEU:HD11	46:TL:314:SER:HB3	2.02	0.41
46:TL:258:ILE:HG13	46:TL:266:PHE:HZ	1.86	0.41
46:TL:328:GLU:OE1	46:TL:329:GLN:HG2	2.20	0.41
45:TM:21:TRP:CZ2	45:TM:65:ALA:HB2	2.55	0.41
45:TM:145:THR:HG22	47:TM:501:GTP:PG	2.61	0.41
45:TM:188:ILE:HD11	45:TM:391:LEU:HB3	2.03	0.41
45:TM:434:GLU:O	45:TM:437:ILE:HG12	2.20	0.41
45:UC:352:LYS:HZ3	46:UD:179:VAL:N	2.17	0.41
46:UD:324:LYS:HE3	45:UE:210:TYR:HD1	1.85	0.41
46:UF:55:THR:HG23	46:VF:283:ALA:HA	2.03	0.41
46:UH:4:ILE:HD11	46:UH:131:GLN:HB2	2.02	0.41
46:UH:164:MET:CE	46:UH:196:ALA:HA	2.51	0.41
45:VA:50:ASN:O	45:VA:64:ARG:NH1	2.54	0.41
45:VA:90:GLU:CG	45:WA:280:LYS:HZ3	2.29	0.41
45:VA:175:PRO:HG3	45:VA:390:ARG:NH1	2.36	0.41
45:VA:387:VAL:O	45:VA:391:LEU:HD23	2.21	0.41
45:VC:88:HIS:HB3	45:VC:91:GLN:HG2	2.02	0.41
45:VC:282:TYR:OH	45:VC:370:LYS:O	2.22	0.41
45:VE:36:MET:HB2	45:VE:61:HIS:CE1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VH:273:LEU:N	46:VH:292:GLN:HE22	2.06	0.41
46:VH:415:MET:HE2	46:VH:415:MET:HA	2.02	0.41
46:VJ:173:PRO:HD3	46:VJ:380:ARG:NH1	2.35	0.41
45:VK:316:SER:HA	45:VK:352:LYS:HB2	2.02	0.41
46:VL:201:VAL:HG23	46:VL:301:CYS:SG	2.61	0.41
46:VN:403:MET:HE2	46:VN:403:MET:HB2	1.90	0.41
45:WA:21:TRP:CZ2	45:WA:65:ALA:HB2	2.56	0.41
45:WA:349:THR:HG21	46:WD:181:GLU:OE2	2.21	0.41
46:WB:267:MET:CE	46:WB:301:CYS:HB2	2.49	0.41
46:WB:403:MET:N	46:WB:403:MET:HE2	2.36	0.41
45:WC:252:ILE:HA	45:WC:255:PHE:HD2	1.85	0.41
46:WD:271:ALA:HB3	46:WD:365:VAL:HB	2.02	0.41
45:WE:258:ASN:CG	45:WE:352:LYS:HE3	2.46	0.41
45:WG:167:LEU:HG	45:WG:200:VAL:HB	2.03	0.41
45:WG:298:PRO:HA	45:WG:301:MET:HE3	2.03	0.41
46:WH:396:HIS:CD2	46:WH:397:TRP:CD1	3.09	0.41
46:WJ:201:VAL:HG23	46:WJ:301:CYS:SG	2.61	0.41
45:WK:68:LEU:HD21	45:WK:118:CYS:CB	2.51	0.41
46:WL:63:ALA:O	46:WL:89:ASN:ND2	2.53	0.41
46:WL:108:GLU:O	46:WL:111:GLU:HG3	2.20	0.41
46:WL:149:THR:HA	46:WL:152:ILE:HD12	2.02	0.41
1:0A:34:LEU:HD13	46:MB:40:SER:HB3	2.02	0.40
3:0C:59:LYS:HA	3:0C:59:LYS:HE2	2.02	0.40
4:0D:36:TYR:HA	4:0D:62:THR:HG22	2.02	0.40
4:0D:108:PRO:HA	4:0D:109:PRO:HD2	1.93	0.40
6:0F:119:LYS:HA	6:0F:122:LEU:HD12	2.02	0.40
9:0N:249:LEU:O	9:0N:252:GLU:HB2	2.21	0.40
11:0S:226:ILE:HA	11:0S:229:ILE:HG12	2.03	0.40
12:0T:53:ARG:CZ	12:0T:191:PHE:HD1	2.33	0.40
13:0U:292:HIS:CD2	13:0U:304:TRP:CZ2	3.09	0.40
4:1D:55:GLY:O	4:1D:56:LYS:HE2	2.21	0.40
7:1G:132:ARG:HA	7:1G:132:ARG:HD2	1.95	0.40
8:1H:235:ILE:HD12	8:1H:235:ILE:HA	1.96	0.40
8:1H:348:ARG:HB3	8:1H:349:ARG:NH1	2.36	0.40
19:1J:217:GLU:HG3	19:1J:224:PRO:HG2	2.03	0.40
19:1J:397:GLU:OE2	19:1J:398:ILE:HG13	2.21	0.40
20:1K:47:CYS:O	20:1K:51:ARG:HG3	2.21	0.40
22:1M:120:ASN:OD1	22:1M:121:LEU:N	2.53	0.40
24:1P:243:GLU:CD	46:TF:362:LYS:HE2	2.46	0.40
24:1P:252:LEU:HD12	24:1P:253:GLU:N	2.36	0.40
10:1Q:72:LYS:NZ	11:1S:140:ARG:HG3	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:1Q:92:GLN:HG2	10:1Q:152:LEU:HB2	2.03	0.40
11:1S:133:GLU:HG3	11:1S:137:TYR:CE2	2.56	0.40
12:1T:216:LYS:O	12:1T:216:LYS:HD2	2.21	0.40
13:1U:322:ARG:HA	13:1U:595:ALA:O	2.21	0.40
13:1U:441:MET:HE1	13:1U:445:MET:HE3	2.01	0.40
1:2A:87:LYS:C	1:2A:89:ALA:H	2.29	0.40
1:2A:91:ASN:HA	46:MJ:37:HIS:CE1	2.56	0.40
16:2B:136:ARG:HB2	26:2W:261:LYS:HZ1	1.84	0.40
20:2K:302:LYS:HA	20:2K:305:MET:HG2	2.04	0.40
21:2L:401:GLU:OE2	21:2L:405:LYS:HD2	2.21	0.40
21:2L:513:LEU:C	21:2L:517:ARG:HE	2.27	0.40
22:2M:105:GLY:HA3	22:2M:255:ASP:HB2	2.02	0.40
23:2O:274:VAL:HG12	23:2O:278:ARG:CZ	2.51	0.40
23:2O:338:LEU:C	23:2O:342:ARG:HE	2.29	0.40
24:2P:481:ARG:HA	24:2P:484:ARG:NH1	2.37	0.40
10:2Q:94:LEU:HB2	10:2Q:152:LEU:CD2	2.50	0.40
13:2U:88:ASP:HB2	13:2U:95:MET:HB2	2.03	0.40
14:2V:203:GLU:HA	14:2V:206:ARG:NH2	2.36	0.40
16:3B:43:ARG:HE	16:3B:81:SER:HA	1.86	0.40
32:3D:7:LYS:HB2	32:3D:212:GLU:OE2	2.21	0.40
5:3E:178:ASP:OD1	5:3E:179:ASP:N	2.54	0.40
21:3L:45:ARG:HD3	46:BB:362:LYS:HG2	2.03	0.40
25:3R:257:LYS:HE3	25:3R:257:LYS:HB2	1.86	0.40
25:3R:433:ARG:O	25:3R:434:ARG:NH1	2.46	0.40
25:3R:452:ALA:HA	25:3R:460:ASP:OD2	2.21	0.40
11:3S:8:GLN:C	11:3S:10:ASN:H	2.29	0.40
11:3S:194:TYR:O	11:3S:197:LEU:N	2.54	0.40
30:4H:194:LYS:HE2	30:4H:194:LYS:HB2	1.96	0.40
34:4R:85:TRP:CZ2	45:AE:372:MET:HE1	2.57	0.40
34:4R:226:LYS:O	34:4R:230:GLU:HG3	2.21	0.40
36:5A:150:PHE:HE1	45:NC:26:LEU:HD11	1.86	0.40
36:5B:73:SER:OG	36:5B:74:SER:N	2.54	0.40
36:5B:74:SER:O	36:5B:75:TYR:HD2	2.04	0.40
37:5E:176:ASP:O	37:5E:180:THR:HG23	2.20	0.40
37:5E:209:ARG:HH22	45:LC:264:ARG:HH12	1.68	0.40
37:5F:16:GLN:HG2	37:5F:22:LYS:NZ	2.36	0.40
37:5F:200:LEU:O	37:5F:204:LYS:NZ	2.54	0.40
37:5G:172:ASN:OD1	37:5G:172:ASN:N	2.53	0.40
37:5H:29:LYS:NZ	45:OK:219:ILE:HD13	2.36	0.40
37:5H:61:LYS:HG2	46:ON:276:ARG:NH2	2.36	0.40
34:5R:318:TYR:OH	46:CJ:273:LEU:HA	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:5R:389:ASN:OD1	34:5R:390:GLY:N	2.54	0.40
39:6F:68:TRP:CD1	39:6F:68:TRP:N	2.88	0.40
40:6G:217:TYR:HA	40:6G:220:LEU:HG	2.02	0.40
40:6G:265:LEU:N	40:6G:266:PRO:HD3	2.36	0.40
40:6G:268:VAL:HG21	40:6G:271:TYR:CE2	2.56	0.40
41:6H:276:ILE:H	41:6H:276:ILE:HD12	1.85	0.40
41:6H:286:GLU:HG3	41:6H:289:LYS:H	1.85	0.40
34:6R:13:PRO:HA	46:LN:227:HIS:ND1	2.36	0.40
34:6R:121:TYR:HB2	34:6R:126:THR:HG22	2.02	0.40
34:6R:224:ASN:O	34:6R:227:GLU:HG3	2.20	0.40
34:6R:282:ASP:OD1	34:6R:282:ASP:C	2.64	0.40
34:6R:495:ILE:HA	34:6R:503:PHE:O	2.21	0.40
34:7R:567:ASN:OD1	34:7R:568:ASP:N	2.54	0.40
45:AA:179:THR:O	46:AB:350:LYS:HA	2.21	0.40
45:AA:288:VAL:HG23	45:AA:319:TYR:HE2	1.86	0.40
46:AD:8:GLN:HE21	46:AD:65:LEU:CD1	2.34	0.40
46:AD:40:SER:O	46:AD:43:GLN:HG3	2.20	0.40
46:AD:139:LEU:HD13	46:AD:168:SER:HB3	2.02	0.40
46:AF:130:LEU:HD12	46:AF:130:LEU:HA	1.95	0.40
46:AF:262:ARG:NH1	46:AF:421:GLU:HG3	2.36	0.40
46:AJ:69:GLU:HA	46:AJ:70:PRO:HD3	1.89	0.40
46:AJ:230:SER:HA	46:AJ:233:MET:HE3	2.03	0.40
45:AM:21:TRP:HZ2	45:AM:65:ALA:HB2	1.86	0.40
46:AN:7:ILE:HG21	46:AN:151:LEU:HD21	2.03	0.40
46:AN:116:VAL:O	46:AN:120:VAL:HG23	2.21	0.40
46:AN:133:PHE:HB2	46:AN:164:MET:SD	2.62	0.40
46:BB:316:LEU:HG	46:BB:352:SER:OG	2.21	0.40
45:BC:11:GLN:HE21	45:BC:15:GLN:NE2	2.17	0.40
45:BC:17:GLY:HA2	45:BC:20:CYS:SG	2.60	0.40
46:BD:293:MET:HE3	46:BD:294:PHE:CZ	2.56	0.40
46:BF:5:VAL:HG12	46:BF:62:ARG:HD3	2.04	0.40
46:BF:6:HIS:O	46:BF:63:ALA:HA	2.21	0.40
45:BG:210:TYR:CE2	46:BH:324:LYS:HD3	2.56	0.40
45:BG:371:VAL:C	45:BG:372:MET:HE2	2.46	0.40
46:BJ:101:TRP:HZ3	46:BJ:403:MET:HE1	1.87	0.40
45:BK:5:ILE:O	45:BK:135:PHE:HA	2.22	0.40
45:BK:227:LEU:O	45:BK:231:ILE:HG12	2.20	0.40
45:BM:265:ILE:HG22	45:BM:432:TYR:CE1	2.56	0.40
45:CA:107:HIS:O	45:CA:107:HIS:ND1	2.54	0.40
46:CB:268:ILE:O	46:CB:300:MET:HB2	2.20	0.40
46:CF:175:VAL:O	46:CF:175:VAL:HG23	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CF:375:GLN:O	46:CF:379:LYS:HG3	2.21	0.40
45:CI:133:GLN:HB3	45:CI:252:ILE:HD11	2.03	0.40
45:CI:194:LEU:HD13	45:CI:198:THR:HG21	2.03	0.40
46:CJ:175:VAL:HG23	46:CJ:175:VAL:O	2.20	0.40
46:CJ:318:ARG:HH11	46:CJ:358:PRO:HG3	1.85	0.40
45:CK:368:LEU:H	45:CK:368:LEU:HD12	1.85	0.40
45:CM:326:LYS:NZ	46:CN:220:PRO:HB2	2.36	0.40
45:DE:301:MET:CE	45:DE:307:PRO:HD3	2.51	0.40
46:DF:256:ASN:ND2	46:DF:350:LYS:HD3	2.36	0.40
46:DF:324:LYS:HB2	46:DF:324:LYS:HE2	1.69	0.40
45:DG:91:GLN:HA	45:DG:121:ARG:HD3	2.03	0.40
46:DJ:48:ASN:HA	46:DJ:51:TYR:O	2.21	0.40
45:DK:5:ILE:HB	45:DK:135:PHE:CD1	2.56	0.40
45:DK:241:SER:HB2	45:DK:249:ASN:HD22	1.86	0.40
46:DL:2:ARG:HG3	45:DM:96:LYS:NZ	2.36	0.40
46:DL:113:ILE:HA	46:DL:116:VAL:HG12	2.03	0.40
46:DL:344:TRP:CE3	46:DL:345:ILE:HG12	2.56	0.40
46:DN:173:PRO:HG2	46:DN:380:ARG:HD3	2.04	0.40
46:EB:332:ASN:HB3	46:EB:336:LYS:NZ	2.35	0.40
45:EC:174:SER:HB2	45:EC:177:VAL:O	2.20	0.40
46:ED:327:ASP:OD1	46:ED:328:GLU:N	2.54	0.40
45:EE:174:SER:HB2	45:EE:177:VAL:O	2.21	0.40
45:EG:20:CYS:HA	45:EG:232:ALA:HB1	2.03	0.40
45:EG:135:PHE:HB2	45:EG:166:LYS:HG2	2.03	0.40
46:EH:54:ALA:HA	46:FH:283:ALA:HB2	2.03	0.40
45:EI:3:GLU:HG2	45:EI:64:ARG:CZ	2.51	0.40
46:EJ:127:CYS:SG	46:EJ:130:LEU:HD22	2.61	0.40
46:EJ:420:SER:O	46:EJ:423:GLN:HG3	2.20	0.40
45:EK:145:THR:HG22	47:EK:501:GTP:PG	2.62	0.40
45:EM:11:GLN:O	45:EM:15:GLN:HG2	2.20	0.40
45:EM:21:TRP:CE3	45:EM:24:PHE:HD2	2.39	0.40
45:FA:317:MET:HG3	45:FA:377:MET:HB3	2.03	0.40
45:FA:320:ARG:NH2	45:FA:360:PRO:HA	2.35	0.40
45:FE:346:TRP:CD1	45:FE:346:TRP:H	2.38	0.40
46:FF:147:MET:HE2	46:FF:147:MET:HB3	1.76	0.40
46:FF:378:PHE:HA	46:FF:381:VAL:HG12	2.03	0.40
46:FH:392:LYS:HA	46:FH:392:LYS:HD3	1.92	0.40
45:FI:210:TYR:CE1	45:FI:227:LEU:HD11	2.56	0.40
46:FL:66:MET:HE1	46:FL:147:MET:HG2	2.02	0.40
45:FM:69:ASP:O	45:FM:94:SER:HA	2.21	0.40
45:FM:98:ASP:OD1	45:FM:99:ALA:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GA:180:ALA:HA	46:GB:350:LYS:HD2	2.03	0.40
45:GA:352:LYS:HZ1	46:GD:178:THR:HA	1.84	0.40
45:GC:329:ASN:HB3	46:GF:175:VAL:HG12	2.01	0.40
46:GF:21:TRP:CZ3	46:GF:61:PRO:HB3	2.56	0.40
46:GH:44:LEU:HD23	46:GH:44:LEU:HA	1.87	0.40
45:GI:271:SER:HB2	45:GI:377:MET:CG	2.51	0.40
46:GJ:316:LEU:HD23	46:GJ:352:SER:HB2	2.02	0.40
46:GL:3:GLU:OE2	46:GL:127:CYS:HB2	2.22	0.40
45:GM:124:LYS:HE2	45:GM:124:LYS:HB2	1.88	0.40
46:GN:114:ASP:OD1	46:GN:114:ASP:N	2.52	0.40
45:HA:124:LYS:HA	45:HA:127:ASP:OD1	2.21	0.40
45:HA:426:ALA:O	45:HA:429:GLU:HG3	2.21	0.40
46:HB:16:ILE:HD12	46:HB:229:VAL:HG11	2.04	0.40
45:HE:195:LEU:HD21	45:HE:264:ARG:HH21	1.86	0.40
46:HF:377:MET:O	46:HF:380:ARG:HG2	2.21	0.40
45:HK:88:HIS:HB3	45:HK:91:GLN:CD	2.46	0.40
45:HK:413:MET:HE3	45:HK:417:GLU:CB	2.52	0.40
46:HL:262:ARG:HB2	46:HL:262:ARG:CZ	2.50	0.40
46:HN:55:THR:HG23	46:IN:283:ALA:HA	2.03	0.40
45:IC:107:HIS:HD2	45:IC:151:SER:HB2	1.86	0.40
45:IC:155:GLU:OE2	45:IC:156:ARG:NH2	2.52	0.40
45:IC:296:PHE:CE1	45:IC:377:MET:HE2	2.55	0.40
46:ID:7:ILE:HD13	46:ID:64:ILE:HB	2.03	0.40
46:IF:103:LYS:HG3	46:IF:401:GLU:OE2	2.22	0.40
45:IG:302:MET:HE3	45:IG:302:MET:HB2	1.87	0.40
46:IH:8:GLN:OE1	46:IH:17:GLY:HA3	2.21	0.40
46:IH:409:THR:O	46:IH:412:GLU:HG3	2.21	0.40
45:IK:22:GLU:O	45:IK:26:LEU:HD23	2.21	0.40
45:IK:202:VAL:HG12	45:IK:204:LEU:HG	2.02	0.40
46:IL:70:PRO:O	46:IL:74:ASP:HB2	2.21	0.40
45:IM:269:LEU:HD23	45:IM:379:SER:O	2.21	0.40
45:JA:215:ARG:NH2	45:JA:299:ALA:O	2.54	0.40
46:JB:260:PHE:HB2	46:JB:263:LEU:HG	2.02	0.40
46:JJ:11:GLN:HG3	46:JJ:12:CYS:N	2.36	0.40
45:JK:20:CYS:HA	45:JK:232:ALA:HB1	2.03	0.40
46:JL:418:LEU:O	46:JL:422:TYR:HB2	2.21	0.40
46:JN:263:LEU:HD22	46:JN:422:TYR:CD1	2.56	0.40
45:KC:25:CYS:HB2	45:KC:30:ILE:HB	2.03	0.40
46:KD:3:GLU:OE2	46:KD:127:CYS:HB2	2.20	0.40
46:KD:27:GLU:OE1	46:KD:28:HIS:CE1	2.74	0.40
45:KE:392:ASP:OD2	45:KE:422:ARG:NE	2.53	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KF:21:TRP:CZ3	46:KF:61:PRO:HB3	2.56	0.40
45:KI:175:PRO:HG2	45:KI:176:GLN:OE1	2.21	0.40
46:KJ:115:SER:O	46:KJ:119:VAL:HG23	2.21	0.40
45:KK:115:VAL:HG22	45:KK:119:LEU:HD23	2.02	0.40
46:KL:221:THR:HG23	46:KL:223:GLY:N	2.35	0.40
46:KN:62:ARG:HD3	46:KN:123:GLU:OE2	2.21	0.40
46:KN:406:MET:N	46:KN:406:MET:SD	2.94	0.40
45:LA:254:GLU:O	45:LA:255:PHE:HD1	2.04	0.40
45:LA:338:LYS:HA	45:LA:338:LYS:HD2	1.86	0.40
45:LC:210:TYR:HB3	46:LD:324:LYS:NZ	2.36	0.40
46:LF:233:MET:O	46:LF:236:VAL:HG12	2.21	0.40
45:LG:88:HIS:ND1	45:LG:90:GLU:HG2	2.37	0.40
45:LI:384:ILE:O	45:LI:387:VAL:HG22	2.22	0.40
45:LK:55:GLU:OE2	45:LK:56:THR:N	2.53	0.40
46:LL:363:MET:HE3	46:LL:363:MET:HB2	1.93	0.40
45:LM:66:VAL:HG11	45:LM:122:ILE:HD11	2.03	0.40
46:MD:101:TRP:HB3	46:MD:398:TYR:HE1	1.85	0.40
45:MG:109:THR:HG22	45:MG:110:ILE:HG23	2.02	0.40
45:MK:179:THR:O	46:ML:350:LYS:HA	2.21	0.40
46:ML:32:PRO:HA	46:ML:84:LEU:HD11	2.03	0.40
46:MN:117:LEU:HA	46:MN:120:VAL:HG12	2.02	0.40
46:MN:238:CYS:HB2	46:MN:318:ARG:NH1	2.36	0.40
46:MN:409:THR:O	46:MN:412:GLU:HG2	2.20	0.40
46:NB:131:GLN:O	46:NB:162:ARG:NE	2.54	0.40
45:NC:210:TYR:HE1	45:NC:227:LEU:HD11	1.86	0.40
45:NC:279:GLU:HG3	45:NC:281:ALA:H	1.86	0.40
46:ND:29:GLY:HA2	46:ND:37:HIS:CE1	2.56	0.40
46:ND:330:MET:SD	46:ND:349:ILE:HG21	2.62	0.40
45:NE:249:ASN:OD1	46:NH:11:GLN:NE2	2.48	0.40
45:NG:165:SER:HA	45:NG:199:ASP:OD2	2.20	0.40
46:NH:256:ASN:ND2	46:NH:350:LYS:HB2	2.36	0.40
45:NI:103:PHE:H	45:NI:408:TYR:HE2	1.68	0.40
46:NJ:270:PHE:CE1	46:NJ:364:ALA:HB1	2.56	0.40
45:NK:88:HIS:ND1	45:NK:90:GLU:HG3	2.36	0.40
46:NL:66:MET:HA	46:NL:91:VAL:O	2.21	0.40
46:NL:282:ARG:HB3	46:NL:283:ALA:H	1.63	0.40
45:NM:205:ASP:OD2	45:NM:206:ASN:N	2.53	0.40
46:NN:132:GLY:HA3	46:NN:163:ILE:HG13	2.02	0.40
46:NN:286:VAL:HG23	46:NN:287:PRO:HD3	2.02	0.40
45:OA:406:HIS:CD2	45:OA:407:TRP:HD1	2.39	0.40
46:OB:266:PHE:CD1	46:OB:370:ASN:HB2	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OB:404:ASP:N	46:OB:404:ASP:OD1	2.54	0.40
46:OB:417:ASP:O	46:OB:421:GLU:HG3	2.20	0.40
45:OC:7:ILE:HG22	45:OC:66:VAL:HB	2.03	0.40
45:OC:53:PHE:O	45:OC:64:ARG:NH2	2.54	0.40
46:OD:318:ARG:NH2	46:OD:358:PRO:HG3	2.37	0.40
46:OF:199:CYS:HB3	46:OF:265:PHE:HD1	1.86	0.40
46:OF:285:THR:HG23	46:OF:287:PRO:HD2	2.03	0.40
45:OG:32:PRO:O	45:OG:86:LEU:HB2	2.21	0.40
45:OG:384:ILE:O	45:OG:387:VAL:HG12	2.21	0.40
45:OG:416:GLY:O	45:OG:419:SER:N	2.53	0.40
46:OH:310:TYR:O	46:OH:342:VAL:HG12	2.21	0.40
46:OJ:3:GLU:H	46:OJ:3:GLU:CD	2.29	0.40
46:OJ:64:ILE:HA	46:OJ:89:ASN:HB3	2.03	0.40
46:OL:184:ASN:OD1	46:OL:185:ALA:N	2.54	0.40
45:OM:169:PHE:CE1	45:OM:202:VAL:HG21	2.55	0.40
45:OM:288:VAL:O	45:OM:292:THR:HG23	2.21	0.40
45:PG:181:VAL:HG23	46:PH:347:ASN:O	2.21	0.40
46:PH:99:ASN:OD1	46:PH:142:GLY:N	2.54	0.40
45:PI:175:PRO:HA	45:PI:390:ARG:HH11	1.85	0.40
45:PI:222:PRO:HG2	46:PJ:324:LYS:HE2	2.02	0.40
46:PJ:183:TYR:OH	46:PJ:393:ALA:O	2.38	0.40
46:PJ:229:VAL:O	46:PJ:233:MET:HG3	2.21	0.40
45:PK:434:GLU:O	45:PK:437:ILE:HG22	2.21	0.40
45:PM:104:ALA:HB1	45:PM:411:GLU:OE1	2.21	0.40
46:PN:274:THR:CG2	46:PN:282:ARG:HH21	2.33	0.40
45:QA:288:VAL:HA	45:QA:291:ILE:HG12	2.02	0.40
45:QA:378:ILE:HD12	45:QA:378:ILE:HA	1.97	0.40
45:QC:32:PRO:HB3	45:QC:83:TYR:CE1	2.56	0.40
45:QC:131:GLY:O	45:QC:133:GLN:NE2	2.55	0.40
46:QD:350:LYS:HD2	46:QD:351:SER:N	2.36	0.40
45:QE:98:ASP:OD1	45:QE:99:ALA:N	2.54	0.40
46:QH:50:TYR:CE2	46:QH:241:ARG:HD3	2.57	0.40
46:QH:116:VAL:O	46:QH:120:VAL:HG23	2.21	0.40
45:QI:141:VAL:HG11	45:QI:172:TYR:HA	2.02	0.40
45:QM:188:ILE:HG13	45:QM:189:LEU:HD12	2.03	0.40
46:QN:380:ARG:HE	46:QN:380:ARG:HB3	1.76	0.40
46:RD:347:ASN:ND2	45:RE:176:GLN:O	2.40	0.40
45:RE:133:GLN:HG3	45:RE:242:LEU:HD21	2.02	0.40
45:RE:280:LYS:O	45:RE:280:LYS:HG3	2.21	0.40
45:RE:333:ALA:O	45:RE:337:THR:HG23	2.21	0.40
46:RF:178:THR:HB	46:RF:181:GLU:HG3	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RF:252:LYS:HA	46:RF:255:VAL:HG12	2.02	0.40
45:RG:235:ILE:O	45:RG:239:THR:HG22	2.21	0.40
45:RG:287:SER:O	45:RG:291:ILE:HG23	2.20	0.40
45:RG:352:LYS:NZ	46:RH:179:VAL:HG22	2.36	0.40
46:RH:19:LYS:O	46:RH:23:VAL:HG23	2.21	0.40
45:RK:433:GLU:O	45:RK:437:ILE:HG12	2.20	0.40
46:RL:316:LEU:HB3	46:RL:366:THR:OG1	2.20	0.40
45:RM:107:HIS:CE1	45:RM:108:TYR:CE1	3.09	0.40
45:RM:174:SER:OG	45:RM:207:GLU:OE1	2.28	0.40
46:SB:2:ARG:NH2	45:SC:71:GLU:OE2	2.49	0.40
46:SB:282:ARG:HE	46:SB:283:ALA:N	2.19	0.40
45:SC:188:ILE:HD13	45:SC:422:ARG:NH2	2.36	0.40
46:SD:238:CYS:HB2	46:SD:318:ARG:HH11	1.86	0.40
46:SF:222:TYR:O	46:SF:226:ASN:ND2	2.32	0.40
45:SG:196:GLU:N	45:SG:196:GLU:OE2	2.54	0.40
45:SI:265:ILE:HD12	45:SI:432:TYR:CE2	2.56	0.40
45:SK:135:PHE:HB2	45:SK:166:LYS:HG2	2.03	0.40
45:SK:348:PRO:HB2	46:SL:384:GLN:HE22	1.86	0.40
45:SK:411:GLU:N	45:SK:411:GLU:OE1	2.54	0.40
45:SM:118:CYS:O	45:SM:122:ILE:HG12	2.22	0.40
45:SM:212:ILE:HD11	45:SM:300:ASN:HA	2.04	0.40
46:SN:238:CYS:SG	46:SN:239:CYS:N	2.95	0.40
45:TA:68:LEU:HD21	45:TA:118:CYS:SG	2.61	0.40
46:TD:399:THR:HA	46:TD:403:MET:O	2.21	0.40
46:TF:107:THR:HG21	46:TF:401:GLU:OE2	2.21	0.40
46:TJ:267:MET:HB2	46:TJ:299:MET:CE	2.51	0.40
46:TJ:350:LYS:HG3	45:TK:179:THR:O	2.20	0.40
46:TL:345:ILE:HA	45:TM:398:MET:HE1	2.03	0.40
45:TM:254:GLU:OE2	45:TM:257:THR:OG1	2.32	0.40
45:TM:430:LYS:HE2	45:TM:430:LYS:HA	2.03	0.40
45:UA:287:SER:O	45:UA:291:ILE:HG23	2.21	0.40
46:UB:130:LEU:HG	46:UB:132:GLY:N	2.36	0.40
46:UB:276:ARG:HA	46:UB:276:ARG:HD3	1.87	0.40
46:UB:337:ASN:OD1	46:UB:340:TYR:HB2	2.21	0.40
46:UB:345:ILE:HG22	46:UB:348:ASN:HB3	2.03	0.40
46:UD:3:GLU:CD	46:UD:3:GLU:H	2.30	0.40
46:UD:105:HIS:CD2	46:UD:150:LEU:HG	2.56	0.40
45:UE:2:ARG:O	45:UE:51:THR:HA	2.21	0.40
45:UE:21:TRP:CZ2	45:UE:65:ALA:HB2	2.56	0.40
46:UF:28:HIS:C	46:UF:43:GLN:HE21	2.28	0.40
46:UF:48:ASN:HA	46:UF:51:TYR:O	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UF:251:ARG:O	46:UF:255:VAL:HG23	2.21	0.40
46:UF:282:ARG:NE	46:UF:288:GLU:OE1	2.38	0.40
46:UH:97:ALA:C	46:UH:103:LYS:HZ1	2.26	0.40
46:UH:237:THR:OG1	46:UH:241:ARG:NH1	2.45	0.40
46:UH:252:LYS:HA	45:UI:100:ALA:HB1	2.03	0.40
45:UI:352:LYS:NZ	46:UJ:179:VAL:H	2.08	0.40
46:UJ:323:THR:HG21	45:UK:224:TYR:CE1	2.56	0.40
45:UK:272:TYR:HD2	45:UK:275:ILE:HD11	1.86	0.40
45:UK:434:GLU:O	45:UK:437:ILE:HG12	2.21	0.40
46:UL:97:ALA:C	46:UL:103:LYS:HZ1	2.27	0.40
46:UL:150:LEU:O	46:UL:153:SER:OG	2.39	0.40
45:VA:179:THR:HG22	46:VB:350:LYS:NZ	2.37	0.40
45:VA:238:LEU:HD12	45:VA:239:THR:HG23	2.02	0.40
46:VB:309:ARG:N	46:VB:372:THR:OG1	2.47	0.40
45:VC:148:GLY:O	45:VC:151:SER:OG	2.35	0.40
45:VC:209:ILE:HG21	45:VC:227:LEU:HD13	2.02	0.40
46:VD:304:ASP:OD1	46:VD:306:ARG:HG2	2.21	0.40
46:VD:391:ARG:HD2	46:VD:391:ARG:HA	1.75	0.40
46:VF:68:LEU:HD23	46:VF:143:THR:OG1	2.21	0.40
46:VF:267:MET:HE2	46:VF:299:MET:HG2	2.03	0.40
46:VF:376:GLU:O	46:VF:380:ARG:HG2	2.21	0.40
45:VG:104:ALA:HB2	45:VG:413:MET:HG3	2.04	0.40
45:VG:121:ARG:HD2	45:VG:124:LYS:NZ	2.36	0.40
46:VH:68:LEU:HD13	46:VH:68:LEU:HA	1.88	0.40
46:VH:211:CYS:O	46:VH:215:LEU:HB2	2.21	0.40
45:VI:205:ASP:CG	45:VI:304:LYS:H	2.30	0.40
45:VI:407:TRP:CE3	46:VJ:255:VAL:HG22	2.56	0.40
46:VJ:141:GLY:HA3	49:VJ:501:GDP:O3A	2.20	0.40
45:VK:200:VAL:HG13	45:VK:268:MET:SD	2.61	0.40
45:WA:222:PRO:HD2	46:WB:324:LYS:NZ	2.36	0.40
45:WC:88:HIS:CE1	45:WC:90:GLU:HG3	2.55	0.40
45:WC:226:ASN:ND2	45:WC:367:ASP:OD2	2.54	0.40
45:WC:280:LYS:HA	45:WC:283:HIS:HD2	1.86	0.40
45:WC:353:VAL:HG12	46:WF:177:ASP:HB2	2.03	0.40
45:WC:422:ARG:HA	45:WC:422:ARG:HD2	1.96	0.40
46:WD:206:ALA:O	46:WD:210:ILE:HG12	2.21	0.40
46:WF:88:ASP:OD1	46:WF:89:ASN:N	2.54	0.40
46:WF:390:ARG:HA	46:WF:390:ARG:CZ	2.51	0.40
46:WH:257:LEU:HB3	46:WH:266:PHE:CZ	2.56	0.40
46:WJ:22:GLU:HG2	46:WJ:81:PHE:CD1	2.56	0.40
45:WK:36:MET:HA	45:WK:37:PRO:HD3	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WK:208:ALA:O	45:WK:212:ILE:HG12	2.20	0.40
46:WN:8:GLN:O	46:WN:66:MET:HG3	2.21	0.40
46:WN:356:ILE:HD12	46:WN:357:PRO:HD2	2.02	0.40
45:DC:172:TYR:HD2	45:DC:203:MET:SD	2.44	0.40
2:0B:151:VAL:O	2:0B:151:VAL:HG12	2.21	0.40
2:0B:182:LEU:O	2:0B:183:LYS:NZ	2.51	0.40
2:0B:322:ARG:HG2	2:0B:322:ARG:NH1	2.35	0.40
4:0D:174:TYR:CE2	4:0D:176:GLY:HA3	2.56	0.40
5:0E:103:ALA:O	5:0E:107:PHE:HD1	2.04	0.40
5:0E:164:TRP:CE2	5:0E:168:TYR:CE2	3.09	0.40
7:0G:105:TYR:HE2	45:JM:81:GLY:HA3	1.87	0.40
9:0N:24:GLU:OE2	45:IM:84:ARG:NE	2.47	0.40
9:0N:47:LYS:HA	9:0N:50:ARG:NH1	2.37	0.40
11:0S:232:LYS:HA	11:0S:235:GLN:OE1	2.22	0.40
11:0S:257:PRO:HG2	46:AB:417:ASP:OD2	2.22	0.40
13:0U:187:VAL:HG13	13:0U:225:ALA:O	2.21	0.40
1:1A:34:LEU:HD13	46:MF:40:SER:OG	2.21	0.40
16:1B:60:LEU:HB3	16:1B:61:THR:H	1.69	0.40
16:1B:131:PRO:O	16:1B:135:THR:HG23	2.20	0.40
4:1D:6:ARG:HA	45:CG:84:ARG:HH21	1.86	0.40
4:1D:171:LEU:HD12	45:EG:89:PRO:HA	2.03	0.40
7:1G:152:GLY:HA3	27:3C:266:GLN:HG3	2.02	0.40
8:1H:115:ARG:HE	46:HL:279:GLN:HG2	1.86	0.40
8:1H:398:GLU:HA	8:1H:401:ARG:HG2	2.02	0.40
18:1I:141:PHE:HD2	46:KF:40:SER:HB3	1.85	0.40
19:1J:117:GLU:HB2	45:IE:220:GLU:OE2	2.22	0.40
20:1K:202:GLU:HG3	20:1K:206:LYS:HE3	2.03	0.40
20:1K:240:MET:O	20:1K:243:GLU:HG3	2.21	0.40
20:1K:243:GLU:OE2	20:1K:244:GLU:HG3	2.21	0.40
22:1M:110:ILE:HG21	22:1M:190:ILE:HD11	2.02	0.40
22:1M:275:PRO:O	22:1M:279:GLU:HB2	2.22	0.40
22:1M:332:ILE:O	22:1M:334:PRO:HD3	2.21	0.40
9:1N:30:MET:O	9:1N:34:LEU:HD23	2.21	0.40
9:1N:187:TYR:HE2	9:1N:189:ASP:HB3	1.86	0.40
25:1R:60:LYS:HD2	25:1R:60:LYS:HA	1.90	0.40
13:1U:31:ILE:HD12	13:1U:40:VAL:HG12	2.03	0.40
16:2B:285:TYR:HA	16:2B:288:PHE:HB3	2.03	0.40
4:2D:75:ASP:HB3	46:EJ:362:LYS:HE3	2.03	0.40
29:2G:12:GLU:OE2	29:2G:16:GLN:NE2	2.46	0.40
9:2N:121:TYR:HD1	9:2N:138:LYS:HD3	1.87	0.40
23:2O:156:ARG:HH22	45:VK:369:ALA:N	2.18	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:2O:264:ILE:HD11	45:VG:282:TYR:CD2	2.56	0.40
23:2O:410:ILE:HA	23:2O:413:GLN:HE22	1.86	0.40
11:2S:15:ILE:HA	11:2S:18:ARG:HH12	1.86	0.40
11:2S:162:PRO:HA	11:2S:165:LEU:HD12	2.04	0.40
11:2S:310:ILE:O	11:2S:310:ILE:HG13	2.20	0.40
13:2U:255:GLY:HA3	13:2U:281:VAL:HG11	2.02	0.40
26:2W:247:ARG:HB3	26:2W:251:ARG:HH21	1.86	0.40
26:2W:270:GLU:OE1	45:LK:279:GLU:HG2	2.21	0.40
15:2X:90:ARG:NH2	34:5R:49:ASN:OD1	2.54	0.40
16:3B:177:LEU:HD21	16:3B:181:LYS:O	2.22	0.40
27:3C:21:LEU:HD23	27:3C:21:LEU:HA	1.88	0.40
5:3E:27:LEU:HG	5:3E:31:PHE:CE2	2.56	0.40
5:3E:98:ALA:O	5:3E:101:LEU:HG	2.21	0.40
5:3E:121:ARG:HH12	34:6R:579:ASN:C	2.30	0.40
5:3E:160:GLN:NE2	5:3E:163:GLU:HG3	2.36	0.40
21:3L:33:LYS:CE	21:3L:117:GLU:HG2	2.51	0.40
25:3R:87:LEU:HA	45:MK:85:GLN:HE22	1.87	0.40
25:3R:233:LYS:O	25:3R:237:GLU:OE1	2.39	0.40
13:3U:489:GLU:HB3	13:3U:493:PHE:HZ	1.86	0.40
27:4C:104:ALA:O	27:4C:108:LEU:HG	2.21	0.40
10:4Q:134:PHE:CE2	10:4Q:136:LEU:HB2	2.57	0.40
34:4R:85:TRP:CH2	45:AE:372:MET:HE1	2.56	0.40
34:4R:311:LYS:HE2	34:4R:311:LYS:HB2	1.82	0.40
15:4X:53:ILE:O	15:4X:57:LYS:HG2	2.21	0.40
37:5F:107:VAL:HG23	37:5F:108:LYS:N	2.37	0.40
37:5F:135:LYS:O	37:5F:138:LEU:HG	2.21	0.40
10:5Q:37:ILE:HG22	10:5Q:38:THR:O	2.21	0.40
34:5R:335:VAL:HG23	34:5R:368:GLN:HE21	1.86	0.40
34:5R:351:ASN:OD1	34:5R:352:CYS:N	2.53	0.40
34:5R:407:LYS:C	46:EJ:218:THR:HG21	2.46	0.40
35:5S:130:ARG:HG2	35:5S:130:ARG:O	2.20	0.40
35:5S:217:LEU:O	35:5S:221:THR:HG23	2.21	0.40
41:6H:219:THR:HG22	46:FD:320:ARG:HH12	1.85	0.40
41:6H:289:LYS:HZ2	46:FH:276:ARG:HD2	1.84	0.40
34:7R:249:LEU:HA	45:CA:370:LYS:HE3	2.02	0.40
45:AA:317:MET:HB3	45:AA:377:MET:HG2	2.02	0.40
46:AB:69:GLU:HA	46:AB:70:PRO:HD3	1.88	0.40
46:AD:68:LEU:HD13	46:AD:147:MET:HE1	2.02	0.40
46:AF:139:LEU:HD13	46:AF:168:SER:HB3	2.03	0.40
45:AG:175:PRO:HG3	45:AG:390:ARG:NH2	2.36	0.40
46:AH:117:LEU:HA	46:AH:120:VAL:HG12	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AI:36:MET:HG3	45:AI:61:HIS:CE1	2.57	0.40
45:AI:284:GLU:OE1	45:AI:284:GLU:N	2.54	0.40
46:AL:22:GLU:OE2	46:AL:80:PRO:HB2	2.21	0.40
46:AL:179:VAL:O	46:AL:388:MET:HE1	2.22	0.40
46:AN:348:ASN:O	46:AN:349:ILE:HD13	2.21	0.40
45:BA:175:PRO:CA	45:BA:390:ARG:HE	2.34	0.40
45:BA:287:SER:O	45:BA:290:GLU:HG2	2.21	0.40
45:BA:352:LYS:HD2	46:BD:178:THR:HA	2.03	0.40
46:BB:97:ALA:HA	46:BB:103:LYS:HE3	2.03	0.40
45:BC:251:ASP:H	45:BC:254:GLU:CG	2.34	0.40
46:BD:149:THR:OG1	46:BD:191:GLN:HB2	2.22	0.40
46:BD:203:ASP:O	46:BD:207:LEU:HD23	2.21	0.40
45:BE:175:PRO:HA	45:BE:390:ARG:NE	2.36	0.40
46:BF:1:MET:O	46:BF:2:ARG:HG2	2.21	0.40
46:BF:72:THR:O	46:BF:76:VAL:HG13	2.21	0.40
46:BF:304:ASP:HB3	46:BF:307:HIS:ND1	2.35	0.40
46:BF:328:GLU:OE2	46:BF:329:GLN:HG2	2.20	0.40
45:BG:171:ILE:HG23	45:BG:204:LEU:O	2.21	0.40
46:BH:58:ARG:HD3	46:CF:280:GLN:OE1	2.21	0.40
46:BH:190:HIS:CD2	46:BH:411:ALA:HA	2.57	0.40
46:BH:380:ARG:HG3	46:BH:381:VAL:N	2.36	0.40
45:BI:101:ASN:HD22	45:BI:143:GLY:HA2	1.85	0.40
46:BJ:40:SER:OG	46:BJ:43:GLN:HG3	2.21	0.40
45:BK:226:ASN:HA	45:BK:229:ARG:HD2	2.02	0.40
45:BK:332:ILE:HD12	45:BK:351:PHE:CD1	2.56	0.40
45:BK:414:GLU:HG3	45:BK:417:GLU:HG2	2.03	0.40
46:BN:299:MET:HE1	46:BN:367:PHE:HD2	1.86	0.40
45:CA:97:GLU:HG2	45:CA:105:ARG:HH22	1.87	0.40
46:CB:133:PHE:HD1	46:CB:155:VAL:HG11	1.87	0.40
46:CB:293:MET:HE3	46:CB:367:PHE:HB2	2.03	0.40
46:CB:325:GLU:OE2	45:CC:221:ARG:NH2	2.54	0.40
45:CC:217:LEU:HB3	45:CC:219:ILE:HG13	2.03	0.40
45:CC:243:ARG:HG3	45:CC:244:PHE:CD2	2.56	0.40
45:CC:284:GLU:OE2	45:CC:286:LEU:HD23	2.21	0.40
45:CC:352:LYS:HD3	45:CC:353:VAL:H	1.86	0.40
46:CF:189:VAL:HG11	46:CF:415:MET:HE1	2.01	0.40
46:CF:220:PRO:C	45:CE:326:LYS:NZ	2.79	0.40
46:CF:287:PRO:HA	46:CF:329:GLN:HE22	1.86	0.40
46:CF:306:ARG:NH2	46:CF:340:TYR:OH	2.42	0.40
46:CH:139:LEU:HD12	46:CH:170:VAL:HG12	2.02	0.40
46:CH:325:GLU:OE1	46:CH:325:GLU:N	2.40	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CI:36:MET:SD	45:CI:37:PRO:HD2	2.61	0.40
45:CI:85:GLN:N	45:CI:85:GLN:OE1	2.55	0.40
46:CJ:266:PHE:HE1	46:CJ:370:ASN:HB2	1.85	0.40
46:DD:99:ASN:HB2	46:DD:142:GLY:H	1.86	0.40
46:DD:178:THR:HG23	45:DC:258:ASN:HD21	1.87	0.40
46:DF:253:LEU:HD12	46:DF:257:LEU:CD1	2.52	0.40
46:DH:48:ASN:O	46:DH:62:ARG:NH1	2.54	0.40
45:DI:167:LEU:HG	45:DI:200:VAL:HB	2.04	0.40
45:DI:263:PRO:HD3	46:DJ:396:HIS:CE1	2.57	0.40
45:DK:326:LYS:HZ2	45:DK:326:LYS:HG2	1.74	0.40
46:EB:331:LEU:O	46:EB:334:GLN:HG3	2.20	0.40
45:EC:234:VAL:O	45:EC:238:LEU:HD23	2.21	0.40
45:EC:255:PHE:HA	45:EC:259:LEU:HD23	2.02	0.40
45:EE:223:THR:HG23	45:EE:225:THR:H	1.87	0.40
46:EF:207:LEU:HB3	46:EF:225:LEU:HD22	2.02	0.40
45:EG:9:VAL:HG12	45:EG:68:LEU:HB2	2.03	0.40
45:EG:174:SER:HB2	45:EG:177:VAL:O	2.21	0.40
45:EG:278:ALA:HA	45:EG:369:ALA:HB2	2.02	0.40
45:EI:224:TYR:HD1	45:EI:227:LEU:HD12	1.86	0.40
45:EK:359:PRO:HB2	45:EK:370:LYS:NZ	2.36	0.40
45:EM:20:CYS:CB	45:EM:235:ILE:HD11	2.50	0.40
45:EM:256:GLN:HG3	46:EN:397:TRP:NE1	2.32	0.40
45:FA:105:ARG:HG2	45:FA:411:GLU:CD	2.45	0.40
46:FB:249:ASP:OD2	46:FB:252:LYS:N	2.47	0.40
46:FB:268:ILE:HA	46:FB:367:PHE:O	2.21	0.40
45:FC:137:VAL:HG23	45:FC:168:GLY:HA2	2.03	0.40
45:FC:212:ILE:HD11	45:FC:300:ASN:HA	2.01	0.40
46:FD:153:SER:O	46:FD:157:GLU:HG2	2.20	0.40
45:FG:256:GLN:HB2	46:FJ:397:TRP:CH2	2.55	0.40
45:FI:370:LYS:HE3	45:FI:370:LYS:HB3	1.89	0.40
45:FK:10:GLY:O	45:FK:14:ILE:HG12	2.21	0.40
45:FK:165:SER:C	45:FK:166:LYS:HD3	2.46	0.40
45:GA:346:TRP:HA	46:GD:388:MET:SD	2.62	0.40
45:GC:287:SER:HB3	45:GC:290:GLU:OE1	2.20	0.40
46:GD:203:ASP:O	46:GD:207:LEU:HG	2.22	0.40
45:GE:296:PHE:HE2	45:GE:335:ILE:HG21	1.86	0.40
46:GH:12:CYS:O	46:GH:16:ILE:HG12	2.21	0.40
46:GJ:108:GLU:O	46:GJ:111:GLU:HG3	2.21	0.40
45:GK:3:GLU:HG2	45:GK:64:ARG:CZ	2.51	0.40
45:GK:45:GLY:O	45:GK:46:ASP:OD1	2.39	0.40
45:GK:342:GLN:N	45:GK:342:GLN:OE1	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GK:387:VAL:O	45:GK:391:LEU:HG	2.21	0.40
46:GL:314:SER:HA	46:GL:350:LYS:O	2.21	0.40
45:GM:115:VAL:HG22	45:GM:119:LEU:HD23	2.03	0.40
46:GN:135:ILE:HB	46:GN:166:THR:HG22	2.02	0.40
46:GN:180:VAL:HG12	46:GN:180:VAL:O	2.21	0.40
45:HA:329:ASN:OD1	46:HD:175:VAL:HG23	2.22	0.40
46:HB:19:LYS:O	46:HB:23:VAL:HG23	2.21	0.40
46:HB:44:LEU:HA	46:HB:47:ILE:HG23	2.03	0.40
45:HC:222:PRO:O	46:HD:322:SER:HB2	2.22	0.40
46:HD:20:PHE:HZ	46:HD:50:TYR:HE1	1.68	0.40
46:HD:113:ILE:HA	46:HD:116:VAL:HG12	2.02	0.40
46:HF:237:THR:HG23	46:HF:241:ARG:HE	1.85	0.40
46:HF:372:THR:HA	46:HF:422:TYR:HE1	1.86	0.40
45:HG:419:SER:O	45:HG:423:GLU:OE1	2.39	0.40
46:HH:232:ALA:HB1	46:HH:268:ILE:HD12	2.03	0.40
45:HK:338:LYS:NZ	45:HK:341:ILE:HD12	2.36	0.40
46:ID:7:ILE:HD12	46:ID:64:ILE:O	2.21	0.40
46:ID:372:THR:O	46:ID:375:GLN:HG2	2.21	0.40
45:IE:5:ILE:HB	45:IE:135:PHE:HD2	1.87	0.40
46:IF:342:VAL:HG13	46:IF:345:ILE:HG22	2.03	0.40
45:IG:8:HIS:HB3	45:IG:14:ILE:HD13	2.03	0.40
45:IG:384:ILE:O	45:IG:387:VAL:HG22	2.21	0.40
45:II:172:TYR:HE2	45:II:203:MET:HE1	1.86	0.40
46:IJ:201:VAL:O	46:IJ:202:ILE:HD13	2.21	0.40
46:JD:67:ASP:OD1	46:JD:68:LEU:N	2.51	0.40
46:JF:39:ASP:OD1	46:JF:40:SER:N	2.50	0.40
46:JH:306:ARG:HG2	46:JH:340:TYR:CE1	2.56	0.40
45:JI:123:ARG:HD2	45:JI:161:TYR:OH	2.21	0.40
45:JI:189:LEU:O	45:JI:192:HIS:HB3	2.22	0.40
45:JK:25:CYS:O	45:JK:30:ILE:N	2.49	0.40
46:JL:178:THR:HG22	46:JL:180:VAL:H	1.86	0.40
46:JL:330:MET:O	46:JL:333:VAL:HG12	2.21	0.40
45:JM:121:ARG:HH21	45:JM:124:LYS:CD	2.34	0.40
45:JM:430:LYS:HA	45:JM:433:GLU:HG2	2.03	0.40
45:KA:67:PHE:HB2	45:KA:92:LEU:HG	2.04	0.40
45:KC:75:ILE:HG21	45:KC:94:SER:HB3	2.03	0.40
45:KC:417:GLU:O	45:KC:420:GLU:HG3	2.22	0.40
46:KF:376:GLU:H	46:KF:376:GLU:HG2	1.74	0.40
46:KH:2:ARG:HE	46:KH:240:LEU:HD22	1.86	0.40
46:KH:5:VAL:HG12	46:KH:62:ARG:HD3	2.04	0.40
45:KI:407:TRP:HZ3	46:KJ:255:VAL:HA	1.81	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KL:101:TRP:CE3	46:KL:187:LEU:HD23	2.56	0.40
46:KL:409:THR:O	46:KL:412:GLU:HG3	2.20	0.40
45:KM:97:GLU:HA	45:KM:97:GLU:OE2	2.21	0.40
46:KN:324:LYS:O	46:KN:328:GLU:OE1	2.39	0.40
45:LA:227:LEU:O	45:LA:231:ILE:HG12	2.21	0.40
45:LA:330:ALA:O	45:LA:334:THR:HG23	2.21	0.40
45:LA:338:LYS:NZ	45:LA:340:THR:H	2.19	0.40
46:LD:383:GLU:HA	46:LD:386:THR:HG22	2.03	0.40
46:LF:242:PHE:HB2	46:LF:354:CYS:SG	2.61	0.40
45:LI:229:ARG:NH1	45:LI:366:GLY:HA2	2.37	0.40
46:LJ:69:GLU:HA	46:LJ:69:GLU:OE1	2.21	0.40
45:LK:304:LYS:HE2	45:LK:304:LYS:HA	2.03	0.40
45:LM:172:TYR:CD2	45:LM:173:PRO:HD2	2.57	0.40
46:LN:173:PRO:HB3	46:LN:384:GLN:HE22	1.87	0.40
46:MB:88:ASP:OD1	46:MB:89:ASN:N	2.54	0.40
45:MC:392:ASP:OD1	45:MC:422:ARG:NH1	2.54	0.40
46:MD:116:VAL:HA	46:MD:119:VAL:HG12	2.03	0.40
46:MD:394:PHE:HA	46:MD:397:TRP:HZ3	1.86	0.40
46:MH:215:LEU:HD11	46:MH:273:LEU:HD12	2.03	0.40
46:MH:238:CYS:SG	46:MH:239:CYS:N	2.95	0.40
45:MK:165:SER:C	45:MK:166:LYS:HD3	2.47	0.40
45:MK:223:THR:HG23	45:MK:225:THR:H	1.85	0.40
46:MN:1:MET:HE1	46:MN:128:ASP:CB	2.51	0.40
46:MN:257:LEU:HD12	46:MN:312:THR:HG23	2.03	0.40
45:NA:29:GLY:O	45:NA:40:LYS:NZ	2.52	0.40
45:NA:258:ASN:OD1	45:NA:259:LEU:HG	2.21	0.40
46:NH:163:ILE:HA	46:NH:197:ASP:OD2	2.22	0.40
45:NI:132:LEU:C	45:NI:164:LYS:HZ1	2.28	0.40
45:NI:253:THR:HA	45:NI:256:GLN:NE2	2.36	0.40
45:NM:50:ASN:OD1	45:NM:51:THR:N	2.54	0.40
45:NM:367:ASP:OD1	45:NM:368:LEU:N	2.54	0.40
46:NN:103:LYS:HA	46:NN:107:THR:OG1	2.21	0.40
45:OA:112:LYS:HA	45:OA:115:VAL:HG12	2.02	0.40
45:OA:174:SER:HB3	45:OA:207:GLU:CD	2.46	0.40
45:OA:177:VAL:HG13	46:OB:327:ASP:HB3	2.02	0.40
45:OA:209:ILE:HD12	45:OA:209:ILE:HA	1.95	0.40
45:OA:296:PHE:CE2	45:OA:335:ILE:HG21	2.56	0.40
46:OF:188:SER:O	46:OF:192:LEU:HD23	2.22	0.40
45:OG:95:GLY:C	45:OG:96:LYS:HD3	2.47	0.40
45:OG:141:VAL:HG12	45:OG:171:ILE:O	2.20	0.40
45:OG:191:THR:HG21	45:OG:425:LEU:HD11	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OG:224:TYR:CE2	47:OG:501:GTP:C5	3.09	0.40
46:OH:190:HIS:ND1	46:OH:411:ALA:HA	2.36	0.40
45:OI:71:GLU:HA	45:OI:72:PRO:HD3	1.86	0.40
45:OK:288:VAL:HG21	45:OK:323:VAL:HG13	2.04	0.40
45:OK:406:HIS:CE1	45:OK:407:TRP:CD1	3.09	0.40
46:ON:395:LEU:HD23	46:ON:395:LEU:HA	1.89	0.40
45:PE:118:CYS:SG	45:PE:153:LEU:HD11	2.61	0.40
45:PE:145:THR:HG22	47:PE:501:GTP:PG	2.61	0.40
45:PG:71:GLU:OE2	45:PG:73:THR:OG1	2.31	0.40
45:PG:265:ILE:HD11	45:PG:435:VAL:HG21	2.03	0.40
46:PL:174:LYS:HE2	46:PL:174:LYS:HB2	1.90	0.40
45:QA:244:PHE:HB2	45:QA:356:ASN:HD21	1.86	0.40
45:QC:319:TYR:CE1	45:QC:328:VAL:HG22	2.56	0.40
45:QI:265:ILE:HG12	45:QI:432:TYR:CE2	2.55	0.40
46:QJ:318:ARG:HH11	46:QJ:358:PRO:HG3	1.85	0.40
45:QK:20:CYS:HG	45:QK:21:TRP:CD1	2.40	0.40
45:QK:60:LYS:NZ	45:QK:86:LEU:HA	2.36	0.40
46:QL:51:TYR:HB3	46:QL:59:TYR:HB3	2.03	0.40
46:QL:380:ARG:HA	46:QL:383:GLU:OE1	2.21	0.40
45:QM:88:HIS:HB3	45:QM:91:GLN:CG	2.52	0.40
46:QN:54:ALA:HB3	46:QN:58:ARG:HG2	2.04	0.40
45:RA:226:ASN:O	45:RA:230:LEU:HD23	2.21	0.40
45:RA:319:TYR:CD2	45:RA:323:VAL:HG21	2.56	0.40
45:RC:211:ASP:O	45:RC:215:ARG:HG2	2.21	0.40
45:RE:93:ILE:HG22	45:RE:114:ILE:HD11	2.02	0.40
46:RF:145:SER:HB2	46:RF:188:SER:HB3	2.03	0.40
46:RF:223:GLY:C	46:RF:227:HIS:HD1	2.26	0.40
46:RF:375:GLN:HE22	46:RF:423:GLN:HB3	1.86	0.40
45:RG:174:SER:HB2	45:RG:177:VAL:O	2.21	0.40
46:RH:69:GLU:CD	46:RH:71:GLY:H	2.29	0.40
45:RI:258:ASN:C	45:RI:259:LEU:HD22	2.47	0.40
45:RK:317:MET:HB3	45:RK:377:MET:HE1	2.02	0.40
46:SD:156:ARG:NH1	46:SD:197:ASP:OD2	2.53	0.40
45:SE:331:SER:O	45:SE:335:ILE:HG12	2.22	0.40
45:SG:210:TYR:O	45:SG:214:ARG:HG2	2.20	0.40
45:SG:287:SER:O	45:SG:291:ILE:HG23	2.20	0.40
45:SG:377:MET:O	45:SG:378:ILE:HD13	2.21	0.40
46:SH:31:ASP:OD2	46:SH:33:THR:OG1	2.39	0.40
46:SH:248:SER:HA	46:SH:252:LYS:HD3	2.02	0.40
46:SH:327:ASP:OD2	46:SH:327:ASP:N	2.55	0.40
45:SI:2:ARG:NE	45:SI:242:LEU:O	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SJ:1:MET:SD	46:SJ:2:ARG:HG2	2.61	0.40
46:SJ:132:GLY:HA3	46:SJ:163:ILE:HG13	2.03	0.40
45:SK:220:GLU:OE1	45:SK:220:GLU:N	2.54	0.40
45:SK:317:MET:SD	45:SK:317:MET:N	2.94	0.40
46:SL:178:THR:HG22	46:SL:180:VAL:H	1.86	0.40
46:SL:252:LYS:HA	45:SM:100:ALA:HB1	2.04	0.40
46:SL:398:TYR:HB3	46:SL:403:MET:HE3	2.04	0.40
46:SN:3:GLU:HG3	46:SN:62:ARG:HH12	1.86	0.40
45:TA:188:ILE:HD11	45:TA:391:LEU:HB3	2.02	0.40
46:TB:299:MET:HG3	46:TB:301:CYS:H	1.87	0.40
45:TE:3:GLU:OE2	45:TE:130:THR:N	2.54	0.40
45:TE:331:SER:O	45:TE:335:ILE:HG12	2.21	0.40
46:TF:138:SER:HA	46:TF:169:VAL:HB	2.03	0.40
46:TF:268:ILE:HG13	46:TF:300:MET:CG	2.46	0.40
45:TG:326:LYS:HG3	45:TG:327:ASP:N	2.37	0.40
46:TH:45:GLU:HG2	46:TH:46:ARG:HG2	2.02	0.40
45:TI:10:GLY:O	45:TI:14:ILE:HG12	2.20	0.40
46:TJ:147:MET:HE2	46:TJ:147:MET:HB3	1.80	0.40
46:TJ:233:MET:O	46:TJ:236:VAL:HG12	2.21	0.40
46:TL:11:GLN:O	46:TL:15:GLN:HG2	2.21	0.40
45:UA:194:LEU:HB2	45:UA:198:THR:OG1	2.21	0.40
46:UB:28:HIS:C	46:UB:43:GLN:HE21	2.29	0.40
46:UB:114:ASP:O	46:UB:117:LEU:HG	2.22	0.40
46:UB:324:LYS:NZ	45:UC:221:ARG:HH11	2.12	0.40
45:UC:174:SER:HB3	45:UC:207:GLU:HG2	2.03	0.40
46:UF:22:GLU:HG2	46:UF:81:PHE:CD1	2.56	0.40
45:UG:363:VAL:HG23	45:UG:366:GLY:HA3	2.03	0.40
46:UH:114:ASP:O	46:UH:117:LEU:HG	2.22	0.40
46:UJ:20:PHE:O	46:UJ:24:ILE:HG12	2.20	0.40
46:UJ:322:SER:HB2	45:UK:222:PRO:O	2.21	0.40
46:UJ:382:ALA:HB2	46:UJ:415:MET:HE1	2.04	0.40
45:UK:2:ARG:HH22	46:UL:70:PRO:CD	2.31	0.40
46:UL:242:PHE:HA	46:UL:243:PRO:HD3	1.95	0.40
46:UN:24:ILE:HG21	46:UN:50:TYR:HD2	1.85	0.40
46:VD:318:ARG:O	46:VD:363:MET:HA	2.21	0.40
45:VE:195:LEU:HD12	45:VE:266:HIS:HE2	1.87	0.40
45:VE:220:GLU:C	45:VE:222:PRO:HD3	2.46	0.40
45:VE:330:ALA:O	45:VE:334:THR:HG23	2.21	0.40
46:VF:119:VAL:O	46:VF:122:LYS:HG2	2.20	0.40
46:VF:181:GLU:HB2	46:VF:182:PRO:HD3	2.04	0.40
45:VG:88:HIS:CE1	45:VG:90:GLU:HG3	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VH:200:MET:HG2	46:VH:268:ILE:CG2	2.52	0.40
46:VH:276:ARG:C	46:VH:276:ARG:HD3	2.46	0.40
46:VH:318:ARG:HH11	46:VH:358:PRO:HG3	1.86	0.40
45:VK:31:GLN:HB2	45:VK:33:ASP:OD1	2.21	0.40
45:VK:46:ASP:OD1	45:VK:47:ASP:N	2.53	0.40
45:VK:224:TYR:HE2	46:VL:246:LEU:HD11	1.86	0.40
45:VK:239:THR:HG23	45:VK:243:ARG:HE	1.87	0.40
45:VK:434:GLU:O	45:VK:437:ILE:HG12	2.21	0.40
46:VN:389:PHE:CZ	46:VN:405:GLU:HG2	2.56	0.40
46:WB:48:ASN:N	46:WB:48:ASN:OD1	2.54	0.40
46:WB:101:TRP:CE3	46:WB:187:LEU:HD13	2.56	0.40
46:WB:106:TYR:CD2	46:WB:403:MET:HE1	2.57	0.40
46:WB:133:PHE:CD2	46:WB:164:MET:HE1	2.56	0.40
45:WC:153:LEU:HD13	45:WC:153:LEU:HA	1.89	0.40
45:WC:207:GLU:O	45:WC:210:TYR:HB2	2.21	0.40
45:WC:297:GLU:OE2	45:WC:300:ASN:N	2.54	0.40
46:WJ:24:ILE:HG21	46:WJ:50:TYR:HD2	1.86	0.40
46:WJ:284:LEU:HD23	46:WJ:284:LEU:H	1.87	0.40
46:WL:44:LEU:HD22	46:WL:47:ILE:HD13	2.04	0.40
46:WL:210:ILE:HD11	46:WL:299:MET:O	2.21	0.40
45:WM:268:MET:HE2	45:WM:378:ILE:HG23	2.03	0.40
46:WN:130:LEU:HD21	46:WN:133:PHE:CZ	2.56	0.40
4:0D:45:ILE:N	4:0D:46:PRO:HD3	2.37	0.40
4:0D:74:GLN:HG3	4:0D:76:VAL:HG13	2.03	0.40
5:0E:181:PHE:HA	5:0E:184:VAL:HG12	2.03	0.40
6:0F:75:ARG:HG2	46:ED:359:LYS:NZ	2.36	0.40
6:0F:206:LYS:O	6:0F:206:LYS:HG2	2.21	0.40
9:0N:212:ILE:HB	9:0N:213:PRO:HD3	2.04	0.40
10:0Q:84:LYS:HE3	11:0S:316:CYS:O	2.21	0.40
13:0U:326:ILE:HD11	13:0U:336:PHE:HB2	2.04	0.40
13:0U:414:THR:HG22	13:0U:419:ARG:O	2.22	0.40
16:1B:324:ASP:HB3	16:1B:365:PHE:CE1	2.56	0.40
4:1D:177:THR:HG23	46:EF:45:GLU:O	2.21	0.40
8:1H:60:ARG:NH2	46:HN:31:ASP:HB2	2.37	0.40
8:1H:139:ARG:CZ	45:HI:370:LYS:O	2.69	0.40
18:1I:193:GLN:HA	18:1I:194:PRO:HD3	1.97	0.40
19:1J:79:LYS:HA	45:HC:57:GLY:HA3	2.03	0.40
21:1L:409:ILE:HA	21:1L:436:PHE:CE2	2.56	0.40
22:1M:183:ARG:O	22:1M:187:PRO:HG3	2.21	0.40
9:1N:329:LYS:O	9:1N:333:LEU:HD23	2.22	0.40
25:1R:70:THR:HG22	46:MD:320:ARG:NE	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:1R:100:LEU:O	25:1R:127:PHE:N	2.43	0.40
25:1R:192:ILE:H	25:1R:192:ILE:HD12	1.87	0.40
25:1R:306:LYS:N	25:1R:320:ASN:O	2.38	0.40
11:1S:146:LYS:HB3	11:1S:157:ILE:HG13	2.02	0.40
12:1T:48:THR:HG21	12:1T:168:HIS:NE2	2.35	0.40
12:1T:224:LYS:HE3	12:1T:224:LYS:HB3	1.92	0.40
13:1U:289:ASP:OD1	13:1U:289:ASP:C	2.64	0.40
26:1W:85:ILE:HD13	45:LE:282:TYR:HD1	1.87	0.40
26:1W:151:ARG:HB3	26:1W:151:ARG:CZ	2.52	0.40
15:1X:102:GLU:O	15:1X:106:LEU:HD23	2.22	0.40
16:2B:252:PHE:O	16:2B:256:LEU:HD23	2.21	0.40
27:2C:19:PHE:CE2	27:2C:95:ILE:HD12	2.56	0.40
27:2C:126:SER:O	27:2C:130:ARG:NE	2.48	0.40
27:2C:127:LEU:HD11	27:2C:170:PHE:HE1	1.87	0.40
31:2I:63:LYS:HA	31:2I:63:LYS:HD3	1.92	0.40
31:2I:206:GLN:OE1	31:2I:206:GLN:N	2.49	0.40
9:2N:192:LEU:HD23	9:2N:196:MET:HE3	2.03	0.40
23:2O:444:ASN:O	23:2O:448:GLU:OE1	2.39	0.40
24:2P:439:HIS:CD2	45:TK:282:TYR:CE2	3.10	0.40
25:2R:92:TRP:HZ3	45:AG:370:LYS:HG3	1.87	0.40
12:2T:139:TYR:HA	12:2T:145:MET:HG3	2.03	0.40
13:2U:147:ASP:HB3	13:2U:166:LEU:HD21	2.04	0.40
13:2U:348:ASN:HB3	13:2U:351:ASN:O	2.22	0.40
13:2U:491:THR:OG1	13:2U:510:SER:HB3	2.21	0.40
15:2X:42:LYS:O	15:2X:46:LYS:HG2	2.21	0.40
16:3B:61:THR:HB	16:3B:65:LEU:CB	2.52	0.40
23:3O:342:ARG:HH12	23:3O:349:ARG:HH22	1.67	0.40
10:3Q:174:GLU:HA	10:3Q:177:LEU:HB3	2.02	0.40
25:3R:410:TRP:HH2	45:EK:372:MET:HB2	1.86	0.40
11:3S:203:LYS:O	11:3S:206:PRO:HD2	2.21	0.40
11:3S:271:ASP:OD1	10:6Q:20:LYS:HD2	2.21	0.40
12:3T:218:PHE:HB3	12:3T:221:ARG:HB2	2.03	0.40
15:3X:18:ILE:HG13	15:3X:18:ILE:O	2.21	0.40
27:4C:26:GLN:HG3	27:4C:30:LEU:HD22	2.03	0.40
27:4C:40:GLU:HA	27:4C:43:ASP:OD2	2.21	0.40
27:4C:108:LEU:HD22	27:4C:167:ARG:NH2	2.36	0.40
27:4C:145:THR:HG22	27:4C:145:THR:O	2.22	0.40
33:4F:161:GLU:OE1	33:4F:161:GLU:N	2.47	0.40
36:5C:59:TYR:OH	46:KJ:405:GLU:OE2	2.22	0.40
37:5F:165:PRO:HD2	37:5F:166:ARG:NH1	2.36	0.40
37:5F:197:LEU:HB2	45:LG:393:HIS:ND1	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:5S:187:LEU:HB2	35:5S:240:MET:HG2	2.02	0.40
35:5S:189:VAL:HG13	35:5S:190:MET:HG3	2.03	0.40
41:6H:346:LYS:HA	41:6H:346:LYS:HD3	1.84	0.40
34:7R:12:LEU:H	34:7R:15:HIS:HB2	1.87	0.40
34:7R:169:ILE:HD12	34:7R:169:ILE:HA	1.89	0.40
34:7R:457:GLU:HB2	34:7R:470:PHE:HB2	2.02	0.40
45:AA:297:GLU:OE1	45:AA:298:PRO:HD2	2.21	0.40
46:AB:315:ALA:HB1	46:AB:317:PHE:CE1	2.56	0.40
45:AC:317:MET:SD	45:AC:332:ILE:HD11	2.61	0.40
46:AD:267:MET:HB3	46:AD:301:CYS:SG	2.62	0.40
46:AF:256:ASN:HD22	46:AF:350:LYS:CD	2.34	0.40
45:AG:222:PRO:HD2	46:AH:324:LYS:HB3	2.02	0.40
45:AG:389:SER:O	45:AG:393:HIS:ND1	2.55	0.40
45:AK:172:TYR:OH	45:AK:191:THR:HG22	2.20	0.40
45:AK:316:SER:HA	45:AK:352:LYS:O	2.21	0.40
46:AL:248:SER:HA	46:AL:252:LYS:HD2	2.03	0.40
45:BA:256:GLN:HB3	46:BD:397:TRP:CH2	2.56	0.40
45:BA:319:TYR:CE1	45:BA:328:VAL:HG22	2.56	0.40
46:BD:103:LYS:HE2	46:BD:103:LYS:HB2	1.71	0.40
45:BE:69:ASP:OD1	45:BE:70:LEU:N	2.54	0.40
46:BF:86:ARG:NE	46:BF:87:PRO:HD2	2.36	0.40
45:BG:317:MET:HE1	45:BG:351:PHE:CD2	2.55	0.40
45:BG:352:LYS:HD2	45:BG:353:VAL:N	2.37	0.40
46:BH:44:LEU:HD23	46:BH:44:LEU:HA	1.93	0.40
45:BI:384:ILE:O	45:BI:387:VAL:HG22	2.21	0.40
45:BK:88:HIS:H	45:BK:91:GLN:NE2	2.19	0.40
45:BM:115:VAL:HG22	45:BM:119:LEU:HD23	2.04	0.40
45:BM:140:SER:OG	47:BM:501:GTP:O2B	2.38	0.40
45:BM:434:GLU:O	45:BM:437:ILE:HG12	2.22	0.40
46:BN:268:ILE:HG22	46:BN:368:VAL:HG23	2.03	0.40
46:CB:289:LEU:CD1	46:CB:363:MET:HE3	2.52	0.40
46:CD:395:LEU:HA	46:CD:398:TYR:HD1	1.86	0.40
46:CF:101:TRP:H	46:CF:398:TYR:HE1	1.68	0.40
45:CG:261:PRO:HA	46:CH:394:PHE:CD1	2.56	0.40
45:CG:433:GLU:OE1	45:CG:433:GLU:HA	2.22	0.40
45:CI:175:PRO:HG2	45:CI:304:LYS:HG2	2.02	0.40
45:CK:69:ASP:OD2	45:CK:75:ILE:HG12	2.21	0.40
45:CM:186:ASN:OD1	45:CM:187:SER:N	2.54	0.40
46:CN:86:ARG:NE	46:CN:87:PRO:HD2	2.22	0.40
46:CN:288:GLU:O	46:CN:291:GLN:HG3	2.21	0.40
46:DD:156:ARG:NH2	46:DD:195:ASN:O	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DD:251:ARG:HH21	45:DE:105:ARG:HD2	1.85	0.40
45:DE:322:ASP:OD1	45:DE:373:ARG:NH1	2.50	0.40
46:DF:118:ASP:OD1	46:DF:118:ASP:C	2.64	0.40
45:DG:411:GLU:N	45:DG:411:GLU:OE1	2.54	0.40
46:DH:217:LEU:O	46:DH:220:PRO:HD3	2.21	0.40
46:DH:313:ALA:HB1	46:DH:367:PHE:CE1	2.56	0.40
45:DI:75:ILE:HD12	45:DI:75:ILE:H	1.86	0.40
46:DJ:113:ILE:HD11	46:DJ:151:LEU:HB2	2.04	0.40
45:DK:80:THR:HA	45:DK:84:ARG:HE	1.87	0.40
45:DK:333:ALA:O	45:DK:337:THR:HG23	2.21	0.40
46:DL:9:GLY:HA3	46:DL:66:MET:SD	2.61	0.40
46:DL:221:THR:O	46:DL:225:LEU:HG	2.22	0.40
45:DM:88:HIS:CE1	45:DM:90:GLU:HG3	2.55	0.40
45:DM:103:PHE:HD2	45:DM:413:MET:HE1	1.84	0.40
45:EC:82:THR:HG23	45:EC:83:TYR:HD1	1.86	0.40
45:EE:151:SER:O	45:EE:155:GLU:HG2	2.22	0.40
46:EF:173:PRO:HG2	46:EF:380:ARG:NE	2.36	0.40
46:EF:200:MET:HG2	46:EF:266:PHE:HB2	2.02	0.40
45:EG:56:THR:HG23	45:EG:58:ALA:H	1.86	0.40
46:EH:151:LEU:O	46:EH:155:VAL:HG13	2.21	0.40
45:EI:14:ILE:HD12	45:EI:67:PHE:CD1	2.55	0.40
45:EI:333:ALA:O	45:EI:337:THR:HG23	2.21	0.40
46:EJ:155:VAL:HA	46:EJ:158:GLU:HG2	2.03	0.40
46:EJ:242:PHE:HA	46:EJ:243:PRO:HD3	1.96	0.40
46:EJ:255:VAL:HG11	45:EK:100:ALA:O	2.21	0.40
46:EL:178:THR:HG22	46:EL:180:VAL:H	1.86	0.40
45:EM:141:VAL:HG11	45:EM:172:TYR:HA	2.03	0.40
45:EM:419:SER:O	45:EM:422:ARG:N	2.53	0.40
45:EM:424:ASP:O	45:EM:428:LEU:HD23	2.21	0.40
46:EN:52:ASN:ND2	46:EN:62:ARG:HG2	2.36	0.40
45:FA:175:PRO:HG3	45:FA:390:ARG:CZ	2.51	0.40
45:FA:200:VAL:HG13	45:FA:268:MET:HE2	2.03	0.40
46:FB:173:PRO:HG2	46:FB:380:ARG:HD3	2.04	0.40
45:FC:30:ILE:CD1	45:FC:36:MET:HE1	2.51	0.40
45:FC:231:ILE:O	45:FC:235:ILE:HG12	2.21	0.40
45:FE:37:PRO:O	45:FE:39:ASP:N	2.54	0.40
45:FG:259:LEU:HB3	45:FG:268:MET:CE	2.51	0.40
46:FH:67:ASP:CG	46:FH:68:LEU:H	2.29	0.40
46:FH:101:TRP:HD1	46:FH:145:SER:OG	2.04	0.40
45:FI:287:SER:O	45:FI:291:ILE:HG23	2.22	0.40
45:FI:371:VAL:HG12	45:FI:373:ARG:H	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FJ:287:PRO:HA	46:FJ:290:THR:HG22	2.03	0.40
45:FK:221:ARG:HH21	46:FL:325:GLU:HG2	1.86	0.40
46:FL:4:ILE:HD11	46:FL:50:TYR:OH	2.22	0.40
46:FL:36:TYR:O	46:FL:37:HIS:ND1	2.49	0.40
46:FL:372:THR:HA	46:FL:422:TYR:CE1	2.46	0.40
46:FL:404:ASP:OD1	46:FL:406:MET:HB2	2.21	0.40
46:GB:287:PRO:HA	46:GB:290:THR:HG22	2.03	0.40
45:GC:109:THR:N	45:GC:112:LYS:HZ1	2.20	0.40
46:GD:6:HIS:O	46:GD:63:ALA:HA	2.21	0.40
45:GE:17:GLY:HA2	45:GE:20:CYS:SG	2.61	0.40
46:GF:201:VAL:HG22	46:GF:266:PHE:O	2.22	0.40
46:GH:201:VAL:HG22	46:GH:266:PHE:O	2.21	0.40
45:GI:265:ILE:HG23	45:GI:432:TYR:OH	2.21	0.40
45:GK:71:GLU:OE2	45:GK:98:ASP:N	2.55	0.40
46:GL:289:LEU:HD23	46:GL:289:LEU:HA	1.77	0.40
45:HA:55:GLU:HG3	45:HA:57:GLY:H	1.87	0.40
45:HA:288:VAL:HA	45:HA:291:ILE:HG12	2.02	0.40
45:HA:342:GLN:N	45:HA:342:GLN:OE1	2.55	0.40
46:HB:52:ASN:OD1	46:HB:53:GLU:N	2.55	0.40
46:HB:91:VAL:HG21	46:HB:116:VAL:HB	2.03	0.40
46:HB:214:THR:HG23	46:HB:215:LEU:HD22	2.02	0.40
45:HE:178:SER:HB2	45:HE:183:GLU:OE1	2.21	0.40
45:HG:223:THR:HG23	45:HG:225:THR:H	1.87	0.40
46:HH:48:ASN:O	46:HH:62:ARG:NH1	2.53	0.40
46:HH:167:PHE:CE1	46:HH:200:MET:HE3	2.56	0.40
46:HJ:21:TRP:CZ2	46:HJ:63:ALA:HB2	2.56	0.40
46:HJ:260:PHE:HB2	46:HJ:263:LEU:HD13	2.02	0.40
45:HM:108:TYR:HA	45:HM:112:LYS:HE2	2.03	0.40
46:HN:20:PHE:O	46:HN:24:ILE:HG12	2.21	0.40
46:HN:329:GLN:O	46:HN:333:VAL:HG23	2.21	0.40
45:IA:174:SER:HB3	45:IA:207:GLU:OE1	2.20	0.40
45:IA:430:LYS:O	45:IA:433:GLU:HG2	2.21	0.40
46:IB:44:LEU:HD23	46:IB:44:LEU:HA	1.93	0.40
45:IC:210:TYR:HE1	45:IC:227:LEU:HD21	1.87	0.40
46:ID:375:GLN:OE1	46:ID:423:GLN:HB3	2.21	0.40
45:IE:256:GLN:H	45:IE:256:GLN:CD	2.26	0.40
45:IG:102:ASN:ND2	45:IG:407:TRP:O	2.51	0.40
46:IH:383:GLU:HA	46:IH:383:GLU:OE2	2.21	0.40
46:IN:3:GLU:OE2	46:IN:127:CYS:HB2	2.22	0.40
45:JA:1:MET:O	45:JA:131:GLY:HA3	2.21	0.40
45:JC:19:ALA:HA	45:JC:22:GLU:HG2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JH:321:MET:SD	46:JH:321:MET:N	2.95	0.40
46:JH:391:ARG:HA	46:JH:391:ARG:HD2	1.86	0.40
45:JI:254:GLU:O	45:JI:255:PHE:HD2	2.04	0.40
45:JK:215:ARG:NH2	45:JK:299:ALA:O	2.53	0.40
45:JM:73:THR:O	45:JM:77:GLU:HB2	2.21	0.40
45:KA:71:GLU:HA	45:KA:72:PRO:HD3	1.89	0.40
46:KB:12:CYS:O	46:KB:16:ILE:HG12	2.21	0.40
46:KB:238:CYS:CB	46:KB:318:ARG:HD3	2.51	0.40
46:KB:267:MET:HE1	46:KB:301:CYS:CB	2.49	0.40
45:KC:55:GLU:OE1	45:KC:61:HIS:NE2	2.54	0.40
45:KC:208:ALA:O	45:KC:212:ILE:HG12	2.21	0.40
45:KG:213:CYS:SG	45:KG:222:PRO:HG3	2.61	0.40
45:KG:243:ARG:HG3	45:KG:244:PHE:CE2	2.57	0.40
46:KH:295:ASP:OD2	46:KH:297:LYS:HG2	2.21	0.40
46:KJ:3:GLU:OE1	46:KJ:128:ASP:N	2.54	0.40
46:KL:113:ILE:HA	46:KL:116:VAL:HG12	2.04	0.40
45:KM:174:SER:HB3	45:KM:177:VAL:O	2.21	0.40
45:KM:211:ASP:O	45:KM:214:ARG:HG3	2.22	0.40
45:KM:265:ILE:HG22	45:KM:432:TYR:CE1	2.55	0.40
45:LA:174:SER:HB2	45:LA:177:VAL:O	2.21	0.40
45:LA:178:SER:HB2	46:LB:347:ASN:ND2	2.36	0.40
45:LA:395:PHE:CD2	45:LA:422:ARG:HD3	2.56	0.40
45:LC:75:ILE:O	45:LC:79:ARG:HG2	2.22	0.40
45:LC:298:PRO:HA	45:LC:301:MET:HG2	2.03	0.40
45:LE:326:LYS:HD3	46:LH:212:PHE:HZ	1.87	0.40
46:LF:229:VAL:O	46:LF:233:MET:HG3	2.21	0.40
45:LG:2:ARG:HH22	46:LJ:71:GLY:CA	2.33	0.40
45:LG:217:LEU:HD12	45:LG:367:ASP:HB3	2.04	0.40
45:LG:220:GLU:H	45:LG:220:GLU:CD	2.30	0.40
45:LG:430:LYS:O	45:LG:433:GLU:HG3	2.21	0.40
46:LH:171:PRO:HB2	46:LH:181:GLU:OE1	2.21	0.40
45:LI:21:TRP:CH2	45:LI:63:PRO:HB3	2.57	0.40
45:LI:68:LEU:HD11	45:LI:118:CYS:SG	2.61	0.40
45:LI:108:TYR:CD2	45:LI:413:MET:HB2	2.56	0.40
46:LJ:73:MET:HA	46:LJ:76:VAL:HG12	2.03	0.40
46:LJ:174:LYS:HE2	46:LJ:174:LYS:HB2	1.92	0.40
45:LK:348:PRO:HD2	46:LN:388:MET:HE3	2.03	0.40
46:LN:69:GLU:HA	46:LN:70:PRO:HD3	1.86	0.40
46:LN:318:ARG:HH11	46:LN:318:ARG:HG2	1.86	0.40
46:MF:8:GLN:HE21	46:MF:65:LEU:CD1	2.34	0.40
46:MH:3:GLU:HG3	46:MH:49:VAL:HA	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:MH:183:TYR:HB3	46:MH:398:TYR:HE2	1.87	0.40
45:MI:102:ASN:HD22	45:MI:105:ARG:HG3	1.87	0.40
45:MI:105:ARG:NH1	46:MJ:251:ARG:HD3	2.36	0.40
45:MI:178:SER:HB2	45:MI:183:GLU:OE1	2.20	0.40
45:MI:289:ALA:O	45:MI:292:THR:HG22	2.21	0.40
46:MJ:11:GLN:NE2	49:MJ:501:GDP:O1A	2.55	0.40
46:MJ:12:CYS:O	46:MJ:16:ILE:HG12	2.21	0.40
46:MJ:238:CYS:SG	46:MJ:318:ARG:HD2	2.62	0.40
45:MK:222:PRO:HD2	46:ML:324:LYS:HD3	2.03	0.40
45:MM:191:THR:HA	45:MM:194:LEU:HG	2.02	0.40
45:MM:434:GLU:O	45:MM:437:ILE:HG22	2.21	0.40
46:MN:221:THR:HG23	46:MN:224:ASP:H	1.86	0.40
46:MN:330:MET:HE2	46:MN:349:ILE:HG21	2.02	0.40
45:NA:132:LEU:HD22	45:NA:164:LYS:HE2	2.03	0.40
45:NA:185:TYR:O	45:NA:189:LEU:HG	2.22	0.40
45:NA:316:SER:CB	45:NA:352:LYS:HB3	2.50	0.40
45:NC:177:VAL:HB	46:ND:327:ASP:CG	2.47	0.40
45:NE:89:PRO:CG	45:OE:280:LYS:HZ3	2.32	0.40
45:NE:348:PRO:HG2	46:NH:388:MET:HE3	2.02	0.40
46:NF:3:GLU:HB2	46:NF:62:ARG:NH2	2.36	0.40
45:NG:151:SER:O	45:NG:155:GLU:HG2	2.21	0.40
45:NG:288:VAL:HA	45:NG:291:ILE:HG12	2.03	0.40
46:NH:268:ILE:HG22	46:NH:368:VAL:HG22	2.04	0.40
45:NI:88:HIS:ND1	45:NI:90:GLU:HG2	2.35	0.40
45:NK:8:HIS:CD2	45:NK:138:PHE:HD2	2.39	0.40
45:NK:178:SER:HB3	46:NL:347:ASN:ND2	2.36	0.40
45:NK:180:ALA:HA	46:NL:350:LYS:HZ3	1.84	0.40
45:NK:262:TYR:OH	46:NN:391:ARG:O	2.27	0.40
45:NK:407:TRP:CZ3	46:NL:255:VAL:HA	2.56	0.40
45:NK:417:GLU:OE1	45:NK:417:GLU:N	2.50	0.40
46:NL:314:SER:OG	46:NL:368:VAL:HB	2.20	0.40
46:NN:64:ILE:HG13	46:NN:89:ASN:ND2	2.36	0.40
46:NN:310:TYR:CD2	46:NN:371:SER:HB2	2.57	0.40
45:OA:387:VAL:O	45:OA:391:LEU:HD23	2.22	0.40
46:OD:217:LEU:HD23	46:OD:219:THR:H	1.85	0.40
46:OF:265:PHE:HE2	46:OF:418:LEU:HD21	1.86	0.40
46:OF:392:LYS:HA	46:OF:395:LEU:HD12	2.04	0.40
45:OI:10:GLY:O	45:OI:14:ILE:HG12	2.20	0.40
45:OI:222:PRO:HG2	46:OJ:324:LYS:CD	2.51	0.40
46:OJ:257:LEU:HD21	46:OJ:314:SER:HB3	2.03	0.40
45:OK:3:GLU:HG3	45:OK:129:CYS:SG	2.62	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OL:20:PHE:O	46:OL:24:ILE:HG12	2.20	0.40
46:OL:35:THR:HG21	46:OL:37:HIS:HE1	1.86	0.40
46:OL:257:LEU:O	46:OL:259:PRO:HD3	2.21	0.40
45:PA:331:SER:O	45:PA:335:ILE:HG12	2.20	0.40
45:PC:224:TYR:HA	45:PC:227:LEU:HD13	2.03	0.40
45:PG:167:LEU:HG	45:PG:200:VAL:HB	2.04	0.40
46:PH:69:GLU:HA	46:PH:69:GLU:OE2	2.21	0.40
46:PJ:174:LYS:NZ	46:PJ:380:ARG:HH11	2.19	0.40
46:PL:153:SER:HA	46:PL:195:ASN:ND2	2.35	0.40
46:PL:361:LEU:HD23	46:PL:361:LEU:HA	1.93	0.40
46:PL:396:HIS:CE1	46:PL:397:TRP:CD1	3.09	0.40
45:QA:135:PHE:HB2	45:QA:166:LYS:HG2	2.02	0.40
45:QA:280:LYS:HZ3	45:QA:283:HIS:HB2	1.87	0.40
46:QB:382:ALA:HB2	46:QB:415:MET:HE3	2.03	0.40
45:QC:105:ARG:O	45:QC:110:ILE:HG12	2.21	0.40
46:QD:345:ILE:HG23	46:QD:345:ILE:O	2.21	0.40
46:QD:382:ALA:HB2	46:QD:415:MET:HE3	2.03	0.40
45:QG:75:ILE:H	45:QG:75:ILE:HD12	1.85	0.40
45:QG:88:HIS:CD2	45:RG:280:LYS:HZ1	2.40	0.40
45:QG:342:GLN:N	45:QG:342:GLN:OE1	2.55	0.40
46:QH:153:SER:O	46:QH:157:GLU:OE1	2.39	0.40
46:QH:392:LYS:C	46:QH:395:LEU:HD13	2.46	0.40
45:QI:27:GLU:OE2	45:QI:28:HIS:CE1	2.75	0.40
45:QI:439:THR:HB	46:QJ:390:ARG:NH1	2.37	0.40
45:QK:47:ASP:HB3	45:QK:48:ALA:H	1.71	0.40
45:QK:124:LYS:HE2	45:QK:124:LYS:HB2	1.73	0.40
45:QK:244:PHE:HB2	45:QK:356:ASN:ND2	2.35	0.40
46:QL:6:HIS:O	46:QL:63:ALA:HA	2.21	0.40
46:QL:67:ASP:HB3	46:QL:73:MET:HE3	2.03	0.40
46:QL:251:ARG:HH12	45:QM:105:ARG:HD2	1.85	0.40
45:QM:88:HIS:ND1	45:RM:280:LYS:HE3	2.36	0.40
45:QM:326:LYS:HE2	46:QN:220:PRO:HD2	2.02	0.40
46:QN:198:GLU:HG2	46:QN:266:PHE:HE2	1.86	0.40
45:RA:141:VAL:HG22	45:RA:187:SER:HA	2.03	0.40
46:RD:116:VAL:HA	46:RD:119:VAL:HG12	2.02	0.40
46:RF:258:ILE:CG1	45:RG:407:TRP:HZ2	2.34	0.40
46:RF:289:LEU:HA	46:RF:289:LEU:HD23	1.86	0.40
45:RG:71:GLU:O	45:RG:71:GLU:HG2	2.21	0.40
45:RG:91:GLN:HB2	45:RG:121:ARG:NH2	2.36	0.40
46:RL:183:TYR:CE1	46:RL:388:MET:HE3	2.56	0.40
46:RL:379:LYS:CE	46:RL:419:VAL:HG11	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RM:209:ILE:HG12	45:RM:302:MET:HG3	2.02	0.40
46:RN:102:ALA:HB1	46:RN:401:GLU:HB2	2.03	0.40
46:SB:169:VAL:HG22	46:SB:202:ILE:HB	2.03	0.40
46:SD:269:GLY:HA2	46:SD:300:MET:HE1	2.03	0.40
45:SE:229:ARG:NH1	45:SE:368:LEU:HB2	2.36	0.40
46:SF:32:PRO:HA	46:SF:84:LEU:HD11	2.02	0.40
46:SH:91:VAL:HG21	46:SH:116:VAL:HB	2.04	0.40
46:SH:403:MET:HE1	46:SH:408:PHE:CZ	2.57	0.40
45:SI:239:THR:HG23	45:SI:243:ARG:HE	1.87	0.40
45:SI:329:ASN:HB3	46:SJ:175:VAL:HG12	2.02	0.40
45:SK:212:ILE:HD11	45:SK:300:ASN:HA	2.03	0.40
45:SK:234:VAL:O	45:SK:238:LEU:HD23	2.21	0.40
46:SL:390:ARG:HA	46:SL:390:ARG:NE	2.36	0.40
45:TA:260:VAL:HG13	45:TA:265:ILE:O	2.21	0.40
46:TF:153:SER:HB2	46:TF:191:GLN:NE2	2.36	0.40
46:TF:174:LYS:HZ1	46:TF:380:ARG:HH11	1.70	0.40
45:TG:261:PRO:HB3	45:TG:346:TRP:HH2	1.87	0.40
46:TH:152:ILE:HD13	46:TH:164:MET:HE2	2.04	0.40
46:TH:293:MET:CE	46:TH:367:PHE:HB3	2.51	0.40
45:TI:88:HIS:CE1	45:UI:280:LYS:NZ	2.90	0.40
45:TK:262:TYR:HB2	45:TK:265:ILE:HG22	2.04	0.40
45:TK:328:VAL:O	45:TK:332:ILE:HG12	2.22	0.40
45:TM:326:LYS:HD2	46:TN:220:PRO:HD2	2.04	0.40
46:UD:226:ASN:HA	46:UD:229:VAL:HG22	2.04	0.40
45:UE:332:ILE:HD11	45:UE:351:PHE:CG	2.57	0.40
46:UF:141:GLY:HA3	49:UF:501:GDP:O3A	2.21	0.40
46:UH:175:VAL:O	46:UH:175:VAL:HG23	2.22	0.40
46:UH:415:MET:HE1	46:UH:418:LEU:HD23	2.03	0.40
45:UI:55:GLU:HG3	45:UI:57:GLY:H	1.86	0.40
45:UI:387:VAL:O	45:UI:391:LEU:HD23	2.22	0.40
46:UJ:287:PRO:O	46:UJ:288:GLU:C	2.63	0.40
46:UL:139:LEU:HG	46:UL:188:SER:OG	2.21	0.40
46:UL:350:LYS:HG3	45:UM:179:THR:O	2.21	0.40
45:UM:19:ALA:HA	45:UM:22:GLU:OE1	2.21	0.40
45:VA:56:THR:HG23	45:VA:58:ALA:H	1.86	0.40
45:VA:223:THR:HG23	45:VA:225:THR:H	1.87	0.40
46:VB:116:VAL:O	46:VB:120:VAL:HG13	2.21	0.40
46:VB:303:ALA:HB2	46:VB:377:MET:SD	2.62	0.40
46:VB:324:LYS:O	46:VB:328:GLU:HG3	2.21	0.40
46:VD:8:GLN:OE1	46:VD:17:GLY:HA3	2.21	0.40
45:VE:8:HIS:ND1	45:VE:67:PHE:HE2	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VE:200:VAL:HG13	45:VE:268:MET:CE	2.52	0.40
45:VE:270:SER:OG	45:VE:271:SER:N	2.53	0.40
45:VG:221:ARG:HH12	46:VH:324:LYS:HG2	1.83	0.40
45:VG:415:GLU:CD	45:VG:415:GLU:H	2.29	0.40
46:VH:152:ILE:HD13	46:VH:152:ILE:HA	1.89	0.40
45:VI:1:MET:HB3	45:VI:2:ARG:HH12	1.86	0.40
45:VI:88:HIS:HB3	45:VI:91:GLN:HG2	2.04	0.40
45:VI:229:ARG:HH12	45:VI:363:VAL:HG21	1.87	0.40
45:VI:320:ARG:HB2	45:VI:358:GLN:O	2.22	0.40
45:VK:404:PHE:CD1	46:VL:259:PRO:HA	2.56	0.40
46:VL:86:ARG:HD3	46:VL:87:PRO:CD	2.52	0.40
46:VL:172:SER:HA	46:VL:173:PRO:HD3	1.90	0.40
46:VL:267:MET:HG3	46:VL:301:CYS:SG	2.61	0.40
46:VL:403:MET:HE2	46:VL:403:MET:N	2.35	0.40
45:VM:14:ILE:HD11	45:VM:69:ASP:HB2	2.03	0.40
45:VM:331:SER:O	45:VM:335:ILE:HG12	2.21	0.40
46:VN:207:LEU:HD13	46:VN:207:LEU:HA	1.90	0.40
46:VN:287:PRO:HG3	46:VN:329:GLN:NE2	2.36	0.40
45:WA:76:ASP:HA	45:WA:79:ARG:HG2	2.03	0.40
45:WA:98:ASP:OD2	45:WA:99:ALA:N	2.55	0.40
45:WC:19:ALA:HA	45:WC:22:GLU:OE1	2.20	0.40
45:WE:174:SER:HA	45:WE:205:ASP:OD2	2.22	0.40
46:WF:207:LEU:CB	46:WF:225:LEU:HD22	2.51	0.40
45:WG:18:ASN:O	45:WG:22:GLU:OE1	2.40	0.40
45:WG:148:GLY:O	45:WG:152:LEU:HD23	2.21	0.40
45:WK:88:HIS:HB3	45:WK:91:GLN:HG2	2.04	0.40
46:WL:28:HIS:C	46:WL:43:GLN:HE21	2.29	0.40
46:WL:313:ALA:HB1	46:WL:367:PHE:HE1	1.86	0.40
45:WM:187:SER:O	45:WM:191:THR:HG23	2.21	0.40
45:WM:401:LYS:NZ	46:WN:344:TRP:HB2	2.36	0.40
45:DC:18:ASN:HD22	45:DC:18:ASN:HA	1.75	0.40
45:DC:27:GLU:CD	45:DC:243:ARG:HH12	2.28	0.40
2:0B:229:GLU:CD	2:0B:231:LYS:H	2.28	0.40
4:0D:219:ASN:O	4:0D:222:ASN:ND2	2.54	0.40
6:0F:19:TRP:HZ2	45:EE:282:TYR:CZ	2.39	0.40
13:0U:81:GLN:OE1	13:0U:102:LYS:HE2	2.20	0.40
15:0X:46:LYS:O	15:0X:49:ILE:HB	2.21	0.40
1:1A:98:THR:HA	46:MF:26:ASP:OD1	2.22	0.40
16:1B:317:ILE:HD11	16:1B:367:LEU:HD22	2.03	0.40
3:1C:57:TYR:O	3:1C:61:THR:HG23	2.20	0.40
3:1C:105:VAL:O	3:1C:108:GLU:HG3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:1E:13:ARG:HH12	5:1E:90:GLY:N	2.19	0.40
17:1F:41:TYR:O	17:1F:45:VAL:HG23	2.21	0.40
17:1F:154:PHE:HD1	46:GL:118:ASP:HB3	1.87	0.40
8:1H:221:TYR:HE1	46:HH:362:LYS:NZ	2.19	0.40
8:1H:430:ASN:ND2	8:1H:432:ASN:O	2.54	0.40
18:1I:43:HIS:CE1	18:1I:44:ASN:OD1	2.75	0.40
18:1I:203:ASN:OD1	18:1I:203:ASN:N	2.54	0.40
19:1J:201:LYS:O	45:IG:372:MET:HE3	2.22	0.40
20:1K:31:ARG:HD3	20:1K:31:ARG:HA	1.78	0.40
20:1K:245:TRP:CH2	46:GB:279:GLN:HG2	2.56	0.40
21:1L:61:VAL:O	21:1L:96:VAL:HG22	2.22	0.40
21:1L:105:ILE:HD12	21:1L:105:ILE:HA	1.90	0.40
21:1L:643:ARG:HD3	21:1L:643:ARG:H	1.85	0.40
21:1L:874:LYS:NZ	46:BD:55:THR:HA	2.37	0.40
9:1N:128:ASP:OD2	9:1N:129:ASP:N	2.54	0.40
9:1N:363:ASP:O	9:1N:367:VAL:HG23	2.20	0.40
23:1O:278:ARG:NH2	45:UA:219:ILE:HG23	2.35	0.40
24:1P:173:GLU:O	24:1P:176:LYS:NZ	2.47	0.40
10:1Q:173:SER:N	10:1Q:176:GLU:OE2	2.37	0.40
13:1U:489:GLU:HG2	13:1U:491:THR:HG22	2.03	0.40
13:1U:495:GLN:OE1	13:1U:497:LEU:HD21	2.22	0.40
26:1W:85:ILE:O	26:1W:89:ILE:HG12	2.22	0.40
15:1X:6:GLU:HB3	15:1X:10:ARG:NH1	2.25	0.40
1:2A:112:LEU:HG	25:2R:40:ASN:OD1	2.22	0.40
16:2B:130:HIS:HB3	16:2B:133:VAL:HG22	2.03	0.40
16:2B:218:ILE:HG13	16:2B:259:PHE:CE2	2.57	0.40
4:2D:209:LYS:HE3	34:5R:433:GLN:CD	2.46	0.40
30:2H:208:ASN:OD1	30:2H:209:ARG:N	2.54	0.40
21:2L:643:ARG:HB3	46:CL:362:LYS:NZ	2.36	0.40
22:2M:244:ILE:HG22	22:2M:250:VAL:HG12	2.03	0.40
23:2O:178:ASP:HA	23:2O:181:MET:HE2	2.03	0.40
23:2O:254:LYS:C	23:2O:258:LYS:HZ2	2.29	0.40
24:2P:332:LYS:HD3	24:2P:332:LYS:HA	1.95	0.40
24:2P:354:LYS:HZ3	46:TN:359:LYS:CG	2.27	0.40
24:2P:390:LYS:HA	24:2P:393:GLU:OE1	2.22	0.40
10:2Q:15:TYR:OH	10:2Q:17:ILE:HD12	2.21	0.40
25:2R:210:LEU:HD12	25:2R:211:PRO:HD2	2.02	0.40
25:2R:259:LEU:HD23	25:2R:275:LEU:HG	2.04	0.40
25:2R:299:LEU:HA	46:CH:78:ALA:O	2.22	0.40
11:2S:87:ALA:H	13:2U:309:LYS:HZ2	1.69	0.40
11:2S:178:LEU:HG	11:2S:230:MET:HE1	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:2T:250:LEU:HD23	12:2T:250:LEU:H	1.86	0.40
12:2T:277:THR:O	13:2U:41:ARG:NH2	2.54	0.40
13:2U:357:ARG:NH1	13:2U:359:GLN:HB2	2.37	0.40
14:2V:253:LYS:O	14:2V:256:GLU:HG3	2.21	0.40
26:2W:241:MET:CE	46:LN:280:GLN:HG3	2.52	0.40
32:3D:67:LYS:HA	32:3D:67:LYS:HD3	1.84	0.40
5:3E:114:PHE:CD1	5:3E:160:GLN:HB3	2.57	0.40
21:3L:198:ILE:HD11	21:3L:203:PRO:HA	2.03	0.40
23:3O:235:MET:HE1	46:TN:55:THR:O	2.21	0.40
23:3O:404:GLN:O	23:3O:407:GLU:HG3	2.22	0.40
25:3R:11:PHE:HD1	15:3X:81:ARG:NH2	2.20	0.40
11:3S:8:GLN:OE1	11:3S:191:LEU:HG	2.21	0.40
12:3T:81:PRO:HB3	45:MK:412:GLY:HA3	2.04	0.40
12:3T:269:LYS:HD3	13:3U:304:TRP:CZ2	2.55	0.40
13:3U:354:GLU:OE1	13:3U:354:GLU:HA	2.22	0.40
13:3U:496:VAL:O	13:3U:497:LEU:HD23	2.21	0.40
14:3V:115:ASN:OD1	14:3V:116:VAL:N	2.51	0.40
14:3V:122:LYS:CE	46:LD:390:ARG:HH12	2.31	0.40
27:4C:203:LEU:O	27:4C:268:ARG:NH2	2.52	0.40
34:4R:331:PRO:O	34:4R:360:TYR:OH	2.40	0.40
34:4R:466:TRP:CH2	46:EF:73:MET:HE1	2.52	0.40
35:4S:98:TYR:CZ	35:4S:131:GLY:HA2	2.57	0.40
36:5B:23:LEU:O	36:5B:59:TYR:HA	2.21	0.40
40:6G:191:ASP:HA	40:6G:194:VAL:HG22	2.03	0.40
34:6R:85:TRP:CD2	45:AM:372:MET:HE3	2.56	0.40
34:6R:212:GLN:HE22	34:6R:216:LYS:HG3	1.87	0.40
34:7R:261:LEU:HD12	34:7R:272:ASN:O	2.22	0.40
34:7R:341:ARG:HB3	34:7R:341:ARG:NH1	2.36	0.40
45:AC:21:TRP:HZ2	45:AC:65:ALA:HB2	1.87	0.40
46:AD:318:ARG:HD2	46:AD:354:CYS:HB3	2.04	0.40
45:AE:386:GLU:O	45:AE:390:ARG:HG3	2.22	0.40
46:AF:49:VAL:HG12	46:AF:50:TYR:CD1	2.57	0.40
45:AG:417:GLU:N	45:AG:417:GLU:OE1	2.53	0.40
46:AJ:381:VAL:HG23	46:AJ:415:MET:HE1	2.03	0.40
46:AL:8:GLN:OE1	46:AL:14:ASN:HA	2.22	0.40
45:AM:11:GLN:HB3	47:AM:501:GTP:O2A	2.22	0.40
45:AM:109:THR:HG21	45:AM:411:GLU:HB3	2.04	0.40
46:AN:21:TRP:HA	46:AN:24:ILE:HG22	2.03	0.40
46:AN:26:ASP:OD1	46:AN:359:LYS:NZ	2.51	0.40
46:AN:313:ALA:HB1	46:AN:367:PHE:HE1	1.85	0.40
45:BA:271:SER:HB2	45:BA:377:MET:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BB:105:HIS:CE1	46:BB:150:LEU:HD12	2.57	0.40
46:BB:183:TYR:CZ	46:BB:388:MET:HE3	2.57	0.40
45:BE:224:TYR:CE1	47:BE:501:GTP:C6	3.10	0.40
45:BE:257:THR:HA	46:BH:397:TRP:CZ3	2.57	0.40
45:BG:237:SER:HA	45:BG:320:ARG:HH11	1.86	0.40
45:BI:156:ARG:HA	45:BI:156:ARG:HD3	1.81	0.40
45:BI:200:VAL:HG13	45:BI:268:MET:SD	2.62	0.40
45:BI:224:TYR:CD2	46:BJ:323:THR:HG21	2.56	0.40
45:BI:239:THR:HG23	45:BI:243:ARG:NH1	2.36	0.40
46:BJ:326:VAL:O	46:BJ:330:MET:HG2	2.21	0.40
45:BK:9:VAL:HG13	45:BK:139:ASN:HB3	2.03	0.40
45:BK:326:LYS:HE3	46:BN:220:PRO:CG	2.42	0.40
45:BK:331:SER:O	45:BK:334:THR:OG1	2.38	0.40
45:BK:342:GLN:OE1	45:BK:342:GLN:N	2.54	0.40
46:BL:289:LEU:HD23	46:BL:289:LEU:HA	1.88	0.40
45:CA:352:LYS:HD2	45:CA:352:LYS:HA	1.91	0.40
46:CB:139:LEU:HB3	46:CB:185:ALA:HA	2.04	0.40
45:CC:2:ARG:HG3	45:CC:133:GLN:NE2	2.36	0.40
45:CC:3:GLU:HB2	45:CC:129:CYS:SG	2.62	0.40
46:CD:164:MET:SD	46:CD:196:ALA:HA	2.62	0.40
46:CF:164:MET:O	46:CF:197:ASP:HB2	2.22	0.40
46:CF:179:VAL:HG23	45:CE:349:THR:O	2.22	0.40
45:CG:88:HIS:CD2	45:CG:90:GLU:HG3	2.56	0.40
46:CJ:137:HIS:HE2	46:CJ:168:SER:HG	1.62	0.40
46:CL:321:MET:HE3	46:CL:363:MET:HG2	2.04	0.40
46:DD:386:THR:O	46:DD:390:ARG:HG2	2.22	0.40
45:DE:138:PHE:CE2	45:DE:169:PHE:HD1	2.40	0.40
45:DE:141:VAL:HG11	45:DE:172:TYR:HA	2.03	0.40
45:DG:133:GLN:C	45:DG:252:ILE:HD11	2.46	0.40
45:DG:239:THR:HG23	45:DG:243:ARG:HH21	1.87	0.40
46:DH:8:GLN:HE21	46:DH:65:LEU:CD2	2.34	0.40
46:DH:407:GLU:O	46:DH:410:GLU:HG2	2.22	0.40
46:DJ:134:GLN:HG3	46:DJ:165:GLU:HB3	2.04	0.40
46:DL:182:PRO:O	46:DL:186:THR:HG23	2.21	0.40
45:DM:124:LYS:HE2	45:DM:124:LYS:HB2	1.88	0.40
46:ED:105:HIS:CE1	46:ED:150:LEU:HD12	2.57	0.40
46:ED:233:MET:O	46:ED:236:VAL:HG12	2.21	0.40
46:ED:252:LYS:HA	45:EE:100:ALA:HB1	2.02	0.40
45:EE:238:LEU:HA	45:EE:318:MET:HE1	2.03	0.40
46:EH:224:ASP:O	46:EH:228:LEU:HD23	2.22	0.40
45:EI:212:ILE:CD1	45:EI:300:ASN:HA	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EK:5:ILE:HB	45:EK:135:PHE:CD1	2.57	0.40
45:FA:136:LEU:HD21	45:FA:138:PHE:CZ	2.56	0.40
45:FG:102:ASN:OD1	45:FG:105:ARG:N	2.44	0.40
45:FI:272:TYR:CD1	45:FI:376:CYS:HB2	2.56	0.40
45:FI:434:GLU:O	45:FI:437:ILE:HG12	2.21	0.40
46:FJ:372:THR:HA	46:FJ:422:TYR:CE2	2.56	0.40
45:FK:188:ILE:HG22	45:FK:421:ALA:HB1	2.03	0.40
45:FK:238:LEU:HD13	45:FK:318:MET:HE1	2.04	0.40
46:FN:5:VAL:HG22	46:FN:62:ARG:HD3	2.03	0.40
46:FN:248:SER:HA	46:FN:252:LYS:HD2	2.03	0.40
45:GA:141:VAL:HG22	45:GA:187:SER:HA	2.02	0.40
45:GA:185:TYR:HE2	45:GA:404:PHE:HB2	1.86	0.40
46:GH:163:ILE:HD13	46:GH:251:ARG:HD2	2.03	0.40
46:GH:208:TYR:OH	46:GH:225:LEU:HD11	2.22	0.40
46:GJ:317:PHE:HD2	46:GJ:321:MET:HE1	1.87	0.40
45:GK:311:LYS:N	45:GK:382:THR:OG1	2.53	0.40
45:GK:356:ASN:OD1	45:GK:357:TYR:N	2.55	0.40
45:HC:10:GLY:O	45:HC:14:ILE:HG12	2.22	0.40
45:HC:171:ILE:HG23	45:HC:204:LEU:O	2.21	0.40
45:HC:425:LEU:HA	45:HC:425:LEU:HD23	1.79	0.40
46:HF:258:ILE:HG13	46:HF:258:ILE:O	2.21	0.40
45:HG:174:SER:HB2	45:HG:177:VAL:HB	2.03	0.40
46:HJ:295:ASP:OD2	46:HJ:296:ALA:N	2.55	0.40
45:HK:328:VAL:HG11	45:HK:353:VAL:HG21	2.02	0.40
46:HL:232:ALA:HB1	46:HL:268:ILE:HD12	2.03	0.40
45:HM:141:VAL:HG12	45:HM:171:ILE:O	2.22	0.40
46:ID:116:VAL:HA	46:ID:119:VAL:HG12	2.03	0.40
45:IE:143:GLY:HA3	47:IE:501:GTP:O2B	2.20	0.40
45:IG:331:SER:O	45:IG:334:THR:OG1	2.36	0.40
46:IH:350:LYS:HB2	46:IH:350:LYS:HE2	1.70	0.40
46:IH:372:THR:HA	46:IH:422:TYR:CE2	2.56	0.40
45:II:74:VAL:HA	45:II:77:GLU:OE1	2.21	0.40
46:IJ:21:TRP:CZ3	46:IJ:61:PRO:HB3	2.57	0.40
46:IJ:67:ASP:O	46:IJ:92:PHE:HA	2.20	0.40
45:IK:121:ARG:HA	45:IK:121:ARG:NE	2.37	0.40
46:IL:86:ARG:NE	46:IL:89:ASN:OD1	2.29	0.40
46:IL:325:GLU:HA	46:IL:328:GLU:HG2	2.03	0.40
46:IN:293:MET:HE3	46:IN:294:PHE:CE2	2.56	0.40
46:JB:161:ASP:OD1	46:JB:162:ARG:N	2.54	0.40
45:JC:175:PRO:HG3	45:JC:390:ARG:NH2	2.37	0.40
46:JD:108:GLU:HA	46:JD:111:GLU:CG	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JE:88:HIS:HB3	45:JE:91:GLN:HG2	2.03	0.40
45:JG:384:ILE:O	45:JG:387:VAL:HG22	2.22	0.40
46:JH:140:GLY:HA3	46:JH:171:PRO:HG3	2.03	0.40
45:JI:320:ARG:HD3	45:JI:360:PRO:HG3	2.02	0.40
46:JJ:182:PRO:O	46:JJ:186:THR:HG22	2.21	0.40
45:JK:33:ASP:HA	45:JK:85:GLN:HB2	2.04	0.40
45:JK:308:ARG:HH22	45:JK:341:ILE:HA	1.86	0.40
45:JM:121:ARG:HH21	45:JM:124:LYS:HD3	1.86	0.40
46:JN:274:THR:HB	46:JN:282:ARG:HH21	1.86	0.40
46:JN:334:GLN:OE1	46:JN:334:GLN:HA	2.21	0.40
45:KA:98:ASP:OD1	45:KA:99:ALA:N	2.55	0.40
45:KA:407:TRP:HZ2	46:KB:258:ILE:HB	1.87	0.40
46:KB:67:ASP:OD1	46:KB:68:LEU:N	2.51	0.40
46:KB:259:PRO:HG3	46:KB:311:LEU:HD21	2.04	0.40
45:KC:180:ALA:N	45:KC:183:GLU:OE1	2.53	0.40
45:KG:1:MET:HG2	45:KG:131:GLY:HA3	2.03	0.40
45:KG:404:PHE:CE1	46:KH:259:PRO:HA	2.57	0.40
46:KH:2:ARG:C	46:KH:131:GLN:HB2	2.46	0.40
45:KI:27:GLU:HB3	45:KI:361:THR:HG21	2.04	0.40
46:KL:232:ALA:HB2	46:KL:300:MET:HE1	2.03	0.40
45:KM:107:HIS:ND1	45:KM:107:HIS:O	2.54	0.40
45:KM:137:VAL:HG23	45:KM:168:GLY:HA2	2.04	0.40
45:KM:430:LYS:HA	45:KM:430:LYS:HE2	2.03	0.40
46:KN:22:GLU:HG2	46:KN:81:PHE:HD1	1.85	0.40
45:LA:426:ALA:HA	45:LA:429:GLU:OE1	2.22	0.40
45:LG:41:THR:HG22	45:LG:41:THR:O	2.22	0.40
45:LI:36:MET:HB2	45:LI:36:MET:HE2	1.77	0.40
45:LI:55:GLU:OE2	45:LI:61:HIS:NE2	2.54	0.40
45:LK:88:HIS:ND1	45:LK:90:GLU:HG2	2.37	0.40
46:MB:1:MET:O	46:MB:2:ARG:HG2	2.22	0.40
46:MB:178:THR:HG22	46:MB:179:VAL:N	2.35	0.40
45:MC:149:LEU:HD12	45:MC:149:LEU:HA	1.88	0.40
45:MC:275:ILE:HG23	45:MC:368:LEU:HD11	2.03	0.40
46:MD:237:THR:HG23	46:MD:241:ARG:HH21	1.86	0.40
45:ME:36:MET:O	45:ME:37:PRO:C	2.64	0.40
45:ME:370:LYS:O	45:ME:370:LYS:HG3	2.22	0.40
46:MH:293:MET:HG2	46:MH:367:PHE:HB2	2.04	0.40
46:MJ:242:PHE:HB2	46:MJ:354:CYS:SG	2.61	0.40
46:MJ:326:VAL:O	46:MJ:330:MET:HG2	2.22	0.40
45:MK:88:HIS:ND1	45:MK:89:PRO:HD2	2.36	0.40
45:MK:326:LYS:NZ	46:MN:208:TYR:HB3	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ML:73:MET:CE	46:ML:92:PHE:HB3	2.52	0.40
45:MM:141:VAL:HG12	45:MM:171:ILE:O	2.21	0.40
45:MM:179:THR:O	46:MN:350:LYS:HA	2.22	0.40
45:NA:28:HIS:HE2	45:NA:48:ALA:HB3	1.87	0.40
45:NA:37:PRO:HB2	45:NA:39:ASP:OD1	2.22	0.40
46:ND:6:HIS:O	46:ND:63:ALA:HA	2.21	0.40
46:NF:304:ASP:HB3	46:NF:307:HIS:HD1	1.85	0.40
45:NG:49:PHE:O	45:NG:53:PHE:N	2.46	0.40
45:NG:326:LYS:HD3	46:NJ:220:PRO:HD2	2.03	0.40
46:NH:405:GLU:H	46:NH:405:GLU:CD	2.28	0.40
45:NK:276:ILE:HD11	45:NK:283:HIS:ND1	2.36	0.40
46:NL:130:LEU:HD21	46:NL:133:PHE:CE1	2.57	0.40
45:NM:372:MET:N	45:NM:372:MET:SD	2.95	0.40
46:NN:22:GLU:HA	46:NN:25:SER:OG	2.21	0.40
46:NN:175:VAL:HG21	46:NN:204:ASN:HB2	2.03	0.40
45:OA:433:GLU:O	45:OA:437:ILE:HG23	2.21	0.40
46:OB:275:SER:O	46:OB:279:GLN:HG3	2.21	0.40
45:OC:121:ARG:O	45:OC:125:LEU:HD23	2.20	0.40
45:OC:200:VAL:HB	45:OC:268:MET:HE1	2.03	0.40
45:OG:338:LYS:HE2	45:OG:340:THR:HG22	2.04	0.40
45:OG:377:MET:SD	45:OG:379:SER:HB3	2.62	0.40
46:OH:184:ASN:OD1	46:OH:185:ALA:N	2.55	0.40
45:OI:88:HIS:CD2	45:PI:280:LYS:NZ	2.90	0.40
45:OI:196:GLU:OE1	45:OI:196:GLU:N	2.52	0.40
46:OL:132:GLY:CA	46:OL:163:ILE:O	2.69	0.40
46:OL:209:ASP:OD2	46:OL:297:LYS:HE2	2.21	0.40
45:PA:68:LEU:HD21	45:PA:118:CYS:SG	2.62	0.40
45:PA:183:GLU:N	45:PA:184:PRO:HD2	2.36	0.40
45:PC:8:HIS:HB2	45:PC:67:PHE:CD1	2.56	0.40
46:PF:377:MET:HG3	46:PF:380:ARG:NH2	2.35	0.40
45:PG:88:HIS:CE1	45:PG:90:GLU:HG3	2.56	0.40
46:PH:97:ALA:HB3	46:PH:143:THR:HB	2.03	0.40
46:PH:187:LEU:HD21	46:PH:408:PHE:CE2	2.56	0.40
46:PH:188:SER:O	46:PH:192:LEU:HD23	2.21	0.40
46:PH:205:GLU:HG2	46:PH:206:ALA:N	2.35	0.40
45:PI:276:ILE:HD11	45:PI:280:LYS:HG3	2.03	0.40
46:PJ:178:THR:HB	46:PJ:181:GLU:HG3	2.03	0.40
46:PL:94:GLN:HA	46:PL:94:GLN:OE1	2.22	0.40
45:PM:141:VAL:HG11	45:PM:172:TYR:HA	2.02	0.40
46:PN:10:GLY:O	46:PN:14:ASN:ND2	2.54	0.40
46:PN:208:TYR:HA	46:PN:211:CYS:SG	2.61	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PN:326:VAL:O	46:PN:330:MET:HG2	2.22	0.40
46:PN:377:MET:O	46:PN:381:VAL:HG22	2.21	0.40
45:QA:12:GLY:HA2	45:QA:15:GLN:HE21	1.86	0.40
46:QB:147:MET:HA	46:QB:150:LEU:HG	2.03	0.40
46:QD:327:ASP:O	46:QD:330:MET:HG2	2.22	0.40
45:QG:215:ARG:NH2	45:QG:299:ALA:O	2.52	0.40
46:QH:198:GLU:OE2	46:QH:254:ALA:HA	2.21	0.40
46:QH:238:CYS:SG	46:QH:239:CYS:N	2.95	0.40
46:QH:346:PRO:HG2	45:QI:394:LYS:HZ3	1.87	0.40
45:QI:136:LEU:HD13	45:QI:167:LEU:HB2	2.04	0.40
45:QI:242:LEU:HD11	45:QI:251:ASP:OD1	2.22	0.40
45:QM:189:LEU:HD11	45:QM:418:PHE:CE1	2.57	0.40
46:QN:164:MET:HE3	46:QN:164:MET:HB3	1.93	0.40
45:RA:64:ARG:HG3	45:RA:125:LEU:HD22	2.03	0.40
46:RB:6:HIS:O	46:RB:63:ALA:HA	2.22	0.40
46:RB:222:TYR:O	46:RB:226:ASN:ND2	2.40	0.40
45:RC:377:MET:HE3	45:RC:377:MET:HB3	1.98	0.40
45:RE:171:ILE:HG22	45:RE:204:LEU:CB	2.51	0.40
45:RE:329:ASN:CG	46:RF:175:VAL:HG12	2.46	0.40
46:RF:19:LYS:HD2	46:RF:227:HIS:CE1	2.56	0.40
45:RG:166:LYS:HD2	45:RG:197:HIS:O	2.21	0.40
45:RI:141:VAL:HG22	45:RI:187:SER:HA	2.03	0.40
45:RM:20:CYS:HA	45:RM:232:ALA:HB1	2.02	0.40
46:RN:97:ALA:HB3	46:RN:143:THR:HB	2.03	0.40
45:SA:288:VAL:HA	45:SA:291:ILE:HG12	2.02	0.40
45:SC:229:ARG:HH22	45:SC:366:GLY:HA3	1.87	0.40
46:SD:230:SER:HA	46:SD:233:MET:HE3	2.04	0.40
45:SE:174:SER:HB2	45:SE:177:VAL:O	2.20	0.40
45:SE:244:PHE:HB2	45:SE:356:ASN:HD21	1.84	0.40
45:SG:430:LYS:O	45:SG:433:GLU:HG3	2.21	0.40
46:SH:73:MET:HE1	46:SH:92:PHE:CD1	2.55	0.40
46:SH:323:THR:O	46:SH:327:ASP:OD2	2.40	0.40
45:SK:247:ALA:HB3	45:SK:355:ILE:HD11	2.02	0.40
46:SL:179:VAL:HG23	46:SL:180:VAL:HG13	2.04	0.40
45:SM:123:ARG:HA	45:SM:123:ARG:HD3	1.61	0.40
45:SM:388:PHE:HA	45:SM:391:LEU:HG	2.04	0.40
46:SN:403:MET:HG3	46:SN:407:GLU:OE2	2.21	0.40
45:TA:256:GLN:CD	46:TB:397:TRP:HE1	2.30	0.40
46:TB:22:GLU:HG2	46:TB:81:PHE:CD1	2.57	0.40
46:TB:129:CYS:SG	45:TC:96:LYS:HD3	2.61	0.40
46:TB:241:ARG:H	46:TB:241:ARG:HD3	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TB:280:GLN:H	46:TB:280:GLN:HG3	1.68	0.40
46:TD:109:GLY:O	46:TD:113:ILE:HG23	2.21	0.40
46:TD:378:PHE:HA	46:TD:381:VAL:HG22	2.04	0.40
45:TE:254:GLU:C	45:TE:255:PHE:HD2	2.28	0.40
45:TG:324:VAL:HG11	45:TG:326:LYS:NZ	2.36	0.40
46:TH:327:ASP:OD1	46:TH:328:GLU:N	2.54	0.40
46:TJ:161:ASP:OD1	46:TJ:162:ARG:N	2.55	0.40
46:TJ:391:ARG:HA	46:TJ:391:ARG:HD2	1.79	0.40
45:TK:346:TRP:H	45:TK:346:TRP:HD1	1.70	0.40
45:TK:422:ARG:HD2	45:TK:422:ARG:HA	1.91	0.40
46:TL:311:LEU:N	46:TL:370:ASN:O	2.53	0.40
45:TM:319:TYR:HB3	45:TM:373:ARG:HH12	1.86	0.40
45:UA:322:ASP:OD1	45:UA:373:ARG:NH1	2.52	0.40
45:UC:209:ILE:CD1	45:UC:230:LEU:HD23	2.52	0.40
45:UE:175:PRO:HG3	45:UE:390:ARG:CZ	2.51	0.40
45:UE:181:VAL:HG23	45:UE:182:VAL:HG23	2.03	0.40
46:UF:148:GLY:O	46:UF:152:ILE:HG12	2.21	0.40
46:UJ:72:THR:O	46:UJ:75:SER:OG	2.33	0.40
46:UJ:86:ARG:HG3	46:UJ:88:ASP:H	1.86	0.40
46:UJ:299:MET:HE3	46:UJ:300:MET:N	2.36	0.40
46:UJ:304:ASP:OD1	46:UJ:306:ARG:HG2	2.22	0.40
46:UJ:404:ASP:OD1	46:UJ:406:MET:HB3	2.22	0.40
45:VA:141:VAL:HG22	45:VA:187:SER:HA	2.04	0.40
45:VA:402:ARG:HD3	45:VA:402:ARG:HA	1.94	0.40
46:VB:158:GLU:HG3	46:VB:159:TYR:CE1	2.57	0.40
46:VB:203:ASP:O	46:VB:207:LEU:HG	2.22	0.40
45:VE:71:GLU:OE2	45:VE:73:THR:OG1	2.33	0.40
46:VF:52:ASN:OD1	46:VF:62:ARG:NH2	2.54	0.40
46:VF:100:ASN:HD21	46:VF:102:ALA:HB3	1.87	0.40
46:VH:4:ILE:HG13	46:VH:132:GLY:O	2.21	0.40
46:VH:213:ARG:HA	46:VH:216:LYS:HZ2	1.86	0.40
46:VH:316:LEU:HG	46:VH:352:SER:HB2	2.02	0.40
45:VI:296:PHE:HD2	45:VI:335:ILE:HD12	1.87	0.40
46:VJ:175:VAL:HG22	46:VJ:205:GLU:OE2	2.22	0.40
46:VJ:350:LYS:HA	46:VJ:350:LYS:HE2	2.03	0.40
46:VL:106:TYR:HD2	46:VL:403:MET:HE1	1.84	0.40
46:VL:316:LEU:HD13	46:VL:352:SER:HB2	2.02	0.40
45:WA:210:TYR:O	45:WA:214:ARG:HG2	2.21	0.40
46:WB:287:PRO:HA	46:WB:290:THR:HG22	2.04	0.40
45:WC:31:GLN:OE1	45:WC:36:MET:HA	2.21	0.40
45:WC:166:LYS:O	45:WC:199:ASP:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WE:98:ASP:H	46:WF:2:ARG:HH12	1.70	0.40
45:WE:153:LEU:HD13	45:WE:153:LEU:HA	1.94	0.40
46:WF:326:VAL:O	46:WF:330:MET:HG2	2.21	0.40
45:WG:422:ARG:O	45:WG:425:LEU:HG	2.21	0.40
46:WH:139:LEU:HD22	46:WH:188:SER:OG	2.22	0.40
45:WK:398:MET:HE1	46:WL:346:PRO:HD2	2.03	0.40
46:WL:20:PHE:O	46:WL:24:ILE:HG12	2.21	0.40
46:WN:32:PRO:HG3	46:WN:81:PHE:CZ	2.57	0.40
46:WN:211:CYS:SG	46:WN:220:PRO:HB3	2.61	0.40
45:CE:21:TRP:HZ2	45:CE:65:ALA:HB2	1.86	0.40
1:0A:87:LYS:C	1:0A:89:ALA:N	2.80	0.40
2:0B:13:MET:HA	2:0B:17:TRP:HB3	2.03	0.40
3:0C:70:HIS:CD2	3:0C:76:PRO:HD3	2.57	0.40
5:0E:61:LYS:HA	5:0E:64:GLN:NE2	2.35	0.40
10:0Q:25:TRP:CE3	10:0Q:61:ALA:HA	2.55	0.40
11:0S:244:ILE:HG22	11:0S:248:LEU:HD13	2.04	0.40
12:0T:208:ASN:O	12:0T:212:THR:HG23	2.21	0.40
12:0T:213:LEU:HD13	12:0T:218:PHE:CZ	2.55	0.40
1:1A:111:SER:N	1:1A:122:GLN:HE22	2.19	0.40
16:1B:216:GLU:OE1	46:KD:320:ARG:NH2	2.55	0.40
4:1D:123:SER:OG	4:1D:124:ASN:N	2.53	0.40
17:1F:163:PHE:HD2	46:GL:128:ASP:HA	1.86	0.40
8:1H:218:ASN:OD1	46:HH:362:LYS:NZ	2.51	0.40
8:1H:247:ALA:O	8:1H:250:PHE:CE1	2.75	0.40
8:1H:253:LEU:CD1	45:HE:364:PRO:HD3	2.51	0.40
8:1H:283:GLU:HA	8:1H:286:LYS:HZ3	1.87	0.40
8:1H:305:GLU:HB3	8:1H:306:ARG:HD3	2.03	0.40
18:1I:16:GLN:O	18:1I:17:LYS:HG2	2.21	0.40
19:1J:53:LYS:HA	19:1J:60:ILE:HD11	2.04	0.40
19:1J:214:LEU:HD23	19:1J:214:LEU:HA	1.94	0.40
20:1K:189:TYR:HA	20:1K:192:LYS:NZ	2.36	0.40
21:1L:330:LYS:NZ	21:1L:333:ASN:HB3	2.37	0.40
22:1M:151:MET:HE1	22:1M:156:ILE:HD12	2.04	0.40
22:1M:181:VAL:HA	22:1M:184:GLU:CD	2.46	0.40
9:1N:10:TYR:HA	46:IJ:53:GLU:OE1	2.22	0.40
10:1Q:32:GLY:O	35:4S:197:ARG:NH1	2.52	0.40
25:1R:159:LYS:HG2	25:1R:160:ALA:H	1.87	0.40
25:1R:504:GLU:HA	25:1R:507:LEU:HB2	2.04	0.40
11:1S:237:LEU:O	11:1S:240:SER:OG	2.37	0.40
12:1T:185:LEU:HB2	12:1T:196:VAL:CG1	2.47	0.40
13:1U:329:PRO:HG2	13:1U:332:TYR:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:1U:580:ARG:HB2	13:1U:593:VAL:HG22	2.04	0.40
14:1V:122:LYS:HE2	46:LL:390:ARG:HA	2.03	0.40
4:2D:224:ARG:O	4:2D:225:ARG:C	2.65	0.40
5:2E:68:HIS:C	5:2E:68:HIS:HD1	2.30	0.40
5:2E:97:LYS:O	5:2E:101:LEU:HD23	2.22	0.40
29:2G:50:ARG:O	29:2G:53:ILE:HG22	2.21	0.40
29:2G:71:LYS:HA	29:2G:71:LYS:HD2	1.88	0.40
31:2I:118:LYS:NZ	45:GC:339:ARG:HB3	2.37	0.40
20:2K:261:GLN:HA	20:2K:264:LYS:HG2	2.04	0.40
21:2L:877:PHE:HA	21:2L:887:LYS:HZ3	1.86	0.40
22:2M:111:ILE:HG12	22:2M:170:TRP:CZ3	2.56	0.40
9:2N:248:ASN:O	9:2N:251:ALA:HB3	2.22	0.40
23:2O:194:GLU:HG3	23:2O:197:LYS:HZ3	1.86	0.40
23:2O:401:ALA:O	23:2O:405:GLU:OE2	2.39	0.40
23:2O:414:ILE:CG2	23:2O:418:GLN:HE22	2.34	0.40
10:2Q:109:GLN:O	10:2Q:122:PRO:HB3	2.22	0.40
11:2S:219:LEU:HB3	11:2S:258:ILE:HG13	2.02	0.40
12:2T:285:ARG:HH22	13:2U:52:ARG:N	2.18	0.40
14:2V:185:LEU:O	14:2V:189:GLU:HG2	2.22	0.40
14:2V:194:GLN:OE1	14:2V:194:GLN:HA	2.21	0.40
1:3A:106:ASP:OD2	1:3A:108:ARG:HD2	2.21	0.40
27:3C:145:THR:O	27:3C:145:THR:HG22	2.22	0.40
21:3L:30:ASP:O	21:3L:34:LEU:HG	2.21	0.40
21:3L:56:LEU:O	21:3L:56:LEU:HD23	2.21	0.40
23:3O:268:ASN:HA	45:UM:282:TYR:CZ	2.57	0.40
23:3O:277:LYS:O	23:3O:280:GLN:HG3	2.22	0.40
10:3Q:39:ASP:OD1	10:3Q:40:GLN:N	2.54	0.40
11:3S:84:SER:HB2	13:3U:249:ASN:HD22	1.86	0.40
11:3S:136:ARG:HH22	10:5Q:72:LYS:HZ1	1.63	0.40
11:3S:207:VAL:O	11:3S:211:LEU:HG	2.22	0.40
12:3T:13:GLN:HG3	12:3T:13:GLN:O	2.22	0.40
13:3U:155:PHE:HE1	13:3U:163:ILE:HB	1.86	0.40
13:3U:322:ARG:HA	13:3U:595:ALA:O	2.21	0.40
13:3U:474:ILE:HG12	13:3U:486:CYS:HB3	2.02	0.40
13:3U:499:HIS:ND1	13:3U:500:PRO:O	2.53	0.40
14:3V:232:ILE:HG23	14:3V:238:LYS:HE2	2.04	0.40
34:4R:120:TYR:CE2	34:4R:162:TRP:HB3	2.56	0.40
34:4R:318:TYR:CE1	46:CF:273:LEU:HA	2.56	0.40
34:4R:424:LEU:HB2	34:4R:446:PHE:HB3	2.04	0.40
34:4R:570:VAL:HG21	34:4R:582:TYR:CE1	2.57	0.40
15:4X:27:PHE:C	15:4X:28:GLU:HG3	2.47	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5C:59:TYR:N	46:KJ:390:ARG:HH12	2.19	0.40
37:5E:85:GLN:OE1	37:5E:87:LEU:HG	2.21	0.40
37:5F:172:ASN:HB2	37:5F:176:ASP:CG	2.46	0.40
37:5H:67:ARG:HD3	37:5H:68:PRO:O	2.21	0.40
40:6G:128:LYS:HE3	45:VG:337:THR:HG21	2.03	0.40
40:6G:272:LYS:HG2	45:UC:119:LEU:HD11	2.04	0.40
41:6H:203:ASP:N	41:6H:203:ASP:OD2	2.54	0.40
41:6H:209:LEU:HD23	41:6H:209:LEU:H	1.85	0.40
34:6R:167:VAL:HA	34:6R:180:ILE:HG22	2.02	0.40
34:6R:525:GLU:HB3	34:6R:584:GLU:HG3	2.04	0.40
34:7R:87:LYS:HE3	34:7R:88:TYR:CZ	2.56	0.40
34:7R:206:ASN:HB2	34:7R:210:GLU:OE2	2.21	0.40
34:7R:315:MET:HG2	46:CB:26:ASP:OD2	2.21	0.40
34:7R:456:TYR:HE2	45:EA:46:ASP:HB3	1.86	0.40
45:AA:46:ASP:OD2	45:AA:47:ASP:N	2.55	0.40
45:AA:114:ILE:HG22	45:AA:118:CYS:SG	2.61	0.40
45:AE:28:HIS:CE1	45:AE:49:PHE:HA	2.57	0.40
45:AG:188:ILE:HD12	45:AG:425:LEU:HD11	2.03	0.40
45:AI:174:SER:HB2	45:AI:177:VAL:O	2.20	0.40
45:AI:280:LYS:HB3	45:MI:89:PRO:HG2	2.04	0.40
45:AI:397:LEU:HD23	45:AI:397:LEU:HA	1.90	0.40
45:AI:420:GLU:O	45:AI:423:GLU:HG2	2.20	0.40
46:AJ:25:SER:HG	46:AJ:51:TYR:HH	1.69	0.40
45:AM:271:SER:HB3	45:AM:377:MET:SD	2.62	0.40
45:AM:338:LYS:HD2	45:AM:338:LYS:HA	1.84	0.40
45:AM:340:THR:HG23	45:AM:341:ILE:HG13	2.03	0.40
45:BA:430:LYS:HA	45:BA:433:GLU:CD	2.46	0.40
45:BC:88:HIS:HB3	45:BC:91:GLN:CD	2.47	0.40
46:BD:306:ARG:HD2	46:BD:340:TYR:CE2	2.57	0.40
46:BD:344:TRP:CE3	46:BD:345:ILE:HG23	2.57	0.40
46:BF:87:PRO:HA	46:BF:90:PHE:CD2	2.35	0.40
46:BH:228:LEU:HD21	46:BH:300:MET:HE1	2.03	0.40
46:BH:256:ASN:HB3	46:BH:350:LYS:HD2	2.03	0.40
46:BH:299:MET:HE1	46:BH:367:PHE:CE2	2.57	0.40
46:BH:396:HIS:CE1	46:BH:397:TRP:HD1	2.39	0.40
46:BJ:87:PRO:HA	46:BJ:90:PHE:CD2	2.56	0.40
45:BM:384:ILE:HD12	45:BM:384:ILE:HA	1.92	0.40
46:BN:22:GLU:OE2	46:BN:80:PRO:HB2	2.22	0.40
46:BN:65:LEU:HD22	46:BN:90:PHE:HE1	1.86	0.40
45:CA:271:SER:HA	45:CA:302:MET:HE2	2.04	0.40
46:CB:345:ILE:HA	45:CC:398:MET:HE1	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CC:176:GLN:OE1	45:CC:176:GLN:N	2.55	0.40
46:CF:16:ILE:HD13	46:CF:226:ASN:OD1	2.21	0.40
46:CF:18:ALA:O	46:CF:22:GLU:HG3	2.21	0.40
45:CG:149:LEU:O	45:CG:153:LEU:HD23	2.22	0.40
46:CH:47:ILE:HG13	46:CH:48:ASN:N	2.37	0.40
45:CI:231:ILE:O	45:CI:235:ILE:HG12	2.21	0.40
45:CK:118:CYS:SG	45:CK:153:LEU:HD11	2.61	0.40
45:CK:439:THR:HB	46:CL:391:ARG:HD3	2.04	0.40
46:CL:30:ILE:HG21	46:CL:51:TYR:HE2	1.85	0.40
46:CL:239:CYS:SG	46:CL:247:ASN:HA	2.61	0.40
46:CL:362:LYS:HD3	46:CL:362:LYS:HA	1.81	0.40
46:CN:21:TRP:CD1	46:CN:85:PHE:HZ	2.40	0.40
45:DA:260:VAL:HG13	45:DA:265:ILE:O	2.21	0.40
46:DB:148:GLY:O	46:DB:152:ILE:HG12	2.21	0.40
46:DD:15:GLN:HA	46:DD:15:GLN:OE1	2.22	0.40
46:DD:287:PRO:O	46:DD:290:THR:HG22	2.22	0.40
45:DE:169:PHE:HD2	45:DE:202:VAL:HB	1.87	0.40
45:DE:319:TYR:CE2	45:DE:375:VAL:HB	2.56	0.40
46:DF:330:MET:HA	46:DF:333:VAL:HG12	2.04	0.40
46:DH:386:THR:O	46:DH:390:ARG:HG2	2.21	0.40
45:DK:258:ASN:CG	46:DL:179:VAL:HG22	2.47	0.40
46:DL:324:LYS:HA	46:DL:324:LYS:HE3	2.03	0.40
46:DN:44:LEU:HD23	46:DN:44:LEU:HA	1.92	0.40
45:EA:9:VAL:HG13	45:EA:139:ASN:HB3	2.04	0.40
45:EA:69:ASP:O	45:EA:94:SER:HA	2.22	0.40
46:EB:10:GLY:O	46:EB:14:ASN:ND2	2.53	0.40
46:EB:20:PHE:O	46:EB:24:ILE:HG12	2.20	0.40
45:EC:118:CYS:O	45:EC:122:ILE:HG13	2.21	0.40
46:ED:293:MET:SD	46:ED:367:PHE:HB2	2.61	0.40
45:EE:272:TYR:HD2	45:EE:275:ILE:HD11	1.87	0.40
45:EI:234:VAL:HG21	45:EI:302:MET:HE1	2.02	0.40
45:EI:331:SER:O	45:EI:335:ILE:HG12	2.21	0.40
46:EL:143:THR:OG1	49:EL:501:GDP:O1B	2.40	0.40
46:EL:202:ILE:HG23	46:EL:300:MET:SD	2.61	0.40
46:EL:252:LYS:HA	46:EL:255:VAL:HG12	2.02	0.40
46:EL:396:HIS:HA	46:EL:399:THR:OG1	2.22	0.40
45:EM:102:ASN:ND2	45:EM:105:ARG:HG3	2.37	0.40
46:EN:310:TYR:CD1	46:EN:371:SER:HB2	2.56	0.40
45:FA:326:LYS:HA	45:FA:326:LYS:HD2	1.79	0.40
45:FA:362:VAL:HA	45:FA:368:LEU:HD11	2.03	0.40
46:FB:69:GLU:HA	46:FB:70:PRO:HD3	1.88	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FB:270:PHE:C	46:FB:293:MET:HE1	2.47	0.40
45:FE:88:HIS:ND1	45:FE:89:PRO:HD2	2.36	0.40
45:FE:312:TYR:HB2	45:FE:343:PHE:CD2	2.56	0.40
46:FF:86:ARG:NH2	46:GF:281:TYR:HD2	2.20	0.40
46:FF:226:ASN:ND2	49:FF:501:GDP:HN1	2.19	0.40
46:FF:253:LEU:O	46:FF:257:LEU:HB2	2.22	0.40
45:FG:71:GLU:OE1	46:FH:247:ASN:ND2	2.53	0.40
45:FM:216:ASN:HB3	45:FM:275:ILE:O	2.22	0.40
45:GC:155:GLU:HG3	45:GC:197:HIS:NE2	2.36	0.40
45:GC:261:PRO:HA	46:GF:394:PHE:CE2	2.57	0.40
46:GD:105:HIS:HD1	46:GD:106:TYR:HD1	1.70	0.40
46:GD:105:HIS:HD2	46:GD:146:GLY:O	2.05	0.40
45:GE:425:LEU:HA	45:GE:425:LEU:HD23	1.78	0.40
46:GF:216:LYS:HA	46:GF:216:LYS:HD2	1.80	0.40
46:GJ:210:ILE:O	46:GJ:214:THR:HG22	2.22	0.40
46:GJ:288:GLU:OE2	46:GJ:291:GLN:NE2	2.54	0.40
46:GL:21:TRP:CZ3	46:GL:61:PRO:HB3	2.57	0.40
46:GL:274:THR:HB	46:GL:282:ARG:NH2	2.36	0.40
45:GM:242:LEU:HD11	45:GM:252:ILE:HG13	2.04	0.40
46:GN:100:ASN:HD21	46:GN:102:ALA:HB3	1.87	0.40
46:GN:212:PHE:O	46:GN:216:LYS:HA	2.21	0.40
45:HA:243:ARG:O	45:HA:244:PHE:HD1	2.04	0.40
45:HC:179:THR:O	46:HD:350:LYS:HA	2.22	0.40
46:HD:332:ASN:O	46:HD:336:LYS:HE2	2.21	0.40
45:HE:108:TYR:HA	45:HE:112:LYS:NZ	2.37	0.40
45:HE:128:ASN:C	45:HE:128:ASN:HD22	2.29	0.40
45:HE:407:TRP:CG	46:HF:255:VAL:HG23	2.56	0.40
45:HG:167:LEU:HD11	45:HG:252:ILE:HG23	2.04	0.40
45:HG:298:PRO:HG3	45:HG:308:ARG:NH1	2.36	0.40
46:HH:208:TYR:CE1	46:HH:225:LEU:HD11	2.56	0.40
45:HI:296:PHE:CE1	45:HI:377:MET:HE3	2.55	0.40
46:HJ:167:PHE:CD2	46:HJ:233:MET:HE3	2.57	0.40
45:HK:210:TYR:OH	46:HL:323:THR:OG1	2.38	0.40
45:HK:260:VAL:HG13	45:HK:265:ILE:O	2.22	0.40
46:HN:187:LEU:HD11	46:HN:408:PHE:CE1	2.56	0.40
45:IA:31:GLN:HB3	45:IA:32:PRO:HD2	2.03	0.40
46:IB:151:LEU:O	46:IB:155:VAL:HG22	2.21	0.40
45:II:430:LYS:HD2	45:II:430:LYS:HA	1.86	0.40
46:IJ:217:LEU:HD23	46:IJ:217:LEU:H	1.86	0.40
46:IJ:304:ASP:OD2	46:IJ:307:HIS:N	2.55	0.40
45:IK:287:SER:N	45:IK:290:GLU:OE2	2.45	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IK:322:ASP:OD1	45:IK:373:ARG:NH1	2.54	0.40
46:IL:289:LEU:CD2	46:IL:363:MET:HG2	2.51	0.40
45:IM:210:TYR:CG	46:IN:324:LYS:HD3	2.57	0.40
45:JA:215:ARG:HG3	45:JA:216:ASN:N	2.35	0.40
46:JB:209:ASP:OD1	46:JB:210:ILE:N	2.55	0.40
45:JC:26:LEU:HD11	45:JC:364:PRO:HD2	2.04	0.40
45:JC:115:VAL:O	45:JC:119:LEU:HD23	2.22	0.40
45:JE:27:GLU:HB2	45:JE:361:THR:HG21	2.02	0.40
45:JE:368:LEU:H	45:JE:368:LEU:HD12	1.87	0.40
46:JF:409:THR:O	46:JF:412:GLU:HG3	2.22	0.40
45:JG:71:GLU:HA	45:JG:72:PRO:HD3	1.91	0.40
45:JI:105:ARG:HG2	45:JI:411:GLU:OE2	2.22	0.40
45:JI:250:VAL:HG13	45:JI:254:GLU:HB2	2.02	0.40
45:JK:211:ASP:HA	45:JK:214:ARG:CG	2.51	0.40
45:JK:238:LEU:HD11	45:JK:255:PHE:CZ	2.57	0.40
45:JK:346:TRP:CD1	46:JN:391:ARG:HG3	2.57	0.40
46:JL:21:TRP:CZ3	46:JL:61:PRO:HB3	2.57	0.40
46:JL:115:SER:O	46:JL:119:VAL:HG23	2.21	0.40
45:JM:63:PRO:HB2	45:JM:91:GLN:HE22	1.86	0.40
45:JM:105:ARG:HA	45:JM:411:GLU:OE2	2.21	0.40
45:JM:428:LEU:HG	45:JM:432:TYR:HE2	1.86	0.40
45:KC:220:GLU:H	45:KC:220:GLU:CD	2.30	0.40
46:KF:6:HIS:NE2	46:KF:8:GLN:OE1	2.54	0.40
45:KG:29:GLY:C	45:KG:36:MET:HE1	2.47	0.40
45:KG:177:VAL:HG12	45:KG:207:GLU:OE2	2.22	0.40
45:KG:210:TYR:OH	46:KH:323:THR:OG1	2.29	0.40
46:KH:105:HIS:CE1	46:KH:150:LEU:HD12	2.57	0.40
45:KI:181:VAL:HG12	46:KJ:347:ASN:O	2.22	0.40
46:KJ:343:GLU:H	46:KJ:343:GLU:CD	2.29	0.40
45:LC:338:LYS:NZ	45:LC:340:THR:OG1	2.54	0.40
46:LD:232:ALA:HB1	46:LD:268:ILE:HD12	2.04	0.40
46:LF:105:HIS:CD2	46:LF:150:LEU:HB2	2.57	0.40
46:LF:334:GLN:HE22	46:LF:348:ASN:N	2.16	0.40
45:LI:221:ARG:HA	46:LJ:324:LYS:NZ	2.27	0.40
45:LI:328:VAL:HG11	45:LI:353:VAL:HG21	2.02	0.40
45:LK:229:ARG:NH1	45:LK:366:GLY:HA2	2.37	0.40
45:LK:377:MET:SD	45:LK:379:SER:HB3	2.62	0.40
45:LM:220:GLU:OE2	45:LM:221:ARG:HG3	2.21	0.40
45:MA:229:ARG:HD3	45:MA:363:VAL:HG11	2.03	0.40
45:MC:151:SER:HB2	45:MC:193:SER:OG	2.22	0.40
45:MC:318:MET:O	45:MC:375:VAL:HA	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:MF:406:MET:HB2	46:MF:406:MET:HE2	1.85	0.40
45:MI:422:ARG:HB3	45:MI:422:ARG:CZ	2.51	0.40
46:MJ:342:VAL:HG13	46:MJ:345:ILE:HG22	2.03	0.40
45:MK:51:THR:HG21	45:MK:243:ARG:HD3	2.03	0.40
45:MK:147:SER:HB2	45:MK:190:SER:HB3	2.04	0.40
45:MK:188:ILE:HD12	45:MK:425:LEU:HD22	2.04	0.40
45:MK:285:GLN:OE1	45:MK:285:GLN:N	2.52	0.40
46:ML:1:MET:SD	46:ML:46:ARG:NH1	2.94	0.40
46:ML:175:VAL:HG23	46:ML:175:VAL:O	2.21	0.40
45:NA:121:ARG:HH12	45:NA:124:LYS:HB2	1.86	0.40
45:NA:227:LEU:O	45:NA:231:ILE:HG12	2.22	0.40
46:ND:378:PHE:HA	46:ND:381:VAL:HG22	2.03	0.40
45:NE:151:SER:HB2	45:NE:193:SER:OG	2.22	0.40
45:NE:167:LEU:HD22	45:NE:200:VAL:HB	2.04	0.40
45:NE:186:ASN:OD1	45:NE:187:SER:N	2.55	0.40
46:NF:286:VAL:CG2	46:NF:287:PRO:HD3	2.52	0.40
45:NI:3:GLU:OE2	45:NI:131:GLY:N	2.53	0.40
45:NK:287:SER:O	45:NK:290:GLU:HG3	2.22	0.40
45:NK:333:ALA:HA	45:NK:336:LYS:HZ3	1.86	0.40
46:NL:67:ASP:HB2	46:NL:73:MET:HE2	2.04	0.40
46:NL:105:HIS:CE1	46:NL:150:LEU:HD12	2.56	0.40
46:NL:309:ARG:HH21	46:NL:342:VAL:HG23	1.85	0.40
45:NM:231:ILE:O	45:NM:235:ILE:HG12	2.20	0.40
45:NM:271:SER:O	45:NM:377:MET:HB3	2.22	0.40
46:NN:21:TRP:CZ2	46:NN:63:ALA:HB2	2.57	0.40
46:NN:51:TYR:CD1	46:NN:61:PRO:HA	2.57	0.40
45:OA:121:ARG:NH2	45:OA:125:LEU:HD21	2.36	0.40
45:OA:326:LYS:HD2	46:OD:208:TYR:CD1	2.56	0.40
46:OB:225:LEU:O	46:OB:228:LEU:HG	2.21	0.40
46:OB:403:MET:HG3	46:OB:407:GLU:OE2	2.22	0.40
45:OC:132:LEU:O	45:OC:164:LYS:NZ	2.34	0.40
45:OC:204:LEU:HD23	45:OC:204:LEU:HA	1.97	0.40
45:OE:210:TYR:CE2	46:OF:324:LYS:HA	2.48	0.40
45:OG:434:GLU:O	45:OG:437:ILE:HG22	2.21	0.40
46:OH:66:MET:HE1	46:OH:147:MET:HG3	2.03	0.40
45:OI:90:GLU:CG	45:PI:280:LYS:HE2	2.52	0.40
46:OL:95:THR:OG1	46:OL:108:GLU:OE2	2.37	0.40
45:OM:71:GLU:HG2	46:ON:247:ASN:HD22	1.86	0.40
45:OM:222:PRO:O	46:ON:322:SER:HB2	2.21	0.40
46:PB:258:ILE:HG13	46:PB:266:PHE:HZ	1.86	0.40
45:PE:426:ALA:O	45:PE:429:GLU:HG2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PH:385:PHE:HE2	46:PH:412:GLU:HB3	1.85	0.40
45:PI:176:GLN:O	46:PJ:331:LEU:HD21	2.21	0.40
46:PJ:286:VAL:HG12	46:PJ:329:GLN:OE1	2.22	0.40
46:PJ:309:ARG:NH1	46:PJ:343:GLU:OE1	2.52	0.40
45:QA:27:GLU:OE2	45:QA:28:HIS:ND1	2.55	0.40
45:QA:203:MET:HE1	45:QA:268:MET:N	2.36	0.40
46:QB:251:ARG:HE	45:QC:105:ARG:NH1	2.19	0.40
46:QD:330:MET:HA	46:QD:333:VAL:HG12	2.02	0.40
46:QF:286:VAL:HB	46:QF:287:PRO:HD3	2.04	0.40
45:QI:175:PRO:HG3	45:QI:390:ARG:NH2	2.36	0.40
45:QI:352:LYS:HD3	46:QJ:178:THR:HA	2.04	0.40
46:QL:329:GLN:NE2	46:QL:330:MET:HE3	2.33	0.40
45:QM:90:GLU:HG3	45:QM:121:ARG:NH2	2.37	0.40
46:QN:293:MET:HE2	46:QN:365:VAL:CG1	2.48	0.40
45:RC:19:ALA:HB2	45:RC:228:ASN:HB3	2.03	0.40
45:RC:209:ILE:HD12	45:RC:227:LEU:HD22	2.03	0.40
45:RE:102:ASN:ND2	45:RE:105:ARG:HG3	2.35	0.40
46:RF:408:PHE:O	46:RF:411:ALA:N	2.54	0.40
45:RG:280:LYS:HD2	45:RG:283:HIS:CG	2.56	0.40
46:RH:5:VAL:HA	46:RH:62:ARG:HG3	2.03	0.40
45:RI:147:SER:HB2	45:RI:190:SER:HB3	2.03	0.40
46:RJ:153:SER:O	46:RJ:156:ARG:HB3	2.22	0.40
46:RJ:182:PRO:O	46:RJ:186:THR:HG23	2.21	0.40
46:RJ:224:ASP:O	46:RJ:228:LEU:HD23	2.22	0.40
46:RL:153:SER:O	46:RL:157:GLU:OE1	2.39	0.40
46:RL:258:ILE:HB	45:RM:407:TRP:CZ2	2.57	0.40
45:RM:260:VAL:HG13	45:RM:265:ILE:O	2.22	0.40
45:SA:184:PRO:O	45:SA:188:ILE:HG12	2.21	0.40
46:SB:256:ASN:HD22	46:SB:350:LYS:HD3	1.87	0.40
46:SB:325:GLU:OE2	46:SB:325:GLU:N	2.54	0.40
45:SC:2:ARG:HD2	45:SC:242:LEU:O	2.21	0.40
45:SE:23:LEU:O	45:SE:27:GLU:HG3	2.21	0.40
46:SF:378:PHE:O	46:SF:415:MET:HE1	2.22	0.40
45:SG:164:LYS:HD3	45:SG:165:SER:N	2.31	0.40
46:SH:175:VAL:HG22	46:SH:205:GLU:HB2	2.02	0.40
46:SH:324:LYS:HA	45:SI:210:TYR:HE2	1.86	0.40
45:SI:30:ILE:HD13	45:SI:36:MET:SD	2.62	0.40
45:SI:101:ASN:HA	45:SI:144:GLY:H	1.87	0.40
45:SI:123:ARG:HD2	45:SI:123:ARG:HA	1.87	0.40
45:SI:352:LYS:HA	46:SJ:177:ASP:O	2.22	0.40
46:SJ:394:PHE:HB3	46:SJ:397:TRP:HD1	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SL:375:GLN:HG3	46:SL:422:TYR:HE2	1.87	0.40
45:SM:79:ARG:NH1	45:SM:79:ARG:HB2	2.35	0.40
45:SM:229:ARG:HH22	45:SM:366:GLY:HA3	1.87	0.40
45:SM:326:LYS:HE2	46:SN:220:PRO:HD2	2.03	0.40
47:SM:501:GTP:H8	47:SM:501:GTP:O1A	2.04	0.40
45:TA:124:LYS:HE2	45:TA:124:LYS:HB2	1.88	0.40
45:TC:104:ALA:CB	45:TC:413:MET:HE3	2.52	0.40
46:TD:91:VAL:HG21	46:TD:116:VAL:HB	2.03	0.40
46:TD:116:VAL:HA	46:TD:119:VAL:HG12	2.03	0.40
45:TE:32:PRO:HB3	45:TE:83:TYR:HE1	1.85	0.40
46:TF:45:GLU:HG2	46:TF:46:ARG:HG2	2.02	0.40
45:TG:2:ARG:O	45:TG:51:THR:HA	2.20	0.40
45:TG:164:LYS:HD3	45:TG:165:SER:H	1.86	0.40
46:TH:88:ASP:OD1	46:TH:89:ASN:N	2.55	0.40
45:TI:203:MET:C	45:TI:204:LEU:HD22	2.47	0.40
46:TJ:21:TRP:CD1	46:TJ:85:PHE:HZ	2.39	0.40
46:TJ:73:MET:HE1	46:TJ:92:PHE:CG	2.57	0.40
46:TJ:201:VAL:HG22	46:TJ:266:PHE:O	2.21	0.40
45:TK:32:PRO:HB3	45:TK:83:TYR:HE1	1.86	0.40
46:TL:252:LYS:O	46:TL:256:ASN:ND2	2.55	0.40
46:TL:258:ILE:HG23	46:TL:263:LEU:O	2.22	0.40
45:UA:331:SER:O	45:UA:335:ILE:HG12	2.21	0.40
46:UB:97:ALA:HA	46:UB:103:LYS:HG2	2.03	0.40
46:UB:344:TRP:CE3	45:UC:401:LYS:HD2	2.57	0.40
46:UD:104:GLY:O	46:UD:146:GLY:HA3	2.21	0.40
45:UE:89:PRO:HD2	45:VC:280:LYS:CE	2.49	0.40
46:UF:233:MET:O	46:UF:236:VAL:HG12	2.21	0.40
46:UF:325:GLU:O	46:UF:328:GLU:HG3	2.21	0.40
46:UH:101:TRP:HD1	46:UH:145:SER:OG	2.05	0.40
46:UH:156:ARG:NH1	46:UH:195:ASN:O	2.55	0.40
45:UI:247:ALA:C	45:UI:248:LEU:HD12	2.47	0.40
46:UL:122:LYS:O	46:UL:125:GLU:HG3	2.21	0.40
46:UL:200:MET:HE3	46:UL:201:VAL:O	2.22	0.40
46:UN:274:THR:HB	46:UN:282:ARG:NH1	2.36	0.40
45:VA:2:ARG:HH12	46:VD:70:PRO:CD	2.35	0.40
45:VA:203:MET:HE3	45:VA:267:PHE:HB3	2.03	0.40
46:VB:200:MET:HG2	46:VB:268:ILE:HG23	2.03	0.40
45:VC:71:GLU:OE2	45:VC:73:THR:OG1	2.34	0.40
45:VC:222:PRO:HG2	46:VD:324:LYS:HE2	2.03	0.40
46:VD:69:GLU:HA	46:VD:70:PRO:HD3	1.96	0.40
46:VD:175:VAL:HG23	46:VD:205:GLU:HG3	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VE:317:MET:SD	45:VE:317:MET:N	2.94	0.40
46:VF:289:LEU:HD11	46:VF:363:MET:SD	2.62	0.40
45:VG:143:GLY:HA3	47:VG:501:GTP:O2B	2.22	0.40
45:VG:422:ARG:NH1	45:VG:426:ALA:HB2	2.33	0.40
45:VI:349:THR:OG1	46:VL:176:SER:OG	2.15	0.40
46:VJ:5:VAL:HG12	46:VJ:62:ARG:HD3	2.03	0.40
46:VJ:208:TYR:CE1	46:VJ:225:LEU:HD11	2.56	0.40
46:VJ:395:LEU:O	46:VJ:399:THR:HG23	2.21	0.40
46:VL:210:ILE:HG13	46:VL:211:CYS:N	2.37	0.40
46:VN:208:TYR:CE2	46:VN:225:LEU:HD11	2.55	0.40
46:VN:288:GLU:O	46:VN:291:GLN:HG3	2.21	0.40
46:WB:188:SER:O	46:WB:192:LEU:HD23	2.21	0.40
46:WB:216:LYS:HB2	46:WB:275:SER:OG	2.22	0.40
46:WB:240:LEU:HD12	46:WB:249:ASP:HB2	2.03	0.40
46:WB:377:MET:HE3	46:WB:377:MET:HB2	1.93	0.40
45:WC:9:VAL:HG13	45:WC:139:ASN:HB3	2.04	0.40
45:WE:18:ASN:O	45:WE:22:GLU:HG2	2.22	0.40
46:WF:313:ALA:HB1	46:WF:367:PHE:HE1	1.86	0.40
45:WG:212:ILE:HD13	45:WG:215:ARG:HH11	1.86	0.40
45:WG:289:ALA:O	45:WG:292:THR:HG22	2.22	0.40
46:WH:39:ASP:OD2	46:WH:40:SER:N	2.54	0.40
45:WI:156:ARG:HA	45:WI:156:ARG:HD2	1.71	0.40
45:WI:164:LYS:HD3	45:WI:164:LYS:HA	1.85	0.40
45:WK:85:GLN:OE1	45:WK:85:GLN:N	2.54	0.40
45:WM:138:PHE:HE1	45:WM:169:PHE:CD2	2.40	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	0A	148/236 (63%)	118 (80%)	25 (17%)	5 (3%)	3 23

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	1A	148/236 (63%)	118 (80%)	26 (18%)	4 (3%)	4	28
1	2A	148/236 (63%)	117 (79%)	26 (18%)	5 (3%)	3	23
1	3A	148/236 (63%)	121 (82%)	24 (16%)	3 (2%)	6	33
2	0B	317/329 (96%)	245 (77%)	64 (20%)	8 (2%)	4	29
3	0C	93/156 (60%)	72 (77%)	17 (18%)	4 (4%)	2	20
3	1C	93/156 (60%)	70 (75%)	19 (20%)	4 (4%)	2	20
4	0D	198/225 (88%)	150 (76%)	40 (20%)	8 (4%)	2	21
4	1D	198/225 (88%)	149 (75%)	40 (20%)	9 (4%)	2	19
4	2D	198/225 (88%)	145 (73%)	44 (22%)	9 (4%)	2	19
5	0E	187/191 (98%)	174 (93%)	10 (5%)	3 (2%)	7	37
5	1E	187/191 (98%)	169 (90%)	14 (8%)	4 (2%)	5	32
5	2E	187/191 (98%)	168 (90%)	17 (9%)	2 (1%)	11	44
5	3E	187/191 (98%)	175 (94%)	10 (5%)	2 (1%)	11	44
6	0F	202/219 (92%)	160 (79%)	37 (18%)	5 (2%)	4	29
7	0G	162/183 (88%)	123 (76%)	33 (20%)	6 (4%)	2	22
7	1G	129/183 (70%)	100 (78%)	25 (19%)	4 (3%)	3	25
8	0H	118/447 (26%)	107 (91%)	9 (8%)	2 (2%)	7	36
8	1H	423/447 (95%)	402 (95%)	19 (4%)	2 (0%)	24	61
9	0N	278/492 (56%)	265 (95%)	13 (5%)	0	100	100
9	1N	457/492 (93%)	444 (97%)	12 (3%)	1 (0%)	43	76
9	2N	278/492 (56%)	270 (97%)	8 (3%)	0	100	100
10	0Q	184/195 (94%)	171 (93%)	13 (7%)	0	100	100
10	1Q	184/195 (94%)	172 (94%)	12 (6%)	0	100	100
10	2Q	184/195 (94%)	166 (90%)	18 (10%)	0	100	100
10	3Q	184/195 (94%)	172 (94%)	12 (6%)	0	100	100
10	4Q	184/195 (94%)	167 (91%)	17 (9%)	0	100	100
10	5Q	184/195 (94%)	169 (92%)	15 (8%)	0	100	100
10	6Q	184/195 (94%)	166 (90%)	18 (10%)	0	100	100
11	0S	284/319 (89%)	258 (91%)	26 (9%)	0	100	100
11	1S	284/319 (89%)	258 (91%)	25 (9%)	1 (0%)	30	65
11	2S	284/319 (89%)	262 (92%)	20 (7%)	2 (1%)	18	55

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
11	3S	284/319 (89%)	263 (93%)	21 (7%)	0	100	100
12	0T	255/298 (86%)	241 (94%)	14 (6%)	0	100	100
12	1T	283/298 (95%)	257 (91%)	26 (9%)	0	100	100
12	2T	283/298 (95%)	263 (93%)	20 (7%)	0	100	100
12	3T	283/298 (95%)	261 (92%)	22 (8%)	0	100	100
13	0U	605/656 (92%)	550 (91%)	55 (9%)	0	100	100
13	1U	605/656 (92%)	550 (91%)	55 (9%)	0	100	100
13	2U	605/656 (92%)	553 (91%)	52 (9%)	0	100	100
13	3U	605/656 (92%)	551 (91%)	54 (9%)	0	100	100
14	0V	203/269 (76%)	176 (87%)	24 (12%)	3 (2%)	8	39
14	1V	259/269 (96%)	221 (85%)	30 (12%)	8 (3%)	3	25
14	2V	259/269 (96%)	215 (83%)	38 (15%)	6 (2%)	5	31
14	3V	259/269 (96%)	223 (86%)	30 (12%)	6 (2%)	5	31
15	0X	108/142 (76%)	104 (96%)	3 (3%)	1 (1%)	14	49
15	1X	139/142 (98%)	132 (95%)	6 (4%)	1 (1%)	18	55
15	2X	139/142 (98%)	133 (96%)	5 (4%)	1 (1%)	18	55
15	3X	139/142 (98%)	132 (95%)	6 (4%)	1 (1%)	18	55
15	4X	139/142 (98%)	131 (94%)	8 (6%)	0	100	100
16	1B	496/498 (100%)	469 (95%)	24 (5%)	3 (1%)	21	58
16	2B	293/498 (59%)	271 (92%)	21 (7%)	1 (0%)	36	70
16	3B	291/498 (58%)	267 (92%)	24 (8%)	0	100	100
17	1F	132/173 (76%)	114 (86%)	14 (11%)	4 (3%)	3	25
18	1I	182/263 (69%)	150 (82%)	30 (16%)	2 (1%)	11	44
19	1J	364/422 (86%)	307 (84%)	49 (14%)	8 (2%)	5	31
20	1K	275/489 (56%)	273 (99%)	1 (0%)	1 (0%)	30	65
20	2K	284/489 (58%)	282 (99%)	2 (1%)	0	100	100
21	1L	808/940 (86%)	708 (88%)	92 (11%)	8 (1%)	12	46
21	2L	604/940 (64%)	533 (88%)	65 (11%)	6 (1%)	12	46
21	3L	198/940 (21%)	170 (86%)	24 (12%)	4 (2%)	6	33
22	1M	367/372 (99%)	343 (94%)	22 (6%)	2 (0%)	24	61
22	2M	367/372 (99%)	351 (96%)	15 (4%)	1 (0%)	36	70

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
23	1O	235/494 (48%)	230 (98%)	5 (2%)	0	100	100
23	2O	366/494 (74%)	363 (99%)	2 (0%)	1 (0%)	36	70
23	3O	275/494 (56%)	273 (99%)	2 (1%)	0	100	100
24	1P	353/507 (70%)	348 (99%)	4 (1%)	1 (0%)	36	70
24	2P	188/507 (37%)	187 (100%)	1 (0%)	0	100	100
25	1R	502/516 (97%)	469 (93%)	32 (6%)	1 (0%)	43	76
25	2R	502/516 (97%)	475 (95%)	26 (5%)	1 (0%)	43	76
25	3R	502/516 (97%)	472 (94%)	29 (6%)	1 (0%)	43	76
26	1W	222/280 (79%)	218 (98%)	4 (2%)	0	100	100
26	2W	114/280 (41%)	106 (93%)	8 (7%)	0	100	100
27	2C	298/300 (99%)	279 (94%)	17 (6%)	2 (1%)	18	55
27	3C	298/300 (99%)	278 (93%)	17 (6%)	3 (1%)	12	46
27	4C	298/300 (99%)	280 (94%)	16 (5%)	2 (1%)	18	55
28	2F	83/96 (86%)	74 (89%)	9 (11%)	0	100	100
29	2G	97/99 (98%)	92 (95%)	5 (5%)	0	100	100
30	2H	59/229 (26%)	51 (86%)	7 (12%)	1 (2%)	7	36
30	3H	59/229 (26%)	52 (88%)	6 (10%)	1 (2%)	7	36
30	4H	59/229 (26%)	51 (86%)	7 (12%)	1 (2%)	7	36
31	2I	136/293 (46%)	113 (83%)	19 (14%)	4 (3%)	3	26
31	3I	83/293 (28%)	67 (81%)	14 (17%)	2 (2%)	4	30
32	3D	235/237 (99%)	224 (95%)	11 (5%)	0	100	100
33	4F	194/276 (70%)	163 (84%)	28 (14%)	3 (2%)	8	39
34	4R	607/613 (99%)	578 (95%)	29 (5%)	0	100	100
34	5R	607/613 (99%)	575 (95%)	32 (5%)	0	100	100
34	6R	607/613 (99%)	576 (95%)	31 (5%)	0	100	100
34	7R	607/613 (99%)	581 (96%)	26 (4%)	0	100	100
35	4S	186/249 (75%)	181 (97%)	5 (3%)	0	100	100
35	5S	186/249 (75%)	178 (96%)	8 (4%)	0	100	100
36	5A	155/175 (89%)	126 (81%)	29 (19%)	0	100	100
36	5B	155/175 (89%)	121 (78%)	33 (21%)	1 (1%)	21	58
36	5C	155/175 (89%)	126 (81%)	28 (18%)	1 (1%)	21	58

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
36	5D	112/175 (64%)	92 (82%)	20 (18%)	0	100	100
37	5E	186/247 (75%)	153 (82%)	29 (16%)	4 (2%)	5	31
37	5F	208/247 (84%)	169 (81%)	33 (16%)	6 (3%)	3	26
37	5G	208/247 (84%)	170 (82%)	34 (16%)	4 (2%)	6	34
37	5H	144/247 (58%)	114 (79%)	28 (19%)	2 (1%)	9	39
39	6F	130/145 (90%)	111 (85%)	16 (12%)	3 (2%)	5	31
40	6G	210/364 (58%)	179 (85%)	29 (14%)	2 (1%)	12	46
41	6H	151/518 (29%)	120 (80%)	27 (18%)	4 (3%)	4	28
44	8R	178/361 (49%)	173 (97%)	4 (2%)	1 (1%)	21	58
45	AA	437/449 (97%)	427 (98%)	10 (2%)	0	100	100
45	AC	437/449 (97%)	425 (97%)	12 (3%)	0	100	100
45	AE	437/449 (97%)	424 (97%)	13 (3%)	0	100	100
45	AG	437/449 (97%)	421 (96%)	16 (4%)	0	100	100
45	AI	437/449 (97%)	422 (97%)	15 (3%)	0	100	100
45	AK	437/449 (97%)	425 (97%)	12 (3%)	0	100	100
45	AM	437/449 (97%)	419 (96%)	18 (4%)	0	100	100
45	BA	428/449 (95%)	416 (97%)	12 (3%)	0	100	100
45	BC	428/449 (95%)	414 (97%)	14 (3%)	0	100	100
45	BE	428/449 (95%)	415 (97%)	13 (3%)	0	100	100
45	BG	428/449 (95%)	418 (98%)	10 (2%)	0	100	100
45	BI	428/449 (95%)	413 (96%)	15 (4%)	0	100	100
45	BK	428/449 (95%)	412 (96%)	16 (4%)	0	100	100
45	BM	428/449 (95%)	413 (96%)	15 (4%)	0	100	100
45	CA	437/449 (97%)	422 (97%)	15 (3%)	0	100	100
45	CC	437/449 (97%)	427 (98%)	10 (2%)	0	100	100
45	CE	437/449 (97%)	427 (98%)	10 (2%)	0	100	100
45	CG	437/449 (97%)	421 (96%)	16 (4%)	0	100	100
45	CI	437/449 (97%)	426 (98%)	11 (2%)	0	100	100
45	CK	437/449 (97%)	419 (96%)	18 (4%)	0	100	100
45	CM	437/449 (97%)	423 (97%)	14 (3%)	0	100	100
45	DA	429/449 (96%)	417 (97%)	12 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
45	DC	432/449 (96%)	419 (97%)	12 (3%)	1 (0%)	43 76
45	DE	429/449 (96%)	411 (96%)	18 (4%)	0	100 100
45	DG	432/449 (96%)	419 (97%)	12 (3%)	1 (0%)	43 76
45	DI	429/449 (96%)	414 (96%)	15 (4%)	0	100 100
45	DK	432/449 (96%)	423 (98%)	8 (2%)	1 (0%)	43 76
45	DM	429/449 (96%)	417 (97%)	12 (3%)	0	100 100
45	EA	437/449 (97%)	423 (97%)	14 (3%)	0	100 100
45	EC	437/449 (97%)	418 (96%)	19 (4%)	0	100 100
45	EE	437/449 (97%)	424 (97%)	12 (3%)	1 (0%)	43 76
45	EG	437/449 (97%)	429 (98%)	8 (2%)	0	100 100
45	EI	437/449 (97%)	421 (96%)	15 (3%)	1 (0%)	43 76
45	EK	437/449 (97%)	421 (96%)	16 (4%)	0	100 100
45	EM	437/449 (97%)	421 (96%)	15 (3%)	1 (0%)	43 76
45	FA	425/449 (95%)	415 (98%)	10 (2%)	0	100 100
45	FC	428/449 (95%)	414 (97%)	14 (3%)	0	100 100
45	FE	430/449 (96%)	416 (97%)	14 (3%)	0	100 100
45	FG	437/449 (97%)	423 (97%)	14 (3%)	0	100 100
45	FI	429/449 (96%)	418 (97%)	11 (3%)	0	100 100
45	FK	428/449 (95%)	417 (97%)	11 (3%)	0	100 100
45	FM	425/449 (95%)	413 (97%)	12 (3%)	0	100 100
45	GA	425/449 (95%)	413 (97%)	12 (3%)	0	100 100
45	GC	427/449 (95%)	416 (97%)	11 (3%)	0	100 100
45	GE	427/449 (95%)	410 (96%)	17 (4%)	0	100 100
45	GG	427/449 (95%)	410 (96%)	17 (4%)	0	100 100
45	GI	427/449 (95%)	412 (96%)	15 (4%)	0	100 100
45	GK	437/449 (97%)	421 (96%)	16 (4%)	0	100 100
45	GM	425/449 (95%)	416 (98%)	9 (2%)	0	100 100
45	HA	427/449 (95%)	411 (96%)	16 (4%)	0	100 100
45	HC	427/449 (95%)	414 (97%)	13 (3%)	0	100 100
45	HE	427/449 (95%)	417 (98%)	10 (2%)	0	100 100
45	HG	427/449 (95%)	414 (97%)	13 (3%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
45	HI	427/449 (95%)	414 (97%)	13 (3%)	0	100	100
45	HK	427/449 (95%)	417 (98%)	10 (2%)	0	100	100
45	HM	427/449 (95%)	418 (98%)	9 (2%)	0	100	100
45	IA	428/449 (95%)	409 (96%)	19 (4%)	0	100	100
45	IC	437/449 (97%)	422 (97%)	15 (3%)	0	100	100
45	IE	428/449 (95%)	409 (96%)	19 (4%)	0	100	100
45	IG	437/449 (97%)	422 (97%)	15 (3%)	0	100	100
45	II	437/449 (97%)	417 (95%)	20 (5%)	0	100	100
45	IK	428/449 (95%)	414 (97%)	14 (3%)	0	100	100
45	IM	428/449 (95%)	420 (98%)	8 (2%)	0	100	100
45	JA	428/449 (95%)	414 (97%)	14 (3%)	0	100	100
45	JC	430/449 (96%)	417 (97%)	13 (3%)	0	100	100
45	JE	437/449 (97%)	420 (96%)	17 (4%)	0	100	100
45	JG	437/449 (97%)	420 (96%)	16 (4%)	1 (0%)	43	76
45	JI	437/449 (97%)	411 (94%)	24 (6%)	2 (0%)	24	61
45	JK	437/449 (97%)	422 (97%)	15 (3%)	0	100	100
45	JM	428/449 (95%)	418 (98%)	10 (2%)	0	100	100
45	KA	430/449 (96%)	416 (97%)	13 (3%)	1 (0%)	43	76
45	KC	429/449 (96%)	416 (97%)	13 (3%)	0	100	100
45	KE	431/449 (96%)	412 (96%)	19 (4%)	0	100	100
45	KG	437/449 (97%)	417 (95%)	19 (4%)	1 (0%)	43	76
45	KI	437/449 (97%)	422 (97%)	15 (3%)	0	100	100
45	KK	437/449 (97%)	413 (94%)	24 (6%)	0	100	100
45	KM	430/449 (96%)	418 (97%)	11 (3%)	1 (0%)	43	76
45	LA	437/449 (97%)	421 (96%)	15 (3%)	1 (0%)	43	76
45	LC	437/449 (97%)	419 (96%)	18 (4%)	0	100	100
45	LE	434/449 (97%)	416 (96%)	18 (4%)	0	100	100
45	LG	437/449 (97%)	421 (96%)	16 (4%)	0	100	100
45	LI	430/449 (96%)	411 (96%)	19 (4%)	0	100	100
45	LK	437/449 (97%)	419 (96%)	18 (4%)	0	100	100
45	LM	437/449 (97%)	422 (97%)	14 (3%)	1 (0%)	43	76

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
45	MA	432/449 (96%)	413 (96%)	19 (4%)	0	100	100
45	MC	429/449 (96%)	412 (96%)	17 (4%)	0	100	100
45	ME	429/449 (96%)	414 (96%)	14 (3%)	1 (0%)	43	76
45	MG	433/449 (96%)	420 (97%)	13 (3%)	0	100	100
45	MI	437/449 (97%)	422 (97%)	15 (3%)	0	100	100
45	MK	432/449 (96%)	417 (96%)	15 (4%)	0	100	100
45	MM	432/449 (96%)	418 (97%)	14 (3%)	0	100	100
45	NA	437/449 (97%)	422 (97%)	14 (3%)	1 (0%)	43	76
45	NC	428/449 (95%)	412 (96%)	16 (4%)	0	100	100
45	NE	437/449 (97%)	418 (96%)	18 (4%)	1 (0%)	43	76
45	NG	428/449 (95%)	410 (96%)	18 (4%)	0	100	100
45	NI	437/449 (97%)	422 (97%)	14 (3%)	1 (0%)	43	76
45	NK	428/449 (95%)	411 (96%)	17 (4%)	0	100	100
45	NM	437/449 (97%)	418 (96%)	18 (4%)	1 (0%)	43	76
45	OA	429/449 (96%)	413 (96%)	16 (4%)	0	100	100
45	OC	429/449 (96%)	418 (97%)	11 (3%)	0	100	100
45	OE	429/449 (96%)	419 (98%)	10 (2%)	0	100	100
45	OG	429/449 (96%)	420 (98%)	9 (2%)	0	100	100
45	OI	429/449 (96%)	418 (97%)	11 (3%)	0	100	100
45	OK	429/449 (96%)	412 (96%)	17 (4%)	0	100	100
45	OM	429/449 (96%)	417 (97%)	12 (3%)	0	100	100
45	PA	425/449 (95%)	411 (97%)	14 (3%)	0	100	100
45	PC	425/449 (95%)	411 (97%)	14 (3%)	0	100	100
45	PE	425/449 (95%)	407 (96%)	18 (4%)	0	100	100
45	PG	425/449 (95%)	410 (96%)	15 (4%)	0	100	100
45	PI	425/449 (95%)	413 (97%)	12 (3%)	0	100	100
45	PK	425/449 (95%)	406 (96%)	19 (4%)	0	100	100
45	PM	425/449 (95%)	411 (97%)	14 (3%)	0	100	100
45	QA	427/449 (95%)	419 (98%)	8 (2%)	0	100	100
45	QC	427/449 (95%)	418 (98%)	9 (2%)	0	100	100
45	QE	427/449 (95%)	415 (97%)	12 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
45	QG	427/449 (95%)	417 (98%)	10 (2%)	0	100	100
45	QI	427/449 (95%)	408 (96%)	19 (4%)	0	100	100
45	QK	427/449 (95%)	415 (97%)	12 (3%)	0	100	100
45	QM	427/449 (95%)	414 (97%)	13 (3%)	0	100	100
45	RA	427/449 (95%)	420 (98%)	7 (2%)	0	100	100
45	RC	427/449 (95%)	419 (98%)	8 (2%)	0	100	100
45	RE	427/449 (95%)	414 (97%)	13 (3%)	0	100	100
45	RG	427/449 (95%)	416 (97%)	11 (3%)	0	100	100
45	RI	427/449 (95%)	414 (97%)	13 (3%)	0	100	100
45	RK	427/449 (95%)	411 (96%)	16 (4%)	0	100	100
45	RM	427/449 (95%)	418 (98%)	9 (2%)	0	100	100
45	SA	426/449 (95%)	419 (98%)	7 (2%)	0	100	100
45	SC	426/449 (95%)	410 (96%)	16 (4%)	0	100	100
45	SE	426/449 (95%)	412 (97%)	14 (3%)	0	100	100
45	SG	426/449 (95%)	411 (96%)	15 (4%)	0	100	100
45	SI	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
45	SK	426/449 (95%)	412 (97%)	14 (3%)	0	100	100
45	SM	426/449 (95%)	412 (97%)	14 (3%)	0	100	100
45	TA	426/449 (95%)	414 (97%)	12 (3%)	0	100	100
45	TC	426/449 (95%)	411 (96%)	15 (4%)	0	100	100
45	TE	426/449 (95%)	412 (97%)	14 (3%)	0	100	100
45	TG	426/449 (95%)	414 (97%)	12 (3%)	0	100	100
45	TI	426/449 (95%)	420 (99%)	6 (1%)	0	100	100
45	TK	426/449 (95%)	412 (97%)	14 (3%)	0	100	100
45	TM	426/449 (95%)	412 (97%)	14 (3%)	0	100	100
45	UA	427/449 (95%)	418 (98%)	9 (2%)	0	100	100
45	UC	427/449 (95%)	415 (97%)	12 (3%)	0	100	100
45	UE	427/449 (95%)	412 (96%)	15 (4%)	0	100	100
45	UG	427/449 (95%)	416 (97%)	11 (3%)	0	100	100
45	UI	427/449 (95%)	413 (97%)	14 (3%)	0	100	100
45	UK	427/449 (95%)	412 (96%)	15 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
45	UM	427/449 (95%)	416 (97%)	11 (3%)	0	100	100
45	VA	429/449 (96%)	415 (97%)	14 (3%)	0	100	100
45	VC	437/449 (97%)	427 (98%)	10 (2%)	0	100	100
45	VE	429/449 (96%)	416 (97%)	13 (3%)	0	100	100
45	VG	437/449 (97%)	417 (95%)	20 (5%)	0	100	100
45	VI	429/449 (96%)	421 (98%)	8 (2%)	0	100	100
45	VK	437/449 (97%)	422 (97%)	15 (3%)	0	100	100
45	VM	429/449 (96%)	420 (98%)	9 (2%)	0	100	100
45	WA	427/449 (95%)	415 (97%)	12 (3%)	0	100	100
45	WC	437/449 (97%)	421 (96%)	15 (3%)	1 (0%)	43	76
45	WE	427/449 (95%)	414 (97%)	13 (3%)	0	100	100
45	WG	437/449 (97%)	418 (96%)	18 (4%)	1 (0%)	43	76
45	WI	427/449 (95%)	417 (98%)	10 (2%)	0	100	100
45	WK	437/449 (97%)	419 (96%)	17 (4%)	1 (0%)	43	76
45	WM	427/449 (95%)	415 (97%)	12 (3%)	0	100	100
46	AB	428/443 (97%)	414 (97%)	14 (3%)	0	100	100
46	AD	428/443 (97%)	418 (98%)	10 (2%)	0	100	100
46	AF	428/443 (97%)	424 (99%)	4 (1%)	0	100	100
46	AH	428/443 (97%)	418 (98%)	10 (2%)	0	100	100
46	AJ	428/443 (97%)	422 (99%)	6 (1%)	0	100	100
46	AL	428/443 (97%)	422 (99%)	6 (1%)	0	100	100
46	AN	428/443 (97%)	425 (99%)	3 (1%)	0	100	100
46	BB	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	BD	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	BF	428/443 (97%)	417 (97%)	11 (3%)	0	100	100
46	BH	428/443 (97%)	416 (97%)	12 (3%)	0	100	100
46	BJ	428/443 (97%)	418 (98%)	10 (2%)	0	100	100
46	BL	428/443 (97%)	414 (97%)	14 (3%)	0	100	100
46	BN	428/443 (97%)	415 (97%)	13 (3%)	0	100	100
46	CB	428/443 (97%)	416 (97%)	12 (3%)	0	100	100
46	CD	428/443 (97%)	414 (97%)	14 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
46	CF	428/443 (97%)	410 (96%)	18 (4%)	0	100	100
46	CH	428/443 (97%)	412 (96%)	16 (4%)	0	100	100
46	CJ	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	CL	428/443 (97%)	415 (97%)	13 (3%)	0	100	100
46	CN	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
46	DB	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	DD	428/443 (97%)	414 (97%)	14 (3%)	0	100	100
46	DF	428/443 (97%)	418 (98%)	10 (2%)	0	100	100
46	DH	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	DJ	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	DL	428/443 (97%)	414 (97%)	14 (3%)	0	100	100
46	DN	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	EB	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	ED	428/443 (97%)	413 (96%)	15 (4%)	0	100	100
46	EF	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	EH	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	EJ	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	EL	428/443 (97%)	414 (97%)	14 (3%)	0	100	100
46	EN	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
46	FB	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	FD	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	FF	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	FH	428/443 (97%)	411 (96%)	17 (4%)	0	100	100
46	FJ	428/443 (97%)	416 (97%)	12 (3%)	0	100	100
46	FL	428/443 (97%)	418 (98%)	10 (2%)	0	100	100
46	FN	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	GB	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	GD	428/443 (97%)	415 (97%)	13 (3%)	0	100	100
46	GF	428/443 (97%)	412 (96%)	16 (4%)	0	100	100
46	GH	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	GJ	428/443 (97%)	414 (97%)	14 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
46	GL	428/443 (97%)	417 (97%)	11 (3%)	0	100	100
46	GN	428/443 (97%)	422 (99%)	6 (1%)	0	100	100
46	HB	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	HD	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	HF	428/443 (97%)	416 (97%)	12 (3%)	0	100	100
46	HH	428/443 (97%)	418 (98%)	10 (2%)	0	100	100
46	HJ	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	HL	428/443 (97%)	417 (97%)	11 (3%)	0	100	100
46	HN	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	IB	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	ID	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	IF	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	IH	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	IJ	428/443 (97%)	416 (97%)	12 (3%)	0	100	100
46	IL	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	IN	428/443 (97%)	414 (97%)	14 (3%)	0	100	100
46	JB	428/443 (97%)	416 (97%)	12 (3%)	0	100	100
46	JD	428/443 (97%)	413 (96%)	15 (4%)	0	100	100
46	JF	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	JH	428/443 (97%)	414 (97%)	14 (3%)	0	100	100
46	JJ	428/443 (97%)	416 (97%)	12 (3%)	0	100	100
46	JL	428/443 (97%)	414 (97%)	14 (3%)	0	100	100
46	JN	428/443 (97%)	414 (97%)	14 (3%)	0	100	100
46	KB	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	KD	428/443 (97%)	417 (97%)	11 (3%)	0	100	100
46	KF	428/443 (97%)	414 (97%)	14 (3%)	0	100	100
46	KH	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	KJ	428/443 (97%)	410 (96%)	18 (4%)	0	100	100
46	KL	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	KN	428/443 (97%)	414 (97%)	14 (3%)	0	100	100
46	LB	428/443 (97%)	419 (98%)	9 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
46	LD	428/443 (97%)	416 (97%)	12 (3%)	0	100	100
46	LF	428/443 (97%)	415 (97%)	13 (3%)	0	100	100
46	LH	428/443 (97%)	415 (97%)	13 (3%)	0	100	100
46	LJ	428/443 (97%)	413 (96%)	15 (4%)	0	100	100
46	LL	428/443 (97%)	413 (96%)	15 (4%)	0	100	100
46	LN	428/443 (97%)	416 (97%)	12 (3%)	0	100	100
46	MB	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	MD	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	MF	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	MH	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	MJ	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	ML	428/443 (97%)	416 (97%)	12 (3%)	0	100	100
46	MN	428/443 (97%)	417 (97%)	11 (3%)	0	100	100
46	NB	419/443 (95%)	408 (97%)	11 (3%)	0	100	100
46	ND	428/443 (97%)	414 (97%)	14 (3%)	0	100	100
46	NF	419/443 (95%)	407 (97%)	12 (3%)	0	100	100
46	NH	428/443 (97%)	415 (97%)	13 (3%)	0	100	100
46	NJ	419/443 (95%)	405 (97%)	14 (3%)	0	100	100
46	NL	428/443 (97%)	412 (96%)	16 (4%)	0	100	100
46	NN	419/443 (95%)	407 (97%)	12 (3%)	0	100	100
46	OB	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	OD	428/443 (97%)	418 (98%)	10 (2%)	0	100	100
46	OF	428/443 (97%)	418 (98%)	10 (2%)	0	100	100
46	OH	428/443 (97%)	416 (97%)	12 (3%)	0	100	100
46	OJ	428/443 (97%)	418 (98%)	10 (2%)	0	100	100
46	OL	428/443 (97%)	409 (96%)	19 (4%)	0	100	100
46	ON	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	PB	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	PD	428/443 (97%)	415 (97%)	13 (3%)	0	100	100
46	PF	428/443 (97%)	418 (98%)	10 (2%)	0	100	100
46	PH	428/443 (97%)	419 (98%)	9 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
46	PJ	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	PL	428/443 (97%)	417 (97%)	11 (3%)	0	100	100
46	PN	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	QB	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	QD	428/443 (97%)	416 (97%)	12 (3%)	0	100	100
46	QF	428/443 (97%)	418 (98%)	10 (2%)	0	100	100
46	QH	428/443 (97%)	418 (98%)	10 (2%)	0	100	100
46	QJ	428/443 (97%)	415 (97%)	13 (3%)	0	100	100
46	QL	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	QN	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	RB	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	RD	428/443 (97%)	415 (97%)	13 (3%)	0	100	100
46	RF	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	RH	428/443 (97%)	414 (97%)	14 (3%)	0	100	100
46	RJ	428/443 (97%)	416 (97%)	12 (3%)	0	100	100
46	RL	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	RN	428/443 (97%)	424 (99%)	4 (1%)	0	100	100
46	SB	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	SD	428/443 (97%)	415 (97%)	13 (3%)	0	100	100
46	SF	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	SH	428/443 (97%)	417 (97%)	11 (3%)	0	100	100
46	SJ	428/443 (97%)	417 (97%)	11 (3%)	0	100	100
46	SL	428/443 (97%)	415 (97%)	13 (3%)	0	100	100
46	SN	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	TB	428/443 (97%)	417 (97%)	11 (3%)	0	100	100
46	TD	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	TF	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	TH	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	TJ	428/443 (97%)	422 (99%)	6 (1%)	0	100	100
46	TL	428/443 (97%)	417 (97%)	11 (3%)	0	100	100
46	TN	428/443 (97%)	421 (98%)	7 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
46	UB	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	UD	428/443 (97%)	418 (98%)	10 (2%)	0	100	100
46	UF	428/443 (97%)	416 (97%)	12 (3%)	0	100	100
46	UH	428/443 (97%)	417 (97%)	11 (3%)	0	100	100
46	UJ	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	UL	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	UN	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	VB	428/443 (97%)	416 (97%)	12 (3%)	0	100	100
46	VD	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	VF	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	VH	428/443 (97%)	417 (97%)	11 (3%)	0	100	100
46	VJ	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	VL	428/443 (97%)	418 (98%)	10 (2%)	0	100	100
46	VN	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	WB	428/443 (97%)	425 (99%)	3 (1%)	0	100	100
46	WD	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	WF	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
46	WH	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	WJ	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	WL	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	WN	428/443 (97%)	417 (97%)	11 (3%)	0	100	100
All	All	164878/178239 (92%)	158526 (96%)	6118 (4%)	234 (0%)	49	81

All (234) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	0A	20	PRO
1	0A	90	GLN
2	0B	67	THR
2	0B	208	VAL
3	0C	45	PRO
3	0C	57	TYR
3	0C	84	THR
4	0D	39	PRO
4	0D	74	GLN

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Mol	Chain	Res	Type
4	0D	85	VAL
4	0D	167	ILE
4	0D	191	PHE
4	0D	218	GLN
4	0D	220	ILE
5	0E	44	ASP
6	0F	8	PRO
6	0F	33	PRO
6	0F	86	ARG
7	0G	13	TYR
7	0G	22	PHE
7	0G	56	LEU
14	0V	46	PRO
14	0V	120	GLU
14	0V	125	MET
1	1A	20	PRO
1	1A	90	GLN
1	1A	131	ILE
16	1B	202	VAL
16	1B	315	SER
3	1C	45	PRO
3	1C	57	TYR
3	1C	84	THR
4	1D	39	PRO
4	1D	74	GLN
4	1D	85	VAL
4	1D	167	ILE
4	1D	218	GLN
4	1D	220	ILE
17	1F	30	PRO
17	1F	161	ILE
7	1G	56	LEU
8	1H	420	GLN
19	1J	221	ASP
19	1J	332	ILE
20	1K	31	ARG
21	1L	116	LYS
21	1L	129	SER
21	1L	215	VAL
21	1L	368	PHE
22	1M	139	LYS
14	1V	46	PRO

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Mol	Chain	Res	Type
14	1V	120	GLU
14	1V	152	PRO
14	1V	165	PRO
1	2A	20	PRO
1	2A	131	ILE
16	2B	202	VAL
27	2C	99	LEU
4	2D	39	PRO
4	2D	74	GLN
4	2D	85	VAL
4	2D	96	VAL
4	2D	167	ILE
4	2D	191	PHE
4	2D	218	GLN
4	2D	220	ILE
30	2H	207	LYS
31	2I	76	PRO
31	2I	78	PRO
21	2L	368	PHE
21	2L	802	ASP
22	2M	291	PHE
14	2V	46	PRO
14	2V	120	GLU
14	2V	152	PRO
14	2V	165	PRO
1	3A	20	PRO
31	3I	199	VAL
21	3L	116	LYS
21	3L	129	SER
21	3L	215	VAL
14	3V	46	PRO
14	3V	120	GLU
14	3V	152	PRO
14	3V	165	PRO
33	4F	17	LYS
33	4F	70	VAL
37	5E	164	LYS
37	5F	164	LYS
37	5G	164	LYS
37	5H	119	GLU
39	6F	20	THR
39	6F	39	LYS

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Mol	Chain	Res	Type
40	6G	122	TYR
41	6H	243	LYS
45	JI	42	ILE
45	KA	47	ASP
45	ME	37	PRO
2	0B	25	ASN
2	0B	247	ALA
4	0D	96	VAL
6	0F	72	ASP
8	0H	335	ALA
1	1A	88	VAL
4	1D	96	VAL
4	1D	191	PHE
5	1E	44	ASP
5	1E	156	ASP
17	1F	168	ARG
8	1H	335	ALA
21	1L	60	VAL
24	1P	223	ARG
11	1S	7	GLN
14	1V	88	LYS
14	1V	125	MET
1	2A	90	GLN
14	2V	125	MET
1	3A	88	VAL
5	3E	44	ASP
30	3H	207	LYS
21	3L	60	VAL
14	3V	125	MET
33	4F	28	VAL
30	4H	207	LYS
37	5E	119	GLU
37	5F	119	GLU
39	6F	124	ARG
45	KG	47	ASP
45	KM	47	ASP
3	0C	92	GLN
3	1C	92	GLN
17	1F	158	ASN
19	1J	262	VAL
25	1R	43	PRO
14	1V	265	VAL

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Mol	Chain	Res	Type
1	2A	88	VAL
5	2E	44	ASP
21	2L	795	ASN
23	2O	478	ASN
25	2R	43	PRO
14	2V	265	VAL
1	3A	90	GLN
31	3I	272	ARG
14	3V	265	VAL
27	4C	99	LEU
37	5F	108	LYS
40	6G	116	ILE
45	JG	38	SER
2	0B	44	ILE
5	0E	39	ARG
7	0G	53	ASN
7	0G	119	ILE
15	0X	31	ASP
16	1B	306	VAL
7	1G	53	ASN
7	1G	119	ILE
18	1I	38	ILE
19	1J	150	THR
21	1L	617	ARG
21	1L	802	ASP
9	1N	428	HIS
15	1X	31	ASP
11	2S	7	GLN
27	3C	99	LEU
15	3X	31	ASP
37	5F	50	GLU
37	5G	50	GLU
44	8R	204	ALA
45	EE	36	MET
45	NA	42	ILE
45	NE	42	ILE
45	NI	42	ILE
45	NM	42	ILE
45	WG	42	ILE
45	DC	38	SER
1	0A	88	VAL
2	0B	35	LYS

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Mol	Chain	Res	Type
2	0B	143	LYS
6	0F	185	GLU
5	1E	39	ARG
19	1J	223	PHE
22	1M	289	PRO
31	2I	199	VAL
31	2I	212	THR
11	2S	98	GLN
25	3R	43	PRO
36	5C	43	CYS
37	5E	65	GLU
37	5F	124	TYR
41	6H	170	TYR
41	6H	215	ASN
41	6H	248	LEU
45	DG	38	SER
45	DK	38	SER
45	EM	36	MET
45	JI	39	ASP
45	LA	41	THR
45	LM	41	THR
45	WC	42	ILE
45	WK	42	ILE
1	0A	122	GLN
5	0E	43	VAL
7	0G	68	LYS
8	0H	420	GLN
5	1E	43	VAL
18	1I	17	LYS
21	1L	795	ASN
1	2A	122	GLN
21	2L	617	ARG
15	2X	31	ASP
27	3C	44	TYR
27	4C	140	GLN
36	5B	43	CYS
37	5G	33	TYR
19	1J	326	LYS
5	2E	43	VAL
45	EI	36	MET
1	0A	131	ILE
4	1D	163	ASP

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Mol	Chain	Res	Type
5	3E	43	VAL
37	5G	35	LEU
14	1V	18	PRO
21	2L	579	VAL
37	5H	35	LEU
7	1G	85	ILE
19	1J	145	ILE
19	1J	224	PRO
4	2D	163	ASP
27	3C	95	ILE
37	5F	35	LEU
2	0B	88	ASP
27	2C	95	ILE
21	2L	370	PRO
37	5E	35	LEU

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	0A	133/213 (62%)	132 (99%)	1 (1%)	73 77
1	1A	133/213 (62%)	133 (100%)	0	100 100
1	2A	133/213 (62%)	133 (100%)	0	100 100
1	3A	133/213 (62%)	133 (100%)	0	100 100
2	0B	291/301 (97%)	290 (100%)	1 (0%)	86 85
3	0C	81/137 (59%)	81 (100%)	0	100 100
3	1C	81/137 (59%)	81 (100%)	0	100 100
4	0D	175/197 (89%)	175 (100%)	0	100 100
4	1D	175/197 (89%)	175 (100%)	0	100 100
4	2D	175/197 (89%)	175 (100%)	0	100 100
5	0E	172/175 (98%)	172 (100%)	0	100 100
5	1E	172/175 (98%)	172 (100%)	0	100 100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
5	2E	172/175 (98%)	172 (100%)	0	100 100
5	3E	172/175 (98%)	172 (100%)	0	100 100
6	0F	182/194 (94%)	182 (100%)	0	100 100
7	0G	153/167 (92%)	153 (100%)	0	100 100
7	1G	125/167 (75%)	125 (100%)	0	100 100
8	0H	111/413 (27%)	111 (100%)	0	100 100
8	1H	392/413 (95%)	391 (100%)	1 (0%)	86 85
9	0N	256/451 (57%)	256 (100%)	0	100 100
9	1N	423/451 (94%)	423 (100%)	0	100 100
9	2N	256/451 (57%)	256 (100%)	0	100 100
10	0Q	174/182 (96%)	174 (100%)	0	100 100
10	1Q	174/182 (96%)	174 (100%)	0	100 100
10	2Q	174/182 (96%)	174 (100%)	0	100 100
10	3Q	174/182 (96%)	173 (99%)	1 (1%)	78 80
10	4Q	174/182 (96%)	174 (100%)	0	100 100
10	5Q	174/182 (96%)	174 (100%)	0	100 100
10	6Q	174/182 (96%)	174 (100%)	0	100 100
11	0S	257/286 (90%)	257 (100%)	0	100 100
11	1S	257/286 (90%)	256 (100%)	1 (0%)	84 83
11	2S	257/286 (90%)	256 (100%)	1 (0%)	84 83
11	3S	257/286 (90%)	257 (100%)	0	100 100
12	0T	229/264 (87%)	229 (100%)	0	100 100
12	1T	251/264 (95%)	251 (100%)	0	100 100
12	2T	251/264 (95%)	251 (100%)	0	100 100
12	3T	251/264 (95%)	251 (100%)	0	100 100
13	0U	528/571 (92%)	527 (100%)	1 (0%)	87 87
13	1U	528/571 (92%)	528 (100%)	0	100 100
13	2U	528/571 (92%)	528 (100%)	0	100 100
13	3U	528/571 (92%)	527 (100%)	1 (0%)	87 87
14	0V	196/249 (79%)	196 (100%)	0	100 100
14	1V	244/249 (98%)	244 (100%)	0	100 100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
14	2V	244/249 (98%)	243 (100%)	1 (0%)	84 83
14	3V	244/249 (98%)	244 (100%)	0	100 100
15	0X	98/129 (76%)	98 (100%)	0	100 100
15	1X	128/129 (99%)	128 (100%)	0	100 100
15	2X	128/129 (99%)	128 (100%)	0	100 100
15	3X	128/129 (99%)	128 (100%)	0	100 100
15	4X	128/129 (99%)	128 (100%)	0	100 100
16	1B	441/441 (100%)	441 (100%)	0	100 100
16	2B	264/441 (60%)	264 (100%)	0	100 100
16	3B	263/441 (60%)	263 (100%)	0	100 100
17	1F	121/157 (77%)	120 (99%)	1 (1%)	73 77
18	1I	172/239 (72%)	172 (100%)	0	100 100
19	1J	328/370 (89%)	328 (100%)	0	100 100
20	1K	263/463 (57%)	263 (100%)	0	100 100
20	2K	275/463 (59%)	275 (100%)	0	100 100
21	1L	771/878 (88%)	771 (100%)	0	100 100
21	2L	576/878 (66%)	575 (100%)	1 (0%)	87 87
21	3L	191/878 (22%)	191 (100%)	0	100 100
22	1M	323/325 (99%)	323 (100%)	0	100 100
22	2M	323/325 (99%)	323 (100%)	0	100 100
23	1O	228/458 (50%)	228 (100%)	0	100 100
23	2O	346/458 (76%)	346 (100%)	0	100 100
23	3O	258/458 (56%)	258 (100%)	0	100 100
24	1P	328/471 (70%)	328 (100%)	0	100 100
24	2P	173/471 (37%)	173 (100%)	0	100 100
25	1R	466/475 (98%)	466 (100%)	0	100 100
25	2R	466/475 (98%)	466 (100%)	0	100 100
25	3R	466/475 (98%)	466 (100%)	0	100 100
26	1W	211/265 (80%)	211 (100%)	0	100 100
26	2W	109/265 (41%)	109 (100%)	0	100 100
27	2C	271/271 (100%)	271 (100%)	0	100 100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
27	3C	271/271 (100%)	271 (100%)	0	100	100
27	4C	271/271 (100%)	271 (100%)	0	100	100
28	2F	81/90 (90%)	81 (100%)	0	100	100
29	2G	91/91 (100%)	91 (100%)	0	100	100
30	2H	59/212 (28%)	59 (100%)	0	100	100
30	3H	59/212 (28%)	59 (100%)	0	100	100
30	4H	59/212 (28%)	59 (100%)	0	100	100
31	2I	124/259 (48%)	124 (100%)	0	100	100
31	3I	80/259 (31%)	80 (100%)	0	100	100
32	3D	195/195 (100%)	195 (100%)	0	100	100
33	4F	179/245 (73%)	179 (100%)	0	100	100
34	4R	561/568 (99%)	561 (100%)	0	100	100
34	5R	561/568 (99%)	561 (100%)	0	100	100
34	6R	561/568 (99%)	561 (100%)	0	100	100
34	7R	561/568 (99%)	561 (100%)	0	100	100
35	4S	169/222 (76%)	169 (100%)	0	100	100
35	5S	169/222 (76%)	169 (100%)	0	100	100
36	5A	140/159 (88%)	140 (100%)	0	100	100
36	5B	140/159 (88%)	140 (100%)	0	100	100
36	5C	140/159 (88%)	140 (100%)	0	100	100
36	5D	101/159 (64%)	101 (100%)	0	100	100
37	5E	173/227 (76%)	173 (100%)	0	100	100
37	5F	194/227 (86%)	194 (100%)	0	100	100
37	5G	194/227 (86%)	194 (100%)	0	100	100
37	5H	132/227 (58%)	132 (100%)	0	100	100
39	6F	128/141 (91%)	128 (100%)	0	100	100
40	6G	194/329 (59%)	194 (100%)	0	100	100
41	6H	150/474 (32%)	148 (99%)	2 (1%)	61	72
44	8R	31/31 (100%)	31 (100%)	0	100	100
45	AA	370/376 (98%)	370 (100%)	0	100	100
45	AC	370/376 (98%)	370 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
45	AE	370/376 (98%)	370 (100%)	0	100	100
45	AG	370/376 (98%)	370 (100%)	0	100	100
45	AI	370/376 (98%)	370 (100%)	0	100	100
45	AK	370/376 (98%)	370 (100%)	0	100	100
45	AM	370/376 (98%)	370 (100%)	0	100	100
45	BA	366/376 (97%)	366 (100%)	0	100	100
45	BC	366/376 (97%)	366 (100%)	0	100	100
45	BE	366/376 (97%)	366 (100%)	0	100	100
45	BG	366/376 (97%)	366 (100%)	0	100	100
45	BI	366/376 (97%)	366 (100%)	0	100	100
45	BK	366/376 (97%)	366 (100%)	0	100	100
45	BM	366/376 (97%)	366 (100%)	0	100	100
45	CA	370/376 (98%)	370 (100%)	0	100	100
45	CC	370/376 (98%)	370 (100%)	0	100	100
45	CE	370/376 (98%)	370 (100%)	0	100	100
45	CG	370/376 (98%)	369 (100%)	1 (0%)	86	85
45	CI	370/376 (98%)	370 (100%)	0	100	100
45	CK	370/376 (98%)	370 (100%)	0	100	100
45	CM	370/376 (98%)	370 (100%)	0	100	100
45	DA	367/376 (98%)	367 (100%)	0	100	100
45	DC	368/376 (98%)	367 (100%)	1 (0%)	86	85
45	DE	367/376 (98%)	367 (100%)	0	100	100
45	DG	368/376 (98%)	367 (100%)	1 (0%)	86	85
45	DI	367/376 (98%)	366 (100%)	1 (0%)	86	85
45	DK	368/376 (98%)	368 (100%)	0	100	100
45	DM	367/376 (98%)	367 (100%)	0	100	100
45	EA	370/376 (98%)	370 (100%)	0	100	100
45	EC	370/376 (98%)	370 (100%)	0	100	100
45	EE	370/376 (98%)	370 (100%)	0	100	100
45	EG	370/376 (98%)	370 (100%)	0	100	100
45	EI	370/376 (98%)	370 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
45	EK	370/376 (98%)	370 (100%)	0	100	100
45	EM	370/376 (98%)	370 (100%)	0	100	100
45	FA	363/376 (96%)	363 (100%)	0	100	100
45	FC	366/376 (97%)	366 (100%)	0	100	100
45	FE	367/376 (98%)	367 (100%)	0	100	100
45	FG	370/376 (98%)	370 (100%)	0	100	100
45	FI	367/376 (98%)	367 (100%)	0	100	100
45	FK	366/376 (97%)	366 (100%)	0	100	100
45	FM	363/376 (96%)	363 (100%)	0	100	100
45	GA	363/376 (96%)	363 (100%)	0	100	100
45	GC	365/376 (97%)	365 (100%)	0	100	100
45	GE	365/376 (97%)	365 (100%)	0	100	100
45	GG	365/376 (97%)	365 (100%)	0	100	100
45	GI	365/376 (97%)	365 (100%)	0	100	100
45	GK	370/376 (98%)	370 (100%)	0	100	100
45	GM	363/376 (96%)	363 (100%)	0	100	100
45	HA	365/376 (97%)	365 (100%)	0	100	100
45	HC	365/376 (97%)	365 (100%)	0	100	100
45	HE	365/376 (97%)	365 (100%)	0	100	100
45	HG	365/376 (97%)	365 (100%)	0	100	100
45	HI	365/376 (97%)	365 (100%)	0	100	100
45	HK	365/376 (97%)	365 (100%)	0	100	100
45	HM	365/376 (97%)	365 (100%)	0	100	100
45	IA	366/376 (97%)	366 (100%)	0	100	100
45	IC	370/376 (98%)	370 (100%)	0	100	100
45	IE	366/376 (97%)	365 (100%)	1 (0%)	86	85
45	IG	370/376 (98%)	370 (100%)	0	100	100
45	II	370/376 (98%)	370 (100%)	0	100	100
45	IK	366/376 (97%)	366 (100%)	0	100	100
45	IM	366/376 (97%)	366 (100%)	0	100	100
45	JA	366/376 (97%)	366 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
45	JC	367/376 (98%)	366 (100%)	1 (0%)	86 85
45	JE	370/376 (98%)	369 (100%)	1 (0%)	86 85
45	JG	370/376 (98%)	370 (100%)	0	100 100
45	JI	369/376 (98%)	369 (100%)	0	100 100
45	JK	370/376 (98%)	370 (100%)	0	100 100
45	JM	366/376 (97%)	366 (100%)	0	100 100
45	KA	367/376 (98%)	367 (100%)	0	100 100
45	KC	367/376 (98%)	367 (100%)	0	100 100
45	KE	368/376 (98%)	368 (100%)	0	100 100
45	KG	370/376 (98%)	370 (100%)	0	100 100
45	KI	370/376 (98%)	369 (100%)	1 (0%)	86 85
45	KK	370/376 (98%)	370 (100%)	0	100 100
45	KM	367/376 (98%)	367 (100%)	0	100 100
45	LA	370/376 (98%)	370 (100%)	0	100 100
45	LC	370/376 (98%)	370 (100%)	0	100 100
45	LE	369/376 (98%)	369 (100%)	0	100 100
45	LG	370/376 (98%)	370 (100%)	0	100 100
45	LI	368/376 (98%)	368 (100%)	0	100 100
45	LK	370/376 (98%)	370 (100%)	0	100 100
45	LM	370/376 (98%)	369 (100%)	1 (0%)	86 85
45	MA	369/376 (98%)	369 (100%)	0	100 100
45	MC	366/376 (97%)	366 (100%)	0	100 100
45	ME	367/376 (98%)	367 (100%)	0	100 100
45	MG	370/376 (98%)	370 (100%)	0	100 100
45	MI	370/376 (98%)	370 (100%)	0	100 100
45	MK	367/376 (98%)	367 (100%)	0	100 100
45	MM	369/376 (98%)	369 (100%)	0	100 100
45	NA	370/376 (98%)	368 (100%)	2 (0%)	81 82
45	NC	366/376 (97%)	366 (100%)	0	100 100
45	NE	370/376 (98%)	370 (100%)	0	100 100
45	NG	366/376 (97%)	366 (100%)	0	100 100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
45	NI	370/376 (98%)	370 (100%)	0	100	100
45	NK	366/376 (97%)	366 (100%)	0	100	100
45	NM	370/376 (98%)	370 (100%)	0	100	100
45	OA	366/376 (97%)	366 (100%)	0	100	100
45	OC	366/376 (97%)	366 (100%)	0	100	100
45	OE	366/376 (97%)	365 (100%)	1 (0%)	86	85
45	OG	366/376 (97%)	366 (100%)	0	100	100
45	OI	366/376 (97%)	366 (100%)	0	100	100
45	OK	366/376 (97%)	366 (100%)	0	100	100
45	OM	366/376 (97%)	366 (100%)	0	100	100
45	PA	363/376 (96%)	363 (100%)	0	100	100
45	PC	363/376 (96%)	363 (100%)	0	100	100
45	PE	363/376 (96%)	363 (100%)	0	100	100
45	PG	363/376 (96%)	362 (100%)	1 (0%)	86	85
45	PI	363/376 (96%)	363 (100%)	0	100	100
45	PK	363/376 (96%)	363 (100%)	0	100	100
45	PM	363/376 (96%)	363 (100%)	0	100	100
45	QA	365/376 (97%)	365 (100%)	0	100	100
45	QC	365/376 (97%)	365 (100%)	0	100	100
45	QE	365/376 (97%)	365 (100%)	0	100	100
45	QG	365/376 (97%)	365 (100%)	0	100	100
45	QI	365/376 (97%)	365 (100%)	0	100	100
45	QK	365/376 (97%)	365 (100%)	0	100	100
45	QM	365/376 (97%)	365 (100%)	0	100	100
45	RA	365/376 (97%)	365 (100%)	0	100	100
45	RC	365/376 (97%)	365 (100%)	0	100	100
45	RE	365/376 (97%)	365 (100%)	0	100	100
45	RG	365/376 (97%)	365 (100%)	0	100	100
45	RI	365/376 (97%)	365 (100%)	0	100	100
45	RK	365/376 (97%)	365 (100%)	0	100	100
45	RM	365/376 (97%)	365 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
45	SA	364/376 (97%)	364 (100%)	0	100	100
45	SC	364/376 (97%)	364 (100%)	0	100	100
45	SE	364/376 (97%)	364 (100%)	0	100	100
45	SG	364/376 (97%)	364 (100%)	0	100	100
45	SI	364/376 (97%)	364 (100%)	0	100	100
45	SK	364/376 (97%)	364 (100%)	0	100	100
45	SM	364/376 (97%)	364 (100%)	0	100	100
45	TA	364/376 (97%)	364 (100%)	0	100	100
45	TC	364/376 (97%)	364 (100%)	0	100	100
45	TE	364/376 (97%)	364 (100%)	0	100	100
45	TG	364/376 (97%)	364 (100%)	0	100	100
45	TI	364/376 (97%)	364 (100%)	0	100	100
45	TK	364/376 (97%)	364 (100%)	0	100	100
45	TM	364/376 (97%)	364 (100%)	0	100	100
45	UA	365/376 (97%)	365 (100%)	0	100	100
45	UC	365/376 (97%)	365 (100%)	0	100	100
45	UE	365/376 (97%)	365 (100%)	0	100	100
45	UG	365/376 (97%)	365 (100%)	0	100	100
45	UI	365/376 (97%)	365 (100%)	0	100	100
45	UK	365/376 (97%)	365 (100%)	0	100	100
45	UM	365/376 (97%)	365 (100%)	0	100	100
45	VA	367/376 (98%)	367 (100%)	0	100	100
45	VC	370/376 (98%)	370 (100%)	0	100	100
45	VE	367/376 (98%)	367 (100%)	0	100	100
45	VG	370/376 (98%)	370 (100%)	0	100	100
45	VI	367/376 (98%)	367 (100%)	0	100	100
45	VK	370/376 (98%)	370 (100%)	0	100	100
45	VM	367/376 (98%)	367 (100%)	0	100	100
45	WA	365/376 (97%)	365 (100%)	0	100	100
45	WC	370/376 (98%)	370 (100%)	0	100	100
45	WE	365/376 (97%)	365 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
45	WG	370/376 (98%)	370 (100%)	0	100	100
45	WI	365/376 (97%)	365 (100%)	0	100	100
45	WK	370/376 (98%)	370 (100%)	0	100	100
45	WM	365/376 (97%)	365 (100%)	0	100	100
46	AB	365/376 (97%)	365 (100%)	0	100	100
46	AD	365/376 (97%)	365 (100%)	0	100	100
46	AF	365/376 (97%)	365 (100%)	0	100	100
46	AH	365/376 (97%)	365 (100%)	0	100	100
46	AJ	365/376 (97%)	364 (100%)	1 (0%)	86	85
46	AL	365/376 (97%)	364 (100%)	1 (0%)	86	85
46	AN	365/376 (97%)	365 (100%)	0	100	100
46	BB	365/376 (97%)	365 (100%)	0	100	100
46	BD	365/376 (97%)	365 (100%)	0	100	100
46	BF	365/376 (97%)	365 (100%)	0	100	100
46	BH	365/376 (97%)	365 (100%)	0	100	100
46	BJ	365/376 (97%)	365 (100%)	0	100	100
46	BL	365/376 (97%)	364 (100%)	1 (0%)	86	85
46	BN	365/376 (97%)	365 (100%)	0	100	100
46	CB	365/376 (97%)	364 (100%)	1 (0%)	86	85
46	CD	365/376 (97%)	365 (100%)	0	100	100
46	CF	365/376 (97%)	365 (100%)	0	100	100
46	CH	365/376 (97%)	365 (100%)	0	100	100
46	CJ	365/376 (97%)	365 (100%)	0	100	100
46	CL	365/376 (97%)	365 (100%)	0	100	100
46	CN	365/376 (97%)	365 (100%)	0	100	100
46	DB	365/376 (97%)	365 (100%)	0	100	100
46	DD	365/376 (97%)	365 (100%)	0	100	100
46	DF	365/376 (97%)	365 (100%)	0	100	100
46	DH	365/376 (97%)	365 (100%)	0	100	100
46	DJ	365/376 (97%)	365 (100%)	0	100	100
46	DL	365/376 (97%)	365 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
46	DN	365/376 (97%)	365 (100%)	0	100	100
46	EB	365/376 (97%)	365 (100%)	0	100	100
46	ED	365/376 (97%)	365 (100%)	0	100	100
46	EF	365/376 (97%)	365 (100%)	0	100	100
46	EH	365/376 (97%)	365 (100%)	0	100	100
46	EJ	365/376 (97%)	365 (100%)	0	100	100
46	EL	365/376 (97%)	365 (100%)	0	100	100
46	EN	365/376 (97%)	365 (100%)	0	100	100
46	FB	365/376 (97%)	365 (100%)	0	100	100
46	FD	365/376 (97%)	365 (100%)	0	100	100
46	FF	365/376 (97%)	365 (100%)	0	100	100
46	FH	365/376 (97%)	365 (100%)	0	100	100
46	FJ	365/376 (97%)	365 (100%)	0	100	100
46	FL	365/376 (97%)	365 (100%)	0	100	100
46	FN	365/376 (97%)	365 (100%)	0	100	100
46	GB	365/376 (97%)	364 (100%)	1 (0%)	86	85
46	GD	365/376 (97%)	365 (100%)	0	100	100
46	GF	365/376 (97%)	365 (100%)	0	100	100
46	GH	365/376 (97%)	365 (100%)	0	100	100
46	GJ	365/376 (97%)	365 (100%)	0	100	100
46	GL	365/376 (97%)	364 (100%)	1 (0%)	86	85
46	GN	365/376 (97%)	365 (100%)	0	100	100
46	HB	365/376 (97%)	365 (100%)	0	100	100
46	HD	365/376 (97%)	365 (100%)	0	100	100
46	HF	365/376 (97%)	365 (100%)	0	100	100
46	HH	365/376 (97%)	365 (100%)	0	100	100
46	HJ	365/376 (97%)	365 (100%)	0	100	100
46	HL	365/376 (97%)	365 (100%)	0	100	100
46	HN	365/376 (97%)	365 (100%)	0	100	100
46	IB	365/376 (97%)	364 (100%)	1 (0%)	86	85
46	ID	365/376 (97%)	365 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
46	IF	365/376 (97%)	365 (100%)	0	100 100
46	IH	365/376 (97%)	365 (100%)	0	100 100
46	IJ	365/376 (97%)	363 (100%)	2 (0%)	81 82
46	IL	365/376 (97%)	365 (100%)	0	100 100
46	IN	365/376 (97%)	365 (100%)	0	100 100
46	JB	365/376 (97%)	365 (100%)	0	100 100
46	JD	365/376 (97%)	365 (100%)	0	100 100
46	JF	365/376 (97%)	365 (100%)	0	100 100
46	JH	365/376 (97%)	365 (100%)	0	100 100
46	JJ	365/376 (97%)	364 (100%)	1 (0%)	86 85
46	JL	365/376 (97%)	365 (100%)	0	100 100
46	JN	365/376 (97%)	365 (100%)	0	100 100
46	KB	365/376 (97%)	365 (100%)	0	100 100
46	KD	365/376 (97%)	365 (100%)	0	100 100
46	KF	365/376 (97%)	365 (100%)	0	100 100
46	KH	365/376 (97%)	365 (100%)	0	100 100
46	KJ	365/376 (97%)	365 (100%)	0	100 100
46	KL	365/376 (97%)	365 (100%)	0	100 100
46	KN	365/376 (97%)	365 (100%)	0	100 100
46	LB	365/376 (97%)	365 (100%)	0	100 100
46	LD	365/376 (97%)	365 (100%)	0	100 100
46	LF	365/376 (97%)	365 (100%)	0	100 100
46	LH	365/376 (97%)	364 (100%)	1 (0%)	86 85
46	LJ	365/376 (97%)	365 (100%)	0	100 100
46	LL	365/376 (97%)	364 (100%)	1 (0%)	86 85
46	LN	365/376 (97%)	364 (100%)	1 (0%)	86 85
46	MB	365/376 (97%)	365 (100%)	0	100 100
46	MD	365/376 (97%)	365 (100%)	0	100 100
46	MF	365/376 (97%)	365 (100%)	0	100 100
46	MH	365/376 (97%)	365 (100%)	0	100 100
46	MJ	365/376 (97%)	365 (100%)	0	100 100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
46	ML	365/376 (97%)	365 (100%)	0	100	100
46	MN	365/376 (97%)	365 (100%)	0	100	100
46	NB	359/376 (96%)	359 (100%)	0	100	100
46	ND	365/376 (97%)	365 (100%)	0	100	100
46	NF	359/376 (96%)	359 (100%)	0	100	100
46	NH	365/376 (97%)	365 (100%)	0	100	100
46	NJ	359/376 (96%)	359 (100%)	0	100	100
46	NL	365/376 (97%)	365 (100%)	0	100	100
46	NN	359/376 (96%)	359 (100%)	0	100	100
46	OB	365/376 (97%)	365 (100%)	0	100	100
46	OD	365/376 (97%)	365 (100%)	0	100	100
46	OF	365/376 (97%)	365 (100%)	0	100	100
46	OH	365/376 (97%)	365 (100%)	0	100	100
46	OJ	365/376 (97%)	365 (100%)	0	100	100
46	OL	365/376 (97%)	365 (100%)	0	100	100
46	ON	365/376 (97%)	365 (100%)	0	100	100
46	PB	365/376 (97%)	365 (100%)	0	100	100
46	PD	365/376 (97%)	365 (100%)	0	100	100
46	PF	365/376 (97%)	365 (100%)	0	100	100
46	PH	365/376 (97%)	365 (100%)	0	100	100
46	PJ	365/376 (97%)	365 (100%)	0	100	100
46	PL	365/376 (97%)	365 (100%)	0	100	100
46	PN	365/376 (97%)	365 (100%)	0	100	100
46	QB	365/376 (97%)	365 (100%)	0	100	100
46	QD	365/376 (97%)	365 (100%)	0	100	100
46	QF	365/376 (97%)	365 (100%)	0	100	100
46	QH	365/376 (97%)	365 (100%)	0	100	100
46	QJ	365/376 (97%)	365 (100%)	0	100	100
46	QL	365/376 (97%)	365 (100%)	0	100	100
46	QN	365/376 (97%)	365 (100%)	0	100	100
46	RB	365/376 (97%)	365 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
46	RD	365/376 (97%)	365 (100%)	0	100	100
46	RF	365/376 (97%)	365 (100%)	0	100	100
46	RH	365/376 (97%)	365 (100%)	0	100	100
46	RJ	365/376 (97%)	365 (100%)	0	100	100
46	RL	365/376 (97%)	365 (100%)	0	100	100
46	RN	365/376 (97%)	365 (100%)	0	100	100
46	SB	365/376 (97%)	365 (100%)	0	100	100
46	SD	365/376 (97%)	365 (100%)	0	100	100
46	SF	365/376 (97%)	365 (100%)	0	100	100
46	SH	365/376 (97%)	365 (100%)	0	100	100
46	SJ	365/376 (97%)	365 (100%)	0	100	100
46	SL	365/376 (97%)	365 (100%)	0	100	100
46	SN	365/376 (97%)	365 (100%)	0	100	100
46	TB	365/376 (97%)	365 (100%)	0	100	100
46	TD	365/376 (97%)	365 (100%)	0	100	100
46	TF	365/376 (97%)	365 (100%)	0	100	100
46	TH	365/376 (97%)	365 (100%)	0	100	100
46	TJ	365/376 (97%)	365 (100%)	0	100	100
46	TL	365/376 (97%)	365 (100%)	0	100	100
46	TN	365/376 (97%)	365 (100%)	0	100	100
46	UB	365/376 (97%)	365 (100%)	0	100	100
46	UD	365/376 (97%)	365 (100%)	0	100	100
46	UF	365/376 (97%)	365 (100%)	0	100	100
46	UH	365/376 (97%)	365 (100%)	0	100	100
46	UJ	365/376 (97%)	365 (100%)	0	100	100
46	UL	365/376 (97%)	364 (100%)	1 (0%)	86	85
46	UN	365/376 (97%)	365 (100%)	0	100	100
46	VB	365/376 (97%)	365 (100%)	0	100	100
46	VD	365/376 (97%)	365 (100%)	0	100	100
46	VF	365/376 (97%)	365 (100%)	0	100	100
46	VH	365/376 (97%)	365 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
46	VJ	365/376 (97%)	365 (100%)	0	100	100
46	VL	365/376 (97%)	365 (100%)	0	100	100
46	VN	365/376 (97%)	365 (100%)	0	100	100
46	WB	365/376 (97%)	365 (100%)	0	100	100
46	WD	365/376 (97%)	365 (100%)	0	100	100
46	WF	365/376 (97%)	365 (100%)	0	100	100
46	WH	365/376 (97%)	365 (100%)	0	100	100
46	WJ	365/376 (97%)	365 (100%)	0	100	100
46	WL	365/376 (97%)	365 (100%)	0	100	100
46	WN	365/376 (97%)	365 (100%)	0	100	100
All	All	142179/152289 (93%)	142139 (100%)	40 (0%)	100	100

All (40) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	0A	53	HIS
2	0B	150	ASN
13	0U	48	GLN
17	1F	113	ASN
8	1H	32	GLN
11	1S	118	ASN
21	2L	608	ASN
11	2S	76	GLN
14	2V	137	ASN
10	3Q	23	GLN
13	3U	48	GLN
41	6H	267	GLN
41	6H	328	ASN
46	AJ	245	GLN
46	AL	298	ASN
46	BL	247	ASN
46	CB	37	HIS
45	CG	342	GLN
45	DG	18	ASN
45	DI	133	GLN
46	GB	334	GLN
46	GL	137	HIS
46	IB	227	HIS

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Mol	Chain	Res	Type
45	IE	249	ASN
46	IJ	37	HIS
46	IJ	247	ASN
45	JC	300	ASN
45	JE	11	GLN
46	JJ	332	ASN
45	KI	128	ASN
46	LH	298	ASN
46	LL	298	ASN
45	LM	133	GLN
46	LN	247	ASN
45	NA	249	ASN
45	NA	285	GLN
45	OE	15	GLN
45	PG	133	GLN
46	UL	131	GLN
45	DC	18	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1774) such sidechains are listed below:

Mol	Chain	Res	Type
1	0A	3	GLN
1	0A	14	GLN
1	0A	91	ASN
1	0A	101	ASN
2	0B	31	ASN
2	0B	117	ASN
2	0B	150	ASN
2	0B	188	GLN
2	0B	285	GLN
3	0C	98	GLN
4	0D	79	GLN
4	0D	132	HIS
4	0D	178	ASN
4	0D	203	HIS
5	0E	55	ASN
6	0F	88	ASN
6	0F	104	ASN
6	0F	152	HIS
6	0F	216	ASN
7	0G	21	ASN
7	0G	77	ASN

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Mol	Chain	Res	Type
7	0G	97	ASN
9	0N	135	GLN
9	0N	160	GLN
9	0N	231	GLN
9	0N	270	ASN
11	0S	98	GLN
11	0S	168	HIS
11	0S	260	ASN
11	0S	305	ASN
12	0T	25	GLN
12	0T	197	GLN
12	0T	254	ASN
13	0U	29	HIS
13	0U	151	GLN
13	0U	292	HIS
13	0U	299	GLN
13	0U	537	ASN
13	0U	587	GLN
14	0V	64	HIS
14	0V	96	ASN
15	0X	41	GLN
1	1A	14	GLN
1	1A	23	HIS
1	1A	53	HIS
16	1B	19	HIS
16	1B	123	GLN
16	1B	174	ASN
16	1B	341	GLN
16	1B	489	HIS
3	1C	36	HIS
3	1C	98	GLN
4	1D	32	GLN
4	1D	80[A]	GLN
4	1D	93	GLN
4	1D	95	GLN
4	1D	185	ASN
4	1D	211	HIS
5	1E	20	ASN
5	1E	95	GLN
5	1E	136	GLN
5	1E	149	ASN
17	1F	21	GLN

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Mol	Chain	Res	Type
17	1F	25	ASN
17	1F	113	ASN
8	1H	34	HIS
8	1H	96	GLN
8	1H	151	GLN
8	1H	227	GLN
8	1H	230	GLN
8	1H	233	GLN
18	1I	84	HIS
18	1I	98	ASN
18	1I	102	GLN
18	1I	214	GLN
19	1J	175	HIS
19	1J	243	HIS
19	1J	360	GLN
19	1J	400	ASN
20	1K	96	GLN
20	1K	165	GLN
20	1K	217	HIS
20	1K	223	ASN
21	1L	168	HIS
21	1L	180	GLN
21	1L	276	GLN
21	1L	367	GLN
21	1L	523	GLN
21	1L	594	GLN
21	1L	856	HIS
21	1L	900	HIS
22	1M	30	GLN
22	1M	103	HIS
22	1M	128	GLN
22	1M	229	GLN
22	1M	268	GLN
22	1M	312	ASN
22	1M	324	HIS
9	1N	40	GLN
9	1N	127	GLN
9	1N	135	GLN
9	1N	180	ASN
9	1N	224	GLN
9	1N	353	GLN
9	1N	468	HIS

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Mol	Chain	Res	Type
23	1O	130	GLN
23	1O	159	GLN
23	1O	217	ASN
23	1O	268	ASN
23	1O	269	GLN
23	1O	270	ASN
24	1P	144	GLN
24	1P	189	HIS
24	1P	192	ASN
24	1P	225	GLN
24	1P	226	HIS
24	1P	337	GLN
24	1P	377	GLN
24	1P	386	GLN
24	1P	416	GLN
10	1Q	4	ASN
10	1Q	57	ASN
10	1Q	131	GLN
25	1R	148	GLN
25	1R	414	GLN
25	1R	493	ASN
25	1R	516	GLN
11	1S	42	ASN
11	1S	98	GLN
11	1S	115	GLN
11	1S	150	GLN
11	1S	161	GLN
11	1S	220	ASN
11	1S	266	ASN
11	1S	305	ASN
12	1T	25	GLN
12	1T	102	HIS
12	1T	104	HIS
13	1U	81	GLN
13	1U	127	ASN
13	1U	406	HIS
13	1U	463	GLN
13	1U	547	HIS
13	1U	582	GLN
13	1U	587	GLN
14	1V	41	HIS
14	1V	64	HIS

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Mol	Chain	Res	Type
14	1V	141	ASN
14	1V	224	GLN
14	1V	230	ASN
26	1W	141	GLN
26	1W	237	HIS
15	1X	73	GLN
15	1X	78	ASN
15	1X	103	ASN
15	1X	123	ASN
1	2A	3	GLN
1	2A	14	GLN
1	2A	48	GLN
1	2A	69	ASN
1	2A	136	ASN
16	2B	12	ASN
16	2B	156	GLN
27	2C	9	ASN
27	2C	156	GLN
27	2C	255	ASN
27	2C	271	ASN
4	2D	37	GLN
4	2D	72	GLN
4	2D	113	GLN
4	2D	222	ASN
5	2E	105	GLN
5	2E	180	HIS
28	2F	53	HIS
29	2G	34	HIS
29	2G	42	ASN
31	2I	61	GLN
20	2K	291	GLN
20	2K	387	GLN
21	2L	305	GLN
21	2L	403	GLN
21	2L	587	GLN
21	2L	665	GLN
21	2L	745	ASN
21	2L	750	ASN
21	2L	780	GLN
21	2L	789	GLN
22	2M	247	GLN
22	2M	324	HIS

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Mol	Chain	Res	Type
22	2M	351	HIS
9	2N	88	ASN
9	2N	222	ASN
9	2N	224	GLN
9	2N	231	GLN
23	2O	134	ASN
23	2O	203	GLN
23	2O	325	GLN
23	2O	367	GLN
23	2O	377	GLN
23	2O	387	GLN
23	2O	396	GLN
23	2O	404	GLN
23	2O	418	GLN
23	2O	430	GLN
23	2O	457	GLN
24	2P	377	GLN
24	2P	394	GLN
24	2P	395	GLN
24	2P	423	GLN
24	2P	430	ASN
24	2P	436	GLN
24	2P	439	HIS
10	2Q	7	GLN
10	2Q	131	GLN
25	2R	155	GLN
25	2R	312	GLN
25	2R	432	HIS
25	2R	447	GLN
25	2R	473	GLN
25	2R	516	GLN
11	2S	24	GLN
11	2S	150	GLN
11	2S	296	GLN
12	2T	232	HIS
13	2U	24	HIS
13	2U	56	ASN
13	2U	316	ASN
13	2U	392	GLN
13	2U	456	GLN
14	2V	137	ASN
14	2V	141	ASN

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Mol	Chain	Res	Type
14	2V	176	GLN
14	2V	186	HIS
14	2V	220	ASN
26	2W	174	GLN
26	2W	201	GLN
26	2W	212	GLN
26	2W	213	GLN
26	2W	244	ASN
26	2W	271	GLN
15	2X	97	GLN
15	2X	137	GLN
16	3B	12	ASN
16	3B	123	GLN
16	3B	220	GLN
27	3C	9	ASN
27	3C	49	GLN
27	3C	101	GLN
27	3C	118	GLN
27	3C	123	HIS
32	3D	206	HIS
5	3E	62	GLN
5	3E	105	GLN
5	3E	153	ASN
30	3H	201	ASN
23	3O	332	GLN
10	3Q	4	ASN
10	3Q	57	ASN
10	3Q	131	GLN
10	3Q	159	ASN
25	3R	30	GLN
25	3R	33	ASN
25	3R	64	ASN
25	3R	215	ASN
25	3R	238	HIS
25	3R	289	ASN
25	3R	447	GLN
11	3S	8	GLN
11	3S	10	ASN
11	3S	42	ASN
11	3S	98	GLN
11	3S	115	GLN
11	3S	149	HIS

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Mol	Chain	Res	Type
11	3S	164	GLN
11	3S	235	GLN
12	3T	217	ASN
12	3T	234	ASN
13	3U	27	ASN
13	3U	48	GLN
13	3U	56	ASN
13	3U	57	GLN
13	3U	106	GLN
13	3U	156	ASN
13	3U	311	ASN
13	3U	324	ASN
13	3U	351	ASN
13	3U	582	GLN
13	3U	587	GLN
14	3V	29	ASN
14	3V	141	ASN
14	3V	250	GLN
27	4C	9	ASN
27	4C	46	GLN
27	4C	255	ASN
27	4C	271	ASN
33	4F	152	GLN
33	4F	205	ASN
30	4H	205	GLN
30	4H	211	HIS
34	4R	128	HIS
34	4R	148	GLN
34	4R	149	GLN
34	4R	277	ASN
34	4R	293	HIS
34	4R	419	GLN
34	4R	513	HIS
34	4R	534	HIS
34	4R	583	GLN
35	4S	122	GLN
35	4S	208	GLN
35	4S	219	GLN
15	4X	41	GLN
15	4X	89	ASN
15	4X	103	ASN
15	4X	137	GLN

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Mol	Chain	Res	Type
36	5A	81	HIS
36	5A	90	GLN
36	5A	122	ASN
36	5B	122	ASN
36	5B	149	ASN
36	5C	90	GLN
36	5C	122	ASN
36	5C	142	GLN
36	5C	149	ASN
36	5C	169	HIS
36	5C	170	HIS
36	5D	90	GLN
36	5D	109	ASN
37	5E	188	GLN
37	5E	192	ASN
37	5F	88	HIS
37	5G	17	ASN
37	5G	184	GLN
10	5Q	4	ASN
10	5Q	133	GLN
34	5R	15	HIS
34	5R	20	HIS
34	5R	106	ASN
34	5R	149	GLN
34	5R	212	GLN
34	5R	317	HIS
34	5R	438	ASN
34	5R	504	GLN
34	5R	583	GLN
35	5S	81	HIS
39	6F	97	GLN
39	6F	112	HIS
40	6G	169	GLN
40	6G	253	HIS
41	6H	180	ASN
41	6H	326	HIS
34	6R	20	HIS
34	6R	30	GLN
34	6R	43	ASN
34	6R	106	ASN
34	6R	136	ASN
34	6R	148	GLN

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Mol	Chain	Res	Type
34	6R	153	GLN
34	6R	251	ASN
34	6R	277	ASN
34	7R	4	ASN
34	7R	149	GLN
34	7R	419	GLN
34	7R	438	ASN
34	7R	497	GLN
34	7R	504	GLN
45	AA	11	GLN
45	AA	15	GLN
45	AA	258	ASN
45	AA	380	ASN
46	AB	43	GLN
46	AB	100	ASN
46	AB	245	GLN
46	AB	426	GLN
45	AC	18	ASN
45	AC	28	HIS
45	AC	50	ASN
45	AC	91	GLN
45	AC	228	ASN
45	AC	283	HIS
46	AD	11	GLN
46	AD	190	HIS
46	AD	256	ASN
46	AD	384	GLN
46	AD	414	ASN
45	AE	31	GLN
45	AE	50	ASN
45	AE	101	ASN
45	AE	197	HIS
45	AE	285	GLN
46	AF	6	HIS
46	AF	11	GLN
46	AF	37	HIS
46	AF	245	GLN
46	AF	256	ASN
46	AF	279	GLN
46	AF	307	HIS
46	AF	347	ASN
46	AF	426	GLN

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Mol	Chain	Res	Type
45	AG	133	GLN
45	AG	206	ASN
45	AG	300	ASN
46	AH	43	GLN
46	AH	94	GLN
46	AH	131	GLN
46	AH	426	GLN
45	AI	85	GLN
45	AI	233	GLN
45	AI	380	ASN
46	AJ	11	GLN
46	AJ	245	GLN
46	AJ	414	ASN
45	AK	28	HIS
45	AK	300	ASN
45	AK	380	ASN
46	AL	204	ASN
46	AL	334	GLN
46	AL	414	ASN
45	AM	11	GLN
45	AM	50	ASN
45	AM	88	HIS
45	AM	91	GLN
46	AN	14	ASN
46	AN	184	ASN
46	AN	190	HIS
46	AN	279	GLN
46	AN	414	ASN
45	BA	31	GLN
45	BA	50	ASN
45	BA	91	GLN
45	BA	256	GLN
46	BB	100	ASN
46	BB	131	GLN
45	BC	15	GLN
45	BC	88	HIS
46	BD	83	GLN
46	BD	191	GLN
46	BD	247	ASN
46	BD	256	ASN
46	BD	291	GLN
46	BD	329	GLN

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Mol	Chain	Res	Type
45	BE	18	ASN
45	BE	50	ASN
45	BE	258	ASN
45	BE	329	ASN
46	BF	15	GLN
46	BF	131	GLN
45	BG	101	ASN
45	BG	249	ASN
45	BG	283	HIS
45	BG	300	ASN
46	BH	99	ASN
46	BH	131	GLN
46	BH	195	ASN
46	BH	204	ASN
46	BH	280	GLN
45	BI	329	ASN
46	BJ	131	GLN
46	BJ	134	GLN
46	BJ	337	ASN
46	BJ	414	ASN
45	BK	88	HIS
45	BK	133	GLN
45	BK	226	ASN
46	BL	94	GLN
46	BL	134	GLN
46	BL	190	HIS
46	BL	245	GLN
46	BL	247	ASN
46	BL	279	GLN
45	BM	50	ASN
45	BM	88	HIS
45	BM	133	GLN
45	BM	233	GLN
45	BM	342	GLN
46	BN	8	GLN
46	BN	279	GLN
45	CA	233	GLN
46	CB	8	GLN
46	CB	384	GLN
46	CB	414	ASN
45	CC	35	GLN
45	CC	216	ASN

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Mol	Chain	Res	Type
46	CD	191	GLN
46	CD	347	ASN
46	CD	414	ASN
46	CD	424	GLN
46	CF	6	HIS
46	CF	48	ASN
46	CF	134	GLN
46	CF	191	GLN
46	CF	256	ASN
45	CG	18	ASN
45	CG	101	ASN
45	CG	197	HIS
45	CG	406	HIS
46	CH	8	GLN
46	CH	43	GLN
46	CH	134	GLN
46	CH	137	HIS
46	CH	191	GLN
46	CH	279	GLN
46	CH	298	ASN
46	CH	384	GLN
46	CJ	89	ASN
46	CJ	99	ASN
46	CJ	191	GLN
46	CJ	227	HIS
46	CJ	256	ASN
46	CJ	280	GLN
45	CK	18	ASN
45	CK	133	GLN
45	CK	228	ASN
45	CK	258	ASN
46	CL	37	HIS
46	CL	43	GLN
46	CL	89	ASN
46	CL	99	ASN
46	CL	134	GLN
46	CL	191	GLN
46	CL	329	GLN
46	CL	414	ASN
45	CM	28	HIS
45	CM	35	GLN
45	CM	133	GLN

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Mol	Chain	Res	Type
45	CM	228	ASN
45	CM	283	HIS
46	CN	100	ASN
45	DA	61	HIS
45	DA	133	GLN
45	DA	192	HIS
45	DA	256	GLN
45	DA	258	ASN
46	DB	100	ASN
46	DB	190	HIS
46	DB	247	ASN
46	DB	347	ASN
46	DD	6	HIS
46	DD	8	GLN
46	DD	137	HIS
46	DD	298	ASN
46	DD	414	ASN
45	DE	18	ASN
45	DE	50	ASN
45	DE	85	GLN
45	DE	258	ASN
46	DF	204	ASN
46	DF	256	ASN
46	DF	329	GLN
46	DF	334	GLN
46	DF	414	ASN
46	DF	424	GLN
45	DG	11	GLN
45	DG	228	ASN
45	DG	293	ASN
46	DH	8	GLN
46	DH	14	ASN
46	DH	48	ASN
46	DH	337	ASN
45	DI	50	ASN
45	DI	380	ASN
46	DJ	8	GLN
46	DJ	37	HIS
46	DJ	43	GLN
46	DJ	195	ASN
46	DJ	329	GLN
45	DK	258	ASN

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Mol	Chain	Res	Type
45	DK	342	GLN
45	DK	358	GLN
45	DK	380	ASN
46	DL	37	HIS
46	DL	43	GLN
46	DL	94	GLN
46	DL	190	HIS
46	DL	191	GLN
46	DL	291	GLN
46	DL	329	GLN
45	DM	206	ASN
45	DM	228	ASN
45	DM	380	ASN
46	DN	100	ASN
46	DN	384	GLN
45	EA	91	GLN
45	EA	101	ASN
45	EA	128	ASN
45	EA	133	GLN
45	EA	285	GLN
46	EB	100	ASN
46	EB	298	ASN
46	EB	334	GLN
46	EB	335	ASN
45	EC	50	ASN
45	EC	197	HIS
46	ED	14	ASN
46	ED	15	GLN
46	ED	37	HIS
46	ED	99	ASN
46	ED	245	GLN
46	ED	307	HIS
46	ED	337	ASN
46	ED	384	GLN
45	EE	91	GLN
45	EE	258	ASN
46	EF	15	GLN
46	EF	43	GLN
46	EF	99	ASN
46	EF	279	GLN
46	EF	292	GLN
46	EF	298	ASN

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Mol	Chain	Res	Type
46	EF	384	GLN
46	EF	414	ASN
45	EG	28	HIS
45	EG	233	GLN
45	EG	258	ASN
45	EG	393	HIS
45	EG	406	HIS
46	EH	8	GLN
46	EH	14	ASN
46	EH	94	GLN
46	EH	99	ASN
46	EH	137	HIS
46	EH	227	HIS
46	EH	292	GLN
46	EH	424	GLN
45	EI	18	ASN
46	EJ	6	HIS
46	EJ	15	GLN
46	EJ	43	GLN
46	EJ	134	GLN
46	EJ	292	GLN
46	EJ	396	HIS
46	EJ	414	ASN
45	EK	8	HIS
45	EK	102	ASN
45	EK	228	ASN
45	EK	233	GLN
46	EL	8	GLN
46	EL	15	GLN
46	EL	190	HIS
46	EL	204	ASN
46	EL	279	GLN
46	EL	414	ASN
45	EM	50	ASN
45	EM	133	GLN
46	EN	15	GLN
46	EN	94	GLN
46	EN	134	GLN
46	EN	227	HIS
46	EN	384	GLN
45	FA	11	GLN
45	FA	197	HIS

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Mol	Chain	Res	Type
45	FA	228	ASN
46	FB	8	GLN
46	FB	14	ASN
46	FB	28	HIS
46	FB	332	ASN
45	FC	8	HIS
45	FC	11	GLN
45	FC	35	GLN
45	FC	61	HIS
45	FC	300	ASN
46	FD	14	ASN
46	FD	15	GLN
46	FD	94	GLN
46	FD	99	ASN
46	FD	134	GLN
46	FD	298	ASN
46	FD	384	GLN
45	FE	102	ASN
45	FE	192	HIS
46	FF	227	HIS
46	FF	256	ASN
46	FF	280	GLN
46	FF	298	ASN
46	FF	414	ASN
45	FG	11	GLN
45	FG	15	GLN
45	FG	31	GLN
45	FG	35	GLN
45	FG	342	GLN
46	FH	280	GLN
46	FH	298	ASN
45	FI	11	GLN
45	FI	101	ASN
45	FI	102	ASN
45	FI	128	ASN
45	FI	228	ASN
45	FI	256	GLN
45	FI	329	ASN
46	FJ	15	GLN
46	FJ	292	GLN
46	FJ	414	ASN
45	FK	206	ASN

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Mol	Chain	Res	Type
45	FK	226	ASN
45	FK	342	GLN
46	FL	11	GLN
46	FL	100	ASN
46	FL	190	HIS
46	FL	204	ASN
46	FL	384	GLN
45	FM	50	ASN
45	FM	88	HIS
45	FM	91	GLN
45	FM	101	ASN
45	FM	133	GLN
45	FM	233	GLN
45	FM	380	ASN
46	FN	15	GLN
46	FN	134	GLN
46	FN	137	HIS
46	FN	190	HIS
46	FN	191	GLN
46	FN	414	ASN
45	GA	50	ASN
45	GA	91	GLN
45	GA	107	HIS
45	GA	192	HIS
45	GA	233	GLN
45	GA	380	ASN
46	GB	100	ASN
46	GB	337	ASN
46	GD	190	HIS
46	GD	245	GLN
46	GD	332	ASN
46	GD	347	ASN
46	GD	414	ASN
45	GE	15	GLN
45	GG	11	GLN
45	GG	28	HIS
45	GG	31	GLN
45	GG	50	ASN
45	GG	258	ASN
46	GH	11	GLN
46	GH	14	ASN
46	GH	134	GLN

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Mol	Chain	Res	Type
46	GH	190	HIS
46	GH	298	ASN
45	GI	11	GLN
45	GI	15	GLN
45	GI	31	GLN
45	GI	102	ASN
45	GI	128	ASN
45	GI	285	GLN
46	GJ	6	HIS
46	GJ	337	ASN
46	GJ	426	GLN
45	GK	128	ASN
45	GK	192	HIS
45	GK	197	HIS
46	GL	134	GLN
46	GL	256	ASN
46	GL	347	ASN
46	GL	414	ASN
45	GM	11	GLN
45	GM	50	ASN
45	GM	133	GLN
45	GM	192	HIS
45	GM	197	HIS
45	GM	226	ASN
45	GM	380	ASN
46	GN	100	ASN
45	HA	35	GLN
45	HA	88	HIS
45	HA	226	ASN
45	HA	406	HIS
46	HB	43	GLN
46	HB	100	ASN
45	HC	31	GLN
45	HC	233	GLN
46	HD	134	GLN
46	HD	424	GLN
46	HD	426	GLN
45	HE	50	ASN
45	HE	85	GLN
45	HE	101	ASN
45	HE	258	ASN
45	HE	342	GLN

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Mol	Chain	Res	Type
45	HE	380	ASN
46	HF	11	GLN
46	HF	190	HIS
45	HG	28	HIS
45	HG	50	ASN
45	HG	197	HIS
46	HH	43	GLN
46	HH	100	ASN
46	HH	190	HIS
46	HH	256	ASN
45	HI	85	GLN
45	HI	226	ASN
45	HI	329	ASN
46	HJ	11	GLN
46	HJ	190	HIS
46	HJ	256	ASN
46	HJ	298	ASN
46	HJ	384	GLN
46	HJ	414	ASN
45	HK	11	GLN
45	HK	31	GLN
45	HK	50	ASN
45	HK	91	GLN
45	HK	101	ASN
45	HK	226	ASN
45	HK	249	ASN
46	HL	204	ASN
46	HL	279	GLN
46	HL	332	ASN
46	HL	414	ASN
45	HM	11	GLN
45	HM	101	ASN
45	HM	133	GLN
45	HM	233	GLN
45	HM	380	ASN
46	HN	37	HIS
46	HN	99	ASN
46	HN	190	HIS
46	HN	195	ASN
46	HN	291	GLN
46	HN	292	GLN
46	HN	329	GLN

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Mol	Chain	Res	Type
46	HN	332	ASN
46	HN	414	ASN
45	IA	50	ASN
45	IA	88	HIS
45	IA	256	GLN
45	IA	342	GLN
46	IB	100	ASN
46	IB	134	GLN
46	IB	329	GLN
46	IB	337	ASN
45	IC	15	GLN
45	IC	101	ASN
45	IC	226	ASN
45	IC	342	GLN
46	ID	94	GLN
46	ID	105	HIS
46	ID	190	HIS
46	ID	256	ASN
46	ID	264	HIS
46	ID	414	ASN
45	IE	101	ASN
45	IE	133	GLN
45	IE	197	HIS
45	IE	258	ASN
46	IF	94	GLN
46	IF	190	HIS
46	IF	384	GLN
46	IF	414	ASN
45	IG	85	GLN
45	IG	133	GLN
46	IH	6	HIS
46	IH	37	HIS
46	IH	100	ASN
46	IH	134	GLN
46	IH	329	GLN
46	IH	426	GLN
45	II	18	ASN
45	II	35	GLN
45	II	226	ASN
46	IJ	6	HIS
46	IJ	8	GLN
46	IJ	134	GLN

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Mol	Chain	Res	Type
46	IJ	195	ASN
46	IJ	247	ASN
46	IJ	264	HIS
45	IK	133	GLN
46	IL	48	ASN
46	IL	335	ASN
46	IL	414	ASN
45	IM	18	ASN
45	IM	28	HIS
45	IM	226	ASN
46	IN	8	GLN
46	IN	43	GLN
46	IN	99	ASN
46	IN	134	GLN
46	IN	280	GLN
46	IN	335	ASN
46	IN	384	GLN
45	JA	91	GLN
46	JB	6	HIS
46	JB	190	HIS
46	JB	329	GLN
46	JB	414	ASN
46	JB	416	ASN
45	JC	18	ASN
45	JC	133	GLN
46	JD	414	ASN
45	JE	11	GLN
45	JE	15	GLN
45	JE	91	GLN
45	JE	258	ASN
45	JE	358	GLN
46	JF	14	ASN
46	JF	99	ASN
46	JF	134	GLN
46	JF	256	ASN
45	JG	31	GLN
45	JG	88	HIS
45	JG	192	HIS
45	JG	197	HIS
45	JG	228	ASN
45	JG	309	HIS
46	JH	6	HIS

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Mol	Chain	Res	Type
46	JH	14	ASN
46	JH	15	GLN
46	JH	43	GLN
46	JH	89	ASN
46	JH	134	GLN
46	JH	335	ASN
46	JH	348	ASN
46	JH	424	GLN
45	JI	61	HIS
45	JI	88	HIS
45	JI	309	HIS
46	JJ	14	ASN
46	JJ	99	ASN
46	JJ	134	GLN
46	JJ	247	ASN
45	JK	50	ASN
45	JK	101	ASN
45	JK	256	GLN
45	JK	283	HIS
46	JL	137	HIS
46	JL	195	ASN
46	JL	226	ASN
46	JL	227	HIS
46	JL	329	GLN
46	JL	334	GLN
46	JL	384	GLN
46	JL	414	ASN
45	JM	8	HIS
45	JM	91	GLN
45	JM	101	ASN
45	JM	133	GLN
45	JM	233	GLN
46	JN	6	HIS
46	JN	191	GLN
46	JN	247	ASN
46	JN	280	GLN
46	JN	329	GLN
46	JN	347	ASN
46	JN	414	ASN
45	KA	11	GLN
45	KA	15	GLN
45	KA	31	GLN

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Mol	Chain	Res	Type
46	KB	6	HIS
46	KB	15	GLN
46	KB	37	HIS
46	KB	43	GLN
46	KB	83	GLN
46	KB	195	ASN
46	KB	426	GLN
45	KC	28	HIS
45	KC	35	GLN
45	KC	285	GLN
46	KD	100	ASN
46	KD	195	ASN
46	KD	298	ASN
46	KD	414	ASN
46	KD	426	GLN
45	KE	15	GLN
45	KE	28	HIS
45	KE	31	GLN
45	KE	50	ASN
45	KE	233	GLN
45	KE	283	HIS
46	KF	11	GLN
46	KF	191	GLN
46	KF	332	ASN
46	KF	334	GLN
46	KF	347	ASN
45	KG	226	ASN
46	KH	6	HIS
46	KH	247	ASN
46	KH	256	ASN
46	KH	279	GLN
46	KH	298	ASN
46	KH	307	HIS
46	KH	384	GLN
46	KH	426	GLN
45	KI	28	HIS
45	KI	85	GLN
45	KI	226	ASN
45	KI	258	ASN
45	KI	293	ASN
46	KJ	334	GLN
46	KJ	347	ASN

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Mol	Chain	Res	Type
46	KJ	423	GLN
45	KK	50	ASN
45	KK	102	ASN
45	KK	197	HIS
45	KK	226	ASN
45	KK	228	ASN
45	KK	233	GLN
46	KL	8	GLN
46	KL	195	ASN
46	KL	247	ASN
46	KL	256	ASN
46	KL	264	HIS
46	KL	384	GLN
45	KM	91	GLN
45	KM	226	ASN
45	KM	293	ASN
45	KM	309	HIS
46	KN	6	HIS
46	KN	28	HIS
46	KN	43	GLN
46	KN	94	GLN
46	KN	195	ASN
46	KN	334	GLN
46	KN	423	GLN
46	KN	426	GLN
45	LA	11	GLN
45	LA	15	GLN
45	LA	101	ASN
45	LA	228	ASN
45	LA	283	HIS
46	LB	227	HIS
46	LB	256	ASN
46	LB	334	GLN
45	LC	11	GLN
46	LD	14	ASN
46	LD	335	ASN
46	LD	414	ASN
45	LE	11	GLN
45	LE	50	ASN
45	LE	101	ASN
45	LE	216	ASN
45	LE	249	ASN

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Mol	Chain	Res	Type
45	LE	283	HIS
46	LF	89	ASN
46	LF	137	HIS
46	LF	247	ASN
46	LF	256	ASN
46	LF	279	GLN
46	LF	334	GLN
45	LG	28	HIS
45	LG	300	ASN
46	LH	204	ASN
46	LH	279	GLN
46	LH	334	GLN
45	LI	50	ASN
46	LJ	48	ASN
46	LJ	99	ASN
46	LJ	137	HIS
46	LJ	191	GLN
46	LJ	195	ASN
46	LJ	334	GLN
45	LK	11	GLN
45	LK	228	ASN
45	LK	285	GLN
45	LK	393	HIS
45	LK	406	HIS
46	LL	190	HIS
45	LM	15	GLN
45	LM	28	HIS
45	LM	233	GLN
45	LM	249	ASN
45	LM	329	ASN
46	LN	190	HIS
46	LN	191	GLN
46	LN	291	GLN
46	LN	292	GLN
46	LN	298	ASN
46	LN	334	GLN
45	MA	101	ASN
45	MA	133	GLN
45	MA	249	ASN
45	MA	329	ASN
45	MA	393	HIS
46	MB	14	ASN

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Mol	Chain	Res	Type
46	MB	43	GLN
46	MB	137	HIS
46	MB	191	GLN
46	MB	195	ASN
46	MB	279	GLN
46	MB	423	GLN
46	MB	424	GLN
46	MB	426	GLN
45	MC	11	GLN
45	MC	85	GLN
45	MC	258	ASN
46	MD	134	GLN
46	MD	191	GLN
46	MD	280	GLN
46	MD	292	GLN
46	MD	384	GLN
46	MD	414	ASN
46	MD	424	GLN
45	ME	11	GLN
45	ME	91	GLN
45	ME	102	ASN
45	ME	216	ASN
45	ME	380	ASN
45	ME	406	HIS
46	MF	37	HIS
46	MF	99	ASN
46	MF	190	HIS
46	MF	195	ASN
46	MF	334	GLN
46	MF	347	ASN
46	MF	414	ASN
46	MF	426	GLN
45	MG	11	GLN
45	MG	31	GLN
45	MG	35	GLN
45	MG	85	GLN
46	MH	334	GLN
46	MH	424	GLN
45	MI	11	GLN
45	MI	85	GLN
45	MI	226	ASN
45	MI	233	GLN

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Mol	Chain	Res	Type
45	MI	380	ASN
45	MI	393	HIS
46	MJ	11	GLN
46	MJ	37	HIS
46	MJ	134	GLN
46	MJ	195	ASN
46	MJ	337	ASN
46	MJ	414	ASN
45	MK	11	GLN
45	MK	102	ASN
45	MK	256	GLN
45	MK	258	ASN
45	MK	329	ASN
46	ML	134	GLN
46	ML	190	HIS
46	ML	291	GLN
46	ML	396	HIS
46	ML	414	ASN
45	MM	101	ASN
46	MN	11	GLN
46	MN	14	ASN
46	MN	195	ASN
46	MN	279	GLN
46	MN	298	ASN
45	NA	216	ASN
45	NA	293	ASN
46	NB	245	GLN
45	NC	8	HIS
45	NC	128	ASN
45	NC	258	ASN
45	NC	283	HIS
46	ND	8	GLN
46	ND	15	GLN
46	ND	99	ASN
46	ND	134	GLN
46	ND	347	ASN
46	ND	426	GLN
45	NE	283	HIS
46	NF	28	HIS
46	NF	43	GLN
46	NF	99	ASN
46	NF	245	GLN

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Mol	Chain	Res	Type
46	NF	335	ASN
46	NF	414	ASN
45	NG	11	GLN
45	NG	15	GLN
45	NG	31	GLN
45	NG	133	GLN
45	NG	228	ASN
46	NH	15	GLN
46	NH	99	ASN
46	NH	100	ASN
46	NH	279	GLN
46	NH	307	HIS
46	NH	334	GLN
45	NI	18	ASN
45	NI	192	HIS
45	NI	283	HIS
45	NI	342	GLN
46	NJ	43	GLN
46	NJ	94	GLN
46	NJ	256	ASN
46	NJ	414	ASN
45	NK	8	HIS
45	NK	15	GLN
45	NK	28	HIS
45	NK	91	GLN
45	NK	233	GLN
45	NK	258	ASN
45	NK	293	ASN
46	NL	15	GLN
46	NL	94	GLN
46	NL	99	ASN
46	NL	134	GLN
46	NL	190	HIS
46	NL	245	GLN
46	NL	307	HIS
46	NL	334	GLN
46	NL	424	GLN
45	NM	11	GLN
45	NM	380	ASN
46	NN	14	ASN
46	NN	99	ASN
46	NN	226	ASN

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Mol	Chain	Res	Type
46	NN	335	ASN
45	OA	15	GLN
45	OA	226	ASN
46	OB	83	GLN
46	OB	226	ASN
46	OB	227	HIS
46	OB	256	ASN
46	OB	280	GLN
46	OB	332	ASN
46	OB	384	GLN
45	OC	18	ASN
45	OC	283	HIS
45	OC	293	ASN
46	OD	335	ASN
46	OD	337	ASN
46	OD	426	GLN
45	OE	285	GLN
45	OE	406	HIS
46	OF	8	GLN
46	OF	43	GLN
46	OF	89	ASN
46	OF	227	HIS
46	OF	332	ASN
46	OF	347	ASN
45	OG	18	ASN
45	OG	91	GLN
45	OG	197	HIS
45	OG	393	HIS
46	OH	15	GLN
46	OH	131	GLN
46	OH	264	HIS
46	OH	279	GLN
46	OH	335	ASN
46	OH	414	ASN
46	OH	416	ASN
45	OI	8	HIS
45	OI	15	GLN
45	OI	50	ASN
45	OI	88	HIS
45	OI	226	ASN
45	OI	249	ASN
45	OI	342	GLN

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Mol	Chain	Res	Type
46	OJ	8	GLN
46	OJ	37	HIS
46	OJ	83	GLN
46	OJ	89	ASN
46	OJ	227	HIS
46	OJ	245	GLN
46	OJ	280	GLN
46	OJ	332	ASN
45	OK	15	GLN
45	OK	85	GLN
45	OK	226	ASN
45	OK	380	ASN
46	OL	48	ASN
46	OL	134	GLN
46	OL	195	ASN
46	OL	247	ASN
46	OL	335	ASN
46	OL	347	ASN
45	OM	8	HIS
45	OM	101	ASN
45	OM	192	HIS
45	OM	249	ASN
45	OM	300	ASN
45	OM	309	HIS
46	ON	6	HIS
46	ON	8	GLN
46	ON	332	ASN
45	PA	15	GLN
45	PA	50	ASN
45	PA	133	GLN
45	PA	358	GLN
46	PB	100	ASN
46	PB	280	GLN
46	PB	335	ASN
45	PC	15	GLN
45	PC	31	GLN
45	PC	50	ASN
45	PC	128	ASN
45	PC	285	GLN
45	PC	342	GLN
46	PD	15	GLN
46	PD	94	GLN

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Mol	Chain	Res	Type
46	PD	100	ASN
46	PD	131	GLN
46	PD	134	GLN
46	PD	227	HIS
46	PD	256	ASN
46	PD	426	GLN
45	PE	61	HIS
45	PE	88	HIS
45	PE	128	ASN
45	PE	133	GLN
45	PE	258	ASN
46	PF	137	HIS
46	PF	191	GLN
46	PF	424	GLN
45	PG	50	ASN
45	PG	85	GLN
45	PG	128	ASN
45	PG	358	GLN
46	PH	11	GLN
46	PH	247	ASN
46	PH	279	GLN
46	PH	347	ASN
46	PH	426	GLN
45	PI	15	GLN
45	PI	50	ASN
45	PI	133	GLN
45	PI	258	ASN
46	PJ	14	ASN
46	PJ	15	GLN
46	PJ	190	HIS
46	PJ	195	ASN
46	PJ	298	ASN
46	PJ	347	ASN
46	PJ	375	GLN
46	PJ	384	GLN
46	PJ	414	ASN
45	PK	11	GLN
45	PK	101	ASN
45	PK	197	HIS
45	PK	228	ASN
45	PK	256	GLN
45	PK	393	HIS

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Mol	Chain	Res	Type
46	PL	14	ASN
46	PL	37	HIS
46	PL	83	GLN
46	PL	89	ASN
46	PL	134	GLN
46	PL	334	GLN
46	PL	335	ASN
46	PL	396	HIS
45	PM	133	GLN
45	PM	233	GLN
45	PM	358	GLN
45	PM	393	HIS
45	PM	406	HIS
46	PN	11	GLN
46	PN	28	HIS
46	PN	48	ASN
46	PN	83	GLN
46	PN	131	GLN
46	PN	191	GLN
46	PN	384	GLN
46	PN	414	ASN
45	QA	101	ASN
45	QA	128	ASN
45	QA	226	ASN
46	QB	15	GLN
46	QB	191	GLN
46	QB	227	HIS
46	QB	396	HIS
46	QB	414	ASN
45	QC	15	GLN
45	QC	31	GLN
45	QC	128	ASN
45	QC	285	GLN
46	QD	15	GLN
46	QD	94	GLN
46	QD	191	GLN
46	QD	292	GLN
46	QD	337	ASN
46	QD	347	ASN
46	QD	414	ASN
45	QE	15	GLN
45	QE	88	HIS

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Mol	Chain	Res	Type
45	QE	128	ASN
45	QE	197	HIS
45	QE	258	ASN
46	QF	11	GLN
46	QF	99	ASN
46	QF	191	GLN
46	QF	292	GLN
46	QF	375	GLN
46	QF	414	ASN
46	QF	424	GLN
45	QG	197	HIS
46	QH	134	GLN
46	QH	191	GLN
46	QH	424	GLN
45	QI	11	GLN
45	QI	101	ASN
45	QI	133	GLN
45	QI	216	ASN
45	QI	283	HIS
45	QI	380	ASN
46	QJ	94	GLN
46	QJ	99	ASN
45	QK	31	GLN
45	QK	88	HIS
45	QK	128	ASN
45	QK	258	ASN
46	QL	8	GLN
46	QL	11	GLN
46	QL	99	ASN
46	QL	134	GLN
46	QL	191	GLN
46	QL	195	ASN
46	QL	247	ASN
46	QL	347	ASN
46	QL	414	ASN
46	QL	424	GLN
45	QM	15	GLN
45	QM	31	GLN
45	QM	128	ASN
45	QM	133	GLN
45	QM	176	GLN
45	QM	233	GLN

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Mol	Chain	Res	Type
45	QM	258	ASN
45	QM	285	GLN
45	QM	393	HIS
46	QN	100	ASN
46	QN	134	GLN
45	RA	50	ASN
45	RA	133	GLN
45	RA	233	GLN
45	RA	256	GLN
45	RA	258	ASN
46	RB	100	ASN
46	RB	191	GLN
45	RC	8	HIS
45	RC	15	GLN
45	RC	128	ASN
45	RC	285	GLN
46	RD	94	GLN
46	RD	134	GLN
45	RE	11	GLN
45	RE	15	GLN
45	RE	31	GLN
45	RE	102	ASN
45	RE	133	GLN
45	RE	285	GLN
46	RF	15	GLN
46	RF	226	ASN
46	RF	337	ASN
46	RF	370	ASN
46	RF	414	ASN
46	RF	423	GLN
45	RG	8	HIS
45	RG	15	GLN
45	RG	31	GLN
45	RG	91	GLN
45	RG	102	ASN
45	RG	216	ASN
45	RG	258	ASN
45	RG	380	ASN
46	RH	14	ASN
46	RH	15	GLN
46	RH	48	ASN
46	RH	191	GLN

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Mol	Chain	Res	Type
46	RH	396	HIS
46	RH	414	ASN
45	RI	31	GLN
45	RI	216	ASN
45	RI	393	HIS
46	RJ	8	GLN
46	RJ	11	GLN
46	RJ	14	ASN
46	RJ	15	GLN
46	RJ	131	GLN
46	RJ	334	GLN
46	RJ	347	ASN
45	RK	8	HIS
45	RK	15	GLN
45	RK	35	GLN
45	RK	133	GLN
45	RK	329	ASN
45	RK	380	ASN
46	RL	6	HIS
46	RL	15	GLN
46	RL	131	GLN
46	RL	256	ASN
46	RL	292	GLN
45	RM	8	HIS
45	RM	35	GLN
45	RM	102	ASN
45	RM	133	GLN
45	RM	283	HIS
45	RM	285	GLN
46	RN	100	ASN
46	RN	134	GLN
46	RN	332	ASN
45	SA	101	ASN
45	SA	133	GLN
45	SA	233	GLN
45	SA	258	ASN
46	SB	14	ASN
46	SB	43	GLN
46	SB	134	GLN
46	SB	227	HIS
46	SB	414	ASN
45	SC	28	HIS

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Mol	Chain	Res	Type
45	SC	31	GLN
45	SC	91	GLN
46	SD	6	HIS
46	SD	8	GLN
46	SD	14	ASN
46	SD	414	ASN
45	SE	11	GLN
45	SE	15	GLN
45	SE	133	GLN
45	SE	216	ASN
45	SE	249	ASN
46	SF	14	ASN
46	SF	99	ASN
46	SF	298	ASN
46	SF	414	ASN
46	SF	416	ASN
45	SG	101	ASN
45	SG	133	GLN
45	SG	192	HIS
45	SG	226	ASN
45	SG	256	GLN
46	SH	8	GLN
46	SH	190	HIS
46	SH	204	ASN
46	SH	279	GLN
46	SH	396	HIS
46	SH	414	ASN
45	SI	31	GLN
46	SJ	11	GLN
46	SJ	94	GLN
46	SJ	100	ASN
46	SJ	190	HIS
46	SJ	307	HIS
46	SJ	414	ASN
46	SJ	424	GLN
45	SK	18	ASN
45	SK	258	ASN
45	SK	380	ASN
46	SL	6	HIS
46	SL	43	GLN
46	SL	94	GLN
46	SL	195	ASN

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Mol	Chain	Res	Type
46	SL	347	ASN
46	SL	375	GLN
45	SM	31	GLN
45	SM	50	ASN
45	SM	61	HIS
45	SM	133	GLN
46	SN	227	HIS
46	SN	384	GLN
45	TA	101	ASN
45	TA	128	ASN
45	TA	133	GLN
45	TA	197	HIS
45	TA	380	ASN
46	TB	100	ASN
46	TB	137	HIS
46	TB	195	ASN
46	TB	384	GLN
45	TC	28	HIS
45	TC	31	GLN
45	TC	88	HIS
45	TC	258	ASN
45	TC	283	HIS
46	TD	11	GLN
46	TD	94	GLN
46	TD	195	ASN
46	TD	256	ASN
46	TD	329	GLN
46	TD	332	ASN
45	TE	50	ASN
45	TE	128	ASN
45	TE	197	HIS
46	TF	99	ASN
46	TF	256	ASN
46	TF	329	GLN
46	TF	384	GLN
46	TF	396	HIS
45	TG	11	GLN
45	TG	15	GLN
45	TG	31	GLN
45	TG	128	ASN
45	TG	283	HIS
46	TH	37	HIS

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Mol	Chain	Res	Type
46	TH	43	GLN
46	TH	100	ASN
46	TH	256	ASN
46	TH	279	GLN
46	TH	298	ASN
46	TH	307	HIS
45	TI	88	HIS
45	TI	101	ASN
45	TI	128	ASN
45	TI	283	HIS
46	TJ	424	GLN
45	TK	31	GLN
45	TK	128	ASN
45	TK	283	HIS
46	TL	256	ASN
46	TL	280	GLN
46	TL	292	GLN
45	TM	11	GLN
45	TM	133	GLN
45	TM	192	HIS
45	TM	197	HIS
45	TM	283	HIS
45	TM	380	ASN
46	TN	100	ASN
45	UA	101	ASN
45	UA	133	GLN
45	UA	197	HIS
45	UA	226	ASN
45	UA	380	ASN
46	UB	131	GLN
46	UB	134	GLN
46	UB	204	ASN
46	UB	245	GLN
46	UB	334	GLN
46	UB	375	GLN
46	UB	384	GLN
46	UB	426	GLN
45	UC	128	ASN
45	UC	228	ASN
45	UC	258	ASN
45	UC	283	HIS
46	UD	6	HIS

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Mol	Chain	Res	Type
46	UD	134	GLN
46	UD	396	HIS
46	UD	424	GLN
46	UF	131	GLN
46	UF	190	HIS
46	UF	279	GLN
45	UG	35	GLN
45	UG	283	HIS
46	UH	28	HIS
45	UI	128	ASN
45	UI	342	GLN
46	UJ	83	GLN
46	UJ	134	GLN
46	UJ	256	ASN
45	UK	31	GLN
45	UK	85	GLN
45	UK	91	GLN
45	UK	101	ASN
45	UK	285	GLN
46	UL	15	GLN
46	UL	134	GLN
46	UL	280	GLN
46	UL	424	GLN
45	UM	176	GLN
45	UM	192	HIS
45	UM	226	ASN
45	UM	283	HIS
45	UM	380	ASN
46	UN	190	HIS
46	UN	227	HIS
46	UN	414	ASN
45	VA	88	HIS
45	VA	226	ASN
46	VB	14	ASN
46	VB	28	HIS
46	VB	131	GLN
46	VB	245	GLN
46	VB	332	ASN
45	VC	31	GLN
45	VC	91	GLN
45	VC	233	GLN
46	VD	11	GLN

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Mol	Chain	Res	Type
46	VD	347	ASN
45	VE	88	HIS
45	VE	206	ASN
45	VE	228	ASN
46	VF	43	GLN
46	VF	48	ASN
46	VF	99	ASN
46	VF	100	ASN
46	VF	134	GLN
45	VG	31	GLN
45	VG	91	GLN
45	VG	233	GLN
45	VG	285	GLN
45	VG	293	ASN
46	VH	99	ASN
46	VH	264	HIS
46	VH	280	GLN
46	VH	335	ASN
45	VI	50	ASN
45	VI	226	ASN
46	VJ	14	ASN
46	VJ	37	HIS
46	VJ	134	GLN
45	VK	358	GLN
46	VL	14	ASN
46	VL	28	HIS
46	VL	99	ASN
46	VL	134	GLN
46	VL	191	GLN
46	VL	227	HIS
46	VL	426	GLN
45	VM	11	GLN
45	VM	85	GLN
45	VM	133	GLN
45	VM	226	ASN
45	VM	228	ASN
45	VM	380	ASN
45	VM	406	HIS
46	VN	8	GLN
46	VN	83	GLN
46	VN	131	GLN
46	VN	134	GLN

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Mol	Chain	Res	Type
46	VN	329	GLN
46	VN	335	ASN
46	VN	384	GLN
46	VN	414	ASN
45	WA	258	ASN
45	WA	285	GLN
46	WB	28	HIS
46	WB	100	ASN
46	WB	191	GLN
46	WB	247	ASN
46	WB	347	ASN
46	WB	414	ASN
45	WC	85	GLN
45	WC	133	GLN
45	WC	283	HIS
45	WC	329	ASN
46	WD	28	HIS
46	WD	227	HIS
46	WD	329	GLN
46	WD	347	ASN
46	WD	375	GLN
45	WE	133	GLN
45	WE	216	ASN
46	WF	6	HIS
46	WF	43	GLN
46	WF	48	ASN
46	WF	89	ASN
46	WF	99	ASN
46	WF	134	GLN
46	WF	137	HIS
46	WF	191	GLN
46	WF	329	GLN
45	WG	91	GLN
45	WG	128	ASN
45	WG	228	ASN
45	WG	293	ASN
46	WH	37	HIS
46	WH	190	HIS
46	WH	307	HIS
46	WH	414	ASN
46	WH	424	GLN
45	WI	28	HIS

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Mol	Chain	Res	Type
45	WI	31	GLN
45	WI	101	ASN
45	WI	197	HIS
45	WI	406	HIS
46	WJ	28	HIS
46	WJ	94	GLN
46	WJ	134	GLN
46	WJ	190	HIS
46	WJ	245	GLN
46	WJ	334	GLN
46	WJ	347	ASN
46	WJ	424	GLN
45	WK	31	GLN
45	WK	101	ASN
45	WK	406	HIS
46	WL	99	ASN
46	WL	134	GLN
46	WL	247	ASN
46	WL	384	GLN
45	WM	133	GLN
45	WM	380	ASN
46	WN	8	GLN
46	WN	100	ASN
46	WN	334	GLN
46	WN	347	ASN
45	CE	226	ASN
45	DC	216	ASN
45	DC	226	ASN
45	DC	233	GLN
45	DC	258	ASN
45	DC	283	HIS

5.3.3 RNA

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains

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

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

Of 483 ligands modelled in this entry, 161 are monoatomic - leaving 322 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	$\#\|Z\| > 2$
49	GDP	UL	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.75	7 (15%)
47	GTP	SG	501	48	33,34,34	0.90	1 (3%)	50,54,54	1.57	9 (18%)
47	GTP	AA	501	48	33,34,34	0.92	1 (3%)	50,54,54	1.60	8 (16%)
49	GDP	KB	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.74	6 (13%)
49	GDP	CB	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	7 (15%)
47	GTP	WC	501	48	33,34,34	0.93	1 (3%)	50,54,54	1.60	9 (18%)
47	GTP	NA	501	48	33,34,34	0.95	1 (3%)	50,54,54	1.58	9 (18%)
47	GTP	AM	501	48	33,34,34	0.90	1 (3%)	50,54,54	1.61	9 (18%)
49	GDP	NB	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.77	7 (15%)
47	GTP	QC	501	48	33,34,34	0.95	1 (3%)	50,54,54	1.62	9 (18%)
47	GTP	WM	501	48	33,34,34	0.94	1 (3%)	50,54,54	1.58	9 (18%)
49	GDP	SJ	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.74	8 (17%)
49	GDP	RD	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.75	7 (15%)
49	GDP	CH	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.80	7 (15%)
47	GTP	FE	501	48	33,34,34	0.90	1 (3%)	50,54,54	1.57	9 (18%)
49	GDP	HL	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
49	GDP	BF	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.77	7 (15%)
49	GDP	IL	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
49	GDP	QD	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.77	7 (15%)
47	GTP	FA	501	48	33,34,34	0.95	1 (3%)	50,54,54	1.63	8 (16%)
47	GTP	SA	501	48	33,34,34	0.96	1 (3%)	50,54,54	1.56	9 (18%)
49	GDP	DH	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.78	7 (15%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
47	GTP	EK	501	48	33,34,34	0.90	1 (3%)	50,54,54	1.58	8 (16%)
47	GTP	LC	501	48	33,34,34	0.93	1 (3%)	50,54,54	1.59	8 (16%)
49	GDP	EL	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.75	7 (15%)
49	GDP	TH	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.75	7 (15%)
49	GDP	HD	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.77	7 (15%)
49	GDP	BD	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.72	7 (15%)
49	GDP	QN	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.76	7 (15%)
49	GDP	ON	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
47	GTP	HK	501	48	33,34,34	0.88	1 (3%)	50,54,54	1.59	8 (16%)
49	GDP	DL	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.78	7 (15%)
49	GDP	TB	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.78	7 (15%)
49	GDP	SF	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.78	7 (15%)
47	GTP	CM	501	48	33,34,34	0.94	1 (3%)	50,54,54	1.58	9 (18%)
47	GTP	KE	501	48	33,34,34	0.91	1 (3%)	50,54,54	1.60	9 (18%)
49	GDP	LH	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	7 (15%)
47	GTP	EI	501	48	33,34,34	0.94	1 (3%)	50,54,54	1.58	9 (18%)
47	GTP	PK	501	48	33,34,34	0.94	1 (3%)	50,54,54	1.62	9 (18%)
47	GTP	JC	501	48	33,34,34	0.96	2 (6%)	50,54,54	1.58	8 (16%)
47	GTP	NC	501	48	33,34,34	0.93	1 (3%)	50,54,54	1.58	8 (16%)
47	GTP	UA	501	48	33,34,34	0.96	1 (3%)	50,54,54	1.57	9 (18%)
49	GDP	SB	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.80	7 (15%)
49	GDP	VD	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.81	7 (15%)
47	GTP	WK	501	48	33,34,34	0.91	1 (3%)	50,54,54	1.58	8 (16%)
47	GTP	WA	501	48	33,34,34	0.94	1 (3%)	50,54,54	1.61	8 (16%)
47	GTP	VM	501	48	33,34,34	0.95	1 (3%)	50,54,54	1.57	9 (18%)
49	GDP	SL	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.79	7 (15%)
49	GDP	CL	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
47	GTP	EG	501	48	33,34,34	0.92	1 (3%)	50,54,54	1.57	9 (18%)
47	GTP	QA	501	48	33,34,34	0.95	1 (3%)	50,54,54	1.57	9 (18%)
49	GDP	FF	501	-	29,30,30	1.13	3 (10%)	45,47,47	1.73	7 (15%)
47	GTP	BC	502	48	33,34,34	0.91	1 (3%)	50,54,54	1.59	9 (18%)
49	GDP	TJ	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
49	GDP	SH	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	8 (17%)
49	GDP	BH	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.78	8 (17%)
49	GDP	MN	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.75	7 (15%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
47	GTP	RM	501	48	33,34,34	0.92	1 (3%)	50,54,54	1.56	8 (16%)
47	GTP	RE	501	48	33,34,34	0.93	1 (3%)	50,54,54	1.60	8 (16%)
49	GDP	WB	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.78	7 (15%)
47	GTP	RA	501	48	33,34,34	0.96	1 (3%)	50,54,54	1.56	9 (18%)
49	GDP	SD	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.78	7 (15%)
47	GTP	QM	501	48	33,34,34	0.94	1 (3%)	50,54,54	1.59	9 (18%)
47	GTP	OK	501	48	33,34,34	0.93	1 (3%)	50,54,54	1.57	8 (16%)
47	GTP	KM	501	48	33,34,34	0.91	1 (3%)	50,54,54	1.59	8 (16%)
49	GDP	NF	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
47	GTP	SC	501	48	33,34,34	0.94	1 (3%)	50,54,54	1.56	8 (16%)
49	GDP	GF	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.74	7 (15%)
49	GDP	EB	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.77	7 (15%)
47	GTP	EC	501	48	33,34,34	0.92	1 (3%)	50,54,54	1.57	9 (18%)
47	GTP	VK	501	48	33,34,34	0.95	1 (3%)	50,54,54	1.60	9 (18%)
47	GTP	DA	501	-	33,34,34	0.98	2 (6%)	50,54,54	1.57	9 (18%)
47	GTP	KG	501	48	33,34,34	0.91	1 (3%)	50,54,54	1.58	9 (18%)
47	GTP	MM	501	48	33,34,34	0.93	1 (3%)	50,54,54	1.60	8 (16%)
49	GDP	PJ	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
49	GDP	EJ	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
49	GDP	KN	501	-	29,30,30	1.13	3 (10%)	45,47,47	1.72	6 (13%)
49	GDP	VB	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.77	7 (15%)
47	GTP	IA	501	48	33,34,34	0.95	1 (3%)	50,54,54	1.58	9 (18%)
49	GDP	UB	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.77	7 (15%)
47	GTP	BA	501	48	33,34,34	0.92	1 (3%)	50,54,54	1.60	9 (18%)
49	GDP	JJ	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.74	7 (15%)
49	GDP	WJ	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.78	8 (17%)
49	GDP	UH	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.76	7 (15%)
47	GTP	PA	501	48	33,34,34	0.96	2 (6%)	50,54,54	1.58	9 (18%)
49	GDP	UF	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
49	GDP	QL	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.77	7 (15%)
49	GDP	IF	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
49	GDP	CF	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.73	7 (15%)
47	GTP	IG	501	48	33,34,34	0.92	1 (3%)	50,54,54	1.59	10 (20%)
49	GDP	DJ	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.78	7 (15%)
49	GDP	WD	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.77	7 (15%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
47	GTP	KA	501	48	33,34,34	0.91	1 (3%)	50,54,54	1.57	8 (16%)
47	GTP	UI	501	48	33,34,34	0.91	1 (3%)	50,54,54	1.61	9 (18%)
49	GDP	IJ	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	7 (15%)
49	GDP	JB	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.74	7 (15%)
49	GDP	GD	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.74	7 (15%)
47	GTP	CI	501	48	33,34,34	0.92	1 (3%)	50,54,54	1.61	10 (20%)
47	GTP	CK	501	48	33,34,34	0.94	1 (3%)	50,54,54	1.60	9 (18%)
47	GTP	RI	501	48	33,34,34	0.92	1 (3%)	50,54,54	1.58	8 (16%)
49	GDP	AJ	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.81	9 (20%)
47	GTP	BM	501	48	33,34,34	0.91	1 (3%)	50,54,54	1.62	9 (18%)
47	GTP	GA	501	48	33,34,34	0.92	1 (3%)	50,54,54	1.60	9 (18%)
49	GDP	GJ	501	-	29,30,30	1.13	3 (10%)	45,47,47	1.77	7 (15%)
49	GDP	JH	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.72	6 (13%)
49	GDP	TF	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.75	7 (15%)
47	GTP	NG	501	48	33,34,34	0.95	1 (3%)	50,54,54	1.59	8 (16%)
47	GTP	JE	501	48	33,34,34	0.89	1 (3%)	50,54,54	1.59	9 (18%)
49	GDP	AF	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	7 (15%)
49	GDP	QB	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.78	7 (15%)
47	GTP	NM	501	48	33,34,34	0.94	1 (3%)	50,54,54	1.57	9 (18%)
47	GTP	JM	501	48	33,34,34	0.92	1 (3%)	50,54,54	1.59	9 (18%)
49	GDP	NJ	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
47	GTP	HI	501	48	33,34,34	0.89	1 (3%)	50,54,54	1.61	8 (16%)
47	GTP	HG	501	48	33,34,34	0.94	1 (3%)	50,54,54	1.62	9 (18%)
47	GTP	QE	501	48	33,34,34	0.97	1 (3%)	50,54,54	1.63	8 (16%)
49	GDP	JN	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
49	GDP	SN	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.77	7 (15%)
49	GDP	ND	502	-	29,30,30	1.16	3 (10%)	45,47,47	1.77	7 (15%)
49	GDP	FL	502	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
49	GDP	HN	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.76	7 (15%)
49	GDP	JL	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.74	7 (15%)
47	GTP	OI	501	48	33,34,34	0.93	1 (3%)	50,54,54	1.56	8 (16%)
47	GTP	MG	501	48	33,34,34	0.89	1 (3%)	50,54,54	1.59	9 (18%)
47	GTP	MI	501	48	33,34,34	0.90	1 (3%)	50,54,54	1.60	9 (18%)
49	GDP	VL	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.75	7 (15%)
49	GDP	LL	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	7 (15%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
47	GTP	TM	501	48	33,34,34	0.92	1 (3%)	50,54,54	1.57	9 (18%)
47	GTP	SM	501	48	33,34,34	0.96	1 (3%)	50,54,54	1.57	9 (18%)
47	GTP	AE	501	48	33,34,34	0.92	1 (3%)	50,54,54	1.60	9 (18%)
49	GDP	RF	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
47	GTP	MK	501	48	33,34,34	0.89	1 (3%)	50,54,54	1.59	9 (18%)
49	GDP	LJ	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	7 (15%)
47	GTP	VE	501	48	33,34,34	0.95	2 (6%)	50,54,54	1.62	8 (16%)
49	GDP	CD	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.78	7 (15%)
47	GTP	SI	501	48	33,34,34	0.93	1 (3%)	50,54,54	1.57	9 (18%)
47	GTP	IC	501	48	33,34,34	0.92	1 (3%)	50,54,54	1.59	9 (18%)
49	GDP	NH	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
47	GTP	NI	501	48	33,34,34	0.95	1 (3%)	50,54,54	1.58	8 (16%)
47	GTP	CC	501	48	33,34,34	0.96	2 (6%)	50,54,54	1.63	9 (18%)
47	GTP	UM	501	48	33,34,34	0.97	2 (6%)	50,54,54	1.63	9 (18%)
47	GTP	QG	501	48	33,34,34	1.00	2 (6%)	50,54,54	1.61	9 (18%)
47	GTP	AG	501	48	33,34,34	0.90	1 (3%)	50,54,54	1.61	9 (18%)
47	GTP	IK	501	48	33,34,34	0.90	1 (3%)	50,54,54	1.61	9 (18%)
49	GDP	KH	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.80	8 (17%)
49	GDP	OB	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.75	7 (15%)
47	GTP	PE	501	48	33,34,34	0.93	1 (3%)	50,54,54	1.61	8 (16%)
49	GDP	PB	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.77	7 (15%)
47	GTP	PI	501	48	33,34,34	0.92	1 (3%)	50,54,54	1.58	8 (16%)
49	GDP	CJ	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
49	GDP	OD	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
47	GTP	DG	501	48	33,34,34	0.94	1 (3%)	50,54,54	1.59	9 (18%)
47	GTP	EE	501	48	33,34,34	0.93	1 (3%)	50,54,54	1.57	9 (18%)
49	GDP	GH	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.77	8 (17%)
49	GDP	PD	502	-	29,30,30	1.16	3 (10%)	45,47,47	1.78	7 (15%)
47	GTP	JK	501	48	33,34,34	0.93	1 (3%)	50,54,54	1.60	9 (18%)
47	GTP	TE	501	48	33,34,34	0.90	1 (3%)	50,54,54	1.58	9 (18%)
49	GDP	VN	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
49	GDP	AH	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
49	GDP	NN	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
49	GDP	BB	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.77	7 (15%)
47	GTP	NE	501	48	33,34,34	0.93	1 (3%)	50,54,54	1.56	8 (16%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
47	GTP	RC	501	48	33,34,34	0.96	1 (3%)	50,54,54	1.62	9 (18%)
49	GDP	PH	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.76	7 (15%)
47	GTP	WI	501	48	33,34,34	0.94	1 (3%)	50,54,54	1.61	8 (16%)
49	GDP	HH	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
49	GDP	LB	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
49	GDP	WF	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.79	7 (15%)
47	GTP	HA	501	48	33,34,34	0.95	1 (3%)	50,54,54	1.60	9 (18%)
49	GDP	AL	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
49	GDP	BL	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
49	GDP	DD	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.79	7 (15%)
47	GTP	NK	501	48	33,34,34	0.93	1 (3%)	50,54,54	1.58	9 (18%)
47	GTP	PM	501	48	33,34,34	0.93	1 (3%)	50,54,54	1.60	9 (18%)
49	GDP	WL	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
47	GTP	DK	501	48	33,34,34	0.94	1 (3%)	50,54,54	1.61	9 (18%)
49	GDP	LD	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
49	GDP	FH	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.73	7 (15%)
49	GDP	FN	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.77	7 (15%)
49	GDP	OH	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.78	7 (15%)
47	GTP	LM	501	48	33,34,34	0.89	1 (3%)	50,54,54	1.55	9 (18%)
49	GDP	UJ	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
49	GDP	FD	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.77	7 (15%)
47	GTP	LI	501	48	33,34,34	0.89	1 (3%)	50,54,54	1.57	8 (16%)
49	GDP	FJ	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
47	GTP	QK	501	48	33,34,34	0.95	1 (3%)	50,54,54	1.59	8 (16%)
47	GTP	RG	501	48	33,34,34	0.96	1 (3%)	50,54,54	1.62	8 (16%)
47	GTP	FI	501	48	33,34,34	0.89	1 (3%)	50,54,54	1.60	8 (16%)
47	GTP	ME	501	48	33,34,34	0.93	1 (3%)	50,54,54	1.61	9 (18%)
47	GTP	LK	501	48	33,34,34	0.91	2 (6%)	50,54,54	1.60	8 (16%)
49	GDP	EF	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	7 (15%)
47	GTP	SE	501	48	33,34,34	0.89	1 (3%)	50,54,54	1.56	8 (16%)
49	GDP	PL	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.79	7 (15%)
47	GTP	QI	501	48	33,34,34	0.95	1 (3%)	50,54,54	1.61	9 (18%)
49	GDP	QF	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.78	7 (15%)
47	GTP	TK	501	48	33,34,34	0.92	1 (3%)	50,54,54	1.58	9 (18%)
49	GDP	MF	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	7 (15%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
47	GTP	AI	501	48	33,34,34	0.89	1 (3%)	50,54,54	1.61	9 (18%)
47	GTP	LA	501	48	33,34,34	0.90	1 (3%)	50,54,54	1.57	9 (18%)
49	GDP	ID	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.79	7 (15%)
47	GTP	KK	501	48	33,34,34	0.88	1 (3%)	50,54,54	1.57	8 (16%)
47	GTP	KC	501	48	33,34,34	0.92	1 (3%)	50,54,54	1.57	9 (18%)
49	GDP	UN	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
47	GTP	FK	501	48	33,34,34	0.90	1 (3%)	50,54,54	1.55	9 (18%)
47	GTP	CG	501	48	33,34,34	0.91	1 (3%)	50,54,54	1.61	8 (16%)
47	GTP	CE	501	48	33,34,34	0.91	1 (3%)	50,54,54	1.59	9 (18%)
49	GDP	IN	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.80	7 (15%)
49	GDP	VF	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
47	GTP	EM	501	48	33,34,34	0.98	2 (6%)	50,54,54	1.59	8 (16%)
49	GDP	QH	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.75	7 (15%)
47	GTP	IM	501	48	33,34,34	0.91	1 (3%)	50,54,54	1.59	9 (18%)
47	GTP	BE	501	48	33,34,34	0.91	1 (3%)	50,54,54	1.60	8 (16%)
47	GTP	HM	501	48	33,34,34	0.97	2 (6%)	50,54,54	1.58	9 (18%)
47	GTP	OG	501	48	33,34,34	0.93	1 (3%)	50,54,54	1.57	8 (16%)
49	GDP	OL	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.75	7 (15%)
47	GTP	UG	501	48	33,34,34	0.94	1 (3%)	50,54,54	1.57	9 (18%)
49	GDP	KF	501	-	29,30,30	1.13	3 (10%)	45,47,47	1.75	6 (13%)
47	GTP	CA	501	48	33,34,34	0.96	1 (3%)	50,54,54	1.57	9 (18%)
49	GDP	QJ	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.79	7 (15%)
47	GTP	OM	501	48	33,34,34	0.98	2 (6%)	50,54,54	1.58	8 (16%)
49	GDP	KL	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	7 (15%)
49	GDP	AD	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.78	7 (15%)
49	GDP	MB	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
49	GDP	AN	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.78	7 (15%)
47	GTP	VC	501	48	33,34,34	0.92	1 (3%)	50,54,54	1.63	8 (16%)
49	GDP	NL	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.76	7 (15%)
49	GDP	HB	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.77	7 (15%)
49	GDP	MD	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.78	7 (15%)
47	GTP	IE	501	48	33,34,34	0.94	2 (6%)	50,54,54	1.63	9 (18%)
47	GTP	AC	501	48	33,34,34	0.92	1 (3%)	50,54,54	1.60	9 (18%)
47	GTP	VI	501	48	33,34,34	0.90	1 (3%)	50,54,54	1.57	8 (16%)
49	GDP	GL	502	-	29,30,30	1.16	3 (10%)	45,47,47	1.74	7 (15%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
49	GDP	IB	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.76	7 (15%)
47	GTP	DE	501	48	33,34,34	0.94	1 (3%)	50,54,54	1.59	9 (18%)
47	GTP	II	501	48	33,34,34	0.92	2 (6%)	50,54,54	1.57	9 (18%)
47	GTP	DC	501	48	33,34,34	0.95	1 (3%)	50,54,54	1.60	9 (18%)
47	GTP	KI	501	48	33,34,34	0.89	1 (3%)	50,54,54	1.58	9 (18%)
49	GDP	PN	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.78	7 (15%)
47	GTP	UC	501	48	33,34,34	0.92	1 (3%)	50,54,54	1.58	9 (18%)
49	GDP	ED	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.77	7 (15%)
49	GDP	TN	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.77	7 (15%)
49	GDP	EH	501	-	29,30,30	1.18	3 (10%)	45,47,47	1.76	7 (15%)
47	GTP	DI	501	48	33,34,34	0.92	1 (3%)	50,54,54	1.60	8 (16%)
47	GTP	JA	501	48	33,34,34	0.89	1 (3%)	50,54,54	1.58	9 (18%)
49	GDP	RN	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.77	7 (15%)
49	GDP	RB	501	-	29,30,30	1.19	3 (10%)	45,47,47	1.82	7 (15%)
49	GDP	DB	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.77	7 (15%)
47	GTP	FG	501	48	33,34,34	0.88	1 (3%)	50,54,54	1.57	9 (18%)
49	GDP	MH	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
49	GDP	LF	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.74	7 (15%)
47	GTP	FM	501	48	33,34,34	0.96	1 (3%)	50,54,54	1.57	9 (18%)
47	GTP	HC	501	48	33,34,34	0.88	1 (3%)	50,54,54	1.60	8 (16%)
47	GTP	TC	501	48	33,34,34	0.93	1 (3%)	50,54,54	1.58	8 (16%)
47	GTP	EA	501	48	33,34,34	0.95	1 (3%)	50,54,54	1.57	9 (18%)
47	GTP	TA	501	48	33,34,34	0.95	1 (3%)	50,54,54	1.57	9 (18%)
49	GDP	KJ	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.75	5 (11%)
49	GDP	CN	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.77	7 (15%)
49	GDP	VJ	501	-	29,30,30	1.13	3 (10%)	45,47,47	1.76	7 (15%)
49	GDP	DF	501	-	29,30,30	1.17	3 (10%)	45,47,47	1.77	7 (15%)
47	GTP	WE	501	48	33,34,34	0.90	1 (3%)	50,54,54	1.59	9 (18%)
49	GDP	RL	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.76	7 (15%)
47	GTP	GI	501	48	33,34,34	0.91	1 (3%)	50,54,54	1.59	9 (18%)
49	GDP	WH	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	7 (15%)
49	GDP	AB	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.80	7 (15%)
49	GDP	GB	502	-	29,30,30	1.17	3 (10%)	45,47,47	1.77	7 (15%)
47	GTP	SK	501	48	33,34,34	0.90	1 (3%)	50,54,54	1.56	8 (16%)
47	GTP	BI	501	48	33,34,34	0.93	1 (3%)	50,54,54	1.60	9 (18%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
49	GDP	LN	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
47	GTP	MC	501	48	33,34,34	0.91	1 (3%)	50,54,54	1.58	9 (18%)
49	GDP	GN	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
49	GDP	OF	502	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
47	GTP	MA	501	48	33,34,34	0.90	1 (3%)	50,54,54	1.60	8 (16%)
47	GTP	VG	501	48	33,34,34	0.90	1 (3%)	50,54,54	1.59	9 (18%)
47	GTP	TI	501	48	33,34,34	0.90	1 (3%)	50,54,54	1.54	9 (18%)
49	GDP	BN	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.79	7 (15%)
49	GDP	RH	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.75	7 (15%)
47	GTP	LG	501	48	33,34,34	0.95	1 (3%)	50,54,54	1.57	8 (16%)
49	GDP	UD	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
47	GTP	VA	501	48	33,34,34	0.91	1 (3%)	50,54,54	1.58	9 (18%)
49	GDP	OJ	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
47	GTP	JG	501	48	33,34,34	0.91	1 (3%)	50,54,54	1.59	9 (18%)
47	GTP	FC	501	48	33,34,34	0.91	1 (3%)	50,54,54	1.59	8 (16%)
47	GTP	UK	501	48	33,34,34	0.94	1 (3%)	50,54,54	1.59	9 (18%)
49	GDP	MJ	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.76	7 (15%)
49	GDP	IH	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.74	7 (15%)
49	GDP	HJ	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	6 (13%)
49	GDP	VH	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.77	7 (15%)
49	GDP	RJ	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.76	7 (15%)
49	GDP	TD	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.75	7 (15%)
49	GDP	BJ	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.78	7 (15%)
47	GTP	GC	501	48	33,34,34	0.90	1 (3%)	50,54,54	1.60	9 (18%)
47	GTP	GM	501	48	33,34,34	0.95	1 (3%)	50,54,54	1.56	9 (18%)
47	GTP	AK	501	48	33,34,34	0.95	2 (6%)	50,54,54	1.59	8 (16%)
47	GTP	LE	501	48	33,34,34	0.90	1 (3%)	50,54,54	1.60	8 (16%)
47	GTP	RK	501	48	33,34,34	0.92	1 (3%)	50,54,54	1.63	9 (18%)
49	GDP	DN	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.77	7 (15%)
47	GTP	PG	501	48	33,34,34	0.93	1 (3%)	50,54,54	1.60	9 (18%)
47	GTP	OF	501	48	33,34,34	0.95	1 (3%)	50,54,54	1.58	8 (16%)
47	GTP	OC	501	48	33,34,34	0.95	1 (3%)	50,54,54	1.59	8 (16%)
49	GDP	ML	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
47	GTP	WG	501	48	33,34,34	0.92	1 (3%)	50,54,54	1.59	9 (18%)
47	GTP	GK	501	48	33,34,34	0.91	1 (3%)	50,54,54	1.58	8 (16%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
47	GTP	HE	501	48	33,34,34	0.89	1 (3%)	50,54,54	1.63	8 (16%)
49	GDP	FB	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.77	7 (15%)
49	GDP	KD	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.74	7 (15%)
47	GTP	GG	501	48	33,34,34	0.90	1 (3%)	50,54,54	1.59	8 (16%)
49	GDP	HF	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.75	7 (15%)
47	GTP	DM	501	48	33,34,34	0.93	1 (3%)	50,54,54	1.57	8 (16%)
47	GTP	BG	501	48	33,34,34	0.92	1 (3%)	50,54,54	1.61	9 (18%)
47	GTP	UE	501	48	33,34,34	0.90	1 (3%)	50,54,54	1.59	9 (18%)
49	GDP	JF	501	-	29,30,30	1.14	3 (10%)	45,47,47	1.76	7 (15%)
47	GTP	PD	501	48	33,34,34	0.93	1 (3%)	50,54,54	1.58	9 (18%)
49	GDP	JD	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	6 (13%)
49	GDP	PF	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.76	7 (15%)
47	GTP	BK	501	48	33,34,34	0.91	1 (3%)	50,54,54	1.60	9 (18%)
47	GTP	JI	501	48	33,34,34	0.87	1 (3%)	50,54,54	1.58	9 (18%)
47	GTP	OA	501	48	33,34,34	0.97	1 (3%)	50,54,54	1.60	8 (16%)
49	GDP	TL	501	-	29,30,30	1.15	3 (10%)	45,47,47	1.78	7 (15%)
49	GDP	WN	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.79	7 (15%)
49	GDP	EN	501	-	29,30,30	1.16	3 (10%)	45,47,47	1.77	6 (13%)
47	GTP	GE	501	48	33,34,34	0.89	1 (3%)	50,54,54	1.60	9 (18%)
47	GTP	TG	501	48	33,34,34	0.92	1 (3%)	50,54,54	1.53	8 (16%)

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
49	GDP	UL	501	-	-	0/16/32/32	0/3/3/3
47	GTP	SG	501	48	-	8/22/38/38	0/3/3/3
47	GTP	AA	501	48	-	7/22/38/38	0/3/3/3
49	GDP	KB	501	-	-	0/16/32/32	0/3/3/3
49	GDP	CB	501	-	-	0/16/32/32	0/3/3/3
47	GTP	WC	501	48	-	7/22/38/38	0/3/3/3
47	GTP	NA	501	48	-	8/22/38/38	0/3/3/3
47	GTP	AM	501	48	-	8/22/38/38	0/3/3/3
49	GDP	NB	501	-	-	1/16/32/32	0/3/3/3
47	GTP	QC	501	48	-	5/22/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
47	GTP	WM	501	48	-	8/22/38/38	0/3/3/3
49	GDP	SJ	501	-	-	0/16/32/32	0/3/3/3
49	GDP	RD	501	-	-	0/16/32/32	0/3/3/3
49	GDP	CH	501	-	-	1/16/32/32	0/3/3/3
47	GTP	FE	501	48	-	9/22/38/38	0/3/3/3
49	GDP	HL	501	-	-	1/16/32/32	0/3/3/3
49	GDP	BF	501	-	-	1/16/32/32	0/3/3/3
49	GDP	IL	501	-	-	0/16/32/32	0/3/3/3
49	GDP	QD	501	-	-	0/16/32/32	0/3/3/3
47	GTP	FA	501	48	-	8/22/38/38	0/3/3/3
47	GTP	SA	501	48	-	7/22/38/38	0/3/3/3
49	GDP	DH	501	-	-	0/16/32/32	0/3/3/3
47	GTP	EK	501	48	-	7/22/38/38	0/3/3/3
47	GTP	LC	501	48	-	5/22/38/38	0/3/3/3
49	GDP	EL	501	-	-	0/16/32/32	0/3/3/3
49	GDP	TH	501	-	-	1/16/32/32	0/3/3/3
49	GDP	HD	501	-	-	1/16/32/32	0/3/3/3
49	GDP	BD	501	-	-	1/16/32/32	0/3/3/3
49	GDP	QN	501	-	-	0/16/32/32	0/3/3/3
49	GDP	ON	501	-	-	0/16/32/32	0/3/3/3
47	GTP	HK	501	48	-	8/22/38/38	0/3/3/3
49	GDP	DL	501	-	-	0/16/32/32	0/3/3/3
49	GDP	TB	501	-	-	1/16/32/32	0/3/3/3
49	GDP	SF	501	-	-	1/16/32/32	0/3/3/3
47	GTP	CM	501	48	-	7/22/38/38	0/3/3/3
47	GTP	KE	501	48	-	6/22/38/38	0/3/3/3
49	GDP	LH	501	-	-	3/16/32/32	0/3/3/3
47	GTP	EI	501	48	-	7/22/38/38	0/3/3/3
47	GTP	PK	501	48	-	6/22/38/38	0/3/3/3
47	GTP	JC	501	48	-	5/22/38/38	0/3/3/3
47	GTP	NC	501	48	-	5/22/38/38	0/3/3/3
47	GTP	UA	501	48	-	8/22/38/38	0/3/3/3
49	GDP	SB	501	-	-	1/16/32/32	0/3/3/3
49	GDP	VD	501	-	-	1/16/32/32	0/3/3/3
47	GTP	WK	501	48	-	8/22/38/38	0/3/3/3
47	GTP	WA	501	48	-	6/22/38/38	0/3/3/3
47	GTP	VM	501	48	-	8/22/38/38	0/3/3/3
49	GDP	SL	501	-	-	2/16/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
49	GDP	CL	501	-	-	0/16/32/32	0/3/3/3
47	GTP	EG	501	48	-	7/22/38/38	0/3/3/3
47	GTP	QA	501	48	-	8/22/38/38	0/3/3/3
49	GDP	FF	501	-	-	0/16/32/32	0/3/3/3
47	GTP	BC	502	48	-	9/22/38/38	0/3/3/3
49	GDP	TJ	501	-	-	2/16/32/32	0/3/3/3
49	GDP	SH	501	-	-	1/16/32/32	0/3/3/3
49	GDP	BH	501	-	-	0/16/32/32	0/3/3/3
49	GDP	MN	501	-	-	0/16/32/32	0/3/3/3
47	GTP	RM	501	48	-	9/22/38/38	0/3/3/3
47	GTP	RE	501	48	-	8/22/38/38	0/3/3/3
49	GDP	WB	501	-	-	0/16/32/32	0/3/3/3
47	GTP	RA	501	48	-	8/22/38/38	0/3/3/3
49	GDP	SD	501	-	-	2/16/32/32	0/3/3/3
47	GTP	QM	501	48	-	8/22/38/38	0/3/3/3
47	GTP	OK	501	48	-	5/22/38/38	0/3/3/3
47	GTP	KM	501	48	-	6/22/38/38	0/3/3/3
49	GDP	NF	501	-	-	1/16/32/32	0/3/3/3
47	GTP	SC	501	48	-	7/22/38/38	0/3/3/3
49	GDP	GF	501	-	-	1/16/32/32	0/3/3/3
49	GDP	EB	501	-	-	0/16/32/32	0/3/3/3
47	GTP	EC	501	48	-	7/22/38/38	0/3/3/3
47	GTP	VK	501	48	-	9/22/38/38	0/3/3/3
47	GTP	DA	501	-	-	8/22/38/38	0/3/3/3
47	GTP	KG	501	48	-	7/22/38/38	0/3/3/3
47	GTP	MM	501	48	-	6/22/38/38	0/3/3/3
49	GDP	PJ	501	-	-	0/16/32/32	0/3/3/3
49	GDP	EJ	501	-	-	1/16/32/32	0/3/3/3
49	GDP	KN	501	-	-	0/16/32/32	0/3/3/3
49	GDP	VB	501	-	-	0/16/32/32	0/3/3/3
47	GTP	IA	501	48	-	8/22/38/38	0/3/3/3
49	GDP	UB	501	-	-	1/16/32/32	0/3/3/3
47	GTP	BA	501	48	-	7/22/38/38	0/3/3/3
49	GDP	JJ	501	-	-	1/16/32/32	0/3/3/3
49	GDP	WJ	501	-	-	2/16/32/32	0/3/3/3
49	GDP	UH	501	-	-	0/16/32/32	0/3/3/3
47	GTP	PA	501	48	-	8/22/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
49	GDP	UF	501	-	-	1/16/32/32	0/3/3/3
49	GDP	QL	501	-	-	0/16/32/32	0/3/3/3
49	GDP	IF	501	-	-	0/16/32/32	0/3/3/3
49	GDP	CF	501	-	-	0/16/32/32	0/3/3/3
47	GTP	IG	501	48	-	8/22/38/38	0/3/3/3
49	GDP	DJ	501	-	-	0/16/32/32	0/3/3/3
49	GDP	WD	501	-	-	0/16/32/32	0/3/3/3
47	GTP	KA	501	48	-	8/22/38/38	0/3/3/3
47	GTP	UI	501	48	-	8/22/38/38	0/3/3/3
49	GDP	IJ	501	-	-	0/16/32/32	0/3/3/3
49	GDP	JB	501	-	-	1/16/32/32	0/3/3/3
49	GDP	GD	501	-	-	1/16/32/32	0/3/3/3
47	GTP	CI	501	48	-	4/22/38/38	0/3/3/3
47	GTP	CK	501	48	-	7/22/38/38	0/3/3/3
47	GTP	RI	501	48	-	7/22/38/38	0/3/3/3
49	GDP	AJ	501	-	-	1/16/32/32	0/3/3/3
47	GTP	BM	501	48	-	7/22/38/38	0/3/3/3
47	GTP	GA	501	48	-	8/22/38/38	0/3/3/3
49	GDP	GJ	501	-	-	1/16/32/32	0/3/3/3
49	GDP	JH	501	-	-	1/16/32/32	0/3/3/3
49	GDP	TF	501	-	-	1/16/32/32	0/3/3/3
47	GTP	NG	501	48	-	7/22/38/38	0/3/3/3
47	GTP	JE	501	48	-	7/22/38/38	0/3/3/3
49	GDP	AF	501	-	-	1/16/32/32	0/3/3/3
49	GDP	QB	501	-	-	1/16/32/32	0/3/3/3
47	GTP	NM	501	48	-	5/22/38/38	0/3/3/3
47	GTP	JM	501	48	-	8/22/38/38	0/3/3/3
49	GDP	NJ	501	-	-	1/16/32/32	0/3/3/3
47	GTP	HI	501	48	-	9/22/38/38	0/3/3/3
47	GTP	HG	501	48	-	9/22/38/38	0/3/3/3
47	GTP	QE	501	48	-	7/22/38/38	0/3/3/3
49	GDP	JN	501	-	-	0/16/32/32	0/3/3/3
49	GDP	SN	501	-	-	0/16/32/32	0/3/3/3
49	GDP	ND	502	-	-	1/16/32/32	0/3/3/3
49	GDP	FL	502	-	-	1/16/32/32	0/3/3/3
49	GDP	HN	501	-	-	0/16/32/32	0/3/3/3
49	GDP	JL	501	-	-	1/16/32/32	0/3/3/3
47	GTP	OI	501	48	-	5/22/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
47	GTP	MG	501	48	-	7/22/38/38	0/3/3/3
47	GTP	MI	501	48	-	7/22/38/38	0/3/3/3
49	GDP	VL	501	-	-	0/16/32/32	0/3/3/3
49	GDP	LL	501	-	-	3/16/32/32	0/3/3/3
47	GTP	TM	501	48	-	8/22/38/38	0/3/3/3
47	GTP	SM	501	48	-	8/22/38/38	0/3/3/3
47	GTP	AE	501	48	-	9/22/38/38	0/3/3/3
49	GDP	RF	501	-	-	2/16/32/32	0/3/3/3
47	GTP	MK	501	48	-	7/22/38/38	0/3/3/3
49	GDP	LJ	501	-	-	2/16/32/32	0/3/3/3
47	GTP	VE	501	48	-	7/22/38/38	0/3/3/3
49	GDP	CD	501	-	-	1/16/32/32	0/3/3/3
47	GTP	SI	501	48	-	7/22/38/38	0/3/3/3
47	GTP	IC	501	48	-	9/22/38/38	0/3/3/3
49	GDP	NH	501	-	-	0/16/32/32	0/3/3/3
47	GTP	NI	501	48	-	5/22/38/38	0/3/3/3
47	GTP	CC	501	48	-	5/22/38/38	0/3/3/3
47	GTP	UM	501	48	-	8/22/38/38	0/3/3/3
47	GTP	QG	501	48	-	5/22/38/38	0/3/3/3
47	GTP	AG	501	48	-	8/22/38/38	0/3/3/3
47	GTP	IK	501	48	-	8/22/38/38	0/3/3/3
49	GDP	KH	501	-	-	0/16/32/32	0/3/3/3
49	GDP	OB	501	-	-	0/16/32/32	0/3/3/3
47	GTP	PE	501	48	-	7/22/38/38	0/3/3/3
49	GDP	PB	501	-	-	0/16/32/32	0/3/3/3
47	GTP	PI	501	48	-	6/22/38/38	0/3/3/3
49	GDP	CJ	501	-	-	1/16/32/32	0/3/3/3
49	GDP	OD	501	-	-	0/16/32/32	0/3/3/3
47	GTP	DG	501	48	-	7/22/38/38	0/3/3/3
47	GTP	EE	501	48	-	8/22/38/38	0/3/3/3
49	GDP	GH	501	-	-	0/16/32/32	0/3/3/3
49	GDP	PD	502	-	-	0/16/32/32	0/3/3/3
47	GTP	JK	501	48	-	9/22/38/38	0/3/3/3
47	GTP	TE	501	48	-	8/22/38/38	0/3/3/3
49	GDP	VN	501	-	-	1/16/32/32	0/3/3/3
49	GDP	AH	501	-	-	0/16/32/32	0/3/3/3
49	GDP	NN	501	-	-	1/16/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
49	GDP	BB	501	-	-	0/16/32/32	0/3/3/3
47	GTP	NE	501	48	-	7/22/38/38	0/3/3/3
47	GTP	RC	501	48	-	8/22/38/38	0/3/3/3
49	GDP	PH	501	-	-	0/16/32/32	0/3/3/3
47	GTP	WI	501	48	-	7/22/38/38	0/3/3/3
49	GDP	HH	501	-	-	0/16/32/32	0/3/3/3
49	GDP	LB	501	-	-	0/16/32/32	0/3/3/3
49	GDP	WF	501	-	-	0/16/32/32	0/3/3/3
47	GTP	HA	501	48	-	7/22/38/38	0/3/3/3
49	GDP	AL	501	-	-	1/16/32/32	0/3/3/3
49	GDP	BL	501	-	-	0/16/32/32	0/3/3/3
49	GDP	DD	501	-	-	1/16/32/32	0/3/3/3
47	GTP	NK	501	48	-	6/22/38/38	0/3/3/3
47	GTP	PM	501	48	-	7/22/38/38	0/3/3/3
49	GDP	WL	501	-	-	1/16/32/32	0/3/3/3
47	GTP	DK	501	48	-	7/22/38/38	0/3/3/3
49	GDP	LD	501	-	-	3/16/32/32	0/3/3/3
49	GDP	FH	501	-	-	1/16/32/32	0/3/3/3
49	GDP	FN	501	-	-	1/16/32/32	0/3/3/3
49	GDP	OH	501	-	-	1/16/32/32	0/3/3/3
47	GTP	LM	501	48	-	7/22/38/38	0/3/3/3
49	GDP	UJ	501	-	-	0/16/32/32	0/3/3/3
49	GDP	FD	501	-	-	1/16/32/32	0/3/3/3
47	GTP	LI	501	48	-	8/22/38/38	0/3/3/3
49	GDP	FJ	501	-	-	3/16/32/32	0/3/3/3
47	GTP	QK	501	48	-	9/22/38/38	0/3/3/3
47	GTP	RG	501	48	-	8/22/38/38	0/3/3/3
47	GTP	FI	501	48	-	8/22/38/38	0/3/3/3
47	GTP	ME	501	48	-	8/22/38/38	0/3/3/3
47	GTP	LK	501	48	-	9/22/38/38	0/3/3/3
49	GDP	EF	501	-	-	1/16/32/32	0/3/3/3
47	GTP	SE	501	48	-	8/22/38/38	0/3/3/3
49	GDP	PL	501	-	-	0/16/32/32	0/3/3/3
47	GTP	QI	501	48	-	8/22/38/38	0/3/3/3
49	GDP	QF	501	-	-	0/16/32/32	0/3/3/3
47	GTP	TK	501	48	-	8/22/38/38	0/3/3/3
49	GDP	MF	501	-	-	0/16/32/32	0/3/3/3
47	GTP	AI	501	48	-	7/22/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
47	GTP	LA	501	48	-	8/22/38/38	0/3/3/3
49	GDP	ID	501	-	-	1/16/32/32	0/3/3/3
47	GTP	KK	501	48	-	6/22/38/38	0/3/3/3
47	GTP	KC	501	48	-	6/22/38/38	0/3/3/3
49	GDP	UN	501	-	-	1/16/32/32	0/3/3/3
47	GTP	FK	501	48	-	8/22/38/38	0/3/3/3
47	GTP	CG	501	48	-	8/22/38/38	0/3/3/3
47	GTP	CE	501	48	-	8/22/38/38	0/3/3/3
49	GDP	IN	501	-	-	1/16/32/32	0/3/3/3
49	GDP	VF	501	-	-	1/16/32/32	0/3/3/3
47	GTP	EM	501	48	-	9/22/38/38	0/3/3/3
49	GDP	QH	501	-	-	0/16/32/32	0/3/3/3
47	GTP	IM	501	48	-	8/22/38/38	0/3/3/3
47	GTP	BE	501	48	-	9/22/38/38	0/3/3/3
47	GTP	HM	501	48	-	8/22/38/38	0/3/3/3
47	GTP	OG	501	48	-	8/22/38/38	0/3/3/3
49	GDP	OL	501	-	-	0/16/32/32	0/3/3/3
47	GTP	UG	501	48	-	8/22/38/38	0/3/3/3
49	GDP	KF	501	-	-	0/16/32/32	0/3/3/3
47	GTP	CA	501	48	-	9/22/38/38	0/3/3/3
49	GDP	QJ	501	-	-	0/16/32/32	0/3/3/3
47	GTP	OM	501	48	-	4/22/38/38	0/3/3/3
49	GDP	KL	501	-	-	1/16/32/32	0/3/3/3
49	GDP	AD	501	-	-	0/16/32/32	0/3/3/3
49	GDP	MB	501	-	-	3/16/32/32	0/3/3/3
49	GDP	AN	501	-	-	1/16/32/32	0/3/3/3
47	GTP	VC	501	48	-	9/22/38/38	0/3/3/3
49	GDP	NL	501	-	-	0/16/32/32	0/3/3/3
49	GDP	HB	501	-	-	0/16/32/32	0/3/3/3
49	GDP	MD	501	-	-	3/16/32/32	0/3/3/3
47	GTP	IE	501	48	-	8/22/38/38	0/3/3/3
47	GTP	AC	501	48	-	8/22/38/38	0/3/3/3
47	GTP	VI	501	48	-	8/22/38/38	0/3/3/3
49	GDP	GL	502	-	-	1/16/32/32	0/3/3/3
49	GDP	IB	501	-	-	1/16/32/32	0/3/3/3
47	GTP	DE	501	48	-	7/22/38/38	0/3/3/3
47	GTP	II	501	48	-	8/22/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
47	GTP	DC	501	48	-	8/22/38/38	0/3/3/3
47	GTP	KI	501	48	-	7/22/38/38	0/3/3/3
49	GDP	PN	502	-	-	0/16/32/32	0/3/3/3
47	GTP	UC	501	48	-	6/22/38/38	0/3/3/3
49	GDP	ED	501	-	-	0/16/32/32	0/3/3/3
49	GDP	TN	501	-	-	0/16/32/32	0/3/3/3
49	GDP	EH	501	-	-	1/16/32/32	0/3/3/3
47	GTP	DI	501	48	-	8/22/38/38	0/3/3/3
47	GTP	JA	501	48	-	7/22/38/38	0/3/3/3
49	GDP	RN	501	-	-	0/16/32/32	0/3/3/3
49	GDP	RB	501	-	-	0/16/32/32	0/3/3/3
49	GDP	DB	501	-	-	0/16/32/32	0/3/3/3
47	GTP	FG	501	48	-	8/22/38/38	0/3/3/3
49	GDP	MH	501	-	-	1/16/32/32	0/3/3/3
49	GDP	LF	501	-	-	2/16/32/32	0/3/3/3
47	GTP	FM	501	48	-	8/22/38/38	0/3/3/3
47	GTP	HC	501	48	-	7/22/38/38	0/3/3/3
47	GTP	TC	501	48	-	8/22/38/38	0/3/3/3
47	GTP	EA	501	48	-	8/22/38/38	0/3/3/3
47	GTP	TA	501	48	-	8/22/38/38	0/3/3/3
49	GDP	KJ	501	-	-	0/16/32/32	0/3/3/3
49	GDP	CN	501	-	-	0/16/32/32	0/3/3/3
49	GDP	VJ	501	-	-	0/16/32/32	0/3/3/3
49	GDP	DF	501	-	-	1/16/32/32	0/3/3/3
47	GTP	WE	501	48	-	8/22/38/38	0/3/3/3
49	GDP	RL	501	-	-	0/16/32/32	0/3/3/3
47	GTP	GI	501	48	-	9/22/38/38	0/3/3/3
49	GDP	WH	501	-	-	1/16/32/32	0/3/3/3
49	GDP	AB	501	-	-	2/16/32/32	0/3/3/3
49	GDP	GB	502	-	-	0/16/32/32	0/3/3/3
47	GTP	SK	501	48	-	8/22/38/38	0/3/3/3
47	GTP	BI	501	48	-	8/22/38/38	0/3/3/3
49	GDP	LN	501	-	-	0/16/32/32	0/3/3/3
47	GTP	MC	501	48	-	8/22/38/38	0/3/3/3
49	GDP	GN	502	-	-	0/16/32/32	0/3/3/3
49	GDP	OF	502	-	-	0/16/32/32	0/3/3/3
47	GTP	MA	501	48	-	9/22/38/38	0/3/3/3
47	GTP	VG	501	48	-	8/22/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
47	GTP	TI	501	48	-	7/22/38/38	0/3/3/3
49	GDP	BN	501	-	-	3/16/32/32	0/3/3/3
49	GDP	RH	501	-	-	0/16/32/32	0/3/3/3
47	GTP	LG	501	48	-	5/22/38/38	0/3/3/3
49	GDP	UD	501	-	-	1/16/32/32	0/3/3/3
47	GTP	VA	501	48	-	7/22/38/38	0/3/3/3
49	GDP	OJ	501	-	-	0/16/32/32	0/3/3/3
47	GTP	JG	501	48	-	8/22/38/38	0/3/3/3
47	GTP	FC	501	48	-	8/22/38/38	0/3/3/3
47	GTP	UK	501	48	-	7/22/38/38	0/3/3/3
49	GDP	MJ	501	-	-	1/16/32/32	0/3/3/3
49	GDP	IH	501	-	-	0/16/32/32	0/3/3/3
49	GDP	HJ	501	-	-	1/16/32/32	0/3/3/3
49	GDP	VH	501	-	-	1/16/32/32	0/3/3/3
49	GDP	RJ	501	-	-	3/16/32/32	0/3/3/3
49	GDP	TD	501	-	-	3/16/32/32	0/3/3/3
49	GDP	BJ	501	-	-	0/16/32/32	0/3/3/3
47	GTP	GC	501	48	-	8/22/38/38	0/3/3/3
47	GTP	GM	501	48	-	9/22/38/38	0/3/3/3
47	GTP	AK	501	48	-	7/22/38/38	0/3/3/3
47	GTP	LE	501	48	-	8/22/38/38	0/3/3/3
47	GTP	RK	501	48	-	8/22/38/38	0/3/3/3
49	GDP	DN	501	-	-	0/16/32/32	0/3/3/3
47	GTP	PG	501	48	-	8/22/38/38	0/3/3/3
47	GTP	OF	501	48	-	6/22/38/38	0/3/3/3
47	GTP	OC	501	48	-	7/22/38/38	0/3/3/3
49	GDP	ML	501	-	-	1/16/32/32	0/3/3/3
47	GTP	WG	501	48	-	8/22/38/38	0/3/3/3
47	GTP	GK	501	48	-	8/22/38/38	0/3/3/3
47	GTP	HE	501	48	-	8/22/38/38	0/3/3/3
49	GDP	FB	501	-	-	0/16/32/32	0/3/3/3
49	GDP	KD	501	-	-	0/16/32/32	0/3/3/3
47	GTP	GG	501	48	-	8/22/38/38	0/3/3/3
49	GDP	HF	501	-	-	1/16/32/32	0/3/3/3
47	GTP	DM	501	48	-	7/22/38/38	0/3/3/3
47	GTP	BG	501	48	-	9/22/38/38	0/3/3/3
47	GTP	UE	501	48	-	8/22/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
49	GDP	JF	501	-	-	1/16/32/32	0/3/3/3
47	GTP	PD	501	48	-	9/22/38/38	0/3/3/3
49	GDP	JD	501	-	-	2/16/32/32	0/3/3/3
49	GDP	PF	501	-	-	0/16/32/32	0/3/3/3
47	GTP	BK	501	48	-	9/22/38/38	0/3/3/3
47	GTP	JI	501	48	-	7/22/38/38	0/3/3/3
47	GTP	OA	501	48	-	5/22/38/38	0/3/3/3
49	GDP	TL	501	-	-	3/16/32/32	0/3/3/3
49	GDP	WN	501	-	-	1/16/32/32	0/3/3/3
49	GDP	EN	501	-	-	1/16/32/32	0/3/3/3
47	GTP	GE	501	48	-	7/22/38/38	0/3/3/3
47	GTP	TG	501	48	-	7/22/38/38	0/3/3/3

All (658) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
49	TN	501	GDP	C5-C4	3.20	1.47	1.38
49	BB	501	GDP	C5-C4	3.19	1.47	1.38
49	PB	501	GDP	C5-C4	3.19	1.47	1.38
49	EB	501	GDP	C5-C4	3.19	1.47	1.38
49	SB	501	GDP	C5-C4	3.19	1.47	1.38
49	HB	501	GDP	C5-C4	3.18	1.47	1.38
49	GB	502	GDP	C5-C4	3.18	1.47	1.38
49	QN	501	GDP	C5-C4	3.18	1.47	1.38
49	UB	501	GDP	C5-C4	3.18	1.47	1.38
49	RN	501	GDP	C5-C4	3.18	1.47	1.38
49	CN	501	GDP	C5-C4	3.17	1.47	1.38
49	DN	501	GDP	C5-C4	3.17	1.47	1.38
49	SN	501	GDP	C5-C4	3.17	1.47	1.38
49	TB	501	GDP	C5-C4	3.17	1.47	1.38
49	DB	501	GDP	C5-C4	3.16	1.47	1.38
49	FB	501	GDP	C5-C4	3.16	1.47	1.38
49	VB	501	GDP	C5-C4	3.15	1.47	1.38
49	NB	501	GDP	C5-C4	3.14	1.47	1.38
49	IB	501	GDP	C5-C4	3.13	1.47	1.38
49	OB	501	GDP	C5-C4	3.13	1.47	1.38
49	FN	501	GDP	C5-C4	3.13	1.47	1.38
49	QL	501	GDP	C5-C4	3.13	1.47	1.38
49	EL	501	GDP	C5-C4	3.12	1.47	1.38
49	WN	501	GDP	C5-C4	3.12	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
49	AB	501	GDP	C5-C4	3.12	1.47	1.38
49	QB	501	GDP	C5-C4	3.12	1.47	1.38
49	PF	501	GDP	C5-C4	3.11	1.47	1.38
49	MB	501	GDP	C5-C4	3.11	1.47	1.38
49	UN	501	GDP	C5-C4	3.11	1.47	1.38
49	WB	501	GDP	C5-C4	3.11	1.47	1.38
49	PL	501	GDP	C5-C4	3.11	1.47	1.38
49	OH	501	GDP	C5-C4	3.11	1.47	1.38
49	DJ	501	GDP	C5-C4	3.10	1.47	1.38
49	EH	501	GDP	C5-C4	3.10	1.47	1.38
49	PD	502	GDP	C5-C4	3.10	1.47	1.38
49	EN	501	GDP	C5-C4	3.10	1.47	1.38
49	JB	501	GDP	C5-C4	3.10	1.47	1.38
49	DD	501	GDP	C5-C4	3.10	1.47	1.38
49	PH	501	GDP	C5-C4	3.10	1.47	1.38
49	SD	501	GDP	C5-C4	3.10	1.47	1.38
49	UD	501	GDP	C5-C4	3.10	1.47	1.38
49	DL	501	GDP	C5-C4	3.10	1.47	1.38
49	TH	501	GDP	C5-C4	3.09	1.47	1.38
49	UH	501	GDP	C5-C4	3.09	1.47	1.38
49	WJ	501	GDP	C5-C4	3.09	1.47	1.38
49	JL	501	GDP	C5-C4	3.09	1.47	1.38
49	KB	501	GDP	C5-C4	3.09	1.47	1.38
49	VF	501	GDP	C5-C4	3.09	1.47	1.38
49	TD	501	GDP	C5-C4	3.09	1.47	1.38
49	GN	502	GDP	C5-C4	3.09	1.47	1.38
49	RD	501	GDP	C5-C4	3.08	1.47	1.38
49	VN	501	GDP	C5-C4	3.08	1.47	1.38
49	FD	501	GDP	C5-C4	3.08	1.47	1.38
49	PN	502	GDP	C5-C4	3.08	1.47	1.38
49	TL	501	GDP	C5-C4	3.08	1.47	1.38
49	UJ	501	GDP	C5-C4	3.08	1.47	1.38
49	OJ	501	GDP	C5-C4	3.08	1.47	1.38
49	NL	501	GDP	C5-C4	3.08	1.47	1.38
49	CJ	501	GDP	C5-C4	3.08	1.47	1.38
49	SL	501	GDP	C5-C4	3.08	1.47	1.38
49	UF	501	GDP	C5-C4	3.08	1.47	1.38
49	HD	501	GDP	C5-C4	3.07	1.47	1.38
49	DF	501	GDP	C5-C4	3.07	1.47	1.38
49	CH	501	GDP	C5-C4	3.07	1.47	1.38
49	ID	501	GDP	C5-C4	3.07	1.47	1.38
49	LB	501	GDP	C5-C4	3.07	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
49	JN	501	GDP	C5-C4	3.07	1.47	1.38
49	IN	501	GDP	C5-C4	3.07	1.47	1.38
49	OL	501	GDP	C5-C4	3.07	1.47	1.38
49	BN	501	GDP	C5-C4	3.07	1.47	1.38
49	RL	501	GDP	C5-C4	3.07	1.47	1.38
49	BH	501	GDP	C5-C4	3.07	1.47	1.38
49	ND	502	GDP	C5-C4	3.06	1.47	1.38
49	CB	501	GDP	C5-C4	3.06	1.47	1.38
49	SH	501	GDP	C5-C4	3.06	1.47	1.38
49	DH	501	GDP	C5-C4	3.06	1.47	1.38
49	VL	501	GDP	C5-C4	3.06	1.47	1.38
49	CF	501	GDP	C5-C4	3.06	1.47	1.38
49	OF	502	GDP	C5-C4	3.06	1.47	1.38
49	TF	501	GDP	C5-C4	3.06	1.47	1.38
49	CL	501	GDP	C5-C4	3.06	1.47	1.38
49	BL	501	GDP	C5-C4	3.06	1.47	1.38
49	OD	501	GDP	C5-C4	3.06	1.47	1.38
49	TJ	501	GDP	C5-C4	3.06	1.47	1.38
49	GD	501	GDP	C5-C4	3.05	1.47	1.38
49	QD	501	GDP	C5-C4	3.05	1.47	1.38
49	HJ	501	GDP	C5-C4	3.05	1.47	1.38
49	BD	501	GDP	C5-C4	3.05	1.47	1.38
49	NH	501	GDP	C5-C4	3.05	1.47	1.38
49	UL	501	GDP	C5-C4	3.05	1.47	1.38
49	ON	501	GDP	C5-C4	3.05	1.47	1.38
49	QH	501	GDP	C5-C4	3.05	1.47	1.38
49	NN	501	GDP	C5-C4	3.05	1.47	1.38
49	VH	501	GDP	C5-C4	3.05	1.47	1.38
49	HN	501	GDP	C5-C4	3.05	1.47	1.38
49	BF	501	GDP	C5-C4	3.05	1.47	1.38
49	VJ	501	GDP	C5-C4	3.05	1.47	1.38
49	WD	501	GDP	C5-C4	3.04	1.47	1.38
49	WL	501	GDP	C5-C4	3.04	1.47	1.38
49	AN	501	GDP	C5-C4	3.04	1.47	1.38
49	ED	501	GDP	C5-C4	3.04	1.47	1.38
49	FL	502	GDP	C5-C4	3.04	1.47	1.38
49	PJ	501	GDP	C5-C4	3.03	1.47	1.38
49	RF	501	GDP	C5-C4	3.03	1.47	1.38
49	WH	501	GDP	C5-C4	3.03	1.47	1.38
49	EJ	501	GDP	C5-C4	3.03	1.47	1.38
49	JD	501	GDP	C5-C4	3.03	1.47	1.38
49	CD	501	GDP	C5-C4	3.03	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
49	MF	501	GDP	C5-C4	3.03	1.47	1.38
49	GL	502	GDP	C5-C4	3.03	1.47	1.38
49	NF	501	GDP	C5-C4	3.03	1.47	1.38
49	EF	501	GDP	C5-C4	3.03	1.47	1.38
49	BJ	501	GDP	C5-C4	3.03	1.47	1.38
49	SF	501	GDP	C5-C4	3.03	1.47	1.38
49	QJ	501	GDP	C5-C4	3.03	1.47	1.38
49	KD	501	GDP	C5-C4	3.02	1.47	1.38
49	WF	501	GDP	C5-C4	3.02	1.47	1.38
49	IF	501	GDP	C5-C4	3.02	1.47	1.38
49	LD	501	GDP	C5-C4	3.02	1.47	1.38
49	HF	501	GDP	C5-C4	3.02	1.47	1.38
49	JF	501	GDP	C5-C4	3.02	1.47	1.38
49	LJ	501	GDP	C5-C4	3.02	1.47	1.38
49	MD	501	GDP	C5-C4	3.01	1.47	1.38
49	NJ	501	GDP	C5-C4	3.01	1.47	1.38
49	KL	501	GDP	C5-C4	3.01	1.47	1.38
49	JJ	501	GDP	C5-C4	3.01	1.47	1.38
49	AD	501	GDP	C5-C4	3.01	1.47	1.38
49	QF	501	GDP	C5-C4	3.01	1.47	1.38
49	VD	501	GDP	C5-C4	3.00	1.47	1.38
49	IJ	501	GDP	C5-C4	3.00	1.47	1.38
49	FF	501	GDP	C5-C4	3.00	1.47	1.38
49	AF	501	GDP	C5-C4	3.00	1.47	1.38
49	MJ	501	GDP	C5-C4	3.00	1.47	1.38
49	RB	501	GDP	C5-C4	3.00	1.47	1.38
49	LF	501	GDP	C5-C4	3.00	1.47	1.38
49	RH	501	GDP	C5-C4	3.00	1.47	1.38
49	LL	501	GDP	C5-C4	3.00	1.47	1.38
49	AL	501	GDP	C5-C4	3.00	1.47	1.38
49	GF	501	GDP	C5-C4	3.00	1.47	1.38
49	ML	501	GDP	C5-C4	3.00	1.47	1.38
49	MN	501	GDP	C5-C4	2.99	1.47	1.38
49	IH	501	GDP	C5-C4	2.99	1.46	1.38
49	JH	501	GDP	C5-C4	2.99	1.46	1.38
49	AH	501	GDP	C5-C4	2.99	1.46	1.38
49	KF	501	GDP	C5-C4	2.99	1.46	1.38
49	KN	501	GDP	C5-C4	2.98	1.46	1.38
49	HH	501	GDP	C5-C4	2.98	1.46	1.38
49	HL	501	GDP	C5-C4	2.98	1.46	1.38
49	MH	501	GDP	C5-C4	2.97	1.46	1.38
49	LH	501	GDP	C5-C4	2.97	1.46	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
49	IL	501	GDP	C5-C4	2.97	1.46	1.38
49	FH	501	GDP	C5-C4	2.97	1.46	1.38
49	RJ	501	GDP	C5-C4	2.97	1.46	1.38
49	SJ	501	GDP	C5-C4	2.96	1.46	1.38
49	FJ	501	GDP	C5-C4	2.96	1.46	1.38
49	LN	501	GDP	C5-C4	2.96	1.46	1.38
49	GJ	501	GDP	C5-C4	2.96	1.46	1.38
49	KJ	501	GDP	C5-C4	2.96	1.46	1.38
49	GH	501	GDP	C5-C4	2.94	1.46	1.38
49	AJ	501	GDP	C5-C4	2.94	1.46	1.38
49	KH	501	GDP	C5-C4	2.93	1.46	1.38
49	RB	501	GDP	C6-N1	-2.74	1.33	1.38
49	RJ	501	GDP	C6-N1	-2.72	1.33	1.38
49	KH	501	GDP	C6-N1	-2.71	1.33	1.38
49	GH	501	GDP	C6-N1	-2.68	1.33	1.38
49	VF	501	GDP	C6-N1	-2.63	1.33	1.38
49	GL	502	GDP	C6-N1	-2.63	1.33	1.38
49	LF	501	GDP	C6-N1	-2.63	1.33	1.38
49	UJ	501	GDP	C6-N1	-2.61	1.34	1.38
49	HJ	501	GDP	C6-N1	-2.61	1.34	1.38
49	FJ	501	GDP	C6-N1	-2.61	1.34	1.38
49	IL	501	GDP	C6-N1	-2.61	1.34	1.38
49	AN	501	GDP	C6-N1	-2.60	1.34	1.38
49	LD	501	GDP	C6-N1	-2.60	1.34	1.38
49	AJ	501	GDP	C6-N1	-2.60	1.34	1.38
49	GF	501	GDP	C6-N1	-2.60	1.34	1.38
49	DJ	501	GDP	C6-N1	-2.59	1.34	1.38
49	SD	501	GDP	C6-N1	-2.59	1.34	1.38
49	MD	501	GDP	C6-N1	-2.59	1.34	1.38
49	BL	501	GDP	C6-N1	-2.58	1.34	1.38
49	BD	501	GDP	C6-N1	-2.58	1.34	1.38
49	QF	501	GDP	C6-N1	-2.58	1.34	1.38
49	QD	501	GDP	C6-N1	-2.58	1.34	1.38
49	IF	501	GDP	C6-N1	-2.58	1.34	1.38
49	FH	501	GDP	C6-N1	-2.58	1.34	1.38
49	GD	501	GDP	C6-N1	-2.57	1.34	1.38
49	LH	501	GDP	C6-N1	-2.57	1.34	1.38
49	ML	501	GDP	C6-N1	-2.57	1.34	1.38
49	CD	501	GDP	C6-N1	-2.57	1.34	1.38
49	VL	501	GDP	C6-N1	-2.57	1.34	1.38
49	HN	501	GDP	C6-N1	-2.57	1.34	1.38
49	HL	501	GDP	C6-N1	-2.57	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
49	AL	501	GDP	C6-N1	-2.57	1.34	1.38
49	DD	501	GDP	C6-N1	-2.57	1.34	1.38
49	EF	501	GDP	C6-N1	-2.57	1.34	1.38
49	QJ	501	GDP	C6-N1	-2.56	1.34	1.38
49	AF	501	GDP	C6-N1	-2.56	1.34	1.38
49	GJ	501	GDP	C6-N1	-2.56	1.34	1.38
49	JJ	501	GDP	C6-N1	-2.56	1.34	1.38
49	RH	501	GDP	C6-N1	-2.56	1.34	1.38
49	UH	501	GDP	C6-N1	-2.56	1.34	1.38
49	NJ	501	GDP	C6-N1	-2.56	1.34	1.38
49	ID	501	GDP	C6-N1	-2.56	1.34	1.38
49	ND	502	GDP	C6-N1	-2.56	1.34	1.38
49	WH	501	GDP	C6-N1	-2.56	1.34	1.38
49	IH	501	GDP	C6-N1	-2.56	1.34	1.38
49	WF	501	GDP	C6-N1	-2.56	1.34	1.38
49	HH	501	GDP	C6-N1	-2.56	1.34	1.38
49	MH	501	GDP	C6-N1	-2.55	1.34	1.38
49	LJ	501	GDP	C6-N1	-2.55	1.34	1.38
49	RF	501	GDP	C6-N1	-2.55	1.34	1.38
49	LL	501	GDP	C6-N1	-2.55	1.34	1.38
49	JF	501	GDP	C6-N1	-2.55	1.34	1.38
49	VD	501	GDP	C6-N1	-2.55	1.34	1.38
49	MJ	501	GDP	C6-N1	-2.55	1.34	1.38
49	AH	501	GDP	C6-N1	-2.55	1.34	1.38
49	OF	502	GDP	C6-N1	-2.55	1.34	1.38
49	BH	501	GDP	C6-N1	-2.55	1.34	1.38
49	HF	501	GDP	C6-N1	-2.54	1.34	1.38
49	IJ	501	GDP	C6-N1	-2.54	1.34	1.38
49	CF	501	GDP	C6-N1	-2.54	1.34	1.38
49	KJ	501	GDP	C6-N1	-2.54	1.34	1.38
49	AD	501	GDP	C6-N1	-2.54	1.34	1.38
49	VH	501	GDP	C6-N1	-2.54	1.34	1.38
49	UF	501	GDP	C6-N1	-2.54	1.34	1.38
49	JL	501	GDP	C6-N1	-2.54	1.34	1.38
49	SF	501	GDP	C6-N1	-2.54	1.34	1.38
49	FD	501	GDP	C6-N1	-2.54	1.34	1.38
49	ON	501	GDP	C6-N1	-2.54	1.34	1.38
49	JB	501	GDP	C6-N1	-2.54	1.34	1.38
49	NL	501	GDP	C6-N1	-2.54	1.34	1.38
49	OJ	501	GDP	C6-N1	-2.53	1.34	1.38
49	BF	501	GDP	C6-N1	-2.53	1.34	1.38
49	HD	501	GDP	C6-N1	-2.53	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
49	LN	501	GDP	C6-N1	-2.53	1.34	1.38
49	RD	501	GDP	C6-N1	-2.53	1.34	1.38
49	CH	501	GDP	C6-N1	-2.53	1.34	1.38
49	BJ	501	GDP	C6-N1	-2.53	1.34	1.38
49	VN	501	GDP	C6-N1	-2.53	1.34	1.38
49	NF	501	GDP	C6-N1	-2.53	1.34	1.38
49	SJ	501	GDP	C6-N1	-2.52	1.34	1.38
49	WN	501	GDP	C6-N1	-2.52	1.34	1.38
49	PH	501	GDP	C6-N1	-2.52	1.34	1.38
49	NH	501	GDP	C6-N1	-2.52	1.34	1.38
49	UL	501	GDP	C6-N1	-2.52	1.34	1.38
49	ED	501	GDP	C6-N1	-2.52	1.34	1.38
49	MF	501	GDP	C6-N1	-2.51	1.34	1.38
49	QH	501	GDP	C6-N1	-2.51	1.34	1.38
49	GN	502	GDP	C6-N1	-2.51	1.34	1.38
49	KB	501	GDP	C6-N1	-2.51	1.34	1.38
49	CJ	501	GDP	C6-N1	-2.51	1.34	1.38
49	TH	501	GDP	C6-N1	-2.51	1.34	1.38
49	TL	501	GDP	C6-N1	-2.51	1.34	1.38
49	FL	502	GDP	C6-N1	-2.50	1.34	1.38
49	WL	501	GDP	C6-N1	-2.50	1.34	1.38
49	KD	501	GDP	C6-N1	-2.50	1.34	1.38
49	RL	501	GDP	C6-N1	-2.50	1.34	1.38
49	EJ	501	GDP	C6-N1	-2.50	1.34	1.38
49	DH	501	GDP	C6-N1	-2.50	1.34	1.38
49	FN	501	GDP	C6-N1	-2.50	1.34	1.38
49	BN	501	GDP	C6-N1	-2.50	1.34	1.38
49	IN	501	GDP	C6-N1	-2.50	1.34	1.38
49	JD	501	GDP	C6-N1	-2.50	1.34	1.38
49	NB	501	GDP	C6-N1	-2.50	1.34	1.38
49	MN	501	GDP	C6-N1	-2.49	1.34	1.38
49	FF	501	GDP	C6-N1	-2.49	1.34	1.38
49	JH	501	GDP	C6-N1	-2.49	1.34	1.38
49	KL	501	GDP	C6-N1	-2.49	1.34	1.38
49	TF	501	GDP	C6-N1	-2.49	1.34	1.38
49	PN	502	GDP	C6-N1	-2.49	1.34	1.38
49	OD	501	GDP	C6-N1	-2.49	1.34	1.38
49	UD	501	GDP	C6-N1	-2.49	1.34	1.38
49	EN	501	GDP	C6-N1	-2.49	1.34	1.38
49	WD	501	GDP	C6-N1	-2.48	1.34	1.38
49	OL	501	GDP	C6-N1	-2.48	1.34	1.38
49	WB	501	GDP	C6-N1	-2.48	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
49	QL	501	GDP	C6-N1	-2.48	1.34	1.38
49	CL	501	GDP	C6-N1	-2.48	1.34	1.38
49	VJ	501	GDP	C6-N1	-2.48	1.34	1.38
49	SH	501	GDP	C6-N1	-2.47	1.34	1.38
49	WJ	501	GDP	C6-N1	-2.47	1.34	1.38
49	LB	501	GDP	C6-N1	-2.47	1.34	1.38
49	NN	501	GDP	C6-N1	-2.47	1.34	1.38
49	OH	501	GDP	C6-N1	-2.47	1.34	1.38
49	EH	501	GDP	C6-N1	-2.47	1.34	1.38
49	KF	501	GDP	C6-N1	-2.47	1.34	1.38
49	DF	501	GDP	C6-N1	-2.46	1.34	1.38
49	SL	501	GDP	C6-N1	-2.46	1.34	1.38
49	UN	501	GDP	C6-N1	-2.46	1.34	1.38
49	TJ	501	GDP	C6-N1	-2.46	1.34	1.38
49	PL	501	GDP	C6-N1	-2.46	1.34	1.38
49	QB	501	GDP	C6-N1	-2.46	1.34	1.38
49	RN	501	GDP	C6-N1	-2.46	1.34	1.38
49	CB	501	GDP	C6-N1	-2.46	1.34	1.38
49	VB	501	GDP	C6-N1	-2.46	1.34	1.38
49	JN	501	GDP	C6-N1	-2.45	1.34	1.38
49	EB	501	GDP	C6-N1	-2.45	1.34	1.38
49	PB	501	GDP	C6-N1	-2.44	1.34	1.38
49	OB	501	GDP	C6-N1	-2.44	1.34	1.38
49	PJ	501	GDP	C6-N1	-2.44	1.34	1.38
49	KN	501	GDP	C6-N1	-2.43	1.34	1.38
49	PF	501	GDP	C6-N1	-2.43	1.34	1.38
49	GB	502	GDP	C6-N1	-2.43	1.34	1.38
49	TD	501	GDP	C6-N1	-2.43	1.34	1.38
49	MB	501	GDP	C6-N1	-2.42	1.34	1.38
49	DL	501	GDP	C6-N1	-2.42	1.34	1.38
49	CN	501	GDP	C6-N1	-2.42	1.34	1.38
49	PD	502	GDP	C6-N1	-2.41	1.34	1.38
49	EL	501	GDP	C6-N1	-2.40	1.34	1.38
49	UB	501	GDP	C6-N1	-2.40	1.34	1.38
49	FB	501	GDP	C6-N1	-2.40	1.34	1.38
49	TN	501	GDP	C6-N1	-2.40	1.34	1.38
49	DB	501	GDP	C6-N1	-2.40	1.34	1.38
49	HB	501	GDP	C6-N1	-2.40	1.34	1.38
49	SN	501	GDP	C6-N1	-2.39	1.34	1.38
49	BB	501	GDP	C6-N1	-2.39	1.34	1.38
49	AB	501	GDP	C6-N1	-2.39	1.34	1.38
49	DN	501	GDP	C6-N1	-2.39	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
49	QN	501	GDP	C6-N1	-2.38	1.34	1.38
49	IB	501	GDP	C6-N1	-2.37	1.34	1.38
49	TB	501	GDP	C6-N1	-2.37	1.34	1.38
47	EM	501	GTP	C2-N3	2.34	1.38	1.33
49	SB	501	GDP	C6-N1	-2.33	1.34	1.38
47	UA	501	GTP	C2-N3	2.28	1.38	1.33
47	SM	501	GTP	C2-N3	2.27	1.38	1.33
47	BG	501	GTP	C2-N3	2.27	1.38	1.33
47	HM	501	GTP	C2-N3	2.26	1.38	1.33
47	FM	501	GTP	C2-N3	2.26	1.38	1.33
47	VM	501	GTP	C2-N3	2.25	1.38	1.33
49	GF	501	GDP	C5-N7	-2.25	1.34	1.39
47	RA	501	GTP	C2-N3	2.25	1.38	1.33
47	EA	501	GTP	C2-N3	2.24	1.38	1.33
47	HA	501	GTP	C2-N3	2.24	1.38	1.33
47	QA	501	GTP	C2-N3	2.24	1.38	1.33
47	DA	501	GTP	C2-N3	2.24	1.38	1.33
47	JM	501	GTP	C2-N3	2.24	1.38	1.33
47	GM	501	GTP	C2-N3	2.23	1.38	1.33
49	VD	501	GDP	C5-N7	-2.23	1.34	1.39
49	AJ	501	GDP	C5-N7	-2.23	1.34	1.39
47	NA	501	GTP	C2-N3	2.23	1.38	1.33
47	QC	501	GTP	C2-N3	2.23	1.38	1.33
47	WM	501	GTP	C2-N3	2.23	1.38	1.33
47	TA	501	GTP	C2-N3	2.23	1.38	1.33
47	SA	501	GTP	C2-N3	2.23	1.38	1.33
47	PA	501	GTP	C2-N3	2.23	1.38	1.33
47	BI	501	GTP	C2-N3	2.23	1.38	1.33
47	CA	501	GTP	C2-N3	2.22	1.38	1.33
47	DK	501	GTP	C2-N3	2.22	1.38	1.33
49	AF	501	GDP	C5-N7	-2.22	1.34	1.39
49	AH	501	GDP	C5-N7	-2.22	1.34	1.39
49	MF	501	GDP	C5-N7	-2.22	1.34	1.39
47	RC	501	GTP	C2-N3	2.22	1.38	1.33
49	KL	501	GDP	C5-N7	-2.21	1.34	1.39
47	PG	501	GTP	C2-N3	2.21	1.38	1.33
47	VE	501	GTP	C2-N3	2.21	1.38	1.33
47	OA	501	GTP	C2-N3	2.21	1.38	1.33
47	CM	501	GTP	C2-N3	2.21	1.38	1.33
47	OC	501	GTP	C2-N3	2.21	1.38	1.33
47	ME	501	GTP	C2-N3	2.21	1.38	1.33
47	DC	501	GTP	C2-N3	2.21	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
47	WG	501	GTP	C2-N3	2.21	1.38	1.33
47	PK	501	GTP	C2-N3	2.21	1.38	1.33
47	UM	501	GTP	C2-N3	2.20	1.38	1.33
47	QE	501	GTP	C2-N3	2.20	1.38	1.33
47	OM	501	GTP	C2-N3	2.20	1.38	1.33
49	LH	501	GDP	C5-N7	-2.20	1.34	1.39
47	UI	501	GTP	C2-N3	2.20	1.38	1.33
47	DI	501	GTP	C2-N3	2.20	1.38	1.33
47	QI	501	GTP	C2-N3	2.20	1.38	1.33
47	IC	501	GTP	C2-N3	2.20	1.38	1.33
47	RI	501	GTP	C2-N3	2.20	1.38	1.33
47	AC	501	GTP	C2-N3	2.20	1.38	1.33
47	CG	501	GTP	C2-N3	2.19	1.38	1.33
47	DG	501	GTP	C2-N3	2.19	1.38	1.33
47	BK	501	GTP	C2-N3	2.19	1.38	1.33
47	UE	501	GTP	C2-N3	2.19	1.38	1.33
47	QG	501	GTP	C2-N3	2.19	1.38	1.33
47	HI	501	GTP	C2-N3	2.19	1.38	1.33
47	TM	501	GTP	C2-N3	2.19	1.38	1.33
47	UG	501	GTP	C2-N3	2.19	1.38	1.33
47	RG	501	GTP	C2-N3	2.19	1.38	1.33
49	LJ	501	GDP	C5-N7	-2.18	1.34	1.39
47	PD	501	GTP	C2-N3	2.18	1.38	1.33
47	TC	501	GTP	C2-N3	2.18	1.38	1.33
47	GC	501	GTP	C2-N3	2.18	1.38	1.33
47	IE	501	GTP	C2-N3	2.18	1.38	1.33
49	VN	501	GDP	C5-N7	-2.18	1.34	1.39
47	CK	501	GTP	C2-N3	2.18	1.38	1.33
47	GE	501	GTP	C2-N3	2.18	1.38	1.33
47	IA	501	GTP	C2-N3	2.18	1.38	1.33
47	NM	501	GTP	C2-N3	2.18	1.38	1.33
47	WC	501	GTP	C2-N3	2.18	1.38	1.33
47	EC	501	GTP	C2-N3	2.18	1.38	1.33
49	GL	502	GDP	C5-N7	-2.18	1.34	1.39
47	KA	501	GTP	C2-N3	2.18	1.38	1.33
49	MN	501	GDP	C5-N7	-2.18	1.34	1.39
49	SJ	501	GDP	C5-N7	-2.18	1.34	1.39
47	JG	501	GTP	C2-N3	2.17	1.38	1.33
47	LK	501	GTP	C2-N3	2.17	1.38	1.33
47	UK	501	GTP	C2-N3	2.17	1.38	1.33
49	LF	501	GDP	C5-N7	-2.17	1.34	1.39
47	BC	502	GTP	C2-N3	2.17	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
47	DM	501	GTP	C2-N3	2.17	1.38	1.33
47	PE	501	GTP	C2-N3	2.17	1.38	1.33
47	AK	501	GTP	C2-N3	2.17	1.38	1.33
49	TF	501	GDP	C5-N7	-2.17	1.34	1.39
49	SB	501	GDP	C5-N7	-2.17	1.34	1.39
47	BE	501	GTP	C2-N3	2.17	1.38	1.33
47	NG	501	GTP	C2-N3	2.17	1.38	1.33
47	MA	501	GTP	C2-N3	2.17	1.38	1.33
47	HK	501	GTP	C2-N3	2.17	1.38	1.33
47	AI	501	GTP	C2-N3	2.17	1.38	1.33
47	QM	501	GTP	C2-N3	2.17	1.38	1.33
47	DE	501	GTP	C2-N3	2.17	1.38	1.33
47	BM	501	GTP	C2-N3	2.17	1.38	1.33
47	HC	501	GTP	C2-N3	2.17	1.38	1.33
49	IL	501	GDP	C5-N7	-2.17	1.34	1.39
49	MJ	501	GDP	C5-N7	-2.17	1.34	1.39
49	GH	501	GDP	C5-N7	-2.17	1.34	1.39
47	OI	501	GTP	C2-N3	2.17	1.38	1.33
49	AD	501	GDP	C5-N7	-2.16	1.34	1.39
47	AM	501	GTP	C2-N3	2.16	1.38	1.33
49	SD	501	GDP	C5-N7	-2.16	1.34	1.39
47	BA	501	GTP	C2-N3	2.16	1.38	1.33
49	JJ	501	GDP	C5-N7	-2.16	1.34	1.39
49	BD	501	GDP	C5-N7	-2.16	1.34	1.39
49	BH	501	GDP	C5-N7	-2.16	1.34	1.39
49	FJ	501	GDP	C5-N7	-2.16	1.34	1.39
47	AG	501	GTP	C2-N3	2.16	1.38	1.33
49	LL	501	GDP	C5-N7	-2.16	1.34	1.39
49	QJ	501	GDP	C5-N7	-2.16	1.34	1.39
49	VH	501	GDP	C5-N7	-2.16	1.34	1.39
47	LA	501	GTP	C2-N3	2.16	1.38	1.33
47	II	501	GTP	C2-N3	2.16	1.38	1.33
49	IH	501	GDP	C5-N7	-2.16	1.34	1.39
47	VK	501	GTP	C2-N3	2.16	1.38	1.33
47	FC	501	GTP	C2-N3	2.16	1.38	1.33
47	EI	501	GTP	C2-N3	2.16	1.38	1.33
49	GJ	501	GDP	C5-N7	-2.16	1.34	1.39
49	IJ	501	GDP	C5-N7	-2.16	1.34	1.39
47	FK	501	GTP	C2-N3	2.15	1.38	1.33
47	OG	501	GTP	C2-N3	2.15	1.38	1.33
47	HG	501	GTP	C2-N3	2.15	1.38	1.33
49	HF	501	GDP	C5-N7	-2.15	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
47	RE	501	GTP	C2-N3	2.15	1.38	1.33
49	WN	501	GDP	C5-N7	-2.15	1.34	1.39
49	UF	501	GDP	C5-N7	-2.15	1.34	1.39
47	PM	501	GTP	C2-N3	2.15	1.38	1.33
47	AE	501	GTP	C2-N3	2.15	1.38	1.33
47	JK	501	GTP	C2-N3	2.15	1.38	1.33
49	SF	501	GDP	C5-N7	-2.15	1.34	1.39
47	GI	501	GTP	C2-N3	2.15	1.38	1.33
47	VC	501	GTP	C2-N3	2.15	1.38	1.33
49	GN	502	GDP	C5-N7	-2.15	1.34	1.39
49	VJ	501	GDP	C5-N7	-2.15	1.34	1.39
49	BL	501	GDP	C5-N7	-2.15	1.34	1.39
49	RJ	501	GDP	C5-N7	-2.15	1.34	1.39
47	LG	501	GTP	C2-N3	2.15	1.38	1.33
47	MC	501	GTP	C2-N3	2.15	1.38	1.33
47	FA	501	GTP	C2-N3	2.15	1.38	1.33
47	EG	501	GTP	C2-N3	2.15	1.38	1.33
47	GG	501	GTP	C2-N3	2.14	1.38	1.33
47	UC	501	GTP	C2-N3	2.14	1.38	1.33
47	IM	501	GTP	C2-N3	2.14	1.38	1.33
47	VA	501	GTP	C2-N3	2.14	1.38	1.33
47	CE	501	GTP	C2-N3	2.14	1.38	1.33
49	AB	501	GDP	C5-N7	-2.14	1.34	1.39
49	IF	501	GDP	C5-N7	-2.14	1.34	1.39
47	WA	501	GTP	C2-N3	2.14	1.38	1.33
47	WI	501	GTP	C2-N3	2.14	1.38	1.33
49	WD	501	GDP	C5-N7	-2.14	1.34	1.39
47	EK	501	GTP	C2-N3	2.14	1.38	1.33
47	GK	501	GTP	C2-N3	2.14	1.38	1.33
47	IK	501	GTP	C2-N3	2.14	1.38	1.33
47	NK	501	GTP	C2-N3	2.14	1.38	1.33
49	RD	501	GDP	C5-N7	-2.14	1.34	1.39
49	UJ	501	GDP	C5-N7	-2.14	1.34	1.39
47	CI	501	GTP	C2-N3	2.14	1.38	1.33
49	KH	501	GDP	C5-N7	-2.14	1.34	1.39
49	BJ	501	GDP	C5-N7	-2.14	1.34	1.39
49	AL	501	GDP	C5-N7	-2.14	1.34	1.39
49	FF	501	GDP	C5-N7	-2.14	1.34	1.39
49	OJ	501	GDP	C5-N7	-2.14	1.34	1.39
49	HL	501	GDP	C5-N7	-2.14	1.34	1.39
47	PI	501	GTP	C2-N3	2.14	1.38	1.33
49	WJ	501	GDP	C5-N7	-2.14	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
47	OF	501	GTP	C2-N3	2.14	1.38	1.33
47	NI	501	GTP	C2-N3	2.13	1.38	1.33
49	TD	501	GDP	C5-N7	-2.13	1.34	1.39
49	CD	501	GDP	C5-N7	-2.13	1.34	1.39
49	NL	501	GDP	C5-N7	-2.13	1.34	1.39
47	LI	501	GTP	C2-N3	2.13	1.38	1.33
47	QK	501	GTP	C2-N3	2.13	1.38	1.33
49	ML	501	GDP	C5-N7	-2.13	1.34	1.39
49	SL	501	GDP	C5-N7	-2.13	1.34	1.39
49	UH	501	GDP	C5-N7	-2.13	1.34	1.39
47	SI	501	GTP	C2-N3	2.13	1.38	1.33
49	FH	501	GDP	C5-N7	-2.13	1.34	1.39
49	IN	501	GDP	C5-N7	-2.13	1.34	1.39
49	TJ	501	GDP	C5-N7	-2.13	1.34	1.39
47	RM	501	GTP	C2-N3	2.13	1.38	1.33
49	AN	501	GDP	C5-N7	-2.13	1.34	1.39
47	NE	501	GTP	C2-N3	2.13	1.38	1.33
47	KE	501	GTP	C2-N3	2.13	1.38	1.33
49	NF	501	GDP	C5-N7	-2.13	1.34	1.39
49	HD	501	GDP	C5-N7	-2.13	1.34	1.39
49	OH	501	GDP	C5-N7	-2.13	1.34	1.39
47	KG	501	GTP	C2-N3	2.12	1.38	1.33
47	VG	501	GTP	C2-N3	2.12	1.38	1.33
49	DD	501	GDP	C5-N7	-2.12	1.34	1.39
49	NJ	501	GDP	C5-N7	-2.12	1.34	1.39
49	WF	501	GDP	C5-N7	-2.12	1.34	1.39
47	JA	501	GTP	C2-N3	2.12	1.38	1.33
47	SC	501	GTP	C2-N3	2.12	1.38	1.33
49	LN	501	GDP	C5-N7	-2.12	1.34	1.39
49	MH	501	GDP	C5-N7	-2.12	1.34	1.39
49	JL	501	GDP	C5-N7	-2.12	1.34	1.39
47	GA	501	GTP	C2-N3	2.12	1.38	1.33
49	HH	501	GDP	C5-N7	-2.12	1.34	1.39
47	JC	501	GTP	C2-N3	2.12	1.38	1.33
47	RK	501	GTP	C2-N3	2.12	1.38	1.33
49	TH	501	GDP	C5-N7	-2.12	1.34	1.39
49	CH	501	GDP	C5-N7	-2.12	1.34	1.39
47	HE	501	GTP	C2-N3	2.12	1.38	1.33
47	JE	501	GTP	C2-N3	2.12	1.38	1.33
47	TG	501	GTP	C2-N3	2.12	1.38	1.33
47	WK	501	GTP	C2-N3	2.12	1.38	1.33
47	KM	501	GTP	C2-N3	2.12	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
47	SE	501	GTP	C2-N3	2.12	1.38	1.33
49	DJ	501	GDP	C5-N7	-2.12	1.34	1.39
49	QF	501	GDP	C5-N7	-2.11	1.34	1.39
49	RL	501	GDP	C5-N7	-2.11	1.34	1.39
49	VL	501	GDP	C5-N7	-2.11	1.34	1.39
47	EE	501	GTP	C2-N3	2.11	1.38	1.33
49	UN	501	GDP	C5-N7	-2.11	1.34	1.39
49	NH	501	GDP	C5-N7	-2.11	1.34	1.39
49	LD	501	GDP	C5-N7	-2.11	1.34	1.39
49	QH	501	GDP	C5-N7	-2.11	1.34	1.39
49	ID	501	GDP	C5-N7	-2.11	1.34	1.39
49	JF	501	GDP	C5-N7	-2.11	1.34	1.39
49	FL	502	GDP	C5-N7	-2.11	1.34	1.39
49	FD	501	GDP	C5-N7	-2.11	1.34	1.39
47	KI	501	GTP	C2-N3	2.11	1.38	1.33
47	NC	501	GTP	C2-N3	2.11	1.38	1.33
47	VI	501	GTP	C2-N3	2.11	1.38	1.33
47	SG	501	GTP	C2-N3	2.11	1.38	1.33
47	MK	501	GTP	C2-N3	2.10	1.38	1.33
49	UL	501	GDP	C5-N7	-2.10	1.34	1.39
47	TI	501	GTP	C2-N3	2.10	1.38	1.33
47	CC	501	GTP	C2-N3	2.10	1.38	1.33
49	CL	501	GDP	C5-N7	-2.10	1.34	1.39
49	KD	501	GDP	C5-N7	-2.10	1.34	1.39
49	OL	501	GDP	C5-N7	-2.10	1.34	1.39
47	LC	501	GTP	C2-N3	2.10	1.38	1.33
47	CC	501	GTP	PA-O3A	2.10	1.61	1.59
47	TE	501	GTP	C2-N3	2.10	1.38	1.33
49	BF	501	GDP	C5-N7	-2.10	1.34	1.39
49	KJ	501	GDP	C5-N7	-2.10	1.34	1.39
49	RF	501	GDP	C5-N7	-2.10	1.34	1.39
47	IG	501	GTP	C2-N3	2.10	1.38	1.33
47	KC	501	GTP	C2-N3	2.10	1.38	1.33
49	CB	501	GDP	C5-N7	-2.09	1.34	1.39
47	LM	501	GTP	C2-N3	2.09	1.38	1.33
47	TK	501	GTP	C2-N3	2.09	1.38	1.33
49	WL	501	GDP	C5-N7	-2.09	1.34	1.39
47	FE	501	GTP	C2-N3	2.09	1.38	1.33
47	OK	501	GTP	C2-N3	2.09	1.38	1.33
49	KF	501	GDP	C5-N7	-2.09	1.34	1.39
49	BN	501	GDP	C5-N7	-2.09	1.34	1.39
47	JI	501	GTP	C2-N3	2.09	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
49	MD	501	GDP	C5-N7	-2.09	1.34	1.39
49	EH	501	GDP	C5-N7	-2.09	1.34	1.39
49	QL	501	GDP	C5-N7	-2.09	1.34	1.39
49	ND	502	GDP	C5-N7	-2.09	1.34	1.39
49	WB	501	GDP	C5-N7	-2.09	1.34	1.39
49	NN	501	GDP	C5-N7	-2.09	1.34	1.39
49	JH	501	GDP	C5-N7	-2.09	1.34	1.39
49	HN	501	GDP	C5-N7	-2.09	1.34	1.39
49	EJ	501	GDP	C5-N7	-2.09	1.34	1.39
47	AA	501	GTP	C2-N3	2.09	1.38	1.33
47	MI	501	GTP	C2-N3	2.08	1.38	1.33
49	JD	501	GDP	C5-N7	-2.08	1.34	1.39
49	TB	501	GDP	C5-N7	-2.08	1.34	1.39
47	MG	501	GTP	C2-N3	2.08	1.38	1.33
49	PL	501	GDP	C5-N7	-2.08	1.34	1.39
49	HJ	501	GDP	C5-N7	-2.08	1.34	1.39
49	VB	501	GDP	C5-N7	-2.08	1.34	1.39
49	OF	502	GDP	C5-N7	-2.08	1.34	1.39
49	SH	501	GDP	C5-N7	-2.08	1.34	1.39
49	QD	501	GDP	C5-N7	-2.08	1.34	1.39
49	PF	501	GDP	C5-N7	-2.08	1.34	1.39
49	RH	501	GDP	C5-N7	-2.08	1.34	1.39
49	VF	501	GDP	C5-N7	-2.08	1.34	1.39
49	WH	501	GDP	C5-N7	-2.08	1.34	1.39
49	EL	501	GDP	C5-N7	-2.08	1.34	1.39
47	MM	501	GTP	C2-N3	2.07	1.38	1.33
49	KN	501	GDP	C5-N7	-2.07	1.34	1.39
49	SN	501	GDP	C5-N7	-2.07	1.34	1.39
49	MB	501	GDP	C5-N7	-2.07	1.34	1.39
47	KK	501	GTP	C2-N3	2.07	1.38	1.33
49	DF	501	GDP	C5-N7	-2.07	1.34	1.39
49	QN	501	GDP	C5-N7	-2.07	1.34	1.39
49	FN	501	GDP	C5-N7	-2.07	1.34	1.39
49	ON	501	GDP	C5-N7	-2.07	1.34	1.39
49	PD	502	GDP	C5-N7	-2.07	1.34	1.39
49	JB	501	GDP	C5-N7	-2.07	1.34	1.39
49	GD	501	GDP	C5-N7	-2.07	1.34	1.39
47	EM	501	GTP	PA-O3A	2.07	1.61	1.59
47	FG	501	GTP	C2-N3	2.07	1.38	1.33
47	IE	501	GTP	C5-N7	-2.07	1.34	1.39
49	CF	501	GDP	C5-N7	-2.06	1.34	1.39
49	JN	501	GDP	C5-N7	-2.06	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
47	LE	501	GTP	C2-N3	2.06	1.38	1.33
49	OD	501	GDP	C5-N7	-2.06	1.34	1.39
49	NB	501	GDP	C5-N7	-2.06	1.34	1.39
49	ED	501	GDP	C5-N7	-2.06	1.35	1.39
49	GB	502	GDP	C5-N7	-2.05	1.35	1.39
47	SK	501	GTP	C2-N3	2.05	1.38	1.33
49	DL	501	GDP	C5-N7	-2.05	1.35	1.39
49	EN	501	GDP	C5-N7	-2.05	1.35	1.39
49	QB	501	GDP	C5-N7	-2.05	1.35	1.39
49	UB	501	GDP	C5-N7	-2.05	1.35	1.39
49	CJ	501	GDP	C5-N7	-2.05	1.35	1.39
49	DH	501	GDP	C5-N7	-2.05	1.35	1.39
49	EF	501	GDP	C5-N7	-2.05	1.35	1.39
49	HB	501	GDP	C5-N7	-2.05	1.35	1.39
49	PH	501	GDP	C5-N7	-2.05	1.35	1.39
49	DB	501	GDP	C5-N7	-2.05	1.35	1.39
49	RN	501	GDP	C5-N7	-2.05	1.35	1.39
49	TL	501	GDP	C5-N7	-2.05	1.35	1.39
47	FI	501	GTP	C2-N3	2.04	1.38	1.33
49	UD	501	GDP	C5-N7	-2.04	1.35	1.39
49	EB	501	GDP	C5-N7	-2.04	1.35	1.39
49	KB	501	GDP	C5-N7	-2.04	1.35	1.39
47	WE	501	GTP	C2-N3	2.04	1.38	1.33
49	PJ	501	GDP	C5-N7	-2.03	1.35	1.39
49	DN	501	GDP	C5-N7	-2.03	1.35	1.39
47	PA	501	GTP	PA-O3A	2.03	1.61	1.59
47	QG	501	GTP	PA-O3A	2.03	1.61	1.59
49	TN	501	GDP	C5-N7	-2.03	1.35	1.39
49	LB	501	GDP	C5-N7	-2.03	1.35	1.39
49	BB	501	GDP	C5-N7	-2.03	1.35	1.39
47	DA	501	GTP	PA-O3A	2.03	1.61	1.59
47	LK	501	GTP	C5-N7	-2.02	1.35	1.39
49	PN	502	GDP	C5-N7	-2.02	1.35	1.39
47	UM	501	GTP	PB-O3A	2.02	1.61	1.59
49	PB	501	GDP	C5-N7	-2.02	1.35	1.39
49	FB	501	GDP	C5-N7	-2.02	1.35	1.39
47	OM	501	GTP	PB-O3B	2.02	1.61	1.59
47	HM	501	GTP	PA-O3A	2.02	1.61	1.59
47	VE	501	GTP	C5-N7	-2.01	1.35	1.39
49	OB	501	GDP	C5-N7	-2.01	1.35	1.39
49	CN	501	GDP	C5-N7	-2.01	1.35	1.39
47	JC	501	GTP	PA-O3A	2.01	1.61	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
49	IB	501	GDP	C5-N7	-2.00	1.35	1.39
47	AK	501	GTP	C5-N7	-2.00	1.35	1.39
47	II	501	GTP	C5-N7	-2.00	1.35	1.39
49	RB	501	GDP	C5-N7	-2.00	1.35	1.39

All (2519) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
49	VD	501	GDP	C5-C4-N3	-6.41	118.19	128.39
49	KH	501	GDP	C5-C4-N3	-6.40	118.20	128.39
49	RB	501	GDP	C5-C4-N3	-6.40	118.21	128.39
49	ID	501	GDP	C5-C4-N3	-6.29	118.38	128.39
49	RJ	501	GDP	C5-C4-N3	-6.27	118.42	128.39
49	BH	501	GDP	C5-C4-N3	-6.27	118.42	128.39
49	QD	501	GDP	C5-C4-N3	-6.25	118.44	128.39
49	SB	501	GDP	C5-C4-N3	-6.24	118.46	128.39
49	WF	501	GDP	C5-C4-N3	-6.23	118.48	128.39
49	OH	501	GDP	C5-C4-N3	-6.22	118.48	128.39
49	CH	501	GDP	C5-C4-N3	-6.22	118.49	128.39
49	IN	501	GDP	C5-C4-N3	-6.22	118.50	128.39
49	AN	501	GDP	C5-C4-N3	-6.21	118.51	128.39
49	DJ	501	GDP	C5-C4-N3	-6.21	118.51	128.39
49	DD	501	GDP	C5-C4-N3	-6.21	118.51	128.39
49	FD	501	GDP	C5-C4-N3	-6.20	118.52	128.39
49	VB	501	GDP	C5-C4-N3	-6.20	118.52	128.39
49	CD	501	GDP	C5-C4-N3	-6.19	118.53	128.39
49	HD	501	GDP	C5-C4-N3	-6.19	118.53	128.39
49	RN	501	GDP	C5-C4-N3	-6.19	118.54	128.39
49	FB	501	GDP	C5-C4-N3	-6.19	118.54	128.39
49	VH	501	GDP	C5-C4-N3	-6.18	118.55	128.39
49	DB	501	GDP	C5-C4-N3	-6.18	118.55	128.39
49	QB	501	GDP	C5-C4-N3	-6.18	118.55	128.39
49	BN	501	GDP	C5-C4-N3	-6.18	118.55	128.39
49	PB	501	GDP	C5-C4-N3	-6.18	118.55	128.39
49	DN	501	GDP	C5-C4-N3	-6.18	118.56	128.39
49	FL	502	GDP	C5-C4-N3	-6.18	118.56	128.39
49	BB	501	GDP	C5-C4-N3	-6.17	118.56	128.39
49	HB	501	GDP	C5-C4-N3	-6.17	118.56	128.39
49	GB	502	GDP	C5-C4-N3	-6.17	118.57	128.39
49	PL	501	GDP	C5-C4-N3	-6.17	118.57	128.39
49	WN	501	GDP	C5-C4-N3	-6.17	118.57	128.39
49	TN	501	GDP	C5-C4-N3	-6.17	118.58	128.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
49	GH	501	GDP	C5-C4-N3	-6.16	118.58	128.39
49	IF	501	GDP	C5-C4-N3	-6.16	118.59	128.39
49	QN	501	GDP	C5-C4-N3	-6.16	118.59	128.39
49	AB	501	GDP	C5-C4-N3	-6.15	118.59	128.39
49	BJ	501	GDP	C5-C4-N3	-6.15	118.59	128.39
49	UB	501	GDP	C5-C4-N3	-6.15	118.59	128.39
49	UD	501	GDP	C5-C4-N3	-6.15	118.59	128.39
49	SN	501	GDP	C5-C4-N3	-6.15	118.60	128.39
49	LD	501	GDP	C5-C4-N3	-6.15	118.60	128.39
49	PD	502	GDP	C5-C4-N3	-6.15	118.60	128.39
49	ED	501	GDP	C5-C4-N3	-6.15	118.61	128.39
49	QJ	501	GDP	C5-C4-N3	-6.14	118.61	128.39
49	EB	501	GDP	C5-C4-N3	-6.14	118.61	128.39
49	UH	501	GDP	C5-C4-N3	-6.14	118.61	128.39
49	TB	501	GDP	C5-C4-N3	-6.14	118.62	128.39
49	CN	501	GDP	C5-C4-N3	-6.14	118.62	128.39
49	AD	501	GDP	C5-C4-N3	-6.14	118.62	128.39
49	FN	501	GDP	C5-C4-N3	-6.13	118.63	128.39
49	NF	501	GDP	C5-C4-N3	-6.13	118.63	128.39
49	UF	501	GDP	C5-C4-N3	-6.13	118.63	128.39
49	WB	501	GDP	C5-C4-N3	-6.13	118.64	128.39
49	BF	501	GDP	C5-C4-N3	-6.12	118.64	128.39
49	EN	501	GDP	C5-C4-N3	-6.12	118.65	128.39
49	UJ	501	GDP	C5-C4-N3	-6.12	118.65	128.39
49	ND	502	GDP	C5-C4-N3	-6.11	118.66	128.39
49	CJ	501	GDP	C5-C4-N3	-6.11	118.67	128.39
49	NB	501	GDP	C5-C4-N3	-6.11	118.67	128.39
49	OJ	501	GDP	C5-C4-N3	-6.10	118.68	128.39
49	SL	501	GDP	C5-C4-N3	-6.10	118.68	128.39
49	VF	501	GDP	C5-C4-N3	-6.10	118.68	128.39
49	SD	501	GDP	C5-C4-N3	-6.10	118.68	128.39
49	CL	501	GDP	C5-C4-N3	-6.10	118.69	128.39
49	WD	501	GDP	C5-C4-N3	-6.10	118.69	128.39
49	GN	502	GDP	C5-C4-N3	-6.09	118.69	128.39
49	DL	501	GDP	C5-C4-N3	-6.09	118.69	128.39
49	AJ	501	GDP	C5-C4-N3	-6.09	118.70	128.39
49	UN	501	GDP	C5-C4-N3	-6.09	118.70	128.39
49	DH	501	GDP	C5-C4-N3	-6.09	118.70	128.39
49	JD	501	GDP	C5-C4-N3	-6.09	118.70	128.39
49	QL	501	GDP	C5-C4-N3	-6.08	118.71	128.39
49	RF	501	GDP	C5-C4-N3	-6.08	118.71	128.39
49	JN	501	GDP	C5-C4-N3	-6.08	118.71	128.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
49	PH	501	GDP	C5-C4-N3	-6.08	118.71	128.39
49	VN	501	GDP	C5-C4-N3	-6.08	118.72	128.39
49	AL	501	GDP	C5-C4-N3	-6.07	118.72	128.39
49	OF	502	GDP	C5-C4-N3	-6.07	118.73	128.39
49	NN	501	GDP	C5-C4-N3	-6.07	118.73	128.39
49	JF	501	GDP	C5-C4-N3	-6.07	118.73	128.39
49	TJ	501	GDP	C5-C4-N3	-6.07	118.73	128.39
49	RL	501	GDP	C5-C4-N3	-6.07	118.73	128.39
49	HN	501	GDP	C5-C4-N3	-6.07	118.74	128.39
49	TF	501	GDP	C5-C4-N3	-6.07	118.74	128.39
49	EJ	501	GDP	C5-C4-N3	-6.06	118.75	128.39
49	PF	501	GDP	C5-C4-N3	-6.06	118.75	128.39
49	MF	501	GDP	C5-C4-N3	-6.05	118.75	128.39
49	IL	501	GDP	C5-C4-N3	-6.05	118.75	128.39
49	MJ	501	GDP	C5-C4-N3	-6.05	118.75	128.39
49	TL	501	GDP	C5-C4-N3	-6.05	118.75	128.39
49	AH	501	GDP	C5-C4-N3	-6.05	118.76	128.39
49	TD	501	GDP	C5-C4-N3	-6.05	118.76	128.39
49	NL	501	GDP	C5-C4-N3	-6.05	118.76	128.39
49	WL	501	GDP	C5-C4-N3	-6.05	118.76	128.39
49	GF	501	GDP	C5-C4-N3	-6.05	118.76	128.39
49	MD	501	GDP	C5-C4-N3	-6.05	118.77	128.39
49	VL	501	GDP	C5-C4-N3	-6.04	118.77	128.39
49	QF	501	GDP	C5-C4-N3	-6.04	118.77	128.39
49	MB	501	GDP	C5-C4-N3	-6.04	118.78	128.39
49	HF	501	GDP	C5-C4-N3	-6.04	118.78	128.39
49	GL	502	GDP	C5-C4-N3	-6.04	118.78	128.39
49	LB	501	GDP	C5-C4-N3	-6.04	118.78	128.39
49	LL	501	GDP	C5-C4-N3	-6.04	118.78	128.39
49	SH	501	GDP	C5-C4-N3	-6.04	118.78	128.39
49	PN	502	GDP	C5-C4-N3	-6.04	118.78	128.39
49	IB	501	GDP	C5-C4-N3	-6.03	118.79	128.39
49	EH	501	GDP	C5-C4-N3	-6.03	118.79	128.39
49	OD	501	GDP	C5-C4-N3	-6.03	118.79	128.39
49	EL	501	GDP	C5-C4-N3	-6.03	118.79	128.39
49	DF	501	GDP	C5-C4-N3	-6.03	118.80	128.39
49	IJ	501	GDP	C5-C4-N3	-6.02	118.80	128.39
49	LJ	501	GDP	C5-C4-N3	-6.02	118.81	128.39
49	GJ	501	GDP	C5-C4-N3	-6.02	118.81	128.39
49	LH	501	GDP	C5-C4-N3	-6.02	118.81	128.39
49	RD	501	GDP	C5-C4-N3	-6.02	118.81	128.39
49	WJ	501	GDP	C5-C4-N3	-6.02	118.81	128.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
49	ON	501	GDP	C5-C4-N3	-6.02	118.81	128.39
49	AF	501	GDP	C5-C4-N3	-6.01	118.82	128.39
49	QH	501	GDP	C5-C4-N3	-6.01	118.82	128.39
49	BL	501	GDP	C5-C4-N3	-6.01	118.82	128.39
49	HH	501	GDP	C5-C4-N3	-6.01	118.82	128.39
49	SF	501	GDP	C5-C4-N3	-6.01	118.82	128.39
49	GD	501	GDP	C5-C4-N3	-6.00	118.83	128.39
49	NJ	501	GDP	C5-C4-N3	-6.00	118.83	128.39
49	OB	501	GDP	C5-C4-N3	-6.00	118.84	128.39
49	HJ	501	GDP	C5-C4-N3	-6.00	118.84	128.39
49	TH	501	GDP	C5-C4-N3	-6.00	118.84	128.39
49	OL	501	GDP	C5-C4-N3	-6.00	118.84	128.39
49	RH	501	GDP	C5-C4-N3	-5.99	118.86	128.39
49	NH	501	GDP	C5-C4-N3	-5.99	118.86	128.39
49	FJ	501	GDP	C5-C4-N3	-5.99	118.86	128.39
49	PJ	501	GDP	C5-C4-N3	-5.99	118.86	128.39
49	CB	501	GDP	C5-C4-N3	-5.98	118.87	128.39
49	JJ	501	GDP	C5-C4-N3	-5.98	118.87	128.39
49	MN	501	GDP	C5-C4-N3	-5.98	118.87	128.39
49	VJ	501	GDP	C5-C4-N3	-5.98	118.88	128.39
49	WH	501	GDP	C5-C4-N3	-5.97	118.89	128.39
49	KL	501	GDP	C5-C4-N3	-5.97	118.89	128.39
49	HL	501	GDP	C5-C4-N3	-5.96	118.91	128.39
49	JB	501	GDP	C5-C4-N3	-5.95	118.92	128.39
49	ML	501	GDP	C5-C4-N3	-5.95	118.93	128.39
49	KD	501	GDP	C5-C4-N3	-5.94	118.93	128.39
49	EF	501	GDP	C5-C4-N3	-5.94	118.94	128.39
49	UL	501	GDP	C5-C4-N3	-5.94	118.94	128.39
49	BD	501	GDP	C5-C4-N3	-5.94	118.94	128.39
49	LF	501	GDP	C5-C4-N3	-5.94	118.94	128.39
49	KB	501	GDP	C5-C4-N3	-5.93	118.96	128.39
49	MH	501	GDP	C5-C4-N3	-5.93	118.96	128.39
49	JL	501	GDP	C5-C4-N3	-5.93	118.96	128.39
49	LN	501	GDP	C5-C4-N3	-5.92	118.96	128.39
49	FF	501	GDP	C5-C4-N3	-5.90	119.00	128.39
49	FH	501	GDP	C5-C4-N3	-5.90	119.00	128.39
49	IH	501	GDP	C5-C4-N3	-5.89	119.02	128.39
49	KF	501	GDP	C5-C4-N3	-5.85	119.09	128.39
49	JH	501	GDP	C5-C4-N3	-5.81	119.14	128.39
49	KJ	501	GDP	C5-C4-N3	-5.81	119.15	128.39
49	SJ	501	GDP	C5-C4-N3	-5.79	119.17	128.39
49	CF	501	GDP	C5-C4-N3	-5.77	119.20	128.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
49	KN	501	GDP	C5-C4-N3	-5.73	119.26	128.39
47	EM	501	GTP	C5-C4-N3	-5.43	119.74	128.39
47	BG	501	GTP	C5-C4-N3	-5.33	119.90	128.39
47	LK	501	GTP	C5-C4-N3	-5.31	119.93	128.39
47	IE	501	GTP	C5-C4-N3	-5.31	119.94	128.39
47	UI	501	GTP	C5-C4-N3	-5.30	119.95	128.39
47	QI	501	GTP	C5-C4-N3	-5.30	119.95	128.39
47	JK	501	GTP	C5-C4-N3	-5.30	119.96	128.39
47	PE	501	GTP	C5-C4-N3	-5.29	119.97	128.39
47	HE	501	GTP	C5-C4-N3	-5.29	119.97	128.39
47	ME	501	GTP	C5-C4-N3	-5.29	119.97	128.39
47	DG	501	GTP	C5-C4-N3	-5.27	120.00	128.39
47	PK	501	GTP	C5-C4-N3	-5.27	120.00	128.39
47	UM	501	GTP	C5-C4-N3	-5.27	120.01	128.39
47	AC	501	GTP	C5-C4-N3	-5.27	120.01	128.39
47	IK	501	GTP	C5-C4-N3	-5.27	120.01	128.39
47	BM	501	GTP	C5-C4-N3	-5.26	120.01	128.39
47	PG	501	GTP	C5-C4-N3	-5.26	120.02	128.39
47	PM	501	GTP	C5-C4-N3	-5.26	120.03	128.39
47	VE	501	GTP	C5-C4-N3	-5.25	120.03	128.39
47	WI	501	GTP	C5-C4-N3	-5.25	120.03	128.39
47	DK	501	GTP	C5-C4-N3	-5.25	120.04	128.39
47	QG	501	GTP	C5-C4-N3	-5.25	120.04	128.39
47	CK	501	GTP	C5-C4-N3	-5.25	120.04	128.39
47	UG	501	GTP	C5-C4-N3	-5.24	120.04	128.39
47	IC	501	GTP	C5-C4-N3	-5.24	120.04	128.39
47	GA	501	GTP	C5-C4-N3	-5.24	120.05	128.39
47	JG	501	GTP	C5-C4-N3	-5.24	120.05	128.39
47	DI	501	GTP	C5-C4-N3	-5.24	120.05	128.39
47	HA	501	GTP	C5-C4-N3	-5.24	120.06	128.39
47	PD	501	GTP	C5-C4-N3	-5.24	120.06	128.39
47	HI	501	GTP	C5-C4-N3	-5.23	120.06	128.39
47	BC	502	GTP	C5-C4-N3	-5.23	120.06	128.39
47	VK	501	GTP	C5-C4-N3	-5.23	120.06	128.39
47	QC	501	GTP	C5-C4-N3	-5.23	120.07	128.39
47	FA	501	GTP	C5-C4-N3	-5.22	120.08	128.39
47	GC	501	GTP	C5-C4-N3	-5.22	120.08	128.39
47	WC	501	GTP	C5-C4-N3	-5.21	120.10	128.39
47	BE	501	GTP	C5-C4-N3	-5.21	120.11	128.39
47	RC	501	GTP	C5-C4-N3	-5.20	120.11	128.39
47	BA	501	GTP	C5-C4-N3	-5.20	120.11	128.39
47	GG	501	GTP	C5-C4-N3	-5.20	120.11	128.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	CI	501	GTP	C5-C4-N3	-5.20	120.12	128.39
47	BI	501	GTP	C5-C4-N3	-5.20	120.12	128.39
47	UK	501	GTP	C5-C4-N3	-5.20	120.12	128.39
47	RG	501	GTP	C5-C4-N3	-5.19	120.12	128.39
47	FM	501	GTP	C5-C4-N3	-5.19	120.13	128.39
47	HC	501	GTP	C5-C4-N3	-5.19	120.13	128.39
49	SB	501	GDP	C2-N3-C4	5.19	121.24	112.30
47	AG	501	GTP	C5-C4-N3	-5.19	120.13	128.39
47	HK	501	GTP	C5-C4-N3	-5.19	120.13	128.39
47	QE	501	GTP	C5-C4-N3	-5.19	120.13	128.39
47	LG	501	GTP	C5-C4-N3	-5.18	120.14	128.39
47	MA	501	GTP	C5-C4-N3	-5.18	120.14	128.39
47	HG	501	GTP	C5-C4-N3	-5.18	120.14	128.39
47	WA	501	GTP	C5-C4-N3	-5.18	120.14	128.39
47	CC	501	GTP	C5-C4-N3	-5.18	120.15	128.39
47	CM	501	GTP	C5-C4-N3	-5.17	120.15	128.39
47	JA	501	GTP	C5-C4-N3	-5.17	120.16	128.39
47	UE	501	GTP	C5-C4-N3	-5.17	120.16	128.39
47	WM	501	GTP	C5-C4-N3	-5.17	120.16	128.39
47	DA	501	GTP	C5-C4-N3	-5.17	120.17	128.39
47	QM	501	GTP	C5-C4-N3	-5.17	120.17	128.39
47	EA	501	GTP	C5-C4-N3	-5.17	120.17	128.39
47	DE	501	GTP	C5-C4-N3	-5.16	120.17	128.39
47	JI	501	GTP	C5-C4-N3	-5.16	120.17	128.39
47	NA	501	GTP	C5-C4-N3	-5.16	120.18	128.39
47	SM	501	GTP	C5-C4-N3	-5.16	120.18	128.39
47	GK	501	GTP	C5-C4-N3	-5.16	120.18	128.39
47	CA	501	GTP	C5-C4-N3	-5.15	120.19	128.39
47	AI	501	GTP	C5-C4-N3	-5.15	120.19	128.39
47	BK	501	GTP	C5-C4-N3	-5.15	120.19	128.39
47	DC	501	GTP	C5-C4-N3	-5.15	120.19	128.39
49	KH	501	GDP	C2-N3-C4	5.15	121.17	112.30
47	AM	501	GTP	C5-C4-N3	-5.15	120.19	128.39
47	QK	501	GTP	C5-C4-N3	-5.15	120.19	128.39
47	RI	501	GTP	C5-C4-N3	-5.15	120.19	128.39
49	RB	501	GDP	C2-N3-C4	5.15	121.17	112.30
47	HM	501	GTP	C5-C4-N3	-5.15	120.20	128.39
47	JC	501	GTP	C5-C4-N3	-5.15	120.20	128.39
47	VC	501	GTP	C5-C4-N3	-5.15	120.20	128.39
47	KG	501	GTP	C5-C4-N3	-5.15	120.20	128.39
47	RK	501	GTP	C5-C4-N3	-5.15	120.20	128.39
47	TC	501	GTP	C5-C4-N3	-5.14	120.20	128.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	PA	501	GTP	C5-C4-N3	-5.14	120.20	128.39
47	UA	501	GTP	C5-C4-N3	-5.14	120.21	128.39
47	JM	501	GTP	C5-C4-N3	-5.14	120.21	128.39
47	WG	501	GTP	C5-C4-N3	-5.14	120.21	128.39
47	SA	501	GTP	C5-C4-N3	-5.14	120.21	128.39
47	NI	501	GTP	C5-C4-N3	-5.14	120.21	128.39
47	QA	501	GTP	C5-C4-N3	-5.14	120.21	128.39
47	LC	501	GTP	C5-C4-N3	-5.14	120.21	128.39
47	VM	501	GTP	C5-C4-N3	-5.14	120.21	128.39
47	KA	501	GTP	C5-C4-N3	-5.14	120.22	128.39
47	RE	501	GTP	C5-C4-N3	-5.14	120.22	128.39
47	TA	501	GTP	C5-C4-N3	-5.13	120.22	128.39
47	LA	501	GTP	C5-C4-N3	-5.13	120.22	128.39
47	AK	501	GTP	C5-C4-N3	-5.13	120.23	128.39
47	II	501	GTP	C5-C4-N3	-5.13	120.23	128.39
47	IA	501	GTP	C5-C4-N3	-5.13	120.23	128.39
47	IM	501	GTP	C5-C4-N3	-5.13	120.23	128.39
47	AA	501	GTP	C5-C4-N3	-5.13	120.23	128.39
47	GI	501	GTP	C5-C4-N3	-5.13	120.23	128.39
47	LE	501	GTP	C5-C4-N3	-5.12	120.23	128.39
47	CE	501	GTP	C5-C4-N3	-5.12	120.24	128.39
47	AE	501	GTP	C5-C4-N3	-5.12	120.24	128.39
47	TM	501	GTP	C5-C4-N3	-5.12	120.24	128.39
47	MC	501	GTP	C5-C4-N3	-5.12	120.24	128.39
47	MK	501	GTP	C5-C4-N3	-5.12	120.24	128.39
47	KI	501	GTP	C5-C4-N3	-5.12	120.24	128.39
47	MG	501	GTP	C5-C4-N3	-5.11	120.25	128.39
47	MI	501	GTP	C5-C4-N3	-5.11	120.25	128.39
47	PI	501	GTP	C5-C4-N3	-5.11	120.25	128.39
47	GM	501	GTP	C5-C4-N3	-5.11	120.25	128.39
47	GE	501	GTP	C5-C4-N3	-5.11	120.25	128.39
47	KC	501	GTP	C5-C4-N3	-5.11	120.25	128.39
49	ID	501	GDP	C2-N3-C4	5.11	121.09	112.30
47	UC	501	GTP	C5-C4-N3	-5.10	120.27	128.39
47	CG	501	GTP	C5-C4-N3	-5.10	120.27	128.39
47	OC	501	GTP	C5-C4-N3	-5.10	120.27	128.39
47	LI	501	GTP	C5-C4-N3	-5.10	120.28	128.39
47	IG	501	GTP	C5-C4-N3	-5.09	120.29	128.39
47	JE	501	GTP	C5-C4-N3	-5.08	120.30	128.39
49	RN	501	GDP	C2-N3-C4	5.08	121.05	112.30
47	RA	501	GTP	C5-C4-N3	-5.08	120.31	128.39
49	UB	501	GDP	C2-N3-C4	5.08	121.04	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
49	VD	501	GDP	C2-N3-C4	5.07	121.04	112.30
47	OM	501	GTP	C5-C4-N3	-5.07	120.32	128.39
47	NG	501	GTP	C5-C4-N3	-5.07	120.32	128.39
47	FC	501	GTP	C5-C4-N3	-5.07	120.32	128.39
49	HB	501	GDP	C2-N3-C4	5.07	121.03	112.30
49	AB	501	GDP	C2-N3-C4	5.06	121.02	112.30
49	TN	501	GDP	C2-N3-C4	5.06	121.02	112.30
49	PB	501	GDP	C2-N3-C4	5.06	121.02	112.30
49	FB	501	GDP	C2-N3-C4	5.06	121.01	112.30
49	TB	501	GDP	C2-N3-C4	5.06	121.01	112.30
47	FI	501	GTP	C5-C4-N3	-5.06	120.34	128.39
49	DN	501	GDP	C2-N3-C4	5.05	121.00	112.30
49	EN	501	GDP	C2-N3-C4	5.05	121.00	112.30
49	IN	501	GDP	C2-N3-C4	5.05	121.00	112.30
47	FK	501	GTP	C5-C4-N3	-5.05	120.35	128.39
47	FE	501	GTP	C5-C4-N3	-5.05	120.35	128.39
47	VG	501	GTP	C5-C4-N3	-5.05	120.36	128.39
47	NM	501	GTP	C5-C4-N3	-5.05	120.36	128.39
49	DB	501	GDP	C2-N3-C4	5.05	120.99	112.30
49	CN	501	GDP	C2-N3-C4	5.05	120.99	112.30
49	FN	501	GDP	C2-N3-C4	5.05	120.99	112.30
49	CH	501	GDP	C2-N3-C4	5.04	120.99	112.30
49	NB	501	GDP	C2-N3-C4	5.04	120.99	112.30
49	SN	501	GDP	C2-N3-C4	5.04	120.99	112.30
47	LM	501	GTP	C5-C4-N3	-5.04	120.36	128.39
49	BH	501	GDP	C2-N3-C4	5.04	120.99	112.30
47	OA	501	GTP	C5-C4-N3	-5.04	120.36	128.39
47	OG	501	GTP	C5-C4-N3	-5.04	120.36	128.39
49	BN	501	GDP	C2-N3-C4	5.04	120.98	112.30
47	NK	501	GTP	C5-C4-N3	-5.04	120.37	128.39
47	EC	501	GTP	C5-C4-N3	-5.04	120.37	128.39
47	NC	501	GTP	C5-C4-N3	-5.04	120.37	128.39
47	NE	501	GTP	C5-C4-N3	-5.04	120.37	128.39
49	CD	501	GDP	C2-N3-C4	5.04	120.98	112.30
47	OF	501	GTP	C5-C4-N3	-5.04	120.37	128.39
47	WE	501	GTP	C5-C4-N3	-5.04	120.38	128.39
47	KM	501	GTP	C5-C4-N3	-5.03	120.38	128.39
47	DM	501	GTP	C5-C4-N3	-5.03	120.38	128.39
49	GB	502	GDP	C2-N3-C4	5.03	120.97	112.30
47	KE	501	GTP	C5-C4-N3	-5.03	120.38	128.39
47	WK	501	GTP	C5-C4-N3	-5.03	120.38	128.39
49	BB	501	GDP	C2-N3-C4	5.03	120.96	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
49	LD	501	GDP	C2-N3-C4	5.03	120.96	112.30
49	QN	501	GDP	C2-N3-C4	5.03	120.96	112.30
47	EI	501	GTP	C5-C4-N3	-5.03	120.39	128.39
47	EG	501	GTP	C5-C4-N3	-5.03	120.39	128.39
49	EB	501	GDP	C2-N3-C4	5.03	120.96	112.30
49	OH	501	GDP	C2-N3-C4	5.03	120.96	112.30
47	MM	501	GTP	C5-C4-N3	-5.03	120.39	128.39
49	CL	501	GDP	C2-N3-C4	5.02	120.94	112.30
49	FL	502	GDP	C2-N3-C4	5.01	120.94	112.30
49	JD	501	GDP	C2-N3-C4	5.01	120.93	112.30
49	AN	501	GDP	C2-N3-C4	5.01	120.93	112.30
49	DD	501	GDP	C2-N3-C4	5.01	120.93	112.30
49	VB	501	GDP	C2-N3-C4	5.01	120.93	112.30
49	WB	501	GDP	C2-N3-C4	5.01	120.93	112.30
47	VA	501	GTP	C5-C4-N3	-5.01	120.42	128.39
49	UN	501	GDP	C2-N3-C4	5.01	120.93	112.30
49	BF	501	GDP	C2-N3-C4	5.01	120.93	112.30
49	CJ	501	GDP	C2-N3-C4	5.01	120.93	112.30
49	IB	501	GDP	C2-N3-C4	5.01	120.92	112.30
49	ND	502	GDP	C2-N3-C4	5.01	120.92	112.30
49	WF	501	GDP	C2-N3-C4	5.01	120.92	112.30
47	FG	501	GTP	C5-C4-N3	-5.01	120.42	128.39
49	PJ	501	GDP	C2-N3-C4	5.00	120.92	112.30
49	LL	501	GDP	C2-N3-C4	5.00	120.91	112.30
49	NF	501	GDP	C2-N3-C4	5.00	120.91	112.30
49	NL	501	GDP	C2-N3-C4	4.99	120.90	112.30
47	EK	501	GTP	C5-C4-N3	-4.99	120.44	128.39
49	VH	501	GDP	C2-N3-C4	4.99	120.90	112.30
49	NN	501	GDP	C2-N3-C4	4.99	120.90	112.30
49	ED	501	GDP	C2-N3-C4	4.99	120.89	112.30
49	PD	502	GDP	C2-N3-C4	4.99	120.89	112.30
49	GH	501	GDP	C2-N3-C4	4.99	120.89	112.30
49	TL	501	GDP	C2-N3-C4	4.99	120.89	112.30
49	LB	501	GDP	C2-N3-C4	4.99	120.89	112.30
49	BJ	501	GDP	C2-N3-C4	4.99	120.89	112.30
49	PN	502	GDP	C2-N3-C4	4.99	120.89	112.30
49	WN	501	GDP	C2-N3-C4	4.98	120.89	112.30
49	DF	501	GDP	C2-N3-C4	4.98	120.88	112.30
49	OF	502	GDP	C2-N3-C4	4.98	120.88	112.30
49	HD	501	GDP	C2-N3-C4	4.98	120.88	112.30
49	AL	501	GDP	C2-N3-C4	4.98	120.87	112.30
49	DL	501	GDP	C2-N3-C4	4.98	120.87	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
49	QB	501	GDP	C2-N3-C4	4.98	120.87	112.30
49	AJ	501	GDP	C2-N3-C4	4.98	120.87	112.30
49	FD	501	GDP	C2-N3-C4	4.98	120.87	112.30
49	QJ	501	GDP	C2-N3-C4	4.98	120.87	112.30
49	DH	501	GDP	C2-N3-C4	4.97	120.87	112.30
49	DJ	501	GDP	C2-N3-C4	4.97	120.87	112.30
49	OJ	501	GDP	C2-N3-C4	4.97	120.87	112.30
49	WD	501	GDP	C2-N3-C4	4.97	120.87	112.30
49	WH	501	GDP	C2-N3-C4	4.97	120.86	112.30
47	VI	501	GTP	C5-C4-N3	-4.97	120.48	128.39
49	KJ	501	GDP	C2-N3-C4	4.97	120.86	112.30
47	OI	501	GTP	C5-C4-N3	-4.97	120.48	128.39
49	PL	501	GDP	C2-N3-C4	4.97	120.86	112.30
49	JN	501	GDP	C2-N3-C4	4.97	120.86	112.30
49	NH	501	GDP	C2-N3-C4	4.97	120.85	112.30
49	AD	501	GDP	C2-N3-C4	4.96	120.85	112.30
49	MJ	501	GDP	C2-N3-C4	4.96	120.85	112.30
49	MB	501	GDP	C2-N3-C4	4.96	120.85	112.30
49	UD	501	GDP	C2-N3-C4	4.96	120.85	112.30
47	EE	501	GTP	C5-C4-N3	-4.96	120.49	128.39
49	GN	502	GDP	C2-N3-C4	4.96	120.84	112.30
49	OL	501	GDP	C2-N3-C4	4.96	120.84	112.30
49	IL	501	GDP	C2-N3-C4	4.96	120.84	112.30
49	QD	501	GDP	C2-N3-C4	4.96	120.84	112.30
49	PH	501	GDP	C2-N3-C4	4.96	120.84	112.30
49	AH	501	GDP	C2-N3-C4	4.96	120.83	112.30
49	QF	501	GDP	C2-N3-C4	4.95	120.83	112.30
49	UF	501	GDP	C2-N3-C4	4.95	120.83	112.30
49	TJ	501	GDP	C2-N3-C4	4.95	120.83	112.30
49	TD	501	GDP	C2-N3-C4	4.95	120.83	112.30
47	SI	501	GTP	C5-C4-N3	-4.95	120.51	128.39
49	EH	501	GDP	C2-N3-C4	4.95	120.82	112.30
49	EL	501	GDP	C2-N3-C4	4.95	120.82	112.30
49	KB	501	GDP	C2-N3-C4	4.95	120.82	112.30
49	KL	501	GDP	C2-N3-C4	4.95	120.82	112.30
49	IF	501	GDP	C2-N3-C4	4.95	120.82	112.30
49	NJ	501	GDP	C2-N3-C4	4.94	120.82	112.30
49	LH	501	GDP	C2-N3-C4	4.94	120.81	112.30
47	OK	501	GTP	C5-C4-N3	-4.94	120.53	128.39
47	TI	501	GTP	C5-C4-N3	-4.94	120.53	128.39
49	GD	501	GDP	C2-N3-C4	4.94	120.81	112.30
49	OB	501	GDP	C2-N3-C4	4.94	120.81	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
49	TH	501	GDP	C2-N3-C4	4.94	120.80	112.30
49	EF	501	GDP	C2-N3-C4	4.94	120.80	112.30
49	FJ	501	GDP	C2-N3-C4	4.94	120.80	112.30
49	UJ	501	GDP	C2-N3-C4	4.94	120.80	112.30
47	KK	501	GTP	C5-C4-N3	-4.94	120.53	128.39
49	OD	501	GDP	C2-N3-C4	4.94	120.80	112.30
49	TF	501	GDP	C2-N3-C4	4.94	120.80	112.30
47	TE	501	GTP	C5-C4-N3	-4.93	120.54	128.39
49	UH	501	GDP	C2-N3-C4	4.93	120.80	112.30
49	HH	501	GDP	C2-N3-C4	4.93	120.80	112.30
49	BL	501	GDP	C2-N3-C4	4.93	120.80	112.30
49	PF	501	GDP	C2-N3-C4	4.93	120.79	112.30
49	VJ	501	GDP	C2-N3-C4	4.93	120.79	112.30
49	JH	501	GDP	C2-N3-C4	4.93	120.79	112.30
49	MF	501	GDP	C2-N3-C4	4.93	120.78	112.30
49	HN	501	GDP	C2-N3-C4	4.92	120.78	112.30
47	SE	501	GTP	C5-C4-N3	-4.92	120.55	128.39
49	GJ	501	GDP	C2-N3-C4	4.92	120.78	112.30
49	RL	501	GDP	C2-N3-C4	4.92	120.78	112.30
49	VL	501	GDP	C2-N3-C4	4.92	120.78	112.30
49	KD	501	GDP	C2-N3-C4	4.92	120.77	112.30
49	QL	501	GDP	C2-N3-C4	4.92	120.77	112.30
49	SL	501	GDP	C2-N3-C4	4.91	120.77	112.30
49	VN	501	GDP	C2-N3-C4	4.91	120.76	112.30
49	CB	501	GDP	C2-N3-C4	4.91	120.76	112.30
49	JF	501	GDP	C2-N3-C4	4.91	120.76	112.30
49	BD	501	GDP	C2-N3-C4	4.91	120.75	112.30
49	MD	501	GDP	C2-N3-C4	4.91	120.75	112.30
49	MN	501	GDP	C2-N3-C4	4.91	120.75	112.30
49	SF	501	GDP	C2-N3-C4	4.91	120.75	112.30
49	UL	501	GDP	C2-N3-C4	4.91	120.75	112.30
49	KF	501	GDP	C2-N3-C4	4.91	120.75	112.30
49	IJ	501	GDP	C2-N3-C4	4.90	120.75	112.30
49	LN	501	GDP	C2-N3-C4	4.90	120.75	112.30
49	ON	501	GDP	C2-N3-C4	4.90	120.74	112.30
49	JL	501	GDP	C2-N3-C4	4.90	120.74	112.30
49	WJ	501	GDP	C2-N3-C4	4.90	120.74	112.30
47	SG	501	GTP	C5-C4-N3	-4.90	120.59	128.39
47	RM	501	GTP	C5-C4-N3	-4.90	120.59	128.39
49	VF	501	GDP	C2-N3-C4	4.90	120.73	112.30
49	EJ	501	GDP	C2-N3-C4	4.90	120.73	112.30
49	QH	501	GDP	C2-N3-C4	4.90	120.73	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
49	AF	501	GDP	C2-N3-C4	4.89	120.73	112.30
49	GF	501	GDP	C2-N3-C4	4.89	120.73	112.30
49	JJ	501	GDP	C2-N3-C4	4.89	120.73	112.30
49	HL	501	GDP	C2-N3-C4	4.89	120.72	112.30
49	RF	501	GDP	C2-N3-C4	4.89	120.72	112.30
49	LJ	501	GDP	C2-N3-C4	4.88	120.71	112.30
49	SH	501	GDP	C2-N3-C4	4.88	120.71	112.30
49	WL	501	GDP	C2-N3-C4	4.88	120.71	112.30
49	RD	501	GDP	C2-N3-C4	4.88	120.70	112.30
47	TK	501	GTP	C5-C4-N3	-4.88	120.63	128.39
49	HF	501	GDP	C2-N3-C4	4.88	120.70	112.30
49	SD	501	GDP	C2-N3-C4	4.88	120.70	112.30
49	RH	501	GDP	C2-N3-C4	4.88	120.70	112.30
49	IH	501	GDP	C2-N3-C4	4.88	120.70	112.30
49	MH	501	GDP	C2-N3-C4	4.87	120.70	112.30
49	ML	501	GDP	C2-N3-C4	4.87	120.68	112.30
47	TG	501	GTP	C5-C4-N3	-4.86	120.65	128.39
49	HJ	501	GDP	C2-N3-C4	4.86	120.67	112.30
49	JB	501	GDP	C2-N3-C4	4.86	120.66	112.30
49	FF	501	GDP	C2-N3-C4	4.85	120.66	112.30
49	RJ	501	GDP	C2-N3-C4	4.85	120.66	112.30
49	FH	501	GDP	C2-N3-C4	4.85	120.65	112.30
47	SK	501	GTP	C5-C4-N3	-4.85	120.68	128.39
47	SC	501	GTP	C5-C4-N3	-4.84	120.68	128.39
49	LF	501	GDP	C2-N3-C4	4.84	120.64	112.30
49	VD	501	GDP	N9-C4-N3	4.84	135.63	125.95
47	GA	501	GTP	C2-N3-C4	4.83	120.62	112.30
49	GL	502	GDP	C2-N3-C4	4.83	120.61	112.30
49	KH	501	GDP	N9-C4-N3	4.81	135.58	125.95
49	KN	501	GDP	C2-N3-C4	4.81	120.58	112.30
49	SJ	501	GDP	C2-N3-C4	4.80	120.58	112.30
49	RJ	501	GDP	N9-C4-N3	4.80	135.55	125.95
47	HE	501	GTP	C2-N3-C4	4.80	120.56	112.30
47	FA	501	GTP	C2-N3-C4	4.80	120.56	112.30
49	CF	501	GDP	C2-N3-C4	4.78	120.54	112.30
49	AJ	501	GDP	N9-C4-N3	4.77	135.50	125.95
47	FI	501	GTP	C2-N3-C4	4.77	120.52	112.30
47	BM	501	GTP	C2-N3-C4	4.76	120.50	112.30
47	PM	501	GTP	C2-N3-C4	4.76	120.50	112.30
47	MA	501	GTP	C2-N3-C4	4.75	120.48	112.30
49	AB	501	GDP	N9-C4-N3	4.75	135.44	125.95
47	PE	501	GTP	C2-N3-C4	4.74	120.47	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	PK	501	GTP	C2-N3-C4	4.73	120.45	112.30
47	IK	501	GTP	C2-N3-C4	4.73	120.44	112.30
47	VC	501	GTP	C2-N3-C4	4.72	120.44	112.30
47	PG	501	GTP	C2-N3-C4	4.72	120.43	112.30
47	BA	501	GTP	C2-N3-C4	4.72	120.43	112.30
47	BG	501	GTP	C2-N3-C4	4.71	120.41	112.30
47	MI	501	GTP	C2-N3-C4	4.71	120.41	112.30
47	TC	501	GTP	C2-N3-C4	4.71	120.41	112.30
47	HC	501	GTP	C2-N3-C4	4.71	120.41	112.30
47	EM	501	GTP	C2-N3-C4	4.71	120.41	112.30
47	CI	501	GTP	C2-N3-C4	4.71	120.41	112.30
49	EN	501	GDP	N9-C4-N3	4.71	135.37	125.95
47	CE	501	GTP	C2-N3-C4	4.71	120.41	112.30
47	MM	501	GTP	C2-N3-C4	4.70	120.40	112.30
47	WI	501	GTP	C2-N3-C4	4.70	120.40	112.30
49	SB	501	GDP	N9-C4-N3	4.70	135.35	125.95
47	CC	501	GTP	C2-N3-C4	4.70	120.39	112.30
47	HK	501	GTP	C2-N3-C4	4.70	120.39	112.30
47	AA	501	GTP	C2-N3-C4	4.70	120.39	112.30
47	IE	501	GTP	C2-N3-C4	4.70	120.39	112.30
47	HA	501	GTP	C2-N3-C4	4.69	120.38	112.30
47	DI	501	GTP	C2-N3-C4	4.69	120.38	112.30
47	CK	501	GTP	C2-N3-C4	4.69	120.37	112.30
47	PI	501	GTP	C2-N3-C4	4.69	120.37	112.30
49	DJ	501	GDP	N9-C4-N3	4.69	135.32	125.95
47	QM	501	GTP	C2-N3-C4	4.69	120.37	112.30
47	HI	501	GTP	C2-N3-C4	4.68	120.37	112.30
47	RK	501	GTP	C2-N3-C4	4.68	120.37	112.30
47	AC	501	GTP	C2-N3-C4	4.68	120.36	112.30
47	MG	501	GTP	C2-N3-C4	4.68	120.36	112.30
47	WC	501	GTP	C2-N3-C4	4.68	120.36	112.30
47	IC	501	GTP	C2-N3-C4	4.68	120.36	112.30
47	CG	501	GTP	C2-N3-C4	4.68	120.35	112.30
47	QC	501	GTP	C2-N3-C4	4.68	120.35	112.30
47	VE	501	GTP	C2-N3-C4	4.68	120.35	112.30
49	BN	501	GDP	N9-C4-N3	4.68	135.30	125.95
47	AG	501	GTP	C2-N3-C4	4.67	120.35	112.30
49	SL	501	GDP	N9-C4-N3	4.67	135.29	125.95
49	ED	501	GDP	N9-C4-N3	4.67	135.29	125.95
47	WA	501	GTP	C2-N3-C4	4.67	120.34	112.30
47	GE	501	GTP	C2-N3-C4	4.67	120.34	112.30
47	OA	501	GTP	C2-N3-C4	4.67	120.34	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	FM	501	GTP	C2-N3-C4	4.67	120.34	112.30
47	BE	501	GTP	C2-N3-C4	4.67	120.33	112.30
47	RM	501	GTP	C2-N3-C4	4.66	120.33	112.30
49	EJ	501	GDP	N9-C4-N3	4.66	135.28	125.95
47	II	501	GTP	C2-N3-C4	4.66	120.33	112.30
49	OH	501	GDP	N9-C4-N3	4.66	135.27	125.95
49	CH	501	GDP	N9-C4-N3	4.66	135.27	125.95
47	JK	501	GTP	C2-N3-C4	4.66	120.33	112.30
47	UM	501	GTP	C2-N3-C4	4.66	120.33	112.30
47	UK	501	GTP	C2-N3-C4	4.66	120.33	112.30
49	RB	501	GDP	N9-C4-N3	4.66	135.27	125.95
49	TB	501	GDP	N9-C4-N3	4.66	135.27	125.95
47	JM	501	GTP	C2-N3-C4	4.66	120.32	112.30
47	QE	501	GTP	C2-N3-C4	4.66	120.32	112.30
49	WN	501	GDP	N9-C4-N3	4.66	135.26	125.95
47	UE	501	GTP	C2-N3-C4	4.66	120.32	112.30
47	UI	501	GTP	C2-N3-C4	4.66	120.32	112.30
49	QJ	501	GDP	N9-C4-N3	4.66	135.26	125.95
47	AI	501	GTP	C2-N3-C4	4.66	120.32	112.30
47	MK	501	GTP	C2-N3-C4	4.65	120.31	112.30
47	CA	501	GTP	C2-N3-C4	4.65	120.31	112.30
49	QD	501	GDP	N9-C4-N3	4.65	135.26	125.95
47	OC	501	GTP	C2-N3-C4	4.65	120.31	112.30
47	QG	501	GTP	C2-N3-C4	4.65	120.31	112.30
47	VK	501	GTP	C2-N3-C4	4.65	120.31	112.30
47	HG	501	GTP	C2-N3-C4	4.65	120.31	112.30
47	KE	501	GTP	C2-N3-C4	4.65	120.31	112.30
47	MC	501	GTP	C2-N3-C4	4.65	120.31	112.30
47	NC	501	GTP	C2-N3-C4	4.65	120.30	112.30
47	WM	501	GTP	C2-N3-C4	4.65	120.30	112.30
47	BI	501	GTP	C2-N3-C4	4.65	120.30	112.30
49	AD	501	GDP	N9-C4-N3	4.65	135.24	125.95
49	RF	501	GDP	N9-C4-N3	4.65	135.24	125.95
47	AE	501	GTP	C2-N3-C4	4.65	120.30	112.30
49	QB	501	GDP	N9-C4-N3	4.65	135.24	125.95
47	GI	501	GTP	C2-N3-C4	4.64	120.30	112.30
47	NI	501	GTP	C2-N3-C4	4.64	120.30	112.30
47	BC	502	GTP	C2-N3-C4	4.64	120.30	112.30
47	WE	501	GTP	C2-N3-C4	4.64	120.30	112.30
47	OF	501	GTP	C2-N3-C4	4.64	120.30	112.30
47	LC	501	GTP	C2-N3-C4	4.64	120.29	112.30
47	GM	501	GTP	C2-N3-C4	4.64	120.29	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	PD	501	GTP	C2-N3-C4	4.64	120.29	112.30
47	KM	501	GTP	C2-N3-C4	4.64	120.29	112.30
49	DD	501	GDP	N9-C4-N3	4.64	135.22	125.95
47	WG	501	GTP	C2-N3-C4	4.63	120.28	112.30
49	AN	501	GDP	N9-C4-N3	4.63	135.22	125.95
47	RG	501	GTP	C2-N3-C4	4.63	120.28	112.30
47	BK	501	GTP	C2-N3-C4	4.63	120.28	112.30
47	LE	501	GTP	C2-N3-C4	4.63	120.27	112.30
47	NG	501	GTP	C2-N3-C4	4.63	120.27	112.30
47	DC	501	GTP	C2-N3-C4	4.63	120.27	112.30
47	DG	501	GTP	C2-N3-C4	4.63	120.27	112.30
47	QK	501	GTP	C2-N3-C4	4.63	120.27	112.30
47	KI	501	GTP	C2-N3-C4	4.63	120.27	112.30
49	VN	501	GDP	N9-C4-N3	4.63	135.20	125.95
49	WJ	501	GDP	N9-C4-N3	4.63	135.20	125.95
47	CM	501	GTP	C2-N3-C4	4.63	120.27	112.30
47	KK	501	GTP	C2-N3-C4	4.63	120.27	112.30
47	EA	501	GTP	C2-N3-C4	4.62	120.26	112.30
47	QA	501	GTP	C2-N3-C4	4.62	120.26	112.30
47	UG	501	GTP	C2-N3-C4	4.62	120.26	112.30
47	JE	501	GTP	C2-N3-C4	4.62	120.26	112.30
47	GC	501	GTP	C2-N3-C4	4.62	120.26	112.30
47	IM	501	GTP	C2-N3-C4	4.62	120.26	112.30
47	ME	501	GTP	C2-N3-C4	4.62	120.26	112.30
49	WF	501	GDP	N9-C4-N3	4.62	135.19	125.95
47	TA	501	GTP	C2-N3-C4	4.62	120.26	112.30
47	DK	501	GTP	C2-N3-C4	4.62	120.26	112.30
47	EC	501	GTP	C2-N3-C4	4.62	120.26	112.30
49	PD	502	GDP	N9-C4-N3	4.62	135.19	125.95
49	BH	501	GDP	N9-C4-N3	4.62	135.19	125.95
47	GK	501	GTP	C2-N3-C4	4.62	120.25	112.30
47	KG	501	GTP	C2-N3-C4	4.62	120.25	112.30
47	DA	501	GTP	C2-N3-C4	4.62	120.25	112.30
47	JG	501	GTP	C2-N3-C4	4.62	120.25	112.30
47	OG	501	GTP	C2-N3-C4	4.61	120.25	112.30
47	RI	501	GTP	C2-N3-C4	4.61	120.25	112.30
47	TE	501	GTP	C2-N3-C4	4.61	120.25	112.30
47	DM	501	GTP	C2-N3-C4	4.61	120.25	112.30
49	PB	501	GDP	N9-C4-N3	4.61	135.18	125.95
49	GN	502	GDP	N9-C4-N3	4.61	135.18	125.95
47	OM	501	GTP	C2-N3-C4	4.61	120.25	112.30
47	EK	501	GTP	C2-N3-C4	4.61	120.24	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	JC	501	GTP	C2-N3-C4	4.61	120.24	112.30
47	AM	501	GTP	C2-N3-C4	4.61	120.24	112.30
47	HM	501	GTP	C2-N3-C4	4.61	120.24	112.30
49	UB	501	GDP	N9-C4-N3	4.61	135.16	125.95
49	IN	501	GDP	N9-C4-N3	4.61	135.16	125.95
49	DB	501	GDP	N9-C4-N3	4.61	135.16	125.95
47	KC	501	GTP	C2-N3-C4	4.61	120.23	112.30
47	NA	501	GTP	C2-N3-C4	4.61	120.23	112.30
47	LK	501	GTP	C2-N3-C4	4.61	120.23	112.30
49	GH	501	GDP	N9-C4-N3	4.61	135.16	125.95
47	UA	501	GTP	C2-N3-C4	4.60	120.23	112.30
47	OI	501	GTP	C2-N3-C4	4.60	120.23	112.30
47	VM	501	GTP	C2-N3-C4	4.60	120.23	112.30
49	HB	501	GDP	N9-C4-N3	4.60	135.16	125.95
47	AK	501	GTP	C2-N3-C4	4.60	120.23	112.30
49	TN	501	GDP	N9-C4-N3	4.60	135.16	125.95
47	SA	501	GTP	C2-N3-C4	4.60	120.22	112.30
49	PL	501	GDP	N9-C4-N3	4.60	135.15	125.95
47	IA	501	GTP	C2-N3-C4	4.60	120.22	112.30
49	RN	501	GDP	N9-C4-N3	4.60	135.15	125.95
49	SD	501	GDP	N9-C4-N3	4.60	135.15	125.95
47	RE	501	GTP	C2-N3-C4	4.60	120.22	112.30
47	TK	501	GTP	C2-N3-C4	4.60	120.22	112.30
49	VB	501	GDP	N9-C4-N3	4.60	135.14	125.95
47	EG	501	GTP	C2-N3-C4	4.60	120.22	112.30
47	NK	501	GTP	C2-N3-C4	4.59	120.21	112.30
49	DN	501	GDP	N9-C4-N3	4.59	135.14	125.95
47	SG	501	GTP	C2-N3-C4	4.59	120.21	112.30
47	GG	501	GTP	C2-N3-C4	4.59	120.21	112.30
47	EI	501	GTP	C2-N3-C4	4.59	120.21	112.30
47	UC	501	GTP	C2-N3-C4	4.59	120.21	112.30
47	RA	501	GTP	C2-N3-C4	4.59	120.21	112.30
49	TF	501	GDP	N9-C4-N3	4.59	135.13	125.95
49	VH	501	GDP	N9-C4-N3	4.59	135.13	125.95
49	FN	501	GDP	N9-C4-N3	4.59	135.13	125.95
49	UF	501	GDP	N9-C4-N3	4.59	135.13	125.95
49	CN	501	GDP	N9-C4-N3	4.59	135.13	125.95
49	FB	501	GDP	N9-C4-N3	4.59	135.13	125.95
47	JA	501	GTP	C2-N3-C4	4.59	120.20	112.30
47	LM	501	GTP	C2-N3-C4	4.59	120.20	112.30
47	QI	501	GTP	C2-N3-C4	4.59	120.20	112.30
49	FL	502	GDP	N9-C4-N3	4.59	135.12	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
49	EB	501	GDP	N9-C4-N3	4.58	135.12	125.95
47	FE	501	GTP	C2-N3-C4	4.58	120.19	112.30
47	LG	501	GTP	C2-N3-C4	4.58	120.19	112.30
49	GJ	501	GDP	N9-C4-N3	4.58	135.12	125.95
47	JI	501	GTP	C2-N3-C4	4.58	120.19	112.30
49	SN	501	GDP	N9-C4-N3	4.58	135.12	125.95
49	BJ	501	GDP	N9-C4-N3	4.58	135.11	125.95
47	WK	501	GTP	C2-N3-C4	4.58	120.19	112.30
47	NE	501	GTP	C2-N3-C4	4.58	120.19	112.30
47	RC	501	GTP	C2-N3-C4	4.58	120.19	112.30
49	FD	501	GDP	N9-C4-N3	4.58	135.11	125.95
47	FC	501	GTP	C2-N3-C4	4.58	120.19	112.30
47	TM	501	GTP	C2-N3-C4	4.58	120.19	112.30
49	CB	501	GDP	N9-C4-N3	4.58	135.10	125.95
47	IG	501	GTP	C2-N3-C4	4.58	120.18	112.30
47	PA	501	GTP	C2-N3-C4	4.58	120.18	112.30
49	GB	502	GDP	N9-C4-N3	4.57	135.10	125.95
49	OJ	501	GDP	N9-C4-N3	4.57	135.10	125.95
47	NM	501	GTP	C2-N3-C4	4.57	120.18	112.30
49	HD	501	GDP	N9-C4-N3	4.57	135.09	125.95
47	LA	501	GTP	C2-N3-C4	4.57	120.17	112.30
49	RL	501	GDP	N9-C4-N3	4.57	135.08	125.95
49	UH	501	GDP	N9-C4-N3	4.57	135.08	125.95
49	VF	501	GDP	N9-C4-N3	4.57	135.08	125.95
47	KA	501	GTP	C2-N3-C4	4.57	120.16	112.30
47	SE	501	GTP	C2-N3-C4	4.57	120.16	112.30
47	SI	501	GTP	C2-N3-C4	4.57	120.16	112.30
47	OK	501	GTP	C2-N3-C4	4.56	120.16	112.30
49	UJ	501	GDP	N9-C4-N3	4.56	135.08	125.95
47	FG	501	GTP	C2-N3-C4	4.56	120.16	112.30
47	VA	501	GTP	C2-N3-C4	4.56	120.16	112.30
49	AF	501	GDP	N9-C4-N3	4.56	135.08	125.95
49	SH	501	GDP	N9-C4-N3	4.56	135.08	125.95
49	PH	501	GDP	N9-C4-N3	4.56	135.07	125.95
49	WD	501	GDP	N9-C4-N3	4.56	135.07	125.95
49	BF	501	GDP	N9-C4-N3	4.56	135.07	125.95
49	SF	501	GDP	N9-C4-N3	4.56	135.07	125.95
47	VG	501	GTP	C2-N3-C4	4.56	120.15	112.30
49	QN	501	GDP	N9-C4-N3	4.56	135.07	125.95
49	AH	501	GDP	N9-C4-N3	4.56	135.07	125.95
49	NJ	501	GDP	N9-C4-N3	4.56	135.06	125.95
47	TI	501	GTP	C2-N3-C4	4.56	120.15	112.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
49	ID	501	GDP	N9-C4-N3	4.55	135.06	125.95
49	CJ	501	GDP	N9-C4-N3	4.55	135.06	125.95
47	DE	501	GTP	C2-N3-C4	4.55	120.14	112.30
49	UD	501	GDP	N9-C4-N3	4.55	135.05	125.95
47	SK	501	GTP	C2-N3-C4	4.55	120.14	112.30
49	BB	501	GDP	N9-C4-N3	4.55	135.05	125.95
49	TH	501	GDP	N9-C4-N3	4.55	135.05	125.95
49	WB	501	GDP	N9-C4-N3	4.55	135.05	125.95
47	VI	501	GTP	C2-N3-C4	4.55	120.13	112.30
49	DL	501	GDP	N9-C4-N3	4.55	135.05	125.95
47	TG	501	GTP	C2-N3-C4	4.55	120.13	112.30
49	DH	501	GDP	N9-C4-N3	4.54	135.04	125.95
49	CD	501	GDP	N9-C4-N3	4.54	135.04	125.95
49	ON	501	GDP	N9-C4-N3	4.54	135.03	125.95
47	EE	501	GTP	C2-N3-C4	4.54	120.12	112.30
49	HN	501	GDP	N9-C4-N3	4.54	135.03	125.95
49	OF	502	GDP	N9-C4-N3	4.54	135.03	125.95
49	GF	501	GDP	N9-C4-N3	4.54	135.02	125.95
49	QF	501	GDP	N9-C4-N3	4.53	135.02	125.95
49	QL	501	GDP	N9-C4-N3	4.53	135.02	125.95
49	AL	501	GDP	N9-C4-N3	4.53	135.01	125.95
47	LI	501	GTP	C2-N3-C4	4.53	120.10	112.30
49	TD	501	GDP	N9-C4-N3	4.53	135.01	125.95
49	IF	501	GDP	N9-C4-N3	4.53	135.00	125.95
49	VL	501	GDP	N9-C4-N3	4.53	135.00	125.95
49	GL	502	GDP	N9-C4-N3	4.52	135.00	125.95
49	LD	501	GDP	N9-C4-N3	4.52	134.99	125.95
49	HF	501	GDP	N9-C4-N3	4.52	134.99	125.95
49	RH	501	GDP	N9-C4-N3	4.52	134.99	125.95
49	MD	501	GDP	N9-C4-N3	4.52	134.99	125.95
49	MF	501	GDP	N9-C4-N3	4.52	134.99	125.95
49	NF	501	GDP	N9-C4-N3	4.52	134.98	125.95
49	TJ	501	GDP	N9-C4-N3	4.51	134.98	125.95
49	BL	501	GDP	N9-C4-N3	4.51	134.97	125.95
47	SM	501	GTP	C2-N3-C4	4.51	120.07	112.30
49	LJ	501	GDP	N9-C4-N3	4.51	134.97	125.95
49	MH	501	GDP	N9-C4-N3	4.51	134.97	125.95
49	HH	501	GDP	N9-C4-N3	4.51	134.97	125.95
49	UN	501	GDP	N9-C4-N3	4.51	134.96	125.95
47	FK	501	GTP	C2-N3-C4	4.50	120.05	112.30
49	QH	501	GDP	N9-C4-N3	4.50	134.95	125.95
49	RD	501	GDP	N9-C4-N3	4.50	134.94	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
49	OB	501	GDP	N9-C4-N3	4.49	134.93	125.95
49	ND	502	GDP	N9-C4-N3	4.49	134.93	125.95
47	SC	501	GTP	C2-N3-C4	4.49	120.03	112.30
49	GD	501	GDP	N9-C4-N3	4.49	134.93	125.95
49	OL	501	GDP	N9-C4-N3	4.49	134.93	125.95
49	VJ	501	GDP	N9-C4-N3	4.49	134.92	125.95
49	NB	501	GDP	N9-C4-N3	4.48	134.92	125.95
49	PF	501	GDP	N9-C4-N3	4.48	134.92	125.95
49	IJ	501	GDP	N9-C4-N3	4.48	134.91	125.95
49	DF	501	GDP	N9-C4-N3	4.48	134.91	125.95
49	LB	501	GDP	N9-C4-N3	4.48	134.91	125.95
49	EH	501	GDP	N9-C4-N3	4.48	134.90	125.95
49	JN	501	GDP	N9-C4-N3	4.48	134.90	125.95
49	JF	501	GDP	N9-C4-N3	4.47	134.89	125.95
49	FJ	501	GDP	N9-C4-N3	4.46	134.88	125.95
49	MB	501	GDP	N9-C4-N3	4.46	134.88	125.95
49	NH	501	GDP	N9-C4-N3	4.46	134.88	125.95
49	EL	501	GDP	N9-C4-N3	4.46	134.87	125.95
49	TL	501	GDP	N9-C4-N3	4.46	134.87	125.95
49	CL	501	GDP	N9-C4-N3	4.46	134.87	125.95
49	HJ	501	GDP	N9-C4-N3	4.45	134.86	125.95
49	LL	501	GDP	N9-C4-N3	4.45	134.86	125.95
49	LH	501	GDP	N9-C4-N3	4.45	134.85	125.95
49	IB	501	GDP	N9-C4-N3	4.45	134.85	125.95
49	EF	501	GDP	N9-C4-N3	4.45	134.84	125.95
49	ML	501	GDP	N9-C4-N3	4.45	134.84	125.95
49	MN	501	GDP	N9-C4-N3	4.45	134.84	125.95
49	OD	501	GDP	N9-C4-N3	4.44	134.84	125.95
49	BD	501	GDP	N9-C4-N3	4.44	134.82	125.95
49	NN	501	GDP	N9-C4-N3	4.43	134.82	125.95
49	MJ	501	GDP	N9-C4-N3	4.43	134.81	125.95
49	HL	501	GDP	N9-C4-N3	4.43	134.81	125.95
49	FH	501	GDP	N9-C4-N3	4.42	134.79	125.95
49	WH	501	GDP	N9-C4-N3	4.42	134.79	125.95
49	NL	501	GDP	N9-C4-N3	4.42	134.78	125.95
49	IH	501	GDP	N9-C4-N3	4.41	134.77	125.95
49	FF	501	GDP	N9-C4-N3	4.40	134.76	125.95
49	JD	501	GDP	N9-C4-N3	4.40	134.76	125.95
49	IL	501	GDP	N9-C4-N3	4.39	134.74	125.95
49	LF	501	GDP	N9-C4-N3	4.39	134.74	125.95
49	JJ	501	GDP	N9-C4-N3	4.39	134.72	125.95
49	JB	501	GDP	N9-C4-N3	4.38	134.72	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
49	WL	501	GDP	N9-C4-N3	4.38	134.71	125.95
49	LN	501	GDP	N9-C4-N3	4.38	134.70	125.95
49	PN	502	GDP	N9-C4-N3	4.37	134.70	125.95
49	KL	501	GDP	N9-C4-N3	4.36	134.67	125.95
49	KB	501	GDP	N9-C4-N3	4.35	134.66	125.95
49	CF	501	GDP	N9-C4-N3	4.35	134.66	125.95
49	SJ	501	GDP	N9-C4-N3	4.35	134.66	125.95
49	JL	501	GDP	N9-C4-N3	4.35	134.65	125.95
49	KD	501	GDP	N9-C4-N3	4.33	134.62	125.95
49	UL	501	GDP	N9-C4-N3	4.33	134.61	125.95
49	PJ	501	GDP	N9-C4-N3	4.30	134.54	125.95
49	KN	501	GDP	N9-C4-N3	4.28	134.51	125.95
49	JH	501	GDP	N9-C4-N3	4.26	134.47	125.95
49	KF	501	GDP	N9-C4-N3	4.24	134.44	125.95
49	KJ	501	GDP	N9-C4-N3	4.15	134.24	125.95
47	QI	501	GTP	N9-C4-N3	3.59	133.12	125.95
47	ME	501	GTP	N9-C4-N3	3.57	133.09	125.95
49	KJ	501	GDP	C6-C5-N7	3.57	136.78	130.29
47	RC	501	GTP	N9-C4-N3	3.55	133.04	125.95
47	SM	501	GTP	N9-C4-N3	3.49	132.93	125.95
47	RG	501	GTP	N9-C4-N3	3.48	132.92	125.95
47	QG	501	GTP	N9-C4-N3	3.47	132.90	125.95
47	IE	501	GTP	N9-C4-N3	3.47	132.89	125.95
47	LK	501	GTP	N9-C4-N3	3.46	132.87	125.95
47	VE	501	GTP	N9-C4-N3	3.45	132.85	125.95
47	RK	501	GTP	N9-C4-N3	3.45	132.85	125.95
49	KB	501	GDP	C6-C5-N7	3.44	136.55	130.29
47	DG	501	GTP	N9-C4-N3	3.44	132.82	125.95
49	JH	501	GDP	C6-C5-N7	3.44	136.54	130.29
47	BM	501	GTP	N9-C4-N3	3.43	132.82	125.95
47	QE	501	GTP	N9-C4-N3	3.43	132.82	125.95
47	UM	501	GTP	N9-C4-N3	3.43	132.81	125.95
49	PJ	501	GDP	C6-C5-N7	3.43	136.52	130.29
49	KF	501	GDP	C6-C5-N7	3.42	136.52	130.29
47	CK	501	GTP	N9-C4-N3	3.42	132.79	125.95
47	RE	501	GTP	N9-C4-N3	3.42	132.78	125.95
47	DI	501	GTP	N9-C4-N3	3.41	132.76	125.95
47	FM	501	GTP	N9-C4-N3	3.40	132.76	125.95
47	IK	501	GTP	N9-C4-N3	3.40	132.76	125.95
47	QC	501	GTP	N9-C4-N3	3.40	132.76	125.95
47	BE	501	GTP	N9-C4-N3	3.40	132.75	125.95
47	DA	501	GTP	N9-C4-N3	3.40	132.75	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
49	WH	501	GDP	C6-C5-N7	3.40	136.47	130.29
49	PN	502	GDP	C6-C5-N7	3.39	136.47	130.29
47	BI	501	GTP	N9-C4-N3	3.39	132.74	125.95
49	RB	501	GDP	C6-C5-N7	3.39	136.46	130.29
47	PG	501	GTP	N9-C4-N3	3.39	132.73	125.95
47	FA	501	GTP	N9-C4-N3	3.38	132.72	125.95
47	IC	501	GTP	N9-C4-N3	3.38	132.72	125.95
49	UL	501	GDP	C6-C5-N7	3.38	136.45	130.29
47	HA	501	GTP	N9-C4-N3	3.38	132.72	125.95
47	GG	501	GTP	N9-C4-N3	3.38	132.71	125.95
47	HM	501	GTP	N9-C4-N3	3.38	132.71	125.95
47	GC	501	GTP	N9-C4-N3	3.37	132.69	125.95
47	QA	501	GTP	N9-C4-N3	3.37	132.69	125.95
47	NA	501	GTP	N9-C4-N3	3.37	132.68	125.95
47	OM	501	GTP	N9-C4-N3	3.37	132.68	125.95
47	JG	501	GTP	N9-C4-N3	3.36	132.67	125.95
47	BG	501	GTP	N9-C4-N3	3.36	132.67	125.95
47	EA	501	GTP	N9-C4-N3	3.36	132.66	125.95
47	QK	501	GTP	N9-C4-N3	3.36	132.66	125.95
47	PD	501	GTP	N9-C4-N3	3.35	132.66	125.95
47	UG	501	GTP	N9-C4-N3	3.35	132.66	125.95
47	RI	501	GTP	N9-C4-N3	3.35	132.66	125.95
47	SA	501	GTP	N9-C4-N3	3.35	132.66	125.95
47	TM	501	GTP	N9-C4-N3	3.35	132.66	125.95
47	UA	501	GTP	N9-C4-N3	3.35	132.66	125.95
47	VK	501	GTP	N9-C4-N3	3.35	132.65	125.95
49	KD	501	GDP	C6-C5-N7	3.35	136.38	130.29
47	PE	501	GTP	N9-C4-N3	3.35	132.64	125.95
47	MC	501	GTP	N9-C4-N3	3.34	132.64	125.95
47	CA	501	GTP	N9-C4-N3	3.34	132.64	125.95
47	DE	501	GTP	N9-C4-N3	3.34	132.63	125.95
49	KN	501	GDP	C6-C5-N7	3.34	136.37	130.29
47	PA	501	GTP	N9-C4-N3	3.34	132.63	125.95
47	UI	501	GTP	N9-C4-N3	3.34	132.63	125.95
47	MA	501	GTP	N9-C4-N3	3.34	132.63	125.95
47	WI	501	GTP	N9-C4-N3	3.33	132.62	125.95
47	WC	501	GTP	N9-C4-N3	3.33	132.62	125.95
47	AC	501	GTP	N9-C4-N3	3.33	132.62	125.95
47	KA	501	GTP	N9-C4-N3	3.33	132.62	125.95
47	WM	501	GTP	N9-C4-N3	3.33	132.62	125.95
47	JK	501	GTP	N9-C4-N3	3.33	132.61	125.95
47	TA	501	GTP	N9-C4-N3	3.33	132.61	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	AK	501	GTP	N9-C4-N3	3.33	132.61	125.95
47	CM	501	GTP	N9-C4-N3	3.33	132.60	125.95
47	IA	501	GTP	N9-C4-N3	3.33	132.60	125.95
49	JD	501	GDP	C6-C5-N7	3.32	136.34	130.29
47	EM	501	GTP	N9-C4-N3	3.32	132.60	125.95
47	DC	501	GTP	N9-C4-N3	3.32	132.59	125.95
47	HI	501	GTP	N9-C4-N3	3.32	132.59	125.95
49	IL	501	GDP	C6-C5-N7	3.32	136.33	130.29
47	PK	501	GTP	N9-C4-N3	3.32	132.59	125.95
47	AA	501	GTP	N9-C4-N3	3.32	132.59	125.95
47	QM	501	GTP	N9-C4-N3	3.32	132.59	125.95
49	NB	501	GDP	C6-C5-N7	3.32	136.33	130.29
47	NI	501	GTP	N9-C4-N3	3.32	132.58	125.95
49	JL	501	GDP	C6-C5-N7	3.31	136.32	130.29
47	AG	501	GTP	N9-C4-N3	3.31	132.58	125.95
49	NL	501	GDP	C6-C5-N7	3.31	136.32	130.29
47	AI	501	GTP	N9-C4-N3	3.31	132.57	125.95
47	VM	501	GTP	N9-C4-N3	3.31	132.57	125.95
49	HL	501	GDP	C6-C5-N7	3.31	136.31	130.29
49	LN	501	GDP	C6-C5-N7	3.31	136.31	130.29
47	GA	501	GTP	N9-C4-N3	3.31	132.57	125.95
47	NG	501	GTP	N9-C4-N3	3.31	132.57	125.95
47	LG	501	GTP	N9-C4-N3	3.31	132.56	125.95
47	BC	502	GTP	N9-C4-N3	3.31	132.56	125.95
47	AE	501	GTP	N9-C4-N3	3.30	132.56	125.95
47	PM	501	GTP	N9-C4-N3	3.30	132.56	125.95
47	CI	501	GTP	N9-C4-N3	3.30	132.56	125.95
49	CF	501	GDP	C6-C5-N7	3.30	136.30	130.29
49	JJ	501	GDP	C6-C5-N7	3.30	136.30	130.29
49	CJ	501	GDP	C6-C5-N7	3.30	136.29	130.29
49	CL	501	GDP	C6-C5-N7	3.30	136.29	130.29
47	UE	501	GTP	N9-C4-N3	3.30	132.55	125.95
47	KG	501	GTP	N9-C4-N3	3.30	132.54	125.95
49	ND	502	GDP	C6-C5-N7	3.30	136.29	130.29
47	FC	501	GTP	N9-C4-N3	3.29	132.54	125.95
47	DK	501	GTP	N9-C4-N3	3.29	132.53	125.95
47	JM	501	GTP	N9-C4-N3	3.29	132.53	125.95
47	PI	501	GTP	N9-C4-N3	3.29	132.53	125.95
49	NH	501	GDP	C6-C5-N7	3.29	136.28	130.29
47	GM	501	GTP	N9-C4-N3	3.29	132.53	125.95
49	DF	501	GDP	C6-C5-N7	3.29	136.27	130.29
47	LE	501	GTP	N9-C4-N3	3.29	132.52	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	WG	501	GTP	N9-C4-N3	3.29	132.52	125.95
47	LA	501	GTP	N9-C4-N3	3.28	132.52	125.95
47	NM	501	GTP	N9-C4-N3	3.28	132.51	125.95
47	BK	501	GTP	N9-C4-N3	3.28	132.51	125.95
47	GE	501	GTP	N9-C4-N3	3.28	132.51	125.95
47	HK	501	GTP	N9-C4-N3	3.28	132.51	125.95
47	NE	501	GTP	N9-C4-N3	3.28	132.51	125.95
47	AM	501	GTP	N9-C4-N3	3.28	132.51	125.95
47	NK	501	GTP	N9-C4-N3	3.27	132.50	125.95
49	TL	501	GDP	C6-C5-N7	3.27	136.25	130.29
49	LB	501	GDP	C6-C5-N7	3.27	136.25	130.29
49	OD	501	GDP	C6-C5-N7	3.27	136.25	130.29
47	RA	501	GTP	N9-C4-N3	3.27	132.49	125.95
49	OL	501	GDP	C6-C5-N7	3.27	136.24	130.29
49	WL	501	GDP	C6-C5-N7	3.27	136.23	130.29
49	BL	501	GDP	C6-C5-N7	3.26	136.23	130.29
49	EF	501	GDP	C6-C5-N7	3.26	136.23	130.29
49	ID	501	GDP	C6-C5-N7	3.26	136.23	130.29
47	LC	501	GTP	N9-C4-N3	3.26	132.48	125.95
47	UK	501	GTP	N9-C4-N3	3.26	132.48	125.95
49	LL	501	GDP	C6-C5-N7	3.26	136.22	130.29
49	HH	501	GDP	C6-C5-N7	3.26	136.22	130.29
49	FJ	501	GDP	C6-C5-N7	3.26	136.22	130.29
49	UN	501	GDP	C6-C5-N7	3.26	136.22	130.29
49	GD	501	GDP	C6-C5-N7	3.26	136.22	130.29
49	NN	501	GDP	C6-C5-N7	3.26	136.22	130.29
49	KL	501	GDP	C6-C5-N7	3.26	136.22	130.29
49	LF	501	GDP	C6-C5-N7	3.26	136.22	130.29
47	JA	501	GTP	N9-C4-N3	3.26	132.46	125.95
47	WA	501	GTP	N9-C4-N3	3.26	132.46	125.95
47	MG	501	GTP	N9-C4-N3	3.25	132.46	125.95
47	II	501	GTP	N9-C4-N3	3.25	132.46	125.95
47	DM	501	GTP	N9-C4-N3	3.25	132.45	125.95
49	IB	501	GDP	C6-C5-N7	3.25	136.21	130.29
47	HG	501	GTP	N9-C4-N3	3.25	132.45	125.95
47	KC	501	GTP	N9-C4-N3	3.25	132.45	125.95
47	TC	501	GTP	N9-C4-N3	3.25	132.45	125.95
49	EH	501	GDP	C6-C5-N7	3.25	136.20	130.29
47	KM	501	GTP	N9-C4-N3	3.25	132.45	125.95
47	JE	501	GTP	N9-C4-N3	3.25	132.45	125.95
49	HJ	501	GDP	C6-C5-N7	3.24	136.19	130.29
47	BA	501	GTP	N9-C4-N3	3.24	132.44	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	EE	501	GTP	N9-C4-N3	3.24	132.44	125.95
49	PF	501	GDP	C6-C5-N7	3.24	136.19	130.29
49	ON	501	GDP	C6-C5-N7	3.24	136.19	130.29
47	KE	501	GTP	N9-C4-N3	3.24	132.43	125.95
49	DH	501	GDP	C6-C5-N7	3.24	136.18	130.29
49	WB	501	GDP	C6-C5-N7	3.24	136.18	130.29
47	OA	501	GTP	N9-C4-N3	3.24	132.43	125.95
49	MD	501	GDP	C6-C5-N7	3.24	136.18	130.29
49	JB	501	GDP	C6-C5-N7	3.24	136.18	130.29
47	SI	501	GTP	N9-C4-N3	3.24	132.42	125.95
47	EG	501	GTP	N9-C4-N3	3.23	132.42	125.95
47	HE	501	GTP	N9-C4-N3	3.23	132.42	125.95
49	JF	501	GDP	C6-C5-N7	3.23	136.18	130.29
47	JI	501	GTP	N9-C4-N3	3.23	132.42	125.95
49	LD	501	GDP	C6-C5-N7	3.23	136.18	130.29
47	LI	501	GTP	N9-C4-N3	3.23	132.42	125.95
47	CE	501	GTP	N9-C4-N3	3.23	132.42	125.95
49	HN	501	GDP	C6-C5-N7	3.23	136.17	130.29
49	VJ	501	GDP	C6-C5-N7	3.23	136.17	130.29
47	IG	501	GTP	N9-C4-N3	3.23	132.41	125.95
49	DL	501	GDP	C6-C5-N7	3.23	136.16	130.29
47	GK	501	GTP	N9-C4-N3	3.23	132.41	125.95
49	IH	501	GDP	C6-C5-N7	3.23	136.16	130.29
49	CN	501	GDP	C6-C5-N7	3.22	136.16	130.29
49	MB	501	GDP	C6-C5-N7	3.22	136.16	130.29
49	EL	501	GDP	C6-C5-N7	3.22	136.16	130.29
49	JN	501	GDP	C6-C5-N7	3.22	136.15	130.29
47	OF	501	GTP	N9-C4-N3	3.22	132.39	125.95
49	MJ	501	GDP	C6-C5-N7	3.22	136.15	130.29
47	MM	501	GTP	N9-C4-N3	3.22	132.39	125.95
47	NC	501	GTP	N9-C4-N3	3.22	132.39	125.95
47	CC	501	GTP	N9-C4-N3	3.22	132.39	125.95
49	VL	501	GDP	C6-C5-N7	3.22	136.14	130.29
47	EC	501	GTP	N9-C4-N3	3.22	132.38	125.95
47	MI	501	GTP	N9-C4-N3	3.22	132.38	125.95
49	QF	501	GDP	C6-C5-N7	3.21	136.14	130.29
49	OF	502	GDP	C6-C5-N7	3.21	136.14	130.29
49	PH	501	GDP	C6-C5-N7	3.21	136.14	130.29
49	IJ	501	GDP	C6-C5-N7	3.21	136.14	130.29
49	CD	501	GDP	C6-C5-N7	3.21	136.13	130.29
49	BD	501	GDP	C6-C5-N7	3.21	136.13	130.29
49	OB	501	GDP	C6-C5-N7	3.21	136.13	130.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	IM	501	GTP	N9-C4-N3	3.21	132.37	125.95
49	FH	501	GDP	C6-C5-N7	3.21	136.13	130.29
47	VA	501	GTP	N9-C4-N3	3.21	132.37	125.95
49	BB	501	GDP	C6-C5-N7	3.21	136.13	130.29
49	BF	501	GDP	C6-C5-N7	3.21	136.13	130.29
47	KI	501	GTP	N9-C4-N3	3.21	132.37	125.95
47	OC	501	GTP	N9-C4-N3	3.21	132.37	125.95
49	UD	501	GDP	C6-C5-N7	3.21	136.12	130.29
49	HB	501	GDP	C6-C5-N7	3.20	136.12	130.29
47	EI	501	GTP	N9-C4-N3	3.20	132.36	125.95
49	AL	501	GDP	C6-C5-N7	3.20	136.12	130.29
49	FN	501	GDP	C6-C5-N7	3.20	136.12	130.29
49	EB	501	GDP	C6-C5-N7	3.20	136.12	130.29
47	UC	501	GTP	N9-C4-N3	3.20	132.36	125.95
49	PL	501	GDP	C6-C5-N7	3.20	136.12	130.29
49	LH	501	GDP	C6-C5-N7	3.20	136.11	130.29
47	LM	501	GTP	N9-C4-N3	3.20	132.35	125.95
47	HC	501	GTP	N9-C4-N3	3.20	132.35	125.95
49	RN	501	GDP	C6-C5-N7	3.20	136.11	130.29
49	VF	501	GDP	C6-C5-N7	3.20	136.11	130.29
49	BJ	501	GDP	C6-C5-N7	3.19	136.10	130.29
47	CG	501	GTP	N9-C4-N3	3.19	132.34	125.95
47	GI	501	GTP	N9-C4-N3	3.19	132.33	125.95
49	PB	501	GDP	C6-C5-N7	3.19	136.09	130.29
49	QH	501	GDP	C6-C5-N7	3.19	136.09	130.29
49	SJ	501	GDP	C6-C5-N7	3.19	136.09	130.29
49	GB	502	GDP	C6-C5-N7	3.19	136.09	130.29
47	OG	501	GTP	N9-C4-N3	3.19	132.33	125.95
47	VE	501	GTP	C2-N1-C6	-3.19	119.33	125.11
49	QN	501	GDP	C6-C5-N7	3.19	136.09	130.29
49	WD	501	GDP	C6-C5-N7	3.18	136.09	130.29
47	MK	501	GTP	N9-C4-N3	3.18	132.32	125.95
49	BN	501	GDP	C6-C5-N7	3.18	136.08	130.29
49	ML	501	GDP	C6-C5-N7	3.18	136.08	130.29
49	TN	501	GDP	C6-C5-N7	3.18	136.08	130.29
47	PK	501	GTP	C2-N1-C6	-3.18	119.34	125.11
49	SN	501	GDP	C6-C5-N7	3.18	136.07	130.29
49	QL	501	GDP	C6-C5-N7	3.18	136.07	130.29
49	VB	501	GDP	C6-C5-N7	3.18	136.07	130.29
49	IF	501	GDP	C6-C5-N7	3.18	136.07	130.29
49	MH	501	GDP	C6-C5-N7	3.18	136.07	130.29
49	TH	501	GDP	C6-C5-N7	3.18	136.07	130.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	VC	501	GTP	N9-C4-N3	3.18	132.30	125.95
49	RH	501	GDP	C6-C5-N7	3.18	136.07	130.29
47	FK	501	GTP	N9-C4-N3	3.17	132.30	125.95
49	FL	502	GDP	C6-C5-N7	3.17	136.06	130.29
49	NJ	501	GDP	C6-C5-N7	3.17	136.06	130.29
49	NF	501	GDP	C6-C5-N7	3.17	136.06	130.29
49	UH	501	GDP	C6-C5-N7	3.17	136.06	130.29
49	MN	501	GDP	C6-C5-N7	3.17	136.06	130.29
49	TJ	501	GDP	C6-C5-N7	3.17	136.06	130.29
47	OI	501	GTP	N9-C4-N3	3.17	132.29	125.95
49	UB	501	GDP	C6-C5-N7	3.17	136.06	130.29
47	HE	501	GTP	C2-N1-C6	-3.17	119.36	125.11
49	DB	501	GDP	C6-C5-N7	3.17	136.05	130.29
49	MF	501	GDP	C6-C5-N7	3.17	136.05	130.29
49	VH	501	GDP	C6-C5-N7	3.17	136.05	130.29
49	WN	501	GDP	C6-C5-N7	3.17	136.05	130.29
47	JC	501	GTP	N9-C4-N3	3.16	132.28	125.95
49	BH	501	GDP	C6-C5-N7	3.16	136.05	130.29
47	EK	501	GTP	N9-C4-N3	3.16	132.28	125.95
49	FB	501	GDP	C6-C5-N7	3.16	136.04	130.29
49	FF	501	GDP	C6-C5-N7	3.16	136.04	130.29
49	IN	501	GDP	C6-C5-N7	3.16	136.04	130.29
49	OJ	501	GDP	C6-C5-N7	3.16	136.04	130.29
49	GJ	501	GDP	C6-C5-N7	3.16	136.04	130.29
49	CH	501	GDP	C6-C5-N7	3.16	136.04	130.29
49	DN	501	GDP	C6-C5-N7	3.16	136.04	130.29
49	LJ	501	GDP	C6-C5-N7	3.16	136.04	130.29
49	SF	501	GDP	C6-C5-N7	3.16	136.03	130.29
49	AF	501	GDP	C6-C5-N7	3.16	136.03	130.29
49	GH	501	GDP	C6-C5-N7	3.16	136.03	130.29
47	QG	501	GTP	C2-N1-C6	-3.16	119.39	125.11
49	HD	501	GDP	C6-C5-N7	3.15	136.03	130.29
49	OH	501	GDP	C6-C5-N7	3.15	136.02	130.29
49	UJ	501	GDP	C6-C5-N7	3.15	136.02	130.29
47	HI	501	GTP	C2-N1-C6	-3.15	119.40	125.11
49	RD	501	GDP	C6-C5-N7	3.15	136.01	130.29
47	FE	501	GTP	N9-C4-N3	3.14	132.24	125.95
49	WF	501	GDP	C6-C5-N7	3.14	136.01	130.29
49	SD	501	GDP	C6-C5-N7	3.14	136.00	130.29
49	HF	501	GDP	C6-C5-N7	3.14	136.00	130.29
49	TB	501	GDP	C6-C5-N7	3.13	136.00	130.29
47	SC	501	GTP	N9-C4-N3	3.13	132.22	125.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
49	DJ	501	GDP	C6-C5-N7	3.13	135.99	130.29
47	BG	501	GTP	C2-N1-C6	-3.13	119.43	125.11
47	AC	501	GTP	C2-N1-C6	-3.13	119.43	125.11
47	VG	501	GTP	C2-N1-C6	-3.13	119.43	125.11
49	FD	501	GDP	C6-C5-N7	3.13	135.99	130.29
49	GL	502	GDP	C6-C5-N7	3.13	135.99	130.29
49	UF	501	GDP	C6-C5-N7	3.13	135.99	130.29
49	PD	502	GDP	C6-C5-N7	3.13	135.98	130.29
49	WJ	501	GDP	C6-C5-N7	3.13	135.98	130.29
47	PE	501	GTP	C2-N1-C6	-3.13	119.44	125.11
49	EN	501	GDP	C6-C5-N7	3.12	135.97	130.29
49	RL	501	GDP	C6-C5-N7	3.12	135.97	130.29
49	DD	501	GDP	C6-C5-N7	3.12	135.97	130.29
49	TD	501	GDP	C6-C5-N7	3.12	135.97	130.29
49	SH	501	GDP	C6-C5-N7	3.12	135.97	130.29
47	FG	501	GTP	N9-C4-N3	3.12	132.19	125.95
49	CB	501	GDP	C6-C5-N7	3.12	135.96	130.29
47	VG	501	GTP	N9-C4-N3	3.12	132.18	125.95
49	AN	501	GDP	C6-C5-N7	3.11	135.95	130.29
49	GN	502	GDP	C6-C5-N7	3.11	135.95	130.29
47	FI	501	GTP	N9-C4-N3	3.11	132.17	125.95
49	QJ	501	GDP	C6-C5-N7	3.11	135.95	130.29
47	VK	501	GTP	C2-N1-C6	-3.11	119.48	125.11
47	WC	501	GTP	C2-N1-C6	-3.11	119.48	125.11
49	AH	501	GDP	C6-C5-N7	3.10	135.94	130.29
47	VI	501	GTP	N9-C4-N3	3.10	132.16	125.95
47	AG	501	GTP	C2-N1-C6	-3.10	119.48	125.11
47	IK	501	GTP	C2-N1-C6	-3.10	119.48	125.11
47	SG	501	GTP	N9-C4-N3	3.10	132.16	125.95
47	WK	501	GTP	N9-C4-N3	3.10	132.15	125.95
47	UI	501	GTP	C2-N1-C6	-3.10	119.49	125.11
49	AD	501	GDP	C6-C5-N7	3.10	135.93	130.29
47	ME	501	GTP	C2-N1-C6	-3.10	119.49	125.11
49	GF	501	GDP	C6-C5-N7	3.10	135.93	130.29
47	WE	501	GTP	C2-N1-C6	-3.09	119.50	125.11
47	BC	502	GTP	C2-N1-C6	-3.09	119.50	125.11
47	HG	501	GTP	C2-N1-C6	-3.09	119.50	125.11
47	AI	501	GTP	C2-N1-C6	-3.09	119.50	125.11
47	DE	501	GTP	C2-N1-C6	-3.09	119.50	125.11
47	WI	501	GTP	C2-N1-C6	-3.09	119.51	125.11
49	KH	501	GDP	C6-C5-N7	3.09	135.91	130.29
47	LE	501	GTP	C2-N1-C6	-3.09	119.51	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	QK	501	GTP	C2-N1-C6	-3.09	119.52	125.11
47	AK	501	GTP	C2-N1-C6	-3.08	119.52	125.11
47	GG	501	GTP	C2-N1-C6	-3.08	119.52	125.11
47	GK	501	GTP	C2-N1-C6	-3.08	119.53	125.11
47	VC	501	GTP	C2-N1-C6	-3.08	119.53	125.11
49	QB	501	GDP	C6-C5-N7	3.07	135.88	130.29
47	MK	501	GTP	C2-N1-C6	-3.07	119.54	125.11
47	HA	501	GTP	C2-N1-C6	-3.07	119.54	125.11
47	TI	501	GTP	N9-C4-N3	3.07	132.10	125.95
47	SE	501	GTP	N9-C4-N3	3.07	132.10	125.95
47	FA	501	GTP	C2-N1-C6	-3.07	119.54	125.11
47	RC	501	GTP	C2-N1-C6	-3.07	119.54	125.11
49	QD	501	GDP	C6-C5-N7	3.07	135.88	130.29
47	LC	501	GTP	C2-N1-C6	-3.07	119.54	125.11
47	IE	501	GTP	C2-N1-C6	-3.07	119.55	125.11
47	HK	501	GTP	C2-N1-C6	-3.07	119.55	125.11
49	ED	501	GDP	C6-C5-N7	3.07	135.87	130.29
47	MI	501	GTP	C2-N1-C6	-3.07	119.55	125.11
47	WE	501	GTP	N9-C4-N3	3.07	132.08	125.95
47	GE	501	GTP	C2-N1-C6	-3.07	119.55	125.11
47	JG	501	GTP	C2-N1-C6	-3.07	119.55	125.11
47	AA	501	GTP	C2-N1-C6	-3.07	119.55	125.11
47	UE	501	GTP	C2-N1-C6	-3.06	119.55	125.11
49	TF	501	GDP	C6-C5-N7	3.06	135.86	130.29
47	GC	501	GTP	C2-N1-C6	-3.06	119.56	125.11
47	KK	501	GTP	N9-C4-N3	3.06	132.07	125.95
47	TC	501	GTP	C2-N1-C6	-3.06	119.56	125.11
47	RK	501	GTP	C2-N1-C6	-3.06	119.56	125.11
47	AE	501	GTP	C2-N1-C6	-3.06	119.56	125.11
47	OC	501	GTP	C2-N1-C6	-3.06	119.56	125.11
49	SB	501	GDP	C6-C5-N7	3.06	135.85	130.29
47	CK	501	GTP	C2-N1-C6	-3.06	119.57	125.11
47	CE	501	GTP	C2-N1-C6	-3.06	119.57	125.11
47	RE	501	GTP	C2-N1-C6	-3.06	119.57	125.11
47	LA	501	GTP	C2-N1-C6	-3.06	119.57	125.11
47	RI	501	GTP	C2-N1-C6	-3.06	119.57	125.11
47	PM	501	GTP	C2-N1-C6	-3.06	119.57	125.11
47	DI	501	GTP	C2-N1-C6	-3.05	119.57	125.11
47	BA	501	GTP	C2-N1-C6	-3.05	119.57	125.11
47	JK	501	GTP	C2-N1-C6	-3.05	119.57	125.11
47	LK	501	GTP	C2-N1-C6	-3.05	119.58	125.11
47	UM	501	GTP	C2-N1-C6	-3.05	119.58	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	DG	501	GTP	C2-N1-C6	-3.05	119.58	125.11
47	IC	501	GTP	C2-N1-C6	-3.05	119.58	125.11
47	IM	501	GTP	C2-N1-C6	-3.05	119.58	125.11
49	SL	501	GDP	C6-C5-N7	3.05	135.84	130.29
47	LG	501	GTP	C2-N1-C6	-3.05	119.59	125.11
49	VN	501	GDP	C6-C5-N7	3.05	135.83	130.29
47	KA	501	GTP	C2-N1-C6	-3.04	119.59	125.11
47	WG	501	GTP	C2-N1-C6	-3.04	119.59	125.11
47	BK	501	GTP	C2-N1-C6	-3.04	119.60	125.11
47	PI	501	GTP	C2-N1-C6	-3.04	119.60	125.11
47	JE	501	GTP	C2-N1-C6	-3.04	119.60	125.11
47	QC	501	GTP	C2-N1-C6	-3.04	119.60	125.11
47	QI	501	GTP	C2-N1-C6	-3.04	119.60	125.11
47	GI	501	GTP	C2-N1-C6	-3.04	119.60	125.11
47	AM	501	GTP	C2-N1-C6	-3.04	119.60	125.11
47	IA	501	GTP	C2-N1-C6	-3.04	119.60	125.11
47	VA	501	GTP	C2-N1-C6	-3.04	119.60	125.11
47	VI	501	GTP	C2-N1-C6	-3.04	119.60	125.11
47	HC	501	GTP	C2-N1-C6	-3.04	119.61	125.11
47	SK	501	GTP	N9-C4-N3	3.03	132.02	125.95
47	QE	501	GTP	C2-N1-C6	-3.03	119.61	125.11
47	KE	501	GTP	C2-N1-C6	-3.03	119.61	125.11
47	KI	501	GTP	C2-N1-C6	-3.03	119.61	125.11
47	BM	501	GTP	C2-N1-C6	-3.03	119.62	125.11
47	TE	501	GTP	N9-C4-N3	3.03	132.01	125.95
49	RF	501	GDP	C6-C5-N7	3.03	135.80	130.29
47	NK	501	GTP	C2-N1-C6	-3.03	119.62	125.11
47	IG	501	GTP	C2-N1-C6	-3.03	119.62	125.11
47	LI	501	GTP	C2-N1-C6	-3.03	119.62	125.11
47	NG	501	GTP	C2-N1-C6	-3.03	119.62	125.11
47	PD	501	GTP	C2-N1-C6	-3.03	119.62	125.11
47	RM	501	GTP	N9-C4-N3	3.03	132.01	125.95
47	PG	501	GTP	C2-N1-C6	-3.03	119.62	125.11
47	UK	501	GTP	C2-N1-C6	-3.03	119.62	125.11
47	UG	501	GTP	C2-N1-C6	-3.02	119.63	125.11
47	TG	501	GTP	N9-C4-N3	3.02	132.00	125.95
47	WA	501	GTP	C2-N1-C6	-3.02	119.63	125.11
47	BE	501	GTP	C2-N1-C6	-3.02	119.63	125.11
47	NI	501	GTP	C2-N1-C6	-3.02	119.63	125.11
47	CI	501	GTP	C2-N1-C6	-3.02	119.63	125.11
47	DK	501	GTP	C2-N1-C6	-3.02	119.63	125.11
47	MA	501	GTP	C2-N1-C6	-3.02	119.63	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	MM	501	GTP	C2-N1-C6	-3.02	119.64	125.11
47	JC	501	GTP	C2-N1-C6	-3.02	119.64	125.11
47	WM	501	GTP	C2-N1-C6	-3.02	119.64	125.11
47	CC	501	GTP	C2-N1-C6	-3.02	119.64	125.11
47	OF	501	GTP	C2-N1-C6	-3.02	119.64	125.11
47	FI	501	GTP	C2-N1-C6	-3.02	119.64	125.11
49	EJ	501	GDP	C6-C5-N7	3.02	135.78	130.29
47	MG	501	GTP	C2-N1-C6	-3.02	119.64	125.11
47	RG	501	GTP	C2-N1-C6	-3.01	119.64	125.11
47	FE	501	GTP	C2-N1-C6	-3.01	119.65	125.11
47	JA	501	GTP	C2-N1-C6	-3.01	119.65	125.11
47	QM	501	GTP	C2-N1-C6	-3.01	119.65	125.11
47	MC	501	GTP	C2-N1-C6	-3.01	119.65	125.11
47	UC	501	GTP	C2-N1-C6	-3.01	119.65	125.11
47	KC	501	GTP	C2-N1-C6	-3.01	119.66	125.11
47	WK	501	GTP	C2-N1-C6	-3.01	119.66	125.11
47	TK	501	GTP	N9-C4-N3	3.00	131.96	125.95
47	KM	501	GTP	C2-N1-C6	-3.00	119.66	125.11
47	CG	501	GTP	C2-N1-C6	-3.00	119.66	125.11
47	CM	501	GTP	C2-N1-C6	-3.00	119.66	125.11
47	BI	501	GTP	C2-N1-C6	-3.00	119.67	125.11
47	OM	501	GTP	C2-N1-C6	-3.00	119.67	125.11
47	DC	501	GTP	C2-N1-C6	-3.00	119.67	125.11
49	AJ	501	GDP	C6-C5-N7	2.99	135.74	130.29
47	KK	501	GTP	C2-N1-C6	-2.99	119.68	125.11
47	OG	501	GTP	C2-N1-C6	-2.99	119.69	125.11
47	OK	501	GTP	N9-C4-N3	2.99	131.93	125.95
47	LM	501	GTP	C2-N1-C6	-2.99	119.69	125.11
47	OK	501	GTP	C2-N1-C6	-2.99	119.69	125.11
47	FG	501	GTP	C2-N1-C6	-2.99	119.69	125.11
47	II	501	GTP	C2-N1-C6	-2.98	119.70	125.11
47	GA	501	GTP	C2-N1-C6	-2.98	119.70	125.11
47	JI	501	GTP	C2-N1-C6	-2.98	119.71	125.11
47	KG	501	GTP	C2-N1-C6	-2.98	119.71	125.11
47	CA	501	GTP	C2-N1-C6	-2.97	119.72	125.11
49	AB	501	GDP	C6-C5-N7	2.97	135.70	130.29
47	JM	501	GTP	C2-N1-C6	-2.97	119.72	125.11
47	OA	501	GTP	C2-N1-C6	-2.97	119.73	125.11
47	EI	501	GTP	C2-N1-C6	-2.97	119.73	125.11
47	EK	501	GTP	C2-N1-C6	-2.97	119.73	125.11
47	RA	501	GTP	C2-N1-C6	-2.96	119.74	125.11
47	FC	501	GTP	C2-N1-C6	-2.96	119.74	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	NE	501	GTP	C2-N1-C6	-2.96	119.75	125.11
47	NM	501	GTP	C2-N1-C6	-2.95	119.75	125.11
47	OI	501	GTP	C2-N1-C6	-2.95	119.76	125.11
47	FK	501	GTP	C2-N1-C6	-2.95	119.76	125.11
47	DM	501	GTP	C2-N1-C6	-2.95	119.76	125.11
47	PA	501	GTP	C2-N1-C6	-2.95	119.76	125.11
47	NC	501	GTP	C2-N1-C6	-2.95	119.76	125.11
47	SI	501	GTP	C2-N1-C6	-2.95	119.76	125.11
47	TK	501	GTP	C2-N1-C6	-2.95	119.77	125.11
49	VD	501	GDP	C6-C5-N7	2.95	135.65	130.29
47	EA	501	GTP	C2-N1-C6	-2.94	119.77	125.11
47	QA	501	GTP	C2-N1-C6	-2.94	119.78	125.11
47	NA	501	GTP	C2-N1-C6	-2.94	119.78	125.11
47	TA	501	GTP	C2-N1-C6	-2.94	119.79	125.11
47	SM	501	GTP	C2-N1-C6	-2.94	119.79	125.11
47	SA	501	GTP	C2-N1-C6	-2.93	119.79	125.11
47	EG	501	GTP	C2-N1-C6	-2.93	119.79	125.11
47	TG	501	GTP	C2-N1-C6	-2.93	119.79	125.11
47	TM	501	GTP	C2-N1-C6	-2.93	119.80	125.11
47	HM	501	GTP	C2-N1-C6	-2.93	119.80	125.11
47	TE	501	GTP	C2-N1-C6	-2.93	119.80	125.11
47	FM	501	GTP	C2-N1-C6	-2.93	119.80	125.11
47	SE	501	GTP	C2-N1-C6	-2.93	119.80	125.11
47	TI	501	GTP	C2-N1-C6	-2.93	119.80	125.11
47	SG	501	GTP	C2-N1-C6	-2.93	119.81	125.11
47	VM	501	GTP	C2-N1-C6	-2.92	119.81	125.11
47	UA	501	GTP	C2-N1-C6	-2.92	119.81	125.11
47	EC	501	GTP	C2-N1-C6	-2.92	119.82	125.11
47	DA	501	GTP	C2-N1-C6	-2.91	119.83	125.11
47	EE	501	GTP	C2-N1-C6	-2.91	119.83	125.11
47	EM	501	GTP	C2-N1-C6	-2.90	119.85	125.11
47	SK	501	GTP	C2-N1-C6	-2.90	119.86	125.11
47	GM	501	GTP	C2-N1-C6	-2.88	119.88	125.11
47	SC	501	GTP	C2-N1-C6	-2.88	119.89	125.11
47	RK	501	GTP	N9-C8-N7	-2.85	108.11	113.40
47	RE	501	GTP	N9-C8-N7	-2.84	108.14	113.40
47	QE	501	GTP	N9-C8-N7	-2.83	108.15	113.40
47	OF	501	GTP	N9-C8-N7	-2.81	108.18	113.40
47	RC	501	GTP	N9-C8-N7	-2.78	108.24	113.40
47	FC	501	GTP	N9-C8-N7	-2.78	108.25	113.40
47	QC	501	GTP	N9-C8-N7	-2.77	108.25	113.40
49	RJ	501	GDP	C6-C5-N7	2.77	135.33	130.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	RG	501	GTP	N9-C8-N7	-2.77	108.27	113.40
47	FA	501	GTP	N9-C8-N7	-2.76	108.28	113.40
47	OM	501	GTP	N9-C8-N7	-2.76	108.28	113.40
49	RB	501	GDP	C4-C5-N7	-2.76	106.30	110.67
47	NG	501	GTP	N9-C8-N7	-2.76	108.28	113.40
47	TK	501	GTP	N9-C8-N7	-2.76	108.29	113.40
47	VI	501	GTP	N9-C8-N7	-2.75	108.29	113.40
47	OI	501	GTP	N9-C8-N7	-2.75	108.30	113.40
47	RM	501	GTP	C2-N1-C6	-2.75	120.12	125.11
47	VG	501	GTP	N9-C8-N7	-2.75	108.31	113.40
47	QM	501	GTP	N9-C8-N7	-2.74	108.32	113.40
47	KE	501	GTP	N9-C8-N7	-2.73	108.33	113.40
47	AE	501	GTP	N9-C8-N7	-2.73	108.33	113.40
47	VA	501	GTP	N9-C8-N7	-2.73	108.33	113.40
47	OA	501	GTP	N9-C8-N7	-2.73	108.34	113.40
49	PJ	501	GDP	C4-C5-N7	-2.73	106.34	110.67
47	WE	501	GTP	N9-C8-N7	-2.73	108.34	113.40
47	PK	501	GTP	C5-C6-N1	2.73	120.19	113.25
47	MM	501	GTP	N9-C8-N7	-2.73	108.35	113.40
47	OC	501	GTP	N9-C8-N7	-2.72	108.36	113.40
47	QG	501	GTP	C5-C6-N1	2.72	120.17	113.25
47	RG	501	GTP	C8-N7-C5	2.71	109.09	104.26
47	EE	501	GTP	N9-C8-N7	-2.71	108.37	113.40
47	QC	501	GTP	C8-N7-C5	2.71	109.09	104.26
47	QE	501	GTP	C8-N7-C5	2.71	109.09	104.26
47	HG	501	GTP	N9-C8-N7	-2.71	108.37	113.40
47	VE	501	GTP	C5-C6-N1	2.71	120.15	113.25
47	NC	501	GTP	N9-C8-N7	-2.71	108.38	113.40
47	WG	501	GTP	N9-C8-N7	-2.71	108.38	113.40
47	FI	501	GTP	N9-C8-N7	-2.71	108.38	113.40
47	CG	501	GTP	N9-C8-N7	-2.70	108.39	113.40
47	KM	501	GTP	N9-C8-N7	-2.70	108.39	113.40
47	RK	501	GTP	C8-N7-C5	2.70	109.08	104.26
47	SK	501	GTP	N9-C8-N7	-2.70	108.39	113.40
47	OG	501	GTP	N9-C8-N7	-2.70	108.39	113.40
47	AI	501	GTP	N9-C8-N7	-2.69	108.41	113.40
47	MI	501	GTP	N9-C8-N7	-2.69	108.41	113.40
47	SG	501	GTP	N9-C8-N7	-2.69	108.41	113.40
47	RE	501	GTP	C8-N7-C5	2.69	109.05	104.26
47	VC	501	GTP	N9-C8-N7	-2.69	108.42	113.40
47	WA	501	GTP	N9-C8-N7	-2.69	108.42	113.40
49	KJ	501	GDP	C4-C5-N7	-2.69	106.41	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	SI	501	GTP	N9-C8-N7	-2.69	108.42	113.40
47	DE	501	GTP	N9-C8-N7	-2.68	108.42	113.40
47	QM	501	GTP	C8-N7-C5	2.68	109.04	104.26
47	EK	501	GTP	N9-C8-N7	-2.68	108.43	113.40
47	WC	501	GTP	N9-C8-N7	-2.68	108.44	113.40
47	FG	501	GTP	N9-C8-N7	-2.67	108.44	113.40
47	WI	501	GTP	N9-C8-N7	-2.67	108.44	113.40
47	AM	501	GTP	N9-C8-N7	-2.67	108.45	113.40
47	FA	501	GTP	C8-N7-C5	2.67	109.01	104.26
49	ID	501	GDP	C4-C5-N7	-2.67	106.44	110.67
47	PI	501	GTP	N9-C8-N7	-2.67	108.45	113.40
47	SC	501	GTP	N9-C8-N7	-2.67	108.46	113.40
49	PN	502	GDP	C4-C5-N7	-2.67	106.45	110.67
47	BK	501	GTP	N9-C8-N7	-2.67	108.46	113.40
47	MK	501	GTP	N9-C8-N7	-2.66	108.46	113.40
47	MA	501	GTP	N9-C8-N7	-2.66	108.47	113.40
47	AA	501	GTP	N9-C8-N7	-2.66	108.47	113.40
47	HC	501	GTP	N9-C8-N7	-2.66	108.47	113.40
47	UK	501	GTP	N9-C8-N7	-2.66	108.47	113.40
49	IL	501	GDP	C4-C5-N7	-2.66	106.46	110.67
47	FC	501	GTP	C8-N7-C5	2.66	108.99	104.26
47	EC	501	GTP	N9-C8-N7	-2.65	108.48	113.40
49	KF	501	GDP	C4-C5-N7	-2.65	106.47	110.67
47	PE	501	GTP	N9-C8-N7	-2.65	108.48	113.40
49	JD	501	GDP	C4-C5-N7	-2.65	106.47	110.67
47	DM	501	GTP	N9-C8-N7	-2.65	108.48	113.40
47	FA	501	GTP	C5-C6-N1	2.65	120.00	113.25
47	HE	501	GTP	C5-C6-N1	2.65	120.00	113.25
49	KB	501	GDP	C4-C5-N7	-2.65	106.47	110.67
47	DI	501	GTP	N9-C8-N7	-2.65	108.49	113.40
47	VK	501	GTP	N9-C8-N7	-2.65	108.49	113.40
47	ME	501	GTP	N9-C8-N7	-2.65	108.49	113.40
47	IA	501	GTP	N9-C8-N7	-2.65	108.49	113.40
47	RC	501	GTP	C8-N7-C5	2.65	108.97	104.26
49	OD	501	GDP	C4-C5-N7	-2.65	106.48	110.67
47	HI	501	GTP	N9-C8-N7	-2.65	108.50	113.40
47	WK	501	GTP	N9-C8-N7	-2.65	108.50	113.40
49	UL	501	GDP	C4-C5-N7	-2.64	106.48	110.67
47	MC	501	GTP	N9-C8-N7	-2.64	108.50	113.40
47	JI	501	GTP	N9-C8-N7	-2.64	108.50	113.40
47	CE	501	GTP	N9-C8-N7	-2.64	108.50	113.40
47	RI	501	GTP	N9-C8-N7	-2.64	108.50	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	JE	501	GTP	N9-C8-N7	-2.64	108.50	113.40
47	QE	501	GTP	C5-C6-N1	2.64	119.97	113.25
47	DC	501	GTP	N9-C8-N7	-2.64	108.51	113.40
47	HG	501	GTP	C5-C6-N1	2.64	119.97	113.25
49	WL	501	GDP	C4-C5-N7	-2.64	106.49	110.67
47	IK	501	GTP	N9-C8-N7	-2.64	108.51	113.40
49	CJ	501	GDP	C4-C5-N7	-2.64	106.49	110.67
47	BG	501	GTP	C5-C6-N1	2.64	119.96	113.25
47	HC	501	GTP	C8-N7-C5	2.63	108.95	104.26
47	AG	501	GTP	N9-C8-N7	-2.63	108.52	113.40
47	BI	501	GTP	N9-C8-N7	-2.63	108.52	113.40
47	MG	501	GTP	N9-C8-N7	-2.63	108.52	113.40
47	GC	501	GTP	N9-C8-N7	-2.63	108.52	113.40
47	UM	501	GTP	N9-C8-N7	-2.63	108.52	113.40
47	VC	501	GTP	C5-C6-N1	2.63	119.95	113.25
47	TE	501	GTP	N9-C8-N7	-2.63	108.52	113.40
47	GE	501	GTP	N9-C8-N7	-2.63	108.52	113.40
47	BA	501	GTP	N9-C8-N7	-2.63	108.53	113.40
47	EI	501	GTP	N9-C8-N7	-2.63	108.53	113.40
47	DI	501	GTP	C5-C6-N1	2.63	119.94	113.25
47	FE	501	GTP	N9-C8-N7	-2.63	108.53	113.40
47	KK	501	GTP	N9-C8-N7	-2.63	108.53	113.40
47	FI	501	GTP	C5-C6-N1	2.63	119.94	113.25
47	SE	501	GTP	N9-C8-N7	-2.63	108.53	113.40
49	PL	501	GDP	C4-C5-N7	-2.63	106.51	110.67
47	CC	501	GTP	N9-C8-N7	-2.63	108.53	113.40
47	KI	501	GTP	N9-C8-N7	-2.63	108.53	113.40
47	CK	501	GTP	N9-C8-N7	-2.63	108.53	113.40
47	CE	501	GTP	C5-C6-N1	2.62	119.93	113.25
47	UC	501	GTP	N9-C8-N7	-2.62	108.53	113.40
47	PE	501	GTP	C5-C6-N1	2.62	119.93	113.25
49	CL	501	GDP	C4-C5-N7	-2.62	106.51	110.67
47	IK	501	GTP	C5-C6-N1	2.62	119.93	113.25
47	RI	501	GTP	C5-C6-N1	2.62	119.93	113.25
47	OF	501	GTP	C8-N7-C5	2.62	108.93	104.26
47	HI	501	GTP	C5-C6-N1	2.62	119.92	113.25
47	GG	501	GTP	N9-C8-N7	-2.62	108.54	113.40
47	RM	501	GTP	N9-C8-N7	-2.62	108.54	113.40
47	BM	501	GTP	N9-C8-N7	-2.62	108.54	113.40
47	OC	501	GTP	C8-N7-C5	2.62	108.93	104.26
47	WI	501	GTP	C5-C6-N1	2.62	119.92	113.25
47	GI	501	GTP	N9-C8-N7	-2.62	108.54	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	PM	501	GTP	N9-C8-N7	-2.62	108.54	113.40
47	AC	501	GTP	C5-C6-N1	2.62	119.92	113.25
47	KE	501	GTP	C5-C6-N1	2.62	119.92	113.25
47	GK	501	GTP	C5-C6-N1	2.62	119.92	113.25
47	PG	501	GTP	N9-C8-N7	-2.62	108.55	113.40
49	UD	501	GDP	C4-C5-N7	-2.62	106.53	110.67
47	VC	501	GTP	C8-N7-C5	2.61	108.92	104.26
47	LC	501	GTP	C5-C6-N1	2.61	119.91	113.25
47	HK	501	GTP	N9-C8-N7	-2.61	108.55	113.40
47	PE	501	GTP	C8-N7-C5	2.61	108.92	104.26
47	OF	501	GTP	C5-C6-N1	2.61	119.90	113.25
47	VG	501	GTP	C8-N7-C5	2.61	108.91	104.26
49	PF	501	GDP	C4-C5-N7	-2.61	106.53	110.67
47	ME	501	GTP	C5-C6-N1	2.61	119.90	113.25
47	UE	501	GTP	N9-C8-N7	-2.61	108.56	113.40
47	MI	501	GTP	C5-C6-N1	2.61	119.90	113.25
47	CI	501	GTP	N9-C8-N7	-2.61	108.56	113.40
47	TM	501	GTP	N9-C8-N7	-2.61	108.56	113.40
47	GE	501	GTP	C5-C6-N1	2.61	119.89	113.25
47	HA	501	GTP	N9-C8-N7	-2.61	108.56	113.40
47	VA	501	GTP	C5-C6-N1	2.61	119.89	113.25
47	QC	501	GTP	C5-C6-N1	2.61	119.89	113.25
47	WE	501	GTP	C5-C6-N1	2.61	119.89	113.25
49	HJ	501	GDP	C4-C5-N7	-2.61	106.54	110.67
47	NG	501	GTP	C5-C6-N1	2.61	119.89	113.25
47	TC	501	GTP	C5-C6-N1	2.61	119.88	113.25
47	EG	501	GTP	N9-C8-N7	-2.60	108.57	113.40
47	NK	501	GTP	C5-C6-N1	2.60	119.88	113.25
47	CG	501	GTP	C8-N7-C5	2.60	108.90	104.26
49	WH	501	GDP	C4-C5-N7	-2.60	106.54	110.67
47	NK	501	GTP	N9-C8-N7	-2.60	108.57	113.40
49	JJ	501	GDP	C4-C5-N7	-2.60	106.55	110.67
49	KD	501	GDP	C4-C5-N7	-2.60	106.55	110.67
47	WE	501	GTP	C8-N7-C5	2.60	108.90	104.26
47	AG	501	GTP	C5-C6-N1	2.60	119.88	113.25
47	AK	501	GTP	C5-C6-N1	2.60	119.88	113.25
47	MA	501	GTP	C5-C6-N1	2.60	119.88	113.25
49	CD	501	GDP	C4-C5-N7	-2.60	106.55	110.67
47	NI	501	GTP	C5-C6-N1	2.60	119.88	113.25
47	AI	501	GTP	C5-C6-N1	2.60	119.87	113.25
47	KC	501	GTP	N9-C8-N7	-2.60	108.58	113.40
47	WA	501	GTP	C8-N7-C5	2.60	108.89	104.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	QK	501	GTP	C5-C6-N1	2.60	119.87	113.25
49	BH	501	GDP	C4-C5-N7	-2.60	106.55	110.67
47	LE	501	GTP	C5-C6-N1	2.60	119.86	113.25
47	AA	501	GTP	C5-C6-N1	2.60	119.86	113.25
47	IM	501	GTP	N9-C8-N7	-2.60	108.58	113.40
47	MM	501	GTP	C5-C6-N1	2.60	119.86	113.25
47	KA	501	GTP	C5-C6-N1	2.60	119.86	113.25
47	JM	501	GTP	N9-C8-N7	-2.60	108.59	113.40
47	HA	501	GTP	C5-C6-N1	2.60	119.86	113.25
47	KK	501	GTP	C5-C6-N1	2.60	119.86	113.25
47	HG	501	GTP	C8-N7-C5	2.60	108.88	104.26
47	MC	501	GTP	C5-C6-N1	2.59	119.86	113.25
47	JE	501	GTP	C5-C6-N1	2.59	119.86	113.25
49	JF	501	GDP	C4-C5-N7	-2.59	106.56	110.67
49	NB	501	GDP	C4-C5-N7	-2.59	106.56	110.67
47	OC	501	GTP	C5-C6-N1	2.59	119.85	113.25
47	IC	501	GTP	N9-C8-N7	-2.59	108.59	113.40
47	KM	501	GTP	C5-C6-N1	2.59	119.85	113.25
47	IE	501	GTP	N9-C8-N7	-2.59	108.59	113.40
49	IJ	501	GDP	C4-C5-N7	-2.59	106.56	110.67
47	OM	501	GTP	C5-C6-N1	2.59	119.85	113.25
47	WM	501	GTP	N9-C8-N7	-2.59	108.59	113.40
47	AE	501	GTP	C5-C6-N1	2.59	119.84	113.25
47	II	501	GTP	N9-C8-N7	-2.59	108.60	113.40
47	PA	501	GTP	N9-C8-N7	-2.59	108.60	113.40
49	BJ	501	GDP	C4-C5-N7	-2.59	106.57	110.67
47	WI	501	GTP	C8-N7-C5	2.59	108.87	104.26
47	TI	501	GTP	N9-C8-N7	-2.59	108.60	113.40
47	EK	501	GTP	C5-C6-N1	2.59	119.84	113.25
47	MK	501	GTP	C5-C6-N1	2.59	119.84	113.25
47	GI	501	GTP	C5-C6-N1	2.59	119.84	113.25
49	BB	501	GDP	C4-C5-N7	-2.59	106.57	110.67
49	NL	501	GDP	C4-C5-N7	-2.59	106.57	110.67
47	LC	501	GTP	N9-C8-N7	-2.59	108.61	113.40
49	HL	501	GDP	C4-C5-N7	-2.58	106.58	110.67
49	IF	501	GDP	C4-C5-N7	-2.58	106.58	110.67
49	VF	501	GDP	C4-C5-N7	-2.58	106.58	110.67
47	OK	501	GTP	N9-C8-N7	-2.58	108.61	113.40
49	JH	501	GDP	C4-C5-N7	-2.58	106.58	110.67
47	PI	501	GTP	C8-N7-C5	2.58	108.86	104.26
49	TL	501	GDP	C4-C5-N7	-2.58	106.58	110.67
49	UH	501	GDP	C4-C5-N7	-2.58	106.58	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	HK	501	GTP	C5-C6-N1	2.58	119.83	113.25
47	HM	501	GTP	N9-C8-N7	-2.58	108.61	113.40
47	DI	501	GTP	C8-N7-C5	2.58	108.86	104.26
49	VB	501	GDP	C4-C5-N7	-2.58	106.58	110.67
47	CG	501	GTP	C5-C6-N1	2.58	119.82	113.25
47	RC	501	GTP	C5-C6-N1	2.58	119.82	113.25
49	BF	501	GDP	C4-C5-N7	-2.58	106.58	110.67
49	HD	501	GDP	C4-C5-N7	-2.58	106.58	110.67
49	NN	501	GDP	C4-C5-N7	-2.58	106.58	110.67
47	RE	501	GTP	C5-C6-N1	2.58	119.82	113.25
47	VK	501	GTP	C5-C6-N1	2.58	119.82	113.25
47	PG	501	GTP	C5-C6-N1	2.58	119.81	113.25
47	VI	501	GTP	C8-N7-C5	2.58	108.85	104.26
47	OA	501	GTP	C8-N7-C5	2.58	108.85	104.26
47	LE	501	GTP	O6-C6-C5	-2.58	119.73	126.53
47	HE	501	GTP	N9-C8-N7	-2.57	108.63	113.40
49	PH	501	GDP	C4-C5-N7	-2.57	106.59	110.67
47	IC	501	GTP	C5-C6-N1	2.57	119.81	113.25
47	MG	501	GTP	C5-C6-N1	2.57	119.81	113.25
47	UE	501	GTP	C5-C6-N1	2.57	119.81	113.25
47	IG	501	GTP	N9-C8-N7	-2.57	108.63	113.40
47	NA	501	GTP	N9-C8-N7	-2.57	108.63	113.40
47	PI	501	GTP	C5-C6-N1	2.57	119.81	113.25
47	EM	501	GTP	C8-N7-C5	2.57	108.84	104.26
47	GG	501	GTP	C5-C6-N1	2.57	119.80	113.25
47	IE	501	GTP	C5-C6-N1	2.57	119.80	113.25
47	IM	501	GTP	C5-C6-N1	2.57	119.80	113.25
49	ND	502	GDP	C4-C5-N7	-2.57	106.59	110.67
47	GC	501	GTP	C8-N7-C5	2.57	108.84	104.26
47	NI	501	GTP	O6-C6-C5	-2.57	119.74	126.53
47	BG	501	GTP	C8-N7-C5	2.57	108.84	104.26
47	HC	501	GTP	C5-C6-N1	2.57	119.80	113.25
47	TG	501	GTP	N9-C8-N7	-2.57	108.63	113.40
47	UK	501	GTP	C8-N7-C5	2.57	108.84	104.26
49	OL	501	GDP	C4-C5-N7	-2.57	106.60	110.67
47	BA	501	GTP	C5-C6-N1	2.57	119.80	113.25
47	TK	501	GTP	C5-C6-N1	2.57	119.79	113.25
47	LE	501	GTP	N9-C8-N7	-2.57	108.64	113.40
47	CC	501	GTP	C8-N7-C5	2.57	108.84	104.26
47	UM	501	GTP	C8-N7-C5	2.57	108.84	104.26
47	AE	501	GTP	C8-N7-C5	2.57	108.84	104.26
47	NM	501	GTP	N9-C8-N7	-2.57	108.64	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	TC	501	GTP	N9-C8-N7	-2.57	108.64	113.40
47	RK	501	GTP	C5-C6-N1	2.57	119.79	113.25
47	WC	501	GTP	C5-C6-N1	2.57	119.79	113.25
47	CK	501	GTP	C5-C6-N1	2.57	119.79	113.25
47	EI	501	GTP	C5-C6-N1	2.57	119.79	113.25
49	DF	501	GDP	C4-C5-N7	-2.57	106.60	110.67
49	EL	501	GDP	C4-C5-N7	-2.57	106.60	110.67
47	AM	501	GTP	C5-C6-N1	2.57	119.78	113.25
47	BG	501	GTP	N9-C8-N7	-2.57	108.64	113.40
49	MJ	501	GDP	C4-C5-N7	-2.57	106.60	110.67
49	UN	501	GDP	C4-C5-N7	-2.57	106.60	110.67
47	KC	501	GTP	C5-C6-N1	2.57	119.78	113.25
47	VG	501	GTP	C5-C6-N1	2.56	119.78	113.25
47	UC	501	GTP	C5-C6-N1	2.56	119.78	113.25
49	DL	501	GDP	C4-C5-N7	-2.56	106.61	110.67
47	AK	501	GTP	O6-C6-C5	-2.56	119.77	126.53
47	WG	501	GTP	C8-N7-C5	2.56	108.83	104.26
47	UG	501	GTP	N9-C8-N7	-2.56	108.65	113.40
47	BK	501	GTP	C8-N7-C5	2.56	108.83	104.26
47	DE	501	GTP	C5-C6-N1	2.56	119.78	113.25
47	LA	501	GTP	C5-C6-N1	2.56	119.78	113.25
49	QD	501	GDP	C4-C5-N7	-2.56	106.61	110.67
47	BC	502	GTP	N9-C8-N7	-2.56	108.65	113.40
47	GA	501	GTP	C5-C6-N1	2.56	119.77	113.25
49	IN	501	GDP	C3'-C2'-C1'	2.56	106.31	101.46
49	VH	501	GDP	C4-C5-N7	-2.56	106.61	110.67
47	OA	501	GTP	C5-C6-N1	2.56	119.77	113.25
47	AM	501	GTP	C8-N7-C5	2.56	108.82	104.26
49	KL	501	GDP	C4-C5-N7	-2.56	106.61	110.67
49	FL	502	GDP	C4-C5-N7	-2.56	106.61	110.67
47	NC	501	GTP	C8-N7-C5	2.56	108.82	104.26
47	NG	501	GTP	C8-N7-C5	2.56	108.82	104.26
47	GC	501	GTP	C5-C6-N1	2.56	119.77	113.25
47	VA	501	GTP	C8-N7-C5	2.56	108.82	104.26
47	JA	501	GTP	N9-C8-N7	-2.56	108.66	113.40
47	TG	501	GTP	C5-C6-N1	2.56	119.77	113.25
47	WM	501	GTP	C5-C6-N1	2.56	119.77	113.25
49	LB	501	GDP	C4-C5-N7	-2.56	106.62	110.67
47	UK	501	GTP	C5-C6-N1	2.56	119.76	113.25
47	BC	502	GTP	C5-C6-N1	2.56	119.76	113.25
47	BI	501	GTP	C5-C6-N1	2.56	119.76	113.25
47	FK	501	GTP	N9-C8-N7	-2.56	108.66	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	KG	501	GTP	N9-C8-N7	-2.56	108.66	113.40
47	KG	501	GTP	C5-C6-N1	2.56	119.76	113.25
47	PM	501	GTP	C8-N7-C5	2.56	108.81	104.26
49	CN	501	GDP	C4-C5-N7	-2.56	106.62	110.67
49	JL	501	GDP	C4-C5-N7	-2.56	106.62	110.67
49	OH	501	GDP	C4-C5-N7	-2.55	106.62	110.67
47	CE	501	GTP	C8-N7-C5	2.55	108.81	104.26
49	FB	501	GDP	C4-C5-N7	-2.55	106.62	110.67
49	WF	501	GDP	C4-C5-N7	-2.55	106.62	110.67
47	NK	501	GTP	O6-C6-C5	-2.55	119.79	126.53
49	GB	502	GDP	C4-C5-N7	-2.55	106.62	110.67
47	LM	501	GTP	N9-C8-N7	-2.55	108.67	113.40
47	JI	501	GTP	C8-N7-C5	2.55	108.81	104.26
47	OG	501	GTP	C8-N7-C5	2.55	108.81	104.26
47	DC	501	GTP	C5-C6-N1	2.55	119.75	113.25
49	WB	501	GDP	C4-C5-N7	-2.55	106.63	110.67
47	UI	501	GTP	C5-C6-N1	2.55	119.75	113.25
49	FD	501	GDP	C4-C5-N7	-2.55	106.63	110.67
49	IB	501	GDP	C4-C5-N7	-2.55	106.63	110.67
47	VK	501	GTP	C8-N7-C5	2.55	108.80	104.26
47	BK	501	GTP	C5-C6-N1	2.55	119.75	113.25
49	LD	501	GDP	C4-C5-N7	-2.55	106.63	110.67
47	AK	501	GTP	N9-C8-N7	-2.55	108.67	113.40
47	JC	501	GTP	N9-C8-N7	-2.55	108.67	113.40
47	PD	501	GTP	N9-C8-N7	-2.55	108.67	113.40
47	LK	501	GTP	O6-C6-C5	-2.55	119.80	126.53
47	KI	501	GTP	C5-C6-N1	2.55	119.74	113.25
47	OI	501	GTP	C8-N7-C5	2.55	108.80	104.26
49	RN	501	GDP	C4-C5-N7	-2.55	106.63	110.67
47	IA	501	GTP	C5-C6-N1	2.55	119.74	113.25
47	LK	501	GTP	C5-C6-N1	2.55	119.74	113.25
49	HN	501	GDP	C4-C5-N7	-2.55	106.63	110.67
49	ON	501	GDP	C4-C5-N7	-2.55	106.63	110.67
49	SB	501	GDP	C3'-C2'-C1'	2.55	106.28	101.46
47	QM	501	GTP	C5-C6-N1	2.55	119.74	113.25
47	SG	501	GTP	C5-C6-N1	2.55	119.74	113.25
49	EB	501	GDP	C4-C5-N7	-2.55	106.64	110.67
49	QL	501	GDP	C4-C5-N7	-2.55	106.64	110.67
47	FG	501	GTP	C5-C6-N1	2.55	119.73	113.25
49	HH	501	GDP	C4-C5-N7	-2.55	106.64	110.67
47	VE	501	GTP	O6-C6-C5	-2.55	119.81	126.53
47	II	501	GTP	C5-C6-N1	2.54	119.73	113.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
49	JN	501	GDP	C4-C5-N7	-2.54	106.64	110.67
49	QN	501	GDP	C4-C5-N7	-2.54	106.64	110.67
47	AC	501	GTP	N9-C8-N7	-2.54	108.68	113.40
47	GK	501	GTP	N9-C8-N7	-2.54	108.68	113.40
49	HB	501	GDP	C4-C5-N7	-2.54	106.64	110.67
47	FE	501	GTP	C5-C6-N1	2.54	119.73	113.25
47	NE	501	GTP	O6-C6-C5	-2.54	119.82	126.53
49	DH	501	GDP	C4-C5-N7	-2.54	106.64	110.67
47	LI	501	GTP	C5-C6-N1	2.54	119.73	113.25
47	DC	501	GTP	C8-N7-C5	2.54	108.79	104.26
47	KA	501	GTP	N9-C8-N7	-2.54	108.69	113.40
47	BM	501	GTP	C8-N7-C5	2.54	108.79	104.26
49	VJ	501	GDP	C4-C5-N7	-2.54	106.64	110.67
47	QG	501	GTP	N9-C8-N7	-2.54	108.69	113.40
47	WG	501	GTP	C5-C6-N1	2.54	119.72	113.25
47	HI	501	GTP	C8-N7-C5	2.54	108.79	104.26
47	PM	501	GTP	C5-C6-N1	2.54	119.72	113.25
49	BL	501	GDP	C4-C5-N7	-2.54	106.64	110.67
47	JK	501	GTP	C5-C6-N1	2.54	119.72	113.25
47	PG	501	GTP	C8-N7-C5	2.54	108.78	104.26
47	JG	501	GTP	C5-C6-N1	2.54	119.72	113.25
47	DE	501	GTP	C8-N7-C5	2.54	108.78	104.26
47	CK	501	GTP	C8-N7-C5	2.54	108.78	104.26
47	HK	501	GTP	C8-N7-C5	2.54	108.78	104.26
47	BM	501	GTP	C5-C6-N1	2.54	119.71	113.25
49	UJ	501	GDP	C4-C5-N7	-2.54	106.65	110.67
47	LG	501	GTP	C5-C6-N1	2.54	119.71	113.25
47	NC	501	GTP	C5-C6-N1	2.54	119.71	113.25
47	IE	501	GTP	C8-N7-C5	2.54	108.78	104.26
47	IG	501	GTP	C5-C6-N1	2.54	119.71	113.25
47	SE	501	GTP	C5-C6-N1	2.54	119.71	113.25
49	PB	501	GDP	C4-C5-N7	-2.54	106.65	110.67
47	HA	501	GTP	C8-N7-C5	2.54	108.78	104.26
49	OF	502	GDP	C4-C5-N7	-2.54	106.65	110.67
47	GI	501	GTP	C8-N7-C5	2.54	108.78	104.26
49	EH	501	GDP	C4-C5-N7	-2.54	106.65	110.67
47	PK	501	GTP	N9-C8-N7	-2.54	108.70	113.40
47	AI	501	GTP	C8-N7-C5	2.53	108.78	104.26
47	BA	501	GTP	C8-N7-C5	2.53	108.78	104.26
47	DK	501	GTP	C5-C6-N1	2.53	119.70	113.25
47	MA	501	GTP	C8-N7-C5	2.53	108.78	104.26
49	TJ	501	GDP	C4-C5-N7	-2.53	106.65	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	UM	501	GTP	C5-C6-N1	2.53	119.70	113.25
47	WK	501	GTP	C8-N7-C5	2.53	108.77	104.26
49	DB	501	GDP	C4-C5-N7	-2.53	106.66	110.67
47	UC	501	GTP	C8-N7-C5	2.53	108.77	104.26
47	MK	501	GTP	C8-N7-C5	2.53	108.77	104.26
47	OG	501	GTP	C5-C6-N1	2.53	119.70	113.25
47	WK	501	GTP	C5-C6-N1	2.53	119.70	113.25
47	JK	501	GTP	N9-C8-N7	-2.53	108.71	113.40
47	KE	501	GTP	O6-C6-C5	-2.53	119.85	126.53
47	EG	501	GTP	C5-C6-N1	2.53	119.69	113.25
49	BN	501	GDP	C4-C5-N7	-2.53	106.66	110.67
49	JB	501	GDP	C4-C5-N7	-2.53	106.66	110.67
47	JE	501	GTP	C8-N7-C5	2.53	108.77	104.26
47	CA	501	GTP	C5-C6-N1	2.53	119.69	113.25
47	HM	501	GTP	C5-C6-N1	2.53	119.69	113.25
47	LM	501	GTP	C5-C6-N1	2.53	119.69	113.25
49	MD	501	GDP	C4-C5-N7	-2.53	106.66	110.67
49	MF	501	GDP	C4-C5-N7	-2.53	106.66	110.67
47	CC	501	GTP	C5-C6-N1	2.53	119.69	113.25
47	CI	501	GTP	C5-C6-N1	2.53	119.69	113.25
47	DM	501	GTP	C5-C6-N1	2.53	119.69	113.25
47	SM	501	GTP	C5-C6-N1	2.53	119.69	113.25
47	WC	501	GTP	C8-N7-C5	2.53	108.77	104.26
49	UF	501	GDP	C4-C5-N7	-2.53	106.66	110.67
47	QG	501	GTP	O6-C6-C5	-2.53	119.86	126.53
47	NE	501	GTP	C5-C6-N1	2.53	119.69	113.25
47	NI	501	GTP	N9-C8-N7	-2.53	108.72	113.40
47	WA	501	GTP	C5-C6-N1	2.53	119.68	113.25
47	JC	501	GTP	C5-C6-N1	2.53	119.68	113.25
47	TK	501	GTP	C8-N7-C5	2.53	108.76	104.26
47	EE	501	GTP	C5-C6-N1	2.52	119.68	113.25
49	IN	501	GDP	C4-C5-N7	-2.52	106.67	110.67
49	DN	501	GDP	C4-C5-N7	-2.52	106.67	110.67
49	NF	501	GDP	C4-C5-N7	-2.52	106.67	110.67
47	PD	501	GTP	C5-C6-N1	2.52	119.68	113.25
47	JM	501	GTP	C8-N7-C5	2.52	108.76	104.26
47	RM	501	GTP	C5-C6-N1	2.52	119.68	113.25
49	VL	501	GDP	C4-C5-N7	-2.52	106.67	110.67
47	MI	501	GTP	C8-N7-C5	2.52	108.75	104.26
47	SI	501	GTP	C5-C6-N1	2.52	119.67	113.25
49	DJ	501	GDP	C4-C5-N7	-2.52	106.67	110.67
49	NH	501	GDP	C4-C5-N7	-2.52	106.67	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	OM	501	GTP	C8-N7-C5	2.52	108.75	104.26
47	CM	501	GTP	N9-C8-N7	-2.52	108.72	113.40
47	HE	501	GTP	C8-N7-C5	2.52	108.75	104.26
49	LF	501	GDP	C4-C5-N7	-2.52	106.67	110.67
49	MB	501	GDP	C4-C5-N7	-2.52	106.67	110.67
47	NM	501	GTP	C5-C6-N1	2.52	119.67	113.25
47	IM	501	GTP	C8-N7-C5	2.52	108.75	104.26
47	VI	501	GTP	C5-C6-N1	2.52	119.67	113.25
47	CI	501	GTP	C8-N7-C5	2.52	108.75	104.26
47	IC	501	GTP	C8-N7-C5	2.52	108.75	104.26
47	CM	501	GTP	C5-C6-N1	2.52	119.67	113.25
49	HF	501	GDP	C4-C5-N7	-2.52	106.68	110.67
49	LN	501	GDP	C4-C5-N7	-2.52	106.68	110.67
49	SN	501	GDP	C4-C5-N7	-2.52	106.68	110.67
47	OI	501	GTP	C5-C6-N1	2.52	119.67	113.25
47	RG	501	GTP	C5-C6-N1	2.52	119.66	113.25
49	VD	501	GDP	C4-C5-N7	-2.52	106.68	110.67
47	DG	501	GTP	C5-C6-N1	2.52	119.66	113.25
47	TE	501	GTP	C8-N7-C5	2.52	108.75	104.26
47	RA	501	GTP	C5-C6-N1	2.52	119.66	113.25
49	LL	501	GDP	C4-C5-N7	-2.52	106.68	110.67
47	PD	501	GTP	C8-N7-C5	2.52	108.74	104.26
49	GD	501	GDP	C4-C5-N7	-2.51	106.69	110.67
47	EC	501	GTP	C5-C6-N1	2.51	119.65	113.25
47	KE	501	GTP	C8-N7-C5	2.51	108.74	104.26
47	JG	501	GTP	N9-C8-N7	-2.51	108.74	113.40
47	IA	501	GTP	C8-N7-C5	2.51	108.74	104.26
47	JM	501	GTP	C5-C6-N1	2.51	119.65	113.25
49	TN	501	GDP	C4-C5-N7	-2.51	106.69	110.67
49	UB	501	GDP	C4-C5-N7	-2.51	106.69	110.67
47	EE	501	GTP	O6-C6-C5	-2.51	119.90	126.53
49	AN	501	GDP	C4-C5-N7	-2.51	106.69	110.67
49	SD	501	GDP	C4-C5-N7	-2.51	106.69	110.67
47	FE	501	GTP	C8-N7-C5	2.51	108.73	104.26
47	FM	501	GTP	C5-C6-N1	2.51	119.64	113.25
49	QH	501	GDP	C4-C5-N7	-2.51	106.69	110.67
49	WN	501	GDP	C4-C5-N7	-2.51	106.69	110.67
47	QI	501	GTP	C5-C6-N1	2.51	119.64	113.25
47	LA	501	GTP	N9-C8-N7	-2.51	108.75	113.40
47	LG	501	GTP	N9-C8-N7	-2.51	108.75	113.40
47	UG	501	GTP	C5-C6-N1	2.51	119.64	113.25
49	KN	501	GDP	C4-C5-N7	-2.51	106.69	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
49	WD	501	GDP	C4-C5-N7	-2.51	106.69	110.67
47	SK	501	GTP	C5-C6-N1	2.51	119.64	113.25
47	BE	501	GTP	N9-C8-N7	-2.51	108.75	113.40
47	RA	501	GTP	N9-C8-N7	-2.51	108.75	113.40
49	OJ	501	GDP	C4-C5-N7	-2.51	106.69	110.67
47	LI	501	GTP	O6-C6-C5	-2.51	119.91	126.53
47	BE	501	GTP	C5-C6-N1	2.51	119.64	113.25
49	CH	501	GDP	C4-C5-N7	-2.51	106.70	110.67
49	AL	501	GDP	C4-C5-N7	-2.51	106.70	110.67
47	MG	501	GTP	C8-N7-C5	2.51	108.73	104.26
49	AB	501	GDP	C3'-C2'-C1'	2.51	106.20	101.46
47	TA	501	GTP	N9-C8-N7	-2.51	108.75	113.40
47	TI	501	GTP	C5-C6-N1	2.51	119.63	113.25
47	VM	501	GTP	N9-C8-N7	-2.51	108.75	113.40
47	AA	501	GTP	O6-C6-C5	-2.51	119.92	126.53
47	TM	501	GTP	C5-C6-N1	2.51	119.63	113.25
47	KM	501	GTP	C8-N7-C5	2.51	108.72	104.26
47	FM	501	GTP	N9-C8-N7	-2.51	108.75	113.40
47	UE	501	GTP	C8-N7-C5	2.50	108.72	104.26
49	OB	501	GDP	C4-C5-N7	-2.50	106.70	110.67
47	JI	501	GTP	C5-C6-N1	2.50	119.63	113.25
47	DM	501	GTP	C8-N7-C5	2.50	108.72	104.26
47	RI	501	GTP	C8-N7-C5	2.50	108.72	104.26
47	BC	502	GTP	C8-N7-C5	2.50	108.72	104.26
47	TA	501	GTP	C5-C6-N1	2.50	119.62	113.25
47	TE	501	GTP	C5-C6-N1	2.50	119.62	113.25
47	IK	501	GTP	C8-N7-C5	2.50	108.72	104.26
49	FF	501	GDP	C4-C5-N7	-2.50	106.70	110.67
49	LH	501	GDP	C4-C5-N7	-2.50	106.71	110.67
47	MM	501	GTP	C8-N7-C5	2.50	108.72	104.26
47	VE	501	GTP	N9-C8-N7	-2.50	108.77	113.40
47	FC	501	GTP	C5-C6-N1	2.50	119.62	113.25
47	RK	501	GTP	O6-C6-C5	-2.50	119.93	126.53
47	WM	501	GTP	C8-N7-C5	2.50	108.71	104.26
47	OK	501	GTP	C5-C6-N1	2.50	119.61	113.25
47	AG	501	GTP	C8-N7-C5	2.50	108.71	104.26
47	UA	501	GTP	N9-C8-N7	-2.50	108.77	113.40
47	PA	501	GTP	C8-N7-C5	2.50	108.71	104.26
47	QA	501	GTP	C5-C6-N1	2.50	119.61	113.25
47	NG	501	GTP	O6-C6-C5	-2.50	119.94	126.53
47	FI	501	GTP	C8-N7-C5	2.50	108.71	104.26
47	TC	501	GTP	C8-N7-C5	2.50	108.71	104.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	VM	501	GTP	C5-C6-N1	2.50	119.61	113.25
47	FG	501	GTP	C8-N7-C5	2.50	108.71	104.26
47	JA	501	GTP	C8-N7-C5	2.50	108.71	104.26
47	LA	501	GTP	O6-C6-C5	-2.50	119.94	126.53
47	BI	501	GTP	C8-N7-C5	2.49	108.70	104.26
47	SK	501	GTP	C8-N7-C5	2.49	108.70	104.26
47	SA	501	GTP	C5-C6-N1	2.49	119.60	113.25
47	EK	501	GTP	C8-N7-C5	2.49	108.70	104.26
47	AI	501	GTP	O6-C6-C5	-2.49	119.95	126.53
47	FK	501	GTP	C5-C6-N1	2.49	119.60	113.25
47	DK	501	GTP	N9-C8-N7	-2.49	108.78	113.40
47	GM	501	GTP	N9-C8-N7	-2.49	108.78	113.40
49	CF	501	GDP	C4-C5-N7	-2.49	106.72	110.67
47	GG	501	GTP	C8-N7-C5	2.49	108.70	104.26
47	EA	501	GTP	C5-C6-N1	2.49	119.60	113.25
47	JA	501	GTP	C5-C6-N1	2.49	119.60	113.25
47	II	501	GTP	C8-N7-C5	2.49	108.70	104.26
47	DA	501	GTP	N9-C8-N7	-2.49	108.78	113.40
47	UA	501	GTP	C5-C6-N1	2.49	119.59	113.25
47	AA	501	GTP	C8-N7-C5	2.49	108.70	104.26
47	MC	501	GTP	C8-N7-C5	2.49	108.70	104.26
47	NA	501	GTP	C8-N7-C5	2.49	108.69	104.26
47	UI	501	GTP	C8-N7-C5	2.49	108.69	104.26
49	QB	501	GDP	C4-C5-N7	-2.49	106.72	110.67
49	LJ	501	GDP	C4-C5-N7	-2.49	106.73	110.67
49	PD	502	GDP	C4-C5-N7	-2.49	106.73	110.67
49	GL	502	GDP	C4-C5-N7	-2.49	106.73	110.67
49	HD	501	GDP	C3'-C2'-C1'	2.49	106.17	101.46
49	SF	501	GDP	C4-C5-N7	-2.49	106.73	110.67
49	SH	501	GDP	C4-C5-N7	-2.49	106.73	110.67
47	AG	501	GTP	O6-C6-C5	-2.49	119.97	126.53
47	OM	501	GTP	O6-C6-C5	-2.49	119.97	126.53
49	WN	501	GDP	C3'-C2'-C1'	2.49	106.16	101.46
49	MD	501	GDP	C3'-C2'-C1'	2.48	106.16	101.46
47	DK	501	GTP	C8-N7-C5	2.48	108.69	104.26
47	KI	501	GTP	C8-N7-C5	2.48	108.69	104.26
47	CM	501	GTP	C8-N7-C5	2.48	108.69	104.26
47	QK	501	GTP	O6-C6-C5	-2.48	119.98	126.53
47	NE	501	GTP	N9-C8-N7	-2.48	108.80	113.40
47	SA	501	GTP	N9-C8-N7	-2.48	108.80	113.40
47	NA	501	GTP	C5-C6-N1	2.48	119.57	113.25
49	RD	501	GDP	C4-C5-N7	-2.48	106.74	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	ME	501	GTP	C8-N7-C5	2.48	108.68	104.26
49	IH	501	GDP	C4-C5-N7	-2.48	106.74	110.67
47	GM	501	GTP	C5-C6-N1	2.48	119.57	113.25
49	VN	501	GDP	C3'-C2'-C1'	2.48	106.15	101.46
47	EE	501	GTP	C8-N7-C5	2.48	108.67	104.26
47	GE	501	GTP	C8-N7-C5	2.48	108.67	104.26
47	SI	501	GTP	O6-C6-C5	-2.48	119.99	126.53
49	FJ	501	GDP	C4-C5-N7	-2.48	106.74	110.67
49	TB	501	GDP	C3'-C2'-C1'	2.48	106.15	101.46
47	HM	501	GTP	C8-N7-C5	2.48	108.67	104.26
47	JG	501	GTP	C8-N7-C5	2.48	108.67	104.26
47	PK	501	GTP	C8-N7-C5	2.48	108.67	104.26
47	TM	501	GTP	C8-N7-C5	2.48	108.67	104.26
47	QA	501	GTP	N9-C8-N7	-2.48	108.81	113.40
47	IE	501	GTP	O6-C6-C5	-2.48	119.99	126.53
47	JK	501	GTP	C8-N7-C5	2.48	108.67	104.26
47	LC	501	GTP	C8-N7-C5	2.48	108.67	104.26
47	EI	501	GTP	C8-N7-C5	2.48	108.67	104.26
47	RC	501	GTP	O6-C6-C5	-2.48	120.00	126.53
47	JC	501	GTP	C8-N7-C5	2.48	108.67	104.26
49	GJ	501	GDP	C4-C5-N7	-2.47	106.75	110.67
47	EA	501	GTP	N9-C8-N7	-2.47	108.82	113.40
47	UG	501	GTP	C8-N7-C5	2.47	108.66	104.26
47	AC	501	GTP	C8-N7-C5	2.47	108.66	104.26
47	EC	501	GTP	C8-N7-C5	2.47	108.66	104.26
47	PA	501	GTP	C5-C6-N1	2.47	119.54	113.25
47	KC	501	GTP	C8-N7-C5	2.47	108.66	104.26
49	DD	501	GDP	C4-C5-N7	-2.47	106.75	110.67
49	MN	501	GDP	C4-C5-N7	-2.47	106.76	110.67
49	SB	501	GDP	C4-C5-N7	-2.47	106.76	110.67
47	KK	501	GTP	C8-N7-C5	2.47	108.66	104.26
47	SE	501	GTP	C8-N7-C5	2.47	108.66	104.26
49	GF	501	GDP	C4-C5-N7	-2.47	106.76	110.67
47	RM	501	GTP	C8-N7-C5	2.47	108.65	104.26
47	UI	501	GTP	N9-C8-N7	-2.47	108.83	113.40
49	FH	501	GDP	C4-C5-N7	-2.47	106.76	110.67
49	RL	501	GDP	C4-C5-N7	-2.47	106.76	110.67
47	QA	501	GTP	O6-C6-C5	-2.47	120.02	126.53
49	KH	501	GDP	C4-C5-N7	-2.47	106.76	110.67
47	AE	501	GTP	O6-C6-C5	-2.47	120.03	126.53
47	IG	501	GTP	O6-C6-C5	-2.47	120.03	126.53
49	BD	501	GDP	C4-C5-N7	-2.46	106.76	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	VM	501	GTP	C8-N7-C5	2.46	108.65	104.26
49	AJ	501	GDP	C2'-C3'-C4'	2.46	107.37	102.61
47	SC	501	GTP	C5-C6-N1	2.46	119.53	113.25
49	GN	502	GDP	C4-C5-N7	-2.46	106.77	110.67
47	SG	501	GTP	O6-C6-C5	-2.46	120.03	126.53
47	GK	501	GTP	C8-N7-C5	2.46	108.65	104.26
47	DA	501	GTP	C5-C6-N1	2.46	119.52	113.25
47	CA	501	GTP	N9-C8-N7	-2.46	108.83	113.40
49	ML	501	GDP	C4-C5-N7	-2.46	106.77	110.67
49	AN	501	GDP	C3'-C2'-C1'	2.46	106.12	101.46
47	EM	501	GTP	C5-C6-N1	2.46	119.52	113.25
49	QF	501	GDP	C4-C5-N7	-2.46	106.77	110.67
47	TA	501	GTP	C8-N7-C5	2.46	108.64	104.26
47	GA	501	GTP	N9-C8-N7	-2.46	108.84	113.40
49	QB	501	GDP	C3'-C2'-C1'	2.46	106.11	101.46
47	MM	501	GTP	O6-C6-C5	-2.46	120.04	126.53
47	SM	501	GTP	N9-C8-N7	-2.46	108.84	113.40
47	GE	501	GTP	O6-C6-C5	-2.46	120.05	126.53
49	FN	501	GDP	C4-C5-N7	-2.46	106.78	110.67
49	WJ	501	GDP	C4-C5-N7	-2.46	106.78	110.67
49	TD	501	GDP	C4-C5-N7	-2.45	106.78	110.67
47	FG	501	GTP	O6-C6-C5	-2.45	120.05	126.53
47	JE	501	GTP	O6-C6-C5	-2.45	120.06	126.53
47	FK	501	GTP	C8-N7-C5	2.45	108.63	104.26
47	NM	501	GTP	O6-C6-C5	-2.45	120.06	126.53
47	RA	501	GTP	C8-N7-C5	2.45	108.63	104.26
47	NC	501	GTP	O6-C6-C5	-2.45	120.06	126.53
49	RH	501	GDP	C4-C5-N7	-2.45	106.79	110.67
49	AD	501	GDP	C4-C5-N7	-2.45	106.79	110.67
49	AF	501	GDP	C4-C5-N7	-2.45	106.79	110.67
47	OK	501	GTP	C8-N7-C5	2.45	108.62	104.26
47	KC	501	GTP	O6-C6-C5	-2.45	120.07	126.53
47	IK	501	GTP	O6-C6-C5	-2.45	120.07	126.53
47	KG	501	GTP	C8-N7-C5	2.45	108.62	104.26
47	GA	501	GTP	C8-N7-C5	2.45	108.62	104.26
47	IG	501	GTP	C8-N7-C5	2.45	108.62	104.26
47	RG	501	GTP	O6-C6-C5	-2.45	120.08	126.53
49	EF	501	GDP	C4-C5-N7	-2.45	106.79	110.67
49	NJ	501	GDP	C4-C5-N7	-2.45	106.79	110.67
47	BE	501	GTP	O6-C6-C5	-2.45	120.08	126.53
47	SG	501	GTP	C8-N7-C5	2.44	108.61	104.26
49	BN	501	GDP	C3'-C2'-C1'	2.44	106.09	101.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	FM	501	GTP	C8-N7-C5	2.44	108.61	104.26
47	EG	501	GTP	C8-N7-C5	2.44	108.61	104.26
47	KG	501	GTP	O6-C6-C5	-2.44	120.09	126.53
47	AC	501	GTP	O6-C6-C5	-2.44	120.09	126.53
47	LM	501	GTP	C8-N7-C5	2.44	108.60	104.26
47	ME	501	GTP	O6-C6-C5	-2.44	120.10	126.53
47	GM	501	GTP	C8-N7-C5	2.44	108.60	104.26
47	NK	501	GTP	C8-N7-C5	2.44	108.60	104.26
49	AB	501	GDP	O6-C6-C5	-2.44	120.10	126.53
49	TB	501	GDP	C4-C5-N7	-2.44	106.81	110.67
47	LM	501	GTP	O6-C6-C5	-2.44	120.10	126.53
47	RI	501	GTP	O6-C6-C5	-2.44	120.10	126.53
47	GG	501	GTP	O6-C6-C5	-2.44	120.10	126.53
47	FI	501	GTP	O6-C6-C5	-2.44	120.10	126.53
47	OF	501	GTP	O6-C6-C5	-2.44	120.10	126.53
47	KA	501	GTP	C8-N7-C5	2.43	108.60	104.26
47	TI	501	GTP	C8-N7-C5	2.43	108.60	104.26
47	LI	501	GTP	N9-C8-N7	-2.43	108.89	113.40
49	AH	501	GDP	C4-C5-N7	-2.43	106.81	110.67
49	TH	501	GDP	C4-C5-N7	-2.43	106.81	110.67
47	EI	501	GTP	O6-C6-C5	-2.43	120.11	126.53
49	SL	501	GDP	C3'-C2'-C1'	2.43	106.06	101.46
47	SI	501	GTP	C8-N7-C5	2.43	108.59	104.26
47	JC	501	GTP	O6-C6-C5	-2.43	120.11	126.53
47	FC	501	GTP	O6-C6-C5	-2.43	120.11	126.53
47	TA	501	GTP	O6-C6-C5	-2.43	120.11	126.53
47	MI	501	GTP	O6-C6-C5	-2.43	120.11	126.53
49	QJ	501	GDP	C4-C5-N7	-2.43	106.82	110.67
49	SL	501	GDP	C4-C5-N7	-2.43	106.82	110.67
49	CB	501	GDP	C3'-C2'-C1'	2.43	106.06	101.46
49	OB	501	GDP	C3'-C2'-C1'	2.43	106.06	101.46
47	BI	501	GTP	O6-C6-C5	-2.43	120.12	126.53
49	GH	501	GDP	C4-C5-N7	-2.43	106.82	110.67
47	CA	501	GTP	C8-N7-C5	2.43	108.59	104.26
47	UA	501	GTP	C8-N7-C5	2.43	108.59	104.26
47	UA	501	GTP	O6-C6-C5	-2.43	120.12	126.53
47	QK	501	GTP	N9-C8-N7	-2.43	108.90	113.40
47	SC	501	GTP	O6-C6-C5	-2.43	120.12	126.53
47	GC	501	GTP	O6-C6-C5	-2.43	120.12	126.53
47	LE	501	GTP	C8-N7-C5	2.43	108.58	104.26
49	HN	501	GDP	C3'-C2'-C1'	2.43	106.06	101.46
47	GA	501	GTP	O6-C6-C5	-2.43	120.13	126.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	KI	501	GTP	O6-C6-C5	-2.43	120.13	126.53
47	LC	501	GTP	O6-C6-C5	-2.43	120.13	126.53
49	VN	501	GDP	C4-C5-N7	-2.43	106.83	110.67
47	EG	501	GTP	O6-C6-C5	-2.42	120.13	126.53
47	LA	501	GTP	C8-N7-C5	2.42	108.58	104.26
47	SC	501	GTP	C8-N7-C5	2.42	108.58	104.26
49	FD	501	GDP	C3'-C2'-C1'	2.42	106.05	101.46
49	FN	501	GDP	C3'-C2'-C1'	2.42	106.05	101.46
47	BK	501	GTP	O6-C6-C5	-2.42	120.14	126.53
47	LG	501	GTP	C8-N7-C5	2.42	108.58	104.26
49	TF	501	GDP	C4-C5-N7	-2.42	106.83	110.67
47	NM	501	GTP	C8-N7-C5	2.42	108.57	104.26
49	MH	501	GDP	C4-C5-N7	-2.42	106.83	110.67
49	ED	501	GDP	C4-C5-N7	-2.42	106.84	110.67
47	VE	501	GTP	C8-N7-C5	2.42	108.57	104.26
47	EC	501	GTP	O6-C6-C5	-2.42	120.15	126.53
47	HE	501	GTP	O6-C6-C5	-2.42	120.15	126.53
47	DA	501	GTP	C8-N7-C5	2.42	108.57	104.26
47	DC	501	GTP	O6-C6-C5	-2.42	120.16	126.53
49	TL	501	GDP	C3'-C2'-C1'	2.42	106.03	101.46
49	WF	501	GDP	C3'-C2'-C1'	2.42	106.03	101.46
49	FB	501	GDP	C3'-C2'-C1'	2.42	106.03	101.46
47	AK	501	GTP	C8-N7-C5	2.42	108.56	104.26
49	OJ	501	GDP	C3'-C2'-C1'	2.41	106.03	101.46
49	SD	501	GDP	C3'-C2'-C1'	2.41	106.03	101.46
49	SN	501	GDP	C3'-C2'-C1'	2.41	106.03	101.46
49	SF	501	GDP	C3'-C2'-C1'	2.41	106.03	101.46
49	UB	501	GDP	C3'-C2'-C1'	2.41	106.03	101.46
47	EA	501	GTP	C8-N7-C5	2.41	108.56	104.26
47	TG	501	GTP	O6-C6-C5	-2.41	120.17	126.53
49	ID	501	GDP	C3'-C2'-C1'	2.41	106.02	101.46
49	GN	502	GDP	C3'-C2'-C1'	2.41	106.02	101.46
49	HJ	501	GDP	C3'-C2'-C1'	2.41	106.02	101.46
47	DG	501	GTP	O6-C6-C5	-2.41	120.18	126.53
49	DN	501	GDP	C3'-C2'-C1'	2.41	106.01	101.46
47	MA	501	GTP	O6-C6-C5	-2.41	120.18	126.53
49	MB	501	GDP	C3'-C2'-C1'	2.41	106.01	101.46
47	KA	501	GTP	O6-C6-C5	-2.40	120.18	126.53
47	MK	501	GTP	O6-C6-C5	-2.40	120.19	126.53
47	CK	501	GTP	O6-C6-C5	-2.40	120.19	126.53
47	SA	501	GTP	C8-N7-C5	2.40	108.54	104.26
49	EB	501	GDP	C3'-C2'-C1'	2.40	106.01	101.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	OA	501	GTP	O6-C6-C5	-2.40	120.19	126.53
49	TD	501	GDP	C3'-C2'-C1'	2.40	106.00	101.46
49	BJ	501	GDP	C3'-C2'-C1'	2.40	106.00	101.46
49	PB	501	GDP	C3'-C2'-C1'	2.40	106.00	101.46
47	AM	501	GTP	O6-C6-C5	-2.40	120.20	126.53
49	TF	501	GDP	C3'-C2'-C1'	2.40	106.00	101.46
49	TN	501	GDP	C3'-C2'-C1'	2.40	106.00	101.46
49	VF	501	GDP	C3'-C2'-C1'	2.40	106.00	101.46
47	BC	502	GTP	O6-C6-C5	-2.40	120.20	126.53
47	EA	501	GTP	O6-C6-C5	-2.40	120.20	126.53
47	BE	501	GTP	C8-N7-C5	2.40	108.53	104.26
49	VH	501	GDP	C3'-C2'-C1'	2.40	106.00	101.46
49	CB	501	GDP	C4-C5-N7	-2.40	106.87	110.67
49	GB	502	GDP	C3'-C2'-C1'	2.40	106.00	101.46
49	QN	501	GDP	C3'-C2'-C1'	2.40	106.00	101.46
47	II	501	GTP	O6-C6-C5	-2.40	120.21	126.53
49	BB	501	GDP	C3'-C2'-C1'	2.40	106.00	101.46
49	HB	501	GDP	C3'-C2'-C1'	2.40	106.00	101.46
47	QA	501	GTP	C8-N7-C5	2.40	108.53	104.26
49	RF	501	GDP	C4-C5-N7	-2.39	106.88	110.67
47	NI	501	GTP	C8-N7-C5	2.39	108.53	104.26
47	SA	501	GTP	O6-C6-C5	-2.39	120.21	126.53
47	DA	501	GTP	O6-C6-C5	-2.39	120.22	126.53
47	MC	501	GTP	O6-C6-C5	-2.39	120.22	126.53
47	MG	501	GTP	O6-C6-C5	-2.39	120.22	126.53
49	RN	501	GDP	C3'-C2'-C1'	2.39	105.99	101.46
49	WL	501	GDP	C3'-C2'-C1'	2.39	105.99	101.46
49	DD	501	GDP	C3'-C2'-C1'	2.39	105.99	101.46
47	GK	501	GTP	O6-C6-C5	-2.39	120.22	126.53
47	VK	501	GTP	O6-C6-C5	-2.39	120.22	126.53
47	EM	501	GTP	N9-C8-N7	-2.39	108.97	113.40
49	OF	502	GDP	C3'-C2'-C1'	2.39	105.98	101.46
47	PK	501	GTP	O6-C6-C5	-2.39	120.23	126.53
47	GM	501	GTP	O6-C6-C5	-2.39	120.23	126.53
47	RA	501	GTP	O6-C6-C5	-2.39	120.23	126.53
47	DG	501	GTP	C8-N7-C5	2.39	108.51	104.26
49	VB	501	GDP	C3'-C2'-C1'	2.39	105.98	101.46
47	WC	501	GTP	O6-C6-C5	-2.39	120.23	126.53
47	FM	501	GTP	O6-C6-C5	-2.39	120.23	126.53
47	QI	501	GTP	N9-C8-N7	-2.39	108.98	113.40
47	KK	501	GTP	O6-C6-C5	-2.38	120.24	126.53
49	DB	501	GDP	C3'-C2'-C1'	2.38	105.97	101.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	UI	501	GTP	O6-C6-C5	-2.38	120.24	126.53
47	TG	501	GTP	C8-N7-C5	2.38	108.51	104.26
47	HI	501	GTP	O6-C6-C5	-2.38	120.24	126.53
47	DE	501	GTP	O6-C6-C5	-2.38	120.25	126.53
49	RL	501	GDP	C3'-C2'-C1'	2.38	105.97	101.46
47	LG	501	GTP	O6-C6-C5	-2.38	120.25	126.53
49	TJ	501	GDP	C3'-C2'-C1'	2.38	105.97	101.46
47	EK	501	GTP	O6-C6-C5	-2.38	120.25	126.53
47	SE	501	GTP	O6-C6-C5	-2.38	120.25	126.53
49	NB	501	GDP	C3'-C2'-C1'	2.38	105.96	101.46
47	LK	501	GTP	N9-C8-N7	-2.38	108.99	113.40
49	GL	502	GDP	C3'-C2'-C1'	2.38	105.96	101.46
47	UC	501	GTP	O6-C6-C5	-2.38	120.25	126.53
47	CI	501	GTP	O6-C6-C5	-2.38	120.26	126.53
47	NA	501	GTP	O6-C6-C5	-2.38	120.26	126.53
49	UH	501	GDP	C3'-C2'-C1'	2.38	105.96	101.46
47	QI	501	GTP	O6-C6-C5	-2.38	120.26	126.53
47	UG	501	GTP	O6-C6-C5	-2.38	120.26	126.53
47	HA	501	GTP	O6-C6-C5	-2.37	120.26	126.53
47	OC	501	GTP	O6-C6-C5	-2.37	120.26	126.53
47	RE	501	GTP	O6-C6-C5	-2.37	120.27	126.53
47	FA	501	GTP	O6-C6-C5	-2.37	120.27	126.53
47	QI	501	GTP	C8-N7-C5	2.37	108.49	104.26
47	VM	501	GTP	O6-C6-C5	-2.37	120.27	126.53
49	WB	501	GDP	C3'-C2'-C1'	2.37	105.95	101.46
47	QG	501	GTP	C8-N7-C5	2.37	108.48	104.26
47	CA	501	GTP	O6-C6-C5	-2.37	120.27	126.53
47	DG	501	GTP	N9-C8-N7	-2.37	109.01	113.40
47	BG	501	GTP	O6-C6-C5	-2.37	120.28	126.53
47	FE	501	GTP	O6-C6-C5	-2.37	120.28	126.53
47	OG	501	GTP	O6-C6-C5	-2.37	120.28	126.53
49	AJ	501	GDP	O6-C6-C5	-2.37	120.28	126.53
47	HM	501	GTP	O6-C6-C5	-2.37	120.28	126.53
47	WG	501	GTP	O6-C6-C5	-2.37	120.28	126.53
47	JG	501	GTP	O6-C6-C5	-2.37	120.29	126.53
47	TK	501	GTP	O6-C6-C5	-2.37	120.29	126.53
47	KM	501	GTP	O6-C6-C5	-2.37	120.29	126.53
47	PA	501	GTP	O6-C6-C5	-2.36	120.29	126.53
49	AH	501	GDP	C3'-C2'-C1'	2.36	105.93	101.46
49	OH	501	GDP	C3'-C2'-C1'	2.36	105.93	101.46
47	QC	501	GTP	O6-C6-C5	-2.36	120.30	126.53
49	UF	501	GDP	C3'-C2'-C1'	2.36	105.93	101.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	UK	501	GTP	O6-C6-C5	-2.36	120.30	126.53
47	HG	501	GTP	O6-C6-C5	-2.36	120.30	126.53
47	TE	501	GTP	O6-C6-C5	-2.36	120.30	126.53
47	UE	501	GTP	O6-C6-C5	-2.36	120.30	126.53
47	LK	501	GTP	C8-N7-C5	2.36	108.46	104.26
47	CM	501	GTP	O6-C6-C5	-2.36	120.31	126.53
47	SM	501	GTP	C8-N7-C5	2.36	108.46	104.26
47	LI	501	GTP	C8-N7-C5	2.36	108.46	104.26
47	JM	501	GTP	O6-C6-C5	-2.36	120.31	126.53
49	SJ	501	GDP	C4-C5-N7	-2.36	106.94	110.67
47	DM	501	GTP	O6-C6-C5	-2.36	120.31	126.53
47	SM	501	GTP	O6-C6-C5	-2.36	120.31	126.53
47	TI	501	GTP	O6-C6-C5	-2.36	120.31	126.53
49	EN	501	GDP	C4-C5-N7	-2.36	106.94	110.67
47	IA	501	GTP	O6-C6-C5	-2.36	120.31	126.53
49	UJ	501	GDP	C3'-C2'-C1'	2.36	105.92	101.46
49	EL	501	GDP	C3'-C2'-C1'	2.35	105.91	101.46
49	PD	502	GDP	C3'-C2'-C1'	2.35	105.91	101.46
47	SK	501	GTP	O6-C6-C5	-2.35	120.32	126.53
49	RJ	501	GDP	C4-C5-N7	-2.35	106.94	110.67
49	TH	501	GDP	C3'-C2'-C1'	2.35	105.91	101.46
49	HF	501	GDP	C3'-C2'-C1'	2.35	105.91	101.46
47	UM	501	GTP	O6-C6-C5	-2.35	120.34	126.53
47	DK	501	GTP	O6-C6-C5	-2.35	120.34	126.53
49	EJ	501	GDP	C4-C5-N7	-2.34	106.95	110.67
47	BM	501	GTP	O6-C6-C5	-2.34	120.34	126.53
47	VG	501	GTP	O6-C6-C5	-2.34	120.34	126.53
49	AD	501	GDP	C3'-C2'-C1'	2.34	105.90	101.46
49	WJ	501	GDP	C3'-C2'-C1'	2.34	105.90	101.46
47	IC	501	GTP	O6-C6-C5	-2.34	120.35	126.53
49	CL	501	GDP	C3'-C2'-C1'	2.34	105.89	101.46
47	CC	501	GTP	O6-C6-C5	-2.34	120.36	126.53
49	VJ	501	GDP	C3'-C2'-C1'	2.34	105.89	101.46
49	IB	501	GDP	C3'-C2'-C1'	2.34	105.88	101.46
47	NE	501	GTP	C8-N7-C5	2.34	108.42	104.26
49	UN	501	GDP	C3'-C2'-C1'	2.34	105.88	101.46
47	GI	501	GTP	O6-C6-C5	-2.33	120.37	126.53
49	NN	501	GDP	C3'-C2'-C1'	2.33	105.88	101.46
47	CG	501	GTP	O6-C6-C5	-2.33	120.38	126.53
47	QK	501	GTP	C8-N7-C5	2.33	108.41	104.26
49	CD	501	GDP	C3'-C2'-C1'	2.33	105.87	101.46
49	JN	501	GDP	C3'-C2'-C1'	2.33	105.87	101.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	QE	501	GTP	O6-C6-C5	-2.33	120.38	126.53
47	WA	501	GTP	O6-C6-C5	-2.33	120.39	126.53
47	OI	501	GTP	O6-C6-C5	-2.33	120.39	126.53
47	OK	501	GTP	O6-C6-C5	-2.33	120.39	126.53
47	JK	501	GTP	O6-C6-C5	-2.32	120.40	126.53
47	PD	501	GTP	O6-C6-C5	-2.32	120.40	126.53
49	JB	501	GDP	C3'-C2'-C1'	2.32	105.85	101.46
47	FK	501	GTP	O6-C6-C5	-2.32	120.41	126.53
47	JA	501	GTP	O6-C6-C5	-2.32	120.41	126.53
49	PL	501	GDP	C3'-C2'-C1'	2.32	105.84	101.46
49	AF	501	GDP	C3'-C2'-C1'	2.31	105.84	101.46
49	SL	501	GDP	O6-C6-C5	-2.31	120.42	126.53
47	VI	501	GTP	O6-C6-C5	-2.31	120.43	126.53
49	EJ	501	GDP	O6-C6-C5	-2.31	120.43	126.53
49	OL	501	GDP	C3'-C2'-C1'	2.31	105.83	101.46
47	WI	501	GTP	O6-C6-C5	-2.31	120.44	126.53
49	AB	501	GDP	C4-C5-N7	-2.31	107.01	110.67
49	NF	501	GDP	C3'-C2'-C1'	2.31	105.83	101.46
49	JL	501	GDP	C3'-C2'-C1'	2.30	105.81	101.46
49	LN	501	GDP	C3'-C2'-C1'	2.30	105.81	101.46
47	QM	501	GTP	O6-C6-C5	-2.30	120.46	126.53
49	DL	501	GDP	C3'-C2'-C1'	2.30	105.81	101.46
47	WE	501	GTP	O6-C6-C5	-2.30	120.47	126.53
49	NJ	501	GDP	C3'-C2'-C1'	2.29	105.80	101.46
49	LB	501	GDP	C3'-C2'-C1'	2.29	105.80	101.46
47	TC	501	GTP	O6-C6-C5	-2.29	120.48	126.53
49	JF	501	GDP	C3'-C2'-C1'	2.29	105.80	101.46
47	IM	501	GTP	O6-C6-C5	-2.29	120.48	126.53
49	AL	501	GDP	C3'-C2'-C1'	2.29	105.80	101.46
47	VA	501	GTP	O6-C6-C5	-2.29	120.49	126.53
47	WM	501	GTP	O6-C6-C5	-2.29	120.49	126.53
49	HH	501	GDP	C3'-C2'-C1'	2.29	105.79	101.46
49	EN	501	GDP	O6-C6-C5	-2.29	120.50	126.53
49	LD	501	GDP	C3'-C2'-C1'	2.29	105.79	101.46
47	PG	501	GTP	O6-C6-C5	-2.28	120.50	126.53
47	TM	501	GTP	O6-C6-C5	-2.28	120.51	126.53
49	ED	501	GDP	C3'-C2'-C1'	2.28	105.78	101.46
49	NL	501	GDP	C3'-C2'-C1'	2.28	105.78	101.46
47	DI	501	GTP	O6-C6-C5	-2.28	120.51	126.53
49	UL	501	GDP	C3'-C2'-C1'	2.27	105.77	101.46
49	ON	501	GDP	C3'-C2'-C1'	2.27	105.76	101.46
49	CN	501	GDP	C3'-C2'-C1'	2.27	105.76	101.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
49	PF	501	GDP	C3'-C2'-C1'	2.27	105.76	101.46
49	QL	501	GDP	C3'-C2'-C1'	2.27	105.75	101.46
49	VD	501	GDP	O6-C6-C5	-2.27	120.55	126.53
49	MH	501	GDP	C3'-C2'-C1'	2.27	105.75	101.46
47	PM	501	GTP	O6-C6-C5	-2.27	120.55	126.53
47	WK	501	GTP	O6-C6-C5	-2.27	120.55	126.53
47	VC	501	GTP	O6-C6-C5	-2.27	120.55	126.53
47	BA	501	GTP	O6-C6-C5	-2.26	120.56	126.53
47	CE	501	GTP	O6-C6-C5	-2.26	120.57	126.53
49	BL	501	GDP	C3'-C2'-C1'	2.26	105.73	101.46
49	EJ	501	GDP	C3'-C2'-C1'	2.26	105.73	101.46
49	SJ	501	GDP	O6-C6-C5	-2.25	120.58	126.53
49	MN	501	GDP	C3'-C2'-C1'	2.25	105.73	101.46
49	RF	501	GDP	C3'-C2'-C1'	2.25	105.72	101.46
49	SF	501	GDP	O6-C6-C5	-2.25	120.59	126.53
49	EF	501	GDP	C3'-C2'-C1'	2.25	105.72	101.46
49	VL	501	GDP	C3'-C2'-C1'	2.25	105.72	101.46
47	HK	501	GTP	O6-C6-C5	-2.25	120.60	126.53
49	RD	501	GDP	C3'-C2'-C1'	2.25	105.72	101.46
47	PE	501	GTP	O6-C6-C5	-2.25	120.60	126.53
47	PI	501	GTP	O6-C6-C5	-2.25	120.61	126.53
49	ND	502	GDP	C3'-C2'-C1'	2.24	105.71	101.46
47	HC	501	GTP	O6-C6-C5	-2.24	120.61	126.53
47	EM	501	GTP	O6-C6-C5	-2.24	120.62	126.53
49	AH	501	GDP	O6-C6-C5	-2.24	120.62	126.53
47	JI	501	GTP	O6-C6-C5	-2.24	120.63	126.53
49	KB	501	GDP	C3'-C2'-C1'	2.23	105.69	101.46
49	AJ	501	GDP	C4-C5-N7	-2.23	107.14	110.67
49	GH	501	GDP	O6-C6-C5	-2.23	120.65	126.53
49	DJ	501	GDP	C3'-C2'-C1'	2.23	105.68	101.46
49	QJ	501	GDP	C3'-C2'-C1'	2.23	105.68	101.46
49	MH	501	GDP	O6-C6-C5	-2.23	120.65	126.53
49	SB	501	GDP	O6-C6-C5	-2.22	120.67	126.53
49	IF	501	GDP	C3'-C2'-C1'	2.22	105.67	101.46
47	RM	501	GTP	O6-C6-C5	-2.22	120.67	126.53
49	BH	501	GDP	C3'-C2'-C1'	2.21	105.64	101.46
49	FF	501	GDP	C3'-C2'-C1'	2.21	105.64	101.46
49	AD	501	GDP	O6-C6-C5	-2.21	120.71	126.53
49	QJ	501	GDP	O6-C6-C5	-2.21	120.71	126.53
49	FJ	501	GDP	O6-C6-C5	-2.21	120.71	126.53
49	BD	501	GDP	C3'-C2'-C1'	2.20	105.63	101.46
49	EF	501	GDP	O6-C6-C5	-2.20	120.72	126.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
49	FN	501	GDP	O6-C6-C5	-2.20	120.72	126.53
49	CH	501	GDP	C3'-C2'-C1'	2.20	105.63	101.46
49	ML	501	GDP	C3'-C2'-C1'	2.20	105.63	101.46
49	WJ	501	GDP	C2'-C1'-N9	-2.20	107.13	113.25
49	ED	501	GDP	O6-C6-C5	-2.20	120.73	126.53
49	TB	501	GDP	O6-C6-C5	-2.20	120.74	126.53
49	FJ	501	GDP	C3'-C2'-C1'	2.19	105.61	101.46
49	IJ	501	GDP	C3'-C2'-C1'	2.19	105.61	101.46
49	QF	501	GDP	O6-C6-C5	-2.19	120.75	126.53
47	IE	501	GTP	C3'-C2'-C1'	2.19	105.61	101.46
49	PN	502	GDP	C3'-C2'-C1'	2.19	105.61	101.46
49	NJ	501	GDP	O6-C6-C5	-2.19	120.75	126.53
49	GD	501	GDP	C3'-C2'-C1'	2.19	105.61	101.46
49	OD	501	GDP	C3'-C2'-C1'	2.19	105.60	101.46
49	QF	501	GDP	C3'-C2'-C1'	2.19	105.60	101.46
49	GJ	501	GDP	O6-C6-C5	-2.19	120.76	126.53
49	SD	501	GDP	O6-C6-C5	-2.18	120.77	126.53
49	RF	501	GDP	O6-C6-C5	-2.18	120.77	126.53
49	AF	501	GDP	O6-C6-C5	-2.18	120.78	126.53
49	NH	501	GDP	C3'-C2'-C1'	2.18	105.59	101.46
49	RH	501	GDP	O6-C6-C5	-2.18	120.78	126.53
47	KE	501	GTP	C3'-C2'-C1'	2.17	105.58	101.46
47	TE	501	GTP	C3'-C2'-C1'	2.17	105.58	101.46
49	RJ	501	GDP	C3'-C2'-C1'	2.17	105.57	101.46
49	GJ	501	GDP	C3'-C2'-C1'	2.17	105.57	101.46
47	UA	501	GTP	C3'-C2'-C1'	2.17	105.56	101.46
49	GN	502	GDP	O6-C6-C5	-2.16	120.82	126.53
49	UD	501	GDP	C3'-C2'-C1'	2.16	105.56	101.46
49	AL	501	GDP	O6-C6-C5	-2.16	120.82	126.53
49	IF	501	GDP	O6-C6-C5	-2.16	120.83	126.53
49	SH	501	GDP	C3'-C2'-C1'	2.16	105.55	101.46
47	BK	501	GTP	C3'-C2'-C1'	2.16	105.55	101.46
47	CI	501	GTP	O2B-PB-O3B	2.16	113.11	107.27
49	QH	501	GDP	C3'-C2'-C1'	2.16	105.55	101.46
49	AN	501	GDP	O6-C6-C5	-2.16	120.83	126.53
49	DD	501	GDP	O6-C6-C5	-2.16	120.84	126.53
47	SA	501	GTP	C3'-C2'-C1'	2.16	105.54	101.46
49	GF	501	GDP	O6-C6-C5	-2.16	120.84	126.53
47	UM	501	GTP	C3'-C2'-C1'	2.16	105.54	101.46
47	VM	501	GTP	C3'-C2'-C1'	2.15	105.54	101.46
49	BL	501	GDP	O6-C6-C5	-2.15	120.85	126.53
47	QA	501	GTP	C3'-C2'-C1'	2.15	105.54	101.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
49	LN	501	GDP	O6-C6-C5	-2.15	120.85	126.53
49	KN	501	GDP	O6-C6-C5	-2.15	120.85	126.53
47	TA	501	GTP	C3'-C2'-C1'	2.15	105.53	101.46
49	TF	501	GDP	O6-C6-C5	-2.15	120.85	126.53
47	GM	501	GTP	C3'-C2'-C1'	2.15	105.53	101.46
49	WB	501	GDP	O6-C6-C5	-2.15	120.86	126.53
47	EC	501	GTP	C3'-C2'-C1'	2.15	105.53	101.46
49	QD	501	GDP	C3'-C2'-C1'	2.15	105.53	101.46
49	TH	501	GDP	O6-C6-C5	-2.15	120.86	126.53
49	EH	501	GDP	O2B-PB-O3A	2.15	111.84	104.64
49	ML	501	GDP	O6-C6-C5	-2.15	120.86	126.53
49	NF	501	GDP	O6-C6-C5	-2.15	120.87	126.53
49	BJ	501	GDP	O6-C6-C5	-2.15	120.87	126.53
49	GH	501	GDP	C3'-C2'-C1'	2.14	105.52	101.46
49	ND	502	GDP	O6-C6-C5	-2.14	120.88	126.53
49	LH	501	GDP	O6-C6-C5	-2.14	120.88	126.53
49	MN	501	GDP	O6-C6-C5	-2.14	120.88	126.53
49	NN	501	GDP	O6-C6-C5	-2.14	120.88	126.53
49	IH	501	GDP	O6-C6-C5	-2.14	120.88	126.53
49	LL	501	GDP	O6-C6-C5	-2.14	120.89	126.53
49	EB	501	GDP	O6-C6-C5	-2.14	120.89	126.53
47	EA	501	GTP	C3'-C2'-C1'	2.14	105.50	101.46
49	GD	501	GDP	O6-C6-C5	-2.14	120.89	126.53
47	CA	501	GTP	C3'-C2'-C1'	2.14	105.50	101.46
49	EH	501	GDP	O6-C6-C5	-2.14	120.89	126.53
49	PN	502	GDP	O6-C6-C5	-2.14	120.89	126.53
49	MD	501	GDP	O6-C6-C5	-2.13	120.90	126.53
49	FL	502	GDP	C3'-C2'-C1'	2.13	105.50	101.46
49	LD	501	GDP	O6-C6-C5	-2.13	120.90	126.53
49	SJ	501	GDP	C2'-C3'-C4'	2.13	106.73	102.61
47	DE	501	GTP	C3'-C2'-C1'	2.13	105.50	101.46
47	RA	501	GTP	C3'-C2'-C1'	2.13	105.50	101.46
49	WN	501	GDP	O6-C6-C5	-2.13	120.90	126.53
49	LH	501	GDP	C3'-C2'-C1'	2.13	105.50	101.46
49	BN	501	GDP	O6-C6-C5	-2.13	120.91	126.53
49	LJ	501	GDP	O6-C6-C5	-2.13	120.91	126.53
47	DK	501	GTP	C3'-C2'-C1'	2.13	105.49	101.46
49	DJ	501	GDP	O6-C6-C5	-2.13	120.91	126.53
49	NL	501	GDP	O6-C6-C5	-2.13	120.91	126.53
49	WD	501	GDP	C3'-C2'-C1'	2.13	105.49	101.46
49	KH	501	GDP	O6-C6-C5	-2.13	120.92	126.53
49	MB	501	GDP	O6-C6-C5	-2.13	120.92	126.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
49	JN	501	GDP	O6-C6-C5	-2.13	120.92	126.53
49	DL	501	GDP	O6-C6-C5	-2.13	120.92	126.53
49	NH	501	GDP	O6-C6-C5	-2.13	120.92	126.53
47	JA	501	GTP	C3'-C2'-C1'	2.13	105.48	101.46
47	EE	501	GTP	C3'-C2'-C1'	2.13	105.48	101.46
49	MJ	501	GDP	O6-C6-C5	-2.12	120.92	126.53
47	AI	501	GTP	C3'-C2'-C1'	2.12	105.48	101.46
49	MF	501	GDP	O6-C6-C5	-2.12	120.93	126.53
47	AG	501	GTP	C3'-C2'-C1'	2.12	105.48	101.46
49	GF	501	GDP	C3'-C2'-C1'	2.12	105.48	101.46
49	FH	501	GDP	O6-C6-C5	-2.12	120.93	126.53
47	CM	501	GTP	C3'-C2'-C1'	2.12	105.48	101.46
49	TD	501	GDP	O6-C6-C5	-2.12	120.93	126.53
49	KL	501	GDP	C3'-C2'-C1'	2.12	105.48	101.46
49	SH	501	GDP	O6-C6-C5	-2.12	120.93	126.53
49	DF	501	GDP	O6-C6-C5	-2.12	120.93	126.53
47	PA	501	GTP	C3'-C2'-C1'	2.12	105.47	101.46
49	OJ	501	GDP	O6-C6-C5	-2.12	120.94	126.53
47	BG	501	GTP	C3'-C2'-C1'	2.12	105.47	101.46
49	UN	501	GDP	O6-C6-C5	-2.12	120.94	126.53
49	KL	501	GDP	O6-C6-C5	-2.12	120.94	126.53
47	DA	501	GTP	C3'-C2'-C1'	2.12	105.47	101.46
49	IJ	501	GDP	O6-C6-C5	-2.12	120.94	126.53
49	GL	502	GDP	O6-C6-C5	-2.11	120.95	126.53
49	CH	501	GDP	O6-C6-C5	-2.11	120.95	126.53
47	SM	501	GTP	C3'-C2'-C1'	2.11	105.46	101.46
47	FK	501	GTP	C3'-C2'-C1'	2.11	105.46	101.46
49	LL	501	GDP	C3'-C2'-C1'	2.11	105.46	101.46
49	DB	501	GDP	O6-C6-C5	-2.11	120.96	126.53
49	RL	501	GDP	O6-C6-C5	-2.11	120.96	126.53
49	LB	501	GDP	O6-C6-C5	-2.11	120.97	126.53
49	WL	501	GDP	O6-C6-C5	-2.11	120.97	126.53
49	IB	501	GDP	O6-C6-C5	-2.11	120.97	126.53
49	TJ	501	GDP	O6-C6-C5	-2.11	120.97	126.53
47	FM	501	GTP	C3'-C2'-C1'	2.11	105.45	101.46
49	BH	501	GDP	C2'-C3'-C4'	2.11	106.68	102.61
49	RD	501	GDP	O6-C6-C5	-2.11	120.97	126.53
47	TM	501	GTP	C3'-C2'-C1'	2.11	105.45	101.46
49	PJ	501	GDP	C3'-C2'-C1'	2.11	105.45	101.46
47	MC	501	GTP	C3'-C2'-C1'	2.11	105.45	101.46
47	UG	501	GTP	C3'-C2'-C1'	2.11	105.45	101.46
49	CD	501	GDP	O6-C6-C5	-2.11	120.97	126.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
49	PD	502	GDP	O6-C6-C5	-2.11	120.98	126.53
49	DH	501	GDP	C3'-C2'-C1'	2.10	105.44	101.46
49	HB	501	GDP	O6-C6-C5	-2.10	120.98	126.53
49	IL	501	GDP	O6-C6-C5	-2.10	120.98	126.53
49	SN	501	GDP	O6-C6-C5	-2.10	120.98	126.53
49	VN	501	GDP	O6-C6-C5	-2.10	120.98	126.53
49	HH	501	GDP	O6-C6-C5	-2.10	120.99	126.53
49	OF	502	GDP	O6-C6-C5	-2.10	120.99	126.53
49	GB	502	GDP	O6-C6-C5	-2.10	120.99	126.53
49	JH	501	GDP	O6-C6-C5	-2.10	120.99	126.53
49	KD	501	GDP	O6-C6-C5	-2.10	120.99	126.53
49	RN	501	GDP	O6-C6-C5	-2.10	120.99	126.53
49	DF	501	GDP	C3'-C2'-C1'	2.10	105.43	101.46
49	IN	501	GDP	O6-C6-C5	-2.10	120.99	126.53
47	JM	501	GTP	C3'-C2'-C1'	2.10	105.43	101.46
49	MJ	501	GDP	C2'-C3'-C4'	2.10	106.66	102.61
49	CN	501	GDP	O6-C6-C5	-2.10	121.00	126.53
49	BB	501	GDP	O6-C6-C5	-2.10	121.00	126.53
49	PB	501	GDP	O6-C6-C5	-2.10	121.00	126.53
49	OH	501	GDP	O6-C6-C5	-2.10	121.00	126.53
47	HA	501	GTP	C3'-C2'-C1'	2.10	105.43	101.46
49	HL	501	GDP	C3'-C2'-C1'	2.10	105.43	101.46
49	UB	501	GDP	O6-C6-C5	-2.09	121.00	126.53
49	HF	501	GDP	O6-C6-C5	-2.09	121.00	126.53
49	ON	501	GDP	O6-C6-C5	-2.09	121.00	126.53
47	CI	501	GTP	C3'-C2'-C1'	2.09	105.42	101.46
49	CJ	501	GDP	C3'-C2'-C1'	2.09	105.42	101.46
49	FF	501	GDP	O6-C6-C5	-2.09	121.01	126.53
49	QB	501	GDP	O6-C6-C5	-2.09	121.01	126.53
47	IK	501	GTP	C3'-C2'-C1'	2.09	105.42	101.46
49	VD	501	GDP	C3'-C2'-C1'	2.09	105.42	101.46
49	TL	501	GDP	O6-C6-C5	-2.09	121.01	126.53
49	LF	501	GDP	O6-C6-C5	-2.09	121.02	126.53
47	GA	501	GTP	C3'-C2'-C1'	2.09	105.42	101.46
49	DN	501	GDP	O6-C6-C5	-2.09	121.02	126.53
49	RB	501	GDP	C3'-C2'-C1'	2.09	105.42	101.46
49	TN	501	GDP	O6-C6-C5	-2.09	121.02	126.53
49	QL	501	GDP	O6-C6-C5	-2.09	121.02	126.53
49	RJ	501	GDP	O6-C6-C5	-2.09	121.02	126.53
49	PH	501	GDP	O6-C6-C5	-2.09	121.02	126.53
49	WD	501	GDP	O6-C6-C5	-2.09	121.03	126.53
47	WC	501	GTP	C3'-C2'-C1'	2.09	105.41	101.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	CK	501	GTP	C3'-C2'-C1'	2.08	105.41	101.46
49	FB	501	GDP	O6-C6-C5	-2.08	121.03	126.53
47	IA	501	GTP	C3'-C2'-C1'	2.08	105.41	101.46
49	QH	501	GDP	O6-C6-C5	-2.08	121.04	126.53
47	QM	501	GTP	C3'-C2'-C1'	2.08	105.40	101.46
49	HN	501	GDP	O6-C6-C5	-2.08	121.04	126.53
49	FD	501	GDP	O6-C6-C5	-2.08	121.04	126.53
47	BI	501	GTP	C3'-C2'-C1'	2.08	105.40	101.46
47	AE	501	GTP	C3'-C2'-C1'	2.08	105.40	101.46
47	AM	501	GTP	C3'-C2'-C1'	2.08	105.40	101.46
47	IG	501	GTP	C3'-C2'-C1'	2.08	105.40	101.46
49	BH	501	GDP	O6-C6-C5	-2.08	121.04	126.53
49	HD	501	GDP	O6-C6-C5	-2.08	121.04	126.53
49	QN	501	GDP	O6-C6-C5	-2.08	121.05	126.53
47	FG	501	GTP	C3'-C2'-C1'	2.08	105.39	101.46
47	JE	501	GTP	C3'-C2'-C1'	2.08	105.39	101.46
49	BF	501	GDP	O6-C6-C5	-2.08	121.05	126.53
49	VL	501	GDP	O6-C6-C5	-2.08	121.05	126.53
49	WJ	501	GDP	O6-C6-C5	-2.08	121.05	126.53
49	EL	501	GDP	O6-C6-C5	-2.08	121.05	126.53
49	HL	501	GDP	O6-C6-C5	-2.08	121.06	126.53
49	WF	501	GDP	O6-C6-C5	-2.08	121.06	126.53
47	BC	502	GTP	C3'-C2'-C1'	2.07	105.39	101.46
47	PG	501	GTP	C3'-C2'-C1'	2.07	105.38	101.46
49	KH	501	GDP	C5-C6-N1	2.07	118.53	113.25
49	KF	501	GDP	O6-C6-C5	-2.07	121.07	126.53
49	AJ	501	GDP	C3'-C2'-C1'	2.07	105.38	101.46
47	HM	501	GTP	C3'-C2'-C1'	2.07	105.38	101.46
49	SJ	501	GDP	C3'-C2'-C1'	2.07	105.38	101.46
47	EI	501	GTP	C3'-C2'-C1'	2.07	105.38	101.46
47	UE	501	GTP	C3'-C2'-C1'	2.07	105.38	101.46
49	BD	501	GDP	O6-C6-C5	-2.07	121.07	126.53
49	PJ	501	GDP	O6-C6-C5	-2.07	121.07	126.53
49	FL	502	GDP	O6-C6-C5	-2.07	121.07	126.53
49	PL	501	GDP	O6-C6-C5	-2.07	121.07	126.53
49	IL	501	GDP	C3'-C2'-C1'	2.07	105.37	101.46
49	LJ	501	GDP	C3'-C2'-C1'	2.07	105.37	101.46
49	JB	501	GDP	O6-C6-C5	-2.07	121.08	126.53
47	AC	501	GTP	C3'-C2'-C1'	2.07	105.37	101.46
49	NB	501	GDP	O6-C6-C5	-2.07	121.08	126.53
49	VB	501	GDP	O6-C6-C5	-2.06	121.08	126.53
47	UC	501	GTP	C3'-C2'-C1'	2.06	105.37	101.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
49	JJ	501	GDP	O6-C6-C5	-2.06	121.08	126.53
47	MG	501	GTP	C3'-C2'-C1'	2.06	105.37	101.46
49	QD	501	GDP	O6-C6-C5	-2.06	121.09	126.53
47	WM	501	GTP	C3'-C2'-C1'	2.06	105.36	101.46
47	JG	501	GTP	C3'-C2'-C1'	2.06	105.36	101.46
47	DC	501	GTP	C3'-C2'-C1'	2.06	105.36	101.46
49	JL	501	GDP	O6-C6-C5	-2.06	121.10	126.53
49	KD	501	GDP	C2'-C3'-C4'	2.06	106.58	102.61
49	JJ	501	GDP	C3'-C2'-C1'	2.06	105.35	101.46
49	VJ	501	GDP	O6-C6-C5	-2.05	121.11	126.53
47	BM	501	GTP	C3'-C2'-C1'	2.05	105.35	101.46
49	OL	501	GDP	O6-C6-C5	-2.05	121.11	126.53
47	BA	501	GTP	C3'-C2'-C1'	2.05	105.35	101.46
47	VG	501	GTP	C3'-C2'-C1'	2.05	105.35	101.46
49	UF	501	GDP	O6-C6-C5	-2.05	121.11	126.53
47	PK	501	GTP	C3'-C2'-C1'	2.05	105.34	101.46
49	JD	501	GDP	O6-C6-C5	-2.05	121.12	126.53
49	OD	501	GDP	O6-C6-C5	-2.05	121.12	126.53
49	RH	501	GDP	C3'-C2'-C1'	2.05	105.34	101.46
47	KC	501	GTP	C3'-C2'-C1'	2.05	105.34	101.46
49	UD	501	GDP	O6-C6-C5	-2.05	121.12	126.53
49	VH	501	GDP	O6-C6-C5	-2.05	121.12	126.53
49	PF	501	GDP	O6-C6-C5	-2.05	121.13	126.53
47	DG	501	GTP	C3'-C2'-C1'	2.05	105.33	101.46
49	ID	501	GDP	O6-C6-C5	-2.05	121.13	126.53
47	KI	501	GTP	C3'-C2'-C1'	2.05	105.33	101.46
47	TI	501	GTP	C3'-C2'-C1'	2.04	105.33	101.46
47	LA	501	GTP	C3'-C2'-C1'	2.04	105.33	101.46
47	WG	501	GTP	C3'-C2'-C1'	2.04	105.33	101.46
49	SH	501	GDP	C2'-C3'-C4'	2.04	106.56	102.61
47	KG	501	GTP	C3'-C2'-C1'	2.04	105.33	101.46
49	CB	501	GDP	O6-C6-C5	-2.04	121.14	126.53
47	NA	501	GTP	C3'-C2'-C1'	2.04	105.33	101.46
49	IH	501	GDP	C3'-C2'-C1'	2.04	105.33	101.46
49	CL	501	GDP	O6-C6-C5	-2.04	121.14	126.53
47	UK	501	GTP	C3'-C2'-C1'	2.04	105.32	101.46
47	RK	501	GTP	C3'-C2'-C1'	2.04	105.32	101.46
47	QC	501	GTP	C3'-C2'-C1'	2.04	105.32	101.46
49	MF	501	GDP	C3'-C2'-C1'	2.04	105.32	101.46
49	JF	501	GDP	O6-C6-C5	-2.03	121.16	126.53
49	CF	501	GDP	O6-C6-C5	-2.03	121.16	126.53
47	FE	501	GTP	C3'-C2'-C1'	2.03	105.31	101.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	CC	501	GTP	C3'-C2'-C1'	2.03	105.31	101.46
49	CF	501	GDP	C3'-C2'-C1'	2.03	105.31	101.46
49	AJ	501	GDP	C5-C6-N1	2.03	118.42	113.25
49	WH	501	GDP	O6-C6-C5	-2.03	121.18	126.53
47	EG	501	GTP	C3'-C2'-C1'	2.03	105.30	101.46
49	DH	501	GDP	O6-C6-C5	-2.03	121.18	126.53
47	GI	501	GTP	C3'-C2'-C1'	2.03	105.30	101.46
47	JI	501	GTP	C3'-C2'-C1'	2.03	105.30	101.46
49	RB	501	GDP	C5-C6-N1	2.03	118.41	113.25
47	SG	501	GTP	C3'-C2'-C1'	2.03	105.30	101.46
49	LF	501	GDP	C2'-C3'-C4'	2.03	106.52	102.61
49	CJ	501	GDP	O6-C6-C5	-2.03	121.19	126.53
47	IC	501	GTP	C3'-C2'-C1'	2.02	105.29	101.46
47	NK	501	GTP	C3'-C2'-C1'	2.02	105.29	101.46
47	II	501	GTP	C3'-C2'-C1'	2.02	105.29	101.46
47	HG	501	GTP	C3'-C2'-C1'	2.02	105.29	101.46
47	IG	501	GTP	O2B-PB-O3B	2.02	112.74	107.27
47	QI	501	GTP	C3'-C2'-C1'	2.02	105.29	101.46
49	UJ	501	GDP	O6-C6-C5	-2.02	121.19	126.53
47	TK	501	GTP	C3'-C2'-C1'	2.02	105.29	101.46
49	UL	501	GDP	O6-C6-C5	-2.02	121.20	126.53
47	PD	501	GTP	C3'-C2'-C1'	2.02	105.29	101.46
47	VK	501	GTP	C3'-C2'-C1'	2.02	105.28	101.46
49	OB	501	GDP	O6-C6-C5	-2.02	121.20	126.53
49	UH	501	GDP	O6-C6-C5	-2.02	121.20	126.53
49	VF	501	GDP	O6-C6-C5	-2.02	121.20	126.53
49	PH	501	GDP	C3'-C2'-C1'	2.02	105.28	101.46
47	GC	501	GTP	C3'-C2'-C1'	2.02	105.28	101.46
47	WE	501	GTP	C3'-C2'-C1'	2.02	105.28	101.46
49	GH	501	GDP	C5-C6-N1	2.02	118.38	113.25
47	PM	501	GTP	C3'-C2'-C1'	2.01	105.27	101.46
47	SI	501	GTP	C3'-C2'-C1'	2.01	105.27	101.46
47	ME	501	GTP	C3'-C2'-C1'	2.01	105.27	101.46
47	GE	501	GTP	C3'-C2'-C1'	2.01	105.27	101.46
49	KH	501	GDP	C2'-C3'-C4'	2.01	106.49	102.61
49	WH	501	GDP	C2'-C3'-C4'	2.01	106.49	102.61
47	QG	501	GTP	O3G-PG-O3B	2.01	111.37	104.64
47	MI	501	GTP	C3'-C2'-C1'	2.01	105.26	101.46
47	RC	501	GTP	C3'-C2'-C1'	2.01	105.26	101.46
47	IM	501	GTP	C3'-C2'-C1'	2.01	105.26	101.46
47	NM	501	GTP	C3'-C2'-C1'	2.00	105.25	101.46
49	BF	501	GDP	C3'-C2'-C1'	2.00	105.25	101.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	VA	501	GTP	C3'-C2'-C1'	2.00	105.25	101.46
49	FH	501	GDP	C3'-C2'-C1'	2.00	105.25	101.46
47	JK	501	GTP	C3'-C2'-C1'	2.00	105.25	101.46
47	LM	501	GTP	C3'-C2'-C1'	2.00	105.25	101.46
47	MK	501	GTP	C3'-C2'-C1'	2.00	105.25	101.46
47	CE	501	GTP	C3'-C2'-C1'	2.00	105.25	101.46
47	UI	501	GTP	C3'-C2'-C1'	2.00	105.25	101.46

There are no chirality outliers.

All (1310) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
47	AA	501	GTP	C5'-O5'-PA-O3A
47	AA	501	GTP	C5'-O5'-PA-O2A
47	AC	501	GTP	C5'-O5'-PA-O3A
47	AC	501	GTP	C5'-O5'-PA-O1A
47	AC	501	GTP	C5'-O5'-PA-O2A
47	AE	501	GTP	PB-O3A-PA-O5'
47	AE	501	GTP	C5'-O5'-PA-O3A
47	AE	501	GTP	C5'-O5'-PA-O1A
47	AE	501	GTP	C5'-O5'-PA-O2A
47	AG	501	GTP	C5'-O5'-PA-O3A
47	AG	501	GTP	C5'-O5'-PA-O1A
47	AG	501	GTP	C5'-O5'-PA-O2A
47	AI	501	GTP	C5'-O5'-PA-O3A
47	AI	501	GTP	C5'-O5'-PA-O1A
47	AI	501	GTP	C5'-O5'-PA-O2A
47	AK	501	GTP	C5'-O5'-PA-O3A
47	AK	501	GTP	C5'-O5'-PA-O2A
47	AM	501	GTP	C5'-O5'-PA-O3A
47	AM	501	GTP	C5'-O5'-PA-O2A
47	BA	501	GTP	C5'-O5'-PA-O3A
47	BA	501	GTP	C5'-O5'-PA-O1A
47	BA	501	GTP	C5'-O5'-PA-O2A
47	BC	502	GTP	PB-O3A-PA-O5'
47	BC	502	GTP	C5'-O5'-PA-O3A
47	BC	502	GTP	C5'-O5'-PA-O1A
47	BC	502	GTP	C5'-O5'-PA-O2A
47	BE	501	GTP	PB-O3A-PA-O5'
47	BE	501	GTP	C5'-O5'-PA-O3A
47	BE	501	GTP	C5'-O5'-PA-O1A
47	BE	501	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
47	BG	501	GTP	PB-O3A-PA-O5'
47	BG	501	GTP	C5'-O5'-PA-O3A
47	BG	501	GTP	C5'-O5'-PA-O1A
47	BG	501	GTP	C5'-O5'-PA-O2A
47	BI	501	GTP	C5'-O5'-PA-O3A
47	BI	501	GTP	C5'-O5'-PA-O1A
47	BI	501	GTP	C5'-O5'-PA-O2A
47	BK	501	GTP	PB-O3A-PA-O5'
47	BK	501	GTP	C5'-O5'-PA-O3A
47	BK	501	GTP	C5'-O5'-PA-O1A
47	BK	501	GTP	C5'-O5'-PA-O2A
47	BM	501	GTP	C5'-O5'-PA-O3A
47	BM	501	GTP	C5'-O5'-PA-O1A
47	BM	501	GTP	C5'-O5'-PA-O2A
47	CA	501	GTP	C5'-O5'-PA-O3A
47	CA	501	GTP	C5'-O5'-PA-O2A
47	CC	501	GTP	C5'-O5'-PA-O3A
47	CC	501	GTP	C5'-O5'-PA-O2A
47	CG	501	GTP	PB-O3A-PA-O5'
47	CG	501	GTP	C5'-O5'-PA-O3A
47	CG	501	GTP	C5'-O5'-PA-O2A
47	CI	501	GTP	C5'-O5'-PA-O3A
47	CI	501	GTP	C5'-O5'-PA-O2A
47	CK	501	GTP	C5'-O5'-PA-O3A
47	CK	501	GTP	C5'-O5'-PA-O1A
47	CK	501	GTP	C5'-O5'-PA-O2A
47	CK	501	GTP	O4'-C4'-C5'-O5'
47	CM	501	GTP	C5'-O5'-PA-O3A
47	CM	501	GTP	C5'-O5'-PA-O1A
47	CM	501	GTP	C5'-O5'-PA-O2A
47	DA	501	GTP	C5'-O5'-PA-O3A
47	DA	501	GTP	C5'-O5'-PA-O1A
47	DA	501	GTP	C5'-O5'-PA-O2A
47	DE	501	GTP	C5'-O5'-PA-O3A
47	DE	501	GTP	C5'-O5'-PA-O2A
47	DG	501	GTP	C5'-O5'-PA-O3A
47	DG	501	GTP	C5'-O5'-PA-O1A
47	DG	501	GTP	C5'-O5'-PA-O2A
47	DI	501	GTP	C5'-O5'-PA-O3A
47	DI	501	GTP	C5'-O5'-PA-O1A
47	DI	501	GTP	C5'-O5'-PA-O2A
47	DK	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
47	DM	501	GTP	C5'-O5'-PA-O3A
47	DM	501	GTP	C5'-O5'-PA-O1A
47	DM	501	GTP	C5'-O5'-PA-O2A
47	EA	501	GTP	C5'-O5'-PA-O3A
47	EA	501	GTP	C5'-O5'-PA-O2A
47	EC	501	GTP	C5'-O5'-PA-O3A
47	EC	501	GTP	C5'-O5'-PA-O1A
47	EC	501	GTP	C5'-O5'-PA-O2A
47	EE	501	GTP	C5'-O5'-PA-O3A
47	EE	501	GTP	C5'-O5'-PA-O1A
47	EE	501	GTP	C5'-O5'-PA-O2A
47	EG	501	GTP	C5'-O5'-PA-O3A
47	EG	501	GTP	C5'-O5'-PA-O2A
47	EI	501	GTP	C5'-O5'-PA-O3A
47	EI	501	GTP	C5'-O5'-PA-O1A
47	EI	501	GTP	C5'-O5'-PA-O2A
47	EK	501	GTP	C5'-O5'-PA-O3A
47	EK	501	GTP	C5'-O5'-PA-O2A
47	EM	501	GTP	C5'-O5'-PA-O3A
47	EM	501	GTP	C5'-O5'-PA-O1A
47	EM	501	GTP	C5'-O5'-PA-O2A
47	FA	501	GTP	C5'-O5'-PA-O3A
47	FA	501	GTP	C5'-O5'-PA-O1A
47	FA	501	GTP	C5'-O5'-PA-O2A
47	FC	501	GTP	C5'-O5'-PA-O3A
47	FC	501	GTP	C5'-O5'-PA-O1A
47	FC	501	GTP	C5'-O5'-PA-O2A
47	FE	501	GTP	PB-O3A-PA-O5'
47	FE	501	GTP	C5'-O5'-PA-O3A
47	FE	501	GTP	C5'-O5'-PA-O1A
47	FE	501	GTP	C5'-O5'-PA-O2A
47	FG	501	GTP	C5'-O5'-PA-O3A
47	FG	501	GTP	C5'-O5'-PA-O1A
47	FG	501	GTP	C5'-O5'-PA-O2A
47	FI	501	GTP	C5'-O5'-PA-O3A
47	FI	501	GTP	C5'-O5'-PA-O1A
47	FI	501	GTP	C5'-O5'-PA-O2A
47	FK	501	GTP	PB-O3A-PA-O5'
47	FK	501	GTP	C5'-O5'-PA-O3A
47	FK	501	GTP	C5'-O5'-PA-O2A
47	FM	501	GTP	PB-O3A-PA-O5'
47	FM	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
47	FM	501	GTP	C5'-O5'-PA-O2A
47	GA	501	GTP	C5'-O5'-PA-O3A
47	GA	501	GTP	C5'-O5'-PA-O1A
47	GA	501	GTP	C5'-O5'-PA-O2A
47	GC	501	GTP	C5'-O5'-PA-O3A
47	GC	501	GTP	C5'-O5'-PA-O1A
47	GC	501	GTP	C5'-O5'-PA-O2A
47	GE	501	GTP	C5'-O5'-PA-O3A
47	GE	501	GTP	C5'-O5'-PA-O1A
47	GE	501	GTP	C5'-O5'-PA-O2A
47	GG	501	GTP	C5'-O5'-PA-O3A
47	GG	501	GTP	C5'-O5'-PA-O1A
47	GG	501	GTP	C5'-O5'-PA-O2A
47	GI	501	GTP	PB-O3A-PA-O5'
47	GI	501	GTP	C5'-O5'-PA-O3A
47	GI	501	GTP	C5'-O5'-PA-O1A
47	GI	501	GTP	C5'-O5'-PA-O2A
47	GK	501	GTP	C5'-O5'-PA-O3A
47	GK	501	GTP	C5'-O5'-PA-O2A
47	GM	501	GTP	C5'-O5'-PA-O3A
47	GM	501	GTP	C5'-O5'-PA-O1A
47	GM	501	GTP	C5'-O5'-PA-O2A
47	HA	501	GTP	C5'-O5'-PA-O3A
47	HA	501	GTP	C5'-O5'-PA-O1A
47	HA	501	GTP	C5'-O5'-PA-O2A
47	HC	501	GTP	C5'-O5'-PA-O3A
47	HC	501	GTP	C5'-O5'-PA-O1A
47	HC	501	GTP	C5'-O5'-PA-O2A
47	HE	501	GTP	PB-O3A-PA-O5'
47	HE	501	GTP	C5'-O5'-PA-O3A
47	HE	501	GTP	C5'-O5'-PA-O1A
47	HE	501	GTP	C5'-O5'-PA-O2A
47	HG	501	GTP	C5'-O5'-PA-O3A
47	HG	501	GTP	C5'-O5'-PA-O2A
47	HI	501	GTP	C5'-O5'-PA-O3A
47	HI	501	GTP	C5'-O5'-PA-O1A
47	HI	501	GTP	C5'-O5'-PA-O2A
47	HK	501	GTP	C5'-O5'-PA-O3A
47	HK	501	GTP	C5'-O5'-PA-O1A
47	HK	501	GTP	C5'-O5'-PA-O2A
47	HM	501	GTP	C5'-O5'-PA-O3A
47	HM	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
47	HM	501	GTP	C5'-O5'-PA-O2A
47	IA	501	GTP	C5'-O5'-PA-O3A
47	IA	501	GTP	C5'-O5'-PA-O1A
47	IA	501	GTP	C5'-O5'-PA-O2A
47	IC	501	GTP	PB-O3A-PA-O5'
47	IC	501	GTP	C5'-O5'-PA-O3A
47	IC	501	GTP	C5'-O5'-PA-O1A
47	IC	501	GTP	C5'-O5'-PA-O2A
47	IE	501	GTP	C5'-O5'-PA-O3A
47	IE	501	GTP	C5'-O5'-PA-O1A
47	IE	501	GTP	C5'-O5'-PA-O2A
47	IG	501	GTP	C5'-O5'-PA-O3A
47	IG	501	GTP	C5'-O5'-PA-O2A
47	II	501	GTP	C5'-O5'-PA-O3A
47	II	501	GTP	C5'-O5'-PA-O1A
47	II	501	GTP	C5'-O5'-PA-O2A
47	IK	501	GTP	C5'-O5'-PA-O3A
47	IK	501	GTP	C5'-O5'-PA-O1A
47	IK	501	GTP	C5'-O5'-PA-O2A
47	IM	501	GTP	C5'-O5'-PA-O3A
47	IM	501	GTP	C5'-O5'-PA-O2A
47	JA	501	GTP	C5'-O5'-PA-O3A
47	JA	501	GTP	C5'-O5'-PA-O2A
47	JE	501	GTP	C5'-O5'-PA-O3A
47	JE	501	GTP	C5'-O5'-PA-O2A
47	JG	501	GTP	C5'-O5'-PA-O3A
47	JG	501	GTP	C5'-O5'-PA-O2A
47	JI	501	GTP	C5'-O5'-PA-O3A
47	JI	501	GTP	C5'-O5'-PA-O2A
47	JK	501	GTP	C5'-O5'-PA-O3A
47	JM	501	GTP	C5'-O5'-PA-O3A
47	JM	501	GTP	C5'-O5'-PA-O1A
47	JM	501	GTP	C5'-O5'-PA-O2A
47	KA	501	GTP	PB-O3A-PA-O5'
47	KA	501	GTP	C5'-O5'-PA-O3A
47	KA	501	GTP	C5'-O5'-PA-O2A
47	KC	501	GTP	C5'-O5'-PA-O3A
47	KC	501	GTP	C5'-O5'-PA-O2A
47	KE	501	GTP	C5'-O5'-PA-O3A
47	KE	501	GTP	C5'-O5'-PA-O1A
47	KE	501	GTP	C5'-O5'-PA-O2A
47	KG	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
47	KG	501	GTP	C5'-O5'-PA-O2A
47	KI	501	GTP	C5'-O5'-PA-O3A
47	KI	501	GTP	C5'-O5'-PA-O1A
47	KI	501	GTP	C5'-O5'-PA-O2A
47	KK	501	GTP	C5'-O5'-PA-O3A
47	KK	501	GTP	C5'-O5'-PA-O2A
47	KM	501	GTP	C5'-O5'-PA-O3A
47	KM	501	GTP	C5'-O5'-PA-O2A
47	LA	501	GTP	PB-O3A-PA-O5'
47	LA	501	GTP	C5'-O5'-PA-O3A
47	LA	501	GTP	C5'-O5'-PA-O2A
47	LC	501	GTP	PB-O3A-PA-O5'
47	LE	501	GTP	C5'-O5'-PA-O3A
47	LE	501	GTP	C5'-O5'-PA-O2A
47	LI	501	GTP	PB-O3A-PA-O5'
47	LI	501	GTP	C5'-O5'-PA-O3A
47	LI	501	GTP	C5'-O5'-PA-O2A
47	LK	501	GTP	C5'-O5'-PA-O3A
47	LK	501	GTP	C5'-O5'-PA-O2A
47	LM	501	GTP	C5'-O5'-PA-O3A
47	LM	501	GTP	C5'-O5'-PA-O2A
47	MA	501	GTP	C5'-O5'-PA-O3A
47	MA	501	GTP	C5'-O5'-PA-O1A
47	MA	501	GTP	C5'-O5'-PA-O2A
47	MC	501	GTP	C5'-O5'-PA-O3A
47	MC	501	GTP	C5'-O5'-PA-O1A
47	MC	501	GTP	C5'-O5'-PA-O2A
47	ME	501	GTP	C5'-O5'-PA-O3A
47	ME	501	GTP	C5'-O5'-PA-O1A
47	ME	501	GTP	C5'-O5'-PA-O2A
47	MG	501	GTP	C5'-O5'-PA-O3A
47	MG	501	GTP	C5'-O5'-PA-O1A
47	MG	501	GTP	C5'-O5'-PA-O2A
47	MI	501	GTP	C5'-O5'-PA-O3A
47	MI	501	GTP	C5'-O5'-PA-O1A
47	MI	501	GTP	C5'-O5'-PA-O2A
47	MK	501	GTP	C5'-O5'-PA-O3A
47	MK	501	GTP	C5'-O5'-PA-O1A
47	MK	501	GTP	C5'-O5'-PA-O2A
47	MM	501	GTP	C5'-O5'-PA-O3A
47	MM	501	GTP	C5'-O5'-PA-O1A
47	MM	501	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
47	NA	501	GTP	C5'-O5'-PA-O3A
47	NA	501	GTP	C5'-O5'-PA-O2A
47	NE	501	GTP	PB-O3A-PA-O5'
47	NE	501	GTP	C5'-O5'-PA-O3A
47	NE	501	GTP	C5'-O5'-PA-O2A
47	NG	501	GTP	PB-O3B-PG-O2G
47	NG	501	GTP	PB-O3B-PG-O3G
47	NK	501	GTP	PB-O3B-PG-O3G
47	NK	501	GTP	C5'-O5'-PA-O1A
47	OA	501	GTP	C5'-O5'-PA-O3A
47	OC	501	GTP	PB-O3B-PG-O2G
47	OC	501	GTP	PB-O3B-PG-O3G
47	OF	501	GTP	C5'-O5'-PA-O3A
47	OF	501	GTP	C5'-O5'-PA-O1A
47	OG	501	GTP	PB-O3B-PG-O3G
47	OI	501	GTP	C5'-O5'-PA-O3A
47	OI	501	GTP	C5'-O5'-PA-O1A
47	OM	501	GTP	O4'-C4'-C5'-O5'
47	PA	501	GTP	C5'-O5'-PA-O3A
47	PA	501	GTP	C5'-O5'-PA-O1A
47	PA	501	GTP	C5'-O5'-PA-O2A
47	PD	501	GTP	C5'-O5'-PA-O3A
47	PD	501	GTP	C5'-O5'-PA-O1A
47	PD	501	GTP	C5'-O5'-PA-O2A
47	PE	501	GTP	C5'-O5'-PA-O3A
47	PE	501	GTP	C5'-O5'-PA-O1A
47	PE	501	GTP	C5'-O5'-PA-O2A
47	PG	501	GTP	C5'-O5'-PA-O3A
47	PG	501	GTP	C5'-O5'-PA-O1A
47	PG	501	GTP	C5'-O5'-PA-O2A
47	PI	501	GTP	C5'-O5'-PA-O3A
47	PI	501	GTP	C5'-O5'-PA-O1A
47	PI	501	GTP	C5'-O5'-PA-O2A
47	PK	501	GTP	C5'-O5'-PA-O3A
47	PK	501	GTP	C5'-O5'-PA-O1A
47	PK	501	GTP	C5'-O5'-PA-O2A
47	PM	501	GTP	C5'-O5'-PA-O3A
47	PM	501	GTP	C5'-O5'-PA-O1A
47	PM	501	GTP	C5'-O5'-PA-O2A
47	QA	501	GTP	C5'-O5'-PA-O3A
47	QA	501	GTP	C5'-O5'-PA-O2A
47	QC	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
47	QC	501	GTP	C5'-O5'-PA-O2A
47	QE	501	GTP	C5'-O5'-PA-O3A
47	QE	501	GTP	C5'-O5'-PA-O1A
47	QE	501	GTP	C5'-O5'-PA-O2A
47	QI	501	GTP	C5'-O5'-PA-O3A
47	QI	501	GTP	C5'-O5'-PA-O1A
47	QI	501	GTP	C5'-O5'-PA-O2A
47	QI	501	GTP	O4'-C4'-C5'-O5'
47	QK	501	GTP	C5'-O5'-PA-O3A
47	QK	501	GTP	C5'-O5'-PA-O2A
47	QM	501	GTP	C5'-O5'-PA-O3A
47	QM	501	GTP	C5'-O5'-PA-O1A
47	RA	501	GTP	C5'-O5'-PA-O3A
47	RA	501	GTP	C5'-O5'-PA-O2A
47	RC	501	GTP	C5'-O5'-PA-O3A
47	RC	501	GTP	C5'-O5'-PA-O1A
47	RC	501	GTP	C5'-O5'-PA-O2A
47	RE	501	GTP	C5'-O5'-PA-O3A
47	RE	501	GTP	C5'-O5'-PA-O1A
47	RE	501	GTP	C5'-O5'-PA-O2A
47	RG	501	GTP	C5'-O5'-PA-O3A
47	RG	501	GTP	C5'-O5'-PA-O1A
47	RG	501	GTP	C5'-O5'-PA-O2A
47	RI	501	GTP	C5'-O5'-PA-O3A
47	RI	501	GTP	C5'-O5'-PA-O2A
47	RK	501	GTP	C5'-O5'-PA-O3A
47	RK	501	GTP	C5'-O5'-PA-O1A
47	RK	501	GTP	C5'-O5'-PA-O2A
47	RM	501	GTP	PB-O3A-PA-O5'
47	RM	501	GTP	C5'-O5'-PA-O3A
47	RM	501	GTP	C5'-O5'-PA-O1A
47	RM	501	GTP	C5'-O5'-PA-O2A
47	SA	501	GTP	C5'-O5'-PA-O3A
47	SA	501	GTP	C5'-O5'-PA-O2A
47	SC	501	GTP	C5'-O5'-PA-O3A
47	SC	501	GTP	C5'-O5'-PA-O1A
47	SC	501	GTP	C5'-O5'-PA-O2A
47	SE	501	GTP	C5'-O5'-PA-O3A
47	SE	501	GTP	C5'-O5'-PA-O1A
47	SE	501	GTP	C5'-O5'-PA-O2A
47	SG	501	GTP	C5'-O5'-PA-O3A
47	SG	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
47	SG	501	GTP	C5'-O5'-PA-O2A
47	SI	501	GTP	C5'-O5'-PA-O3A
47	SI	501	GTP	C5'-O5'-PA-O2A
47	SK	501	GTP	C5'-O5'-PA-O3A
47	SK	501	GTP	C5'-O5'-PA-O1A
47	SK	501	GTP	C5'-O5'-PA-O2A
47	SM	501	GTP	C5'-O5'-PA-O3A
47	SM	501	GTP	C5'-O5'-PA-O1A
47	SM	501	GTP	C5'-O5'-PA-O2A
47	TA	501	GTP	C5'-O5'-PA-O3A
47	TA	501	GTP	C5'-O5'-PA-O2A
47	TC	501	GTP	C5'-O5'-PA-O3A
47	TC	501	GTP	C5'-O5'-PA-O1A
47	TC	501	GTP	C5'-O5'-PA-O2A
47	TE	501	GTP	C5'-O5'-PA-O3A
47	TE	501	GTP	C5'-O5'-PA-O1A
47	TE	501	GTP	C5'-O5'-PA-O2A
47	TG	501	GTP	C5'-O5'-PA-O3A
47	TG	501	GTP	C5'-O5'-PA-O2A
47	TI	501	GTP	C5'-O5'-PA-O3A
47	TI	501	GTP	C5'-O5'-PA-O2A
47	TK	501	GTP	C5'-O5'-PA-O3A
47	TK	501	GTP	C5'-O5'-PA-O1A
47	TK	501	GTP	C5'-O5'-PA-O2A
47	TM	501	GTP	C5'-O5'-PA-O3A
47	TM	501	GTP	C5'-O5'-PA-O1A
47	TM	501	GTP	C5'-O5'-PA-O2A
47	UA	501	GTP	C5'-O5'-PA-O3A
47	UA	501	GTP	C5'-O5'-PA-O2A
47	UC	501	GTP	C5'-O5'-PA-O3A
47	UC	501	GTP	C5'-O5'-PA-O1A
47	UC	501	GTP	C5'-O5'-PA-O2A
47	UE	501	GTP	C5'-O5'-PA-O3A
47	UE	501	GTP	C5'-O5'-PA-O1A
47	UE	501	GTP	C5'-O5'-PA-O2A
47	UG	501	GTP	PB-O3A-PA-O5'
47	UG	501	GTP	C5'-O5'-PA-O3A
47	UG	501	GTP	C5'-O5'-PA-O1A
47	UG	501	GTP	C5'-O5'-PA-O2A
47	UI	501	GTP	C5'-O5'-PA-O3A
47	UI	501	GTP	C5'-O5'-PA-O2A
47	UK	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
47	UK	501	GTP	C5'-O5'-PA-O1A
47	UK	501	GTP	C5'-O5'-PA-O2A
47	UM	501	GTP	C5'-O5'-PA-O3A
47	UM	501	GTP	C5'-O5'-PA-O1A
47	UM	501	GTP	C5'-O5'-PA-O2A
47	VA	501	GTP	C5'-O5'-PA-O3A
47	VA	501	GTP	C5'-O5'-PA-O1A
47	VA	501	GTP	C5'-O5'-PA-O2A
47	VA	501	GTP	O4'-C4'-C5'-O5'
47	VC	501	GTP	C5'-O5'-PA-O3A
47	VC	501	GTP	C5'-O5'-PA-O1A
47	VC	501	GTP	C5'-O5'-PA-O2A
47	VE	501	GTP	PB-O3A-PA-O5'
47	VE	501	GTP	C5'-O5'-PA-O3A
47	VE	501	GTP	C5'-O5'-PA-O2A
47	VG	501	GTP	C5'-O5'-PA-O3A
47	VG	501	GTP	C5'-O5'-PA-O1A
47	VG	501	GTP	C5'-O5'-PA-O2A
47	VI	501	GTP	C5'-O5'-PA-O3A
47	VI	501	GTP	C5'-O5'-PA-O1A
47	VI	501	GTP	C5'-O5'-PA-O2A
47	VK	501	GTP	C5'-O5'-PA-O3A
47	VK	501	GTP	C5'-O5'-PA-O1A
47	VK	501	GTP	C5'-O5'-PA-O2A
47	VM	501	GTP	C5'-O5'-PA-O3A
47	VM	501	GTP	C5'-O5'-PA-O1A
47	VM	501	GTP	C5'-O5'-PA-O2A
47	WA	501	GTP	C5'-O5'-PA-O3A
47	WA	501	GTP	C5'-O5'-PA-O1A
47	WA	501	GTP	C5'-O5'-PA-O2A
47	WC	501	GTP	C5'-O5'-PA-O3A
47	WC	501	GTP	C5'-O5'-PA-O1A
47	WC	501	GTP	C5'-O5'-PA-O2A
47	WE	501	GTP	C5'-O5'-PA-O3A
47	WE	501	GTP	C5'-O5'-PA-O1A
47	WE	501	GTP	C5'-O5'-PA-O2A
47	WG	501	GTP	C5'-O5'-PA-O3A
47	WG	501	GTP	C5'-O5'-PA-O1A
47	WG	501	GTP	C5'-O5'-PA-O2A
47	WI	501	GTP	C5'-O5'-PA-O3A
47	WI	501	GTP	C5'-O5'-PA-O1A
47	WI	501	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
47	WK	501	GTP	C5'-O5'-PA-O3A
47	WK	501	GTP	C5'-O5'-PA-O2A
47	WM	501	GTP	C5'-O5'-PA-O3A
47	WM	501	GTP	C5'-O5'-PA-O1A
47	WM	501	GTP	C5'-O5'-PA-O2A
47	CE	501	GTP	C5'-O5'-PA-O3A
47	CE	501	GTP	C5'-O5'-PA-O1A
47	CE	501	GTP	C5'-O5'-PA-O2A
47	DC	501	GTP	C5'-O5'-PA-O3A
47	DC	501	GTP	C5'-O5'-PA-O1A
47	DC	501	GTP	C5'-O5'-PA-O2A
49	BD	501	GDP	C5'-O5'-PA-O1A
49	DF	501	GDP	C5'-O5'-PA-O1A
49	EN	501	GDP	C5'-O5'-PA-O1A
49	JD	501	GDP	C5'-O5'-PA-O3A
49	JD	501	GDP	C5'-O5'-PA-O1A
49	JF	501	GDP	C5'-O5'-PA-O1A
49	JL	501	GDP	C5'-O5'-PA-O1A
49	LL	501	GDP	C5'-O5'-PA-O1A
49	ML	501	GDP	C5'-O5'-PA-O1A
49	SH	501	GDP	C5'-O5'-PA-O1A
49	TD	501	GDP	C5'-O5'-PA-O1A
49	TF	501	GDP	C5'-O5'-PA-O1A
49	TJ	501	GDP	C5'-O5'-PA-O1A
49	TL	501	GDP	C5'-O5'-PA-O1A
47	AC	501	GTP	O4'-C4'-C5'-O5'
47	BE	501	GTP	O4'-C4'-C5'-O5'
47	BI	501	GTP	C3'-C4'-C5'-O5'
47	BK	501	GTP	C3'-C4'-C5'-O5'
47	BM	501	GTP	O4'-C4'-C5'-O5'
47	BM	501	GTP	C3'-C4'-C5'-O5'
47	CK	501	GTP	C3'-C4'-C5'-O5'
47	CM	501	GTP	O4'-C4'-C5'-O5'
47	CM	501	GTP	C3'-C4'-C5'-O5'
47	DA	501	GTP	O4'-C4'-C5'-O5'
47	DI	501	GTP	O4'-C4'-C5'-O5'
47	DI	501	GTP	C3'-C4'-C5'-O5'
47	DM	501	GTP	O4'-C4'-C5'-O5'
47	DM	501	GTP	C3'-C4'-C5'-O5'
47	FC	501	GTP	O4'-C4'-C5'-O5'
47	FE	501	GTP	O4'-C4'-C5'-O5'
47	GA	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
47	GE	501	GTP	O4'-C4'-C5'-O5'
47	GE	501	GTP	C3'-C4'-C5'-O5'
47	GG	501	GTP	O4'-C4'-C5'-O5'
47	GG	501	GTP	C3'-C4'-C5'-O5'
47	GI	501	GTP	C3'-C4'-C5'-O5'
47	HA	501	GTP	C3'-C4'-C5'-O5'
47	HE	501	GTP	O4'-C4'-C5'-O5'
47	HE	501	GTP	C3'-C4'-C5'-O5'
47	HK	501	GTP	O4'-C4'-C5'-O5'
47	HK	501	GTP	C3'-C4'-C5'-O5'
47	IC	501	GTP	O4'-C4'-C5'-O5'
47	IC	501	GTP	C3'-C4'-C5'-O5'
47	IE	501	GTP	O4'-C4'-C5'-O5'
47	IE	501	GTP	C3'-C4'-C5'-O5'
47	II	501	GTP	O4'-C4'-C5'-O5'
47	II	501	GTP	C3'-C4'-C5'-O5'
47	IK	501	GTP	O4'-C4'-C5'-O5'
47	IK	501	GTP	C3'-C4'-C5'-O5'
47	ME	501	GTP	C3'-C4'-C5'-O5'
47	MM	501	GTP	O4'-C4'-C5'-O5'
47	MM	501	GTP	C3'-C4'-C5'-O5'
47	NA	501	GTP	O4'-C4'-C5'-O5'
47	NA	501	GTP	C3'-C4'-C5'-O5'
47	NE	501	GTP	C3'-C4'-C5'-O5'
47	NM	501	GTP	O4'-C4'-C5'-O5'
47	NM	501	GTP	C3'-C4'-C5'-O5'
47	OC	501	GTP	O4'-C4'-C5'-O5'
47	OC	501	GTP	C3'-C4'-C5'-O5'
47	OF	501	GTP	O4'-C4'-C5'-O5'
47	OF	501	GTP	C3'-C4'-C5'-O5'
47	OG	501	GTP	O4'-C4'-C5'-O5'
47	OI	501	GTP	O4'-C4'-C5'-O5'
47	OI	501	GTP	C3'-C4'-C5'-O5'
47	OM	501	GTP	C3'-C4'-C5'-O5'
47	PD	501	GTP	O4'-C4'-C5'-O5'
47	PD	501	GTP	C3'-C4'-C5'-O5'
47	PE	501	GTP	O4'-C4'-C5'-O5'
47	PE	501	GTP	C3'-C4'-C5'-O5'
47	PG	501	GTP	C3'-C4'-C5'-O5'
47	PM	501	GTP	O4'-C4'-C5'-O5'
47	PM	501	GTP	C3'-C4'-C5'-O5'
47	QI	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
47	QM	501	GTP	O4'-C4'-C5'-O5'
47	RG	501	GTP	O4'-C4'-C5'-O5'
47	RG	501	GTP	C3'-C4'-C5'-O5'
47	RK	501	GTP	C3'-C4'-C5'-O5'
47	RM	501	GTP	O4'-C4'-C5'-O5'
47	RM	501	GTP	C3'-C4'-C5'-O5'
47	SC	501	GTP	C3'-C4'-C5'-O5'
47	SM	501	GTP	O4'-C4'-C5'-O5'
47	SM	501	GTP	C3'-C4'-C5'-O5'
47	TM	501	GTP	O4'-C4'-C5'-O5'
47	UE	501	GTP	C3'-C4'-C5'-O5'
47	UI	501	GTP	C3'-C4'-C5'-O5'
47	VA	501	GTP	C3'-C4'-C5'-O5'
47	VC	501	GTP	O4'-C4'-C5'-O5'
47	VC	501	GTP	C3'-C4'-C5'-O5'
47	WG	501	GTP	C3'-C4'-C5'-O5'
47	WM	501	GTP	O4'-C4'-C5'-O5'
47	WM	501	GTP	C3'-C4'-C5'-O5'
47	CE	501	GTP	O4'-C4'-C5'-O5'
47	AC	501	GTP	C3'-C4'-C5'-O5'
47	AE	501	GTP	O4'-C4'-C5'-O5'
47	AE	501	GTP	C3'-C4'-C5'-O5'
47	AK	501	GTP	O4'-C4'-C5'-O5'
47	AK	501	GTP	C3'-C4'-C5'-O5'
47	BC	502	GTP	O4'-C4'-C5'-O5'
47	BC	502	GTP	C3'-C4'-C5'-O5'
47	BE	501	GTP	C3'-C4'-C5'-O5'
47	BG	501	GTP	O4'-C4'-C5'-O5'
47	BG	501	GTP	C3'-C4'-C5'-O5'
47	BI	501	GTP	O4'-C4'-C5'-O5'
47	BK	501	GTP	O4'-C4'-C5'-O5'
47	CG	501	GTP	O4'-C4'-C5'-O5'
47	CG	501	GTP	C3'-C4'-C5'-O5'
47	DA	501	GTP	C3'-C4'-C5'-O5'
47	EM	501	GTP	O4'-C4'-C5'-O5'
47	FC	501	GTP	C3'-C4'-C5'-O5'
47	FE	501	GTP	C3'-C4'-C5'-O5'
47	FG	501	GTP	O4'-C4'-C5'-O5'
47	FI	501	GTP	O4'-C4'-C5'-O5'
47	FI	501	GTP	C3'-C4'-C5'-O5'
47	GA	501	GTP	O4'-C4'-C5'-O5'
47	GI	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
47	HA	501	GTP	O4'-C4'-C5'-O5'
47	HI	501	GTP	O4'-C4'-C5'-O5'
47	HI	501	GTP	C3'-C4'-C5'-O5'
47	IG	501	GTP	O4'-C4'-C5'-O5'
47	IG	501	GTP	C3'-C4'-C5'-O5'
47	IM	501	GTP	O4'-C4'-C5'-O5'
47	IM	501	GTP	C3'-C4'-C5'-O5'
47	LK	501	GTP	O4'-C4'-C5'-O5'
47	LK	501	GTP	C3'-C4'-C5'-O5'
47	MA	501	GTP	O4'-C4'-C5'-O5'
47	MA	501	GTP	C3'-C4'-C5'-O5'
47	ME	501	GTP	O4'-C4'-C5'-O5'
47	NC	501	GTP	O4'-C4'-C5'-O5'
47	NC	501	GTP	C3'-C4'-C5'-O5'
47	NE	501	GTP	O4'-C4'-C5'-O5'
47	OA	501	GTP	O4'-C4'-C5'-O5'
47	OG	501	GTP	C3'-C4'-C5'-O5'
47	PG	501	GTP	O4'-C4'-C5'-O5'
47	QE	501	GTP	O4'-C4'-C5'-O5'
47	QE	501	GTP	C3'-C4'-C5'-O5'
47	QK	501	GTP	O4'-C4'-C5'-O5'
47	QK	501	GTP	C3'-C4'-C5'-O5'
47	QM	501	GTP	C3'-C4'-C5'-O5'
47	RE	501	GTP	O4'-C4'-C5'-O5'
47	RE	501	GTP	C3'-C4'-C5'-O5'
47	RK	501	GTP	O4'-C4'-C5'-O5'
47	SC	501	GTP	O4'-C4'-C5'-O5'
47	TC	501	GTP	O4'-C4'-C5'-O5'
47	TC	501	GTP	C3'-C4'-C5'-O5'
47	TG	501	GTP	O4'-C4'-C5'-O5'
47	TG	501	GTP	C3'-C4'-C5'-O5'
47	TM	501	GTP	C3'-C4'-C5'-O5'
47	UE	501	GTP	O4'-C4'-C5'-O5'
47	UG	501	GTP	O4'-C4'-C5'-O5'
47	UG	501	GTP	C3'-C4'-C5'-O5'
47	UI	501	GTP	O4'-C4'-C5'-O5'
47	VG	501	GTP	O4'-C4'-C5'-O5'
47	VG	501	GTP	C3'-C4'-C5'-O5'
47	VK	501	GTP	O4'-C4'-C5'-O5'
47	VK	501	GTP	C3'-C4'-C5'-O5'
47	WC	501	GTP	O4'-C4'-C5'-O5'
47	WC	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
47	WE	501	GTP	O4'-C4'-C5'-O5'
47	WE	501	GTP	C3'-C4'-C5'-O5'
47	WG	501	GTP	O4'-C4'-C5'-O5'
47	WI	501	GTP	O4'-C4'-C5'-O5'
47	WI	501	GTP	C3'-C4'-C5'-O5'
47	WK	501	GTP	O4'-C4'-C5'-O5'
47	WK	501	GTP	C3'-C4'-C5'-O5'
47	CE	501	GTP	C3'-C4'-C5'-O5'
49	MD	501	GDP	O4'-C4'-C5'-O5'
49	MD	501	GDP	C3'-C4'-C5'-O5'
47	CA	501	GTP	O4'-C4'-C5'-O5'
47	CA	501	GTP	C3'-C4'-C5'-O5'
47	FG	501	GTP	C3'-C4'-C5'-O5'
47	GK	501	GTP	O4'-C4'-C5'-O5'
47	GK	501	GTP	C3'-C4'-C5'-O5'
47	GM	501	GTP	O4'-C4'-C5'-O5'
47	GM	501	GTP	C3'-C4'-C5'-O5'
47	IA	501	GTP	O4'-C4'-C5'-O5'
47	IA	501	GTP	C3'-C4'-C5'-O5'
47	JK	501	GTP	C3'-C4'-C5'-O5'
47	OA	501	GTP	C3'-C4'-C5'-O5'
47	OK	501	GTP	O4'-C4'-C5'-O5'
47	OK	501	GTP	C3'-C4'-C5'-O5'
47	PA	501	GTP	C3'-C4'-C5'-O5'
47	PI	501	GTP	C3'-C4'-C5'-O5'
47	RC	501	GTP	O4'-C4'-C5'-O5'
47	RC	501	GTP	C3'-C4'-C5'-O5'
47	TI	501	GTP	O4'-C4'-C5'-O5'
47	TI	501	GTP	C3'-C4'-C5'-O5'
47	VE	501	GTP	O4'-C4'-C5'-O5'
47	VE	501	GTP	C3'-C4'-C5'-O5'
47	VM	501	GTP	O4'-C4'-C5'-O5'
47	VM	501	GTP	C3'-C4'-C5'-O5'
47	AA	501	GTP	C3'-C4'-C5'-O5'
47	AM	501	GTP	C3'-C4'-C5'-O5'
47	BA	501	GTP	C3'-C4'-C5'-O5'
47	EA	501	GTP	C3'-C4'-C5'-O5'
47	EC	501	GTP	C3'-C4'-C5'-O5'
47	EM	501	GTP	C3'-C4'-C5'-O5'
47	FK	501	GTP	C3'-C4'-C5'-O5'
47	FM	501	GTP	C3'-C4'-C5'-O5'
47	GC	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
47	LM	501	GTP	C3'-C4'-C5'-O5'
47	MI	501	GTP	C3'-C4'-C5'-O5'
47	NI	501	GTP	C3'-C4'-C5'-O5'
47	PA	501	GTP	O4'-C4'-C5'-O5'
47	PI	501	GTP	O4'-C4'-C5'-O5'
47	QA	501	GTP	C3'-C4'-C5'-O5'
47	QG	501	GTP	C3'-C4'-C5'-O5'
47	RA	501	GTP	C3'-C4'-C5'-O5'
47	SA	501	GTP	C3'-C4'-C5'-O5'
47	SE	501	GTP	C3'-C4'-C5'-O5'
47	SG	501	GTP	C3'-C4'-C5'-O5'
47	TA	501	GTP	C3'-C4'-C5'-O5'
47	TE	501	GTP	C3'-C4'-C5'-O5'
47	UA	501	GTP	C3'-C4'-C5'-O5'
49	TL	501	GDP	C3'-C4'-C5'-O5'
47	EC	501	GTP	O4'-C4'-C5'-O5'
47	EE	501	GTP	C3'-C4'-C5'-O5'
47	EI	501	GTP	C3'-C4'-C5'-O5'
47	JK	501	GTP	O4'-C4'-C5'-O5'
47	LI	501	GTP	C3'-C4'-C5'-O5'
47	MC	501	GTP	C3'-C4'-C5'-O5'
47	MI	501	GTP	O4'-C4'-C5'-O5'
47	RA	501	GTP	O4'-C4'-C5'-O5'
47	SG	501	GTP	O4'-C4'-C5'-O5'
47	SK	501	GTP	C3'-C4'-C5'-O5'
47	UA	501	GTP	O4'-C4'-C5'-O5'
49	LL	501	GDP	C3'-C4'-C5'-O5'
47	AA	501	GTP	O4'-C4'-C5'-O5'
47	EA	501	GTP	O4'-C4'-C5'-O5'
47	EK	501	GTP	C3'-C4'-C5'-O5'
47	HM	501	GTP	C3'-C4'-C5'-O5'
47	JC	501	GTP	C3'-C4'-C5'-O5'
47	JG	501	GTP	C3'-C4'-C5'-O5'
47	JM	501	GTP	C3'-C4'-C5'-O5'
47	LE	501	GTP	C3'-C4'-C5'-O5'
47	LM	501	GTP	O4'-C4'-C5'-O5'
47	TA	501	GTP	O4'-C4'-C5'-O5'
47	BA	501	GTP	O4'-C4'-C5'-O5'
47	FM	501	GTP	O4'-C4'-C5'-O5'
47	GC	501	GTP	O4'-C4'-C5'-O5'
47	KA	501	GTP	C3'-C4'-C5'-O5'
47	KM	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
47	MG	501	GTP	C3'-C4'-C5'-O5'
47	MK	501	GTP	C3'-C4'-C5'-O5'
47	NI	501	GTP	O4'-C4'-C5'-O5'
47	QA	501	GTP	O4'-C4'-C5'-O5'
47	QG	501	GTP	O4'-C4'-C5'-O5'
47	RI	501	GTP	C3'-C4'-C5'-O5'
47	SA	501	GTP	O4'-C4'-C5'-O5'
47	SE	501	GTP	O4'-C4'-C5'-O5'
47	TE	501	GTP	O4'-C4'-C5'-O5'
47	UM	501	GTP	C3'-C4'-C5'-O5'
47	WA	501	GTP	C3'-C4'-C5'-O5'
47	DC	501	GTP	C3'-C4'-C5'-O5'
49	LH	501	GDP	C3'-C4'-C5'-O5'
47	AM	501	GTP	PA-O3A-PB-O1B
47	BK	501	GTP	PA-O3A-PB-O1B
47	FA	501	GTP	PA-O3A-PB-O1B
47	FE	501	GTP	PA-O3A-PB-O1B
47	GA	501	GTP	PA-O3A-PB-O1B
47	GK	501	GTP	PA-O3A-PB-O1B
47	GM	501	GTP	PA-O3A-PB-O1B
47	HG	501	GTP	PA-O3A-PB-O1B
47	HG	501	GTP	PB-O3A-PA-O1A
47	JK	501	GTP	PA-O3A-PB-O1B
47	LK	501	GTP	PA-O3A-PB-O1B
47	QA	501	GTP	PA-O3A-PB-O1B
47	SE	501	GTP	PA-O3A-PB-O1B
47	SG	501	GTP	PA-O3A-PB-O1B
47	UI	501	GTP	PA-O3A-PB-O1B
47	VI	501	GTP	PB-O3A-PA-O1A
47	WK	501	GTP	PB-O3A-PA-O1A
47	AI	501	GTP	C4'-C5'-O5'-PA
47	CC	501	GTP	C4'-C5'-O5'-PA
47	TE	501	GTP	C4'-C5'-O5'-PA
47	UC	501	GTP	C4'-C5'-O5'-PA
47	VC	501	GTP	C4'-C5'-O5'-PA
47	AM	501	GTP	O4'-C4'-C5'-O5'
47	EI	501	GTP	O4'-C4'-C5'-O5'
47	FK	501	GTP	O4'-C4'-C5'-O5'
49	TL	501	GDP	O4'-C4'-C5'-O5'
47	AG	501	GTP	C4'-C5'-O5'-PA
47	AM	501	GTP	C4'-C5'-O5'-PA
47	BC	502	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
47	BG	501	GTP	C4'-C5'-O5'-PA
47	BI	501	GTP	C4'-C5'-O5'-PA
47	BK	501	GTP	C4'-C5'-O5'-PA
47	CK	501	GTP	C4'-C5'-O5'-PA
47	EI	501	GTP	C4'-C5'-O5'-PA
47	FE	501	GTP	C4'-C5'-O5'-PA
47	FI	501	GTP	C4'-C5'-O5'-PA
47	GC	501	GTP	C4'-C5'-O5'-PA
47	GG	501	GTP	C4'-C5'-O5'-PA
47	GI	501	GTP	C4'-C5'-O5'-PA
47	HC	501	GTP	C4'-C5'-O5'-PA
47	HE	501	GTP	C4'-C5'-O5'-PA
47	HI	501	GTP	C4'-C5'-O5'-PA
47	HK	501	GTP	C4'-C5'-O5'-PA
47	IC	501	GTP	C4'-C5'-O5'-PA
47	II	501	GTP	C4'-C5'-O5'-PA
47	IK	501	GTP	C4'-C5'-O5'-PA
47	JM	501	GTP	C4'-C5'-O5'-PA
47	MC	501	GTP	C4'-C5'-O5'-PA
47	MG	501	GTP	C4'-C5'-O5'-PA
47	PG	501	GTP	C4'-C5'-O5'-PA
47	QC	501	GTP	C4'-C5'-O5'-PA
47	SE	501	GTP	C4'-C5'-O5'-PA
47	SK	501	GTP	C4'-C5'-O5'-PA
47	TK	501	GTP	C4'-C5'-O5'-PA
47	UE	501	GTP	C4'-C5'-O5'-PA
47	UI	501	GTP	C4'-C5'-O5'-PA
47	VG	501	GTP	C4'-C5'-O5'-PA
47	EE	501	GTP	O4'-C4'-C5'-O5'
47	LI	501	GTP	O4'-C4'-C5'-O5'
47	AK	501	GTP	PB-O3A-PA-O5'
47	AM	501	GTP	PB-O3A-PA-O5'
47	CA	501	GTP	PB-O3A-PA-O5'
47	DK	501	GTP	PB-O3A-PA-O5'
47	EA	501	GTP	PB-O3A-PA-O5'
47	EM	501	GTP	PB-O3A-PA-O5'
47	GK	501	GTP	PB-O3A-PA-O5'
47	GM	501	GTP	PB-O3A-PA-O5'
47	HG	501	GTP	PB-O3A-PA-O5'
47	HI	501	GTP	PB-O3A-PA-O5'
47	IG	501	GTP	PB-O3A-PA-O5'
47	IM	501	GTP	PB-O3A-PA-O5'

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Mol	Chain	Res	Type	Atoms
47	JC	501	GTP	PB-O3A-PA-O5'
47	JG	501	GTP	PB-O3A-PA-O5'
47	JK	501	GTP	PB-O3A-PA-O5'
47	KK	501	GTP	PB-O3A-PA-O5'
47	LE	501	GTP	PB-O3A-PA-O5'
47	LG	501	GTP	PB-O3A-PA-O5'
47	MA	501	GTP	PB-O3A-PA-O5'
47	NA	501	GTP	PB-O3A-PA-O5'
47	NC	501	GTP	PB-O3A-PA-O5'
47	NG	501	GTP	PB-O3A-PA-O5'
47	NI	501	GTP	PB-O3A-PA-O5'
47	NK	501	GTP	PB-O3A-PA-O5'
47	NM	501	GTP	PB-O3A-PA-O5'
47	OC	501	GTP	PB-O3A-PA-O5'
47	OF	501	GTP	PB-O3A-PA-O5'
47	OG	501	GTP	PB-O3A-PA-O5'
47	OK	501	GTP	PB-O3A-PA-O5'
47	PD	501	GTP	PB-O3A-PA-O5'
47	QA	501	GTP	PB-O3A-PA-O5'
47	QG	501	GTP	PB-O3A-PA-O5'
47	RA	501	GTP	PB-O3A-PA-O5'
47	TA	501	GTP	PB-O3A-PA-O5'
47	TG	501	GTP	PB-O3A-PA-O5'
47	TI	501	GTP	PB-O3A-PA-O5'
47	UA	501	GTP	PB-O3A-PA-O5'
47	UI	501	GTP	PB-O3A-PA-O5'
47	VC	501	GTP	PB-O3A-PA-O5'
47	VK	501	GTP	PB-O3A-PA-O5'
47	WK	501	GTP	PB-O3A-PA-O5'
47	BE	501	GTP	C4'-C5'-O5'-PA
47	SG	501	GTP	C4'-C5'-O5'-PA
47	TI	501	GTP	C4'-C5'-O5'-PA
47	UG	501	GTP	C4'-C5'-O5'-PA
47	AI	501	GTP	C3'-C4'-C5'-O5'
47	FA	501	GTP	C3'-C4'-C5'-O5'
47	KI	501	GTP	C3'-C4'-C5'-O5'
47	LC	501	GTP	C3'-C4'-C5'-O5'
49	MB	501	GDP	C3'-C4'-C5'-O5'
47	EG	501	GTP	C3'-C4'-C5'-O5'
47	JE	501	GTP	C3'-C4'-C5'-O5'
47	JI	501	GTP	C3'-C4'-C5'-O5'
47	LA	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
47	LG	501	GTP	C3'-C4'-C5'-O5'
47	NG	501	GTP	C3'-C4'-C5'-O5'
47	SK	501	GTP	O4'-C4'-C5'-O5'
49	FJ	501	GDP	C3'-C4'-C5'-O5'
49	LL	501	GDP	O4'-C4'-C5'-O5'
49	RJ	501	GDP	C3'-C4'-C5'-O5'
49	TD	501	GDP	C3'-C4'-C5'-O5'
49	WJ	501	GDP	C3'-C4'-C5'-O5'
47	AA	501	GTP	PB-O3A-PA-O1A
47	AI	501	GTP	PA-O3A-PB-O2B
47	BC	502	GTP	PA-O3A-PB-O2B
47	BG	501	GTP	PA-O3A-PB-O2B
47	BM	501	GTP	PA-O3A-PB-O2B
47	CA	501	GTP	PA-O3A-PB-O1B
47	CK	501	GTP	PA-O3A-PB-O2B
47	CM	501	GTP	PA-O3A-PB-O2B
47	DA	501	GTP	PA-O3A-PB-O2B
47	DK	501	GTP	PA-O3A-PB-O2B
47	DM	501	GTP	PA-O3A-PB-O2B
47	EI	501	GTP	PA-O3A-PB-O2B
47	FG	501	GTP	PA-O3A-PB-O2B
47	HA	501	GTP	PA-O3A-PB-O2B
47	HE	501	GTP	PA-O3A-PB-O2B
47	IC	501	GTP	PA-O3A-PB-O2B
47	KA	501	GTP	PA-O3A-PB-O2B
47	KI	501	GTP	PA-O3A-PB-O2B
47	KM	501	GTP	PA-O3A-PB-O2B
47	LI	501	GTP	PA-O3A-PB-O2B
47	LM	501	GTP	PA-O3A-PB-O2B
47	MC	501	GTP	PA-O3A-PB-O2B
47	MG	501	GTP	PA-O3A-PB-O2B
47	MI	501	GTP	PA-O3A-PB-O2B
47	MK	501	GTP	PA-O3A-PB-O2B
47	NA	501	GTP	PA-O3A-PB-O1B
47	PA	501	GTP	PA-O3A-PB-O2B
47	PM	501	GTP	PA-O3A-PB-O2B
47	QI	501	GTP	PA-O3A-PB-O2B
47	RA	501	GTP	PA-O3A-PB-O1B
47	RM	501	GTP	PA-O3A-PB-O2B
47	SC	501	GTP	PA-O3A-PB-O2B
47	SK	501	GTP	PA-O3A-PB-O1B
47	SM	501	GTP	PA-O3A-PB-O2B

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Mol	Chain	Res	Type	Atoms
47	TE	501	GTP	PA-O3A-PB-O2B
47	TG	501	GTP	PA-O3A-PB-O1B
47	VA	501	GTP	PA-O3A-PB-O2B
47	VC	501	GTP	PA-O3A-PB-O2B
47	VK	501	GTP	PA-O3A-PB-O2B
47	VM	501	GTP	PA-O3A-PB-O1B
47	WK	501	GTP	PA-O3A-PB-O1B
47	KE	501	GTP	C3'-C4'-C5'-O5'
47	KG	501	GTP	C3'-C4'-C5'-O5'
47	MC	501	GTP	O4'-C4'-C5'-O5'
47	TK	501	GTP	C3'-C4'-C5'-O5'
47	AE	501	GTP	C4'-C5'-O5'-PA
47	AK	501	GTP	C4'-C5'-O5'-PA
47	DA	501	GTP	C4'-C5'-O5'-PA
47	DM	501	GTP	C4'-C5'-O5'-PA
47	GA	501	GTP	C4'-C5'-O5'-PA
47	GE	501	GTP	C4'-C5'-O5'-PA
47	IE	501	GTP	C4'-C5'-O5'-PA
47	JG	501	GTP	C4'-C5'-O5'-PA
47	JK	501	GTP	C4'-C5'-O5'-PA
47	KA	501	GTP	C4'-C5'-O5'-PA
47	KG	501	GTP	C4'-C5'-O5'-PA
47	LA	501	GTP	C4'-C5'-O5'-PA
47	LE	501	GTP	C4'-C5'-O5'-PA
47	LI	501	GTP	C4'-C5'-O5'-PA
47	LK	501	GTP	C4'-C5'-O5'-PA
47	ME	501	GTP	C4'-C5'-O5'-PA
47	MK	501	GTP	C4'-C5'-O5'-PA
47	OK	501	GTP	C4'-C5'-O5'-PA
47	QE	501	GTP	C4'-C5'-O5'-PA
47	QK	501	GTP	C4'-C5'-O5'-PA
47	RK	501	GTP	C4'-C5'-O5'-PA
47	SC	501	GTP	C4'-C5'-O5'-PA
47	UK	501	GTP	C4'-C5'-O5'-PA
47	VA	501	GTP	C4'-C5'-O5'-PA
47	VE	501	GTP	C4'-C5'-O5'-PA
47	VI	501	GTP	C4'-C5'-O5'-PA
47	DE	501	GTP	C3'-C4'-C5'-O5'
47	EK	501	GTP	O4'-C4'-C5'-O5'
47	HM	501	GTP	O4'-C4'-C5'-O5'
47	JA	501	GTP	C3'-C4'-C5'-O5'
47	JC	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
47	JG	501	GTP	O4'-C4'-C5'-O5'
47	JM	501	GTP	O4'-C4'-C5'-O5'
47	LE	501	GTP	O4'-C4'-C5'-O5'
47	MK	501	GTP	O4'-C4'-C5'-O5'
47	RI	501	GTP	O4'-C4'-C5'-O5'
47	UM	501	GTP	O4'-C4'-C5'-O5'
49	BN	501	GDP	C3'-C4'-C5'-O5'
47	CA	501	GTP	C5'-O5'-PA-O1A
47	JK	501	GTP	C5'-O5'-PA-O2A
47	NC	501	GTP	C5'-O5'-PA-O1A
47	NK	501	GTP	C5'-O5'-PA-O3A
47	OA	501	GTP	C5'-O5'-PA-O1A
47	OC	501	GTP	C5'-O5'-PA-O1A
47	OG	501	GTP	C5'-O5'-PA-O1A
47	QM	501	GTP	C5'-O5'-PA-O2A
49	AB	501	GDP	C5'-O5'-PA-O1A
49	AF	501	GDP	C5'-O5'-PA-O1A
49	AJ	501	GDP	C5'-O5'-PA-O1A
49	AL	501	GDP	C5'-O5'-PA-O1A
49	AN	501	GDP	C5'-O5'-PA-O1A
49	BF	501	GDP	C5'-O5'-PA-O1A
49	BN	501	GDP	C5'-O5'-PA-O1A
49	CD	501	GDP	C5'-O5'-PA-O1A
49	CH	501	GDP	C5'-O5'-PA-O1A
49	CJ	501	GDP	C5'-O5'-PA-O1A
49	EF	501	GDP	C5'-O5'-PA-O1A
49	EH	501	GDP	C5'-O5'-PA-O1A
49	EJ	501	GDP	C5'-O5'-PA-O1A
49	FD	501	GDP	C5'-O5'-PA-O1A
49	FH	501	GDP	C5'-O5'-PA-O1A
49	FJ	501	GDP	C5'-O5'-PA-O1A
49	FL	502	GDP	C5'-O5'-PA-O1A
49	FN	501	GDP	C5'-O5'-PA-O1A
49	GD	501	GDP	C5'-O5'-PA-O1A
49	GF	501	GDP	C5'-O5'-PA-O1A
49	GJ	501	GDP	C5'-O5'-PA-O1A
49	GL	502	GDP	C5'-O5'-PA-O1A
49	HD	501	GDP	C5'-O5'-PA-O1A
49	HF	501	GDP	C5'-O5'-PA-O1A
49	HJ	501	GDP	C5'-O5'-PA-O1A
49	HL	501	GDP	C5'-O5'-PA-O1A
49	IB	501	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
49	ID	501	GDP	C5'-O5'-PA-O1A
49	IN	501	GDP	C5'-O5'-PA-O1A
49	JB	501	GDP	C5'-O5'-PA-O1A
49	JH	501	GDP	C5'-O5'-PA-O1A
49	JJ	501	GDP	C5'-O5'-PA-O1A
49	KL	501	GDP	C5'-O5'-PA-O1A
49	LD	501	GDP	C5'-O5'-PA-O1A
49	LF	501	GDP	C5'-O5'-PA-O1A
49	LH	501	GDP	C5'-O5'-PA-O1A
49	LJ	501	GDP	C5'-O5'-PA-O1A
49	MB	501	GDP	C5'-O5'-PA-O1A
49	MD	501	GDP	C5'-O5'-PA-O1A
49	MH	501	GDP	C5'-O5'-PA-O1A
49	NB	501	GDP	C5'-O5'-PA-O1A
49	ND	502	GDP	C5'-O5'-PA-O1A
49	NF	501	GDP	C5'-O5'-PA-O1A
49	NJ	501	GDP	C5'-O5'-PA-O1A
49	NN	501	GDP	C5'-O5'-PA-O1A
49	OH	501	GDP	C5'-O5'-PA-O1A
49	QB	501	GDP	C5'-O5'-PA-O1A
49	RJ	501	GDP	C5'-O5'-PA-O1A
49	SB	501	GDP	C5'-O5'-PA-O1A
49	SD	501	GDP	C5'-O5'-PA-O1A
49	SF	501	GDP	C5'-O5'-PA-O1A
49	SL	501	GDP	C5'-O5'-PA-O1A
49	TB	501	GDP	C5'-O5'-PA-O1A
49	TH	501	GDP	C5'-O5'-PA-O1A
49	UB	501	GDP	C5'-O5'-PA-O1A
49	UD	501	GDP	C5'-O5'-PA-O1A
49	UF	501	GDP	C5'-O5'-PA-O1A
49	UN	501	GDP	C5'-O5'-PA-O1A
49	VD	501	GDP	C5'-O5'-PA-O1A
49	VF	501	GDP	C5'-O5'-PA-O1A
49	VH	501	GDP	C5'-O5'-PA-O1A
49	VN	501	GDP	C5'-O5'-PA-O1A
49	WH	501	GDP	C5'-O5'-PA-O1A
49	WL	501	GDP	C5'-O5'-PA-O1A
49	WN	501	GDP	C5'-O5'-PA-O1A
47	AA	501	GTP	C4'-C5'-O5'-PA
47	AC	501	GTP	C4'-C5'-O5'-PA
47	BA	501	GTP	C4'-C5'-O5'-PA
47	BM	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
47	CA	501	GTP	C4'-C5'-O5'-PA
47	CG	501	GTP	C4'-C5'-O5'-PA
47	CI	501	GTP	C4'-C5'-O5'-PA
47	CM	501	GTP	C4'-C5'-O5'-PA
47	DE	501	GTP	C4'-C5'-O5'-PA
47	DI	501	GTP	C4'-C5'-O5'-PA
47	DK	501	GTP	C4'-C5'-O5'-PA
47	EA	501	GTP	C4'-C5'-O5'-PA
47	EC	501	GTP	C4'-C5'-O5'-PA
47	EE	501	GTP	C4'-C5'-O5'-PA
47	EG	501	GTP	C4'-C5'-O5'-PA
47	EK	501	GTP	C4'-C5'-O5'-PA
47	EM	501	GTP	C4'-C5'-O5'-PA
47	FA	501	GTP	C4'-C5'-O5'-PA
47	FC	501	GTP	C4'-C5'-O5'-PA
47	FG	501	GTP	C4'-C5'-O5'-PA
47	FK	501	GTP	C4'-C5'-O5'-PA
47	FM	501	GTP	C4'-C5'-O5'-PA
47	GK	501	GTP	C4'-C5'-O5'-PA
47	GM	501	GTP	C4'-C5'-O5'-PA
47	HA	501	GTP	C4'-C5'-O5'-PA
47	HG	501	GTP	C4'-C5'-O5'-PA
47	HM	501	GTP	C4'-C5'-O5'-PA
47	IA	501	GTP	C4'-C5'-O5'-PA
47	IG	501	GTP	C4'-C5'-O5'-PA
47	IM	501	GTP	C4'-C5'-O5'-PA
47	JA	501	GTP	C4'-C5'-O5'-PA
47	JC	501	GTP	C4'-C5'-O5'-PA
47	JE	501	GTP	C4'-C5'-O5'-PA
47	JI	501	GTP	C4'-C5'-O5'-PA
47	KC	501	GTP	C4'-C5'-O5'-PA
47	KE	501	GTP	C4'-C5'-O5'-PA
47	KI	501	GTP	C4'-C5'-O5'-PA
47	KK	501	GTP	C4'-C5'-O5'-PA
47	KM	501	GTP	C4'-C5'-O5'-PA
47	LC	501	GTP	C4'-C5'-O5'-PA
47	LM	501	GTP	C4'-C5'-O5'-PA
47	MA	501	GTP	C4'-C5'-O5'-PA
47	MI	501	GTP	C4'-C5'-O5'-PA
47	MM	501	GTP	C4'-C5'-O5'-PA
47	NA	501	GTP	C4'-C5'-O5'-PA
47	NE	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
47	NI	501	GTP	C4'-C5'-O5'-PA
47	OC	501	GTP	C4'-C5'-O5'-PA
47	PA	501	GTP	C4'-C5'-O5'-PA
47	PD	501	GTP	C4'-C5'-O5'-PA
47	PE	501	GTP	C4'-C5'-O5'-PA
47	PI	501	GTP	C4'-C5'-O5'-PA
47	PK	501	GTP	C4'-C5'-O5'-PA
47	PM	501	GTP	C4'-C5'-O5'-PA
47	QA	501	GTP	C4'-C5'-O5'-PA
47	RA	501	GTP	C4'-C5'-O5'-PA
47	RC	501	GTP	C4'-C5'-O5'-PA
47	RE	501	GTP	C4'-C5'-O5'-PA
47	RG	501	GTP	C4'-C5'-O5'-PA
47	RI	501	GTP	C4'-C5'-O5'-PA
47	RM	501	GTP	C4'-C5'-O5'-PA
47	SA	501	GTP	C4'-C5'-O5'-PA
47	SI	501	GTP	C4'-C5'-O5'-PA
47	SM	501	GTP	C4'-C5'-O5'-PA
47	TA	501	GTP	C4'-C5'-O5'-PA
47	TC	501	GTP	C4'-C5'-O5'-PA
47	TG	501	GTP	C4'-C5'-O5'-PA
47	TM	501	GTP	C4'-C5'-O5'-PA
47	UA	501	GTP	C4'-C5'-O5'-PA
47	UM	501	GTP	C4'-C5'-O5'-PA
47	VK	501	GTP	C4'-C5'-O5'-PA
47	VM	501	GTP	C4'-C5'-O5'-PA
47	WA	501	GTP	C4'-C5'-O5'-PA
47	WC	501	GTP	C4'-C5'-O5'-PA
47	WE	501	GTP	C4'-C5'-O5'-PA
47	WG	501	GTP	C4'-C5'-O5'-PA
47	WI	501	GTP	C4'-C5'-O5'-PA
47	WK	501	GTP	C4'-C5'-O5'-PA
47	WM	501	GTP	C4'-C5'-O5'-PA
47	CE	501	GTP	C4'-C5'-O5'-PA
47	DC	501	GTP	C4'-C5'-O5'-PA
47	AG	501	GTP	C3'-C4'-C5'-O5'
47	DK	501	GTP	C3'-C4'-C5'-O5'
47	HG	501	GTP	C3'-C4'-C5'-O5'
47	KM	501	GTP	O4'-C4'-C5'-O5'
47	DC	501	GTP	O4'-C4'-C5'-O5'
49	LD	501	GDP	C3'-C4'-C5'-O5'
49	LH	501	GDP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
47	AC	501	GTP	PA-O3A-PB-O2B
47	AE	501	GTP	PA-O3A-PB-O2B
47	AG	501	GTP	PA-O3A-PB-O2B
47	AK	501	GTP	PB-O3A-PA-O1A
47	BE	501	GTP	PA-O3A-PB-O2B
47	BI	501	GTP	PA-O3A-PB-O2B
47	CC	501	GTP	PA-O3A-PB-O2B
47	CG	501	GTP	PA-O3A-PB-O2B
47	DE	501	GTP	PA-O3A-PB-O2B
47	DI	501	GTP	PA-O3A-PB-O2B
47	EA	501	GTP	PA-O3A-PB-O1B
47	EC	501	GTP	PA-O3A-PB-O2B
47	EE	501	GTP	PA-O3A-PB-O2B
47	EG	501	GTP	PA-O3A-PB-O2B
47	EK	501	GTP	PA-O3A-PB-O2B
47	EM	501	GTP	PA-O3A-PB-O2B
47	FC	501	GTP	PA-O3A-PB-O2B
47	FI	501	GTP	PA-O3A-PB-O2B
47	FK	501	GTP	PA-O3A-PB-O1B
47	GC	501	GTP	PA-O3A-PB-O2B
47	GE	501	GTP	PA-O3A-PB-O2B
47	GG	501	GTP	PA-O3A-PB-O2B
47	GI	501	GTP	PA-O3A-PB-O2B
47	HC	501	GTP	PA-O3A-PB-O2B
47	HI	501	GTP	PA-O3A-PB-O2B
47	HK	501	GTP	PA-O3A-PB-O2B
47	HM	501	GTP	PA-O3A-PB-O2B
47	IA	501	GTP	PA-O3A-PB-O2B
47	IE	501	GTP	PA-O3A-PB-O2B
47	IG	501	GTP	PA-O3A-PB-O1B
47	II	501	GTP	PA-O3A-PB-O2B
47	IK	501	GTP	PA-O3A-PB-O2B
47	IM	501	GTP	PA-O3A-PB-O1B
47	JA	501	GTP	PA-O3A-PB-O2B
47	JE	501	GTP	PA-O3A-PB-O2B
47	JG	501	GTP	PA-O3A-PB-O2B
47	JM	501	GTP	PA-O3A-PB-O2B
47	KC	501	GTP	PA-O3A-PB-O2B
47	KG	501	GTP	PA-O3A-PB-O2B
47	KK	501	GTP	PA-O3A-PB-O2B
47	LA	501	GTP	PA-O3A-PB-O2B
47	LE	501	GTP	PA-O3A-PB-O2B

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Mol	Chain	Res	Type	Atoms
47	LK	501	GTP	PB-O3A-PA-O1A
47	MA	501	GTP	PA-O3A-PB-O1B
47	ME	501	GTP	PA-O3A-PB-O2B
47	PD	501	GTP	PA-O3A-PB-O2B
47	PG	501	GTP	PA-O3A-PB-O2B
47	QC	501	GTP	PA-O3A-PB-O2B
47	QK	501	GTP	PB-O3A-PA-O1A
47	RC	501	GTP	PA-O3A-PB-O1B
47	RE	501	GTP	PA-O3A-PB-O2B
47	RG	501	GTP	PA-O3A-PB-O2B
47	RI	501	GTP	PA-O3A-PB-O2B
47	RK	501	GTP	PA-O3A-PB-O2B
47	SA	501	GTP	PA-O3A-PB-O1B
47	SI	501	GTP	PA-O3A-PB-O2B
47	TA	501	GTP	PA-O3A-PB-O1B
47	TC	501	GTP	PA-O3A-PB-O2B
47	TI	501	GTP	PA-O3A-PB-O1B
47	TK	501	GTP	PA-O3A-PB-O2B
47	TM	501	GTP	PA-O3A-PB-O1B
47	UA	501	GTP	PA-O3A-PB-O1B
47	UC	501	GTP	PA-O3A-PB-O2B
47	UE	501	GTP	PA-O3A-PB-O2B
47	UG	501	GTP	PA-O3A-PB-O1B
47	UM	501	GTP	PA-O3A-PB-O2B
47	WC	501	GTP	PB-O3A-PA-O1A
47	WG	501	GTP	PA-O3A-PB-O2B
47	WM	501	GTP	PA-O3A-PB-O2B
47	CE	501	GTP	PA-O3A-PB-O2B
47	DG	501	GTP	C3'-C4'-C5'-O5'
47	SI	501	GTP	C3'-C4'-C5'-O5'
47	UK	501	GTP	C3'-C4'-C5'-O5'
47	VI	501	GTP	C3'-C4'-C5'-O5'
49	RF	501	GDP	C3'-C4'-C5'-O5'
47	NK	501	GTP	C4'-C5'-O5'-PA
47	OG	501	GTP	C4'-C5'-O5'-PA
47	QI	501	GTP	C4'-C5'-O5'-PA
47	KA	501	GTP	O4'-C4'-C5'-O5'
47	WA	501	GTP	O4'-C4'-C5'-O5'
49	MJ	501	GDP	C3'-C4'-C5'-O5'
47	DG	501	GTP	C4'-C5'-O5'-PA
47	NM	501	GTP	C4'-C5'-O5'-PA
47	QM	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
47	OA	501	GTP	C4'-C5'-O5'-PA
47	QG	501	GTP	C4'-C5'-O5'-PA
47	AI	501	GTP	O4'-C4'-C5'-O5'
47	EG	501	GTP	O4'-C4'-C5'-O5'
47	FA	501	GTP	O4'-C4'-C5'-O5'
47	JE	501	GTP	O4'-C4'-C5'-O5'
47	KC	501	GTP	C3'-C4'-C5'-O5'
47	KI	501	GTP	O4'-C4'-C5'-O5'
47	LA	501	GTP	O4'-C4'-C5'-O5'
47	LC	501	GTP	O4'-C4'-C5'-O5'
47	LG	501	GTP	O4'-C4'-C5'-O5'
47	MG	501	GTP	O4'-C4'-C5'-O5'
47	NG	501	GTP	O4'-C4'-C5'-O5'
49	MB	501	GDP	O4'-C4'-C5'-O5'
47	DG	501	GTP	PB-O3A-PA-O1A
47	EA	501	GTP	PA-O3A-PB-O2B
47	FM	501	GTP	PA-O3A-PB-O1B
47	HK	501	GTP	PA-O3A-PB-O1B
47	IG	501	GTP	PA-O3A-PB-O2B
47	JI	501	GTP	PA-O3A-PB-O2B
47	JK	501	GTP	PA-O3A-PB-O2B
47	JK	501	GTP	PB-O3A-PA-O1A
47	ME	501	GTP	PA-O3A-PB-O1B
47	NA	501	GTP	PB-O3A-PA-O1A
47	PD	501	GTP	PA-O3A-PB-O1B
47	PK	501	GTP	PA-O3A-PB-O2B
47	QM	501	GTP	PA-O3A-PB-O2B
47	RA	501	GTP	PA-O3A-PB-O2B
47	RC	501	GTP	PA-O3A-PB-O2B
47	RI	501	GTP	PA-O3A-PB-O1B
47	SA	501	GTP	PA-O3A-PB-O2B
47	TA	501	GTP	PA-O3A-PB-O2B
47	TC	501	GTP	PA-O3A-PB-O1B
47	UA	501	GTP	PA-O3A-PB-O2B
47	UE	501	GTP	PA-O3A-PB-O1B
47	VM	501	GTP	PA-O3A-PB-O2B
47	WE	501	GTP	PA-O3A-PB-O2B
47	WG	501	GTP	PA-O3A-PB-O1B
47	AA	501	GTP	PB-O3A-PA-O5'
47	LK	501	GTP	PB-O3A-PA-O5'
47	OM	501	GTP	PB-O3A-PA-O5'
47	QK	501	GTP	PB-O3A-PA-O5'

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Mol	Chain	Res	Type	Atoms
47	LG	501	GTP	C4'-C5'-O5'-PA
47	NC	501	GTP	C4'-C5'-O5'-PA
47	NG	501	GTP	C4'-C5'-O5'-PA
47	OF	501	GTP	C4'-C5'-O5'-PA
49	LF	501	GDP	C3'-C4'-C5'-O5'
49	RJ	501	GDP	O4'-C4'-C5'-O5'
49	TD	501	GDP	O4'-C4'-C5'-O5'
47	JI	501	GTP	O4'-C4'-C5'-O5'
49	LJ	501	GDP	C3'-C4'-C5'-O5'
49	SD	501	GDP	C3'-C4'-C5'-O5'
49	WJ	501	GDP	O4'-C4'-C5'-O5'
47	NG	501	GTP	PB-O3B-PG-O1G
47	NK	501	GTP	PB-O3B-PG-O2G
47	OG	501	GTP	PB-O3B-PG-O2G
47	OI	501	GTP	C4'-C5'-O5'-PA
47	OM	501	GTP	C4'-C5'-O5'-PA
47	DE	501	GTP	O4'-C4'-C5'-O5'
47	HC	501	GTP	C3'-C4'-C5'-O5'
47	KE	501	GTP	O4'-C4'-C5'-O5'
47	KG	501	GTP	O4'-C4'-C5'-O5'
47	TK	501	GTP	O4'-C4'-C5'-O5'
49	FJ	501	GDP	O4'-C4'-C5'-O5'
47	DK	501	GTP	O4'-C4'-C5'-O5'
47	JA	501	GTP	O4'-C4'-C5'-O5'
49	DD	501	GDP	C3'-C4'-C5'-O5'
49	SL	501	GDP	C3'-C4'-C5'-O5'
47	AC	501	GTP	PA-O3A-PB-O1B
47	AE	501	GTP	PA-O3A-PB-O1B
47	AG	501	GTP	PA-O3A-PB-O1B
47	AM	501	GTP	PA-O3A-PB-O2B
47	BA	501	GTP	PA-O3A-PB-O2B
47	BC	502	GTP	PA-O3A-PB-O1B
47	BE	501	GTP	PA-O3A-PB-O1B
47	BG	501	GTP	PA-O3A-PB-O1B
47	BI	501	GTP	PA-O3A-PB-O1B
47	BK	501	GTP	PA-O3A-PB-O2B
47	CA	501	GTP	PA-O3A-PB-O2B
47	CC	501	GTP	PA-O3A-PB-O1B
47	CG	501	GTP	PA-O3A-PB-O1B
47	CI	501	GTP	PA-O3A-PB-O2B
47	DA	501	GTP	PA-O3A-PB-O1B
47	DE	501	GTP	PA-O3A-PB-O1B

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Mol	Chain	Res	Type	Atoms
47	DI	501	GTP	PA-O3A-PB-O1B
47	DK	501	GTP	PA-O3A-PB-O1B
47	FA	501	GTP	PA-O3A-PB-O2B
47	FC	501	GTP	PA-O3A-PB-O1B
47	FE	501	GTP	PA-O3A-PB-O2B
47	FG	501	GTP	PA-O3A-PB-O1B
47	FK	501	GTP	PA-O3A-PB-O2B
47	FM	501	GTP	PA-O3A-PB-O2B
47	GA	501	GTP	PA-O3A-PB-O2B
47	GG	501	GTP	PA-O3A-PB-O1B
47	GK	501	GTP	PA-O3A-PB-O2B
47	GM	501	GTP	PA-O3A-PB-O2B
47	HG	501	GTP	PA-O3A-PB-O2B
47	HM	501	GTP	PA-O3A-PB-O1B
47	IC	501	GTP	PA-O3A-PB-O1B
47	IE	501	GTP	PA-O3A-PB-O1B
47	II	501	GTP	PA-O3A-PB-O1B
47	IM	501	GTP	PA-O3A-PB-O2B
47	JC	501	GTP	PB-O3A-PA-O1A
47	JI	501	GTP	PA-O3A-PB-O1B
47	KA	501	GTP	PA-O3A-PB-O1B
47	KK	501	GTP	PA-O3A-PB-O1B
47	LA	501	GTP	PA-O3A-PB-O1B
47	LC	501	GTP	PB-O3A-PA-O2A
47	LG	501	GTP	PB-O3A-PA-O1A
47	LI	501	GTP	PA-O3A-PB-O1B
47	LK	501	GTP	PA-O3A-PB-O2B
47	LM	501	GTP	PA-O3A-PB-O1B
47	MA	501	GTP	PA-O3A-PB-O2B
47	MC	501	GTP	PA-O3A-PB-O1B
47	NE	501	GTP	PB-O3A-PA-O1A
47	OK	501	GTP	PB-O3A-PA-O2A
47	PA	501	GTP	PA-O3A-PB-O1B
47	PK	501	GTP	PA-O3A-PB-O1B
47	QA	501	GTP	PA-O3A-PB-O2B
47	QC	501	GTP	PA-O3A-PB-O1B
47	QI	501	GTP	PA-O3A-PB-O1B
47	QK	501	GTP	PA-O3A-PB-O1B
47	QK	501	GTP	PA-O3A-PB-O2B
47	QM	501	GTP	PA-O3A-PB-O1B
47	RE	501	GTP	PA-O3A-PB-O1B
47	RG	501	GTP	PA-O3A-PB-O1B

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Mol	Chain	Res	Type	Atoms
47	RM	501	GTP	PA-O3A-PB-O1B
47	SE	501	GTP	PA-O3A-PB-O2B
47	SG	501	GTP	PA-O3A-PB-O2B
47	SK	501	GTP	PA-O3A-PB-O2B
47	SM	501	GTP	PA-O3A-PB-O1B
47	TE	501	GTP	PA-O3A-PB-O1B
47	TK	501	GTP	PA-O3A-PB-O1B
47	TM	501	GTP	PA-O3A-PB-O2B
47	UC	501	GTP	PA-O3A-PB-O1B
47	UI	501	GTP	PA-O3A-PB-O2B
47	VC	501	GTP	PA-O3A-PB-O1B
47	VE	501	GTP	PB-O3A-PA-O1A
47	VG	501	GTP	PA-O3A-PB-O1B
47	VG	501	GTP	PA-O3A-PB-O2B
47	VK	501	GTP	PA-O3A-PB-O1B
47	WE	501	GTP	PA-O3A-PB-O1B
47	WM	501	GTP	PA-O3A-PB-O1B
47	CE	501	GTP	PA-O3A-PB-O1B
47	DC	501	GTP	PA-O3A-PB-O1B
47	DC	501	GTP	PA-O3A-PB-O2B
49	BN	501	GDP	O4'-C4'-C5'-O5'
47	OG	501	GTP	PB-O3B-PG-O1G
47	AG	501	GTP	O4'-C4'-C5'-O5'
47	DG	501	GTP	O4'-C4'-C5'-O5'
47	HG	501	GTP	O4'-C4'-C5'-O5'
47	SI	501	GTP	O4'-C4'-C5'-O5'
47	VI	501	GTP	O4'-C4'-C5'-O5'
49	RF	501	GDP	O4'-C4'-C5'-O5'
47	EE	501	GTP	PA-O3A-PB-O1B
47	EG	501	GTP	PA-O3A-PB-O1B
47	EK	501	GTP	PA-O3A-PB-O1B
47	EM	501	GTP	PA-O3A-PB-O1B
47	FI	501	GTP	PA-O3A-PB-O1B
47	GC	501	GTP	PA-O3A-PB-O1B
47	GI	501	GTP	PA-O3A-PB-O1B
47	HC	501	GTP	PA-O3A-PB-O1B
47	HI	501	GTP	PA-O3A-PB-O1B
47	IA	501	GTP	PA-O3A-PB-O1B
47	IK	501	GTP	PA-O3A-PB-O1B
47	JA	501	GTP	PA-O3A-PB-O1B
47	JE	501	GTP	PA-O3A-PB-O1B
47	JG	501	GTP	PA-O3A-PB-O1B

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Mol	Chain	Res	Type	Atoms
47	JM	501	GTP	PA-O3A-PB-O1B
47	KC	501	GTP	PA-O3A-PB-O1B
47	KG	501	GTP	PA-O3A-PB-O1B
47	LE	501	GTP	PA-O3A-PB-O1B
47	NI	501	GTP	PB-O3A-PA-O2A
47	NM	501	GTP	PB-O3A-PA-O2A
47	PE	501	GTP	PA-O3A-PB-O2B
47	PG	501	GTP	PA-O3A-PB-O1B
47	QE	501	GTP	PA-O3A-PB-O2B
47	QG	501	GTP	PB-O3A-PA-O2A
47	RK	501	GTP	PA-O3A-PB-O1B
47	SI	501	GTP	PA-O3A-PB-O1B
47	UK	501	GTP	PA-O3A-PB-O2B
47	UM	501	GTP	PA-O3A-PB-O1B
47	VI	501	GTP	PB-O3A-PA-O2A
47	WI	501	GTP	PA-O3A-PB-O2B
47	UK	501	GTP	O4'-C4'-C5'-O5'
49	AB	501	GDP	C3'-C4'-C5'-O5'
49	LD	501	GDP	O4'-C4'-C5'-O5'
49	TJ	501	GDP	C3'-C4'-C5'-O5'

There are no ring outliers.

251 monomers are involved in 487 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
49	UL	501	GDP	2	0
47	AA	501	GTP	3	0
49	CB	501	GDP	2	0
47	NA	501	GTP	3	0
47	AM	501	GTP	2	0
49	NB	501	GDP	1	0
47	QC	501	GTP	3	0
47	WM	501	GTP	1	0
49	SJ	501	GDP	1	0
49	CH	501	GDP	1	0
47	FE	501	GTP	1	0
49	HL	501	GDP	1	0
49	BF	501	GDP	4	0
49	IL	501	GDP	4	0
49	QD	501	GDP	1	0
47	FA	501	GTP	3	0
47	SA	501	GTP	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
49	DH	501	GDP	2	0
47	EK	501	GTP	3	0
47	LC	501	GTP	3	0
49	EL	501	GDP	3	0
49	TH	501	GDP	1	0
49	HD	501	GDP	1	0
49	BD	501	GDP	2	0
49	QN	501	GDP	1	0
49	ON	501	GDP	2	0
49	DL	501	GDP	1	0
49	SF	501	GDP	1	0
47	CM	501	GTP	1	0
47	KE	501	GTP	2	0
47	EI	501	GTP	1	0
47	PK	501	GTP	4	0
47	JC	501	GTP	2	0
47	UA	501	GTP	2	0
49	SB	501	GDP	1	0
49	VD	501	GDP	1	0
47	WK	501	GTP	2	0
47	WA	501	GTP	3	0
47	VM	501	GTP	2	0
47	EG	501	GTP	2	0
47	QA	501	GTP	2	0
49	FF	501	GDP	2	0
49	TJ	501	GDP	1	0
49	BH	501	GDP	2	0
47	RM	501	GTP	2	0
47	RE	501	GTP	3	0
47	RA	501	GTP	2	0
47	QM	501	GTP	2	0
47	OK	501	GTP	1	0
47	KM	501	GTP	3	0
47	SC	501	GTP	2	0
49	GF	501	GDP	1	0
47	EC	501	GTP	3	0
47	VK	501	GTP	1	0
47	DA	501	GTP	2	0
47	KG	501	GTP	2	0
47	MM	501	GTP	4	0
49	PJ	501	GDP	1	0
49	VB	501	GDP	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
47	IA	501	GTP	1	0
47	BA	501	GTP	1	0
49	JJ	501	GDP	3	0
49	UH	501	GDP	1	0
47	PA	501	GTP	2	0
49	UF	501	GDP	5	0
49	QL	501	GDP	1	0
49	IF	501	GDP	1	0
49	CF	501	GDP	6	0
47	IG	501	GTP	2	0
49	DJ	501	GDP	2	0
49	WD	501	GDP	3	0
47	KA	501	GTP	2	0
47	UI	501	GTP	2	0
49	IJ	501	GDP	3	0
49	GD	501	GDP	2	0
47	CI	501	GTP	2	0
47	CK	501	GTP	1	0
47	RI	501	GTP	1	0
49	AJ	501	GDP	2	0
47	BM	501	GTP	2	0
49	GJ	501	GDP	1	0
49	JH	501	GDP	1	0
49	TF	501	GDP	1	0
47	NG	501	GTP	1	0
49	AF	501	GDP	1	0
49	QB	501	GDP	1	0
47	NM	501	GTP	2	0
49	NJ	501	GDP	1	0
47	HG	501	GTP	2	0
47	QE	501	GTP	5	0
49	JN	501	GDP	1	0
49	SN	501	GDP	1	0
49	FL	502	GDP	2	0
49	HN	501	GDP	1	0
49	JL	501	GDP	1	0
47	OI	501	GTP	3	0
49	VL	501	GDP	3	0
49	LL	501	GDP	1	0
47	TM	501	GTP	2	0
47	SM	501	GTP	1	0
49	LJ	501	GDP	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
47	VE	501	GTP	4	0
49	CD	501	GDP	2	0
47	SI	501	GTP	2	0
47	CC	501	GTP	1	0
47	UM	501	GTP	1	0
47	QG	501	GTP	5	0
47	AG	501	GTP	1	0
47	IK	501	GTP	3	0
49	KH	501	GDP	1	0
49	OB	501	GDP	2	0
47	PE	501	GTP	1	0
49	PB	501	GDP	1	0
47	PI	501	GTP	4	0
49	CJ	501	GDP	4	0
49	OD	501	GDP	2	0
47	DG	501	GTP	3	0
47	EE	501	GTP	1	0
47	JK	501	GTP	2	0
47	TE	501	GTP	1	0
49	VN	501	GDP	2	0
49	AH	501	GDP	2	0
47	NE	501	GTP	1	0
47	RC	501	GTP	3	0
49	PH	501	GDP	2	0
47	WI	501	GTP	3	0
49	HH	501	GDP	2	0
49	WF	501	GDP	1	0
47	HA	501	GTP	1	0
49	AL	501	GDP	1	0
49	BL	501	GDP	2	0
49	DD	501	GDP	2	0
47	NK	501	GTP	1	0
47	PM	501	GTP	2	0
49	WL	501	GDP	2	0
47	DK	501	GTP	3	0
49	FH	501	GDP	4	0
49	FN	501	GDP	1	0
47	LM	501	GTP	1	0
49	UJ	501	GDP	3	0
47	LI	501	GTP	1	0
49	FJ	501	GDP	1	0
47	QK	501	GTP	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
47	RG	501	GTP	2	0
47	ME	501	GTP	1	0
47	LK	501	GTP	3	0
49	EF	501	GDP	1	0
47	SE	501	GTP	2	0
47	QI	501	GTP	3	0
49	QF	501	GDP	6	0
47	TK	501	GTP	2	0
49	MF	501	GDP	2	0
47	AI	501	GTP	1	0
47	LA	501	GTP	1	0
47	KC	501	GTP	2	0
49	UN	501	GDP	1	0
47	FK	501	GTP	1	0
47	CG	501	GTP	2	0
47	CE	501	GTP	1	0
49	IN	501	GDP	3	0
49	VF	501	GDP	2	0
47	EM	501	GTP	2	0
49	QH	501	GDP	1	0
47	IM	501	GTP	3	0
47	BE	501	GTP	4	0
47	HM	501	GTP	1	0
47	OG	501	GTP	4	0
49	OL	501	GDP	1	0
47	UG	501	GTP	1	0
49	KF	501	GDP	1	0
47	CA	501	GTP	2	0
49	QJ	501	GDP	3	0
47	OM	501	GTP	1	0
49	AN	501	GDP	1	0
47	VC	501	GTP	2	0
49	HB	501	GDP	1	0
47	IE	501	GTP	3	0
47	AC	501	GTP	1	0
49	GL	502	GDP	3	0
49	IB	501	GDP	1	0
47	DE	501	GTP	2	0
47	DC	501	GTP	3	0
47	KI	501	GTP	1	0
49	PN	502	GDP	3	0
47	UC	501	GTP	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
49	ED	501	GDP	1	0
49	TN	501	GDP	1	0
49	EH	501	GDP	4	0
47	DI	501	GTP	4	0
47	JA	501	GTP	1	0
49	RN	501	GDP	1	0
49	RB	501	GDP	1	0
47	FG	501	GTP	1	0
49	MH	501	GDP	1	0
47	FM	501	GTP	2	0
47	TC	501	GTP	3	0
47	EA	501	GTP	2	0
47	TA	501	GTP	2	0
49	VJ	501	GDP	4	0
49	DF	501	GDP	1	0
47	WE	501	GTP	1	0
49	RL	501	GDP	1	0
47	GI	501	GTP	1	0
49	WH	501	GDP	2	0
47	SK	501	GTP	4	0
47	BI	501	GTP	3	0
49	LN	501	GDP	2	0
47	MC	501	GTP	1	0
49	GN	502	GDP	1	0
49	OF	502	GDP	3	0
47	VG	501	GTP	4	0
47	TI	501	GTP	1	0
49	RH	501	GDP	1	0
47	LG	501	GTP	2	0
49	UD	501	GDP	2	0
47	VA	501	GTP	3	0
49	OJ	501	GDP	2	0
47	JG	501	GTP	2	0
47	FC	501	GTP	2	0
49	MJ	501	GDP	3	0
49	IH	501	GDP	3	0
49	HJ	501	GDP	2	0
49	VH	501	GDP	2	0
49	RJ	501	GDP	3	0
49	TD	501	GDP	1	0
49	BJ	501	GDP	2	0
47	GC	501	GTP	1	0

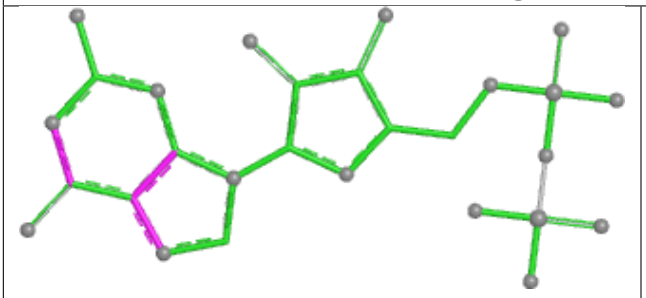
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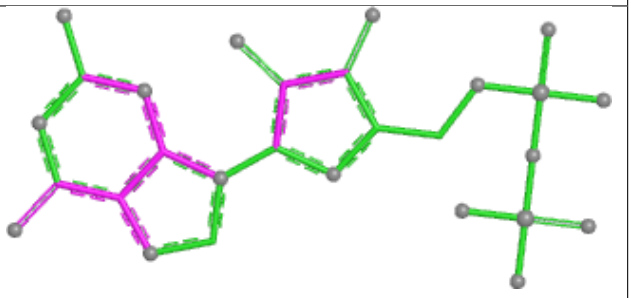
Mol	Chain	Res	Type	Clashes	Symm-Clashes
47	GM	501	GTP	2	0
47	AK	501	GTP	1	0
47	RK	501	GTP	3	0
49	DN	501	GDP	1	0
47	PG	501	GTP	4	0
47	OF	501	GTP	4	0
47	OC	501	GTP	1	0
47	WG	501	GTP	1	0
47	GK	501	GTP	1	0
47	HE	501	GTP	2	0
47	GG	501	GTP	1	0
49	HF	501	GDP	2	0
47	DM	501	GTP	2	0
47	BG	501	GTP	1	0
47	UE	501	GTP	3	0
49	JF	501	GDP	1	0
47	PD	501	GTP	3	0
49	JD	501	GDP	1	0
47	BK	501	GTP	1	0
47	JI	501	GTP	1	0
49	TL	501	GDP	1	0
49	EN	501	GDP	5	0
47	GE	501	GTP	1	0
47	TG	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 then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

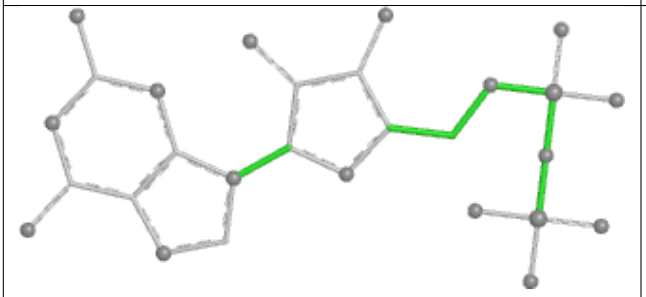
Ligand GDP UL 501



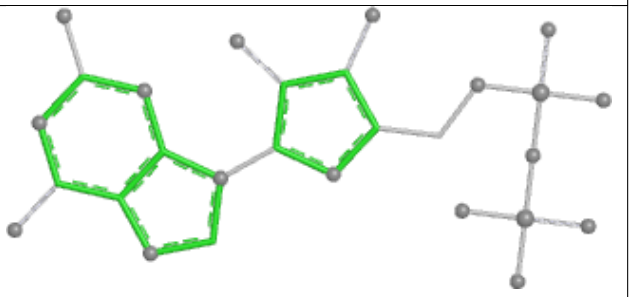
Bond lengths



Bond angles

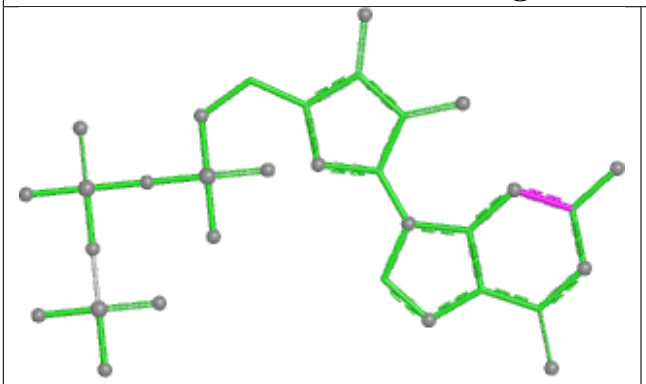


Torsions

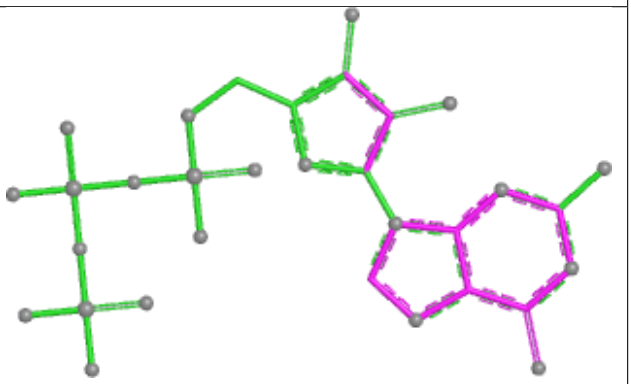


Rings

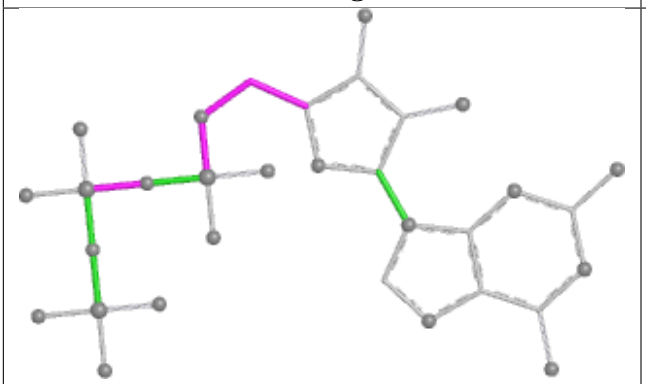
Ligand GTP SG 501



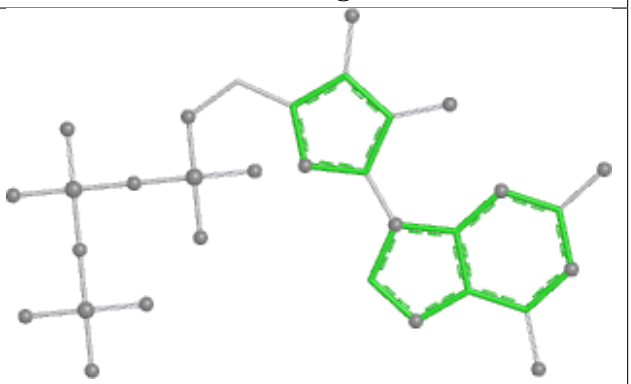
Bond lengths



Bond angles

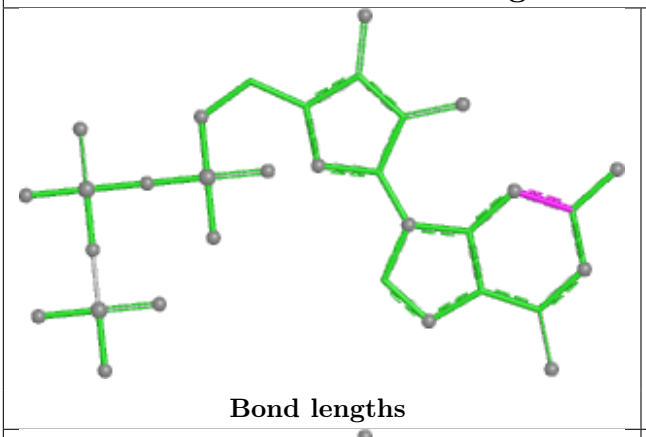


Torsions

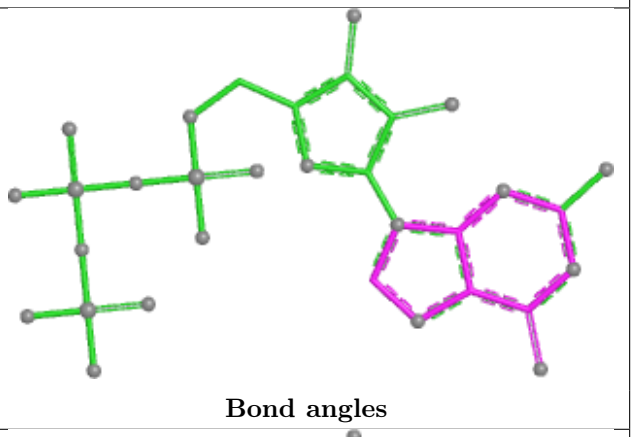


Rings

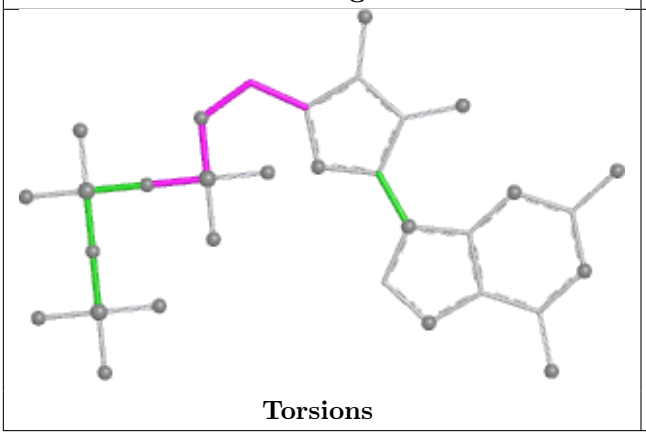
Ligand GTP AA 501



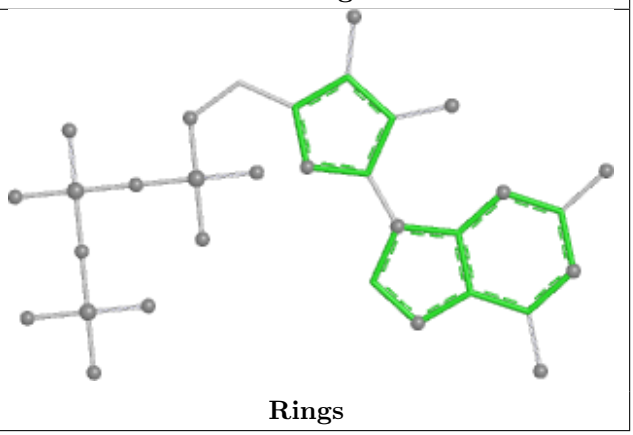
Bond lengths



Bond angles

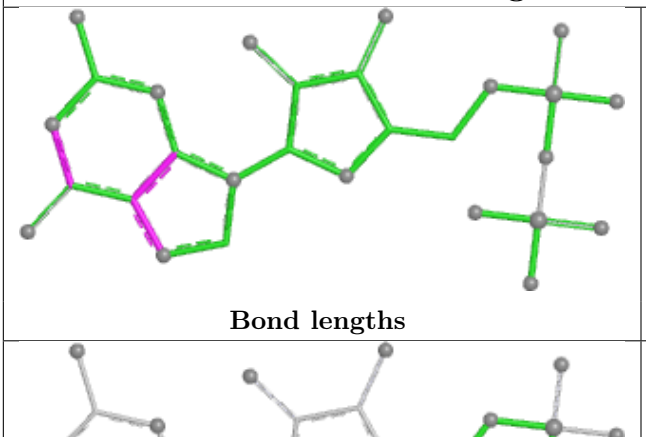


Torsions

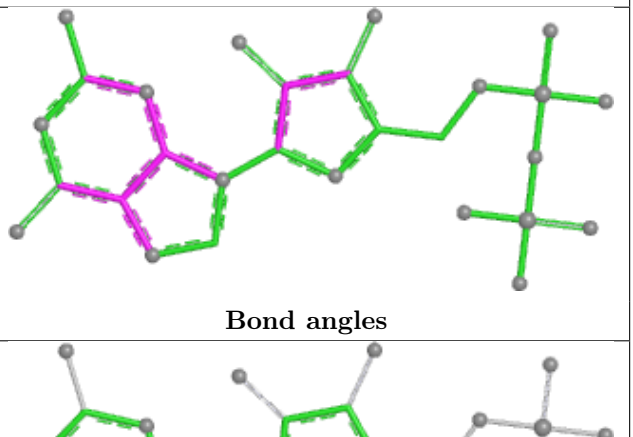


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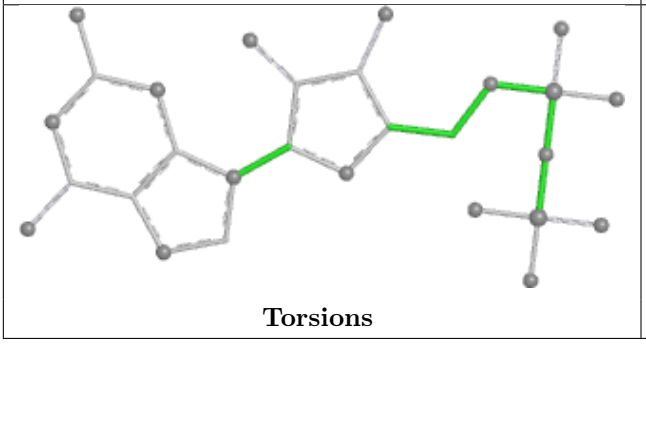
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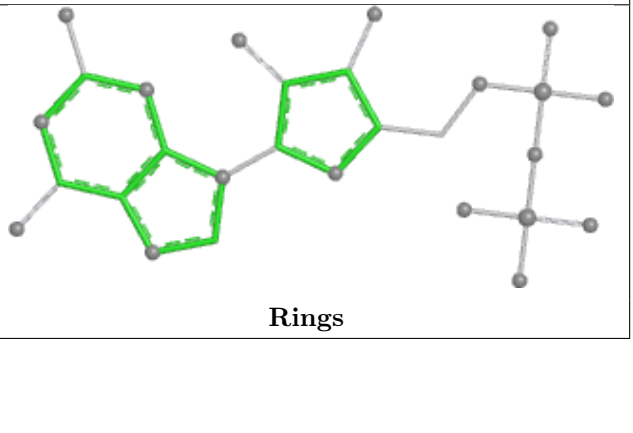
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Bond angles

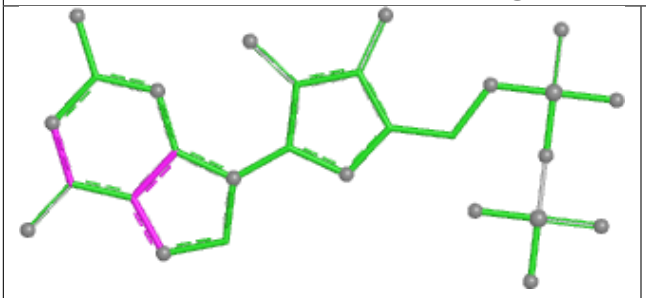


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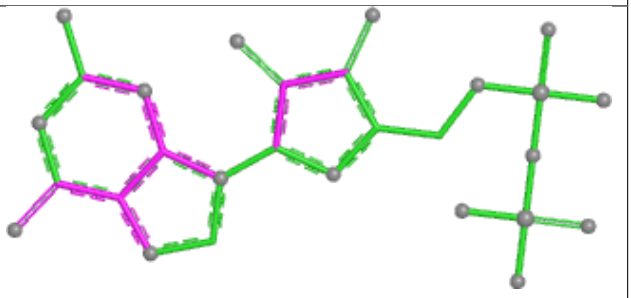


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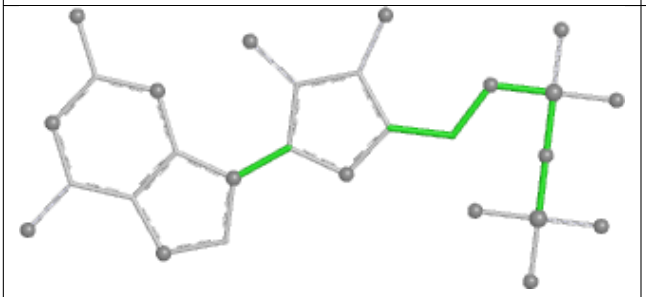
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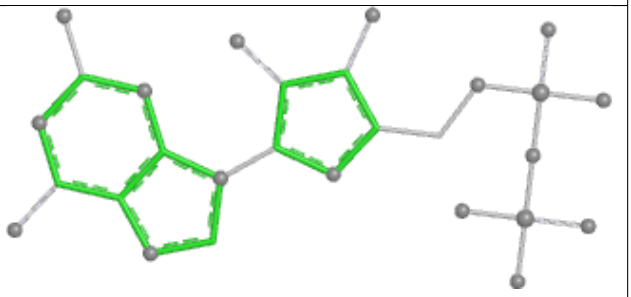
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Bond angles

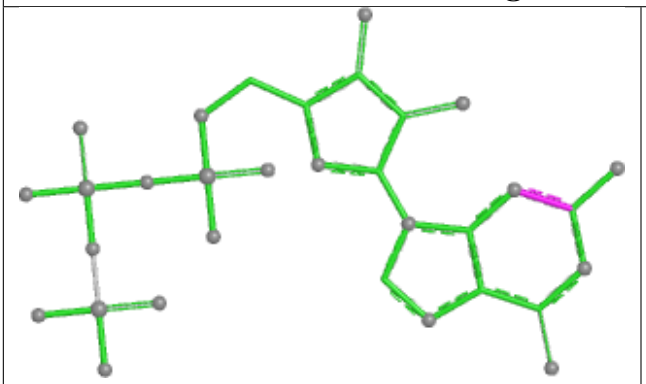


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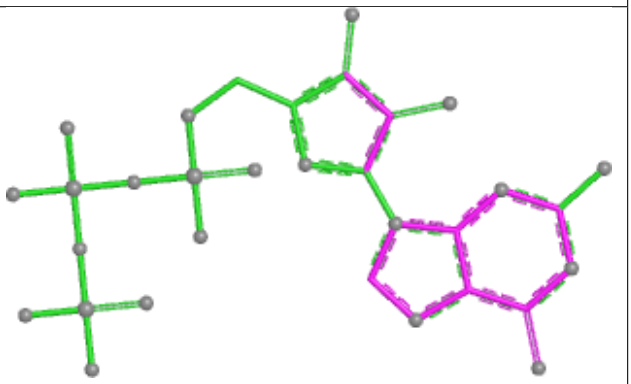


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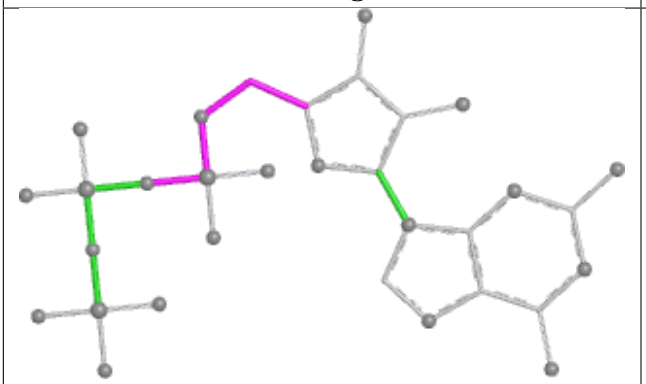
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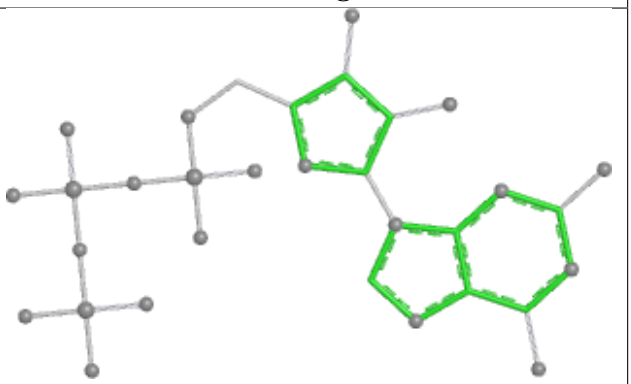
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Bond angles

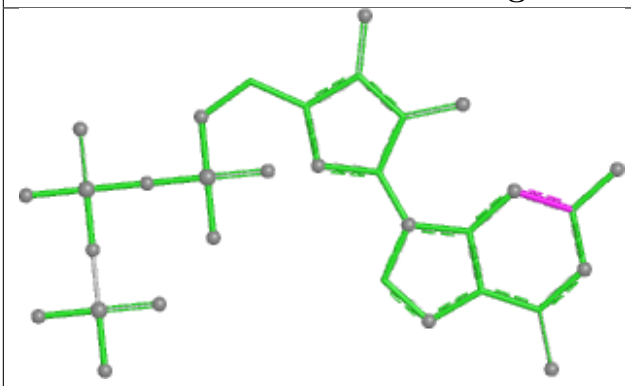


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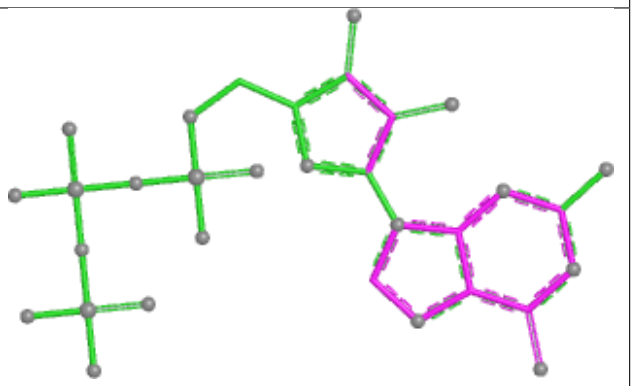


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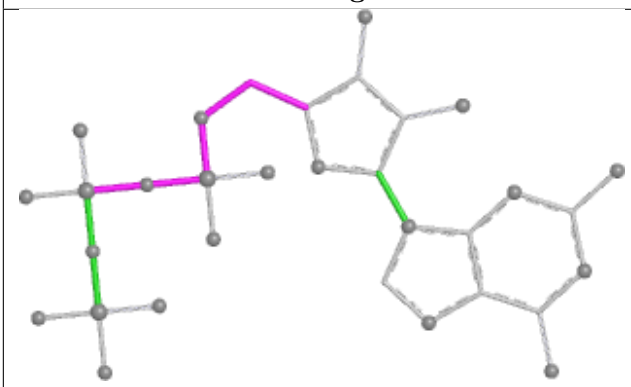
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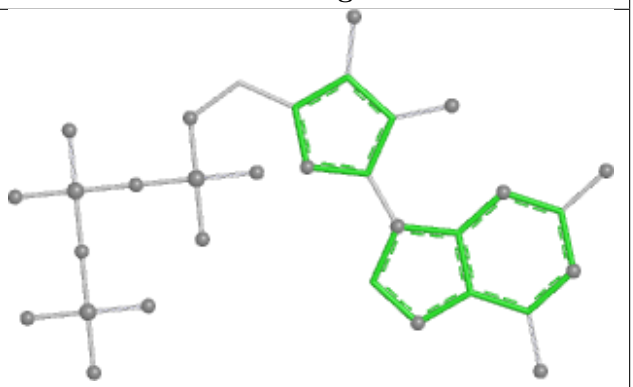
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Bond angles

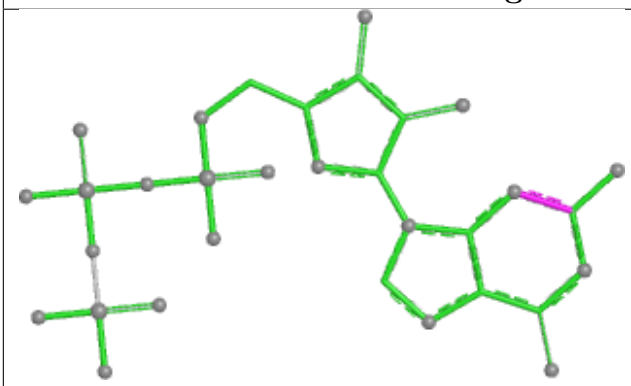


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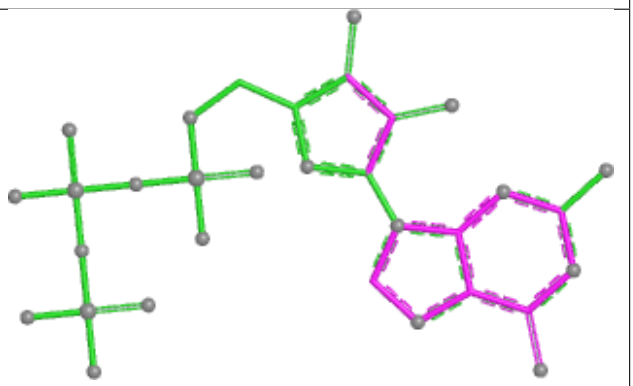


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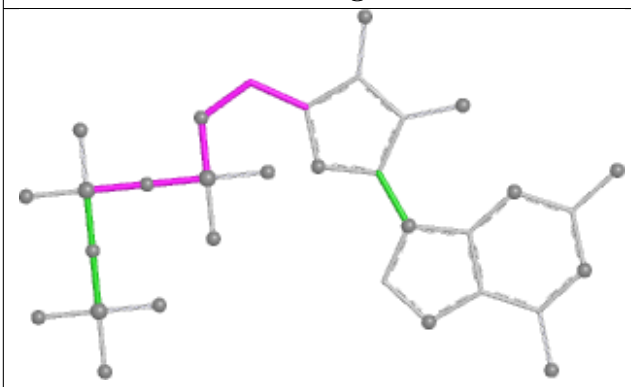
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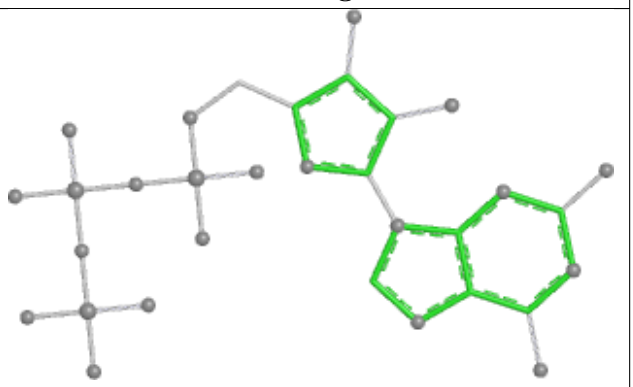
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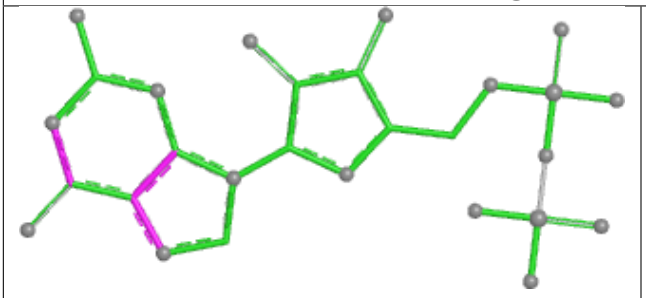


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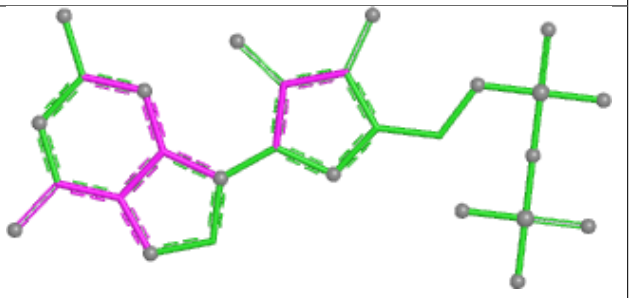


Rings

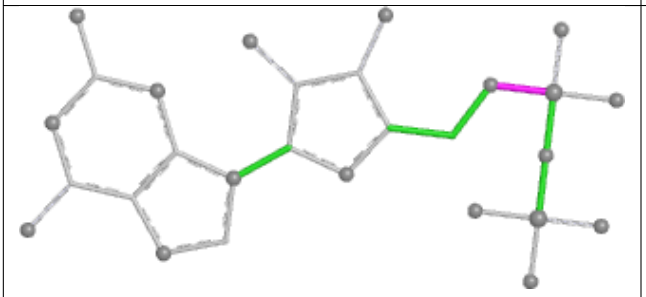
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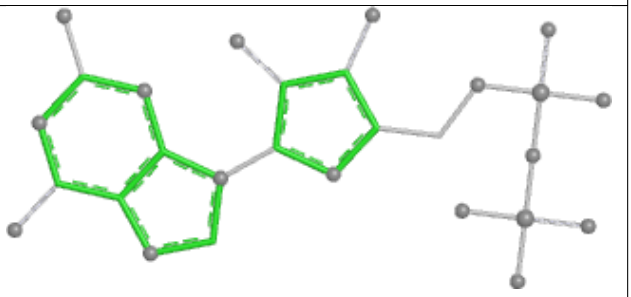
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Bond angles

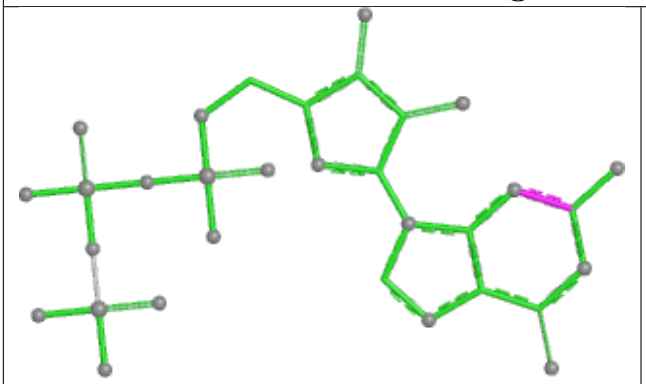


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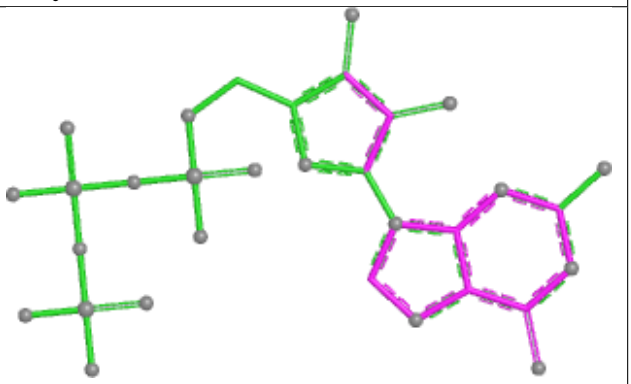


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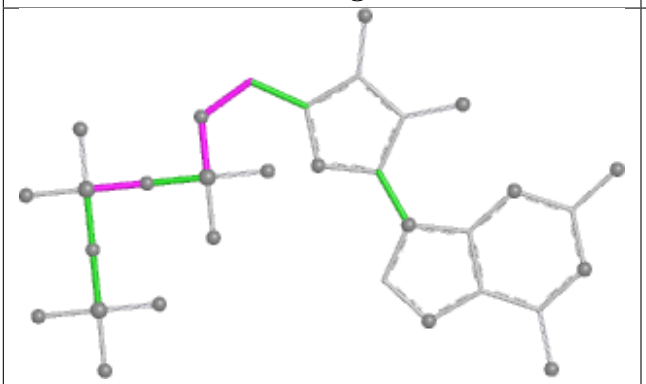
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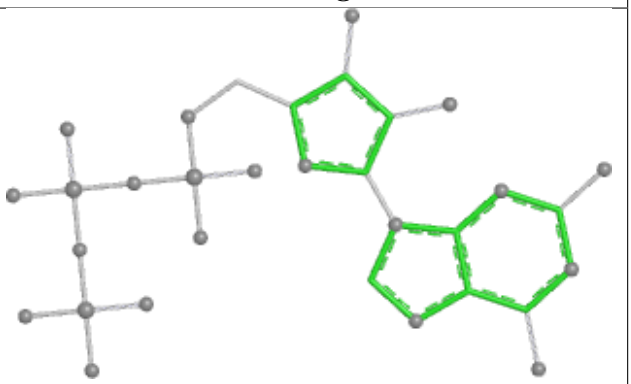
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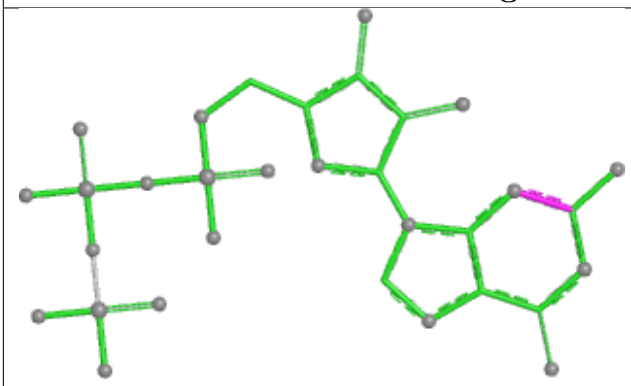


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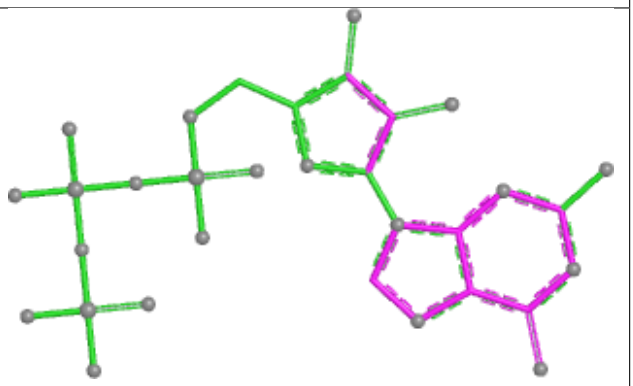


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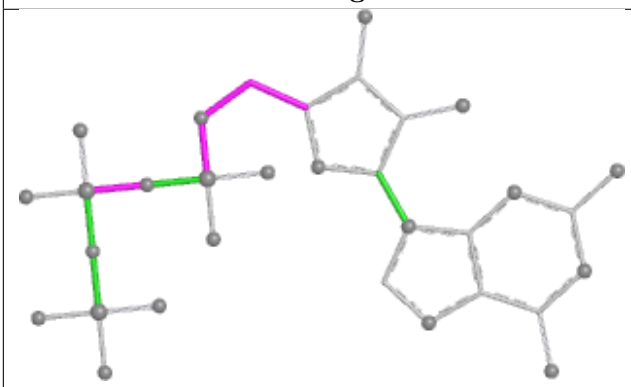
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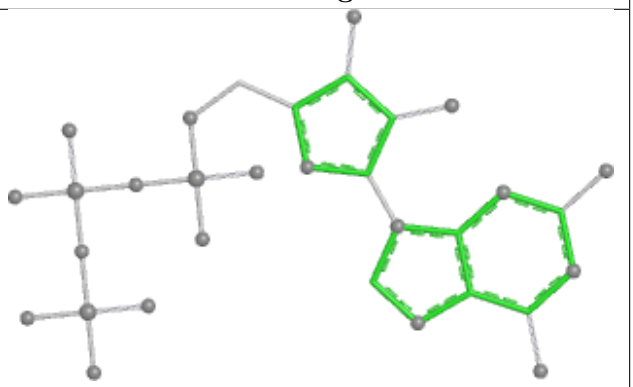
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Bond angles

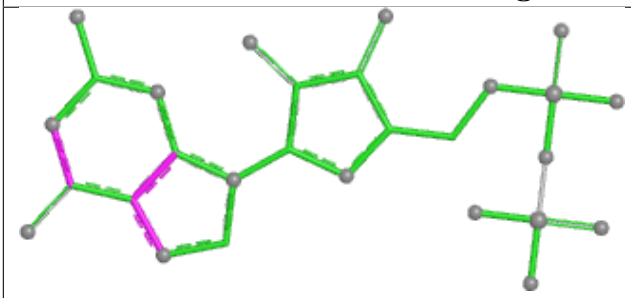


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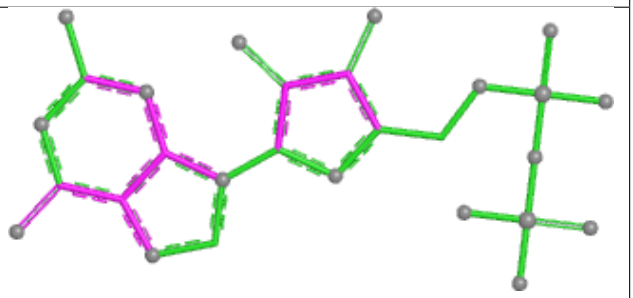


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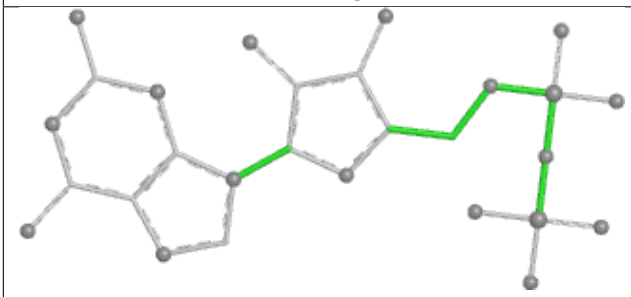
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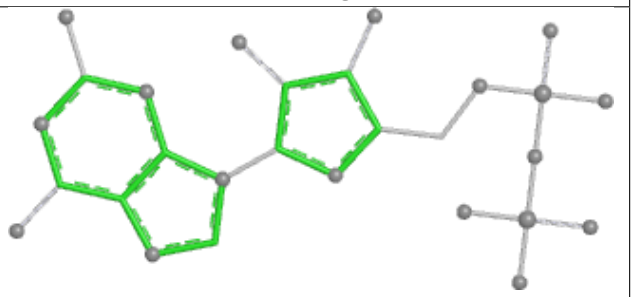
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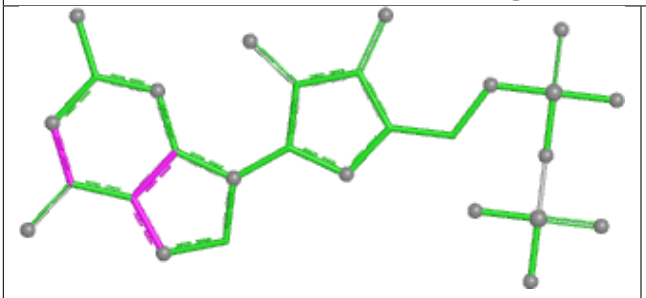


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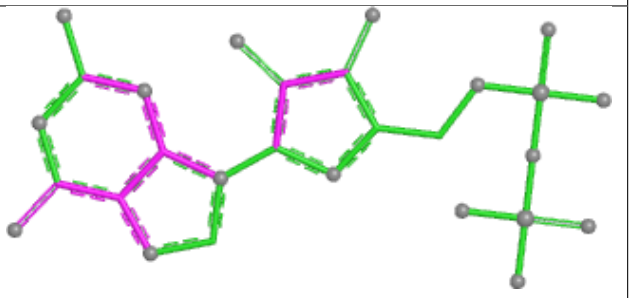


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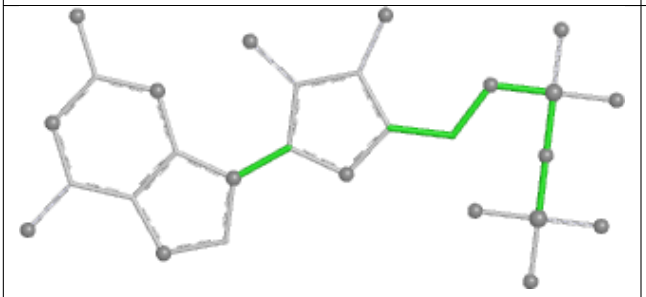
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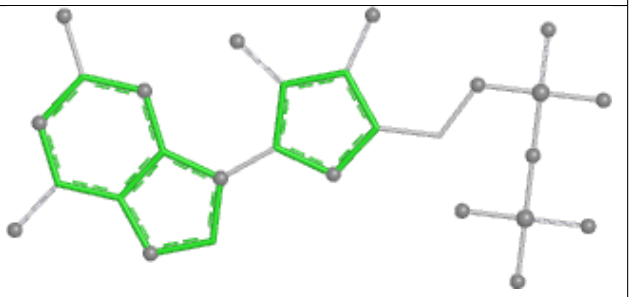
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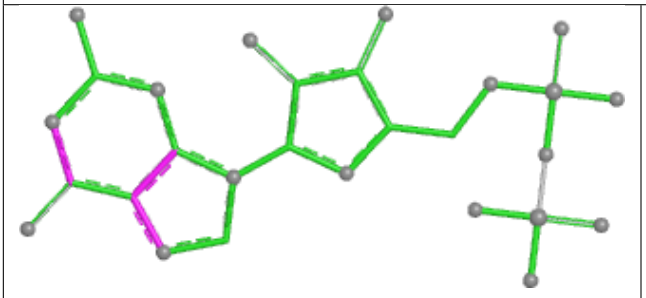


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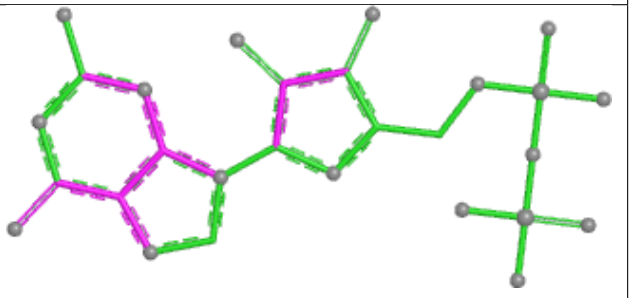


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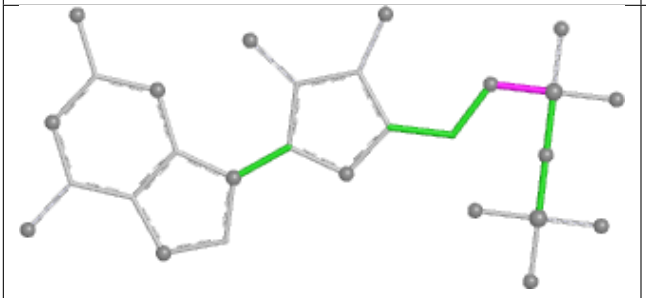
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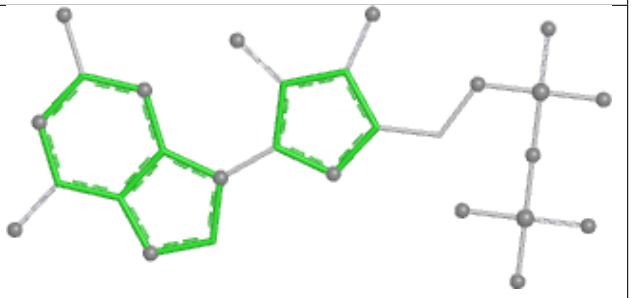
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Bond angles

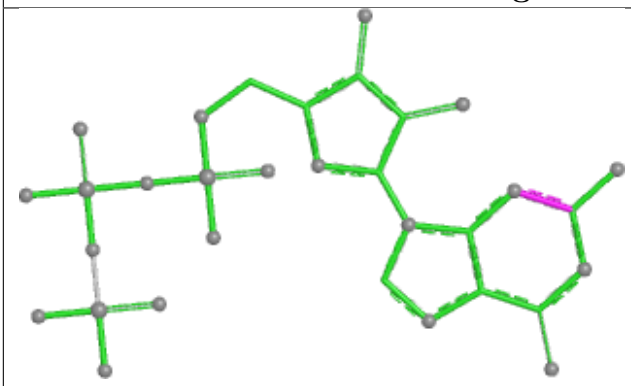


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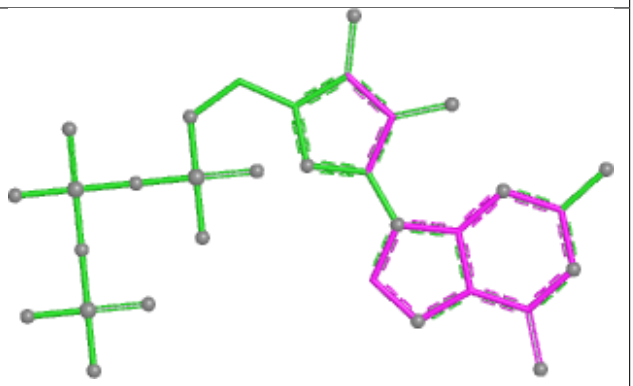


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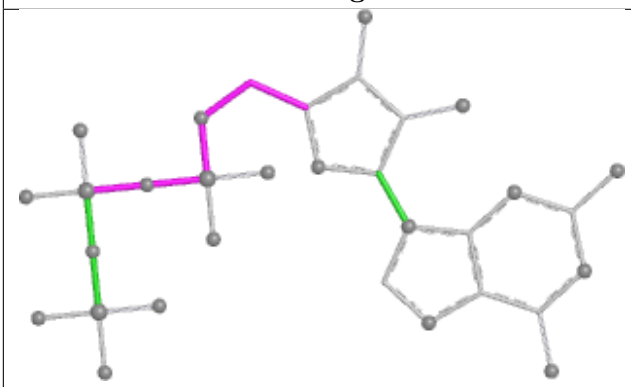
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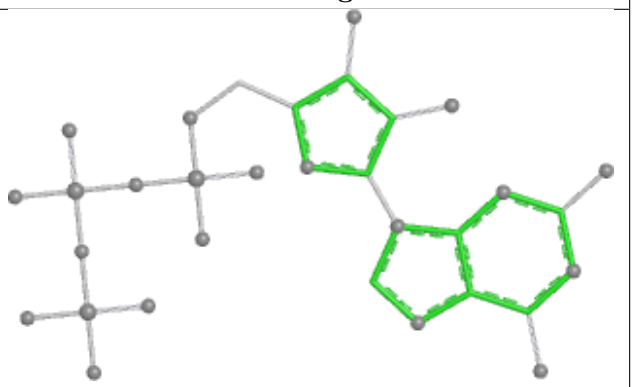
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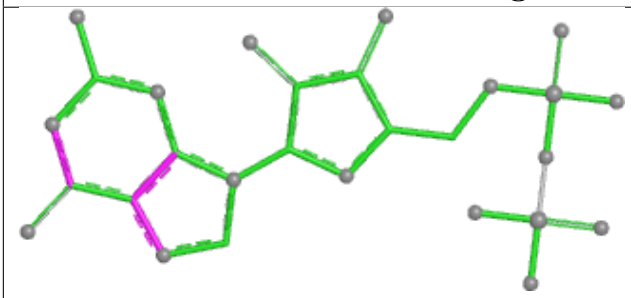


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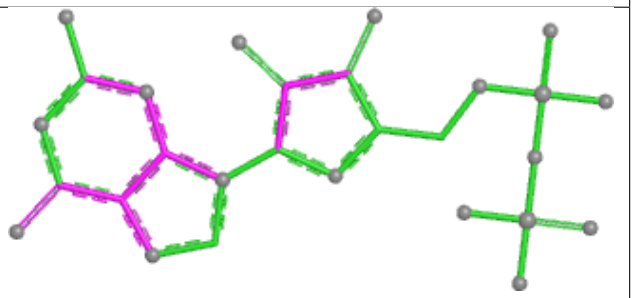


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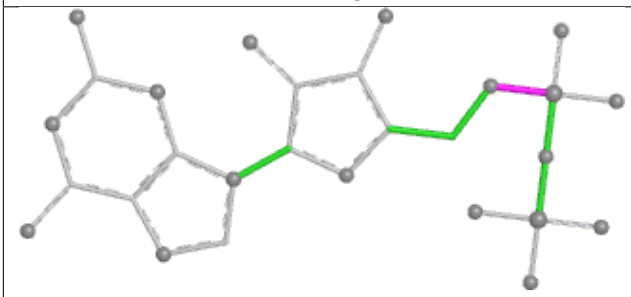
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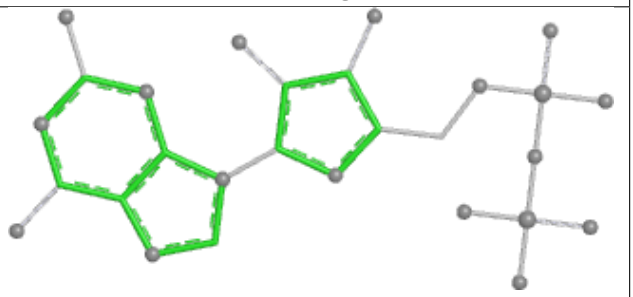
Bond lengths



Bond angles

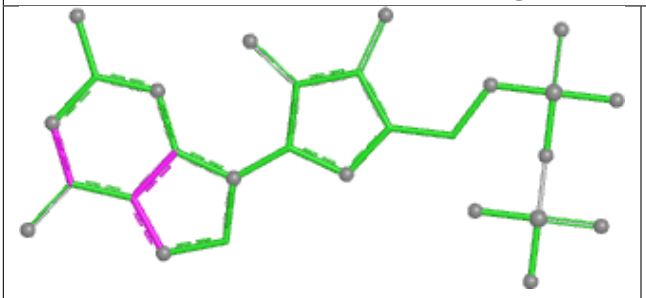


Torsions

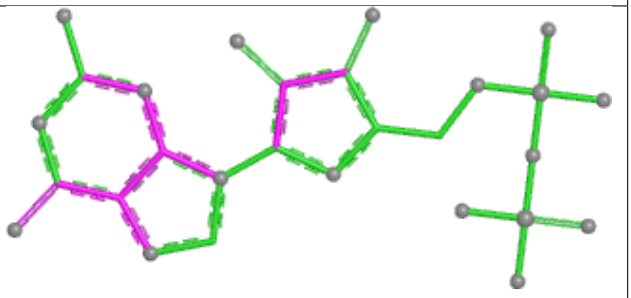


Rings

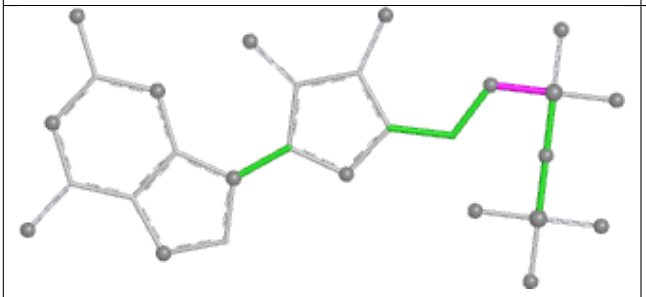
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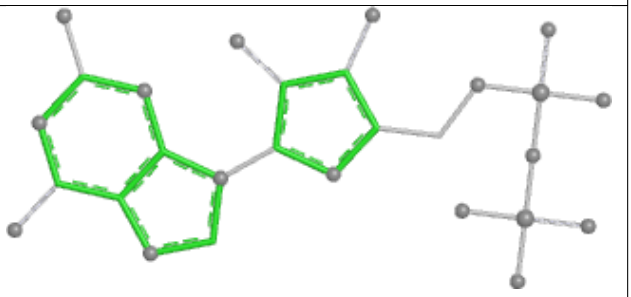
Bond lengths



Bond angles

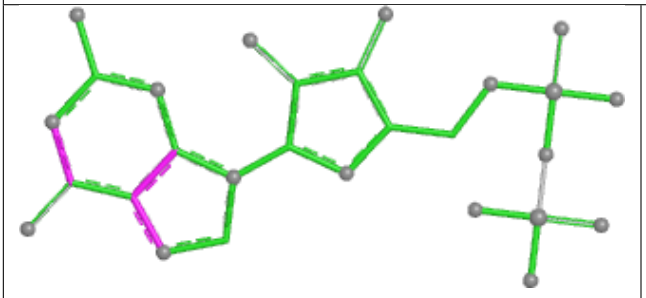


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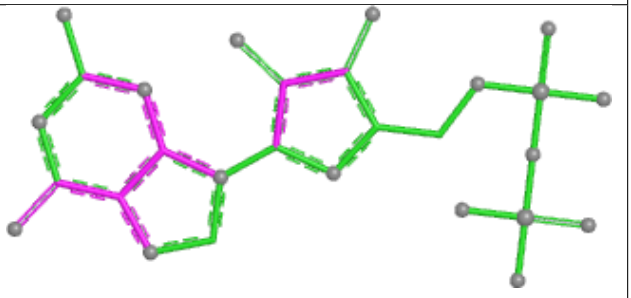


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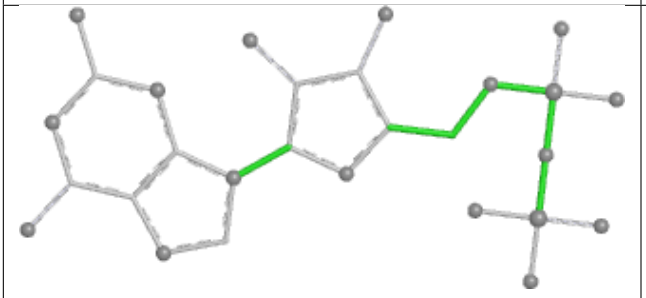
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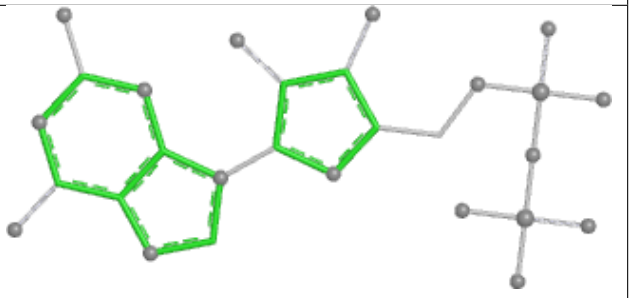
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Bond angles

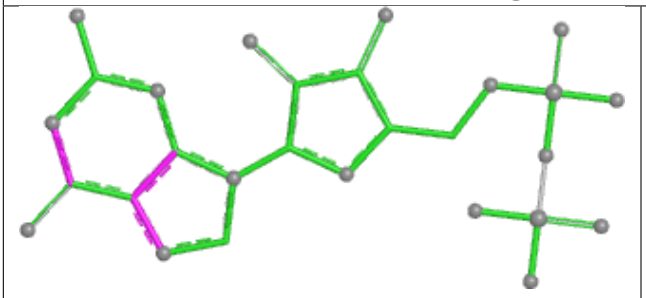


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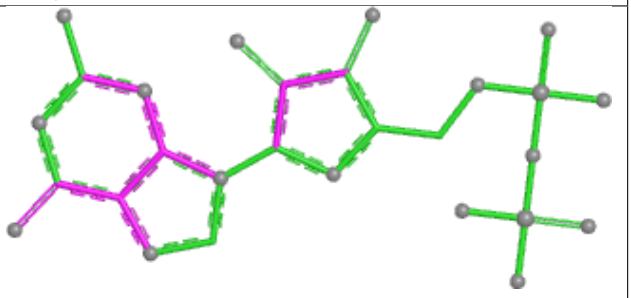


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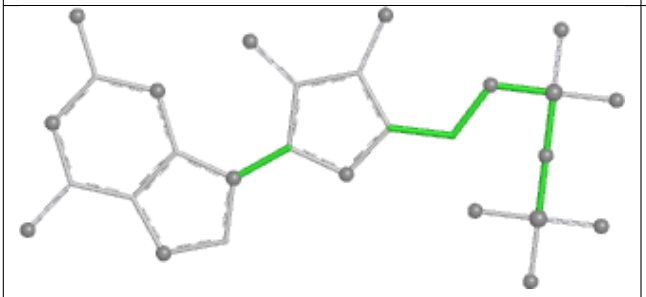
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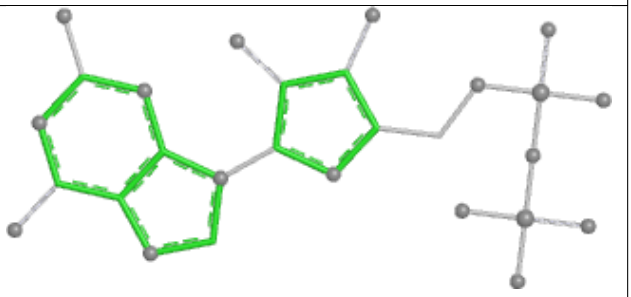
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Bond angles

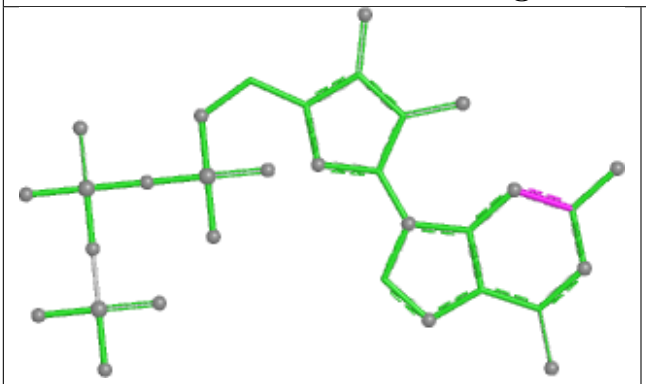


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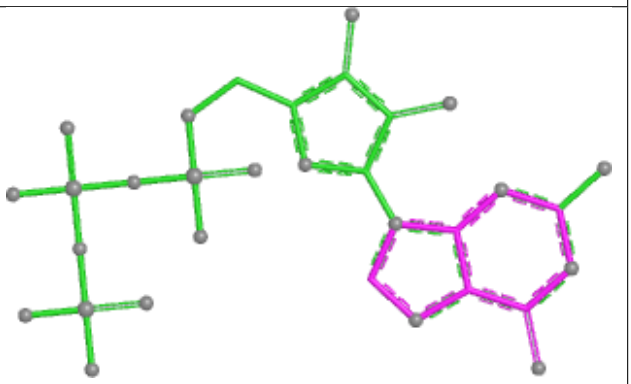


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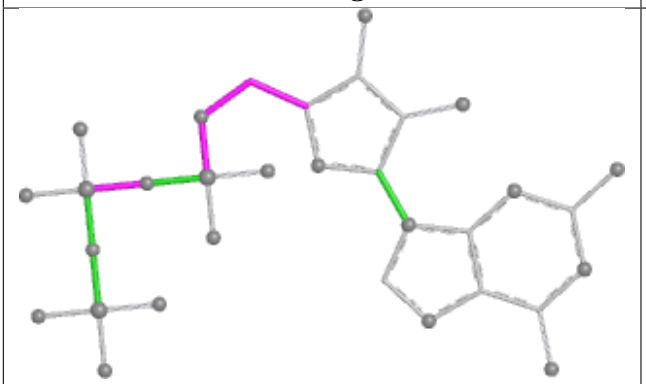
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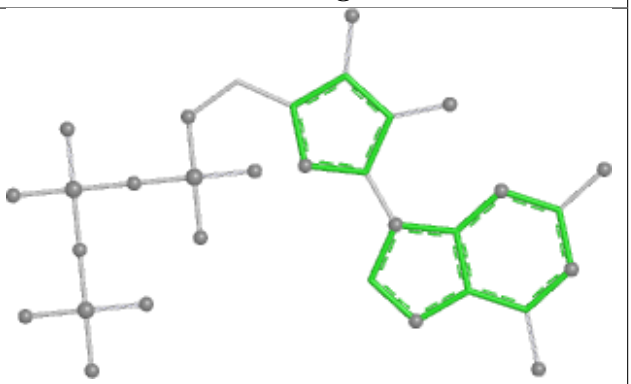
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Bond angles

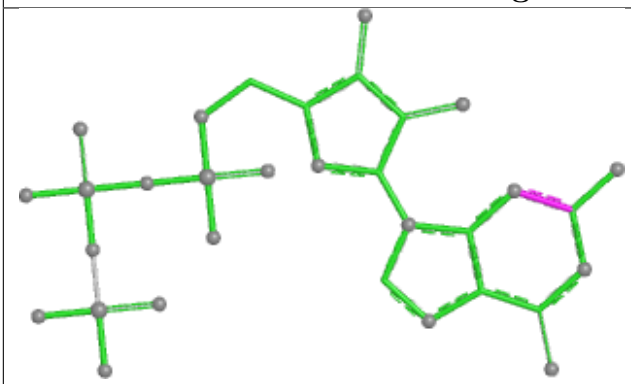


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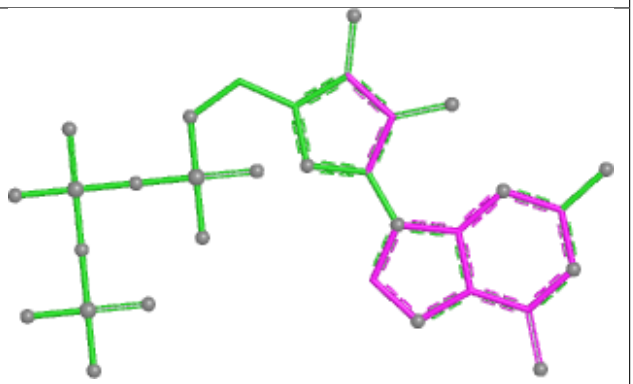


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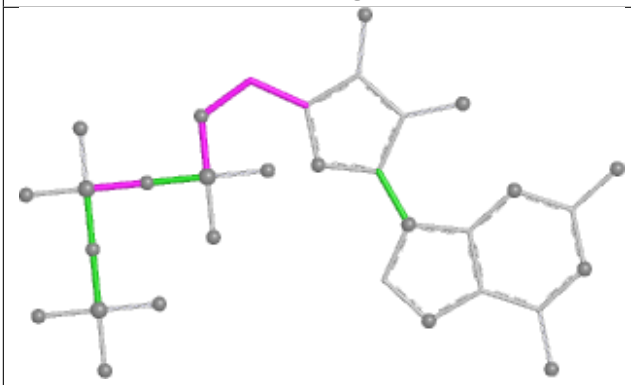
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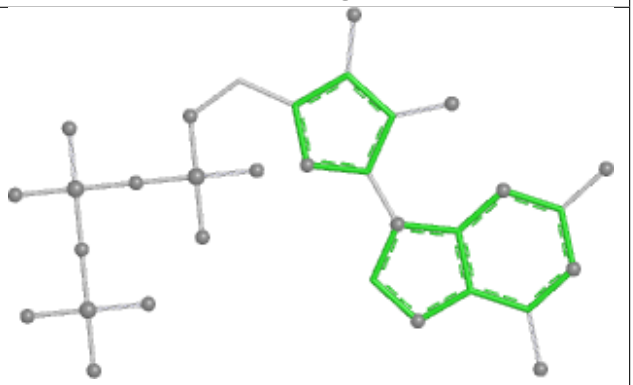
Bond lengths



Bond angles

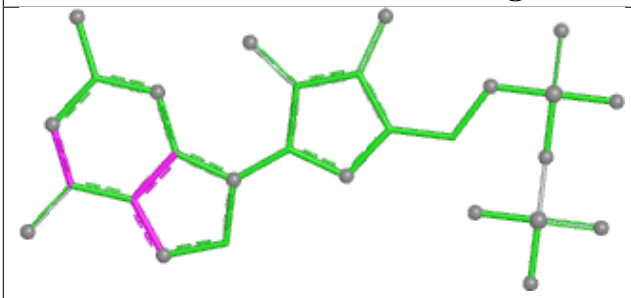


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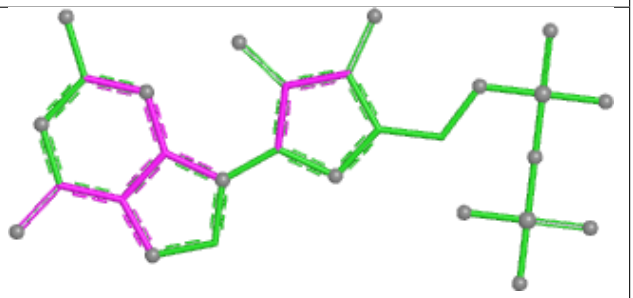


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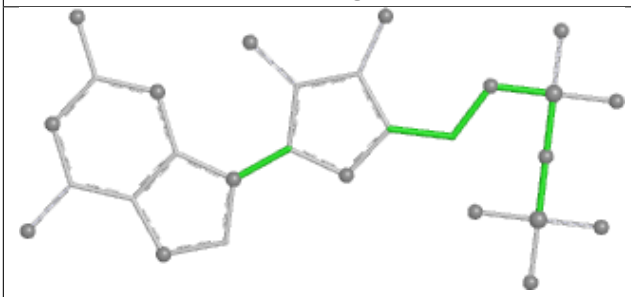
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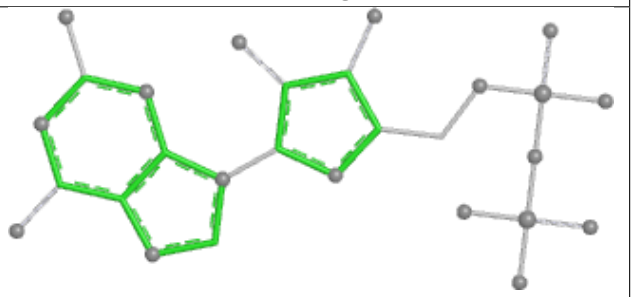
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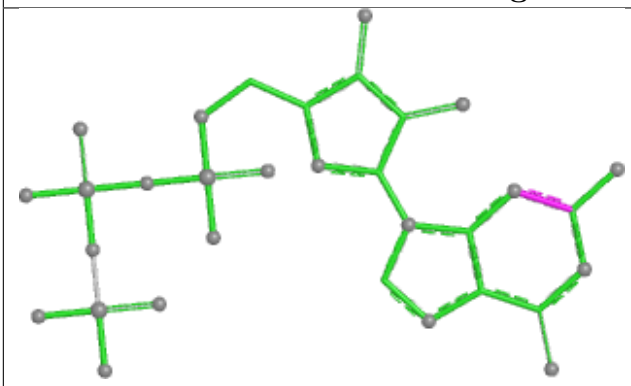


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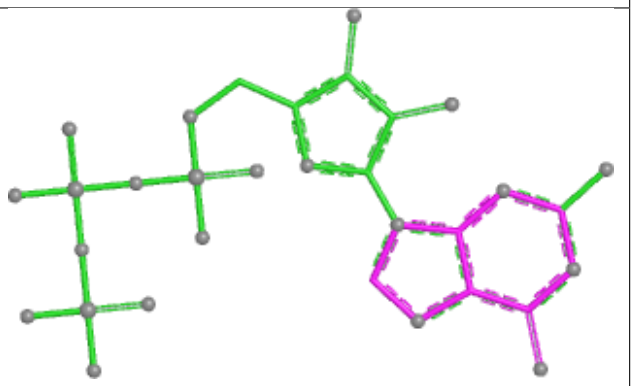


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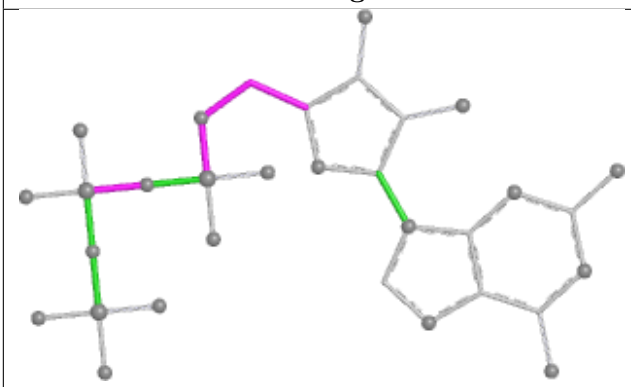
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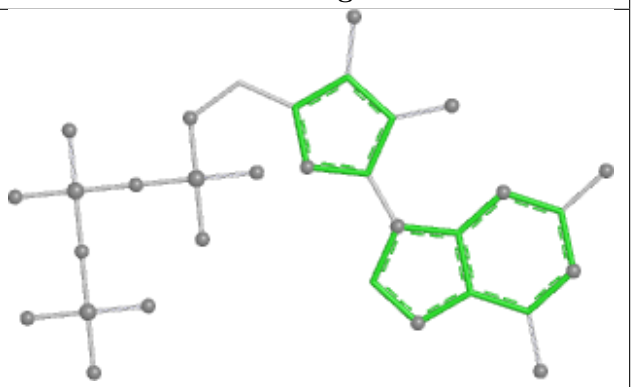
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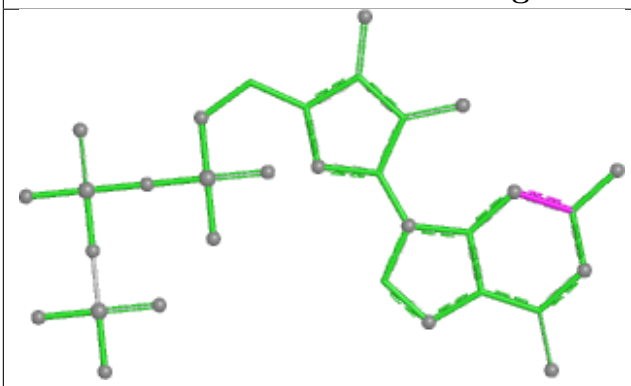


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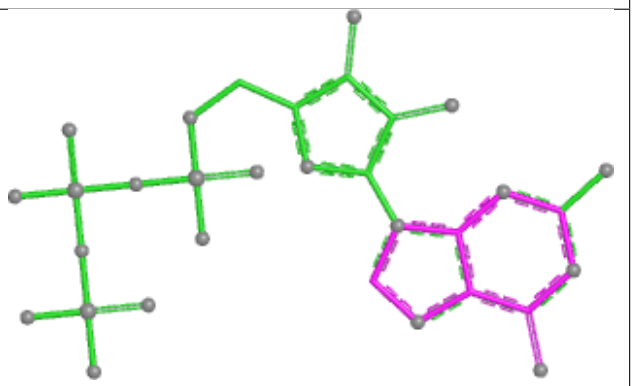


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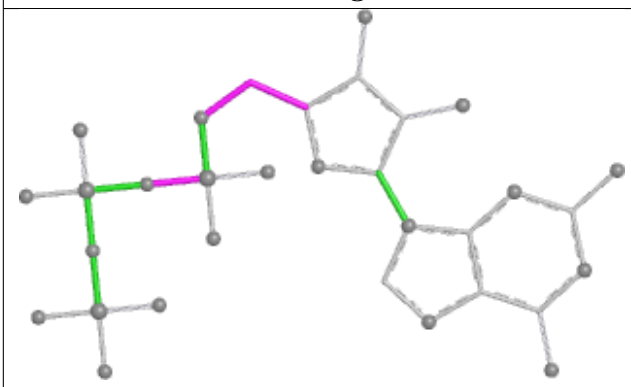
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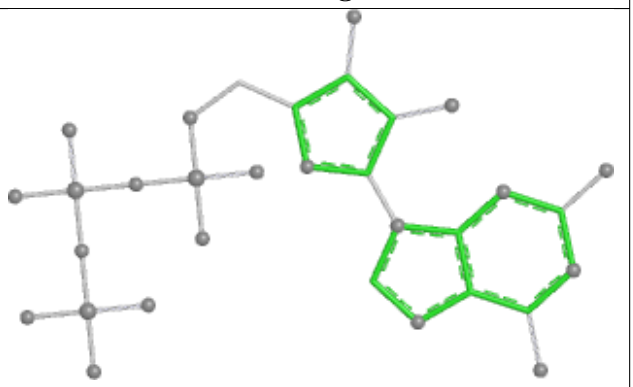
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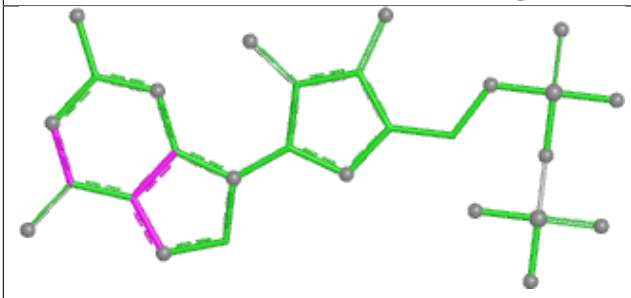


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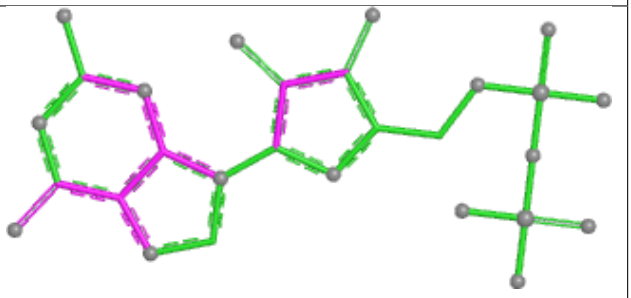


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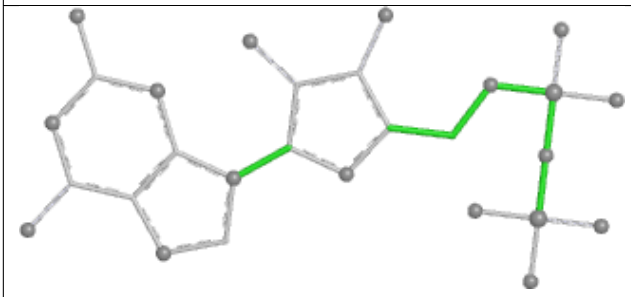
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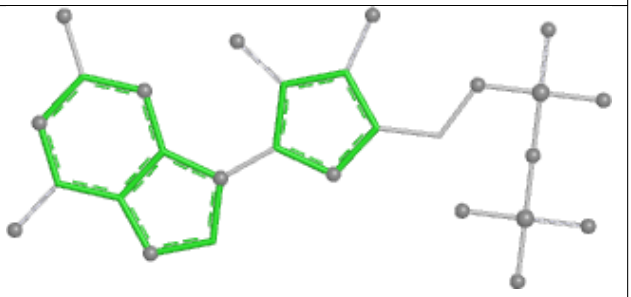
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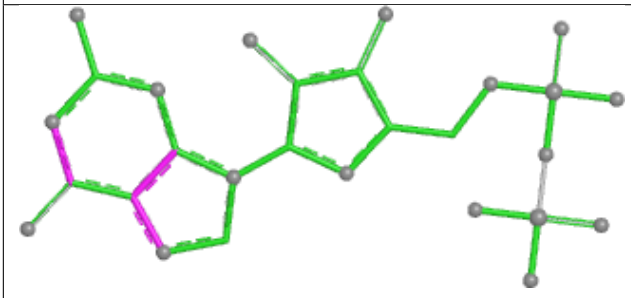


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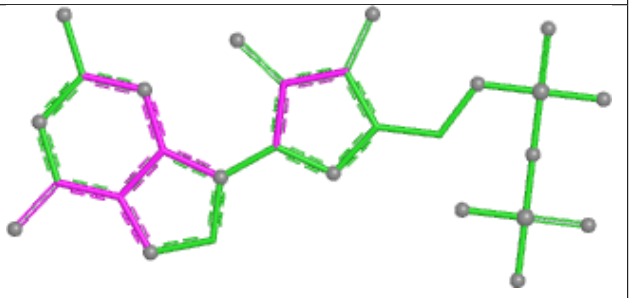


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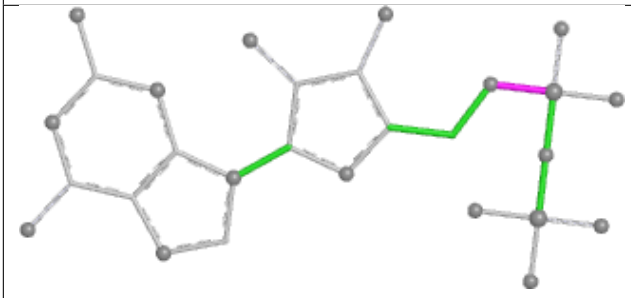
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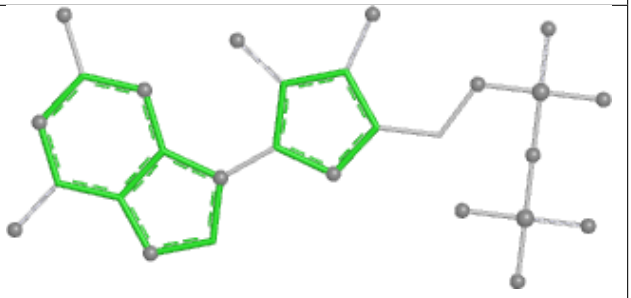
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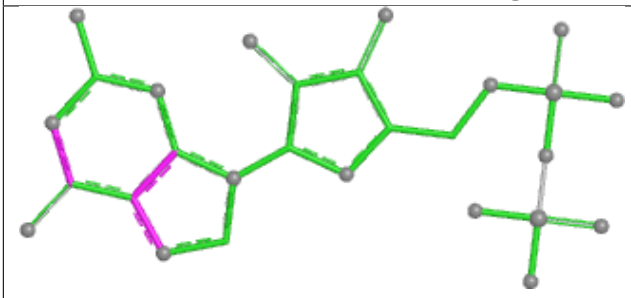


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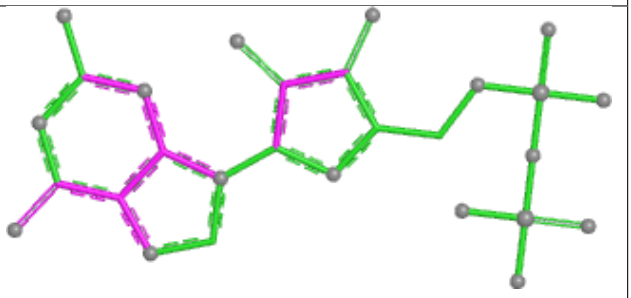


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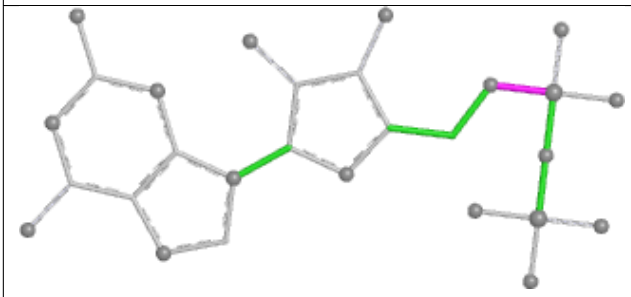
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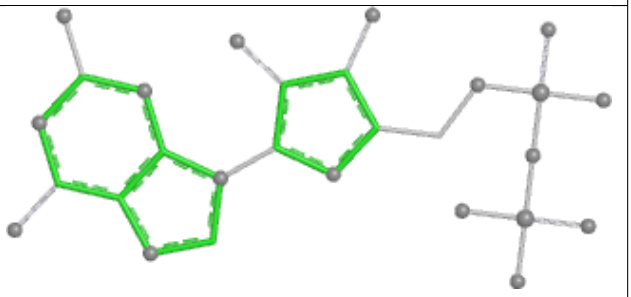
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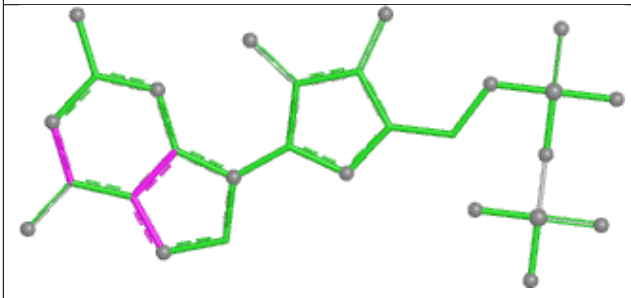


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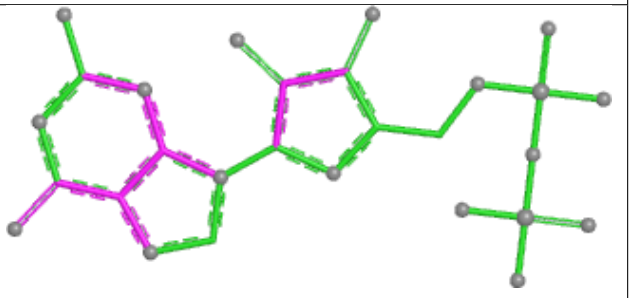


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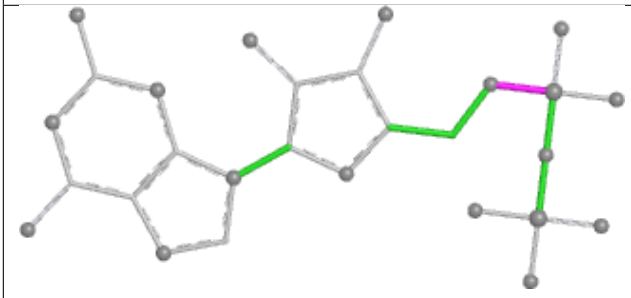
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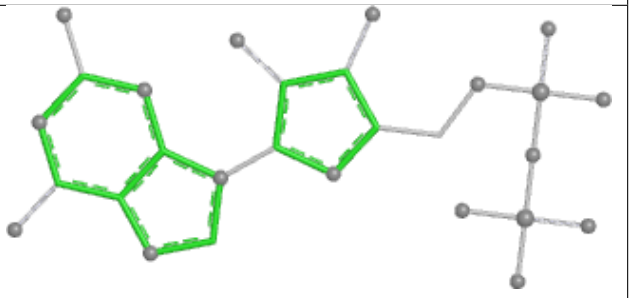
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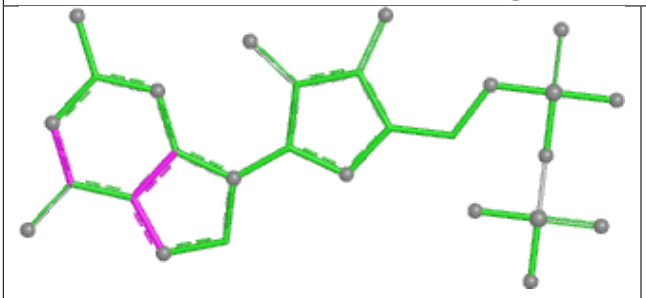


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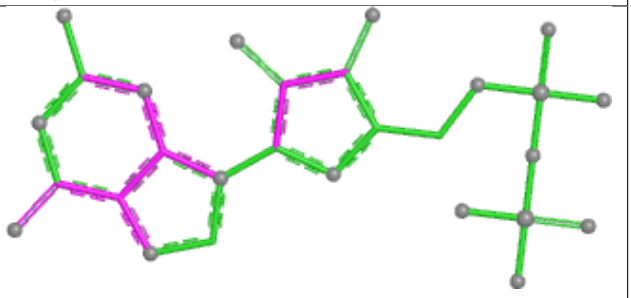


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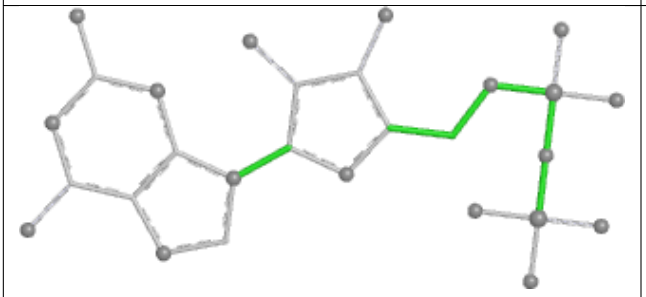
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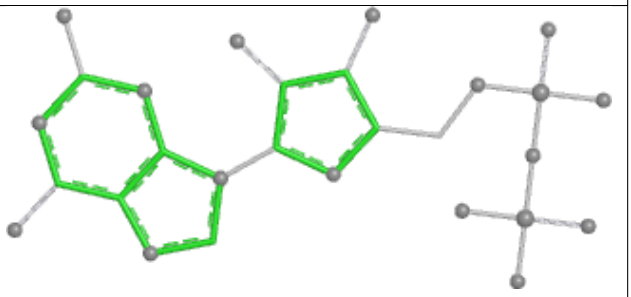
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Bond angles

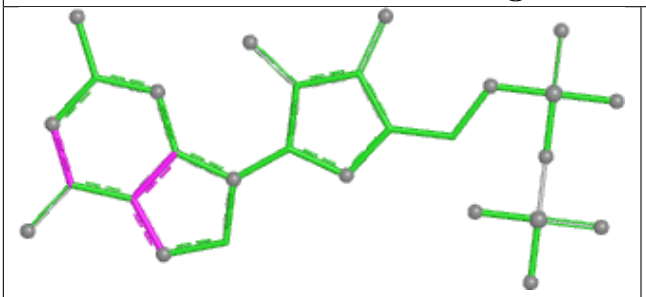


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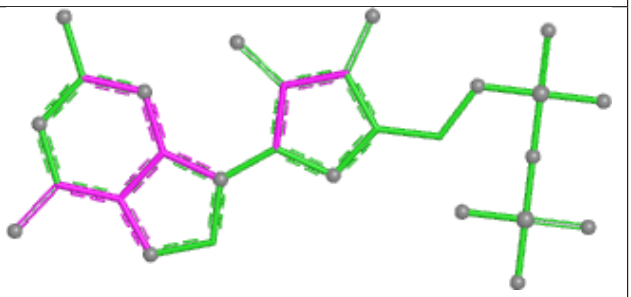


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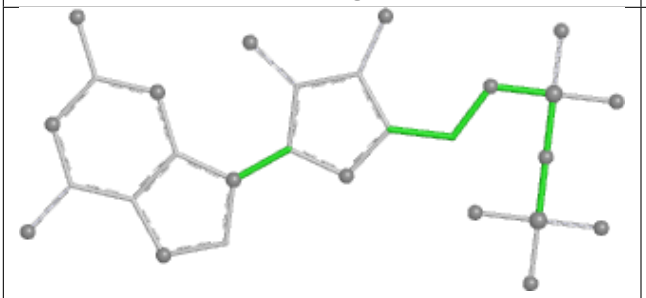
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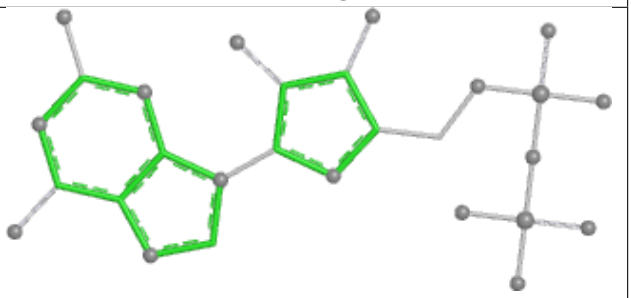
Bond lengths



Bond angles

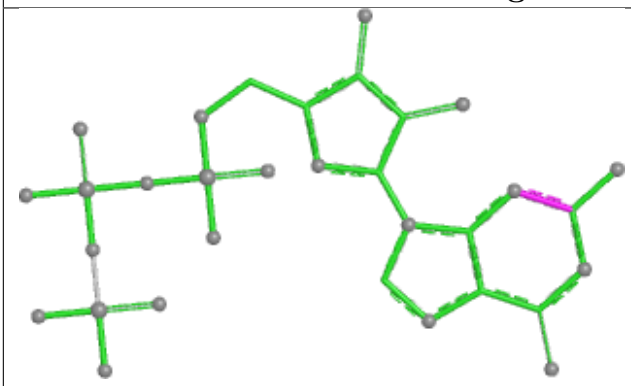


Torsions

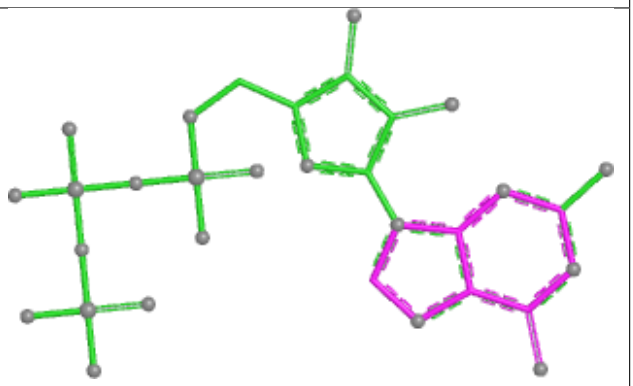


Rings

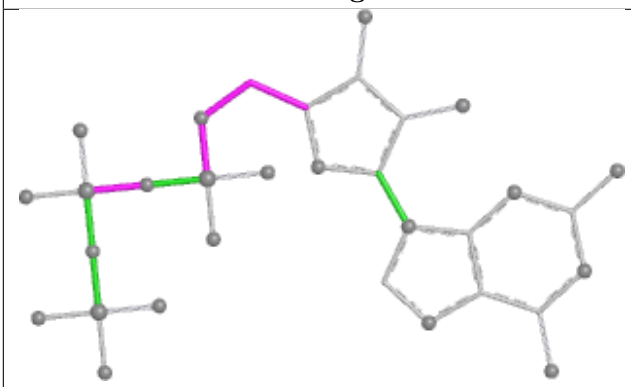
Ligand GTP HK 501



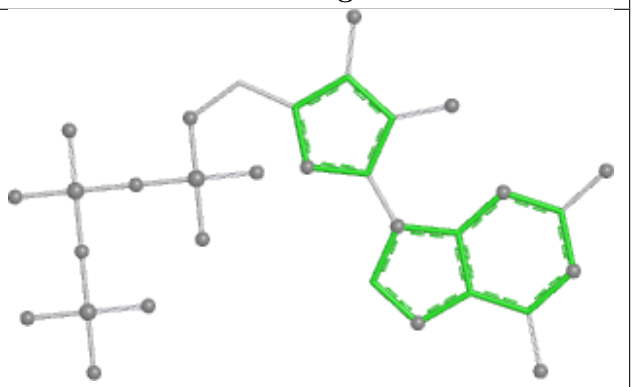
Bond lengths



Bond angles

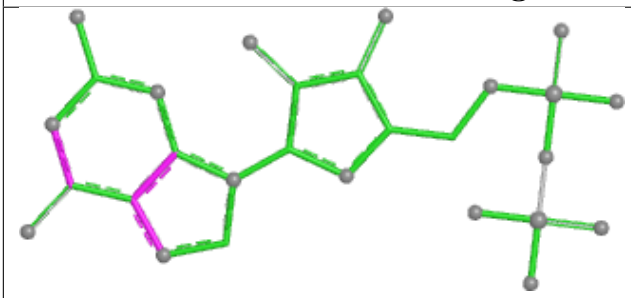


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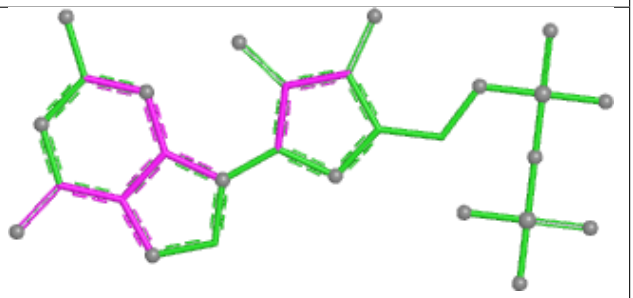


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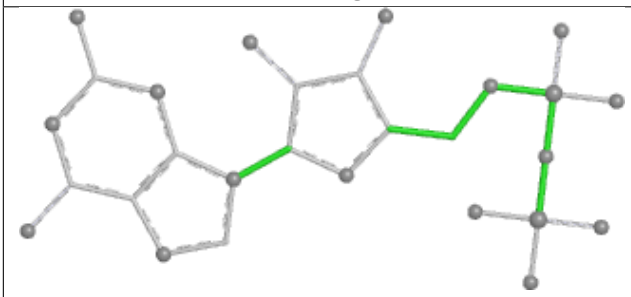
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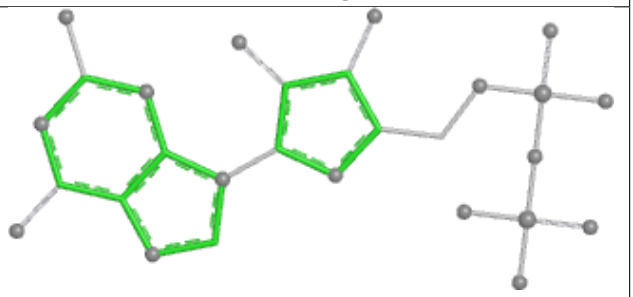
Bond lengths



Bond angles

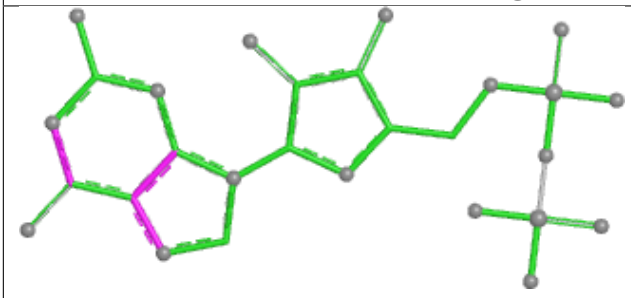


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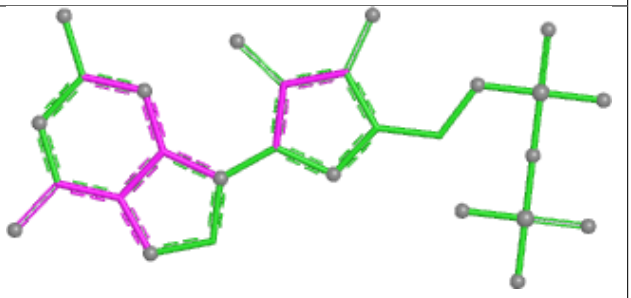


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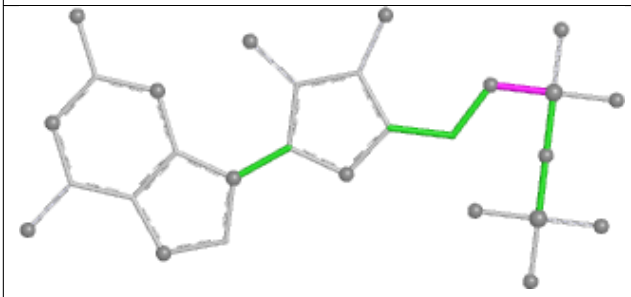
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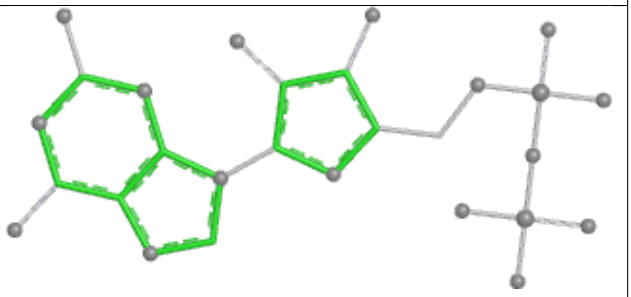
Bond lengths



Bond angles

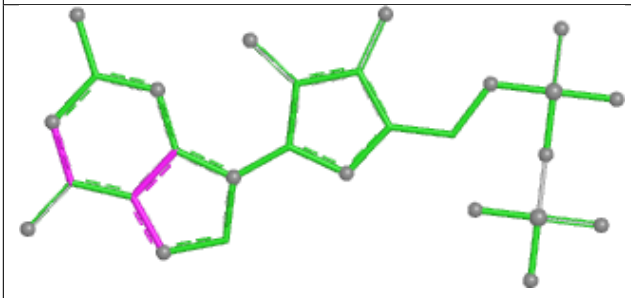


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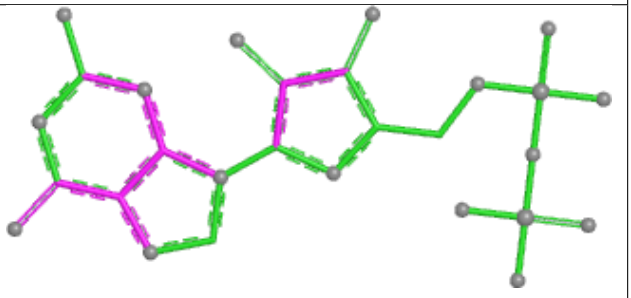


Rings

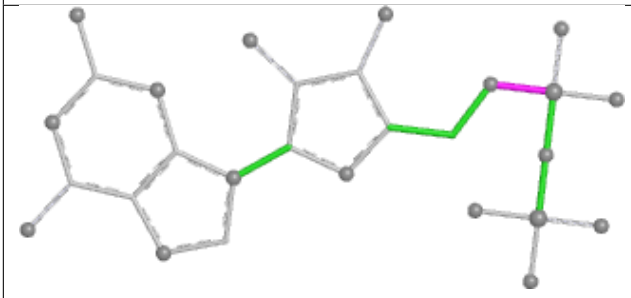
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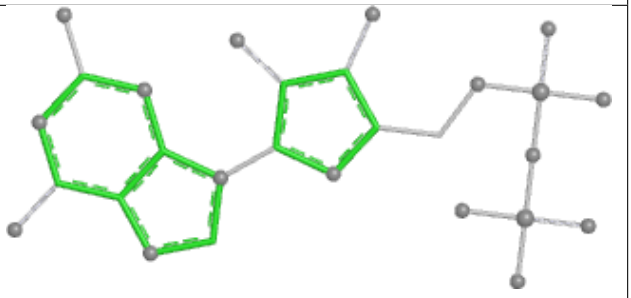
Bond lengths



Bond angles

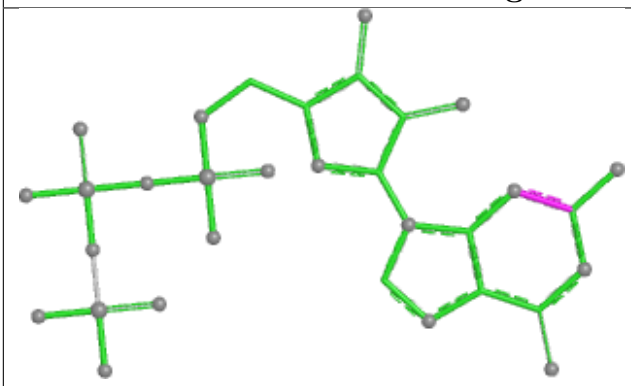


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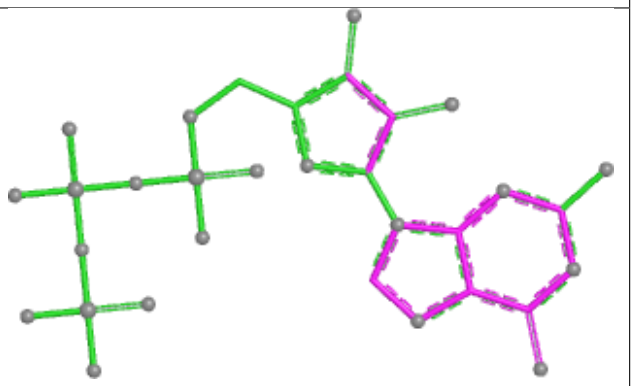


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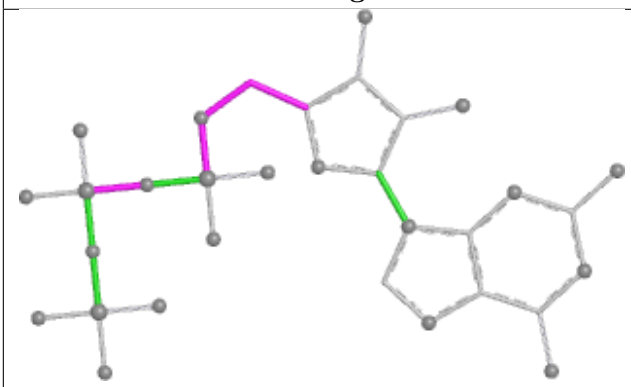
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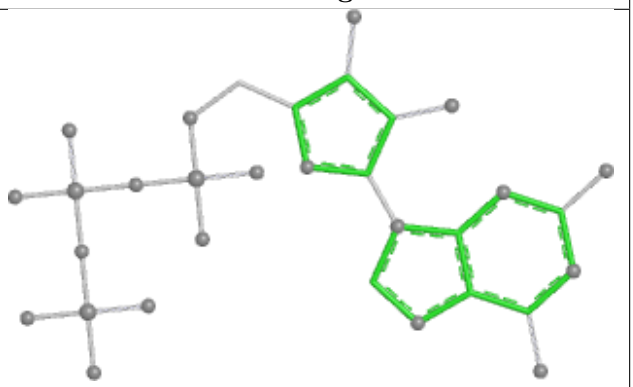
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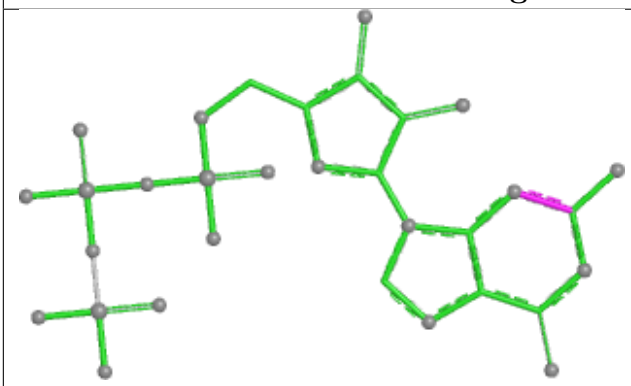


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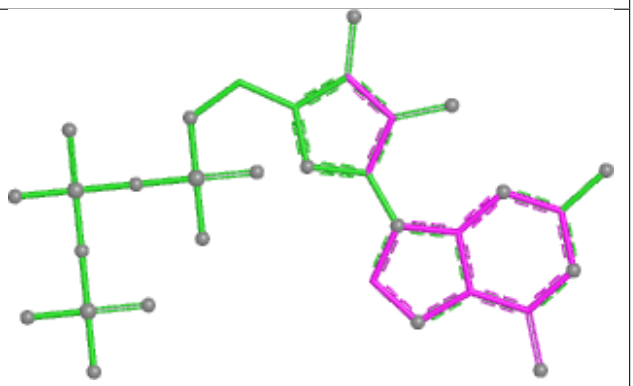


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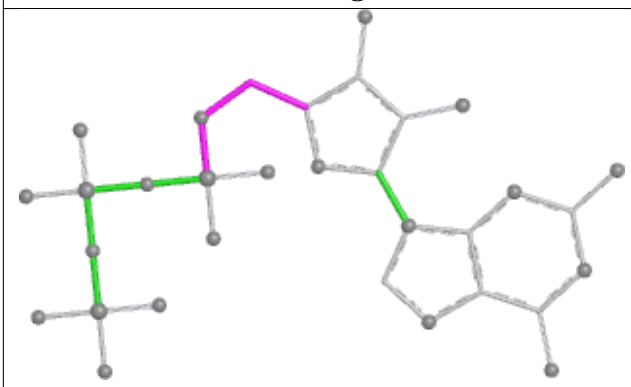
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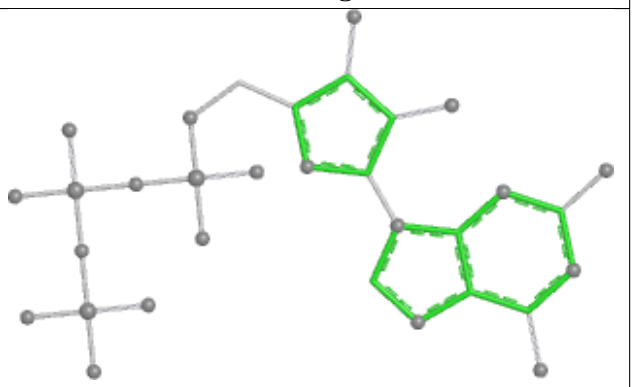
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Bond angles

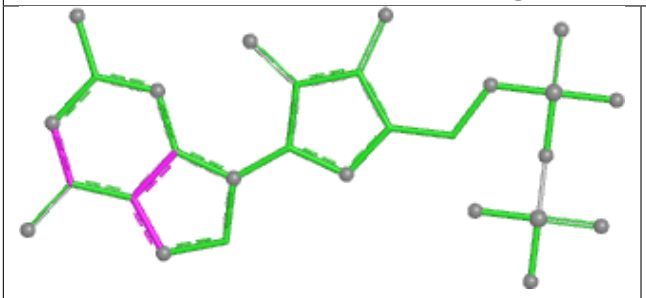


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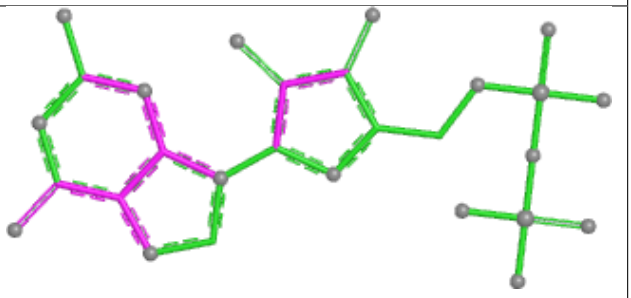


Rings

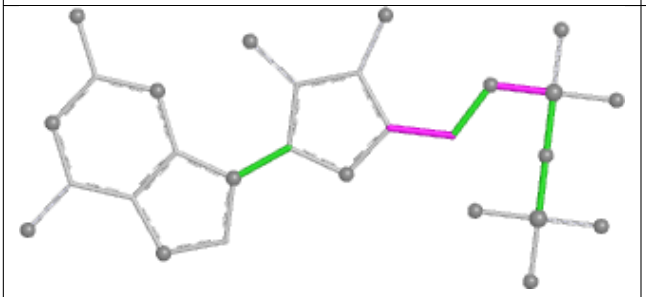
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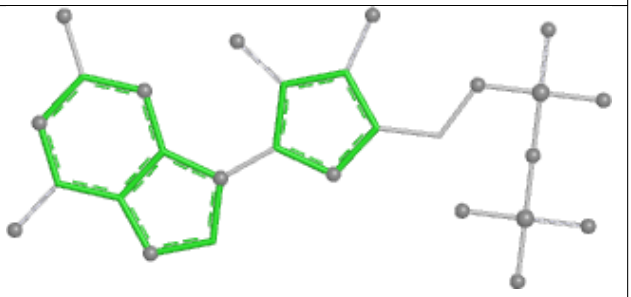
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Bond angles

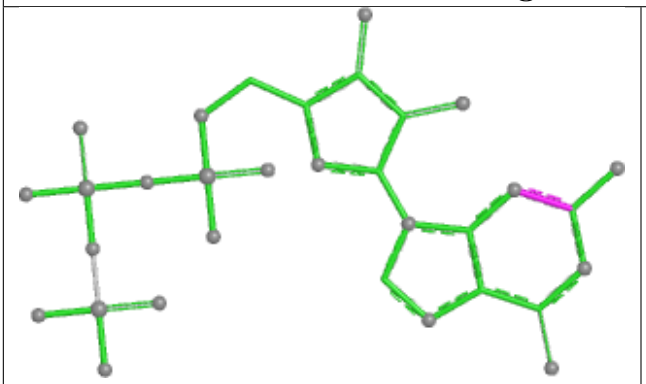


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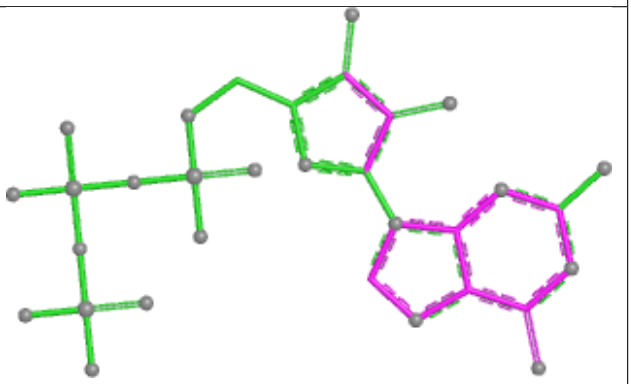


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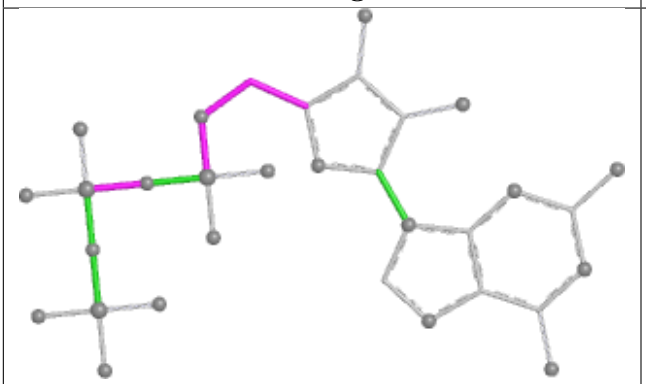
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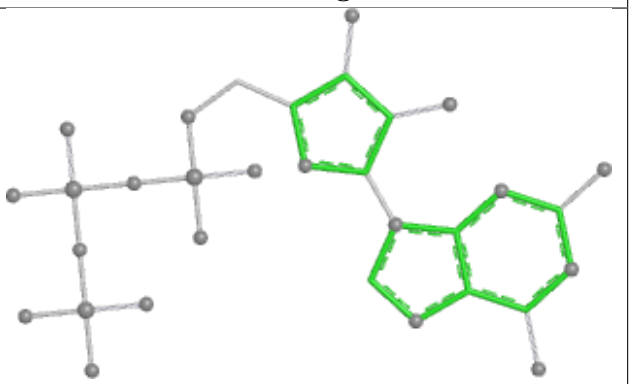
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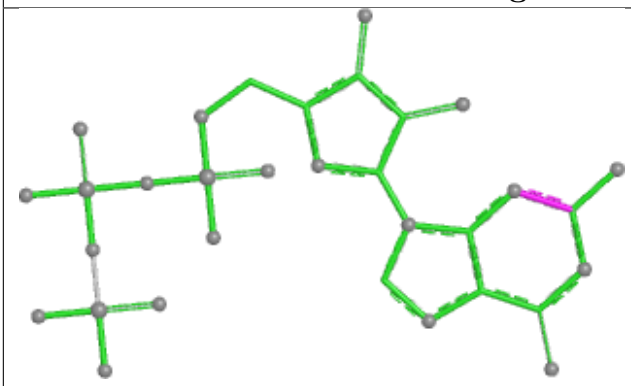


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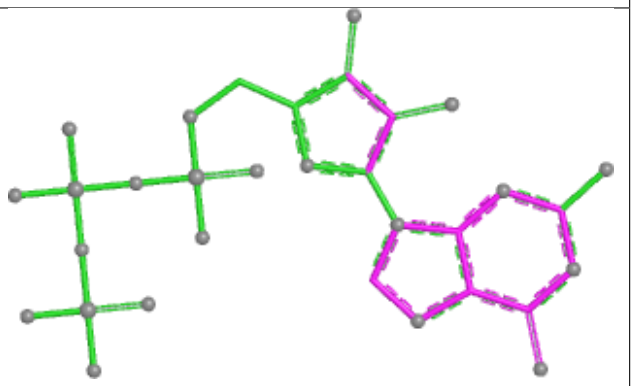


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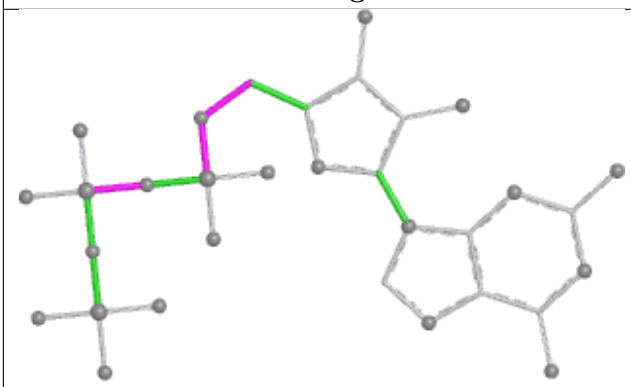
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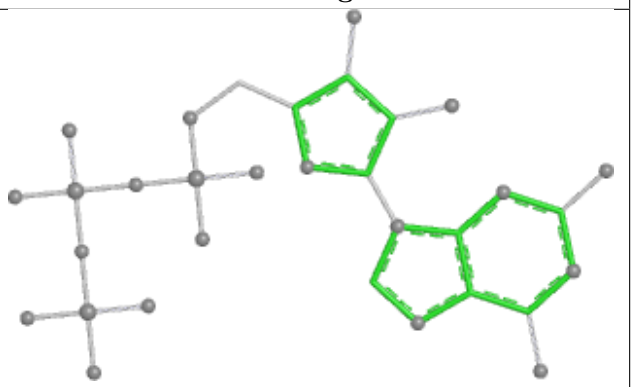
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Bond angles

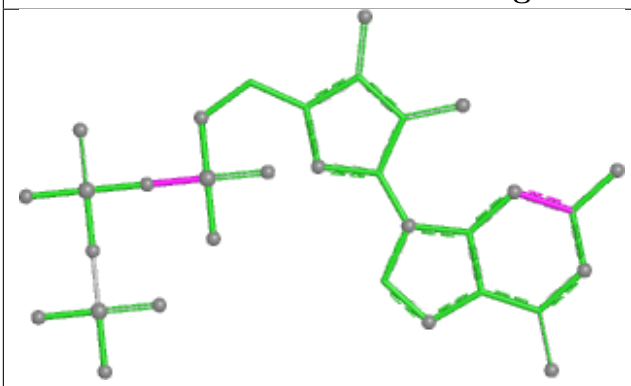


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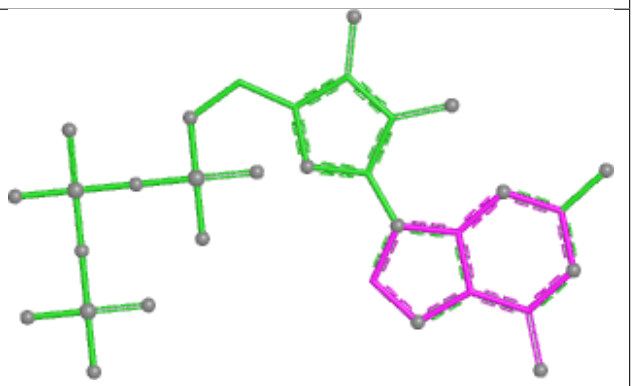


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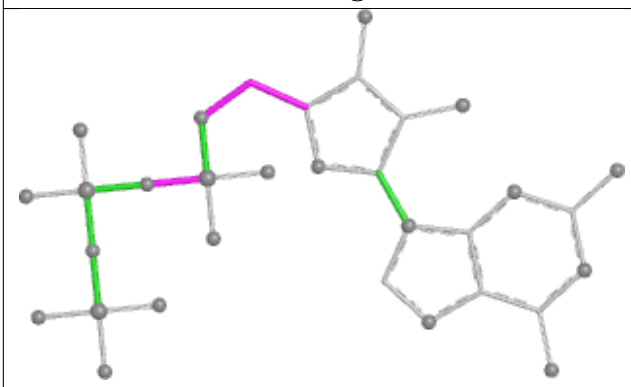
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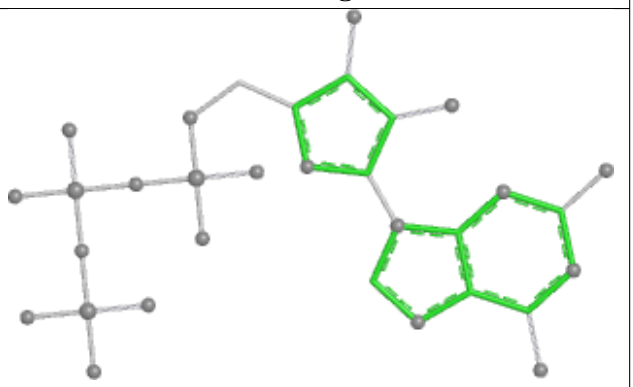
Bond lengths



Bond angles

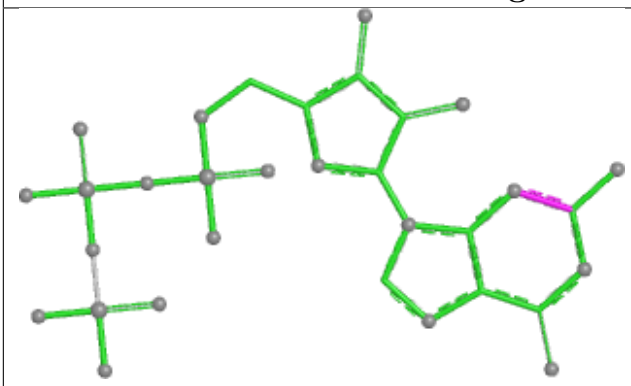


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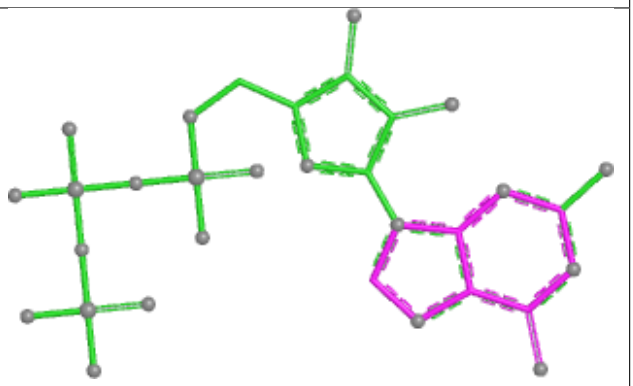


Rings

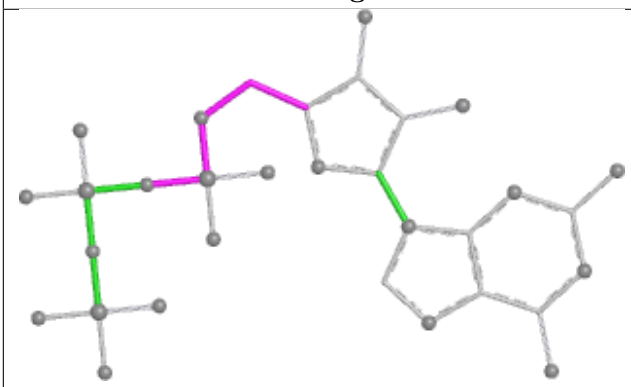
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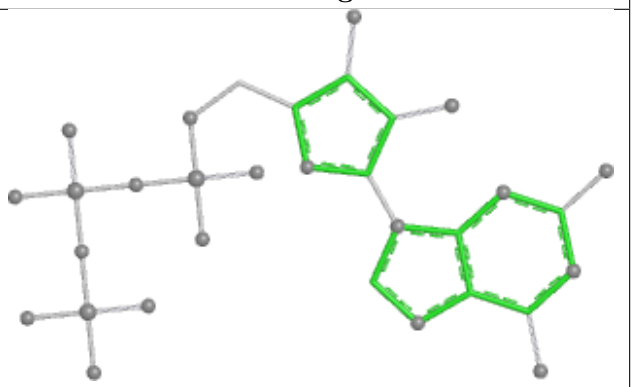
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Bond angles

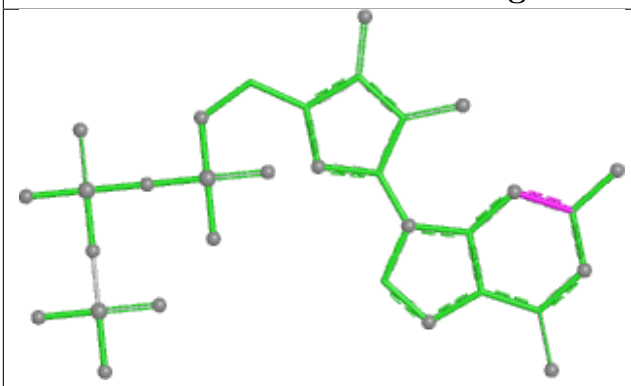


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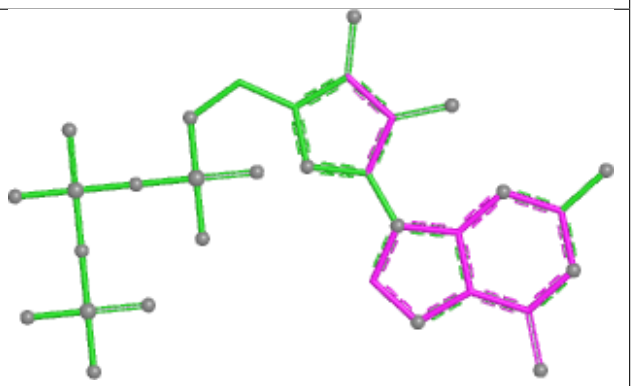


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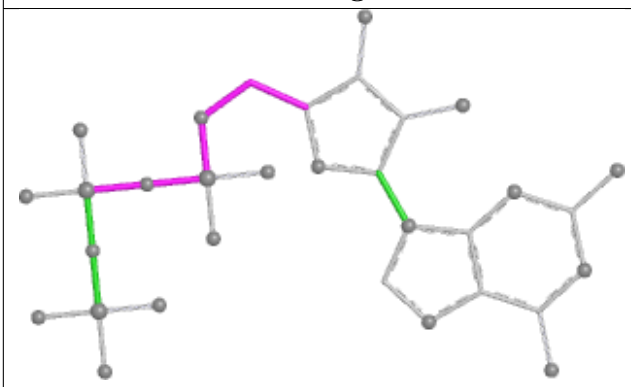
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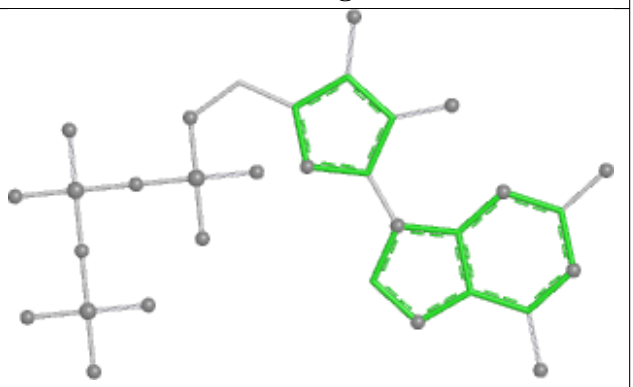
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Bond angles

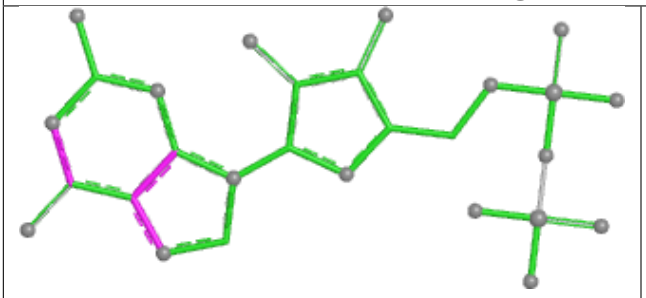


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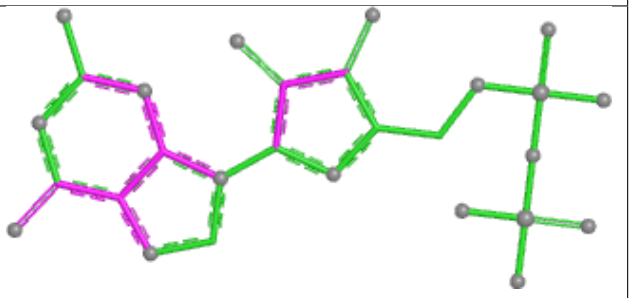


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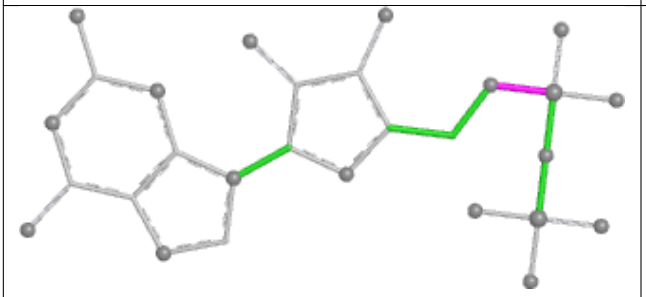
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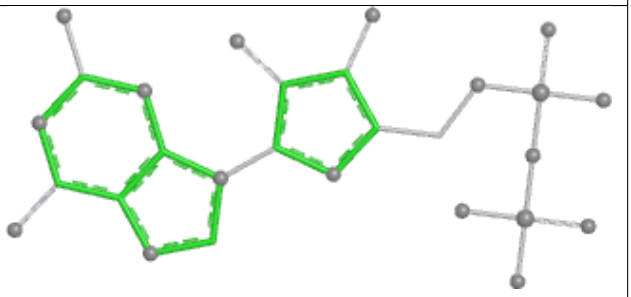
Bond lengths



Bond angles

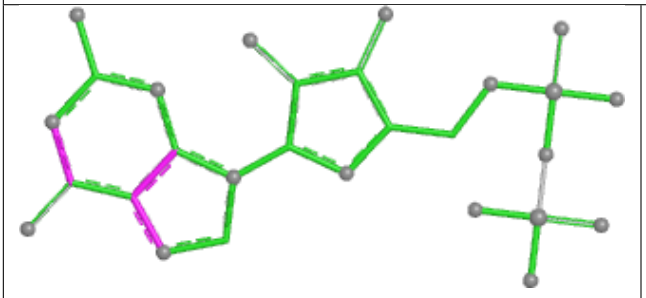


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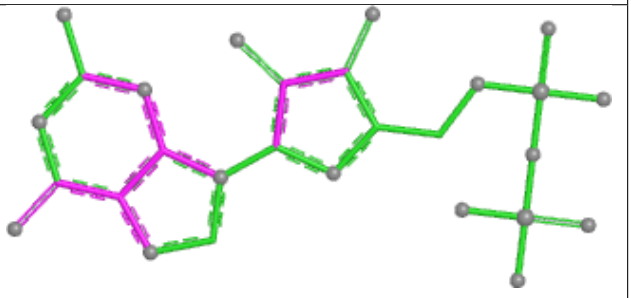


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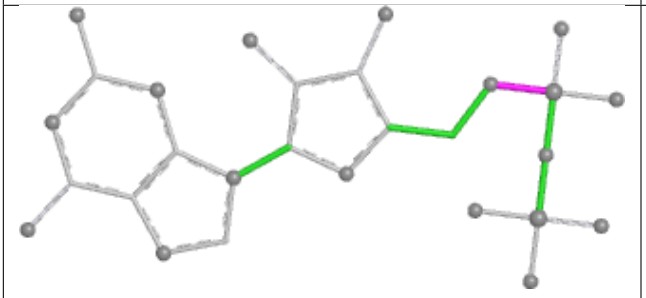
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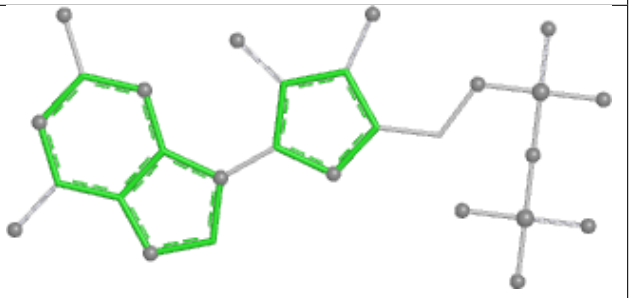
Bond lengths



Bond angles

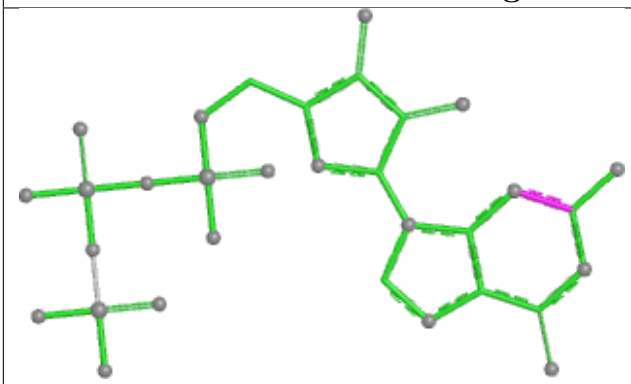


Torsions

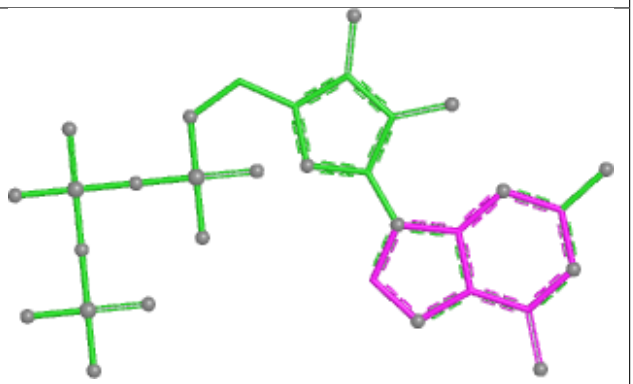


Rings

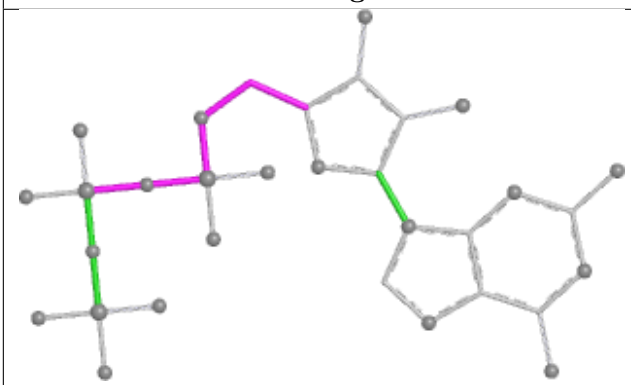
Ligand GTP WK 501



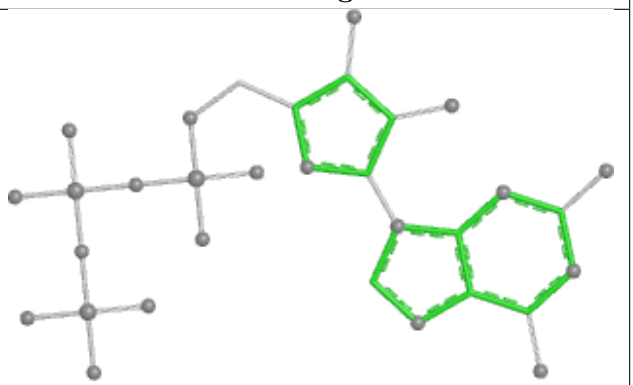
Bond lengths



Bond angles

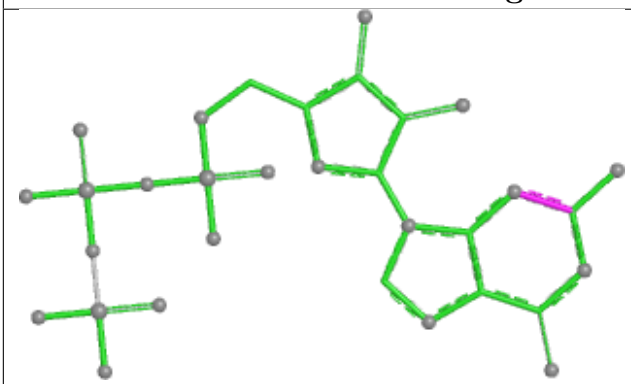


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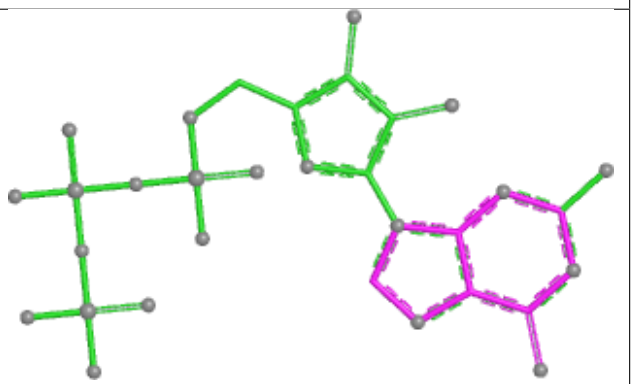


Rings

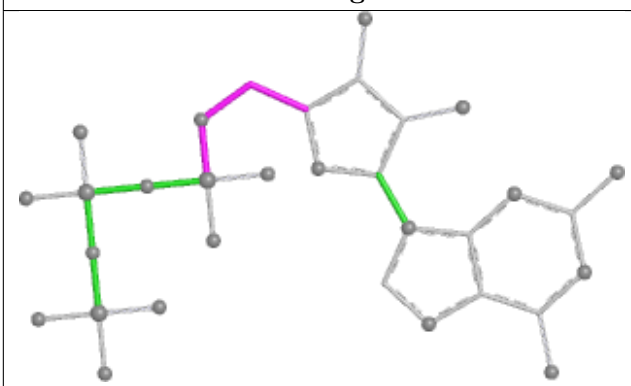
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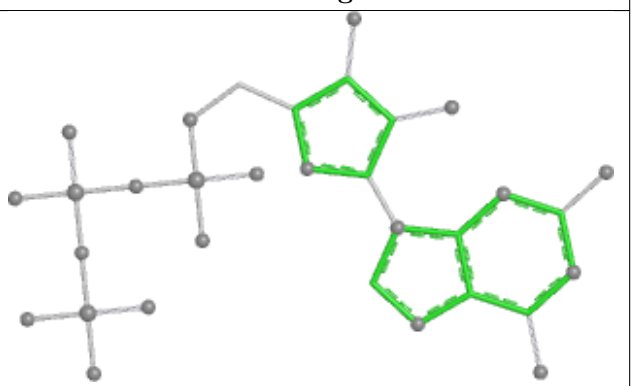
Bond lengths



Bond angles

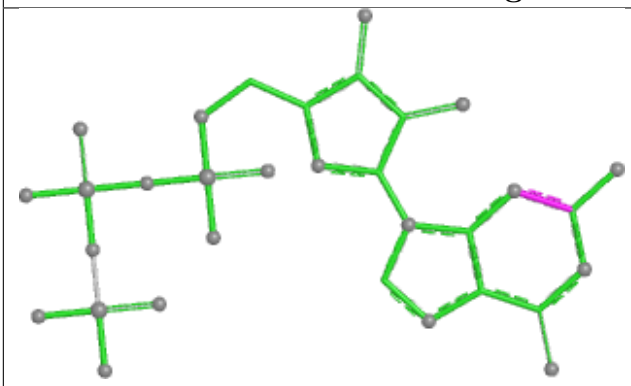


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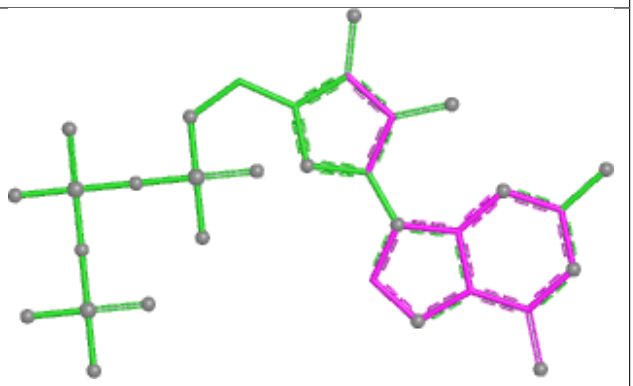


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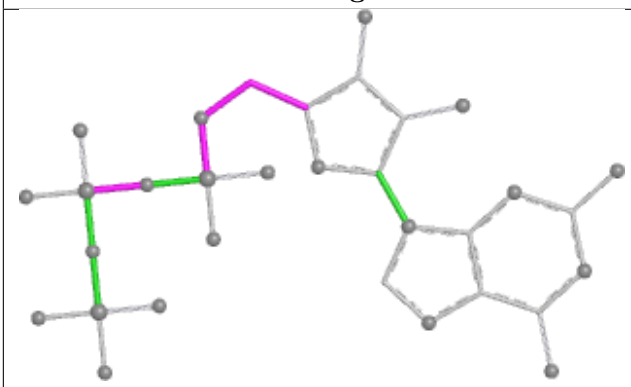
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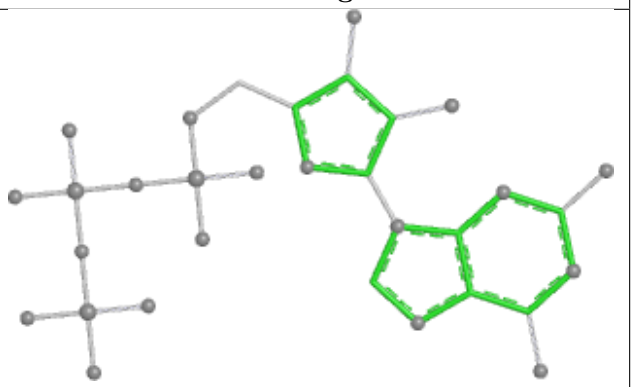
Bond lengths



Bond angles

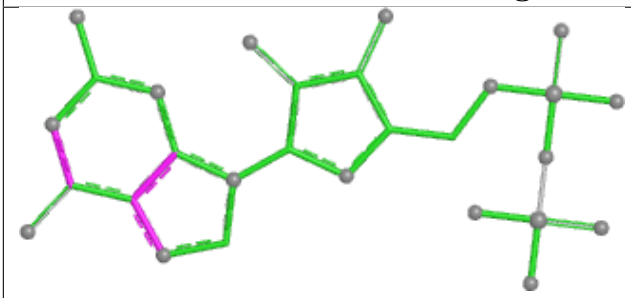


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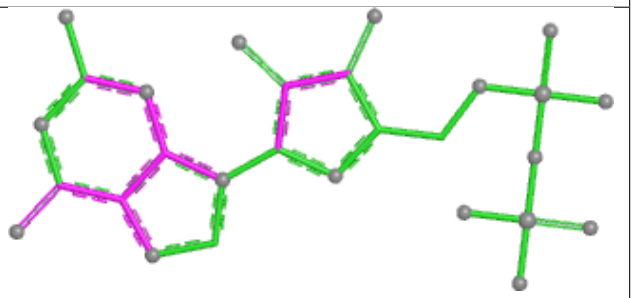


Rings

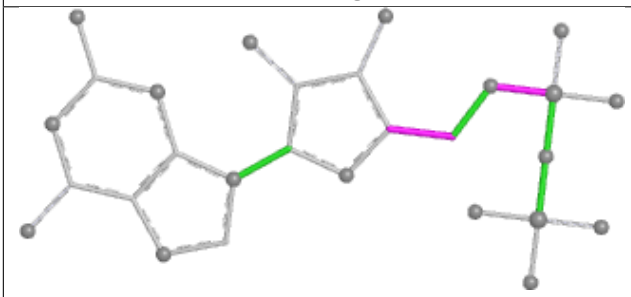
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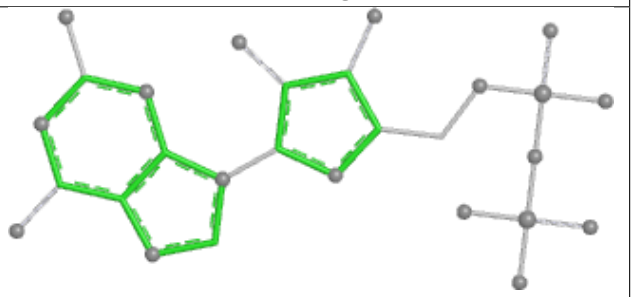
Bond lengths



Bond angles

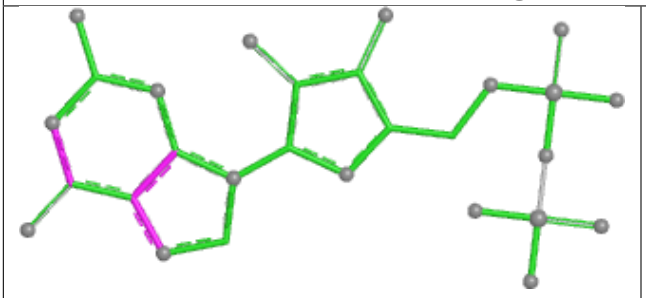


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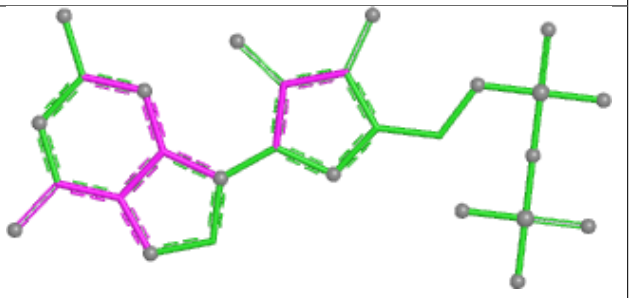


Rings

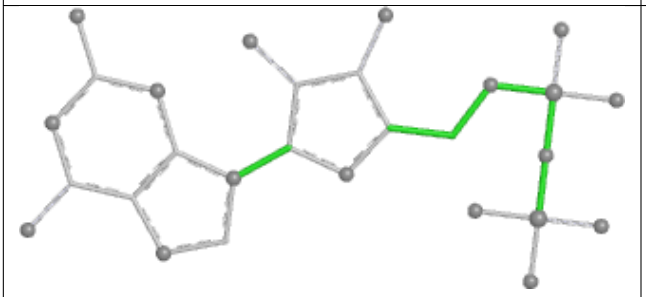
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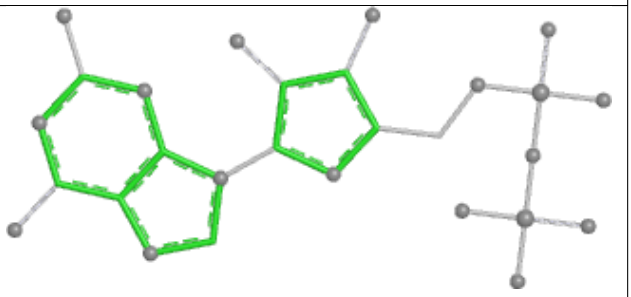
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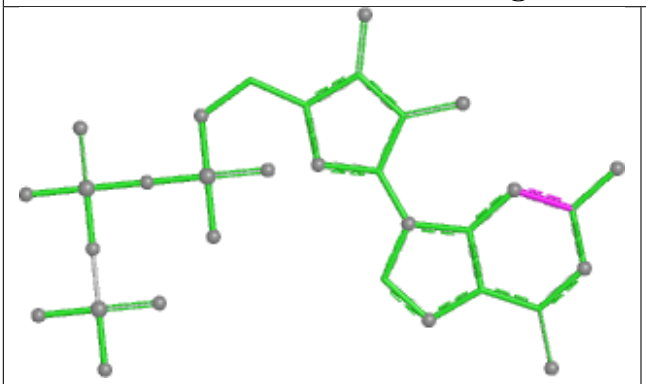


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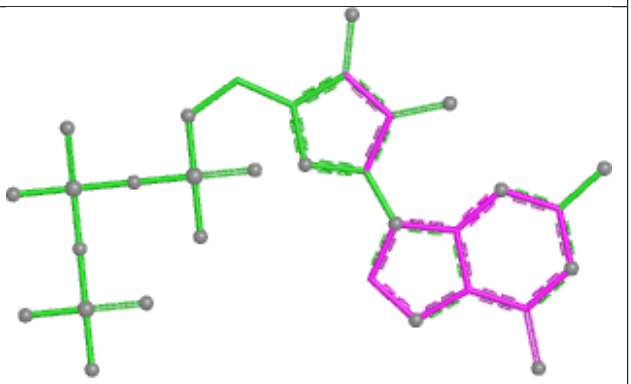


Rings

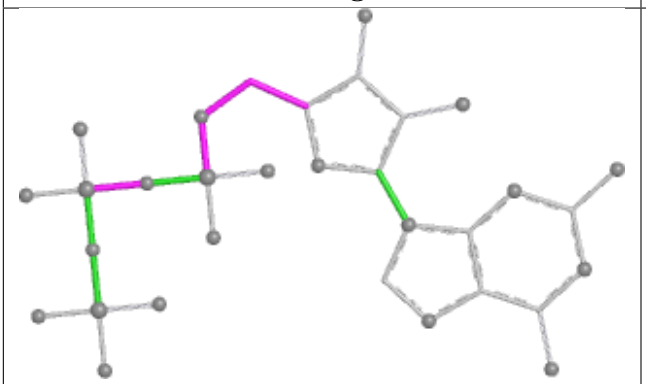
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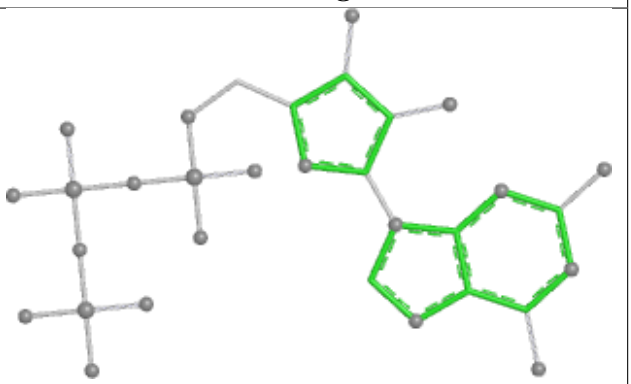
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Bond angles

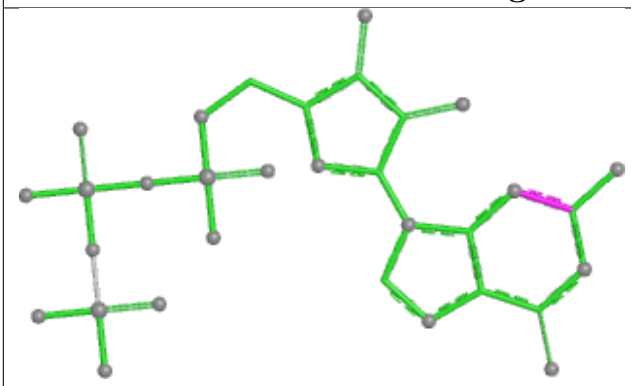


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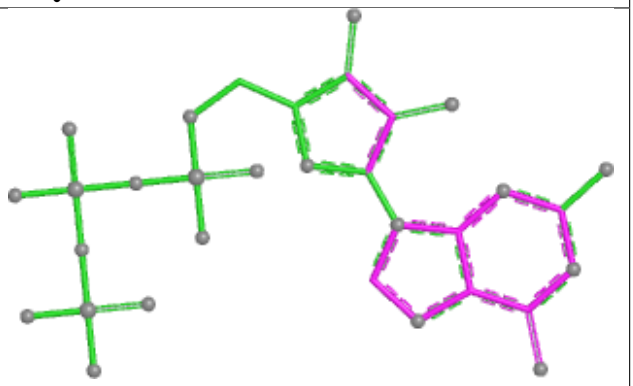


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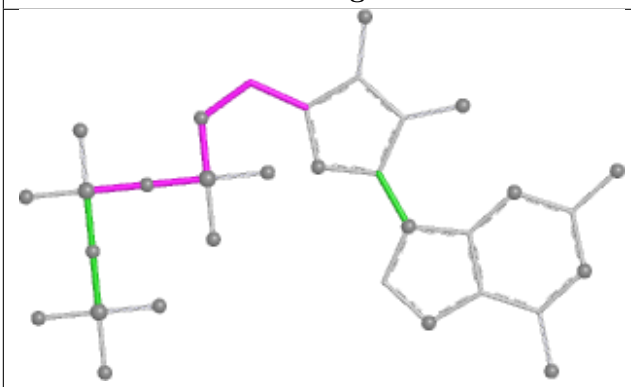
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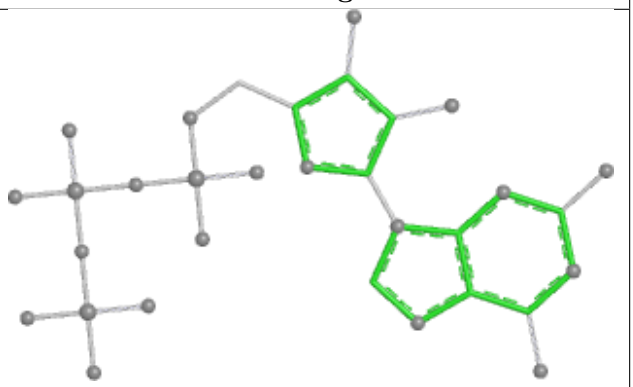
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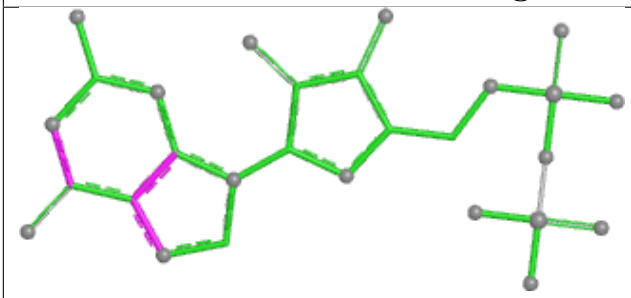


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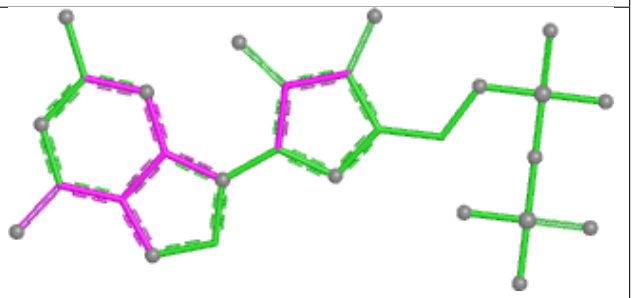


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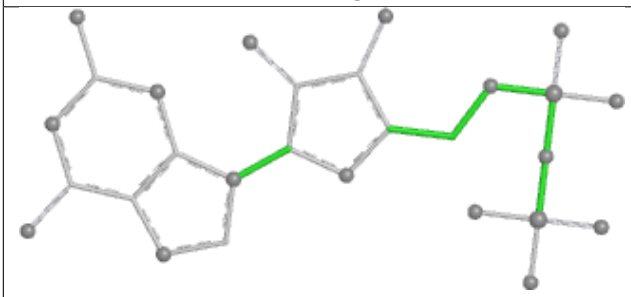
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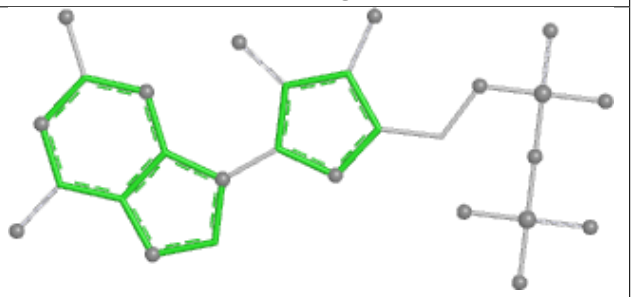
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Bond angles

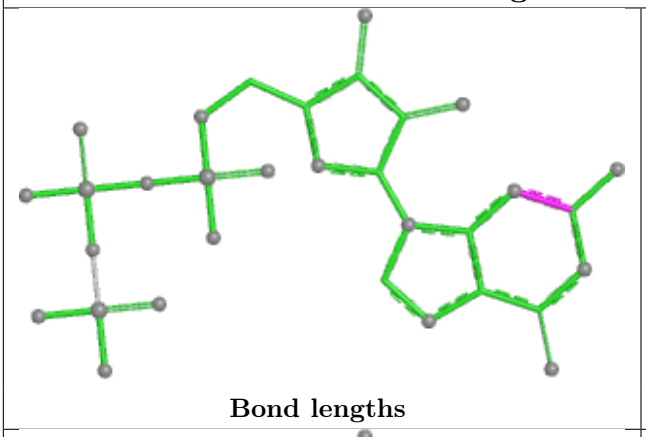


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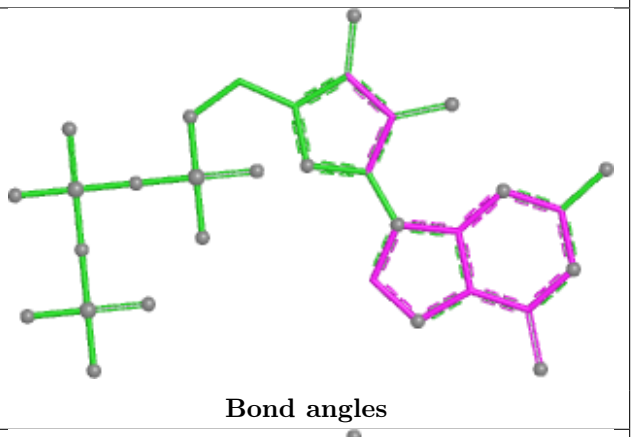


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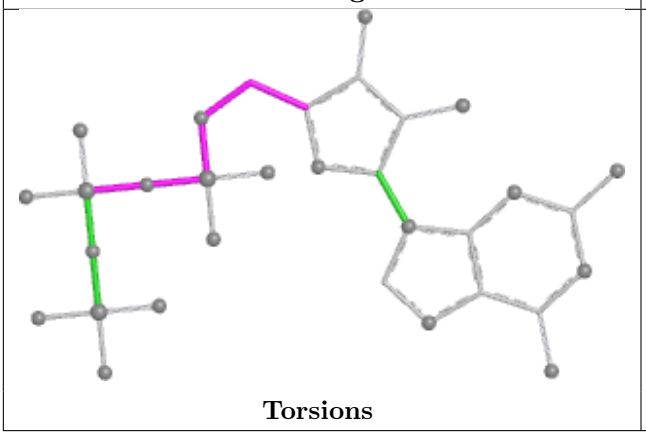
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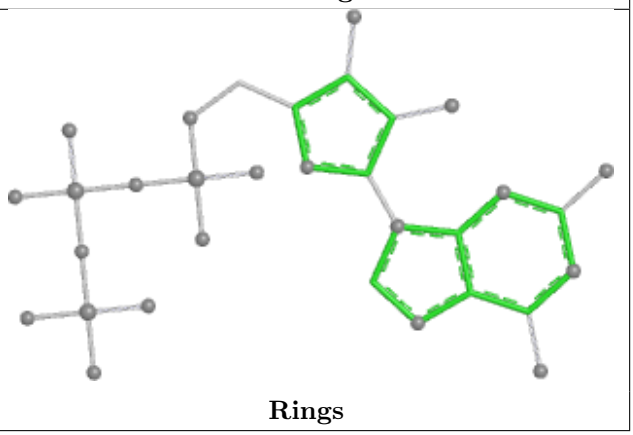
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Bond angles

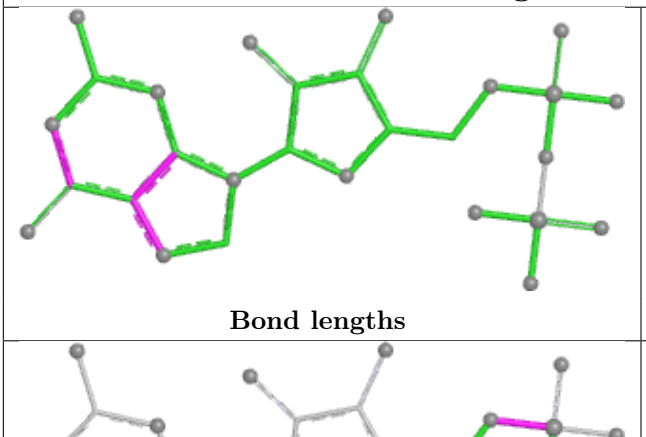


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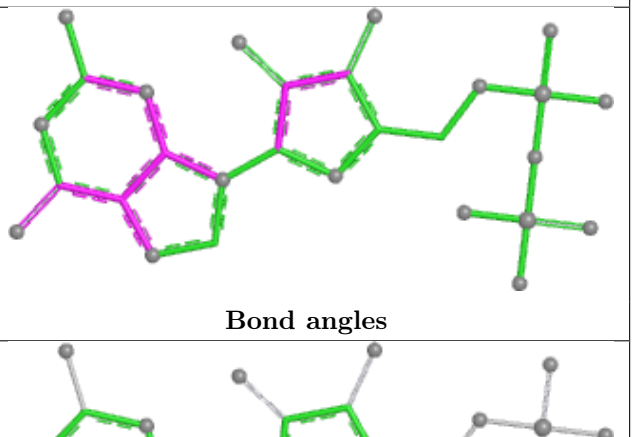


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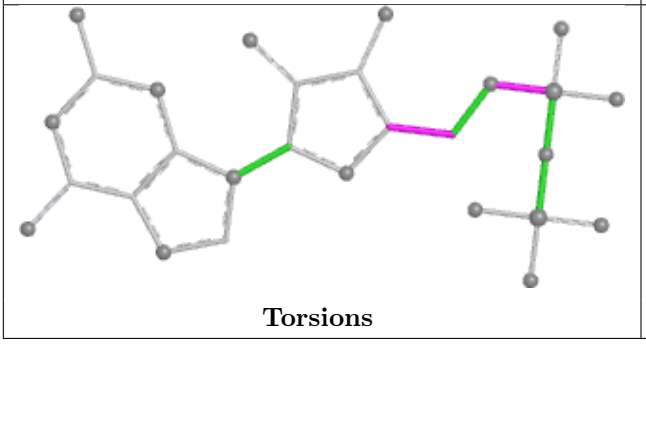
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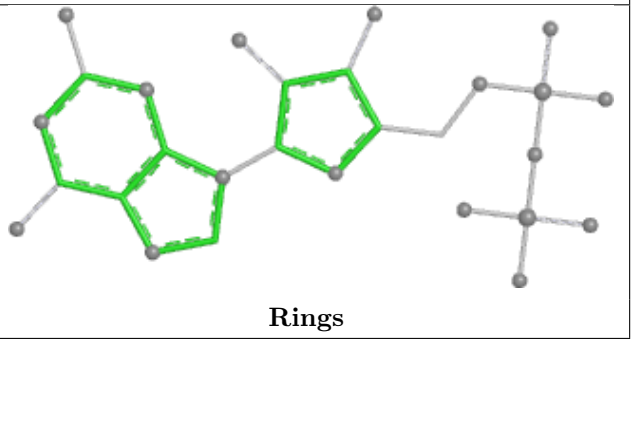
Bond lengths



Bond angles

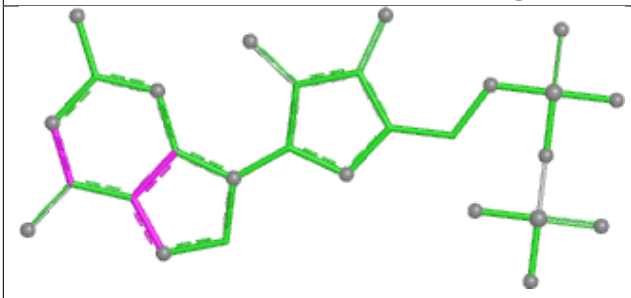


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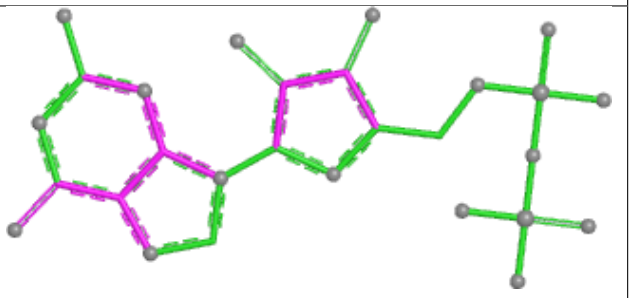


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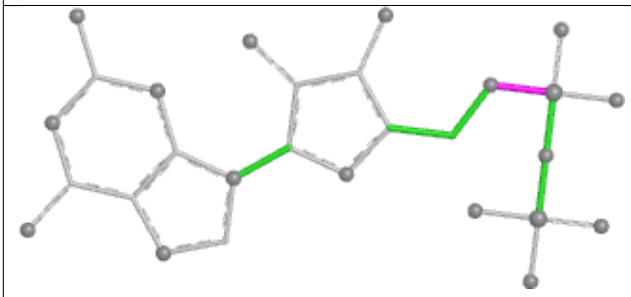
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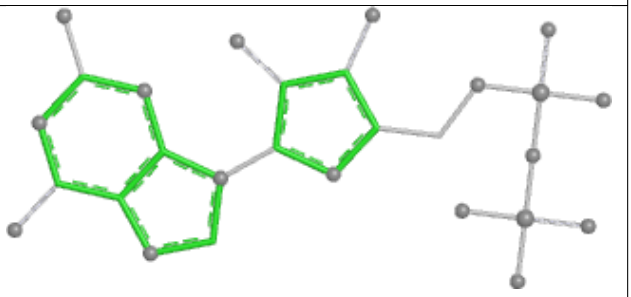
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Bond angles

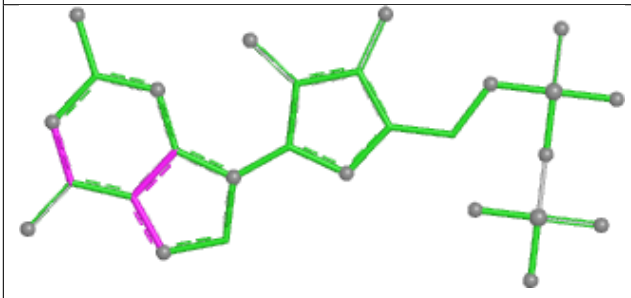


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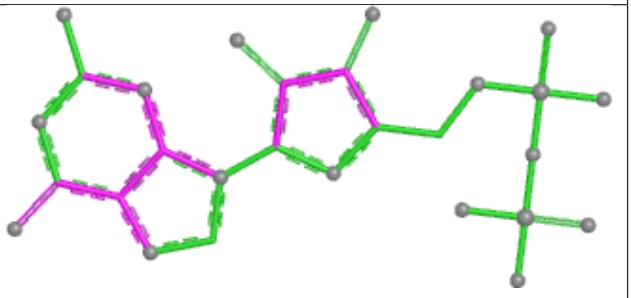


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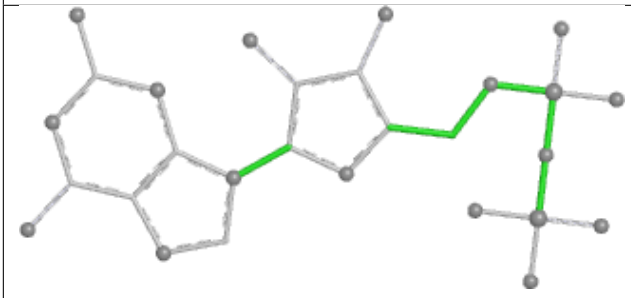
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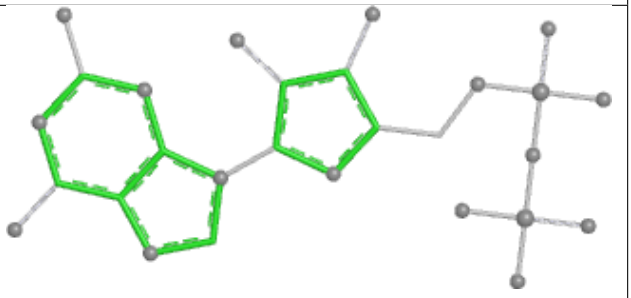
Bond lengths



Bond angles

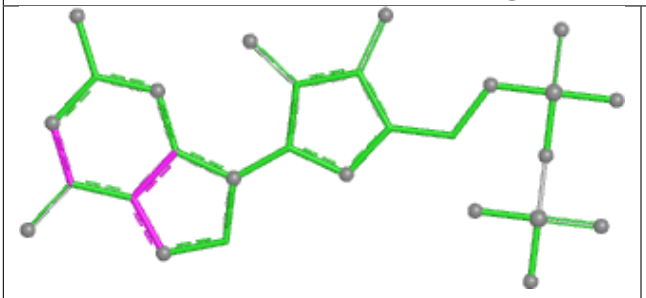


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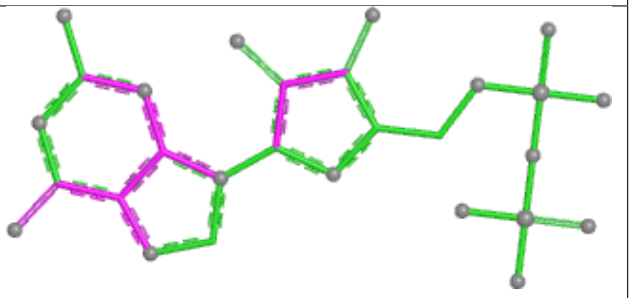


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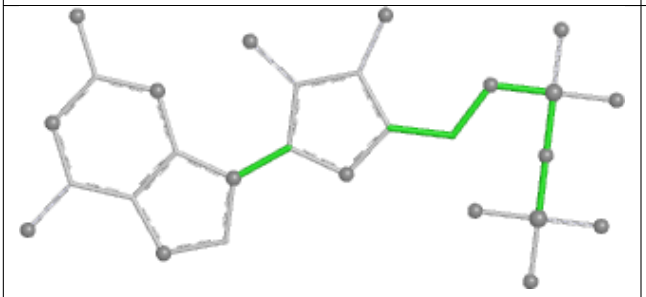
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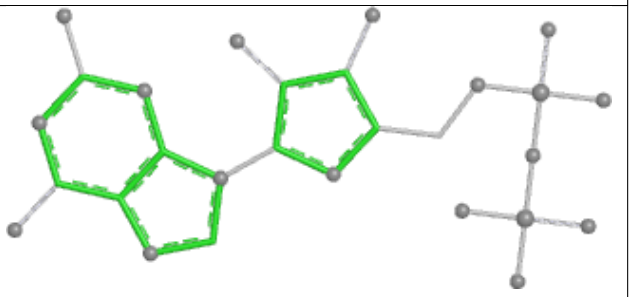
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Bond angles

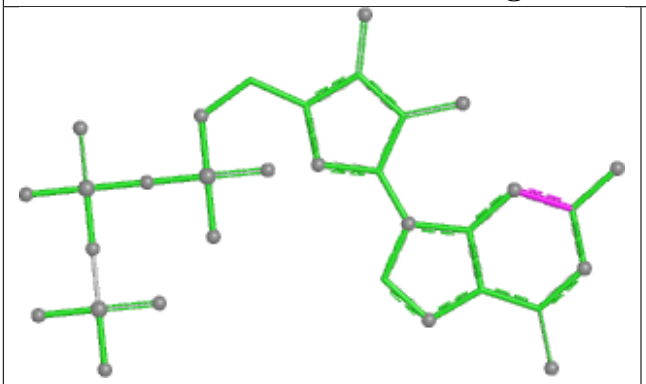


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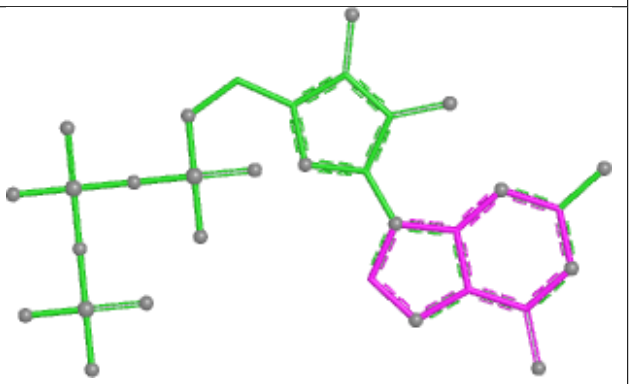


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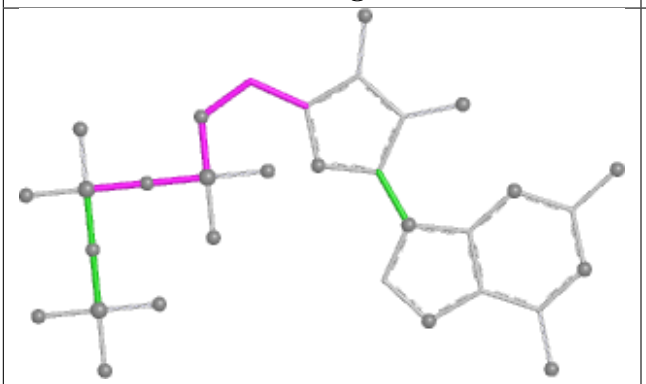
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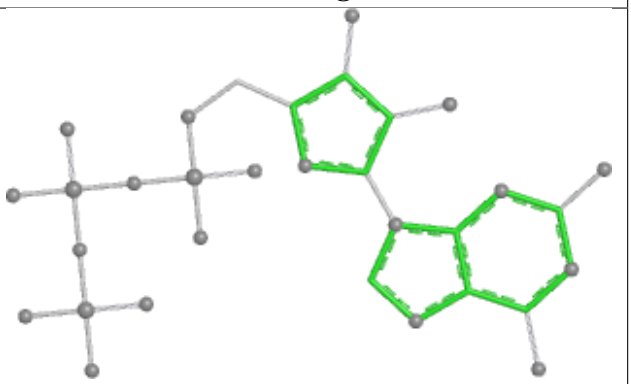
Bond lengths



Bond angles

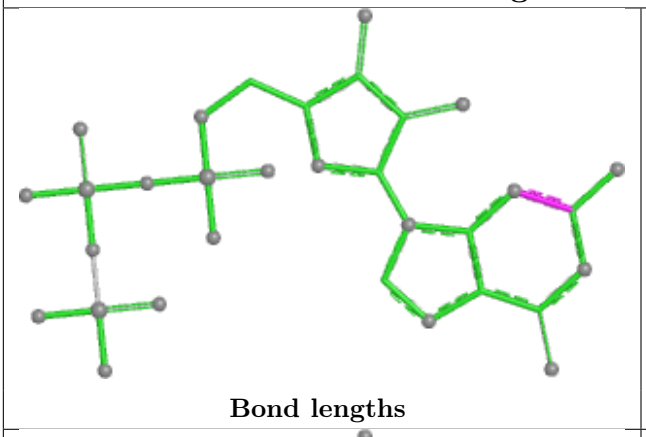


Torsions

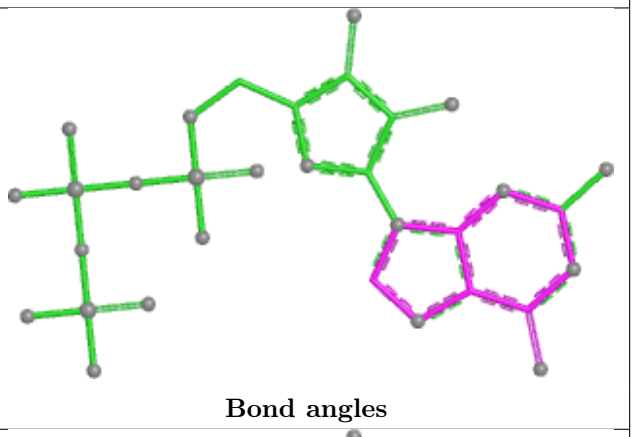


Rings

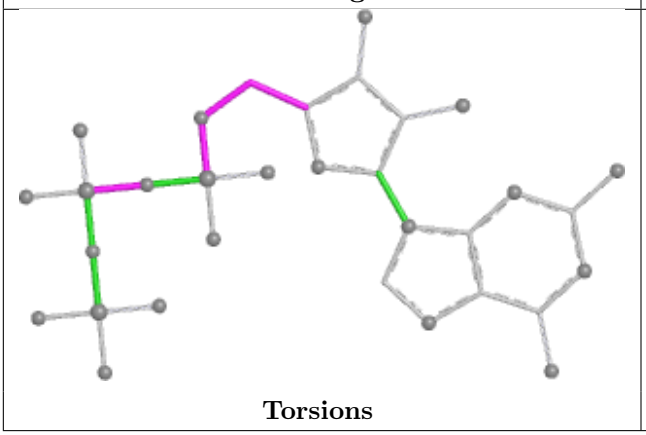
Ligand GTP RE 501



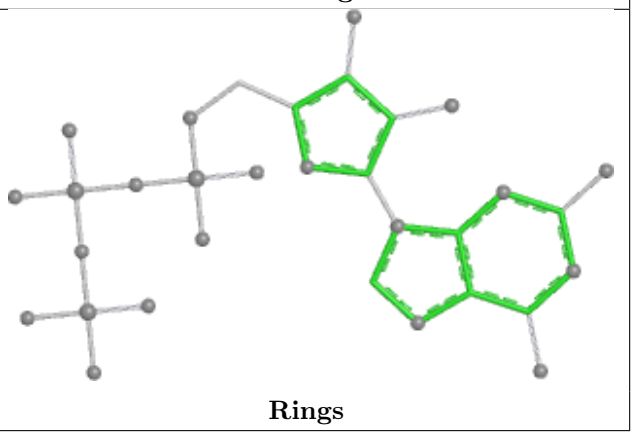
Bond lengths



Bond angles

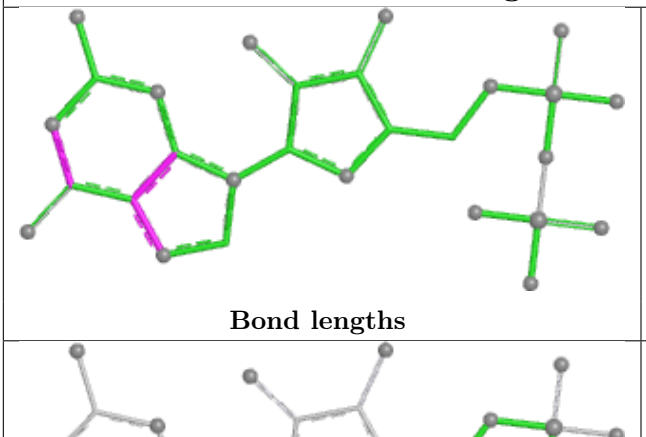


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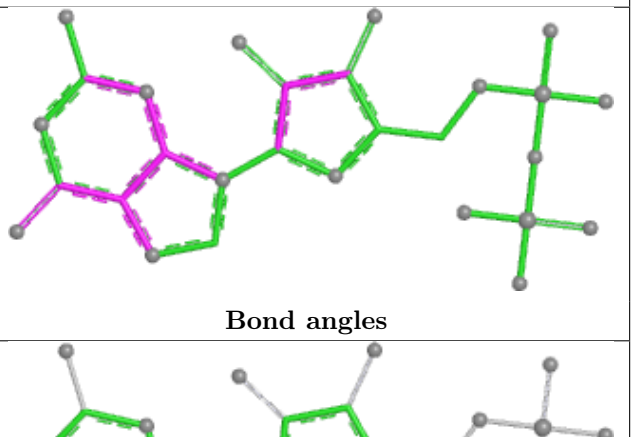


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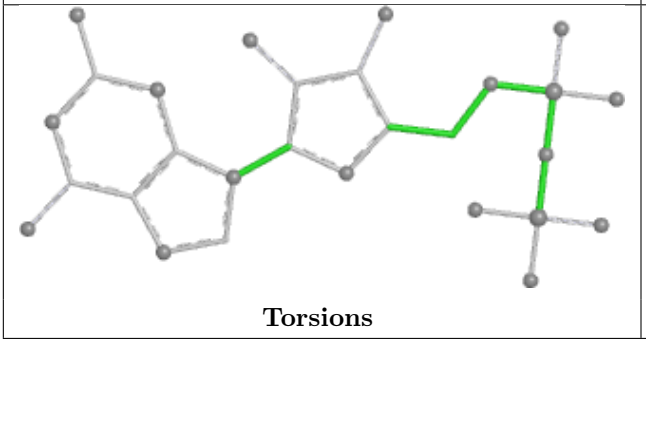
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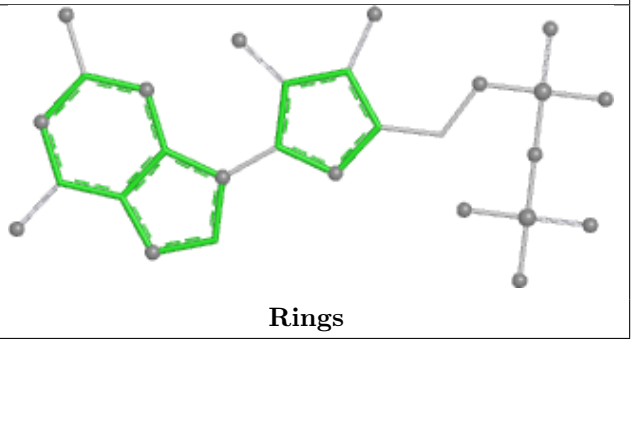
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Bond angles

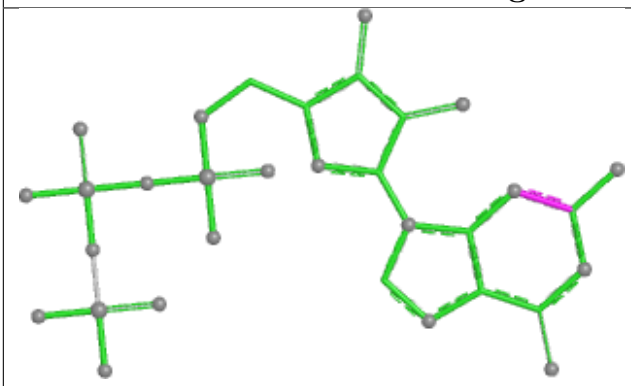


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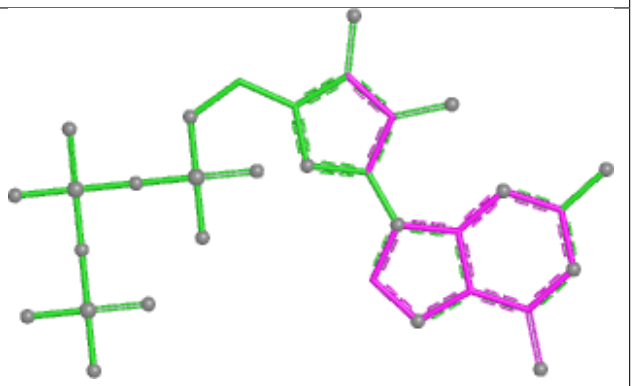


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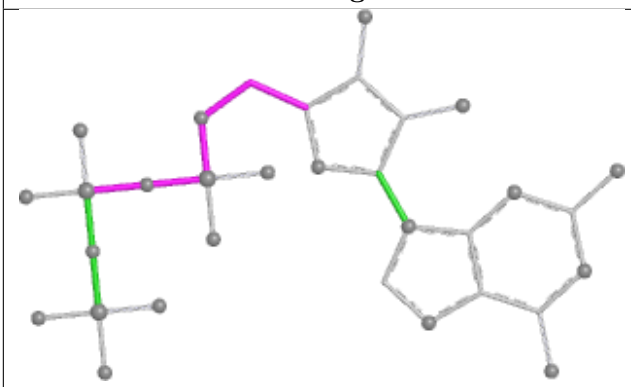
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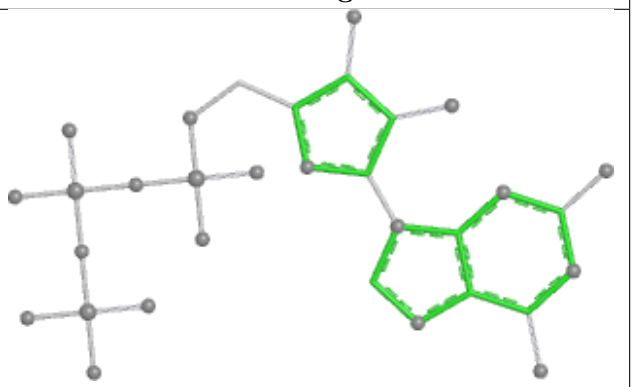
Bond lengths



Bond angles

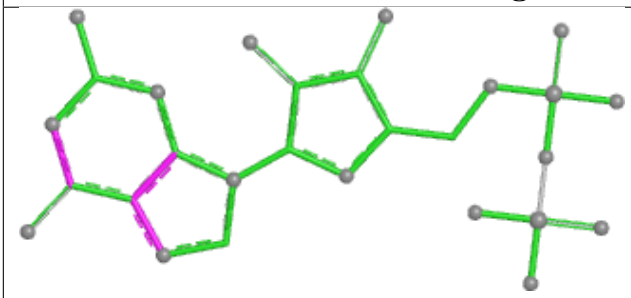


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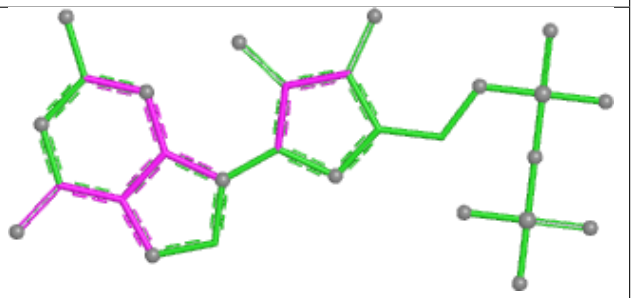


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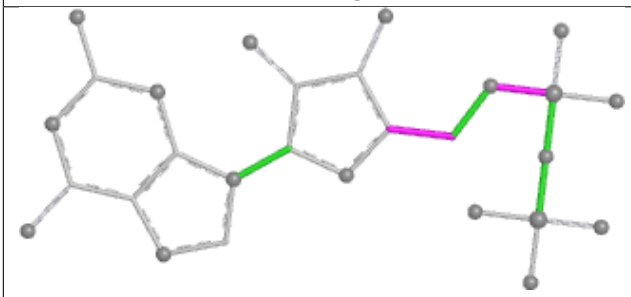
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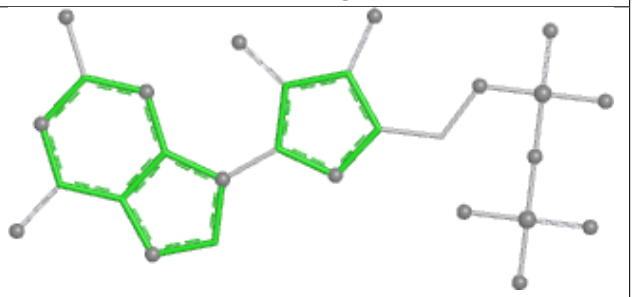
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Bond angles

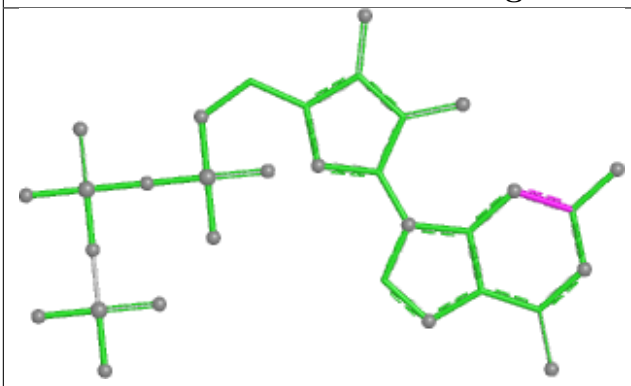


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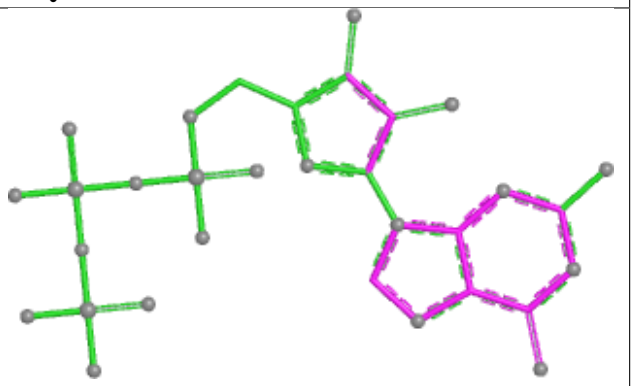


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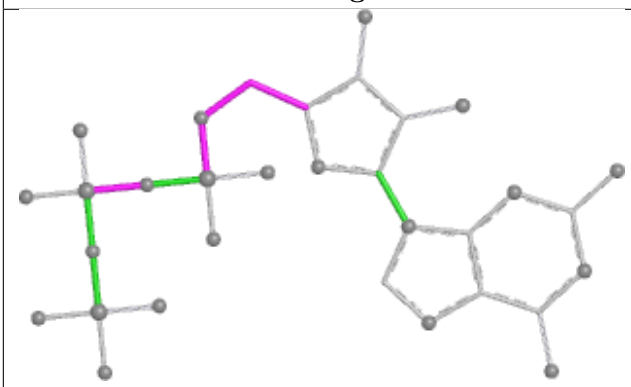
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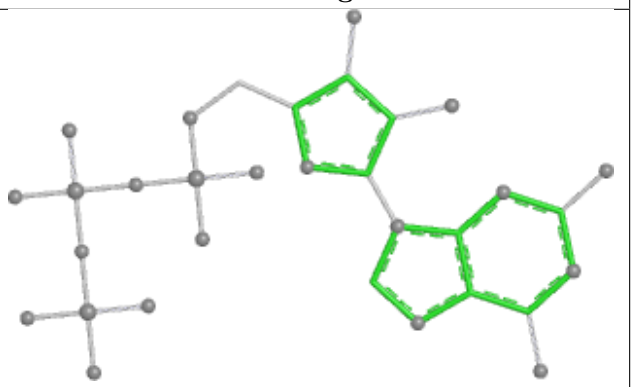
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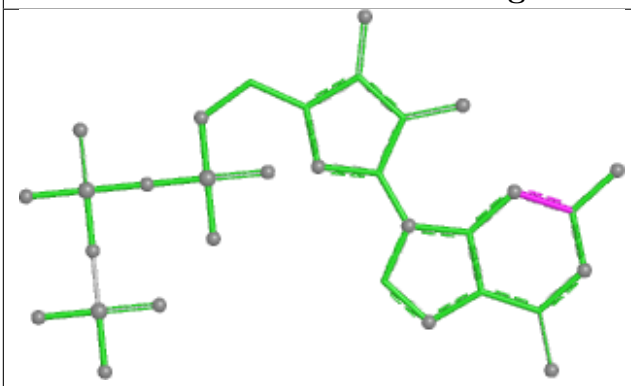


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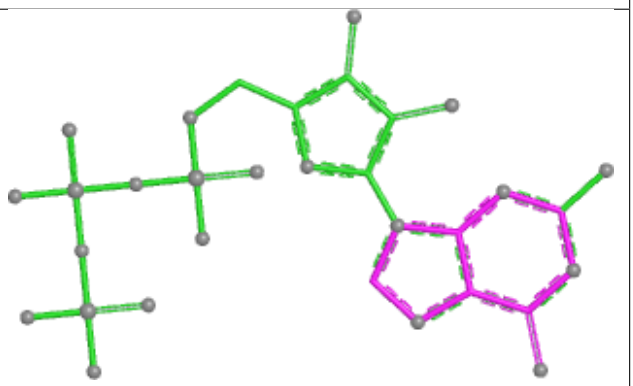


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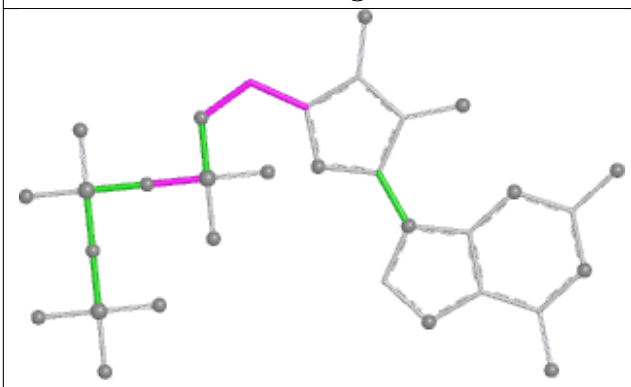
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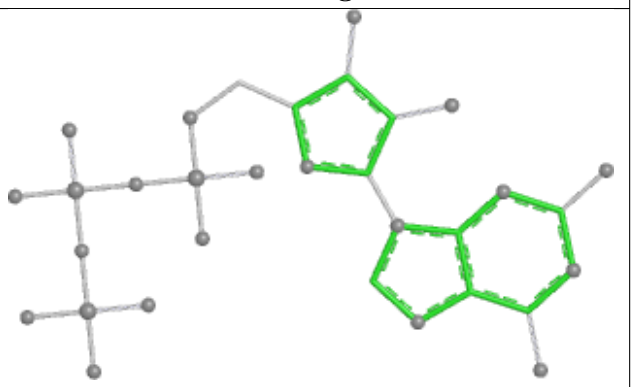
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Bond angles

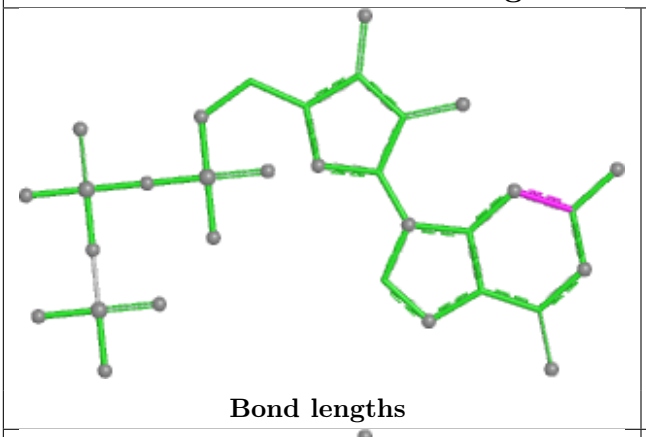


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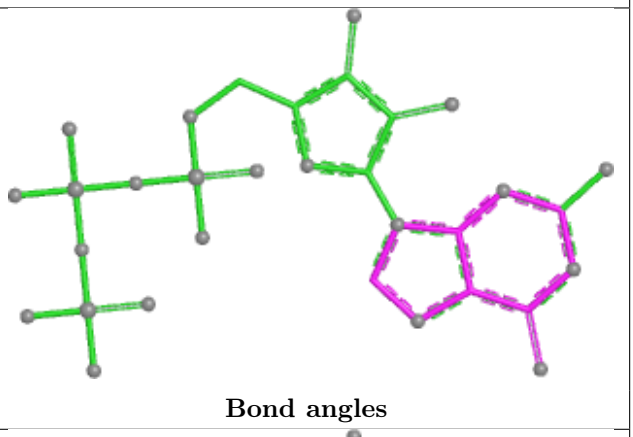


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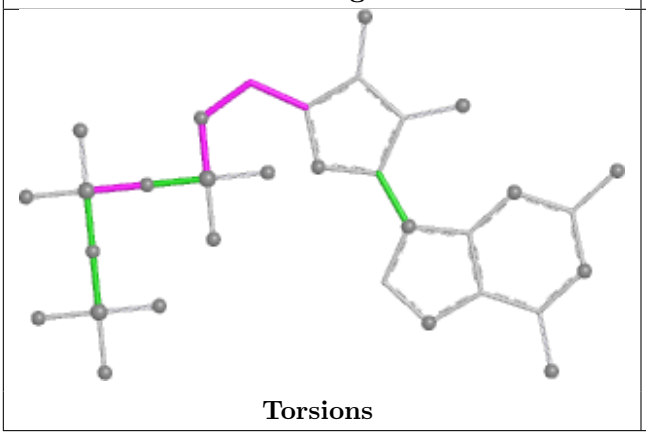
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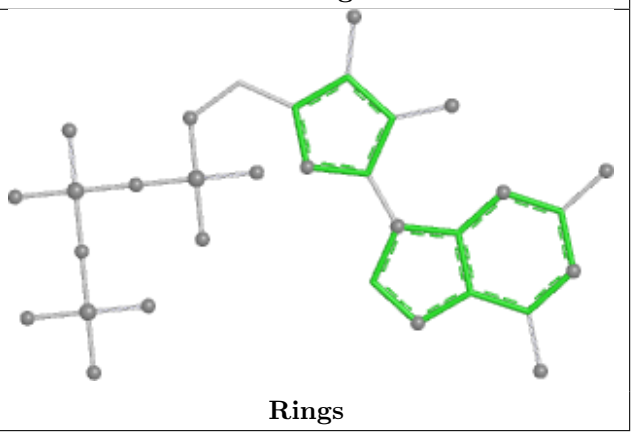
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Bond angles

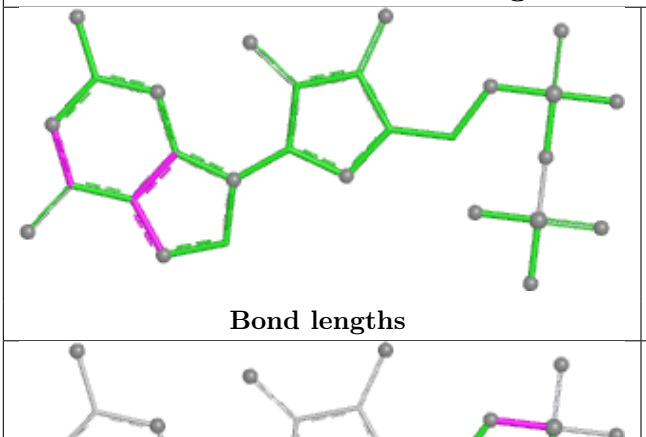


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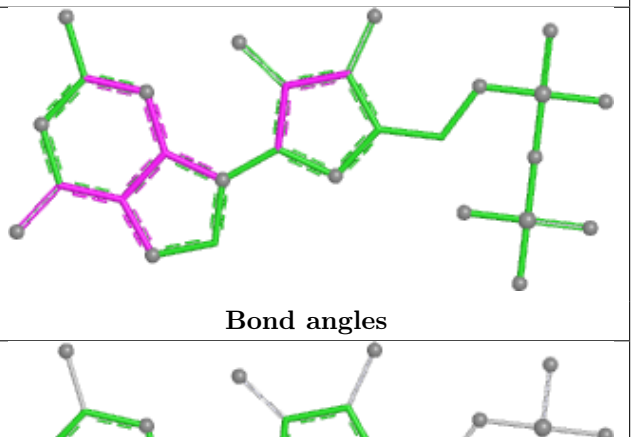


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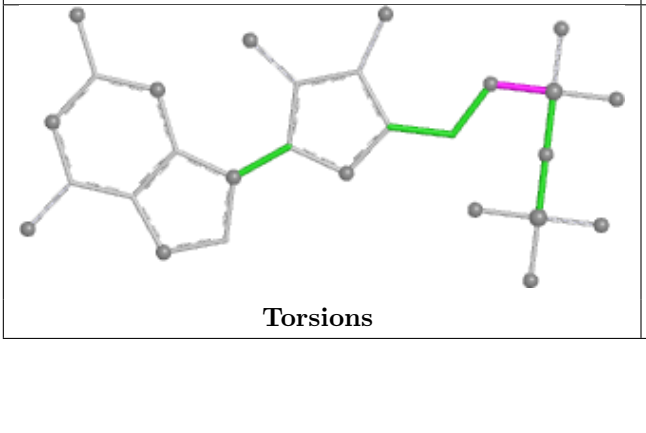
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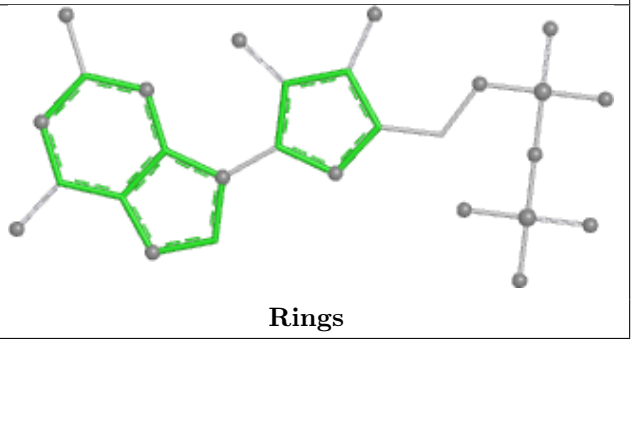
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Bond angles

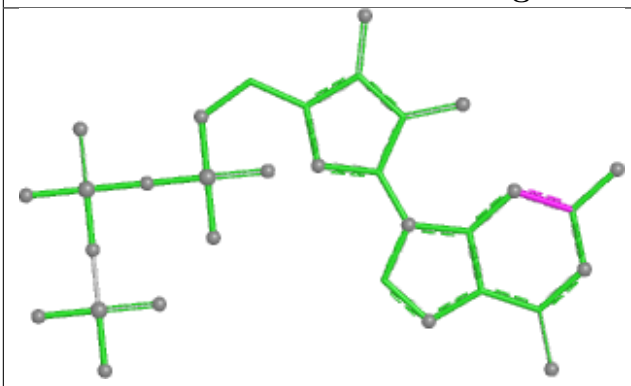


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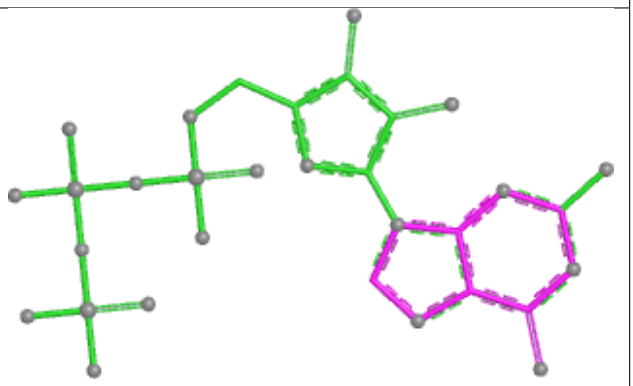


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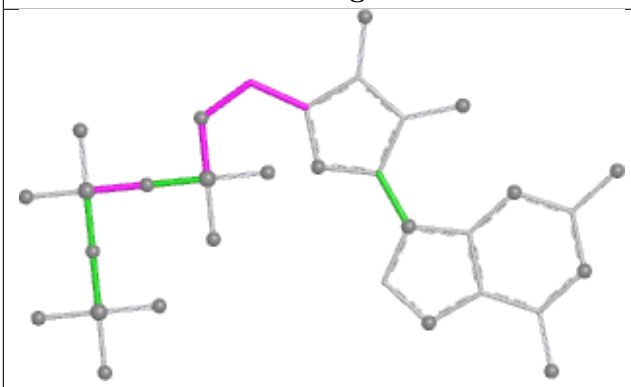
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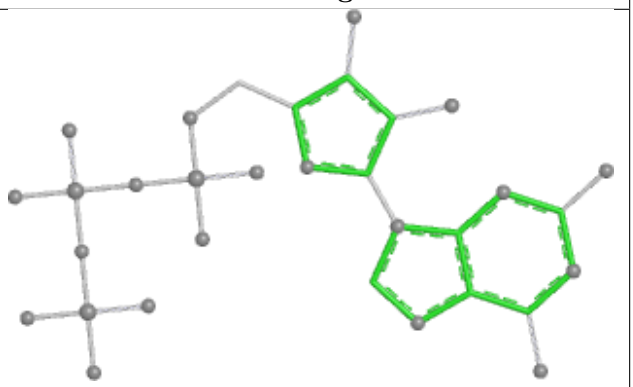
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Bond angles

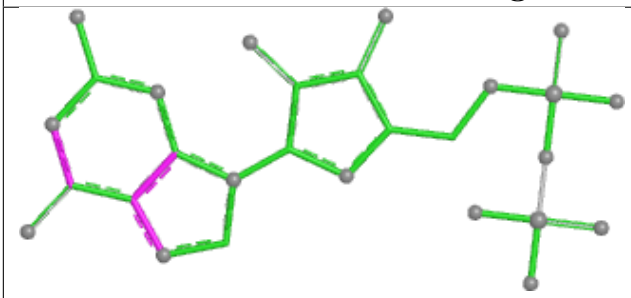


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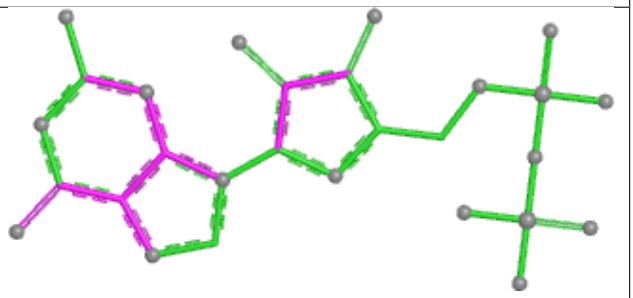


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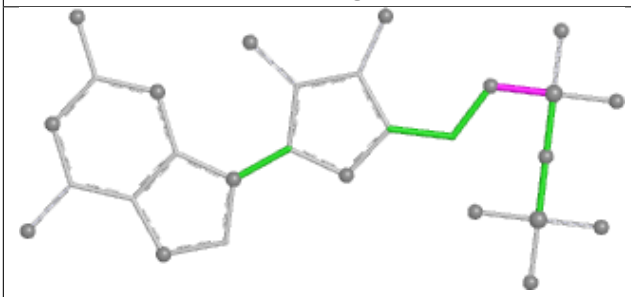
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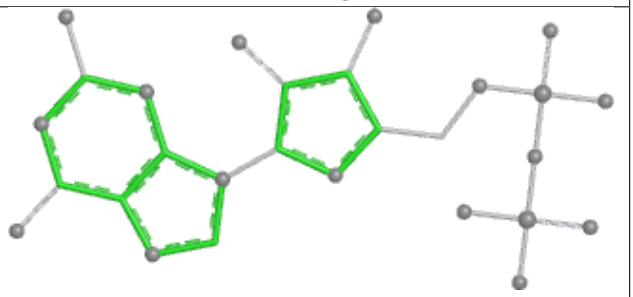
Bond lengths



Bond angles

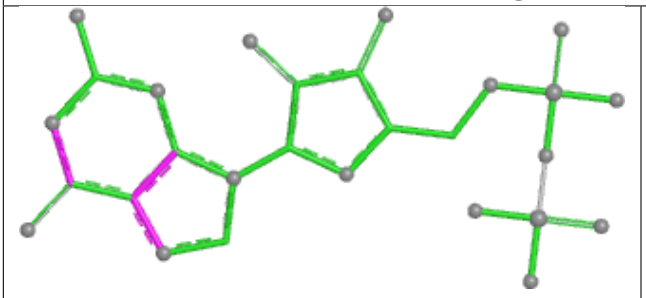


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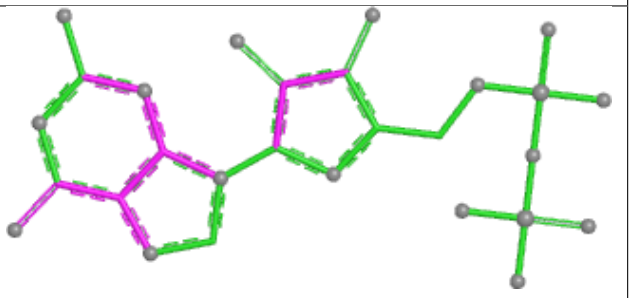


Rings

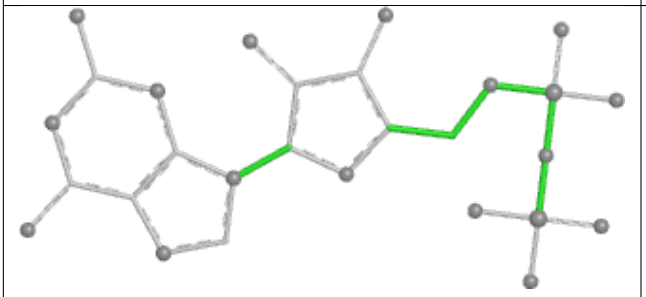
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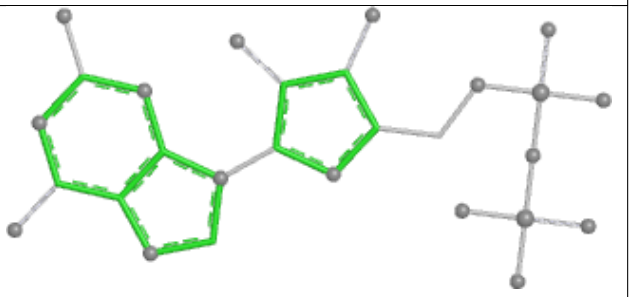
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Bond angles

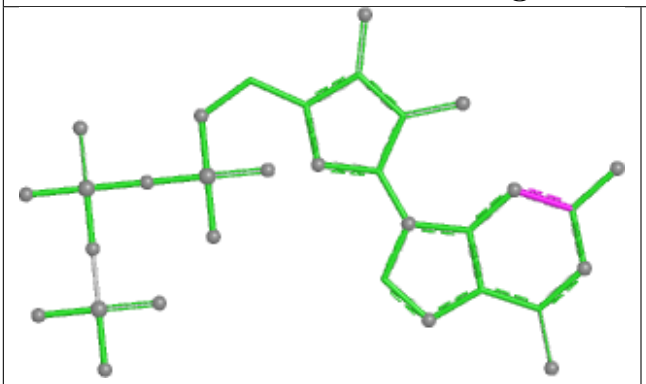


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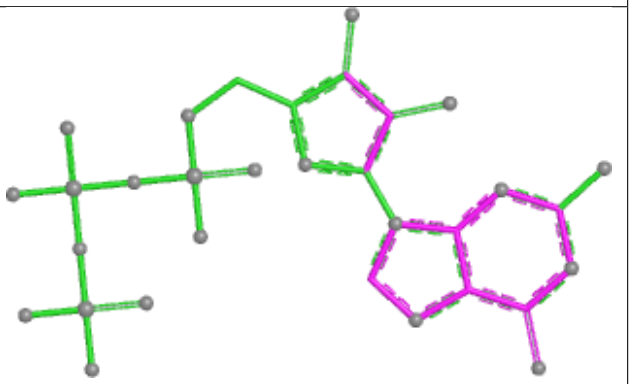


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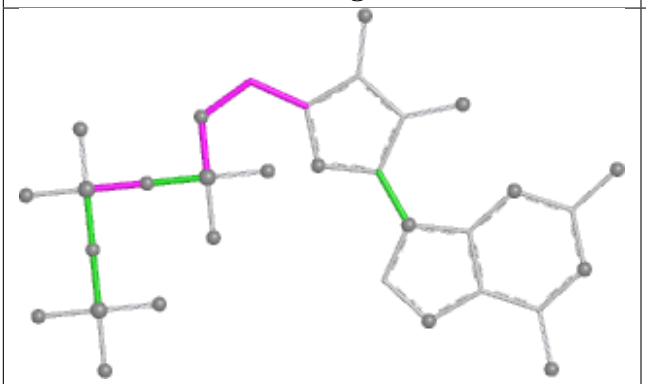
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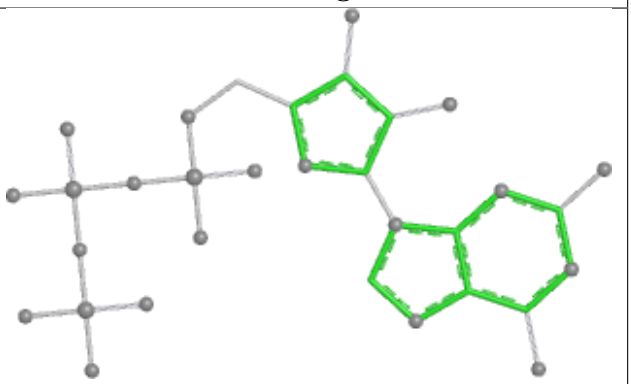
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Bond angles

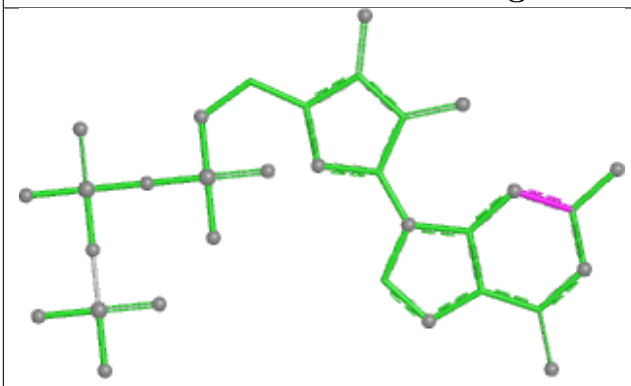


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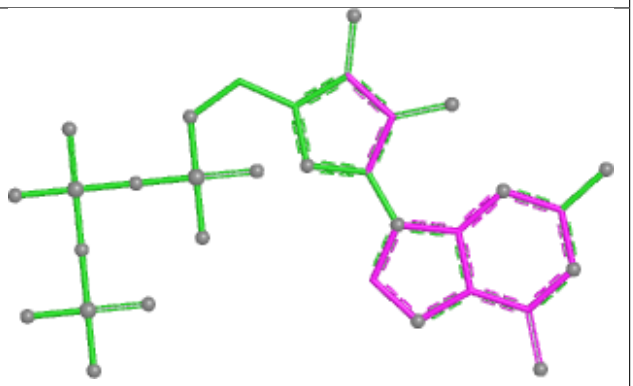


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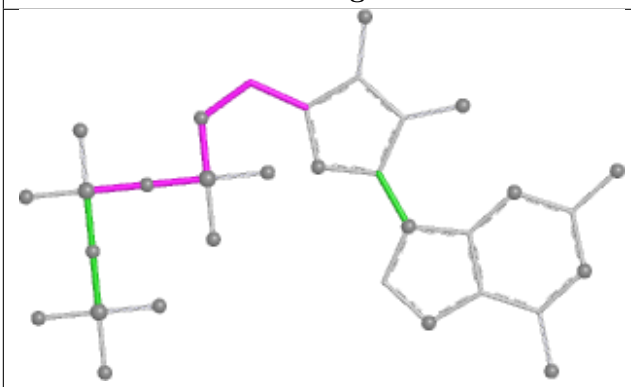
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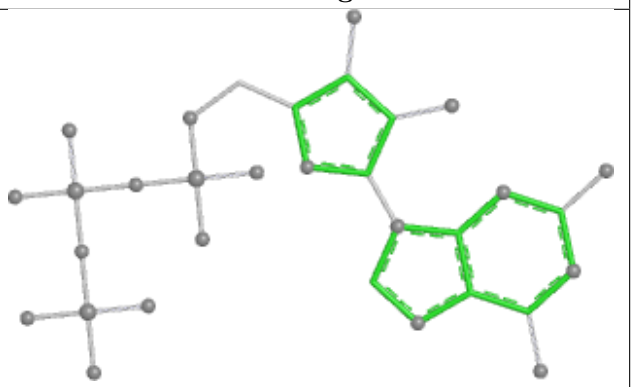
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Bond angles

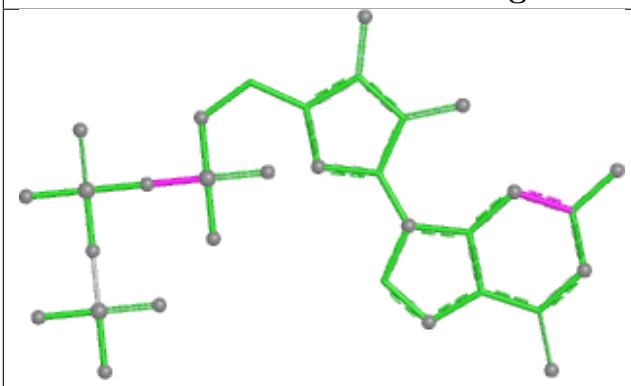


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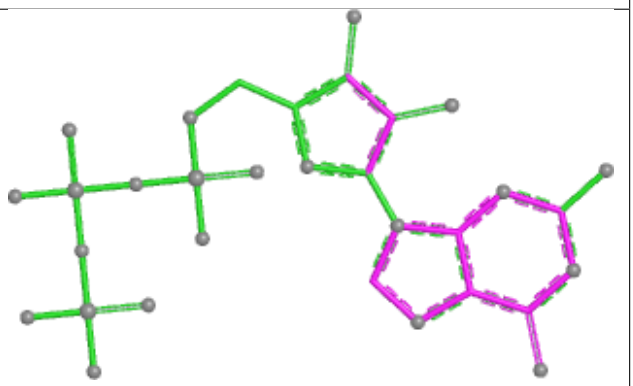


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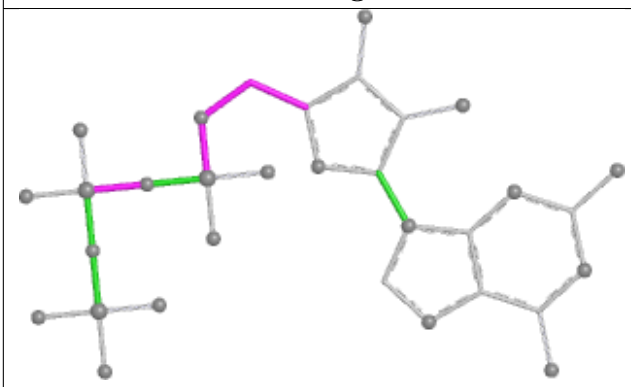
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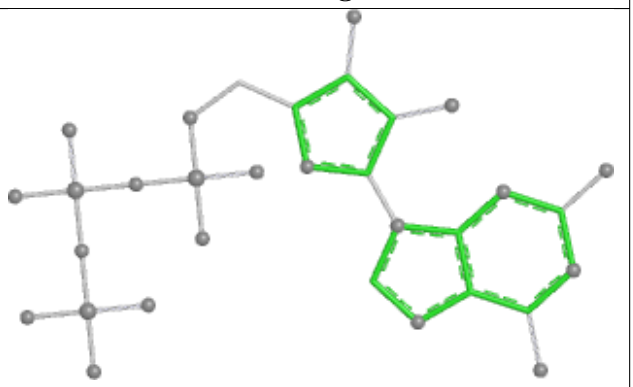
Bond lengths



Bond angles

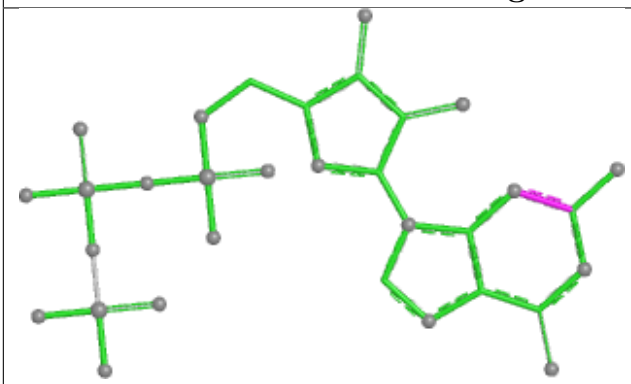


Torsions

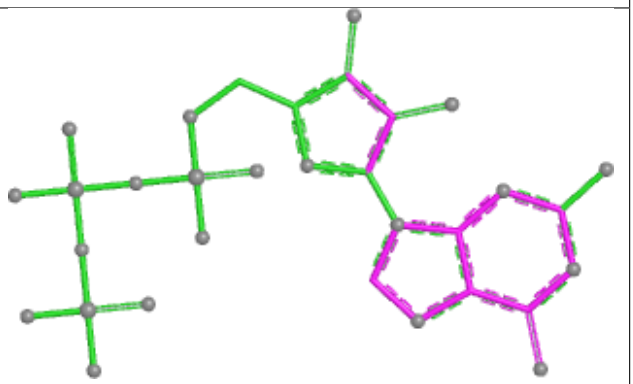


Rings

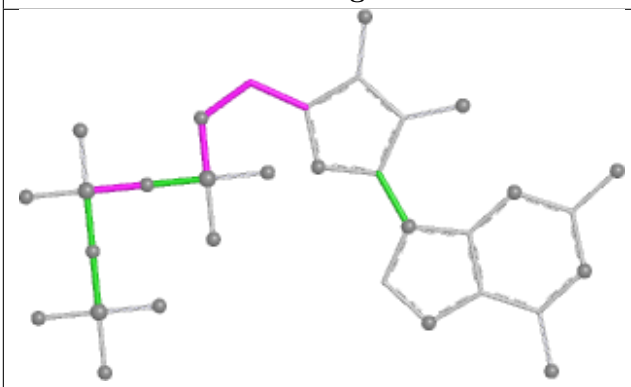
Ligand GTP KG 501



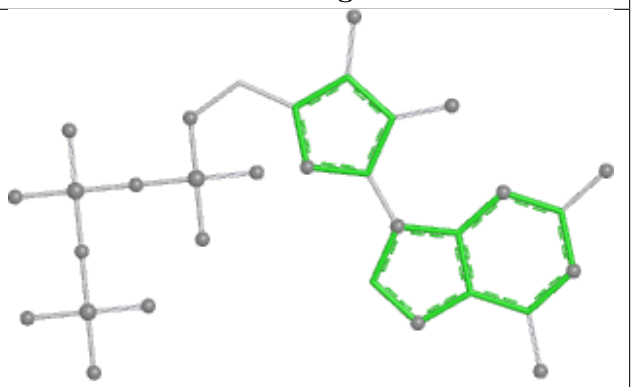
Bond lengths



Bond angles

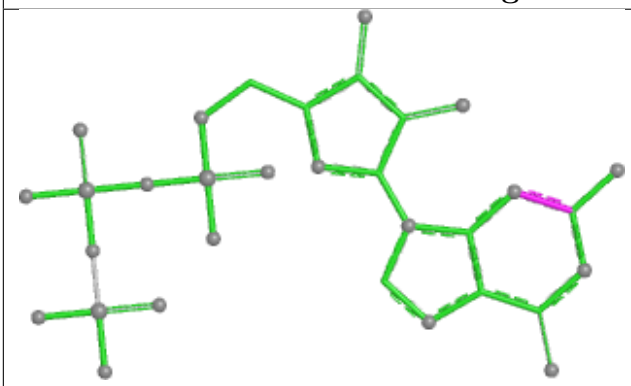


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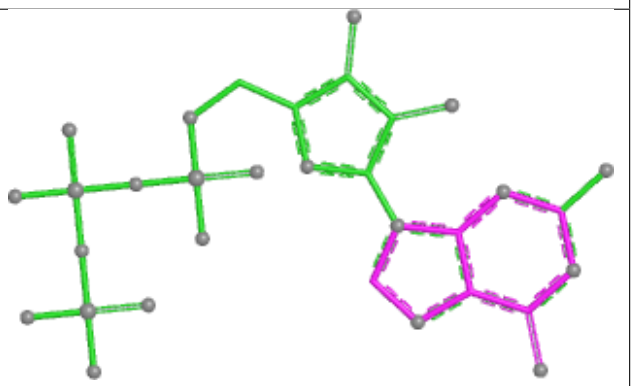


Rings

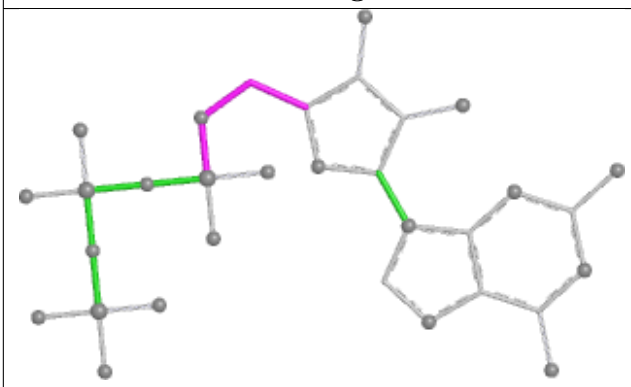
Ligand GTP MM 501



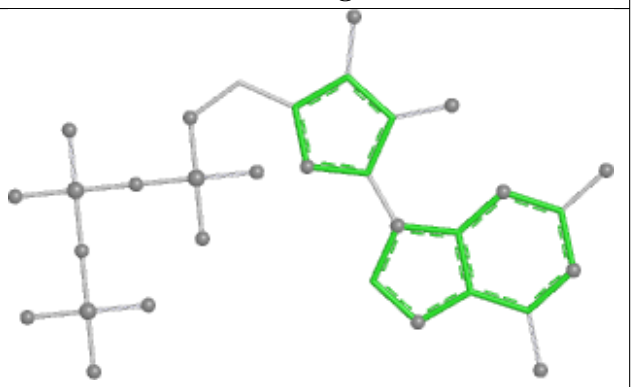
Bond lengths



Bond angles

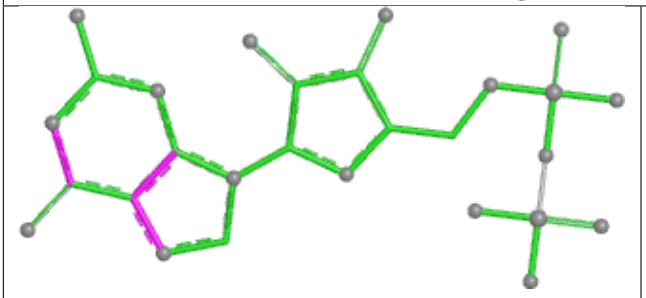


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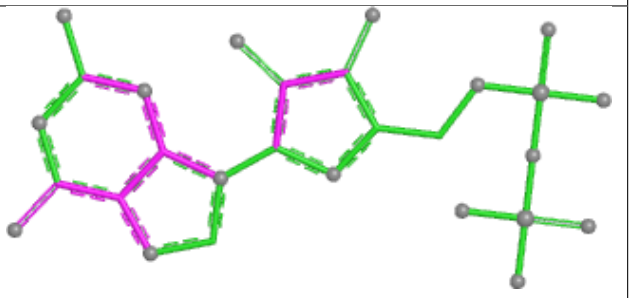


Rings

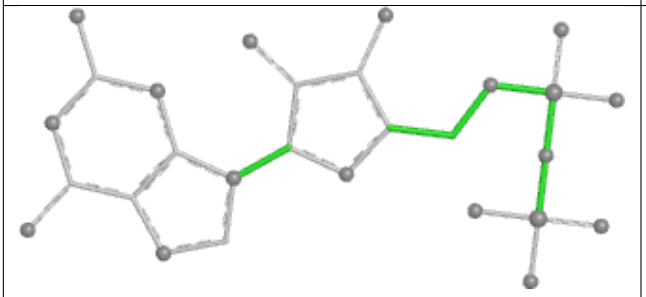
Ligand GDP PJ 501



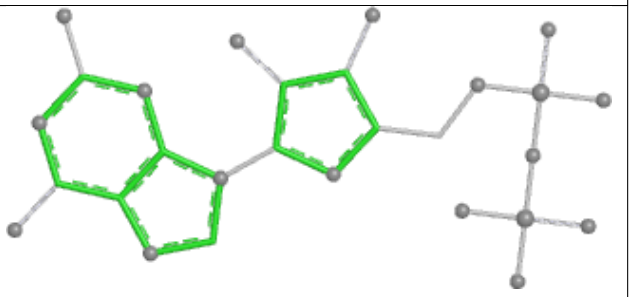
Bond lengths



Bond angles

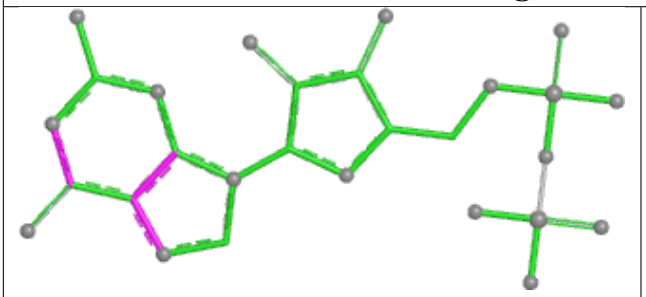


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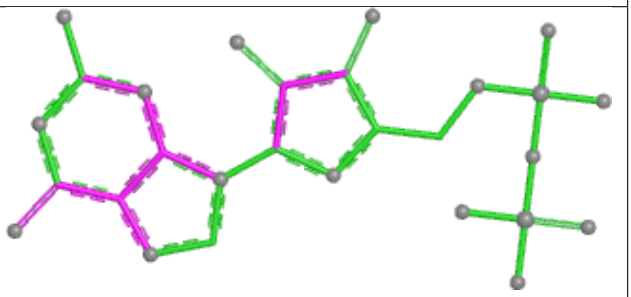


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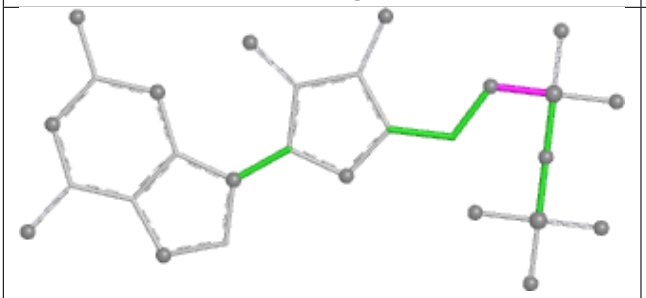
Ligand GDP EJ 501



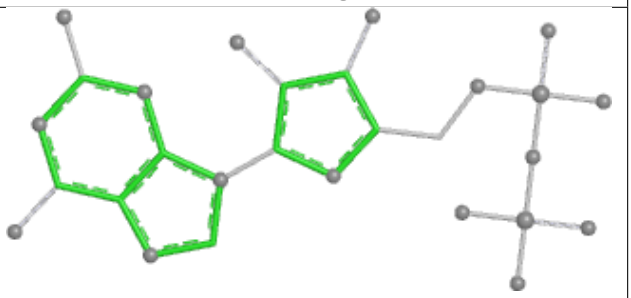
Bond lengths



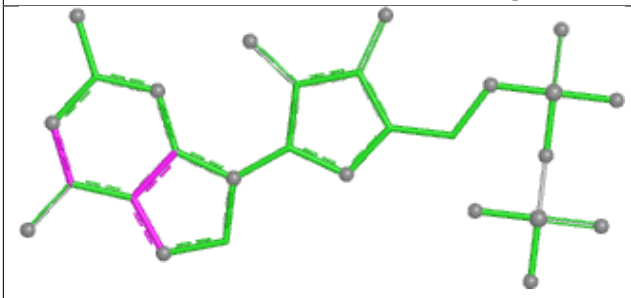
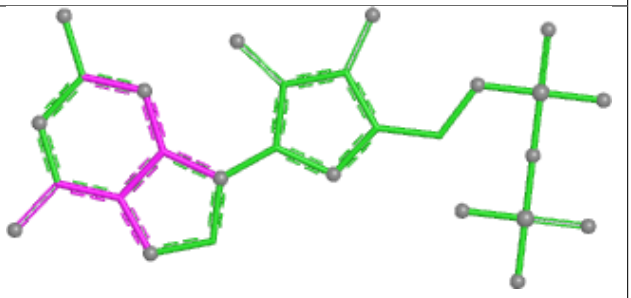
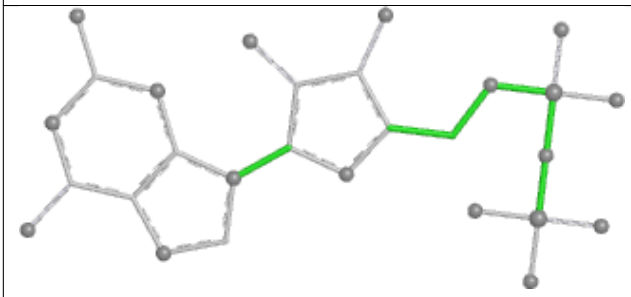
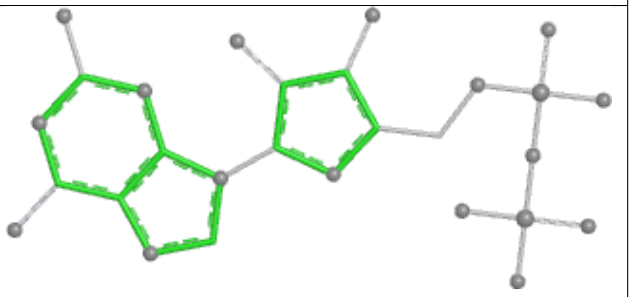
Bond angles

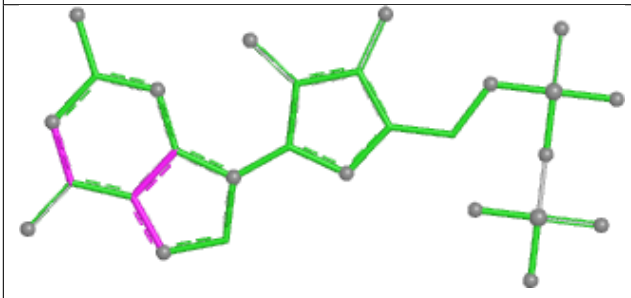
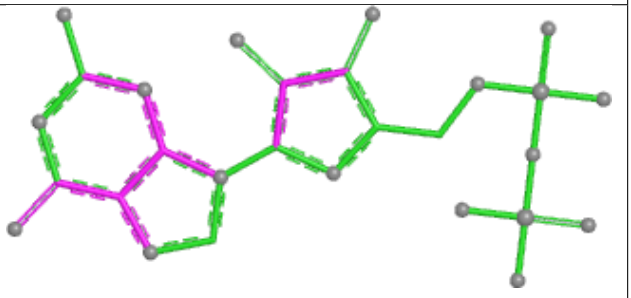
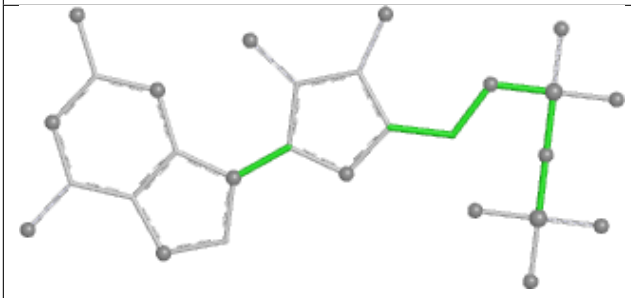
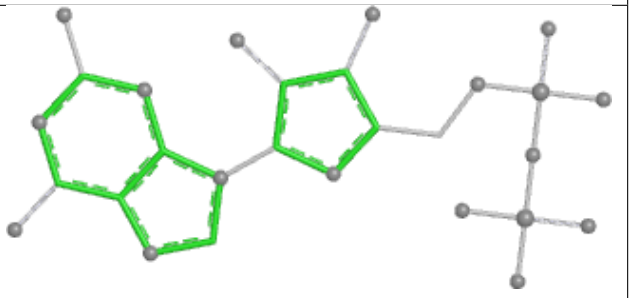


Torsions

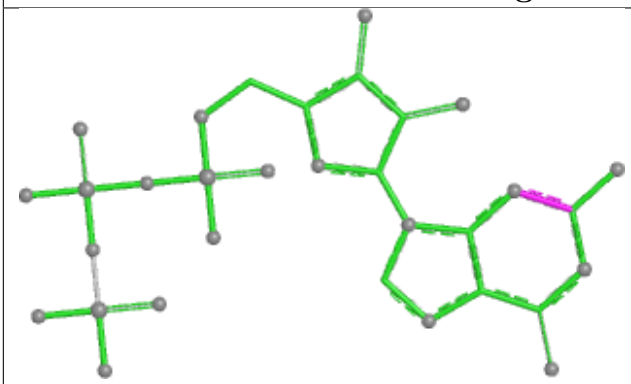


Rings

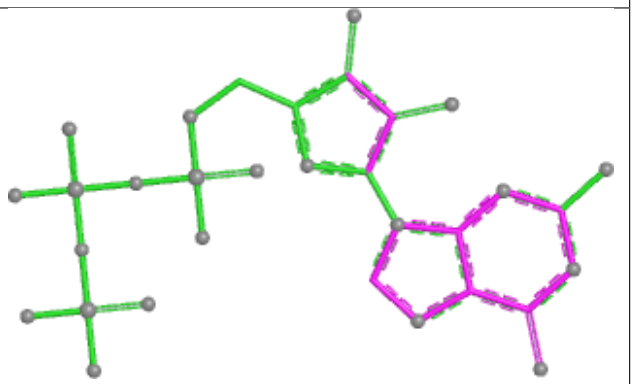
Ligand GDP KN 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GDP VB 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

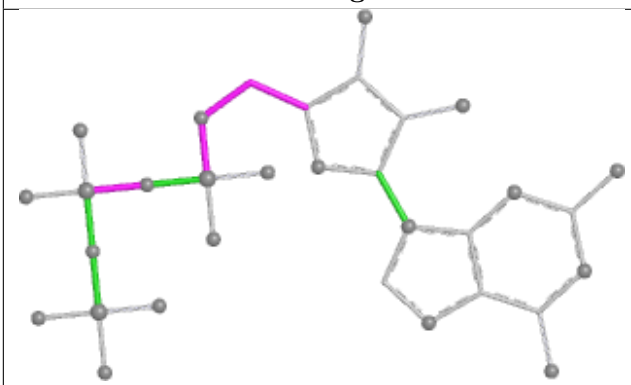
Ligand GTP IA 501



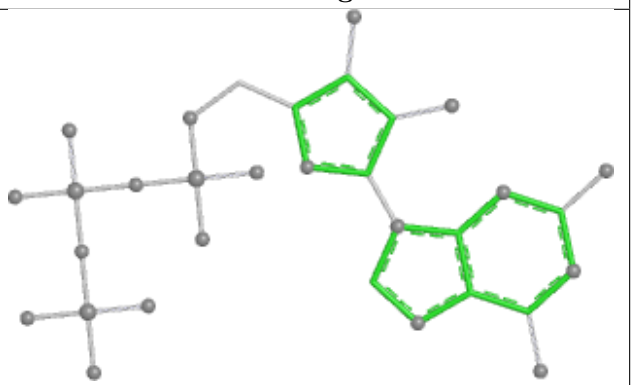
Bond lengths



Bond angles

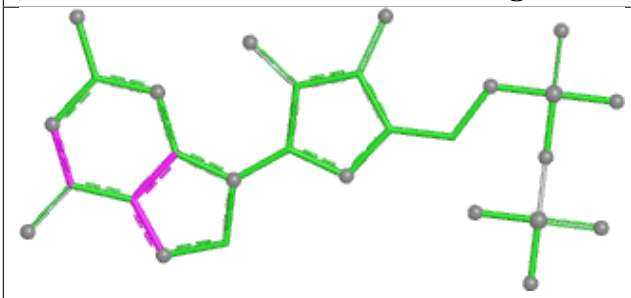


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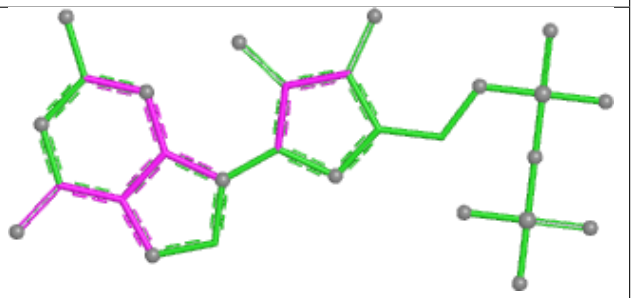


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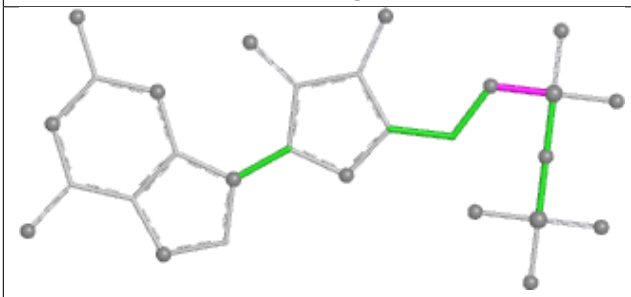
Ligand GDP UB 501



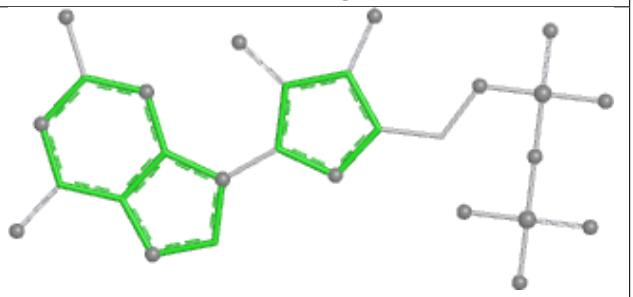
Bond lengths



Bond angles

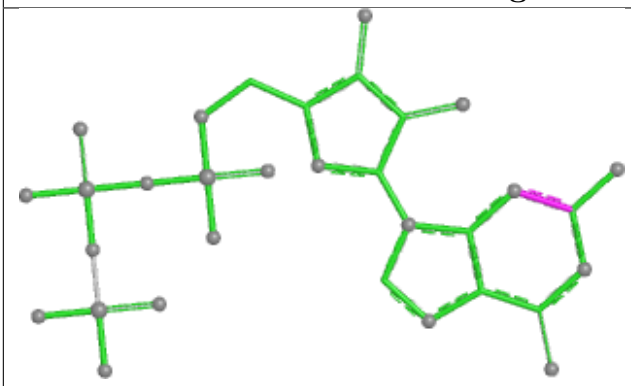


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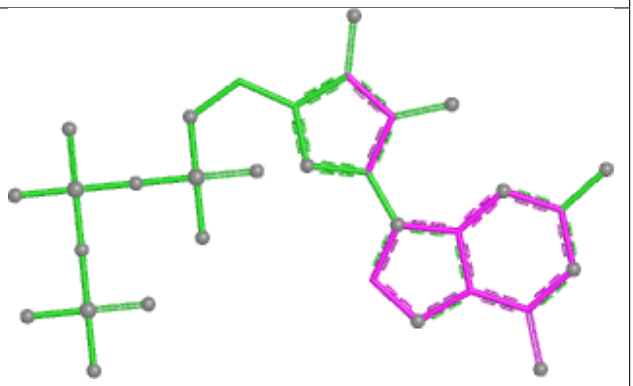


Rings

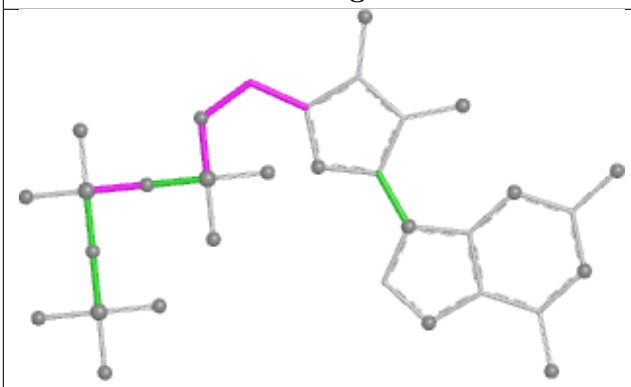
Ligand GTP BA 501



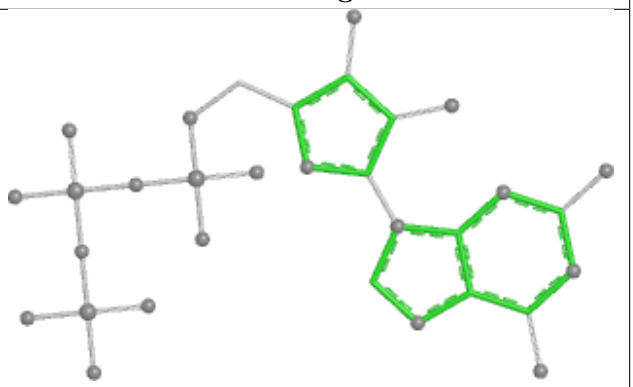
Bond lengths



Bond angles

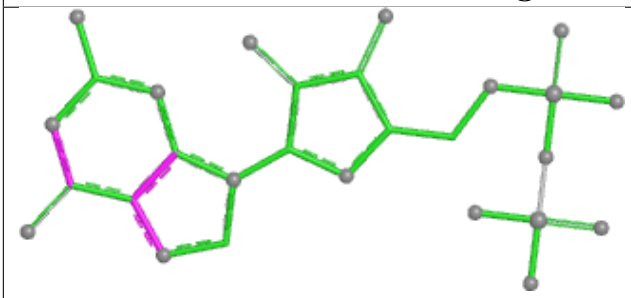


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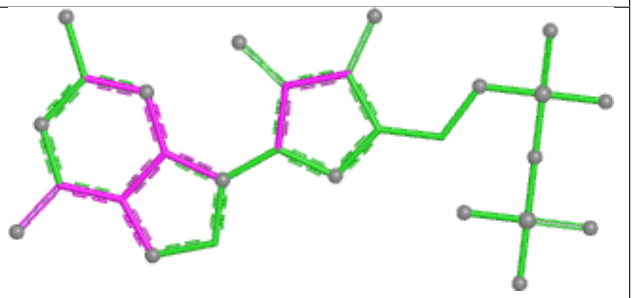


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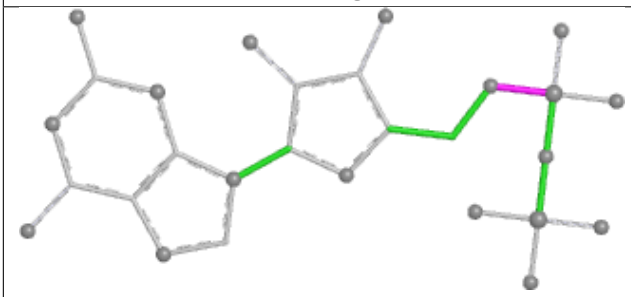
Ligand GDP JJ 501



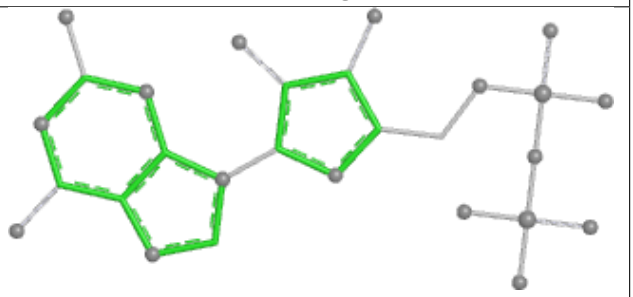
Bond lengths



Bond angles

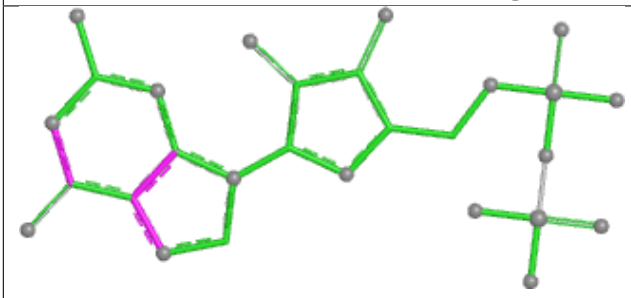


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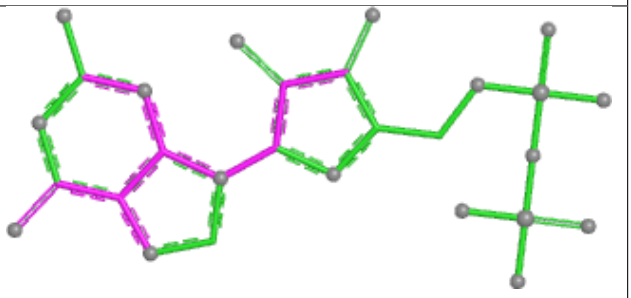


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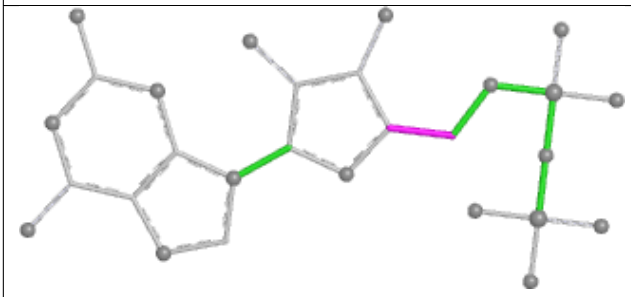
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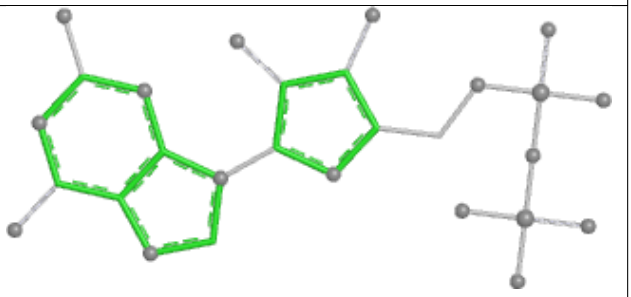
Bond lengths



Bond angles

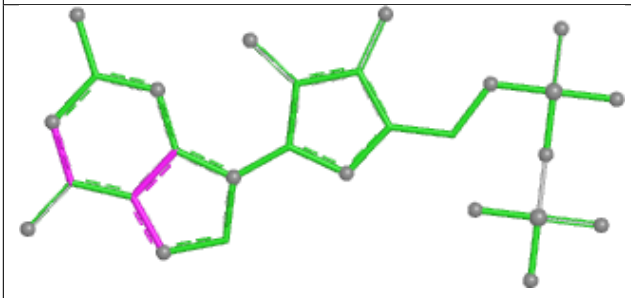


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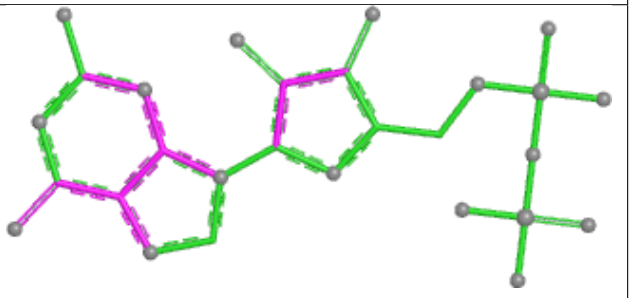


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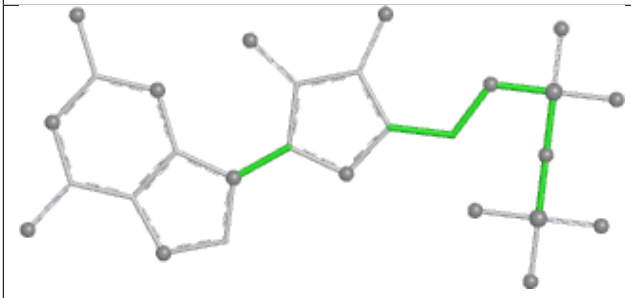
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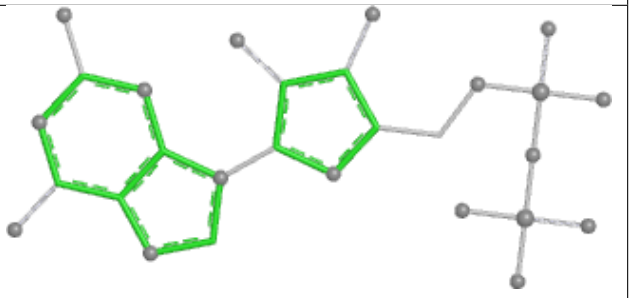
Bond lengths



Bond angles

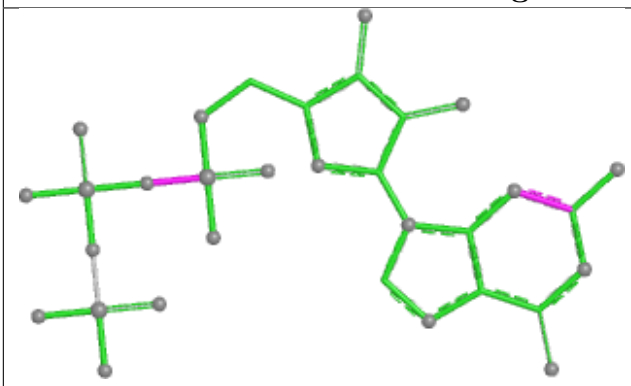


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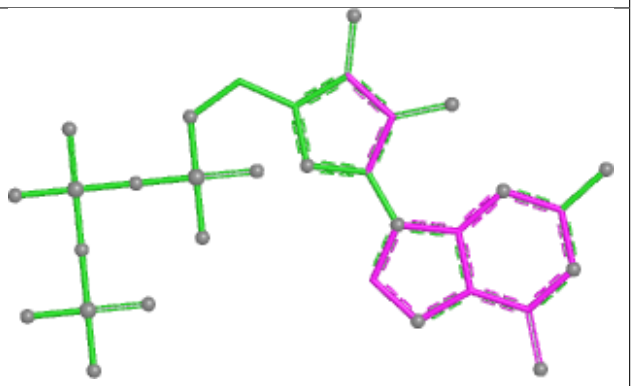


Rings

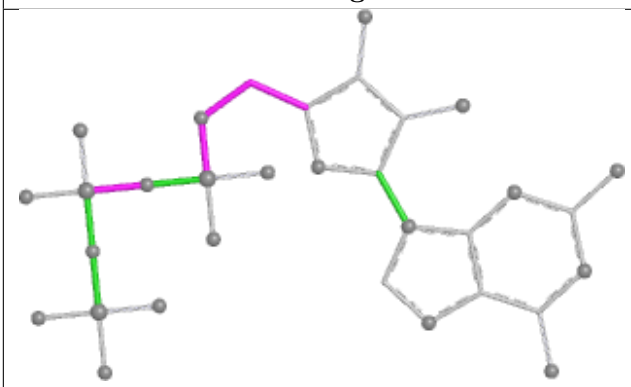
Ligand GTP PA 501



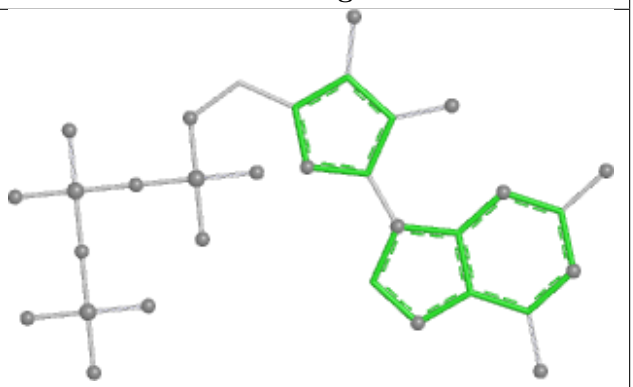
Bond lengths



Bond angles

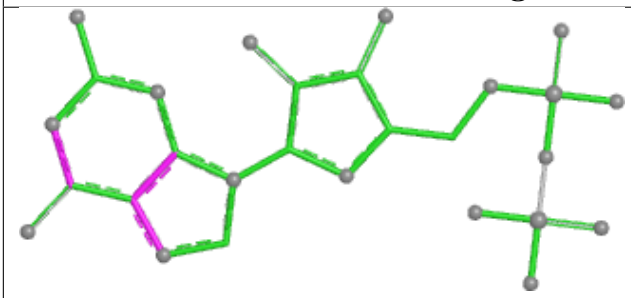


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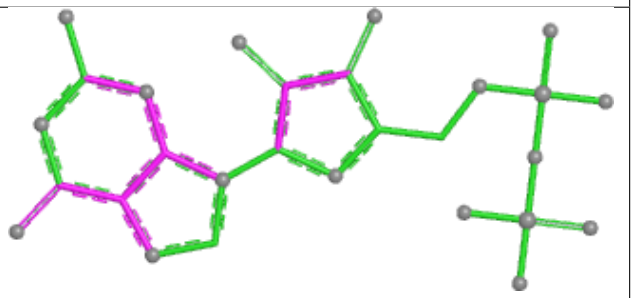


Rings

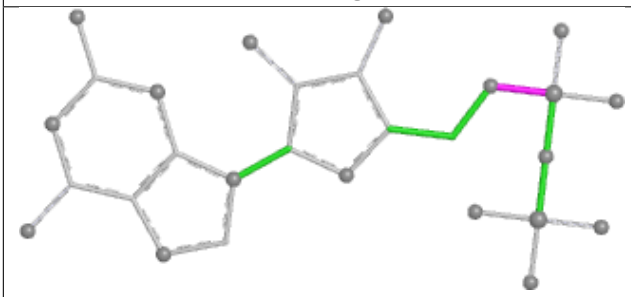
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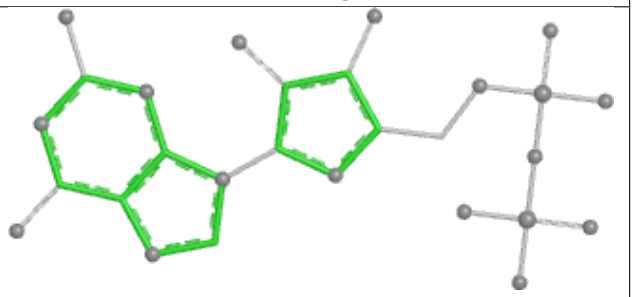
Bond lengths



Bond angles

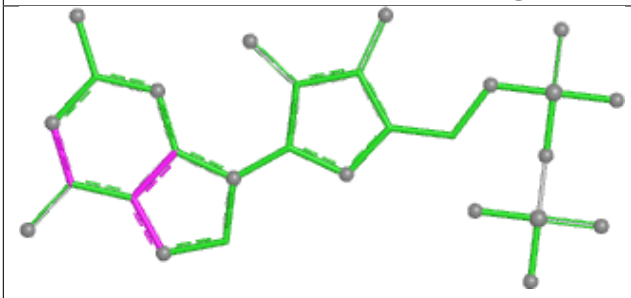


Torsions

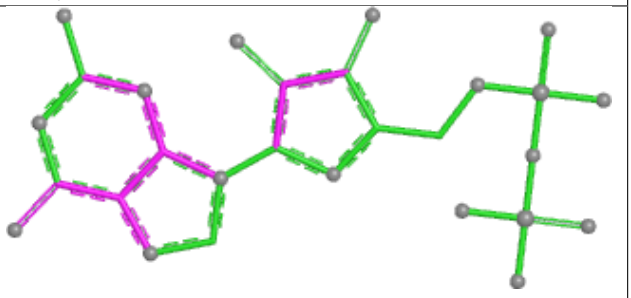


Rings

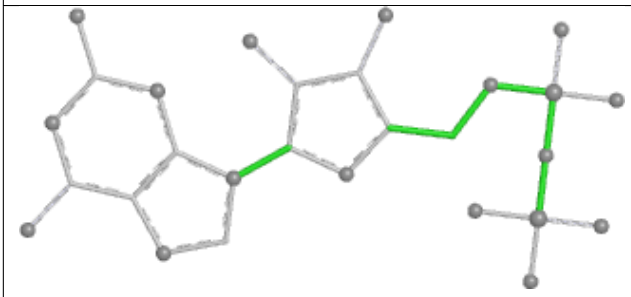
Ligand GDP QL 501



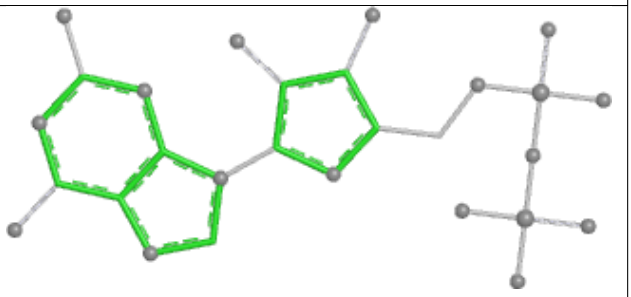
Bond lengths



Bond angles

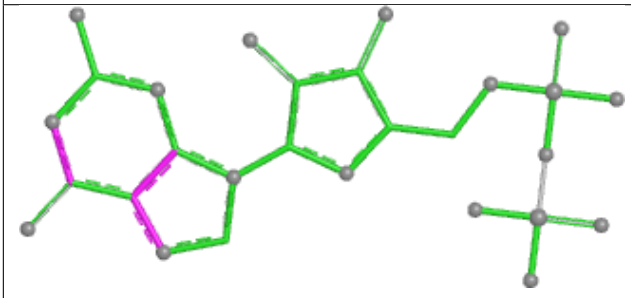


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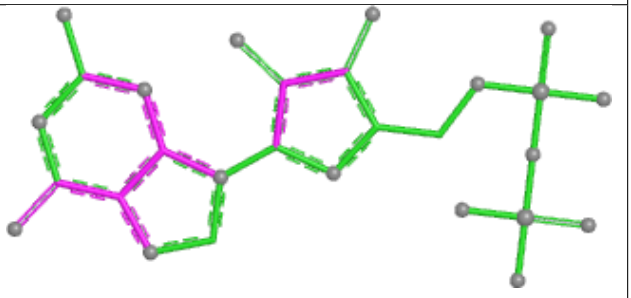


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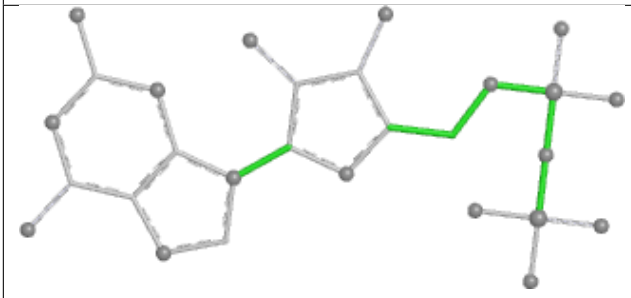
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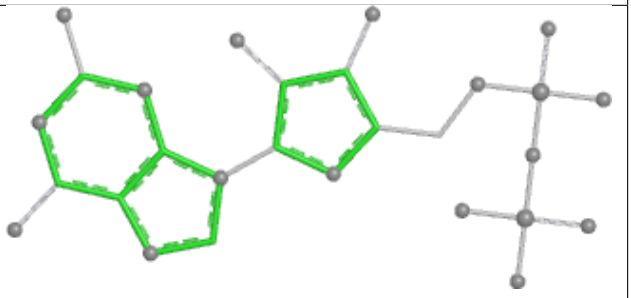
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Bond angles

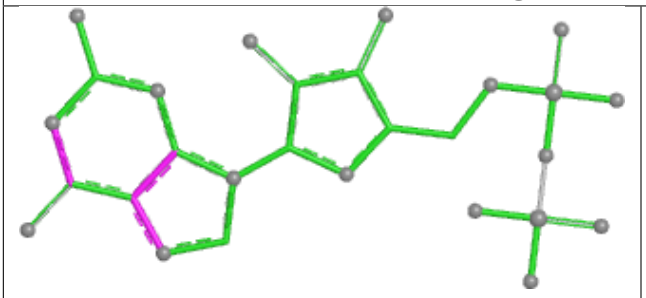


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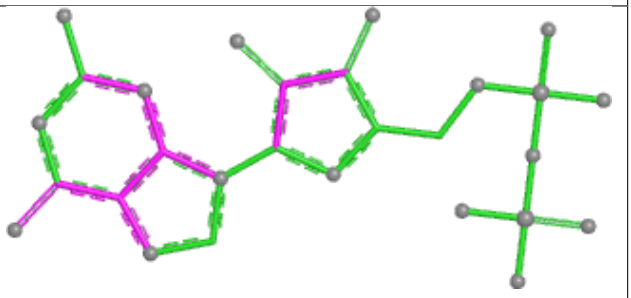


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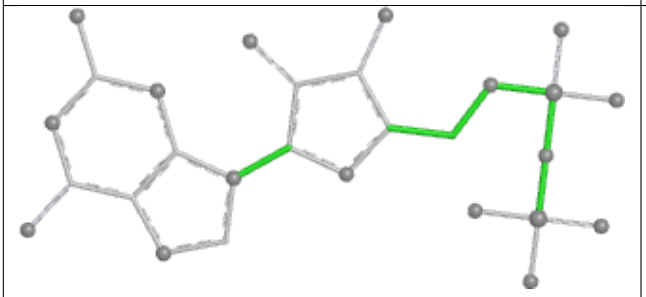
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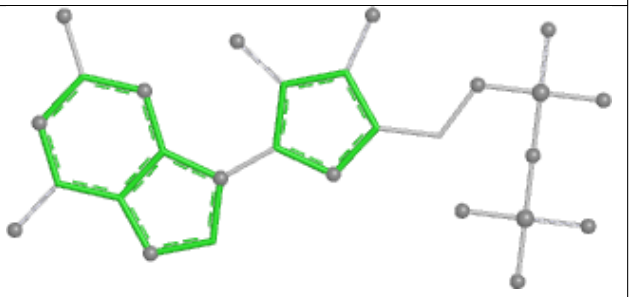
Bond lengths



Bond angles

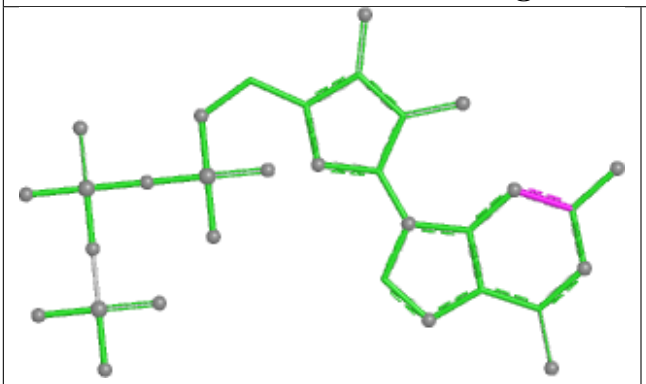


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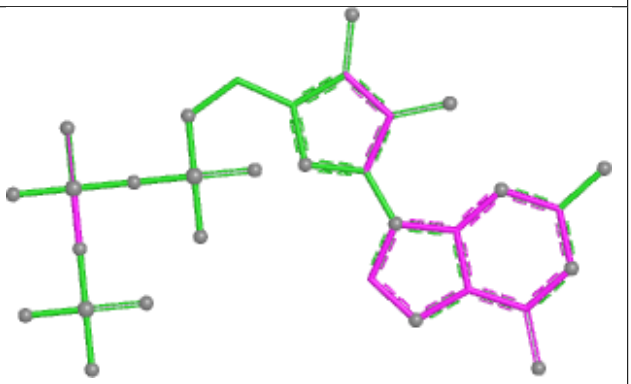


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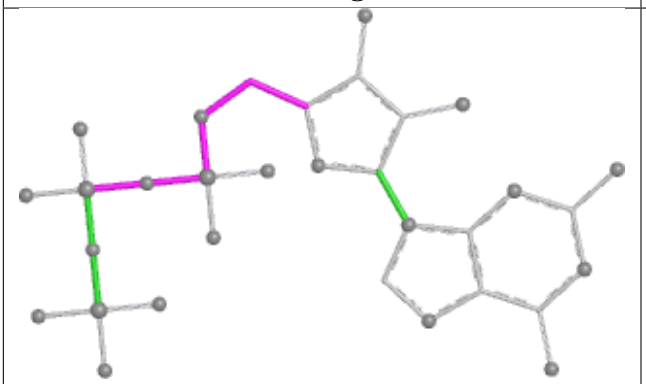
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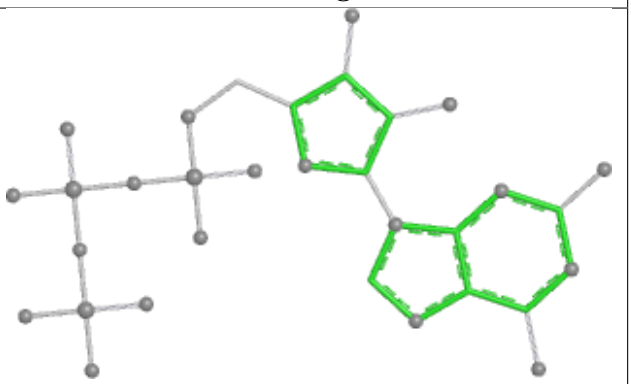
Bond lengths



Bond angles

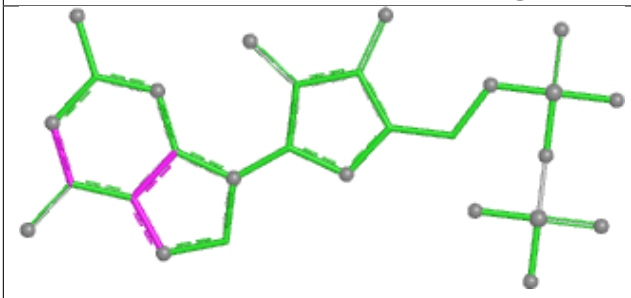


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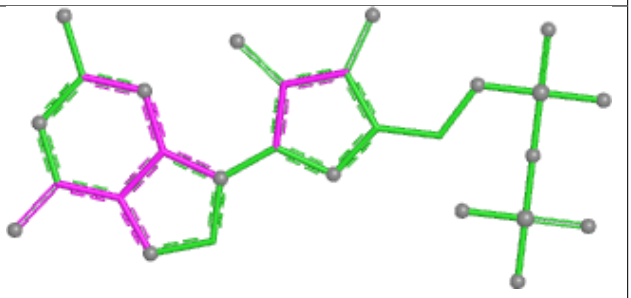


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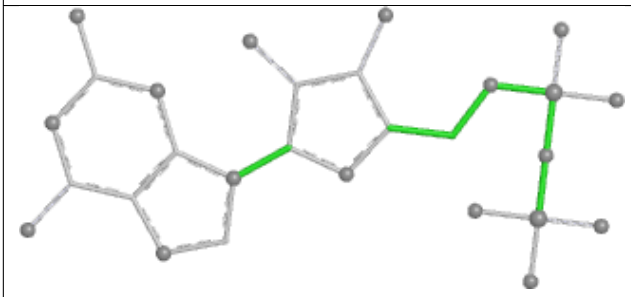
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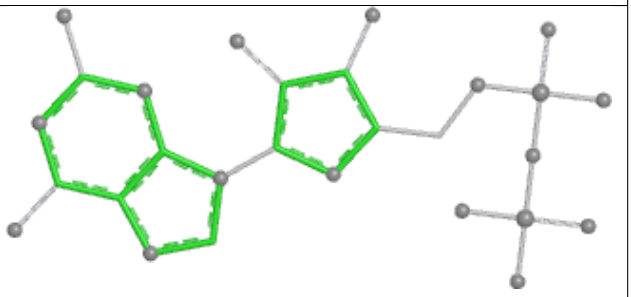
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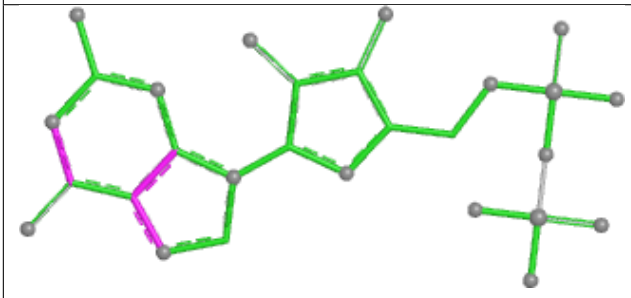


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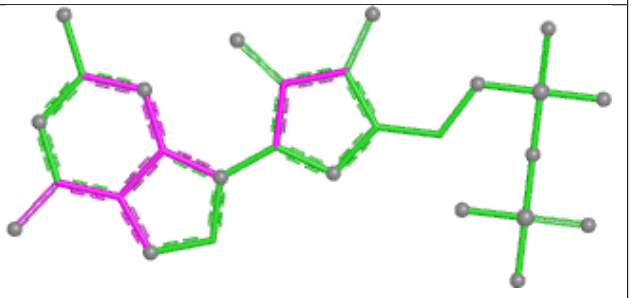


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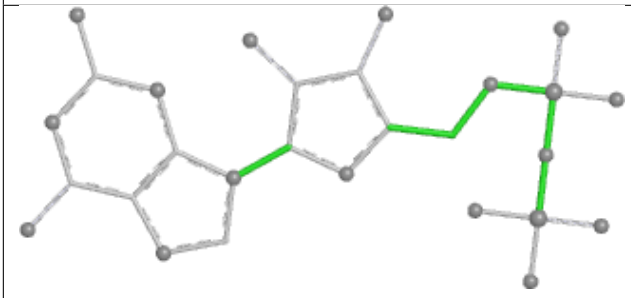
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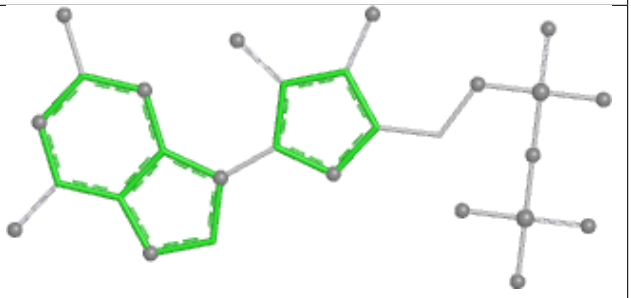
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Bond angles

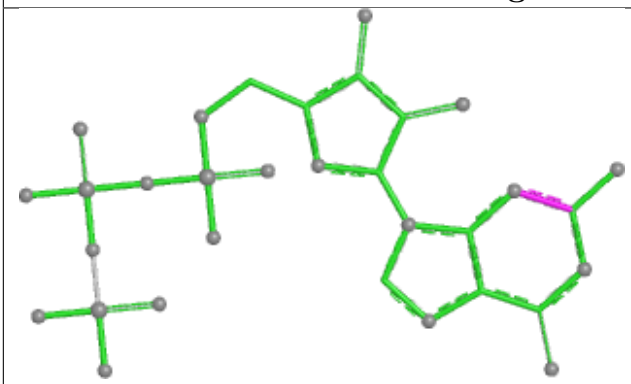


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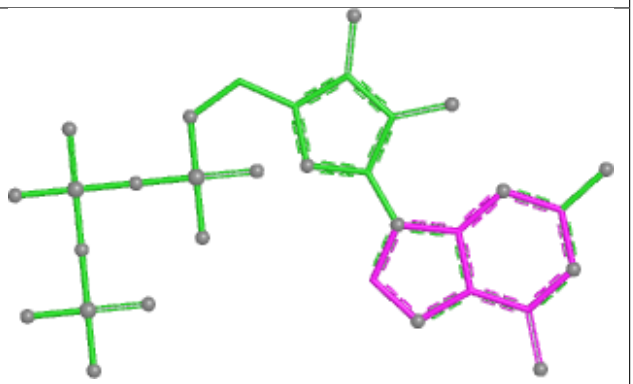


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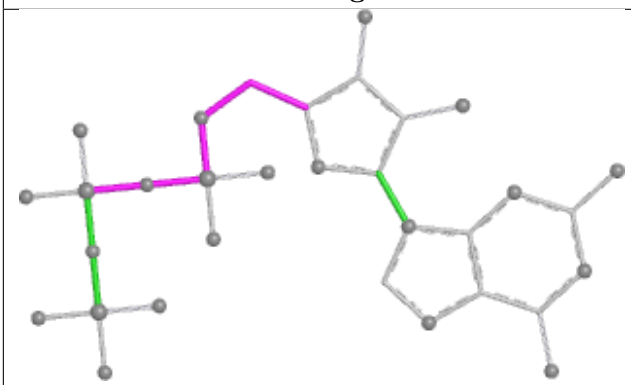
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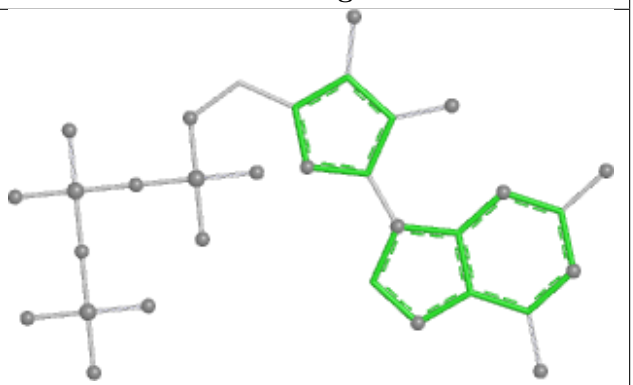
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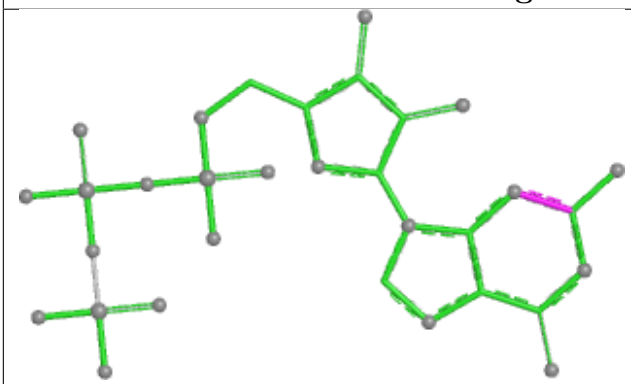


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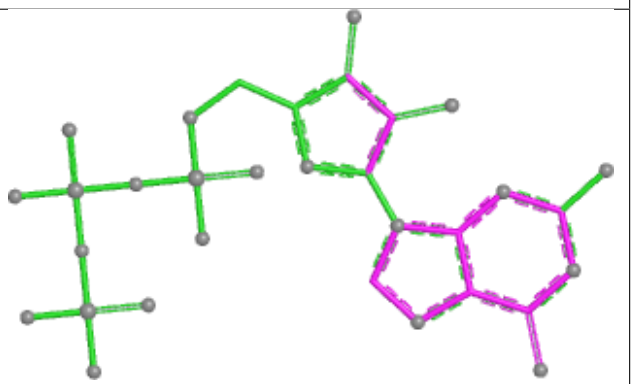


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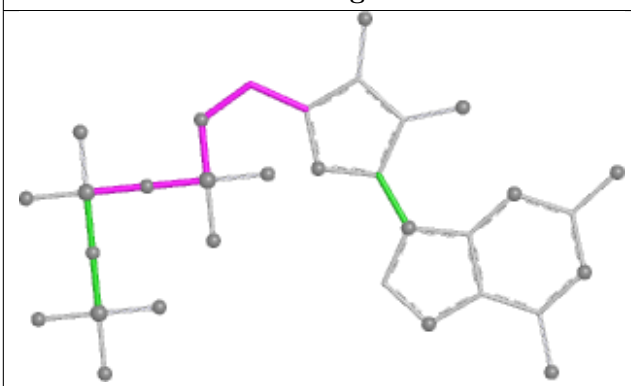
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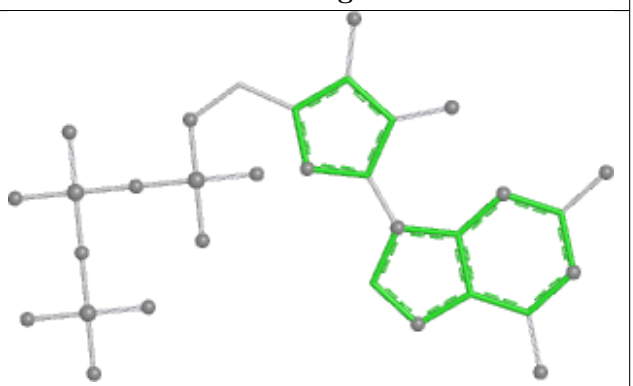
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Bond angles

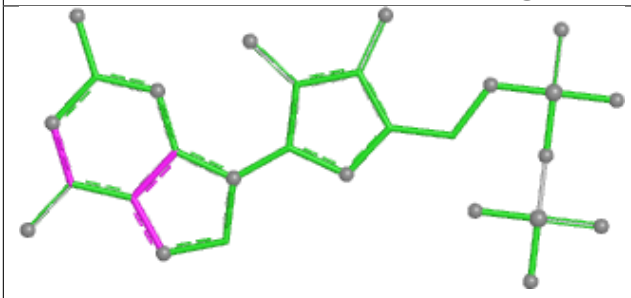


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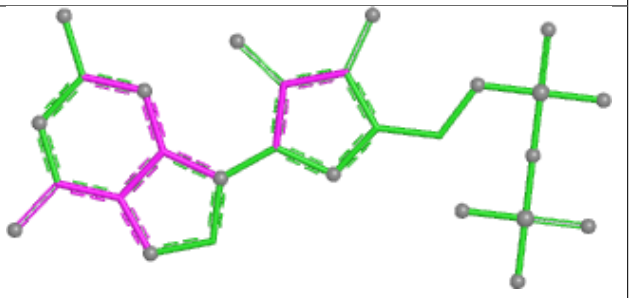


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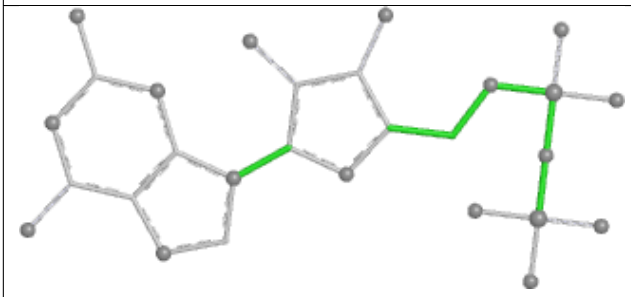
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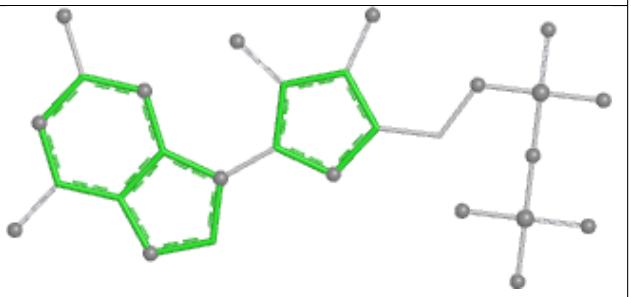
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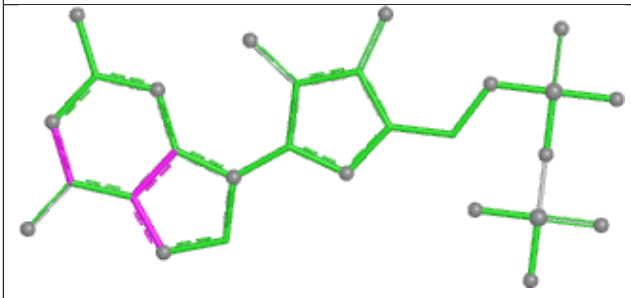


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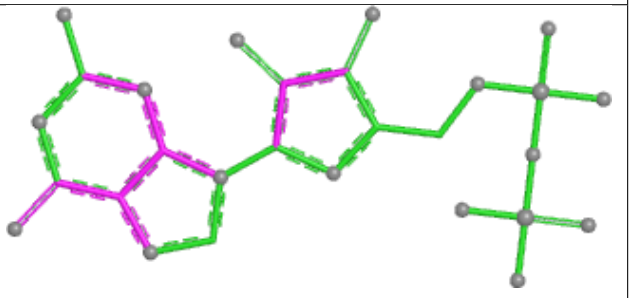


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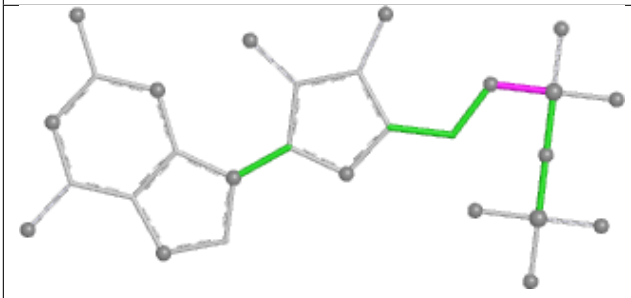
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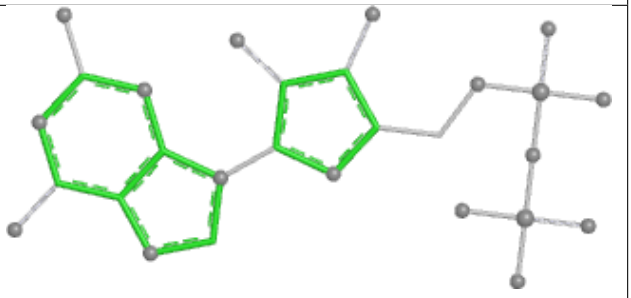
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Bond angles

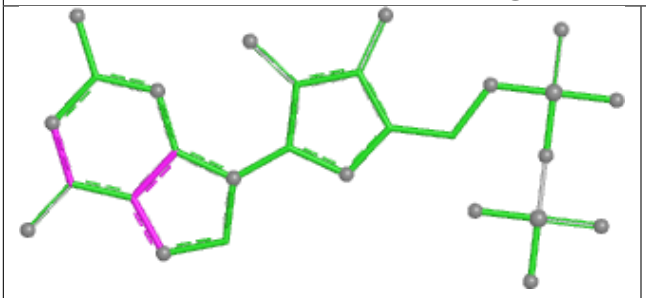


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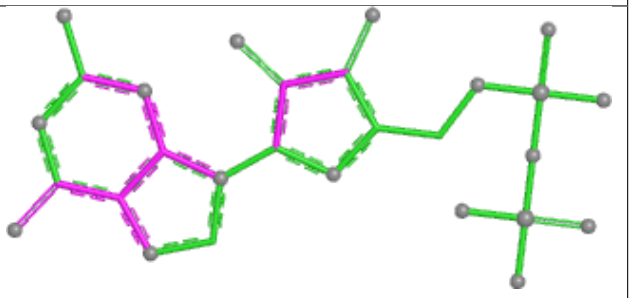


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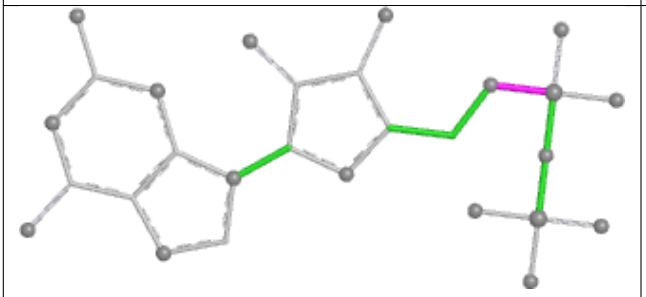
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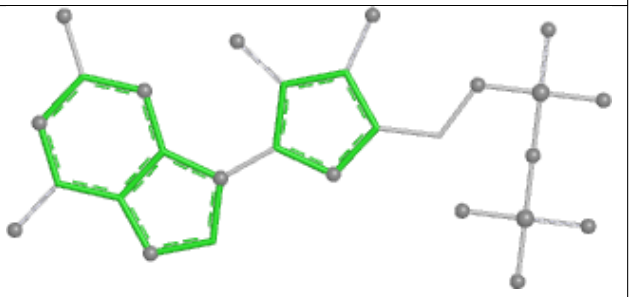
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Bond angles

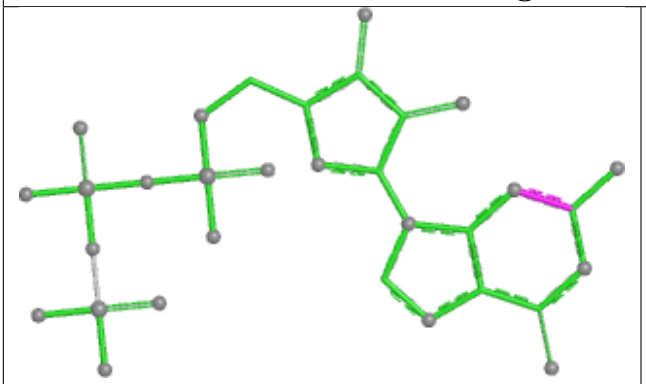


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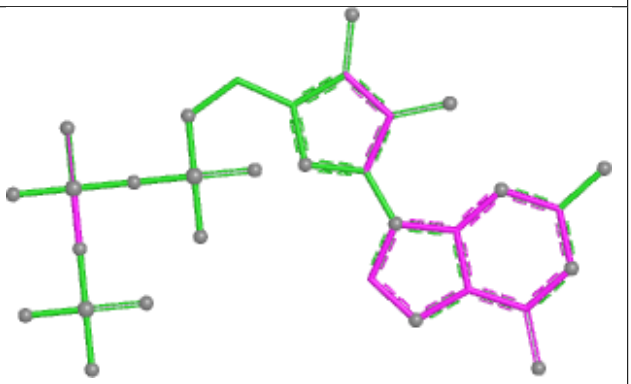


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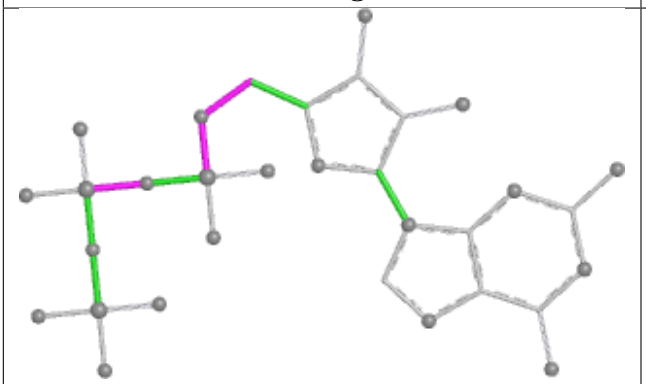
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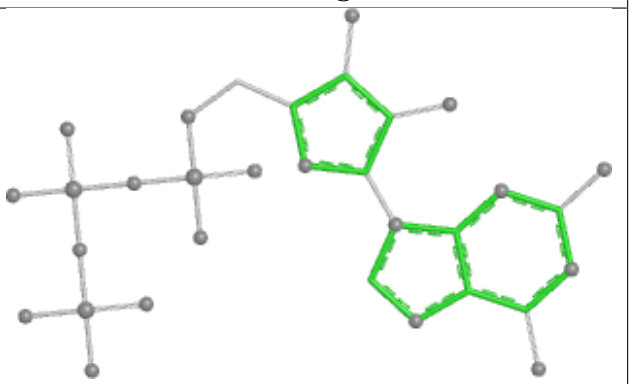
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Bond angles

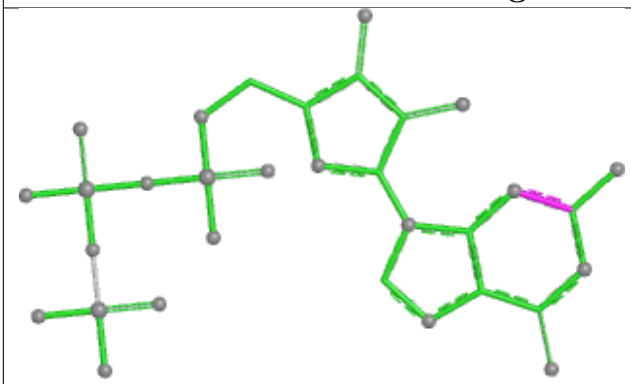


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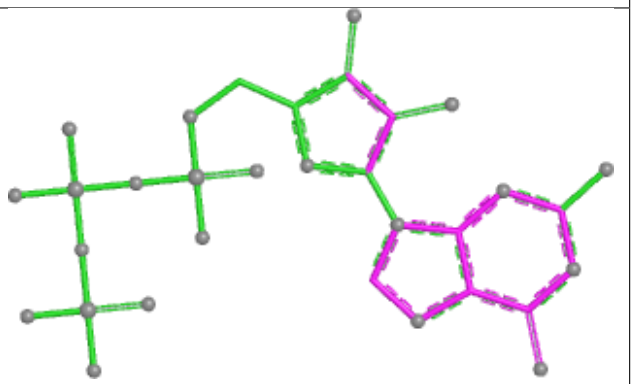


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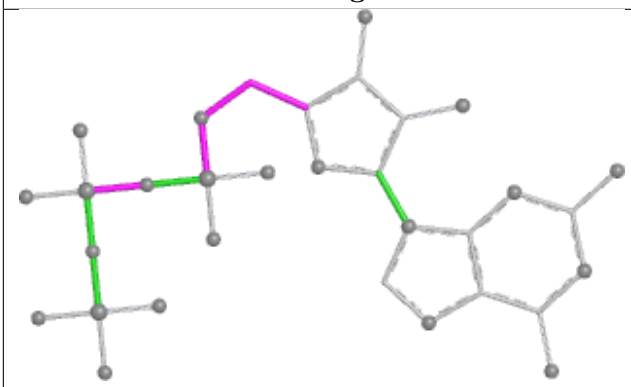
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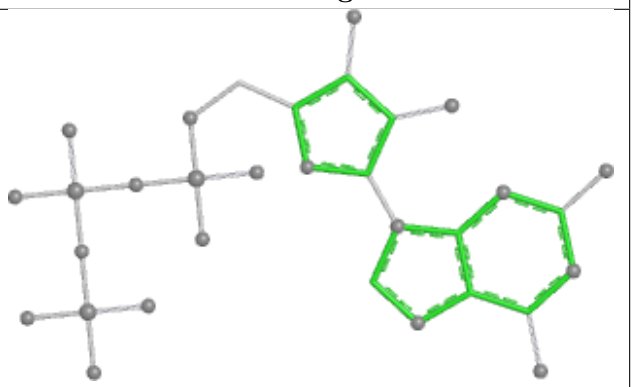
Bond lengths



Bond angles

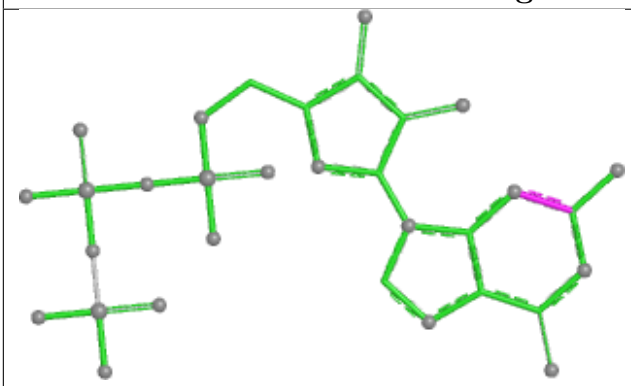


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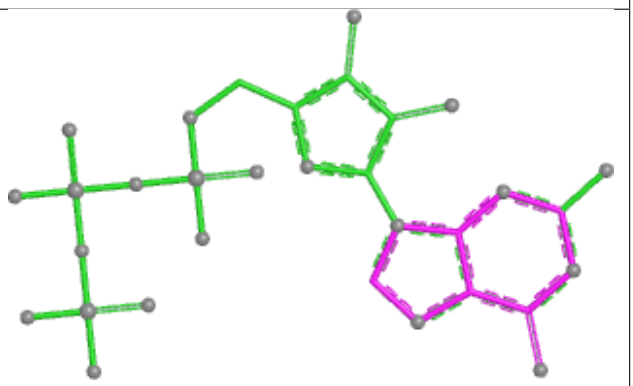


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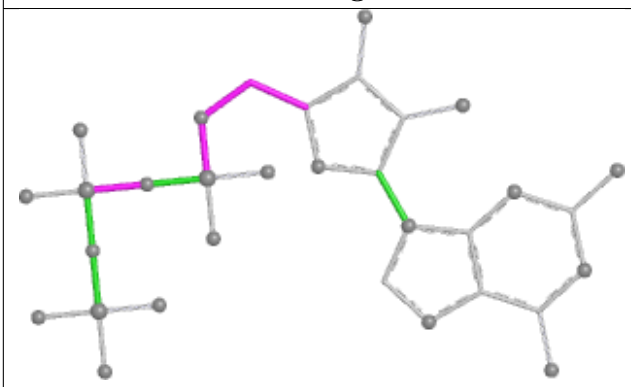
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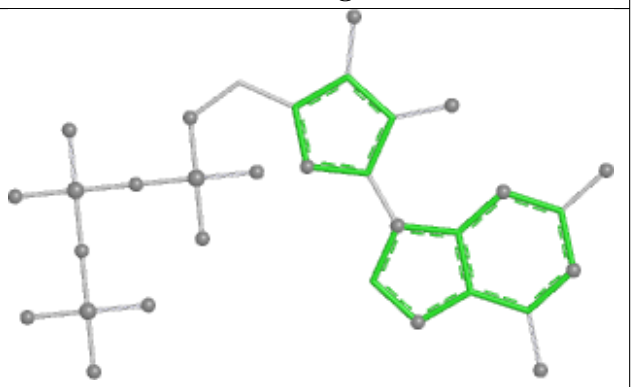
Bond lengths



Bond angles

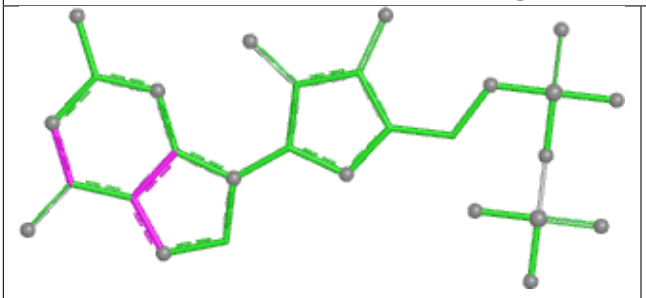


Torsions

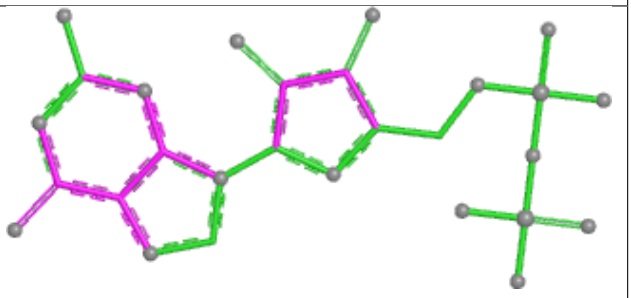


Rings

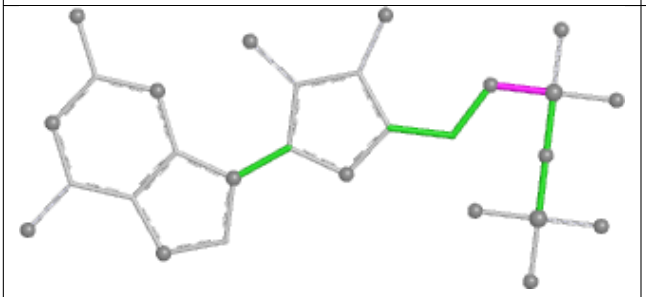
Ligand GDP AJ 501



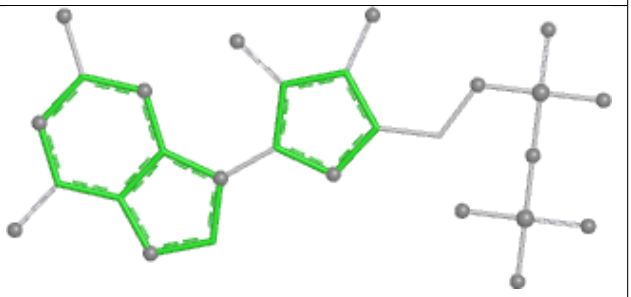
Bond lengths



Bond angles

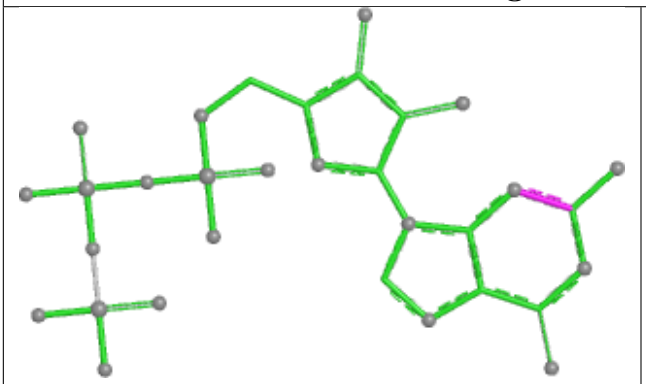


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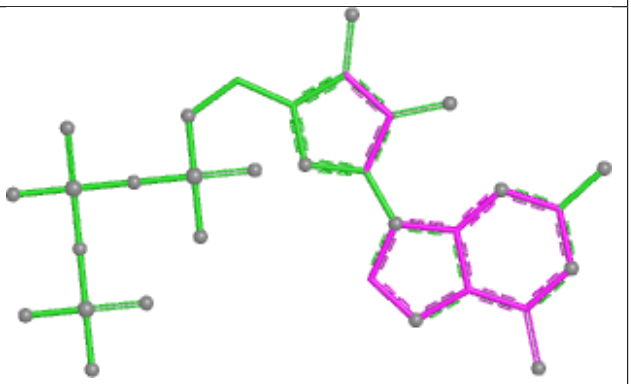


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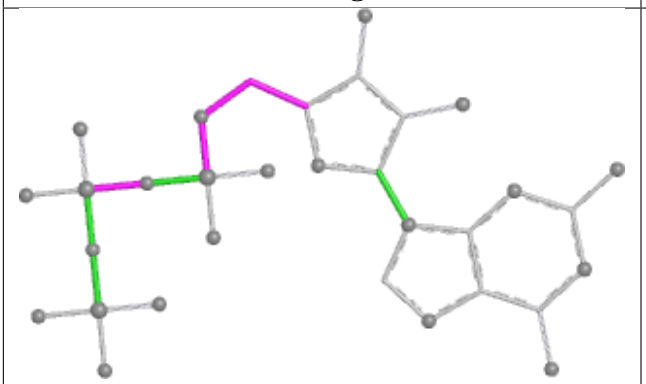
Ligand GTP BM 501



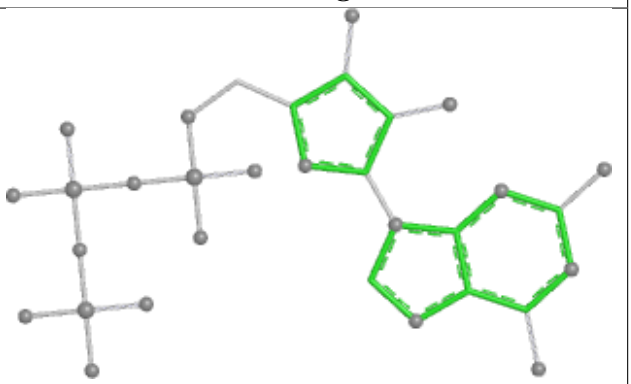
Bond lengths



Bond angles

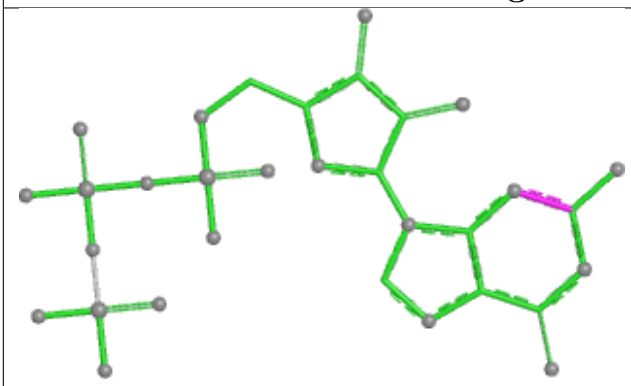


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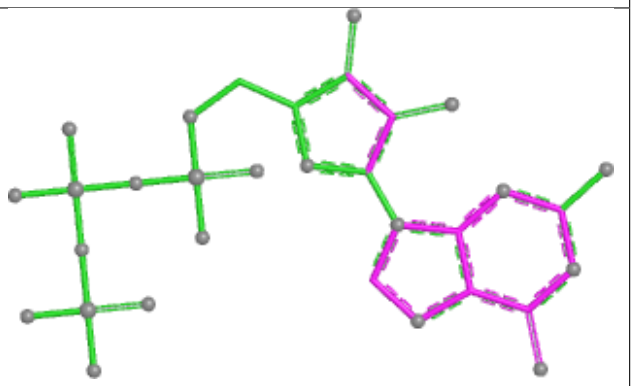


Rings

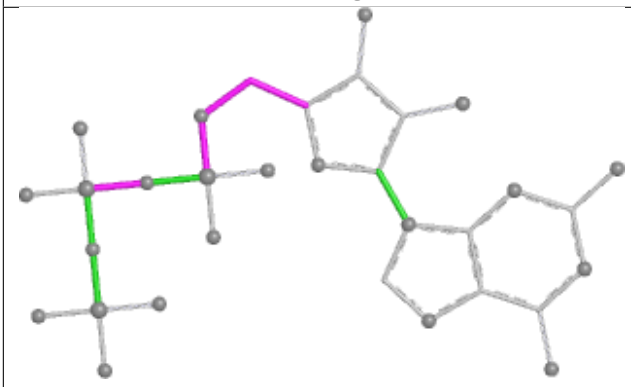
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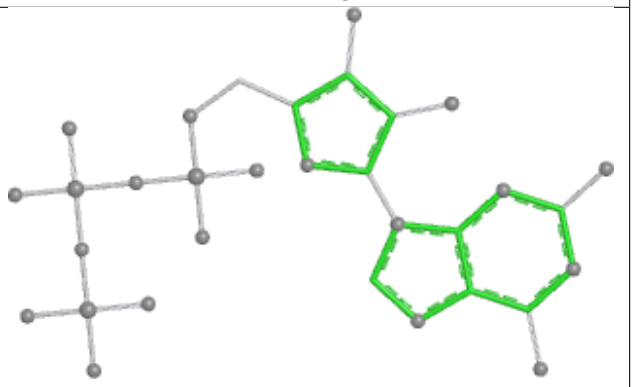
Bond lengths



Bond angles

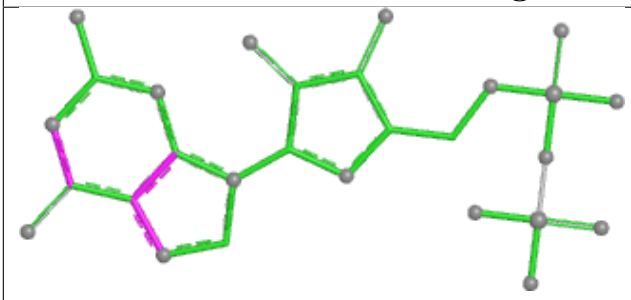


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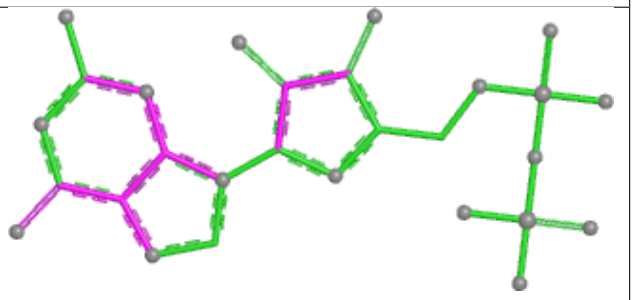


Rings

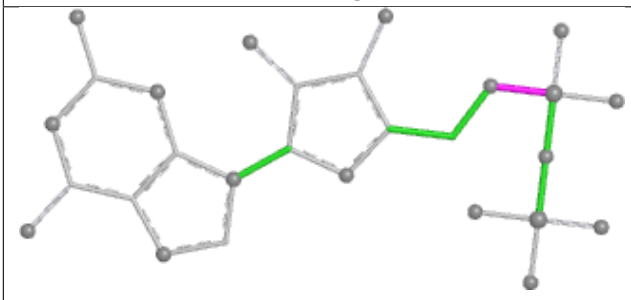
Ligand GDP GJ 501



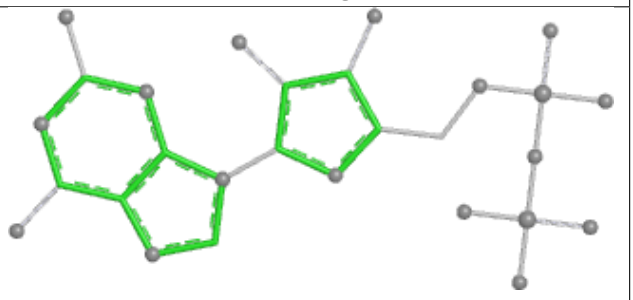
Bond lengths



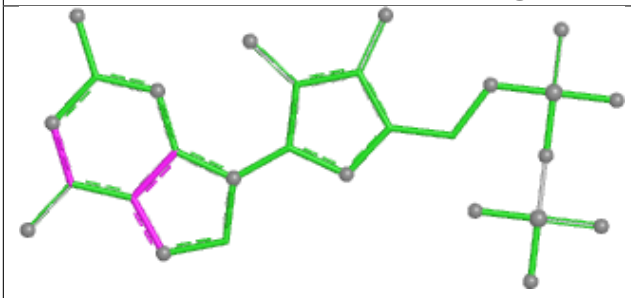
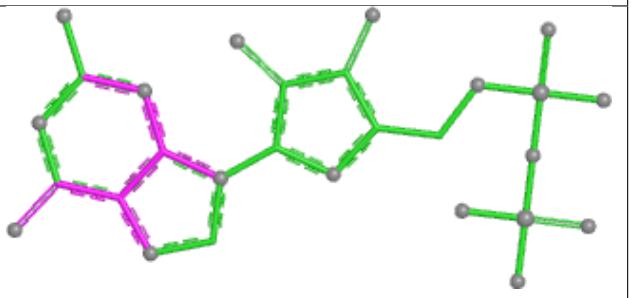
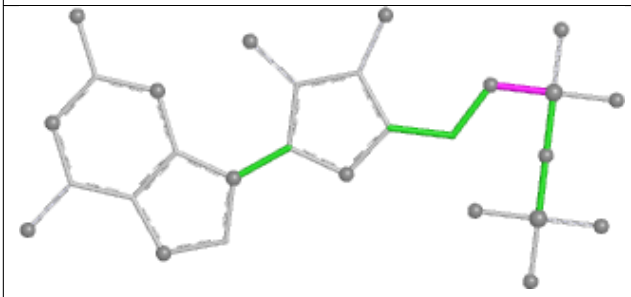
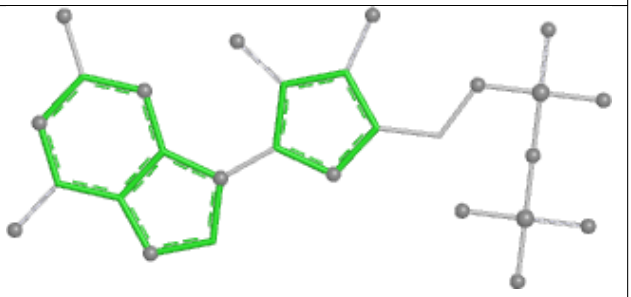
Bond angles

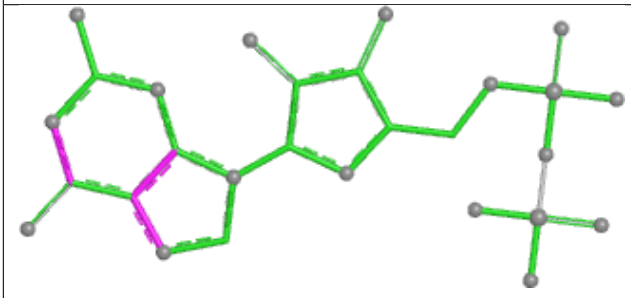
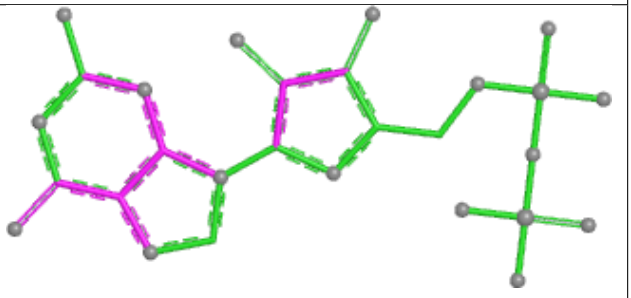
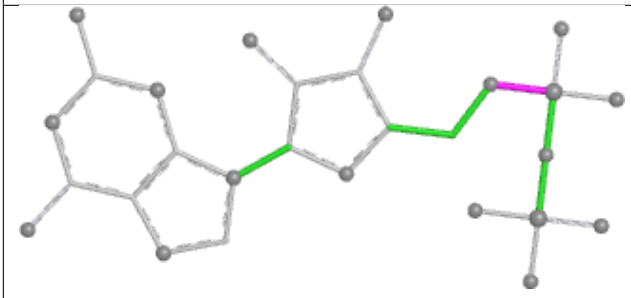
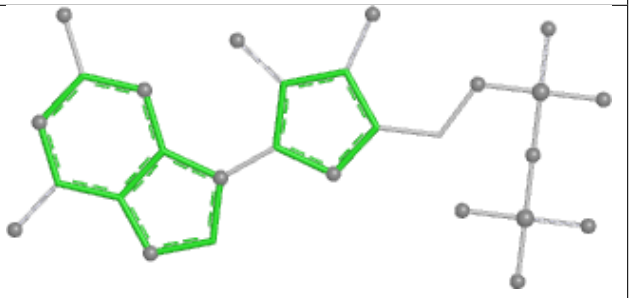


Torsions

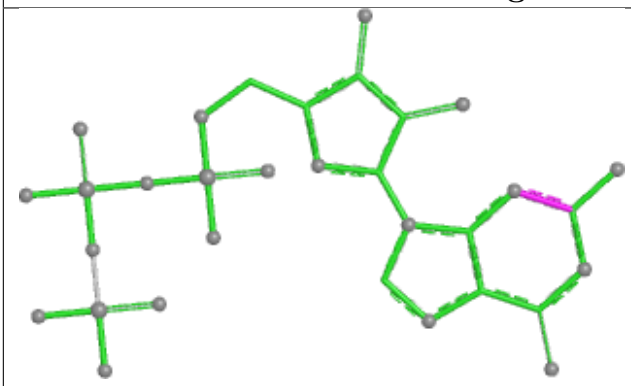


Rings

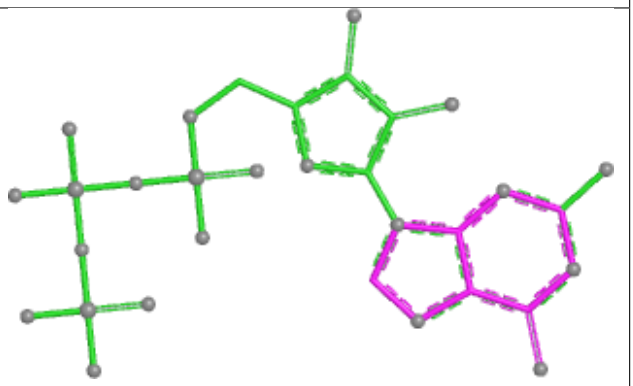
Ligand GDP JH 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GDP TF 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

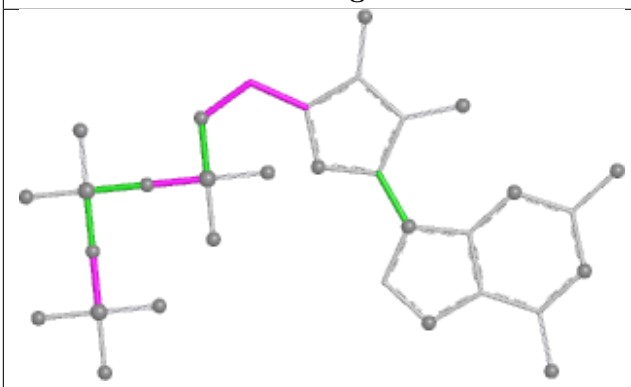
Ligand GTP NG 501



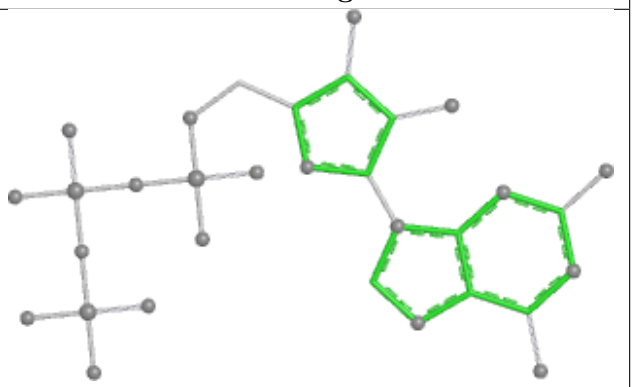
Bond lengths



Bond angles

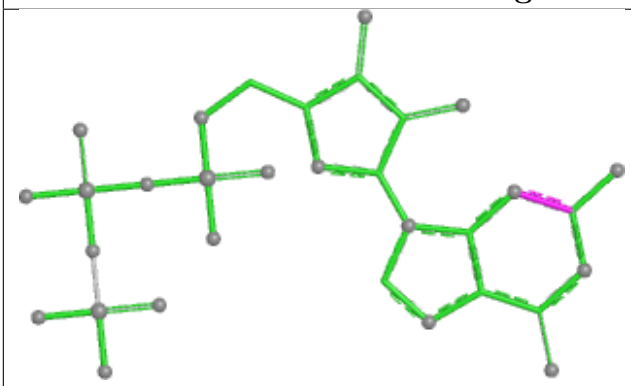


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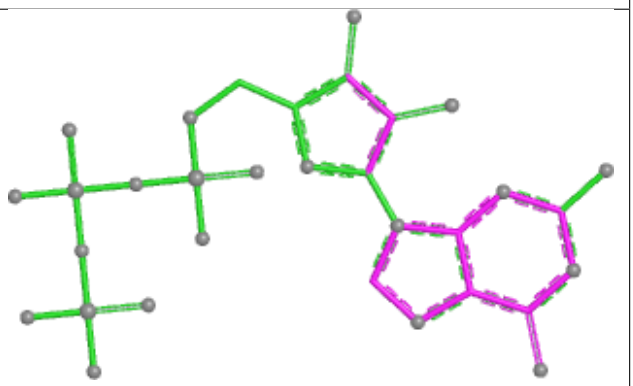


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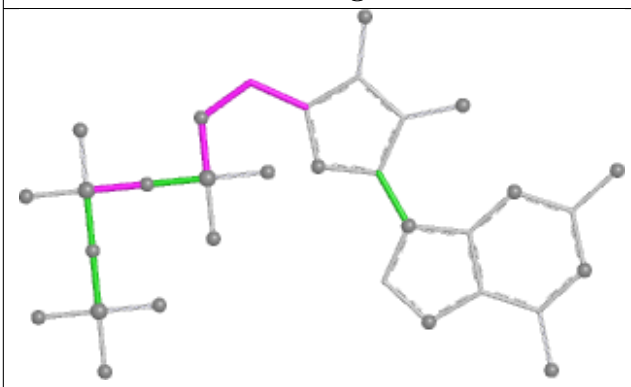
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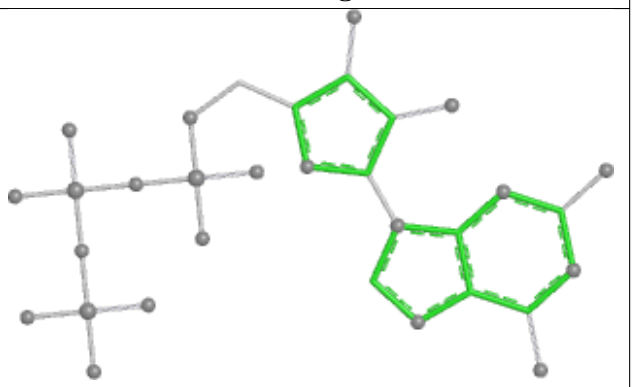
Bond lengths



Bond angles

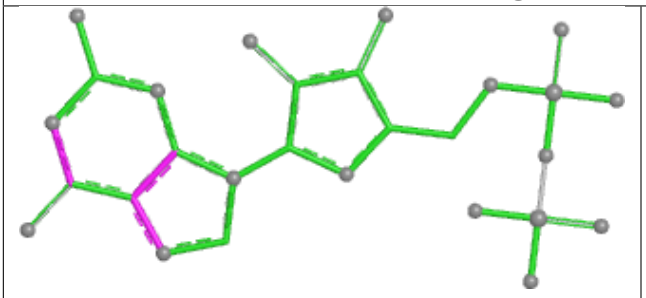


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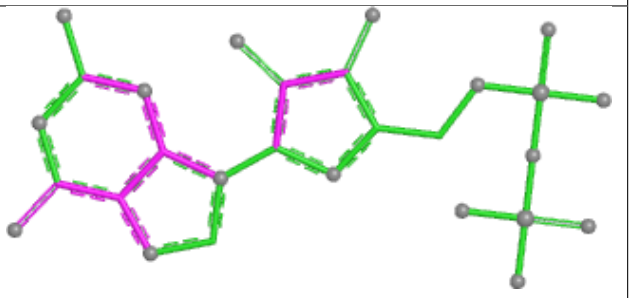


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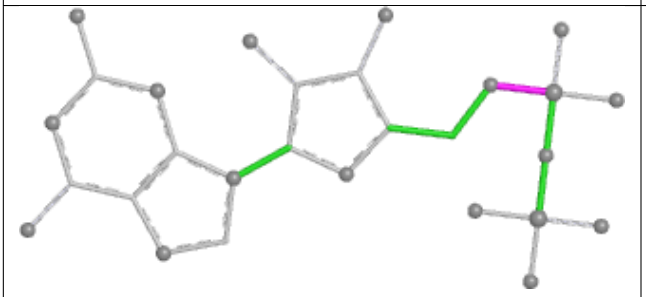
Ligand GDP AF 501



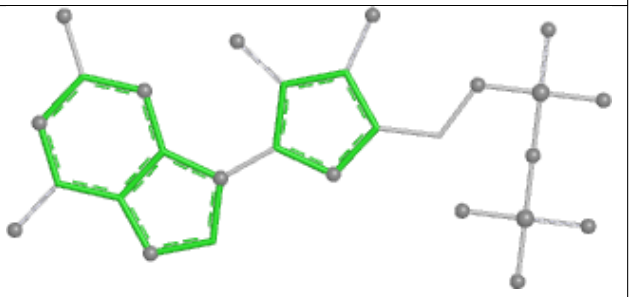
Bond lengths



Bond angles

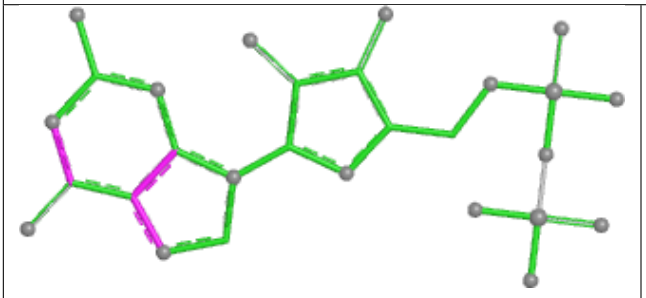


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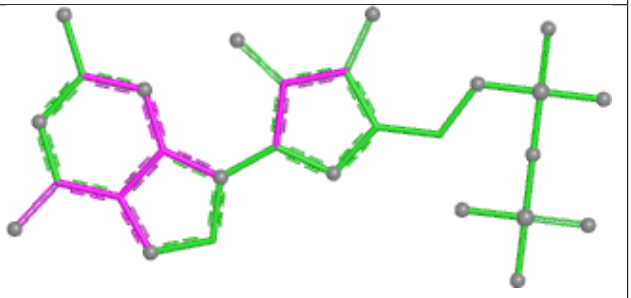


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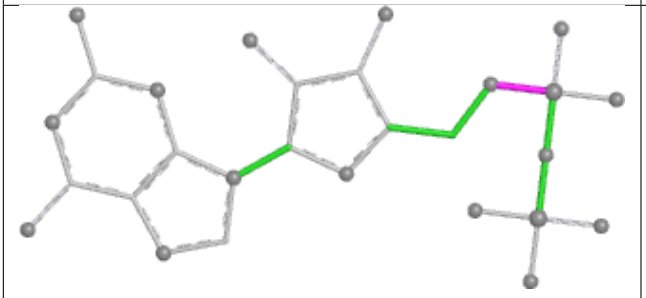
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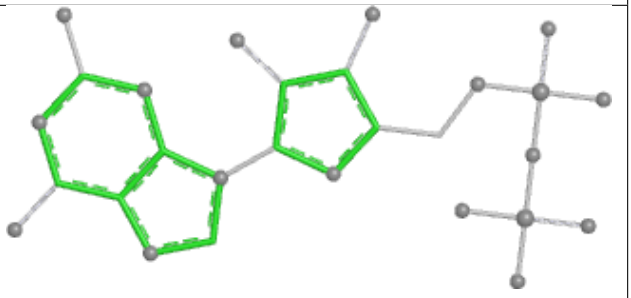
Bond lengths



Bond angles

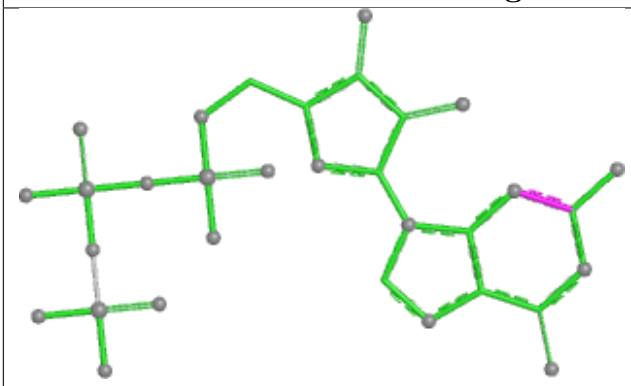


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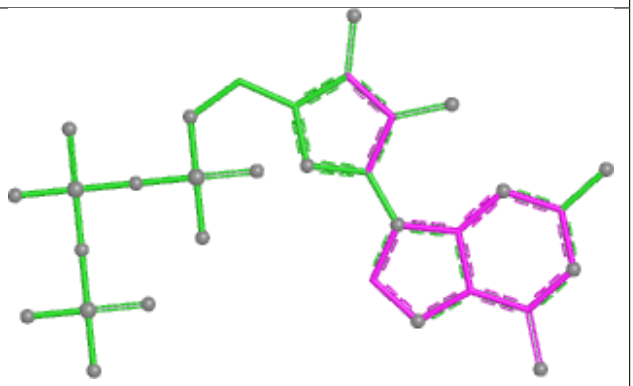


Rings

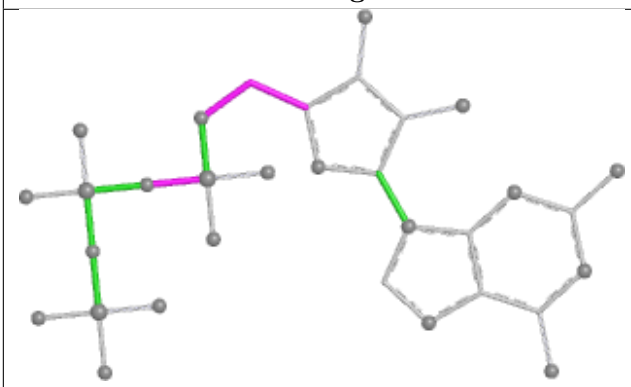
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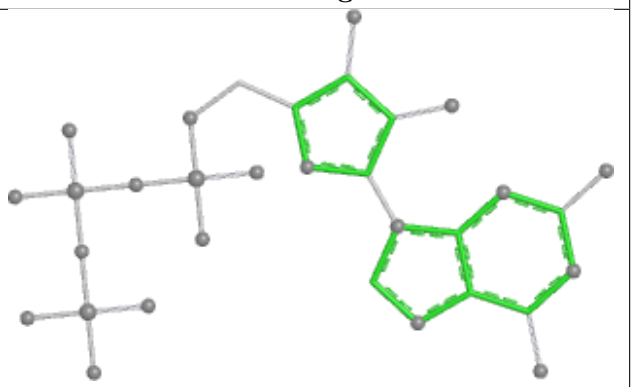
Bond lengths



Bond angles

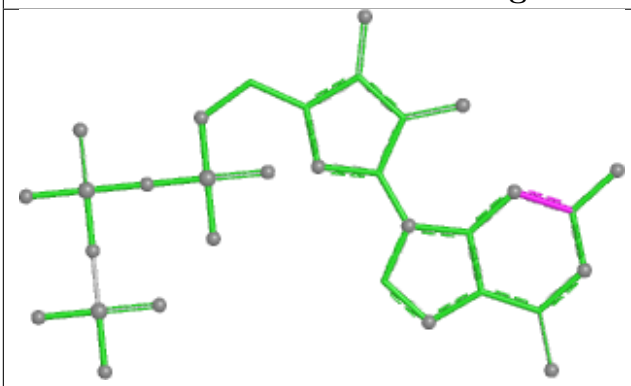


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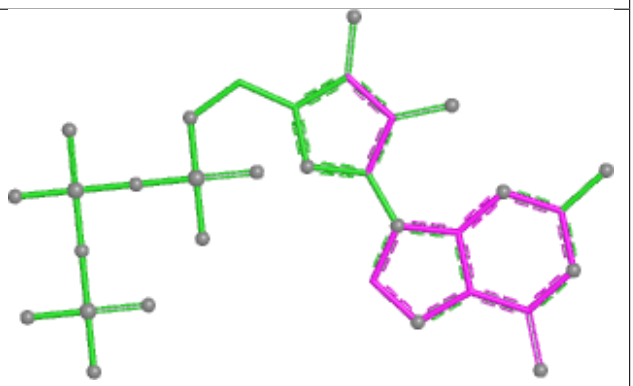


Rings

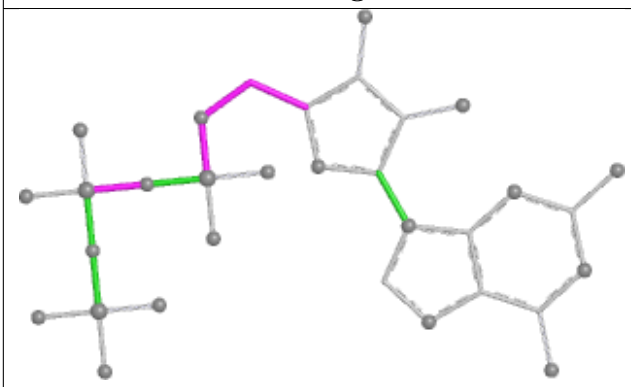
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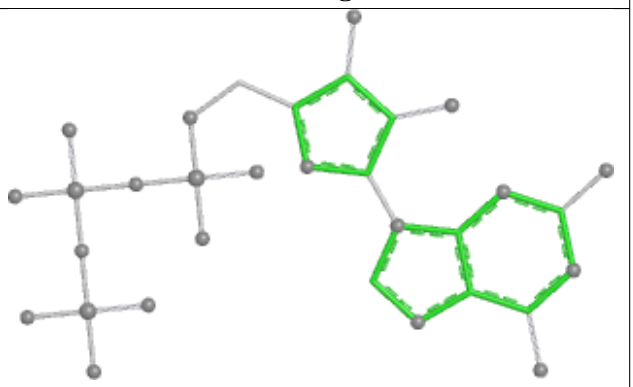
Bond lengths



Bond angles

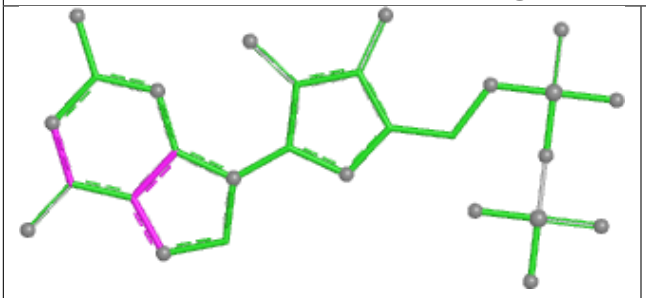


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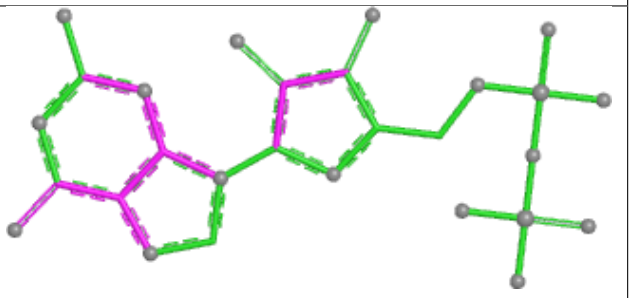


Rings

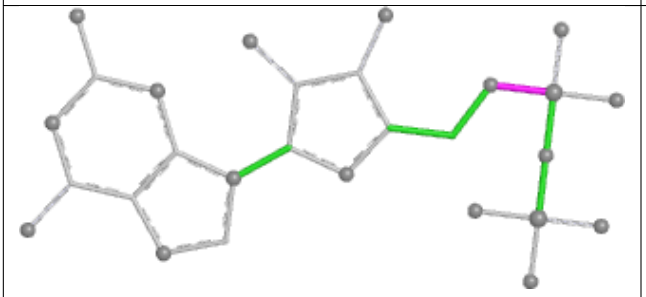
Ligand GDP NJ 501



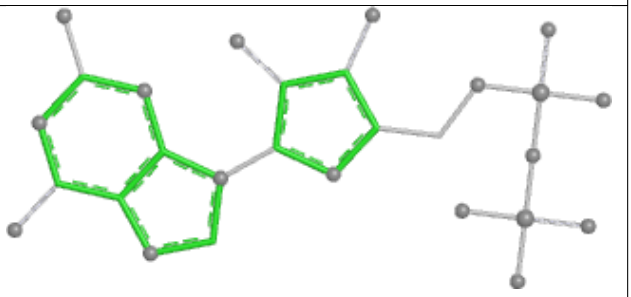
Bond lengths



Bond angles

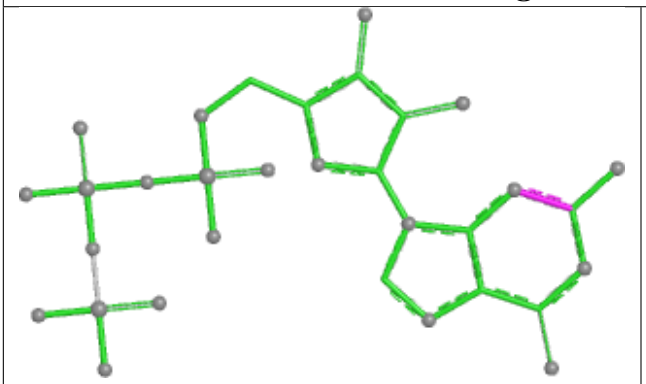


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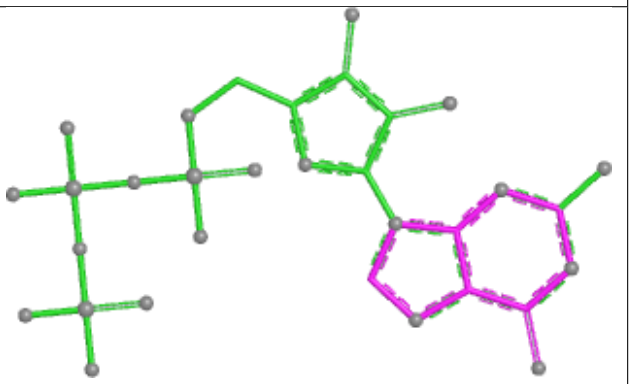


Rings

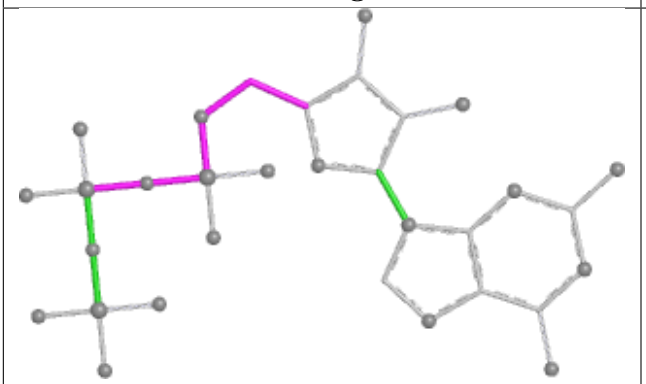
Ligand GTP HI 501



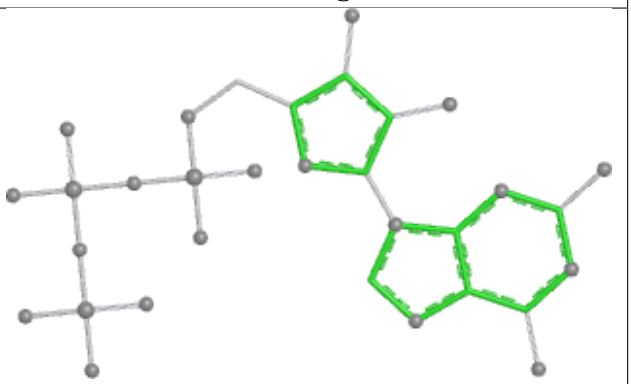
Bond lengths



Bond angles

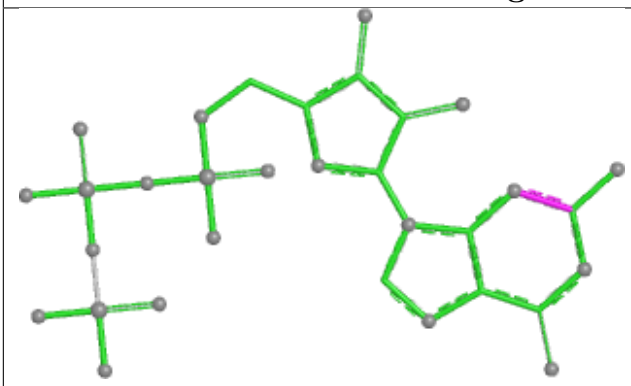


Torsions

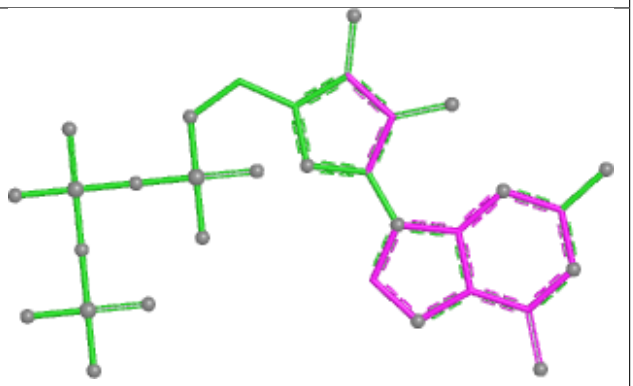


Rings

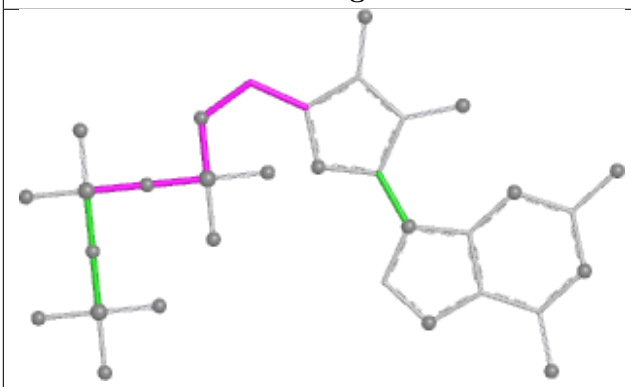
Ligand GTP HG 501



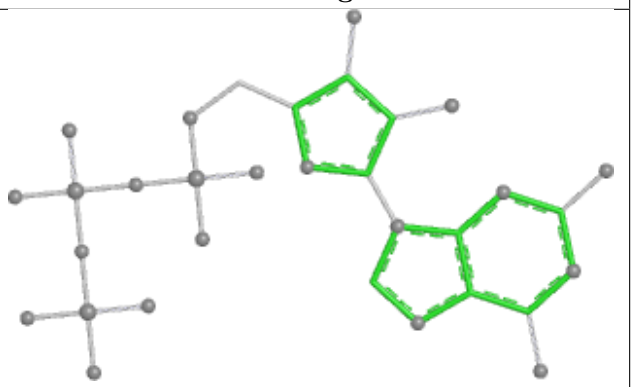
Bond lengths



Bond angles

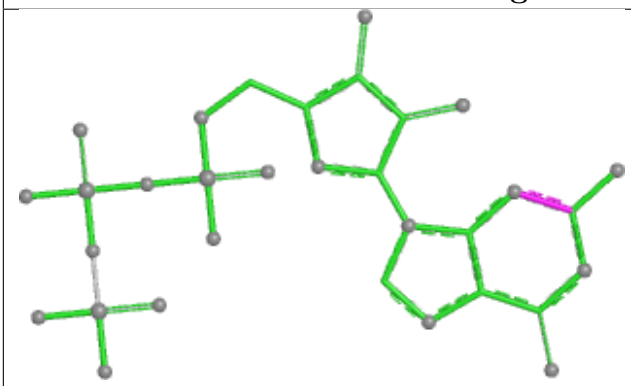


Torsions

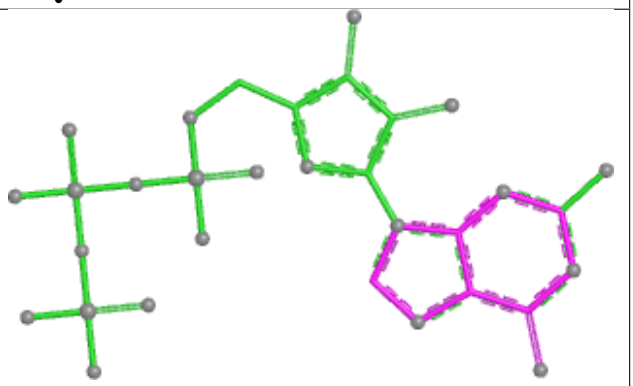


Rings

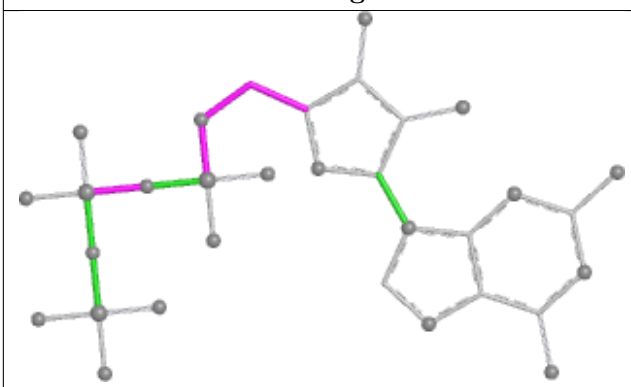
Ligand GTP QE 501



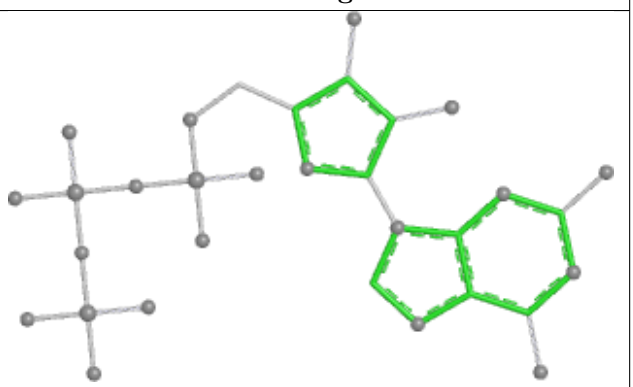
Bond lengths



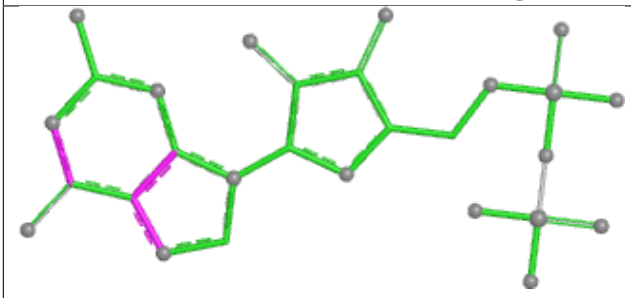
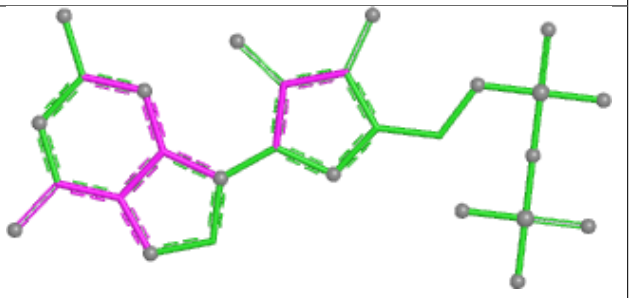
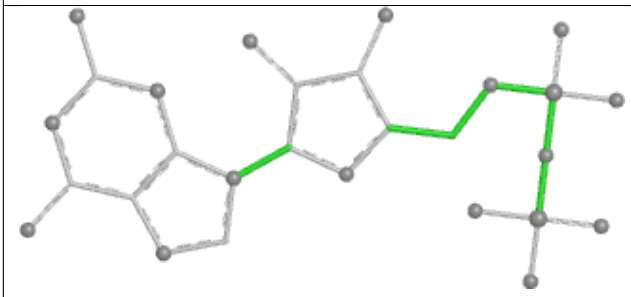
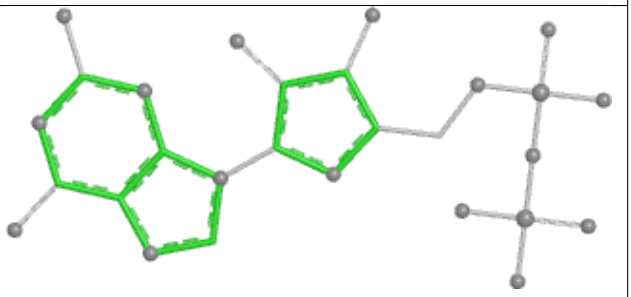
Bond angles

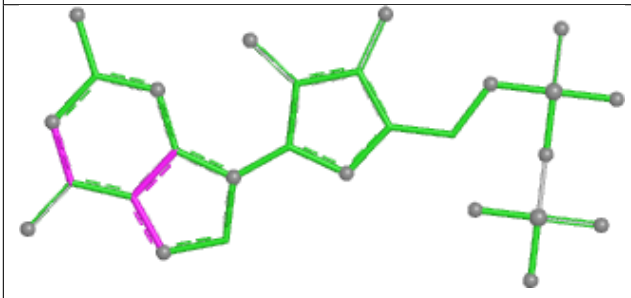
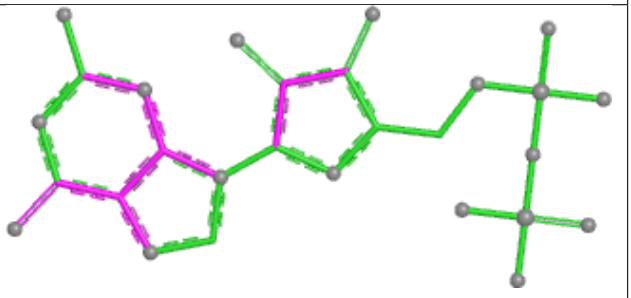
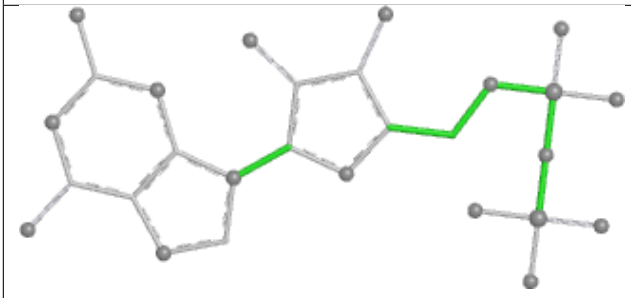
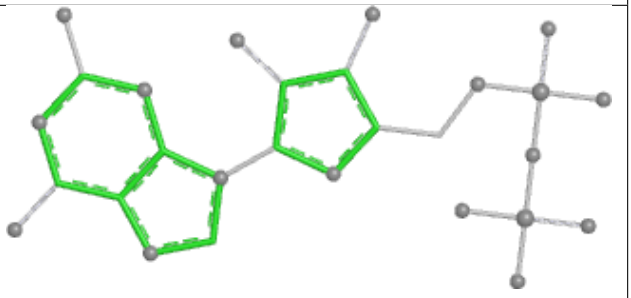


Torsions

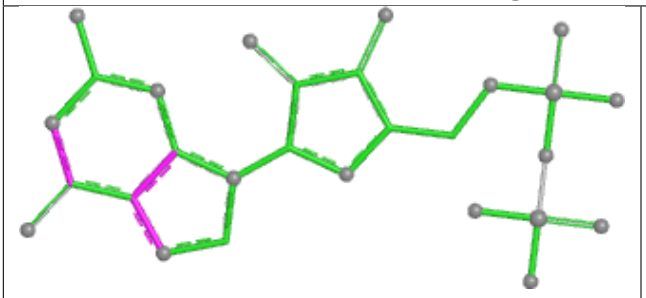


Rings

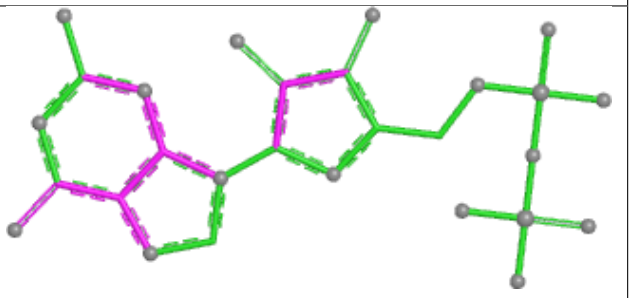
Ligand GDP JN 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GDP SN 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

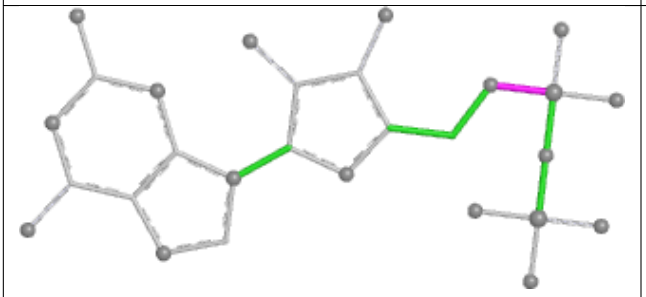
Ligand GDP ND 502



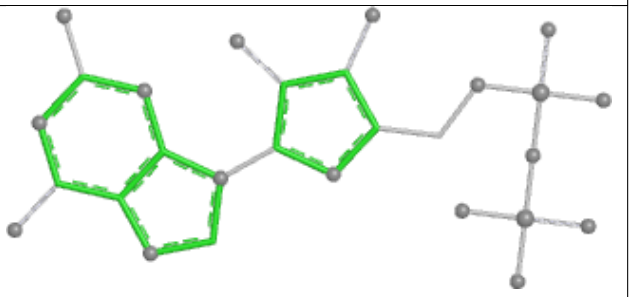
Bond lengths



Bond angles

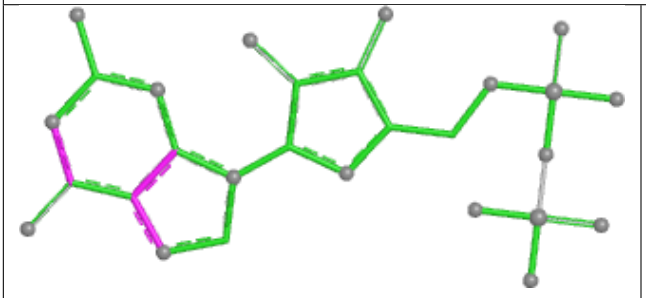


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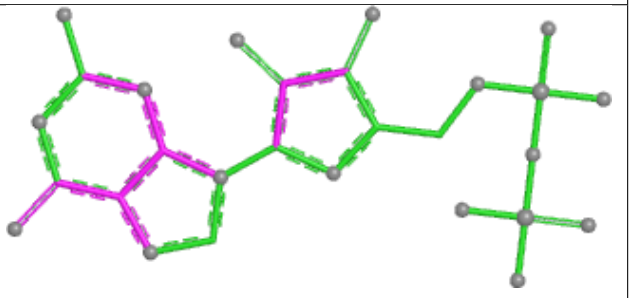


Rings

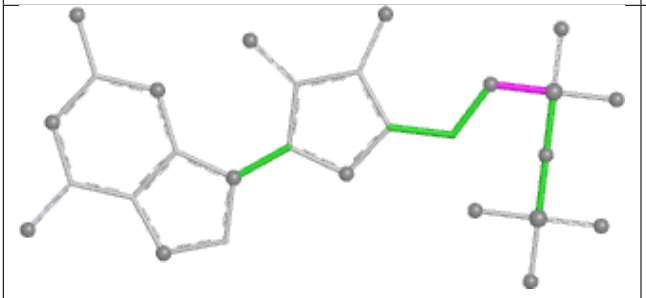
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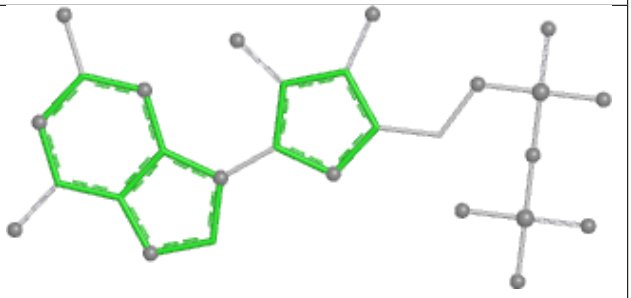
Bond lengths



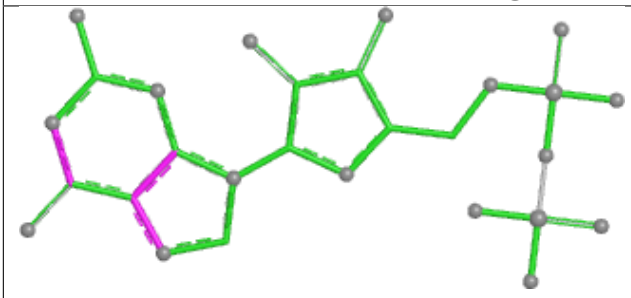
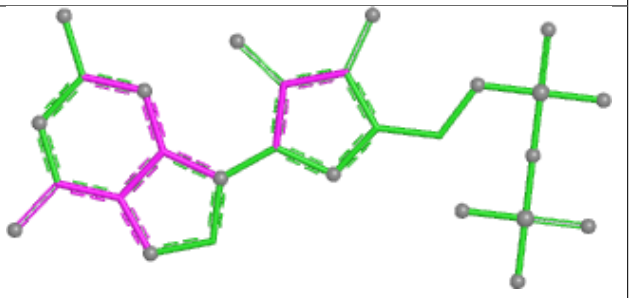
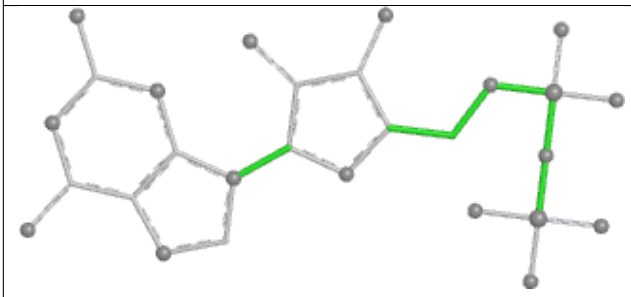
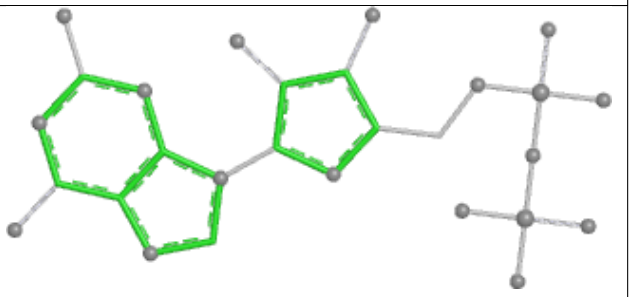
Bond angles

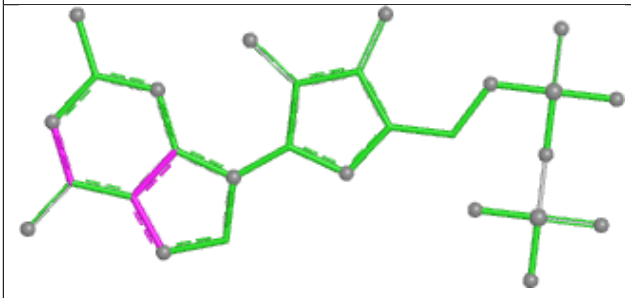
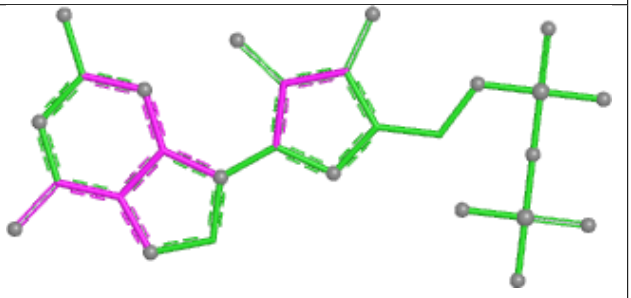
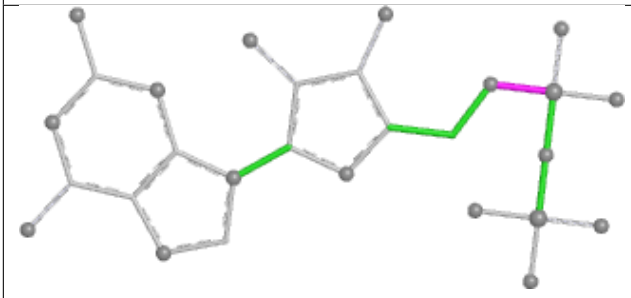
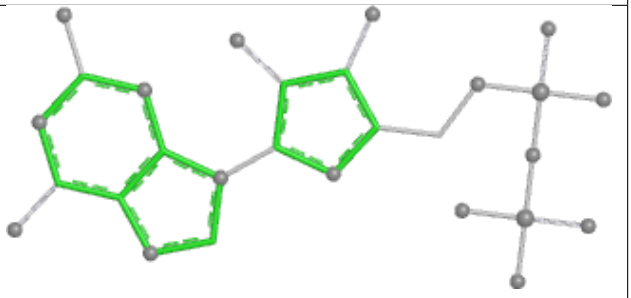


Torsions

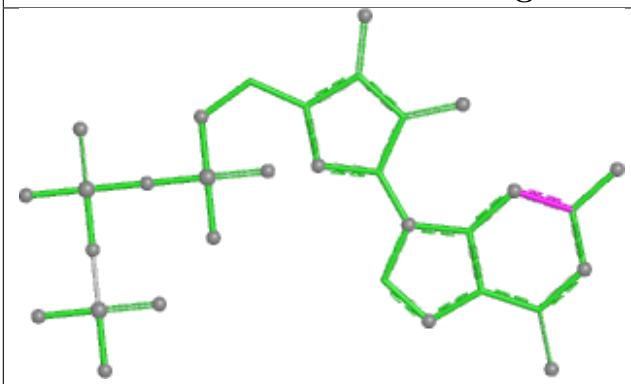


Rings

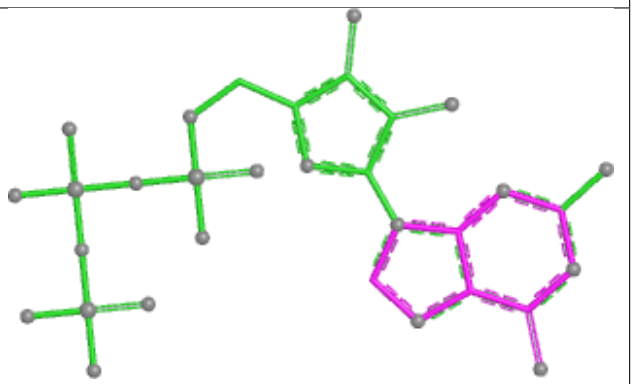
Ligand GDP HN 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GDP JL 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

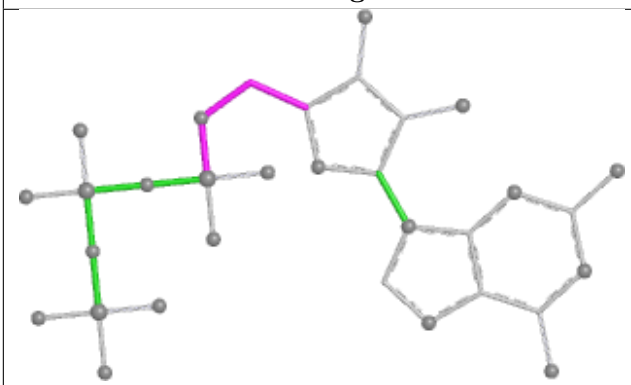
Ligand GTP OI 501



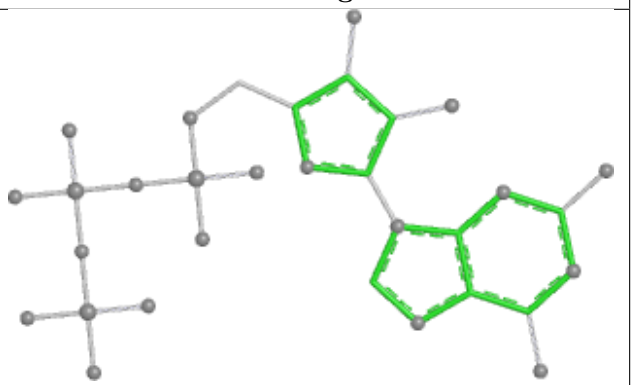
Bond lengths



Bond angles

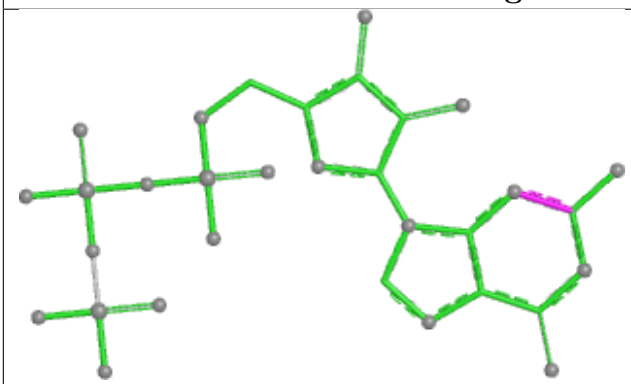


Torsions

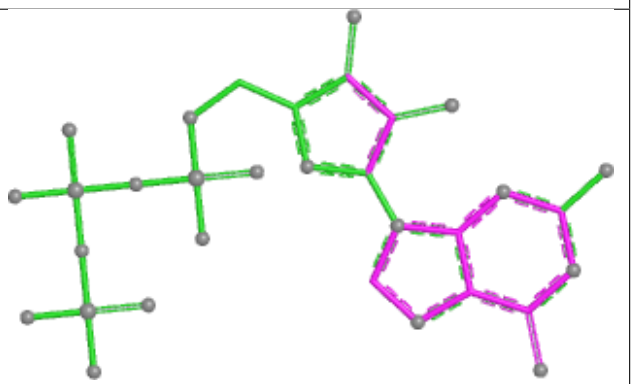


Rings

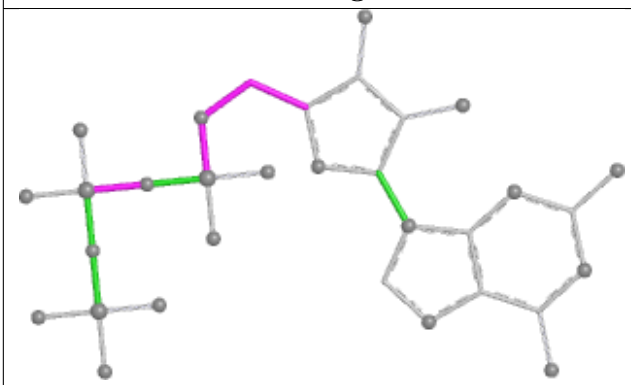
Ligand GTP MG 501



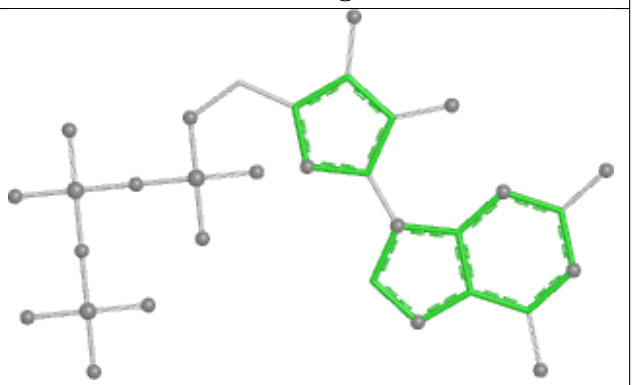
Bond lengths



Bond angles

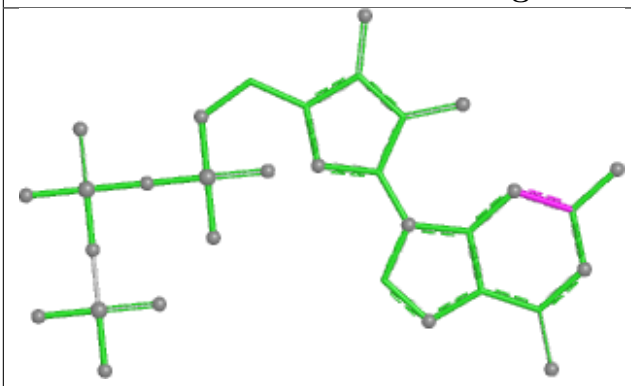


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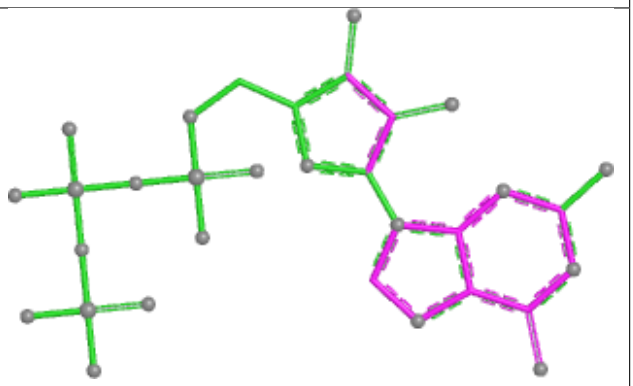


Rings

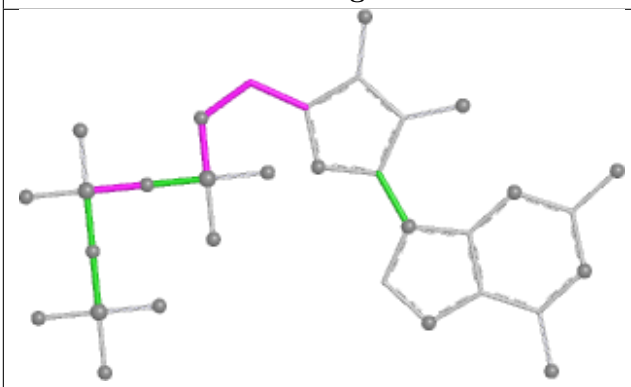
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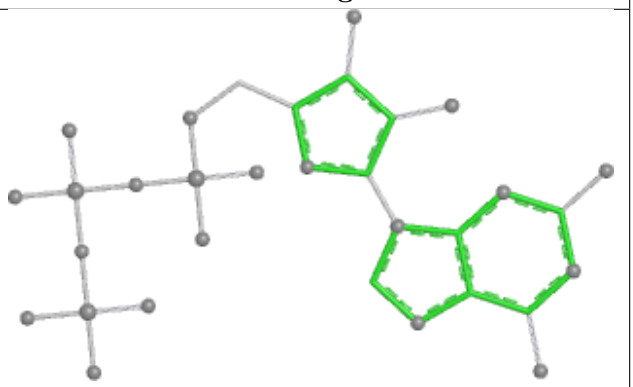
Bond lengths



Bond angles

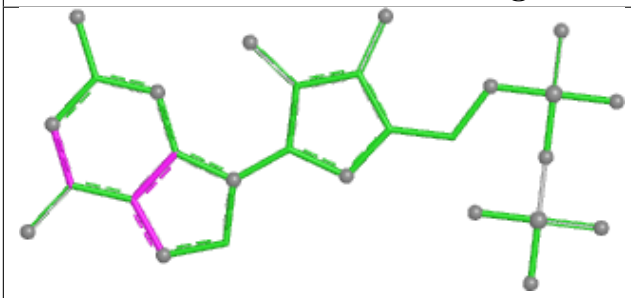


Torsions

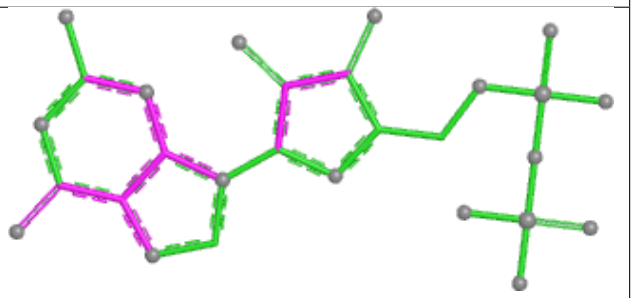


Rings

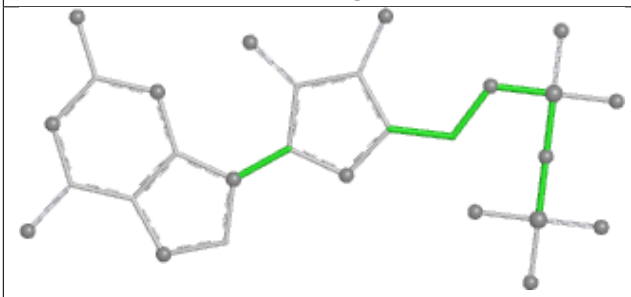
Ligand GDP VL 501



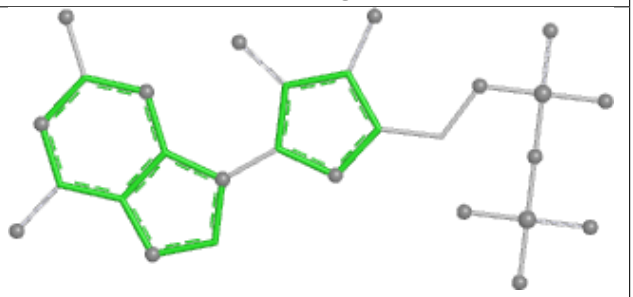
Bond lengths



Bond angles

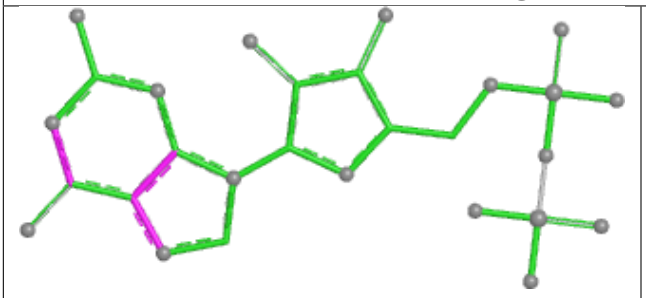


Torsions

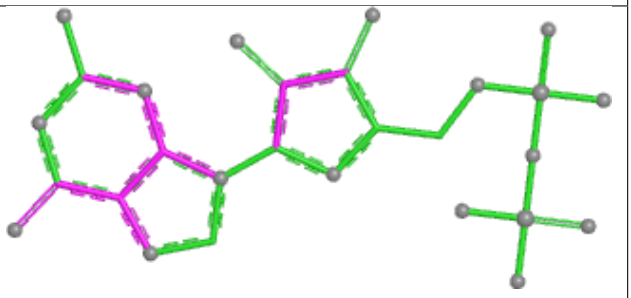


Rings

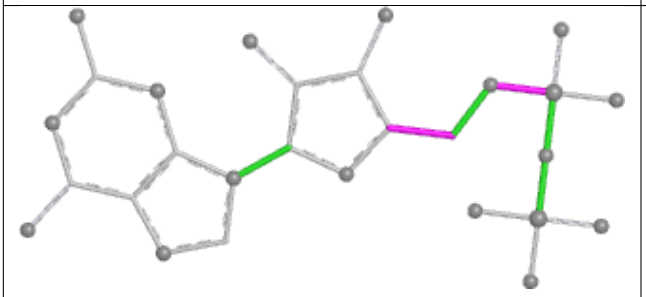
Ligand GDP LL 501



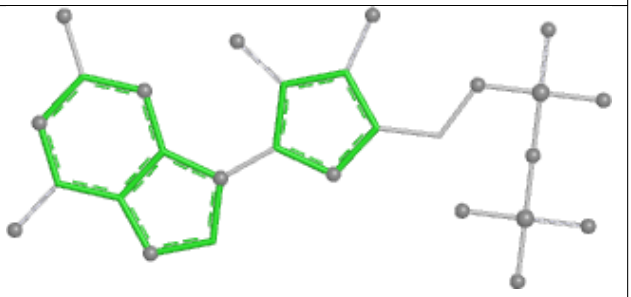
Bond lengths



Bond angles

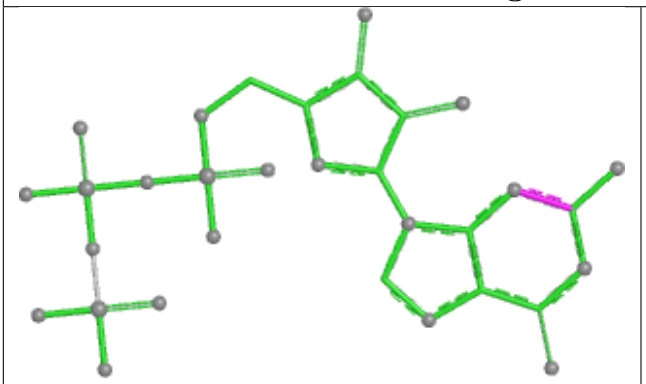


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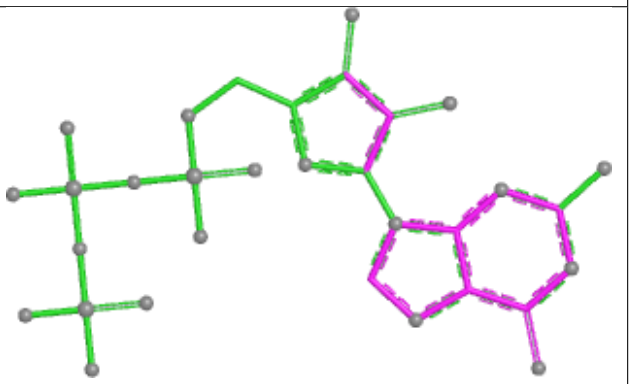


Rings

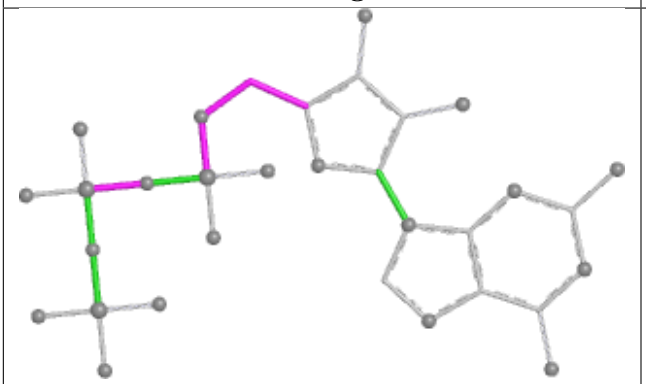
Ligand GTP TM 501



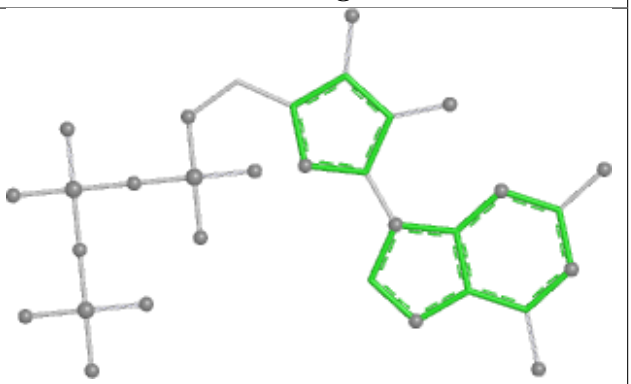
Bond lengths



Bond angles

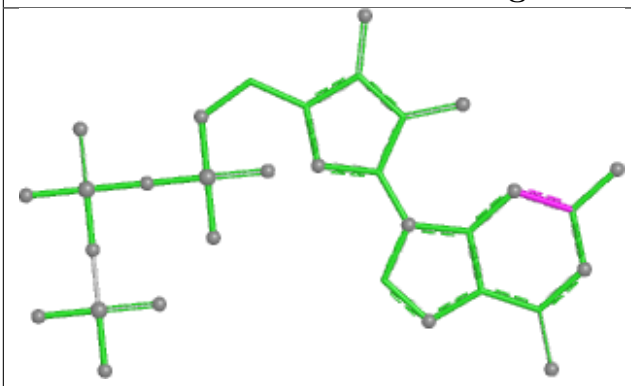


Torsions

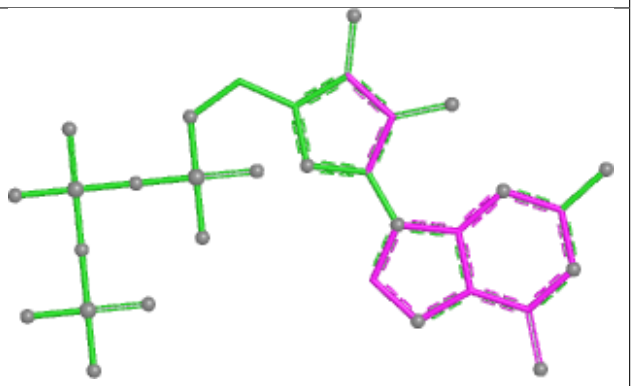


Rings

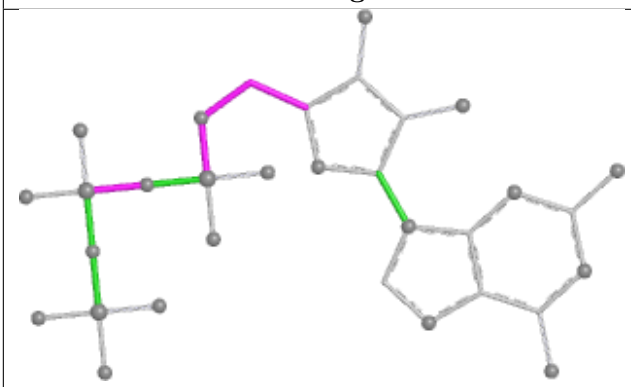
Ligand GTP SM 501



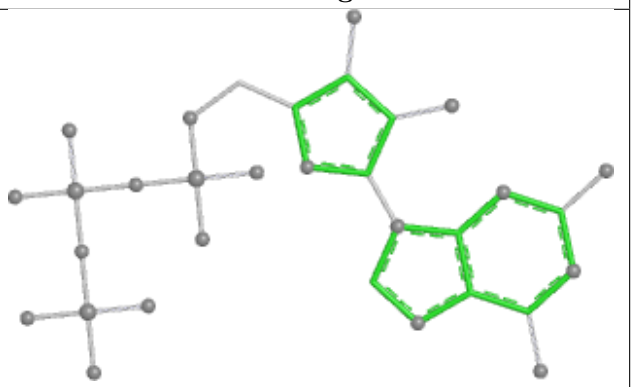
Bond lengths



Bond angles

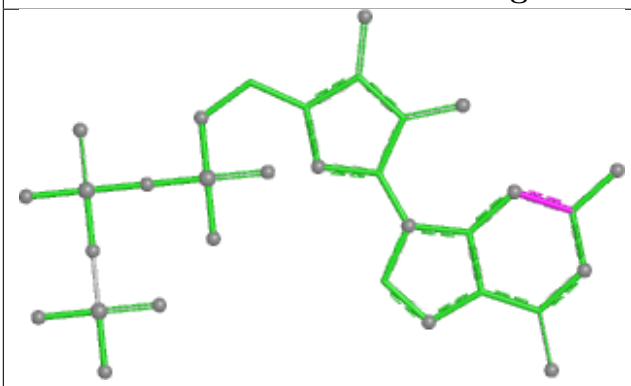


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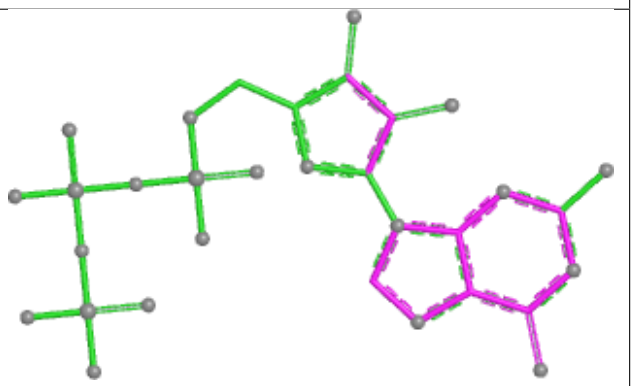


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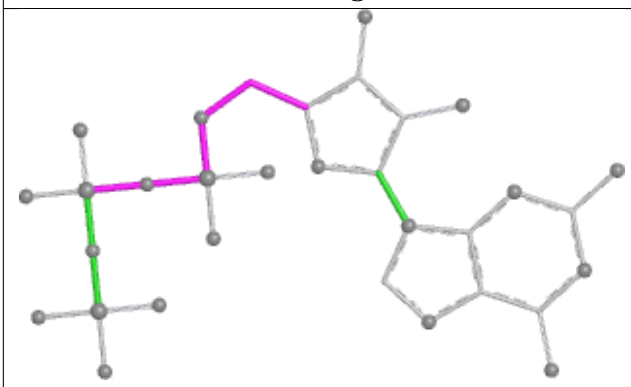
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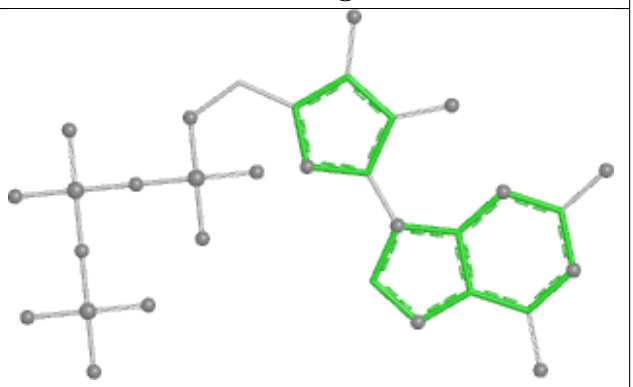
Bond lengths



Bond angles

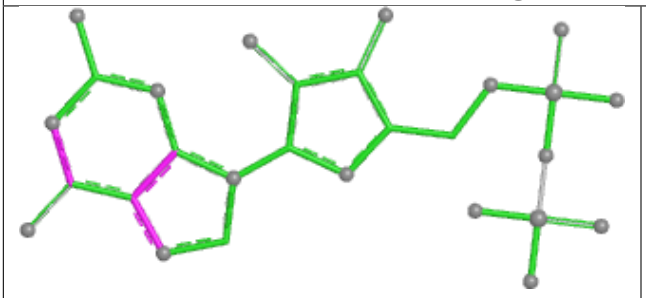


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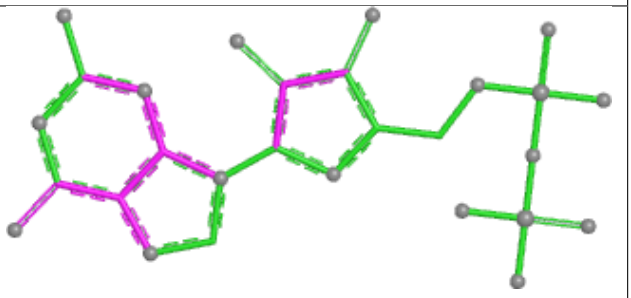


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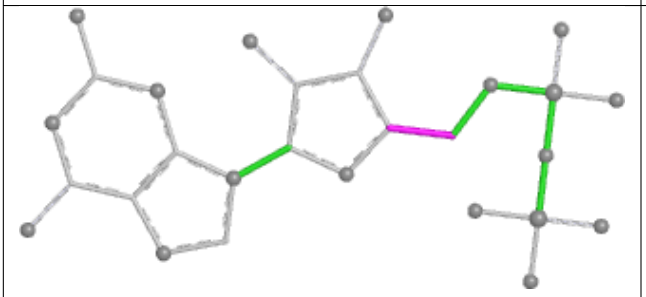
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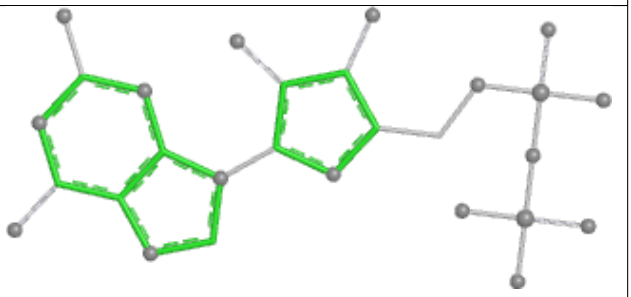
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Bond angles

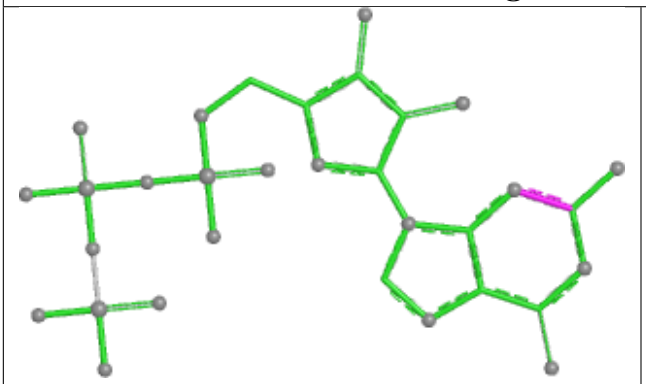


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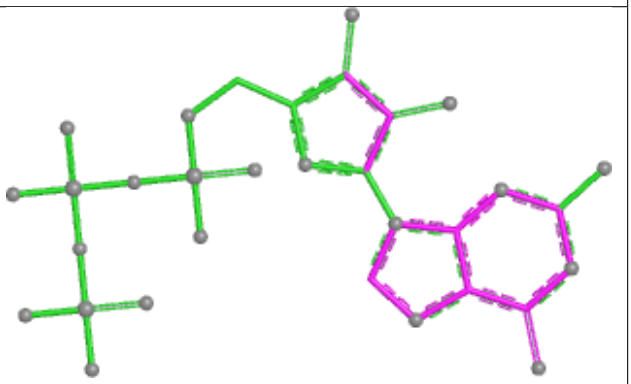


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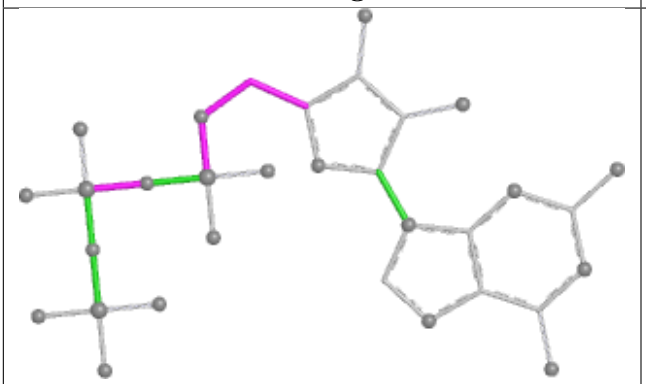
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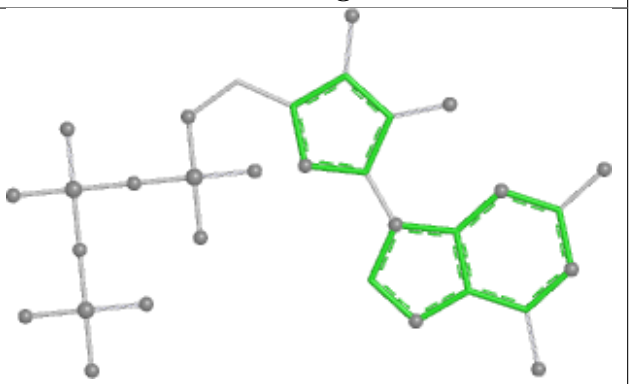
Bond lengths



Bond angles

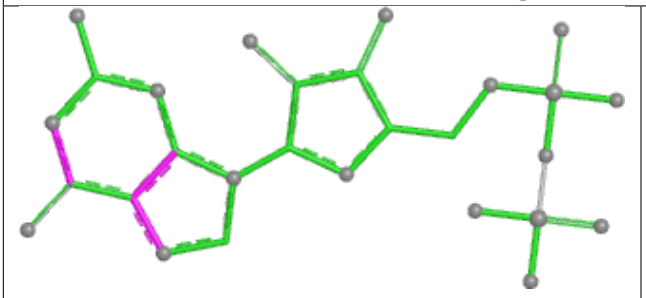


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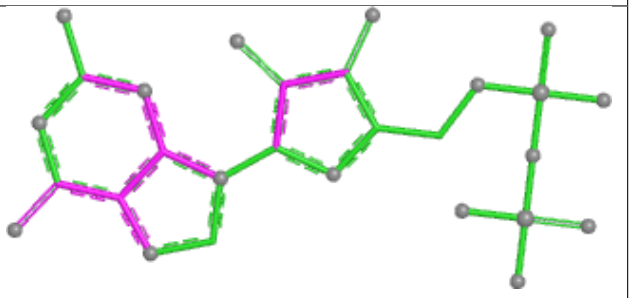


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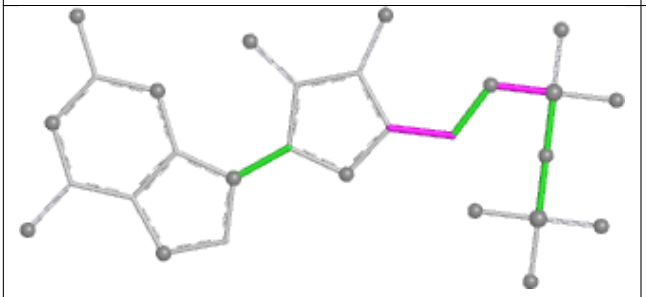
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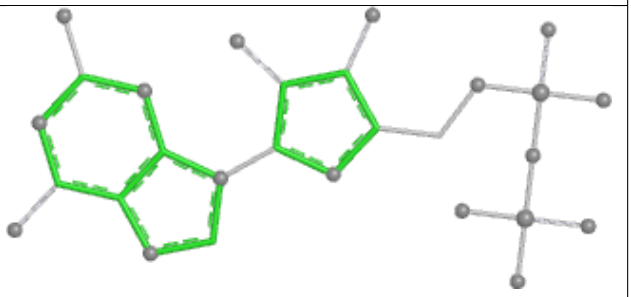
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Bond angles

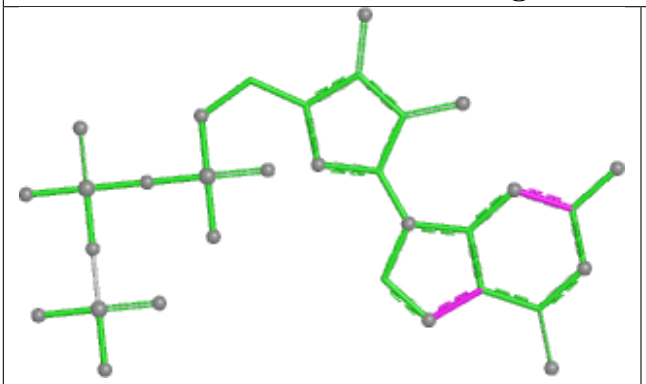


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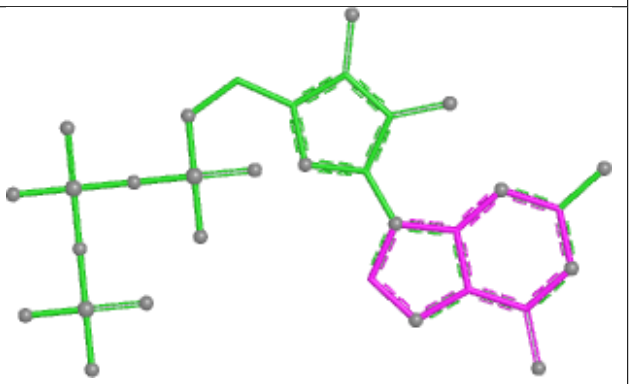


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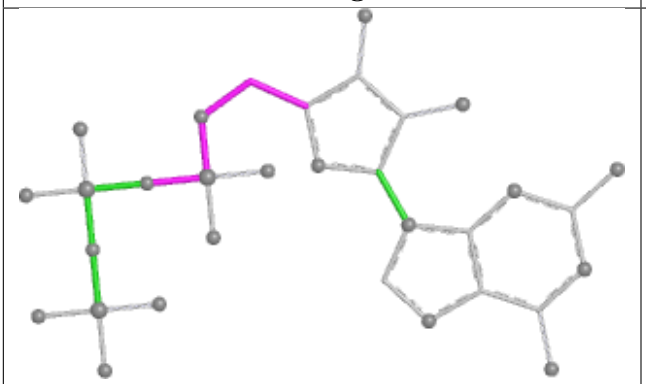
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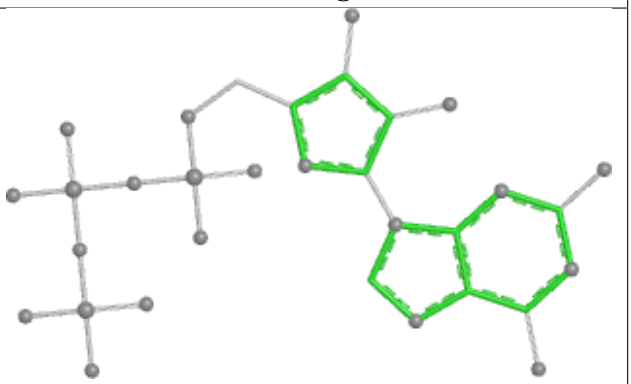
Bond lengths



Bond angles

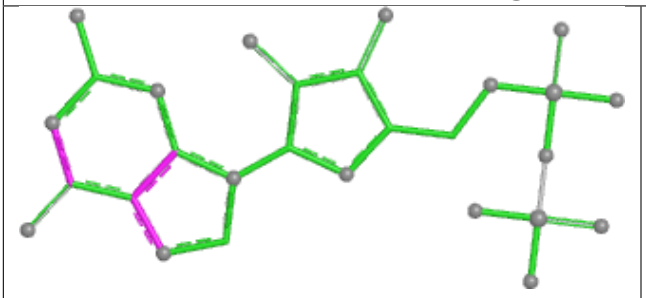


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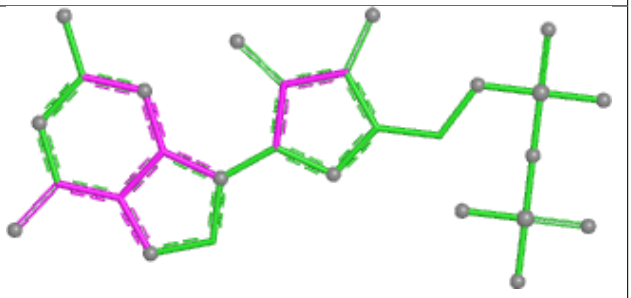


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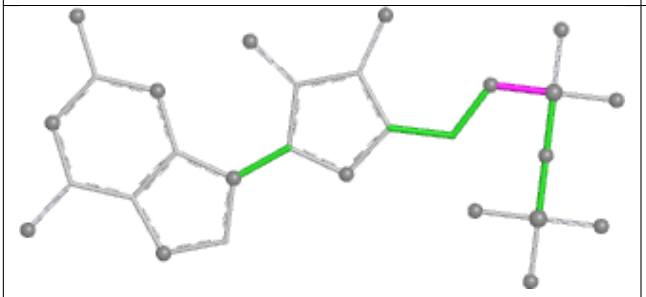
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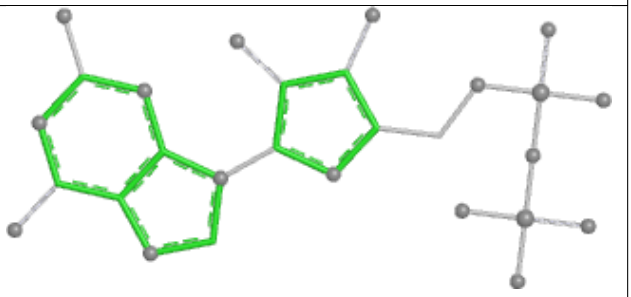
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Bond angles

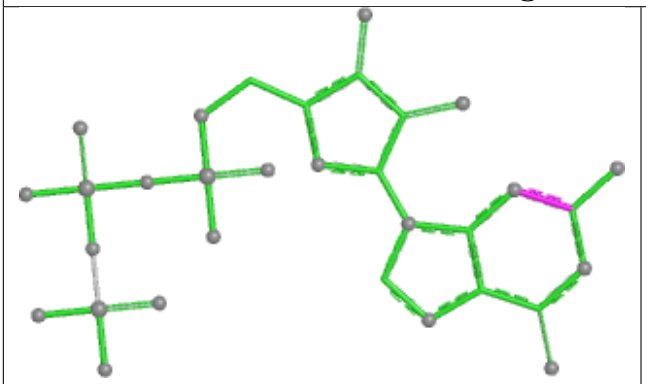


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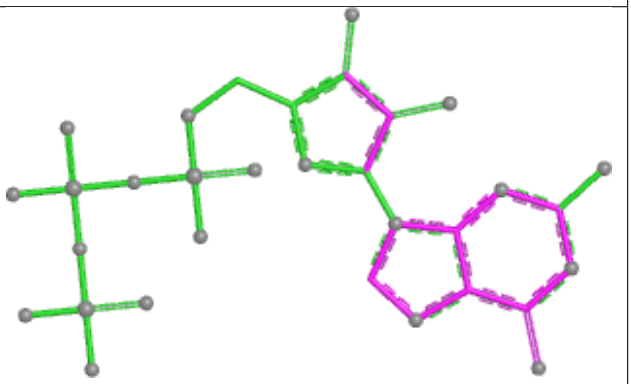


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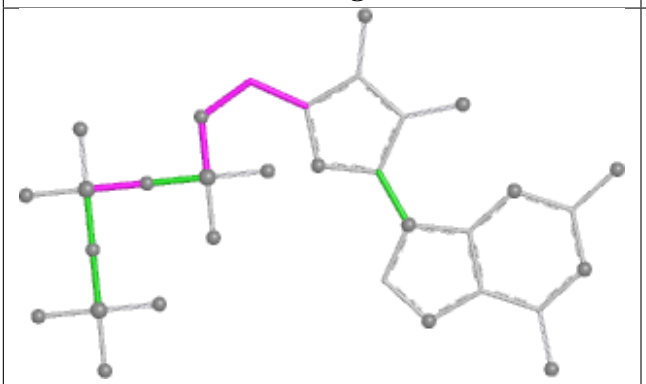
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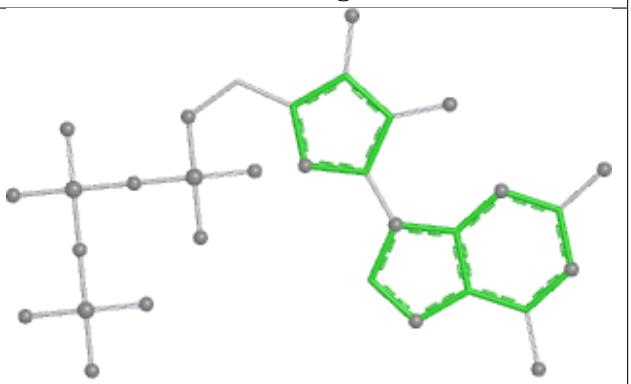
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Bond angles

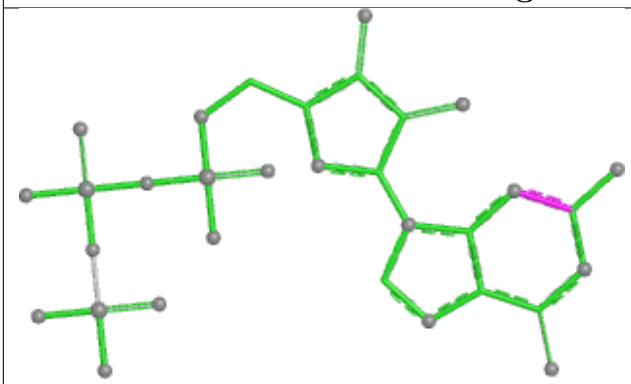


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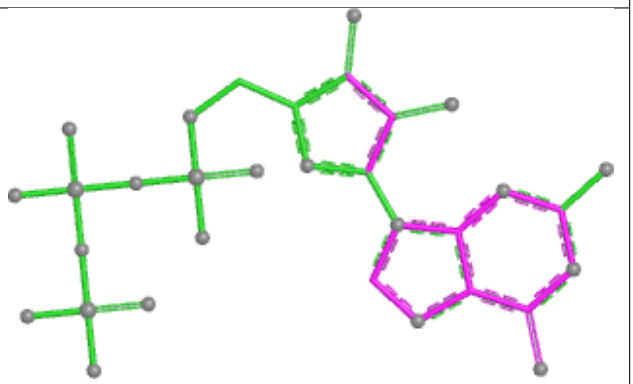


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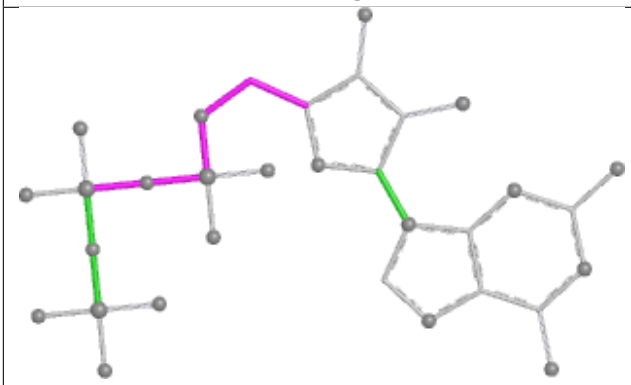
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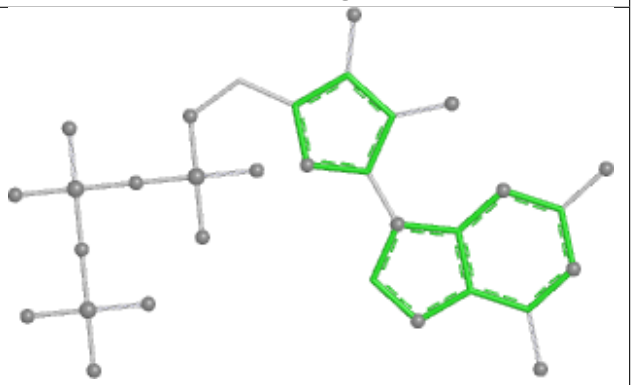
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Bond angles

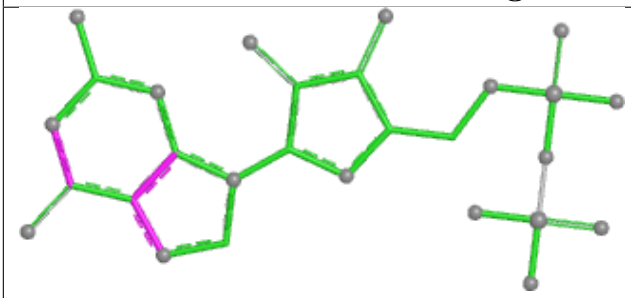


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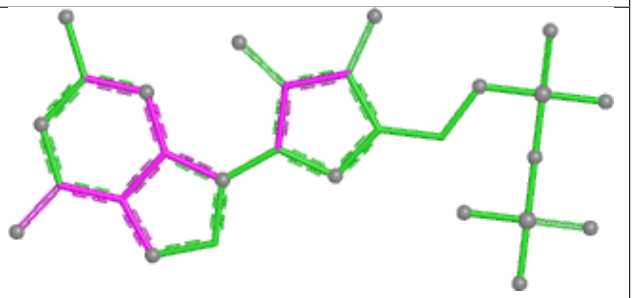


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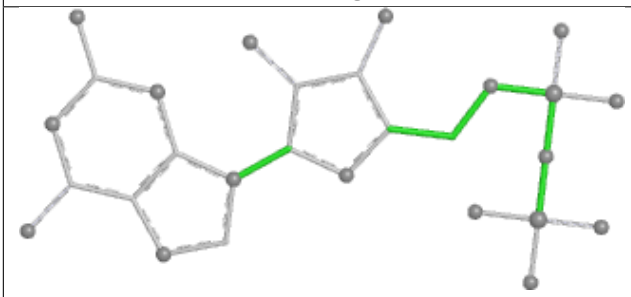
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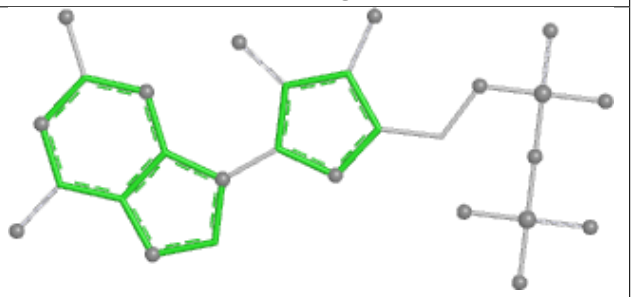
Bond lengths



Bond angles

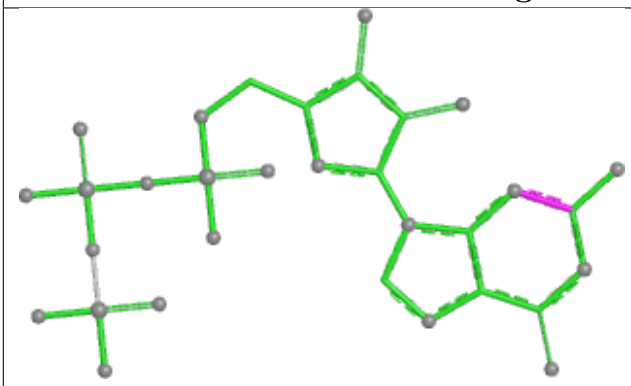


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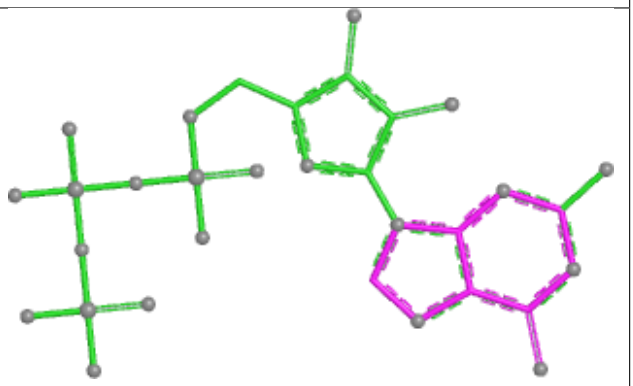


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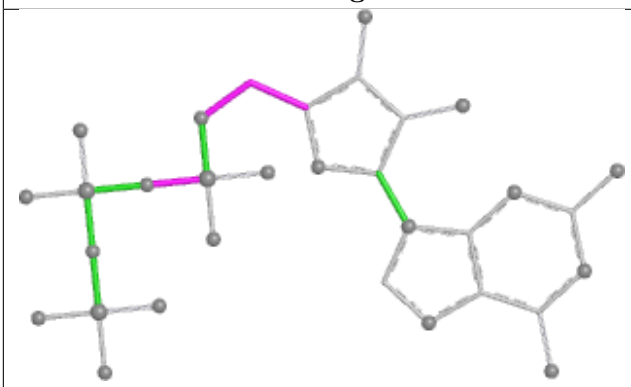
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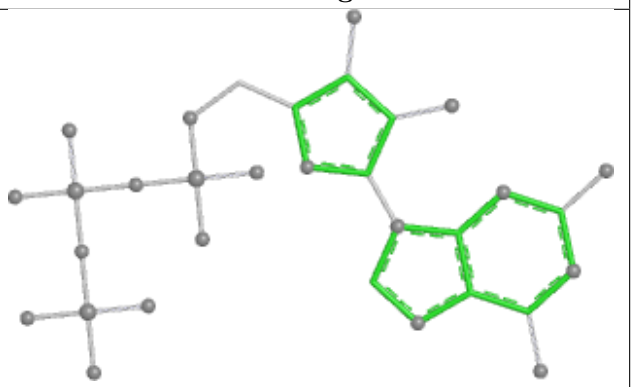
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Bond angles

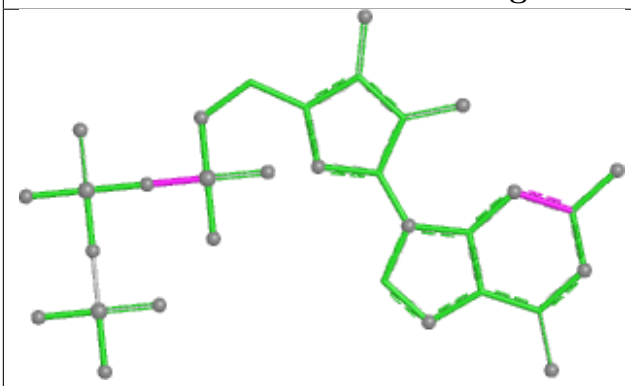


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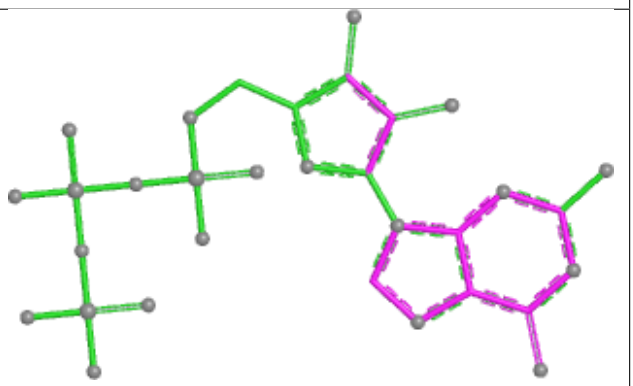


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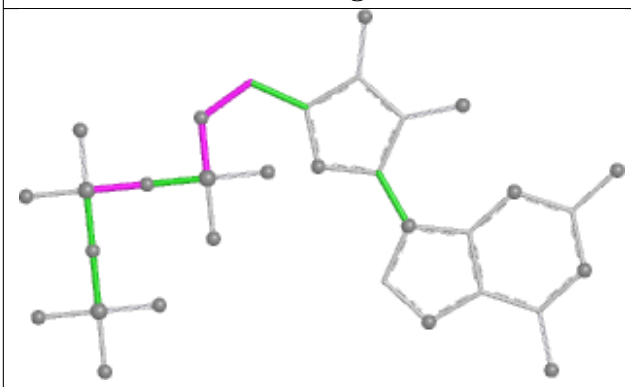
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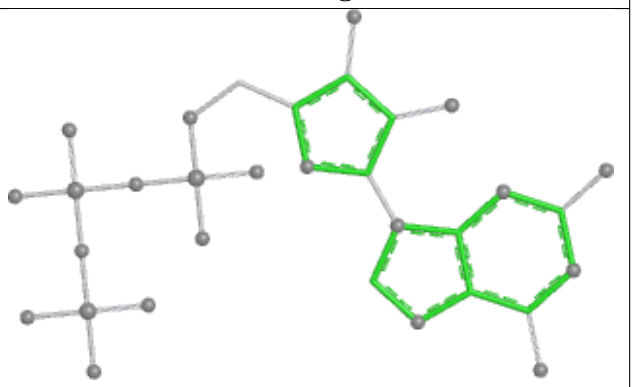
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Bond angles

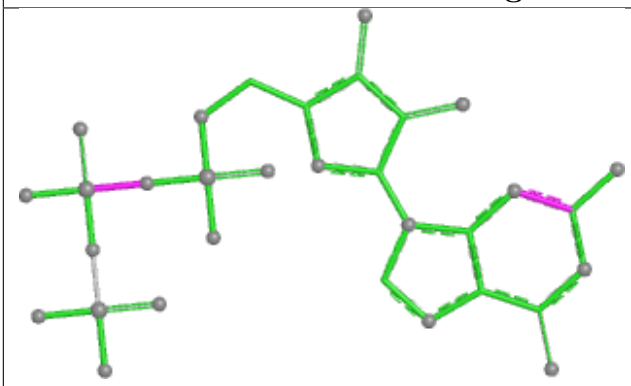


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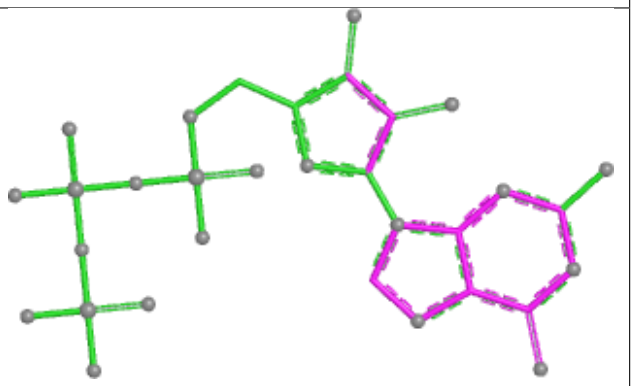


Rings

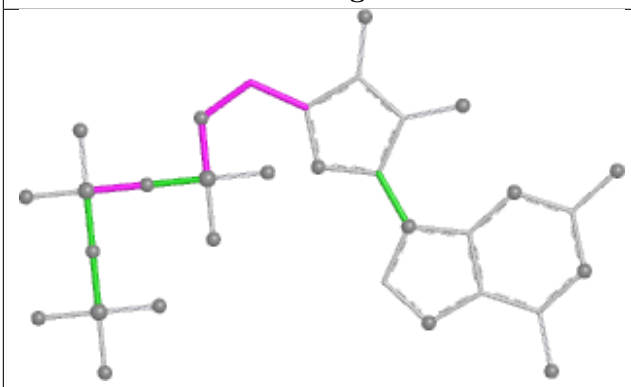
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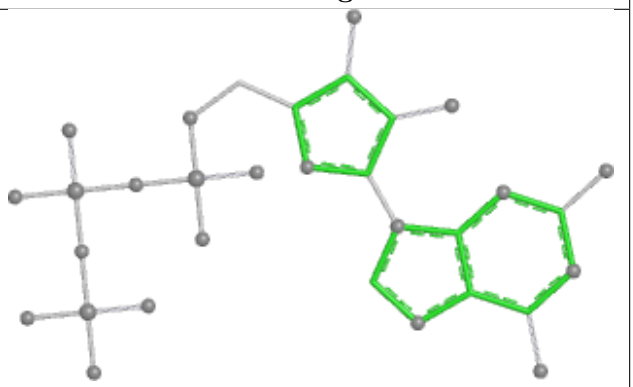
Bond lengths



Bond angles

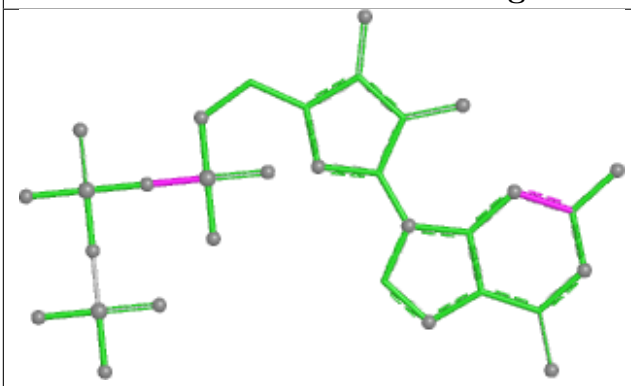


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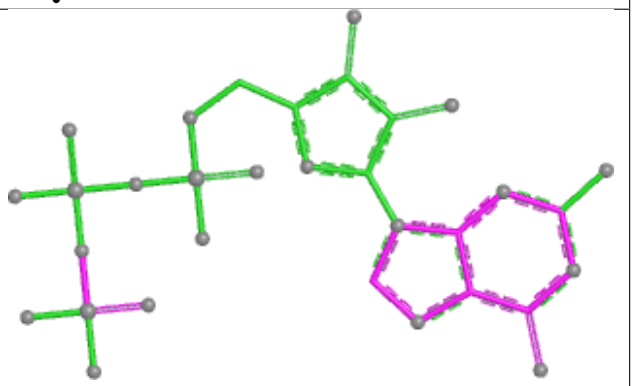


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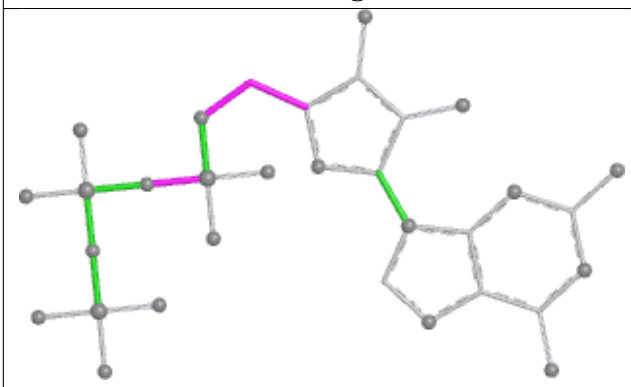
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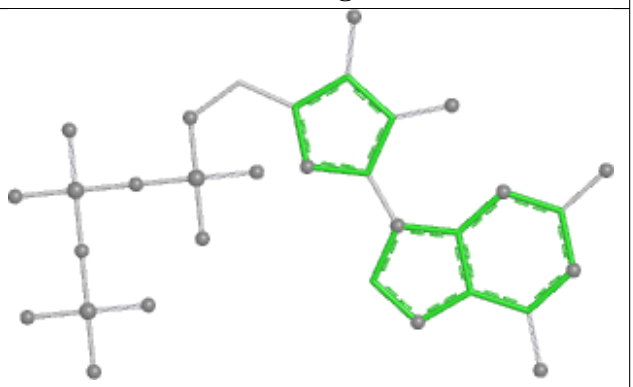
Bond lengths



Bond angles

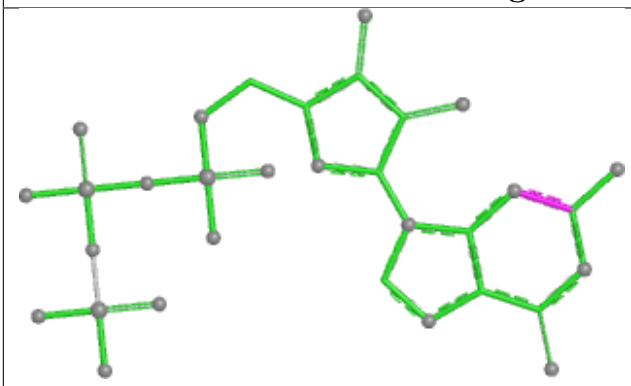


Torsions

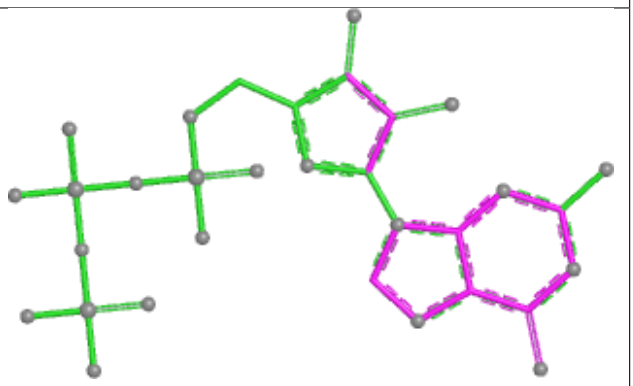


Rings

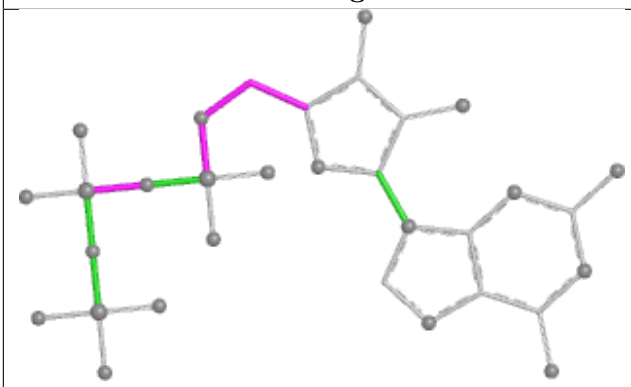
Ligand GTP AG 501



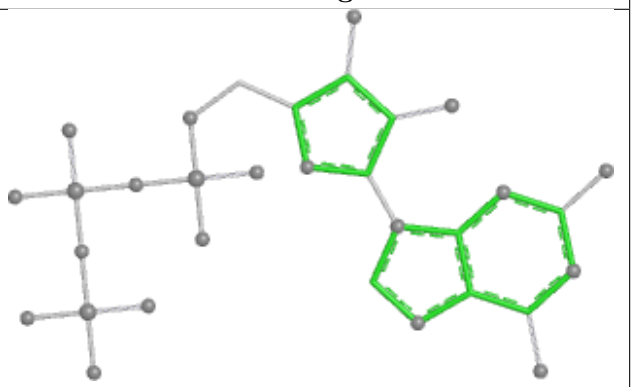
Bond lengths



Bond angles

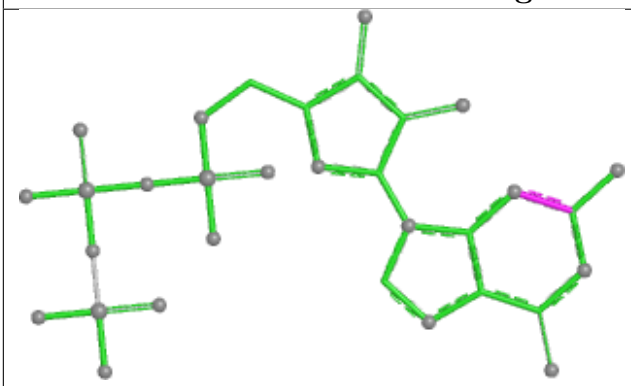


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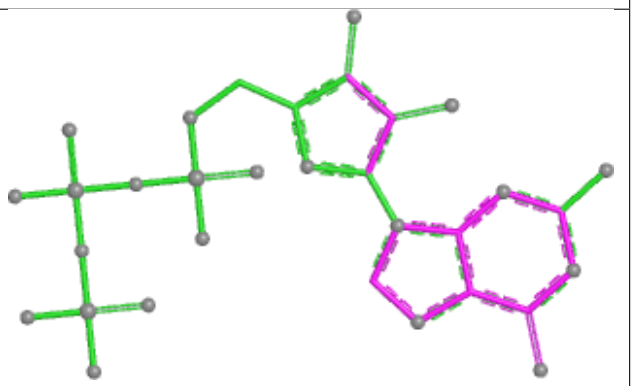


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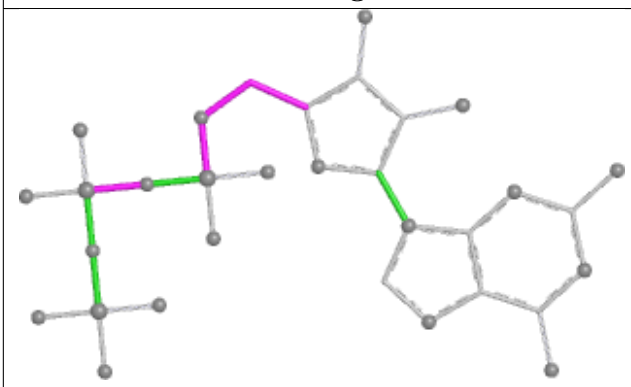
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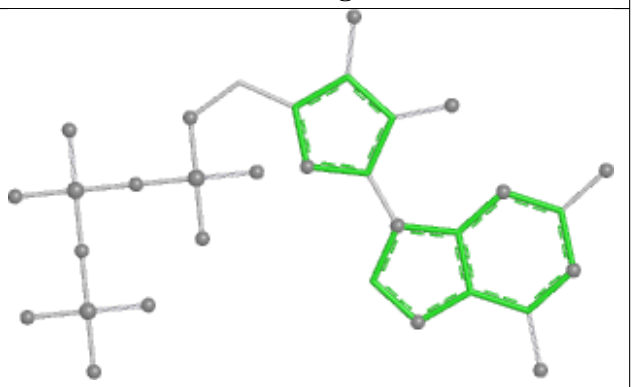
Bond lengths



Bond angles

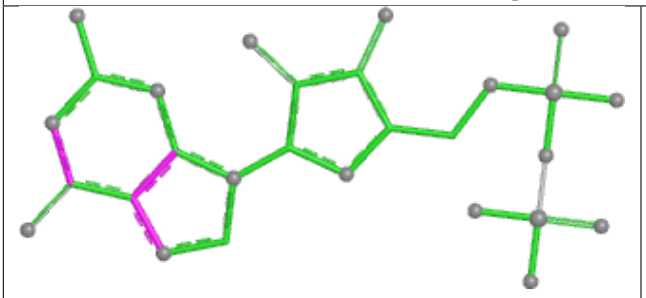


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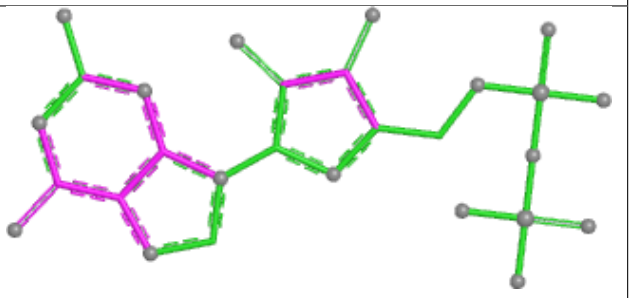


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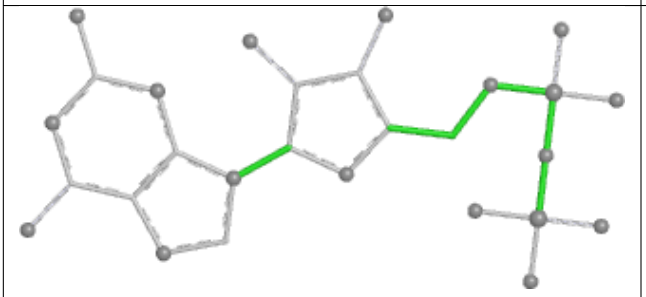
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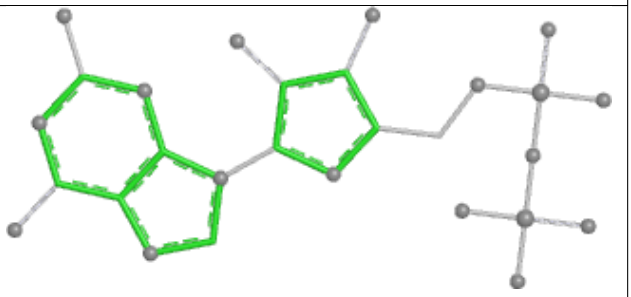
Bond lengths



Bond angles

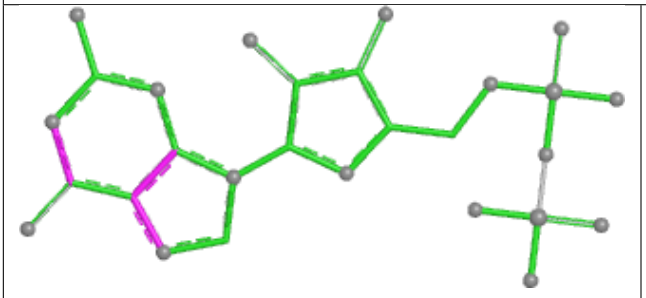


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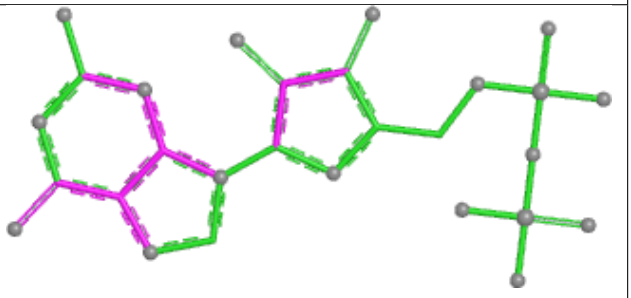


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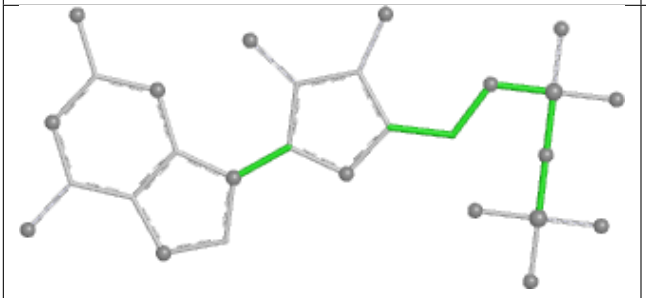
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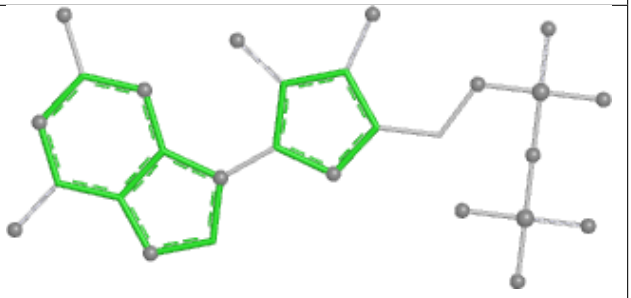
Bond lengths



Bond angles

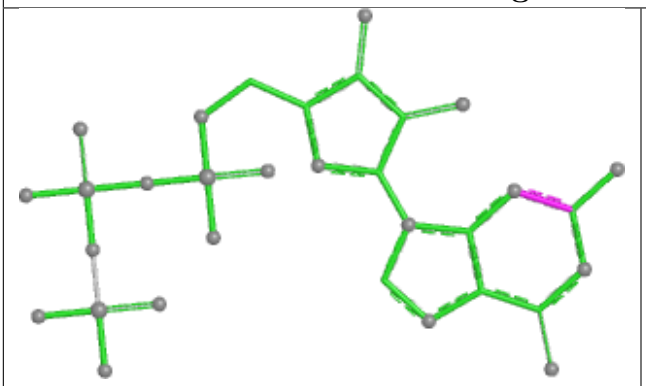


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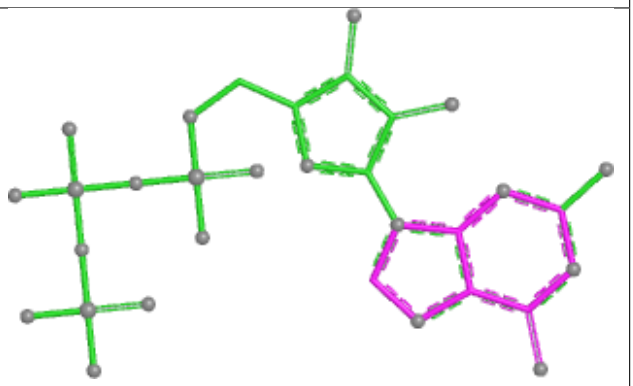


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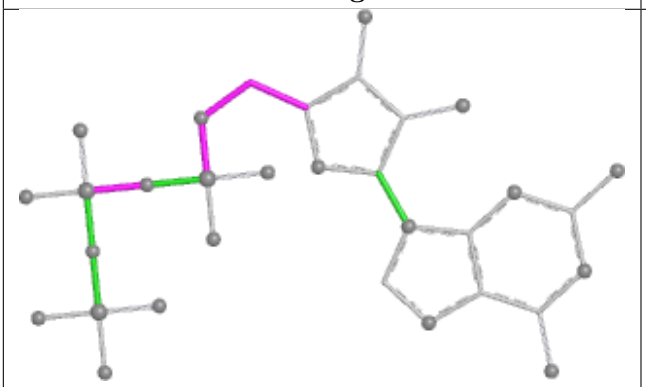
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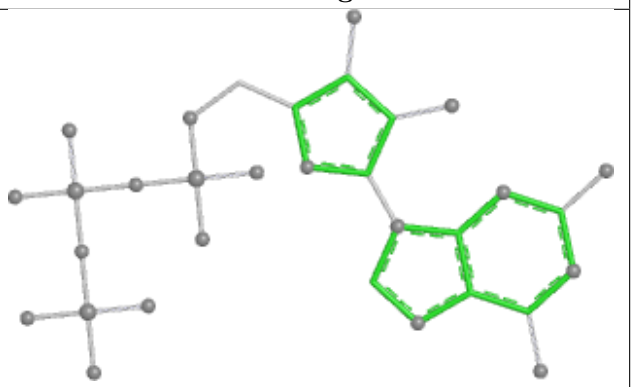
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Bond angles

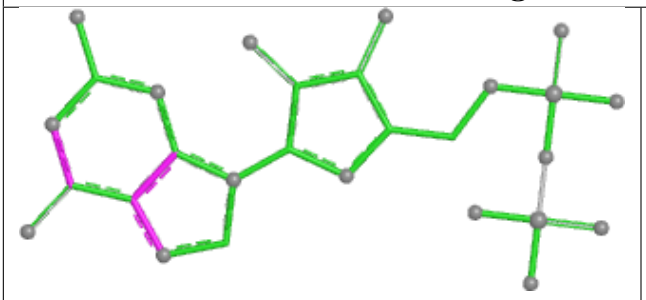


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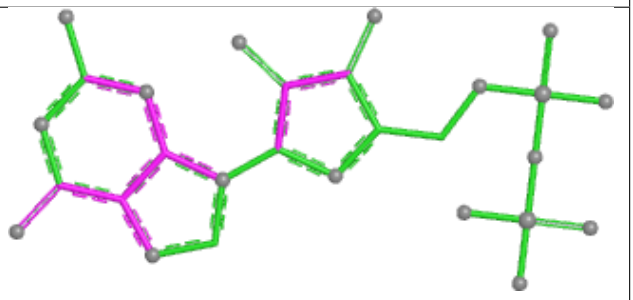


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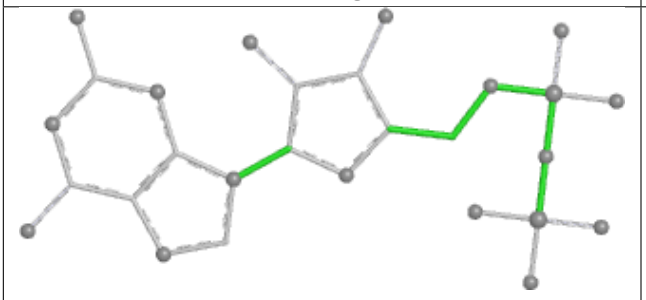
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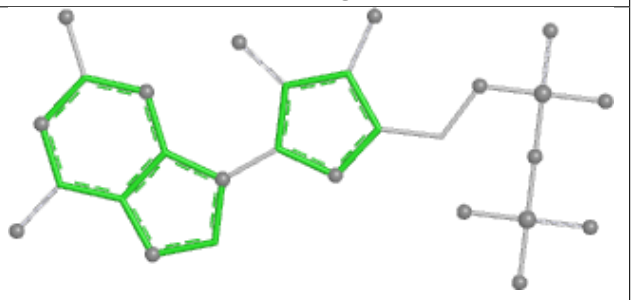
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Bond angles

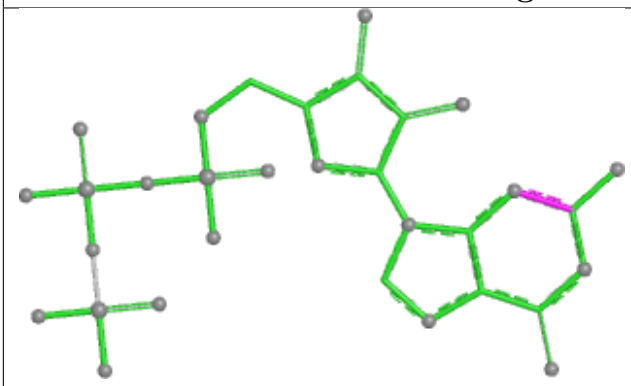


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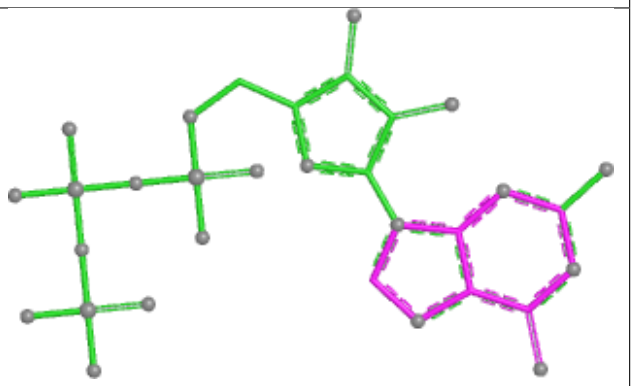


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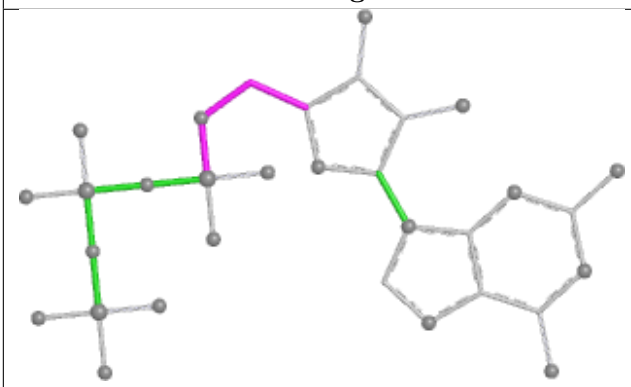
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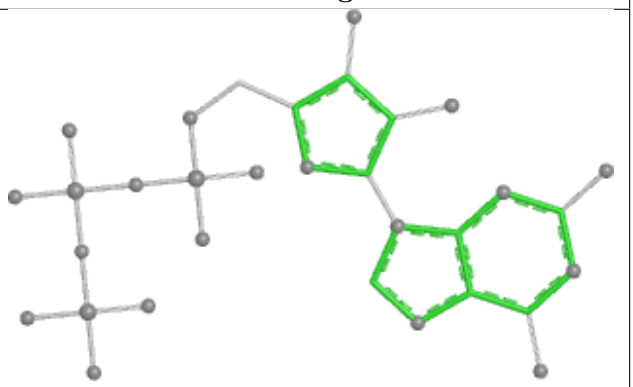
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Bond angles

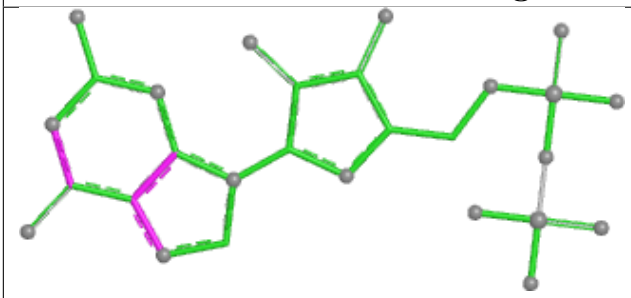


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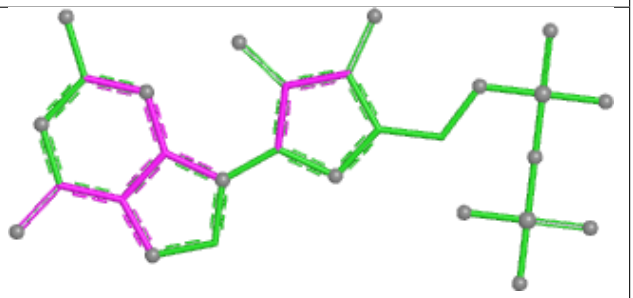


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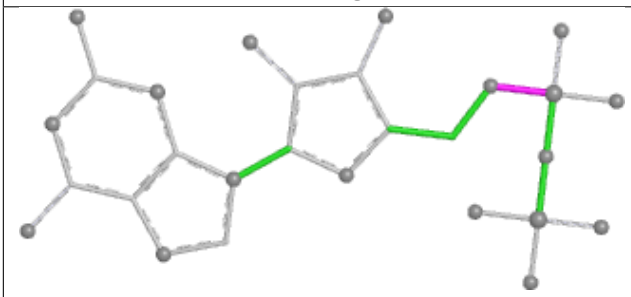
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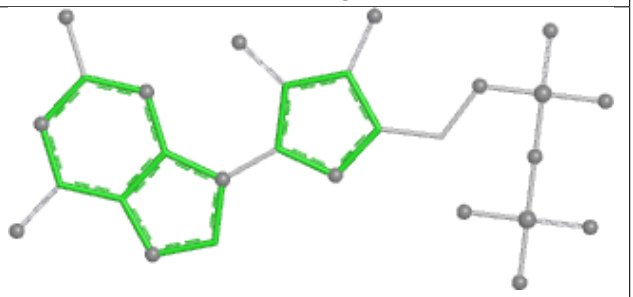
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Bond angles

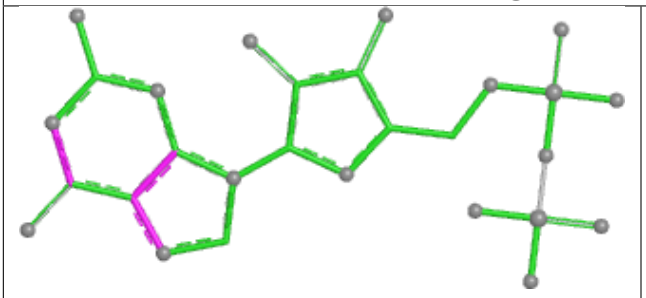


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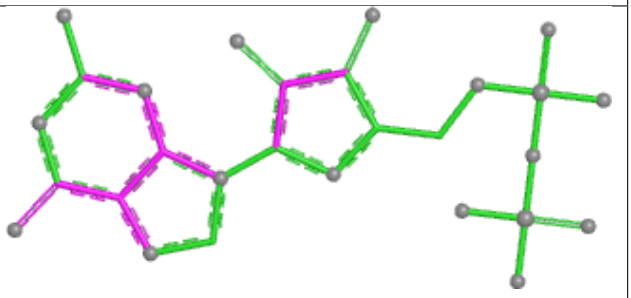


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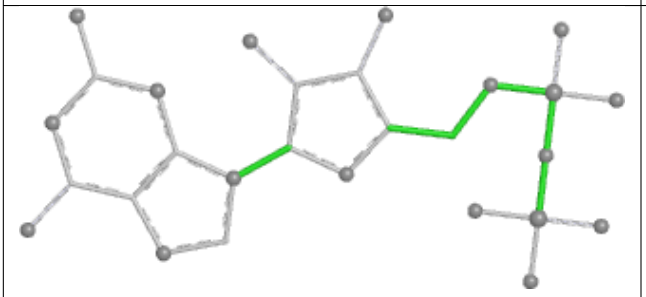
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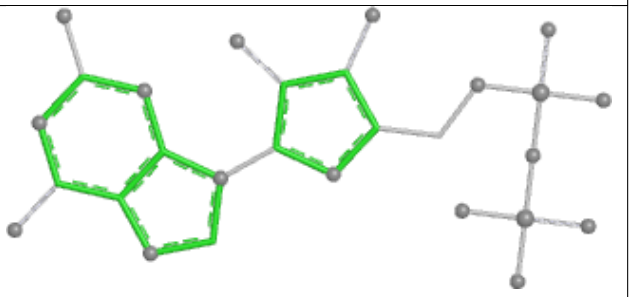
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Bond angles

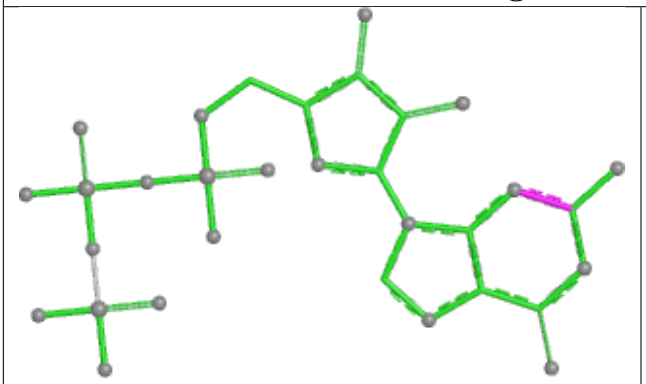


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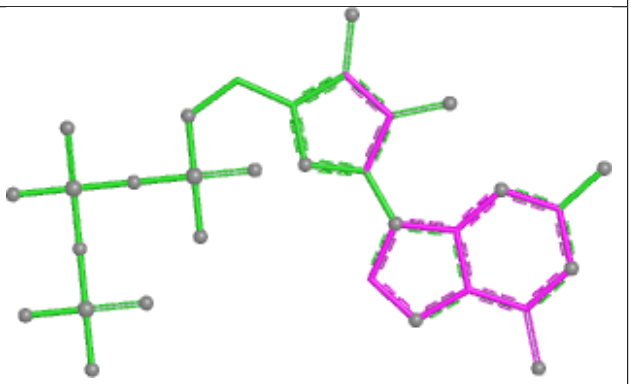


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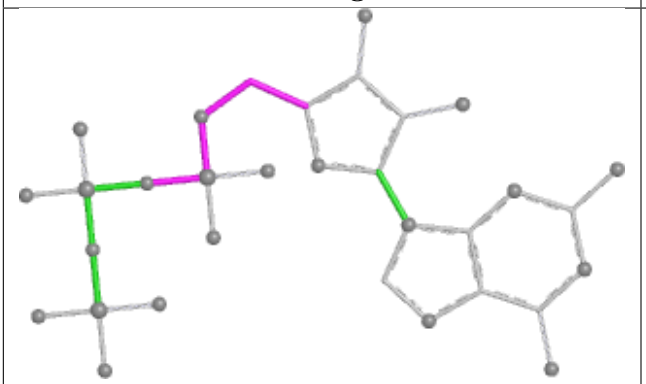
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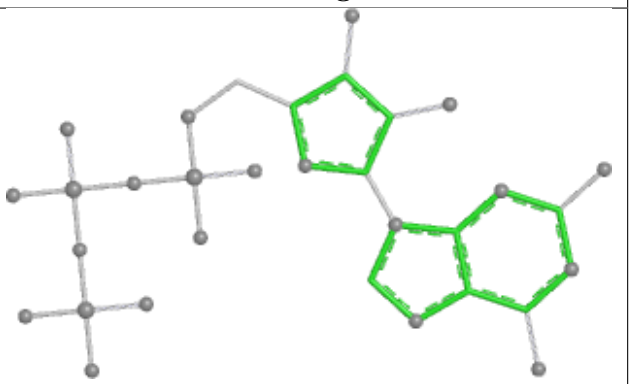
Bond lengths



Bond angles

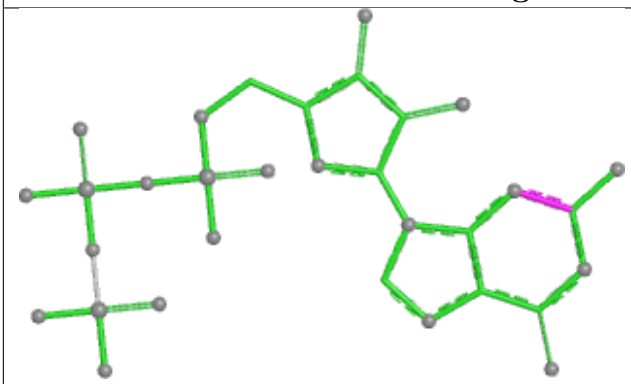


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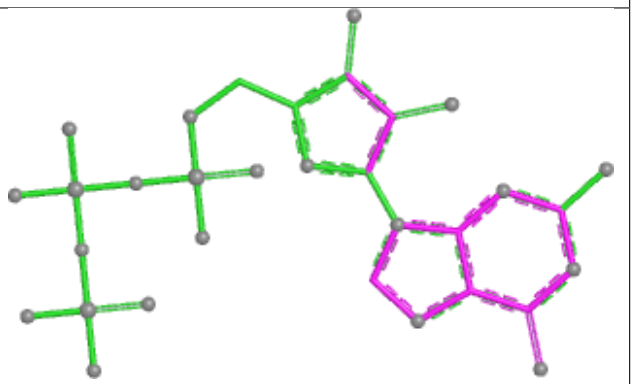


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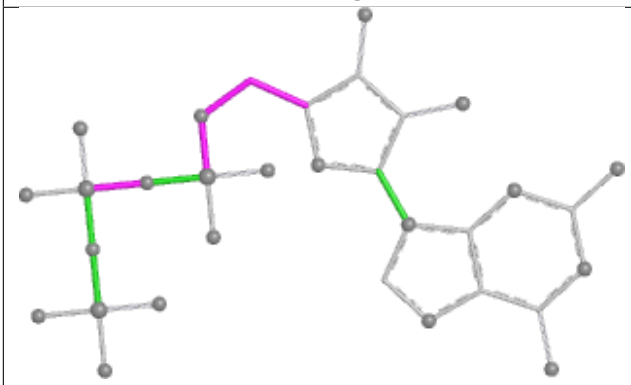
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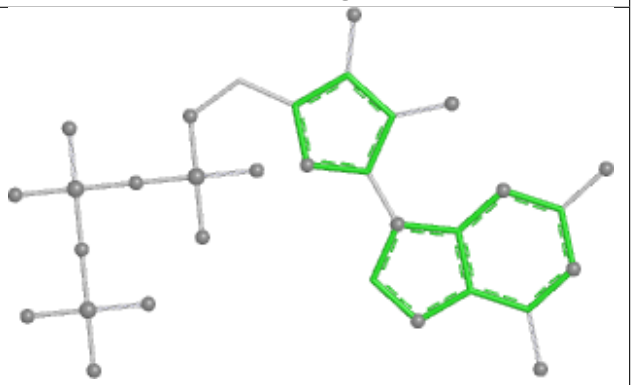
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Bond angles

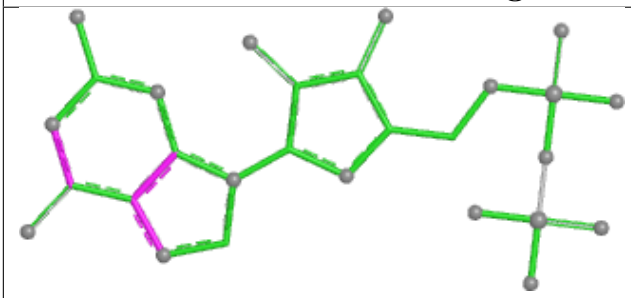


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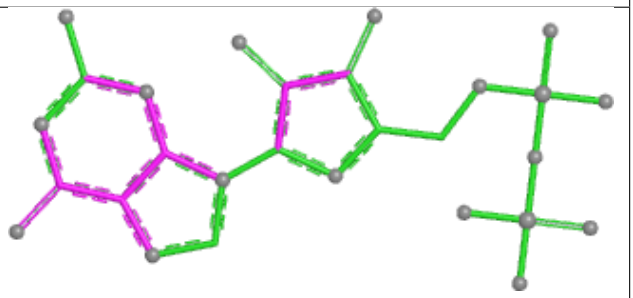


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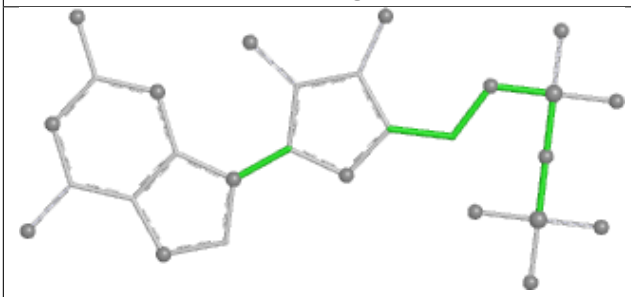
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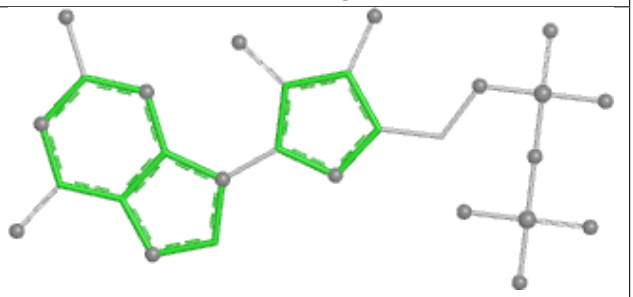
Bond lengths



Bond angles

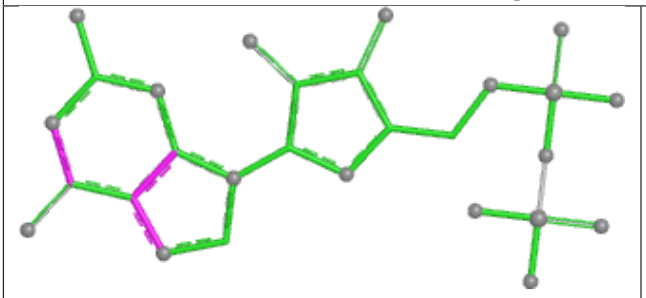


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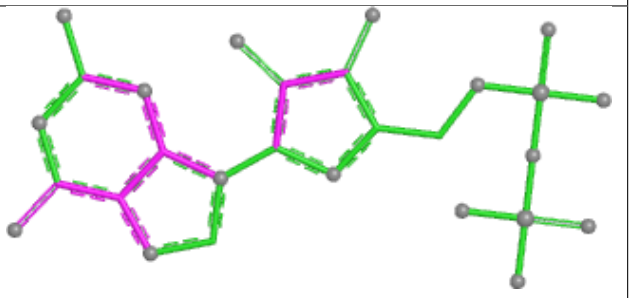


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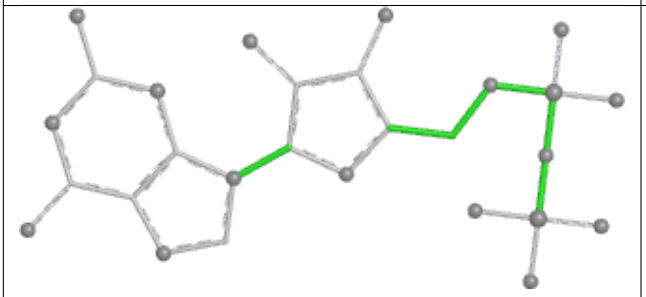
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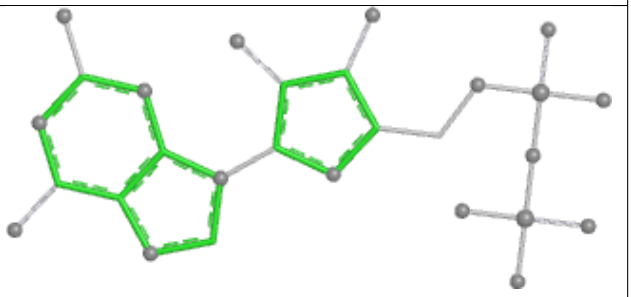
Bond lengths



Bond angles

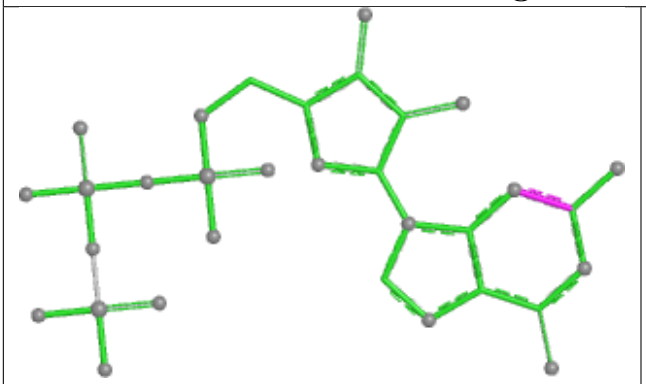


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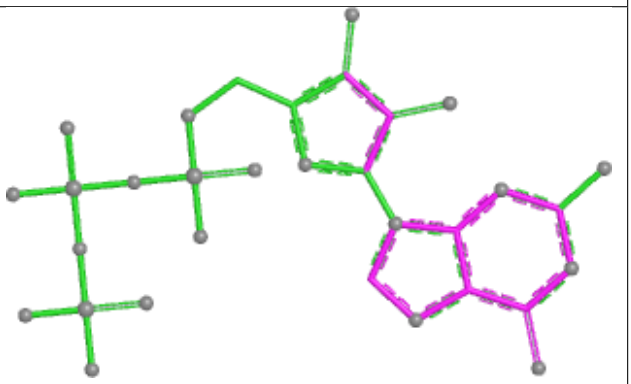


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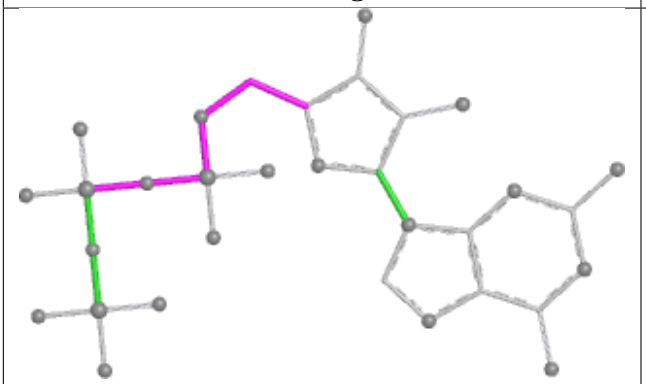
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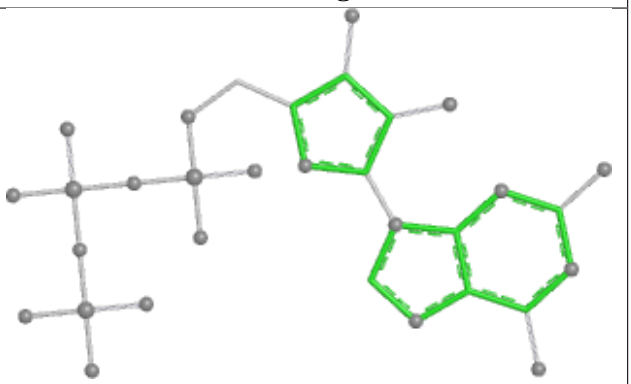
Bond lengths



Bond angles

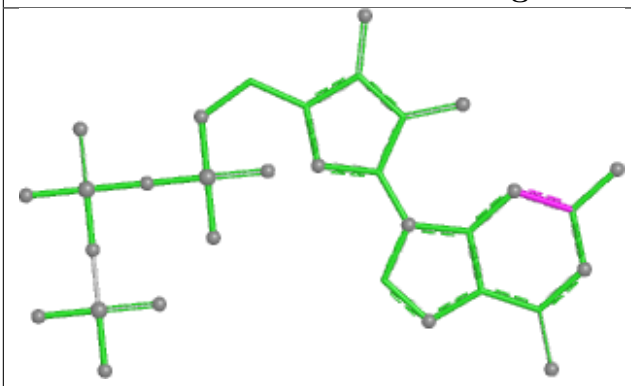


Torsions

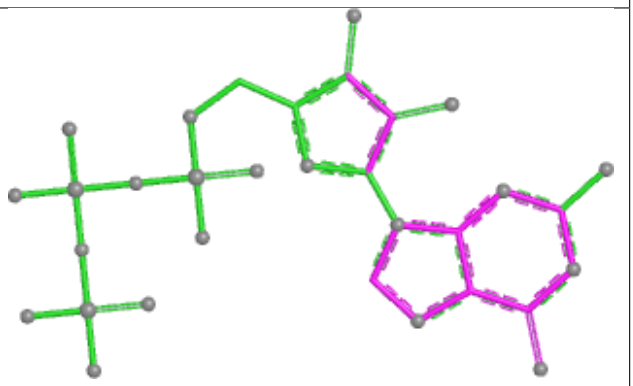


Rings

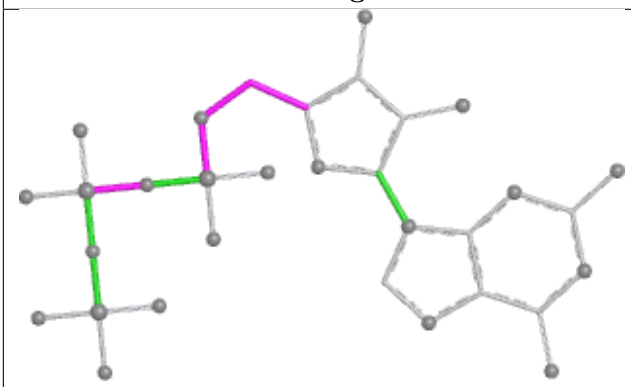
Ligand GTP TE 501



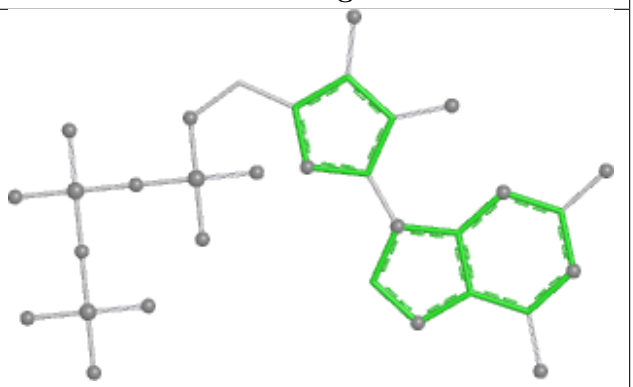
Bond lengths



Bond angles

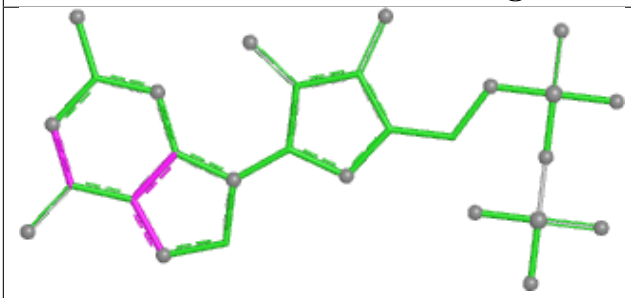


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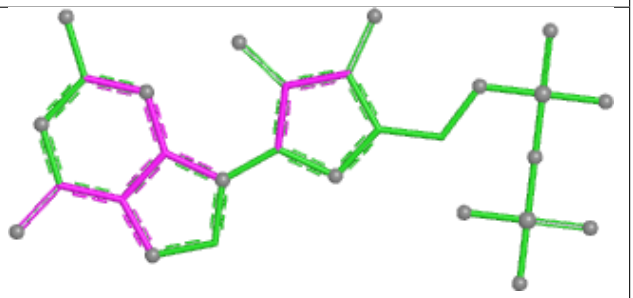


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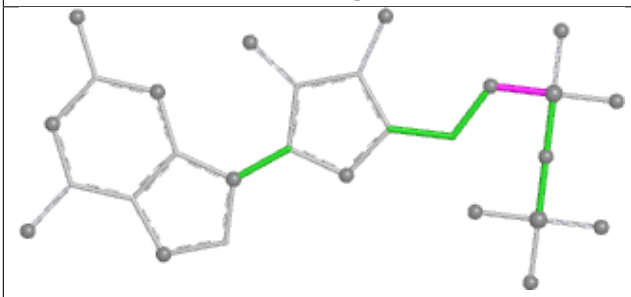
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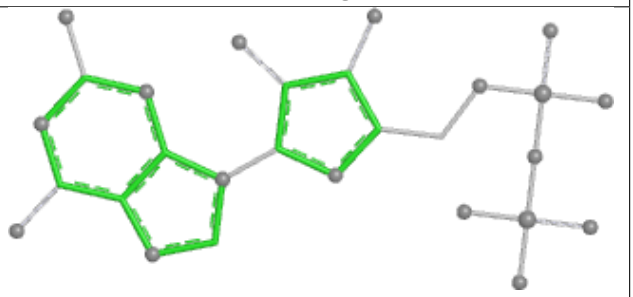
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Bond angles

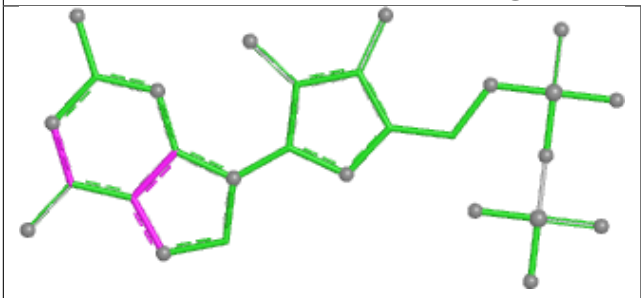


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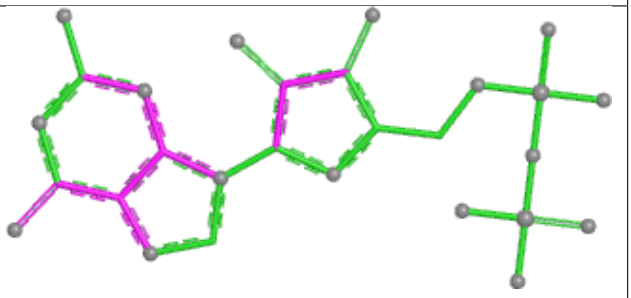


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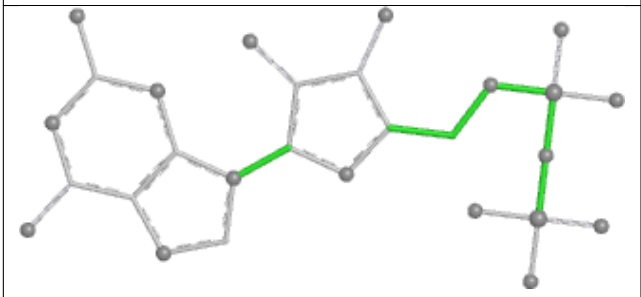
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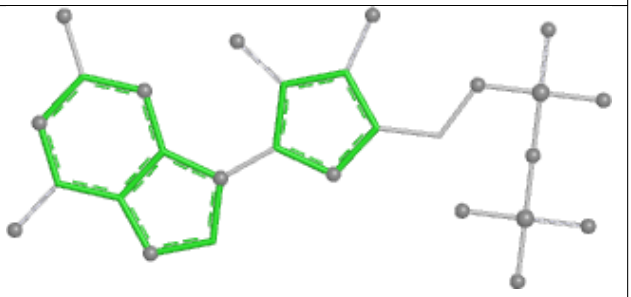
Bond lengths



Bond angles

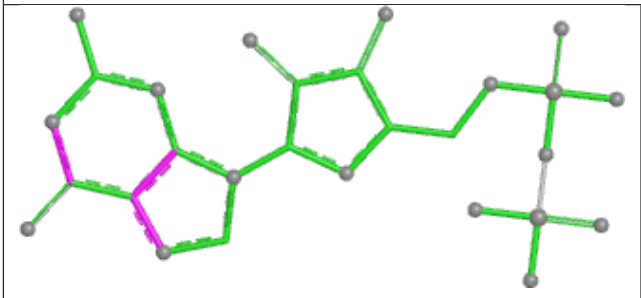


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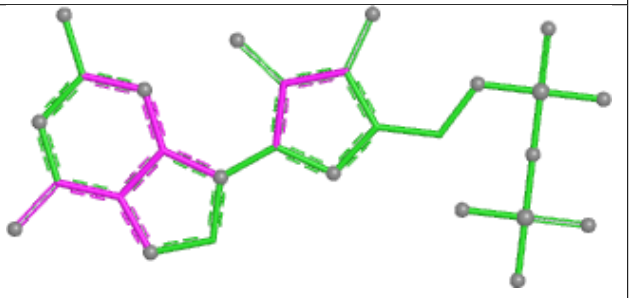


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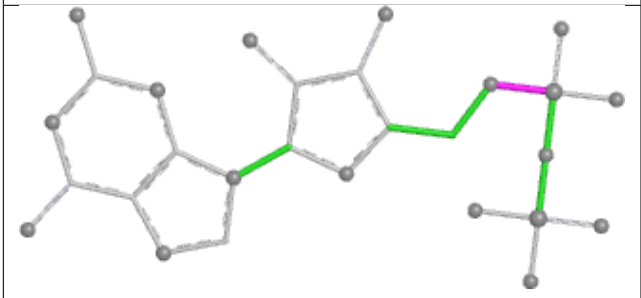
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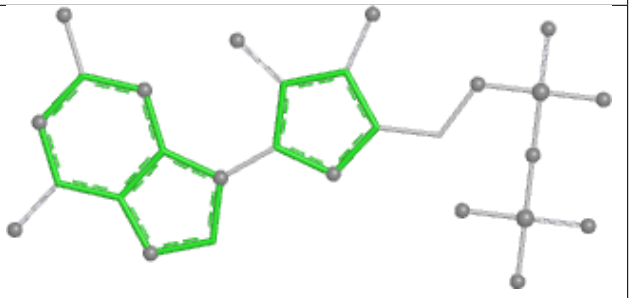
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Bond angles

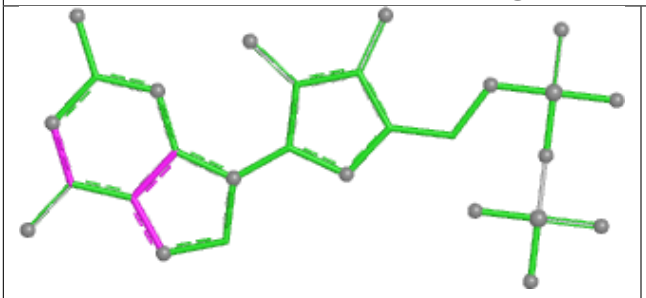


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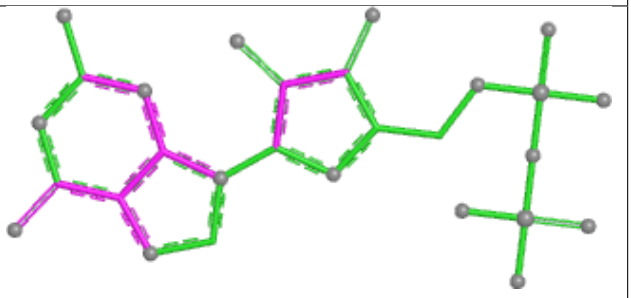


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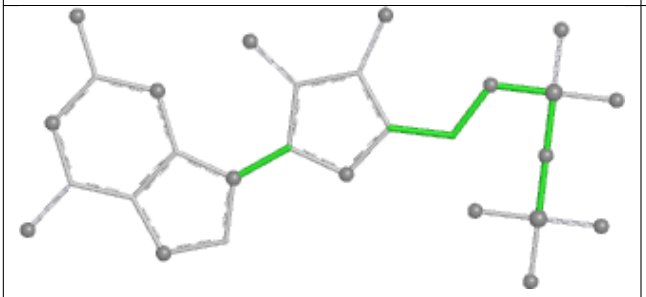
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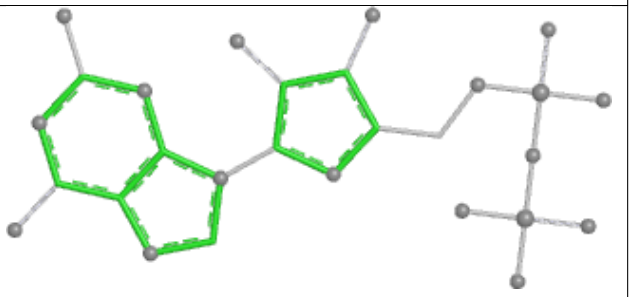
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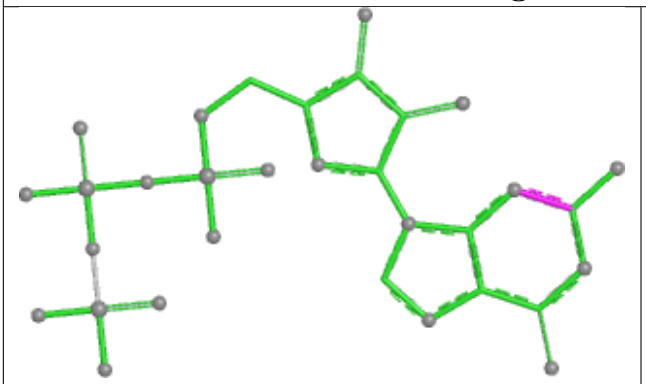


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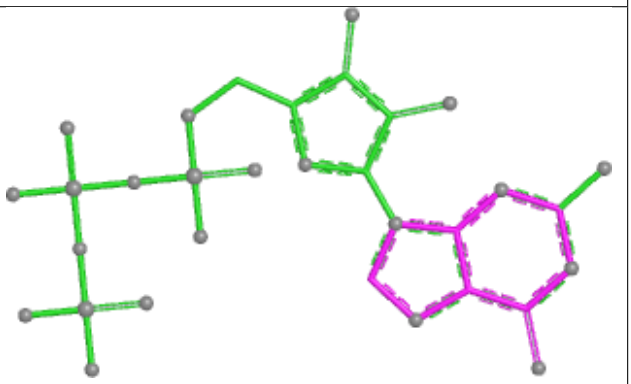


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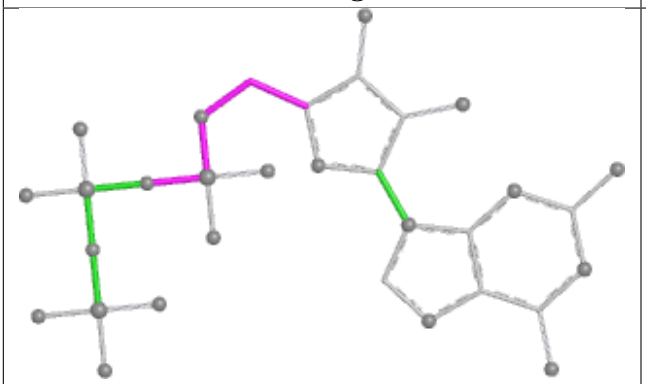
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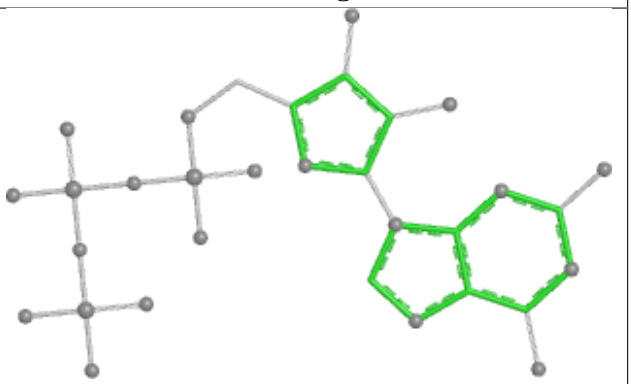
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Bond angles

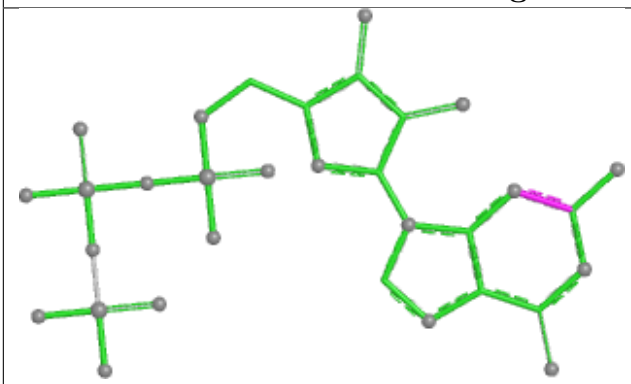


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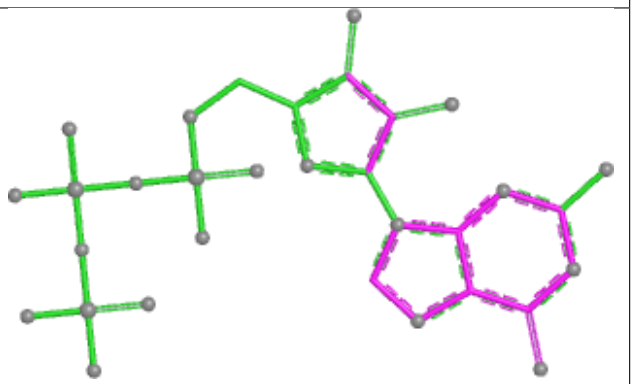


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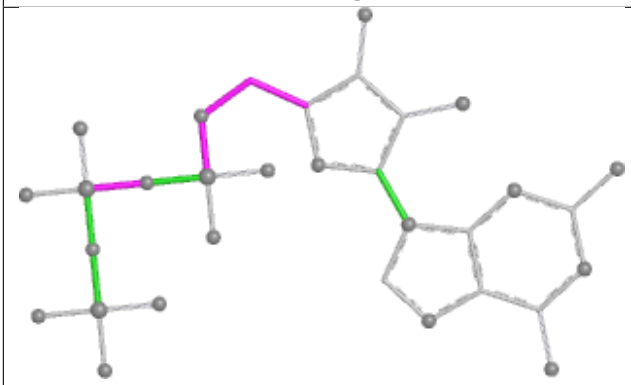
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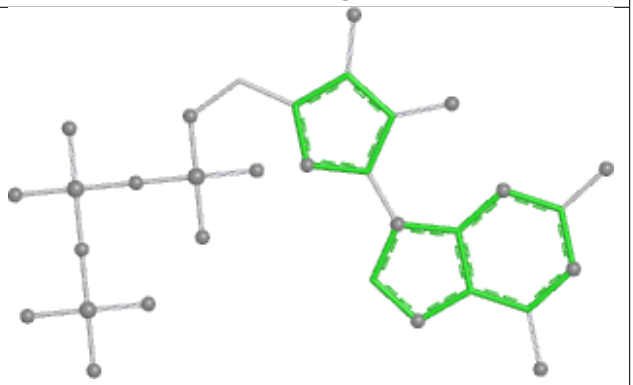
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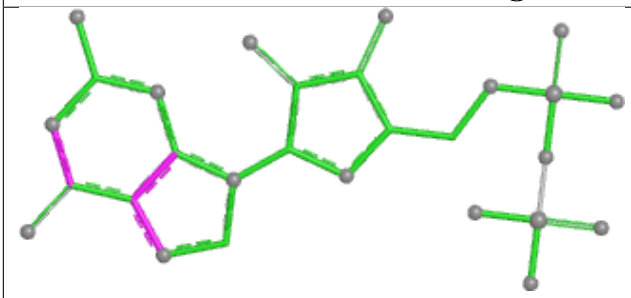


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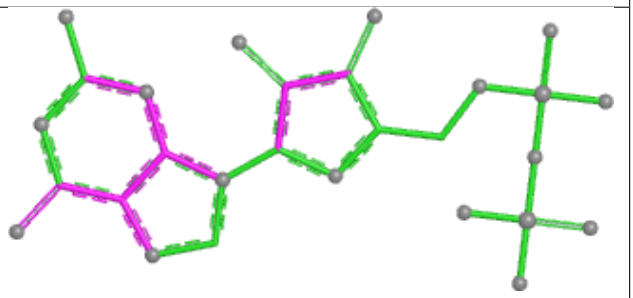


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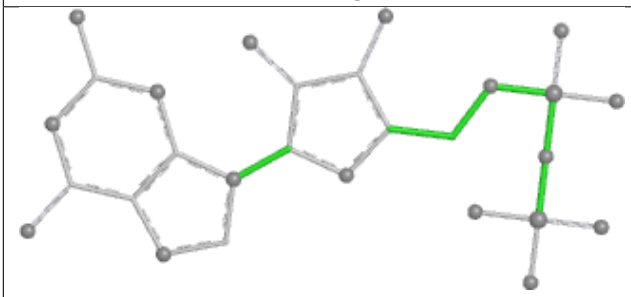
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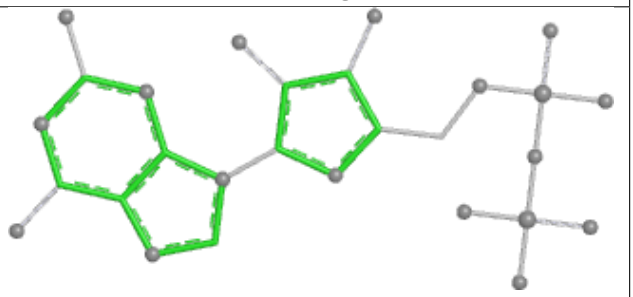
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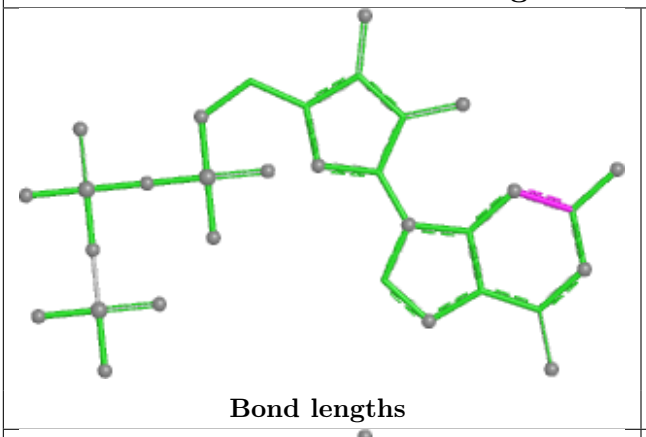


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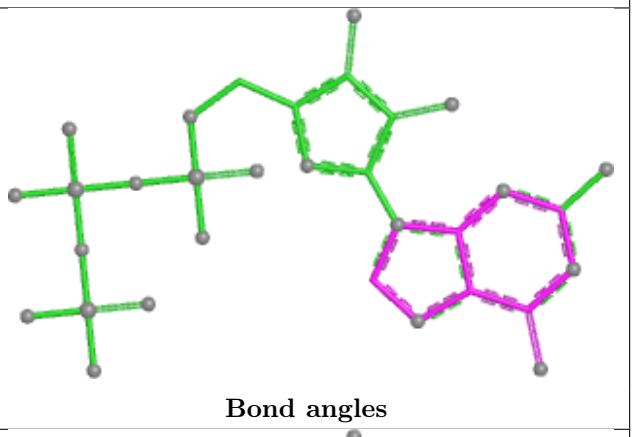


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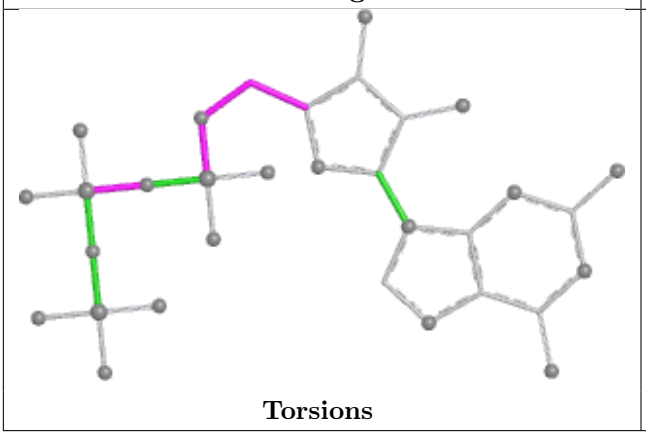
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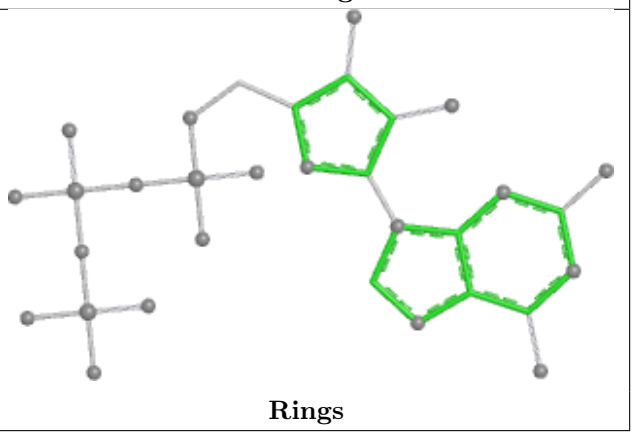
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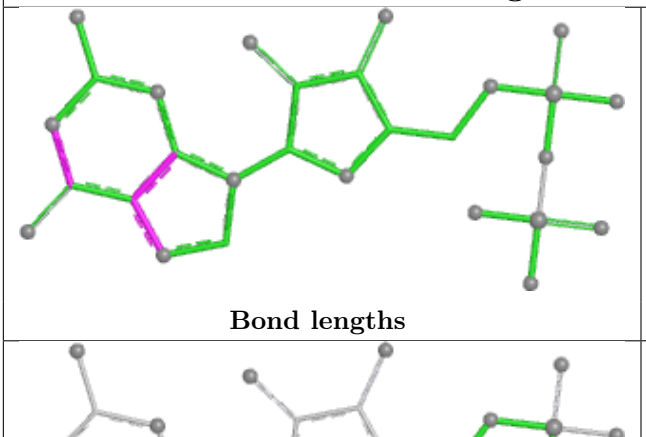


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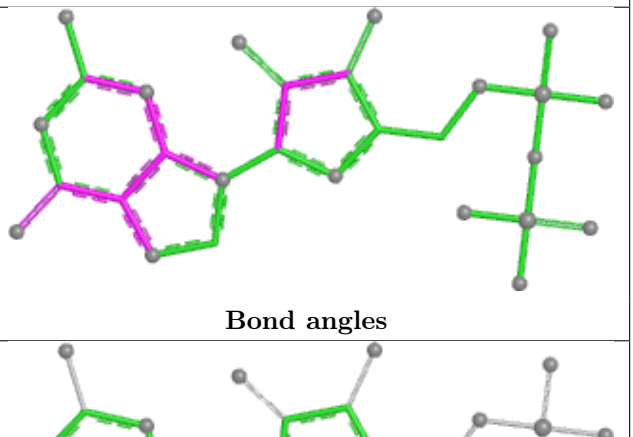


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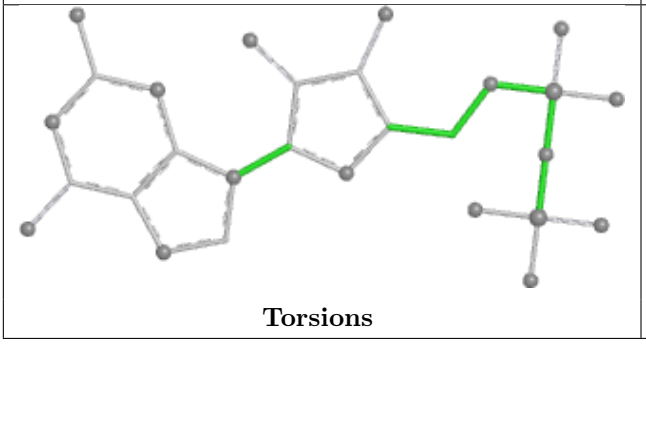
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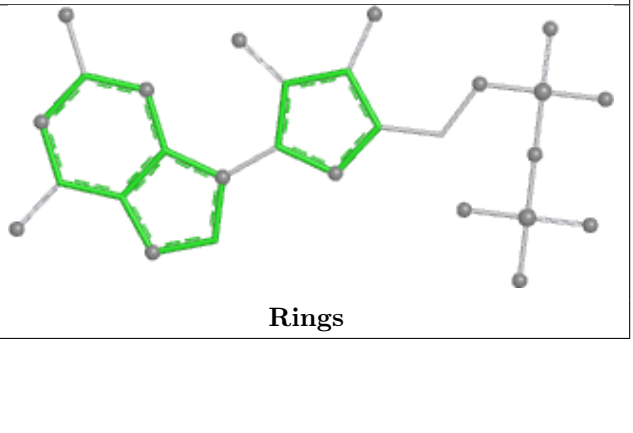
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Bond angles

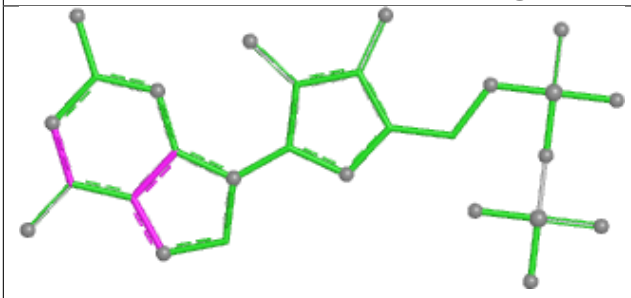


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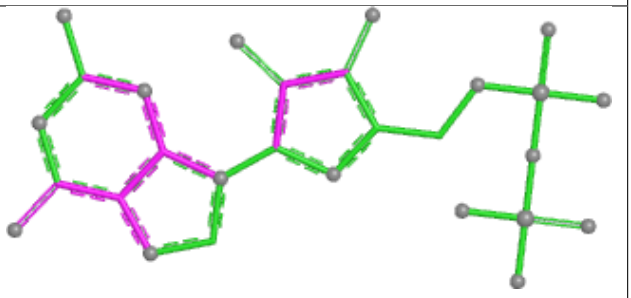


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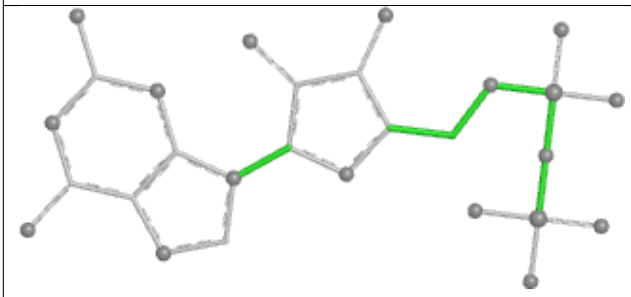
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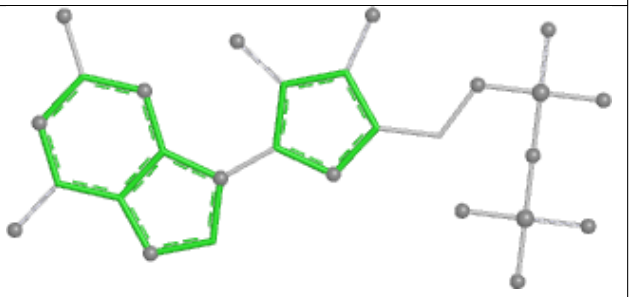
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Bond angles

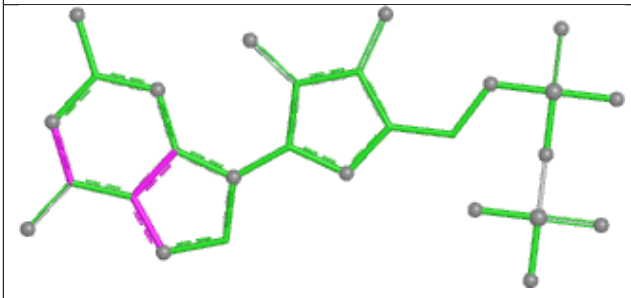


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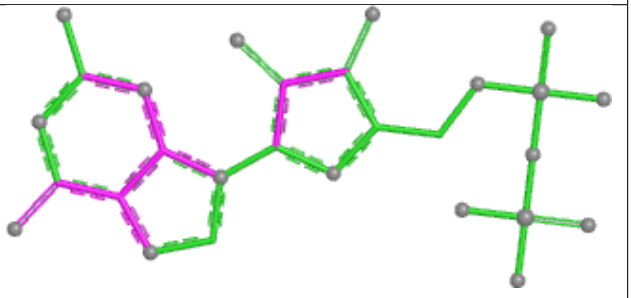


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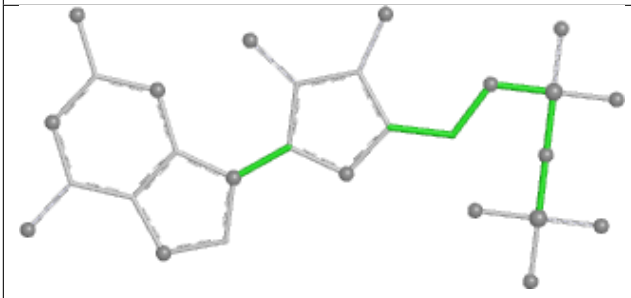
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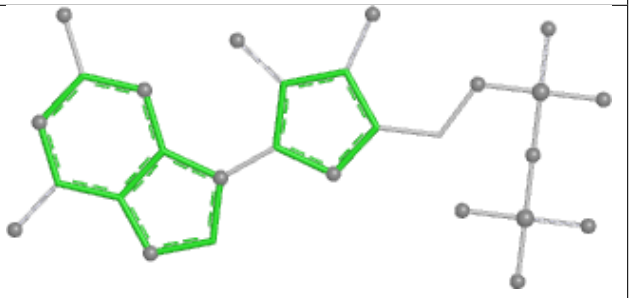
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Bond angles

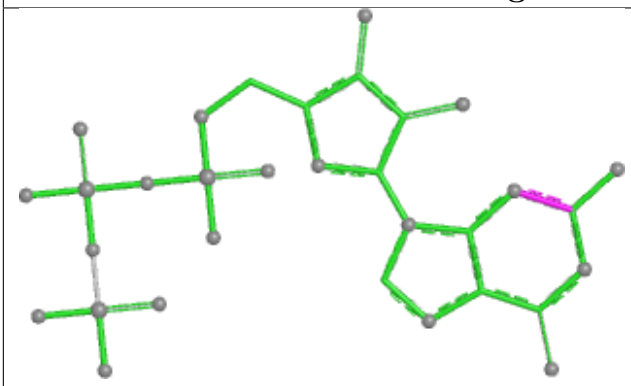


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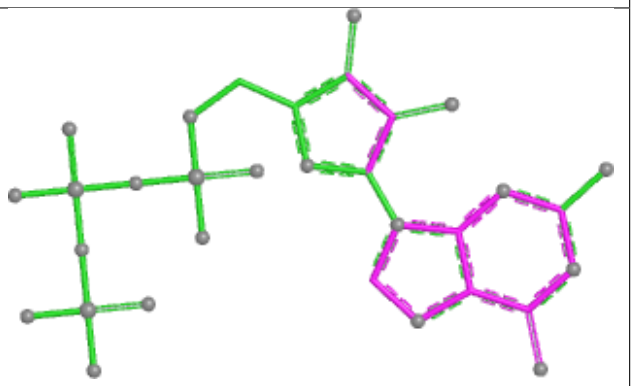


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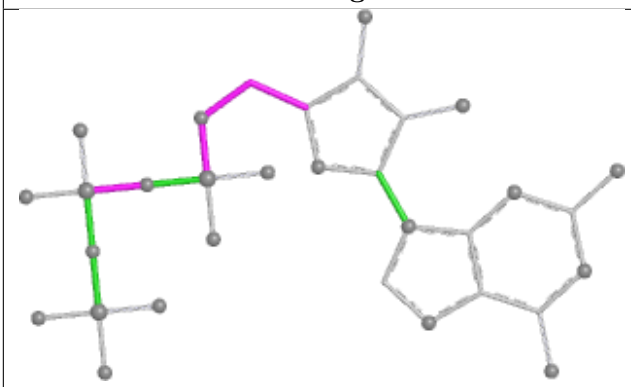
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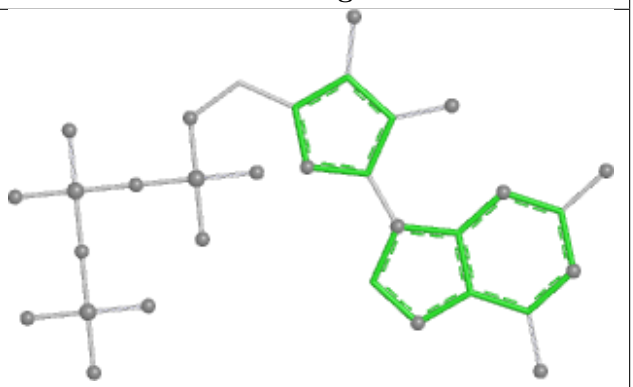
Bond lengths



Bond angles

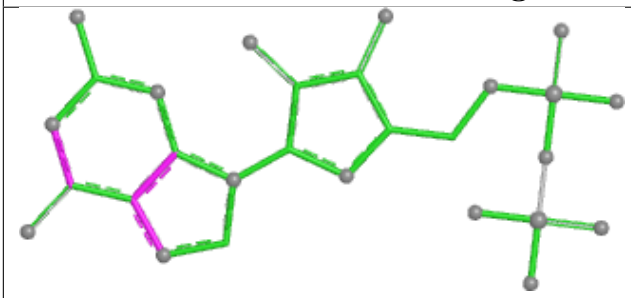


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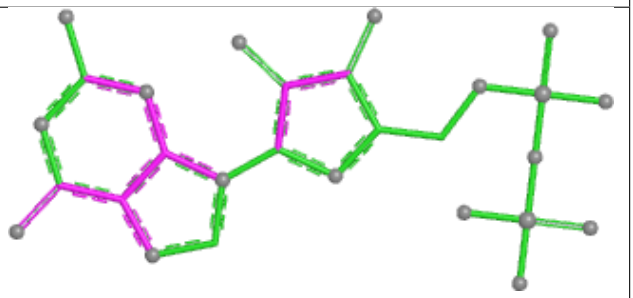


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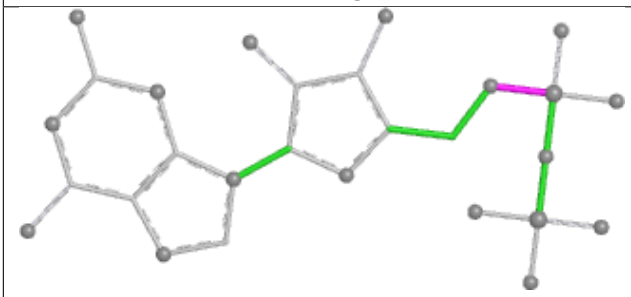
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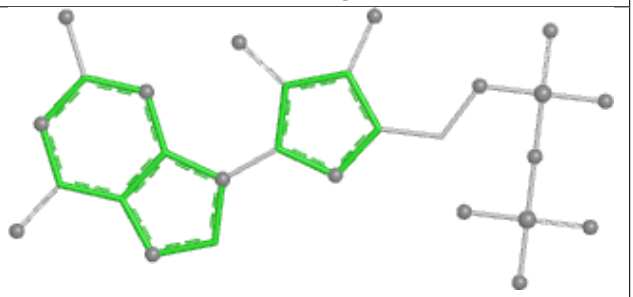
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Bond angles

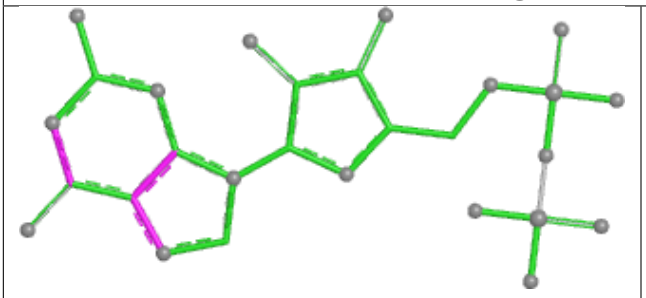


Torsions

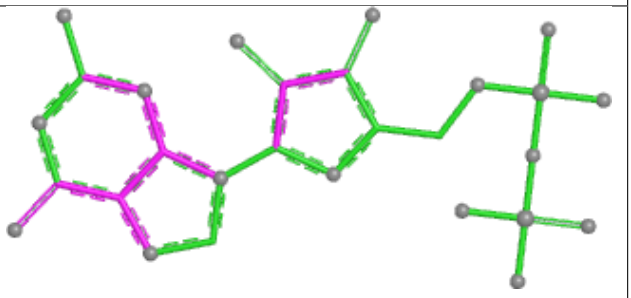


Rings

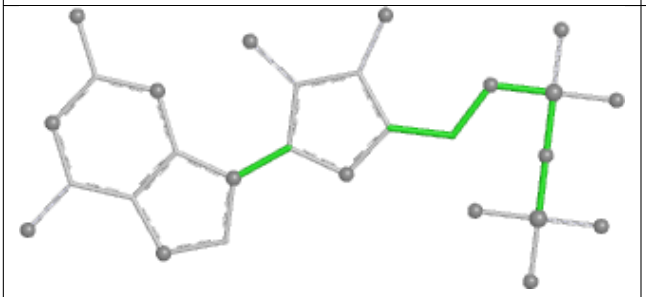
Ligand GDP BL 501



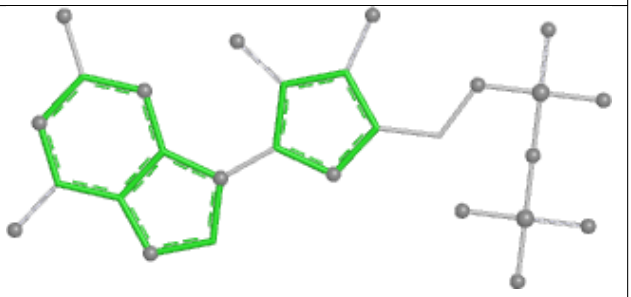
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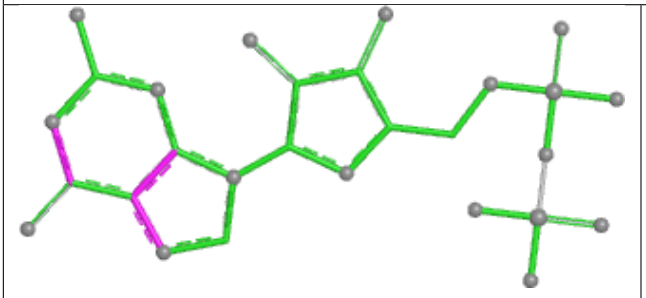


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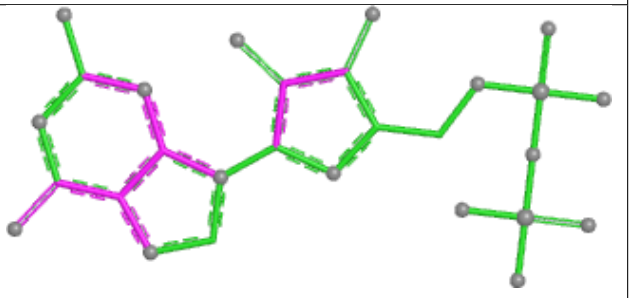


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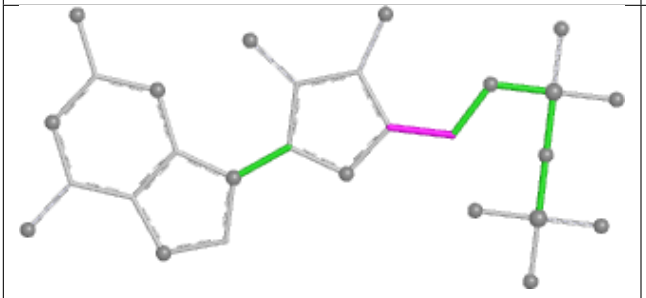
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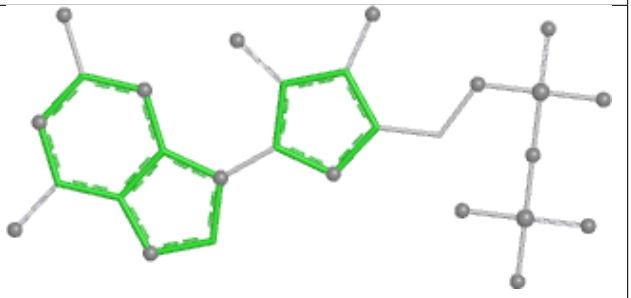
Bond lengths



Bond angles

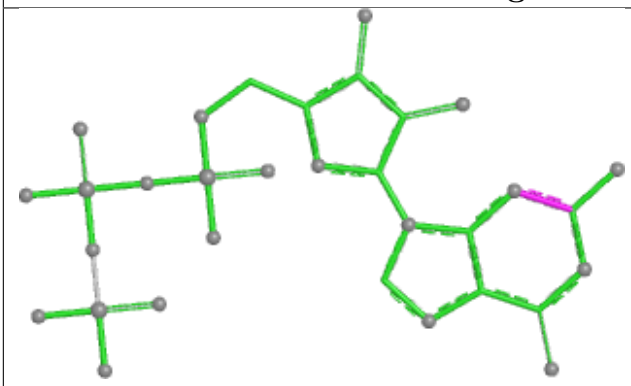


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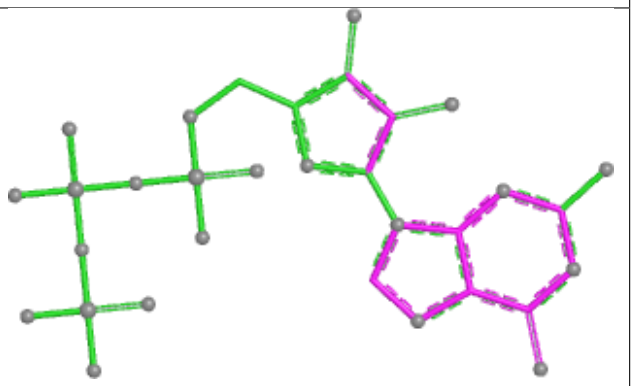


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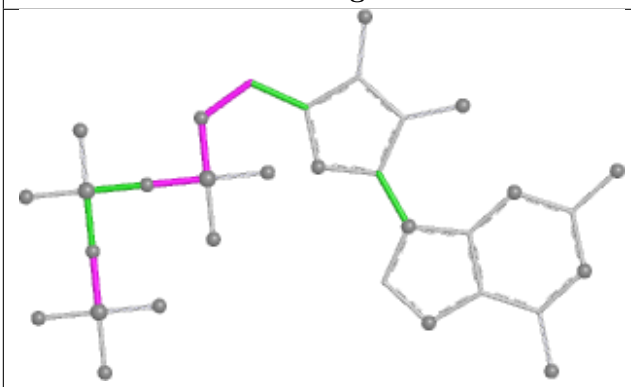
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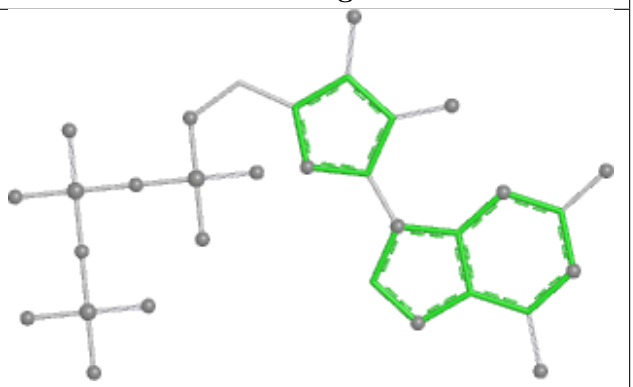
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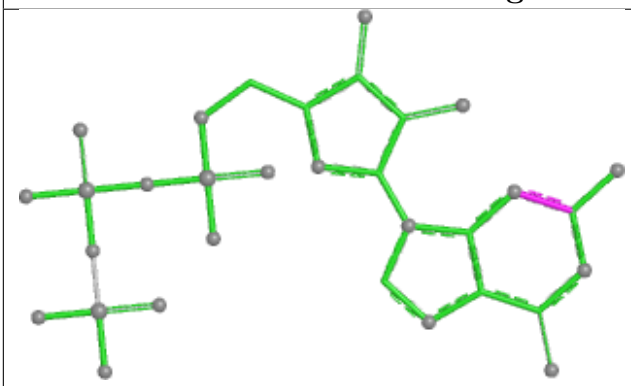


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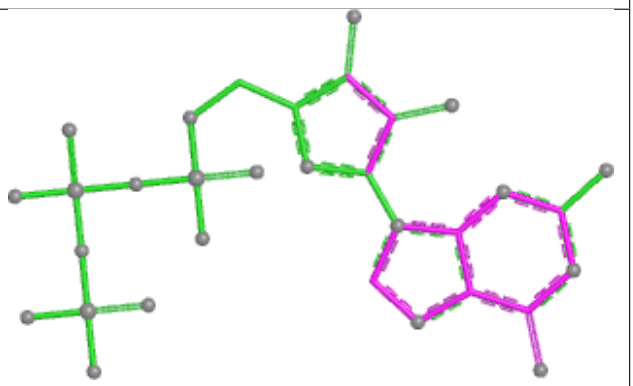


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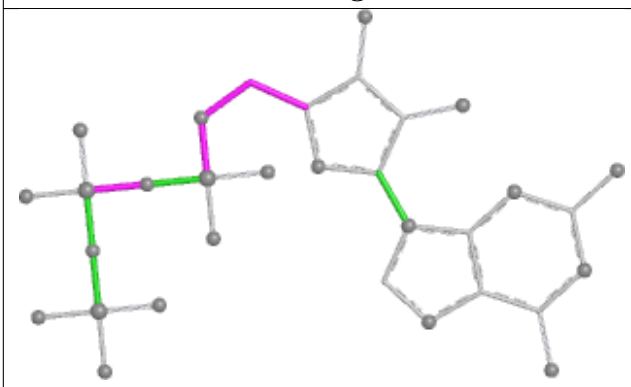
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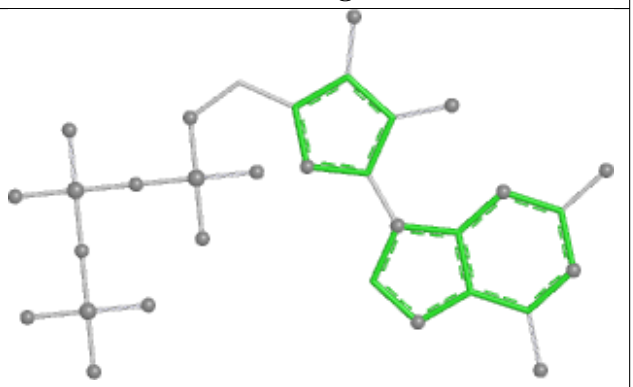
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Bond angles

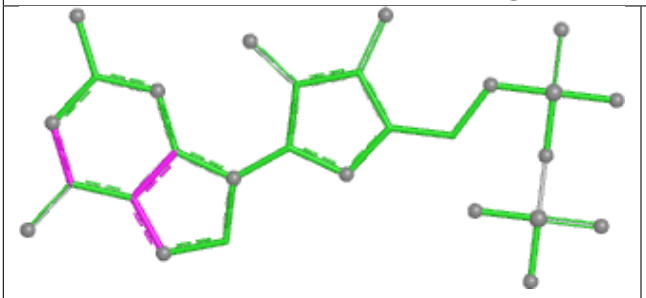


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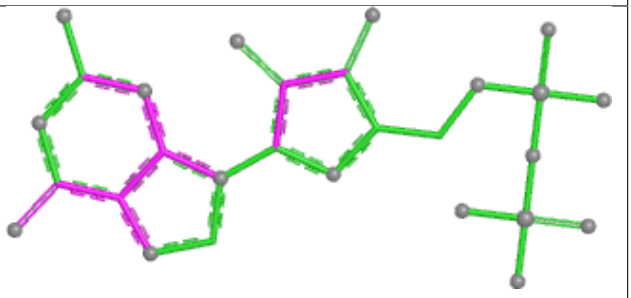


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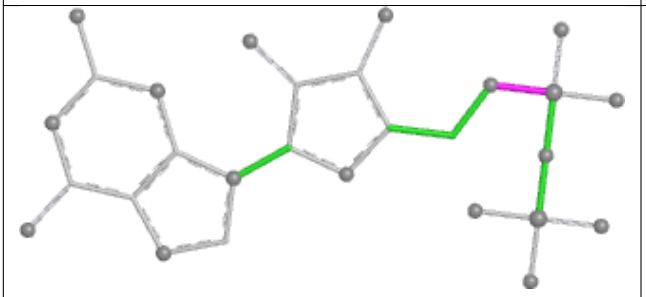
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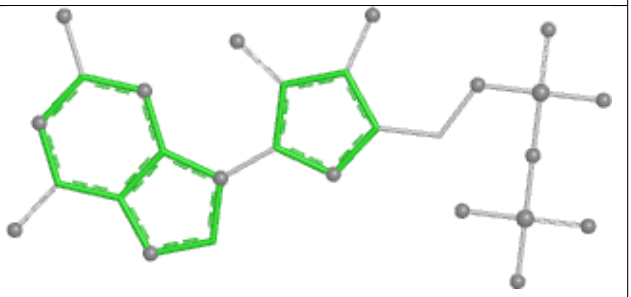
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Bond angles

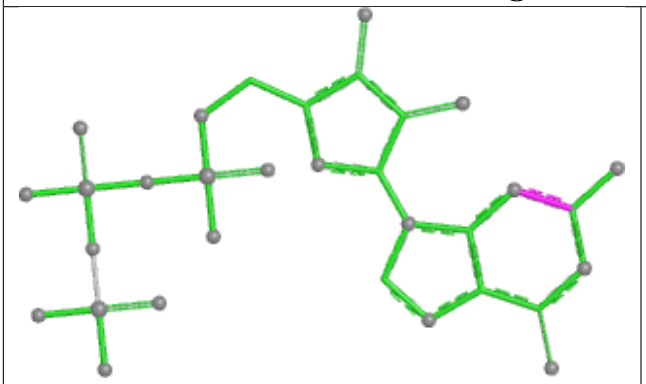


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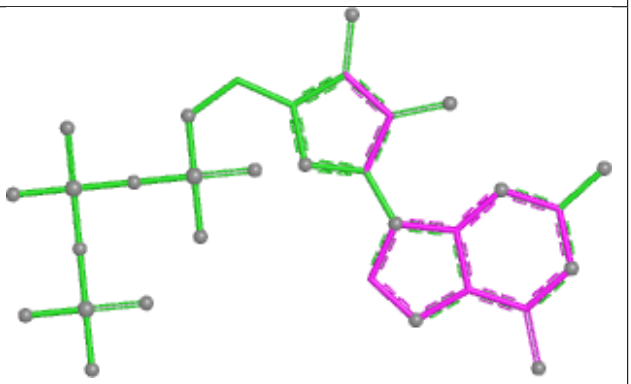


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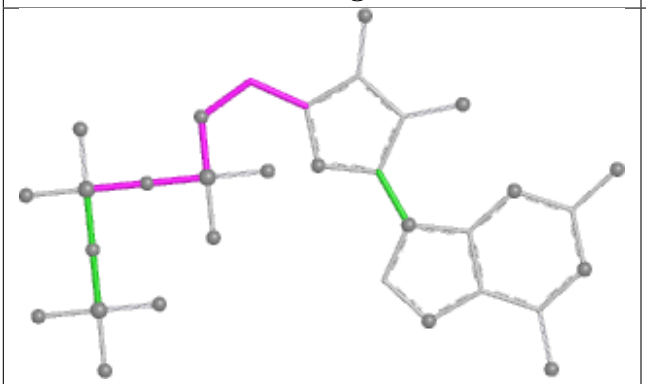
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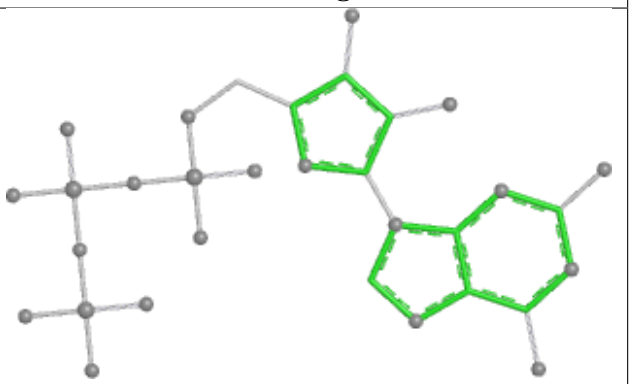
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Bond angles

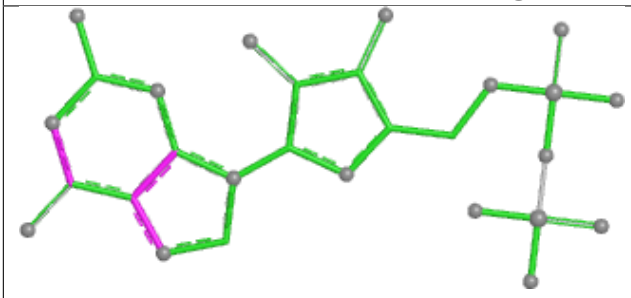


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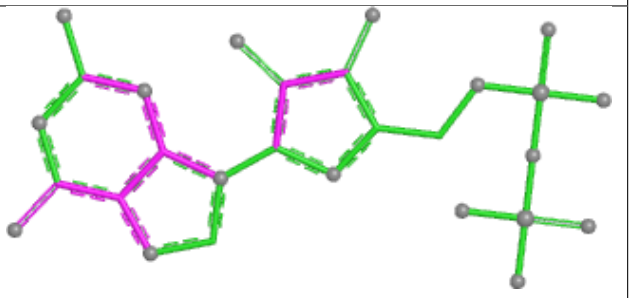


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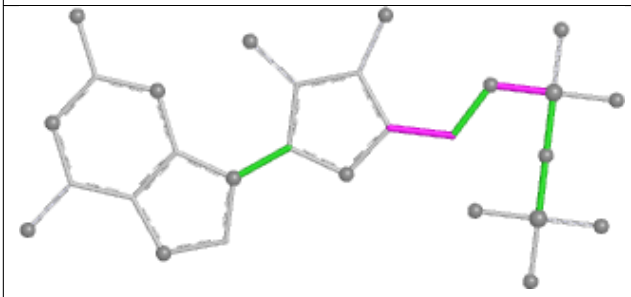
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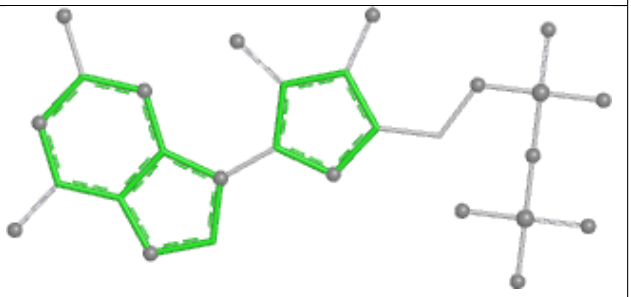
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Bond angles

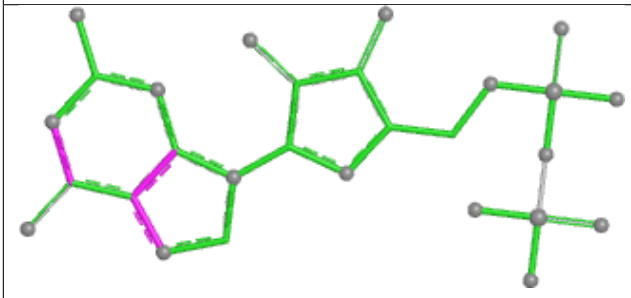


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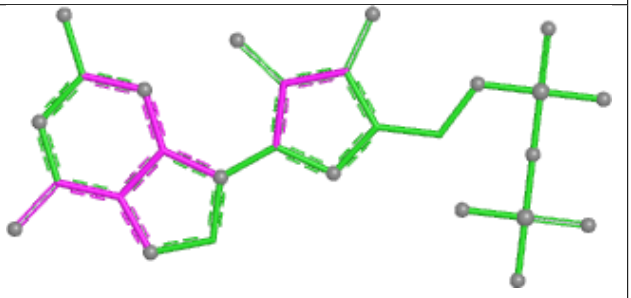


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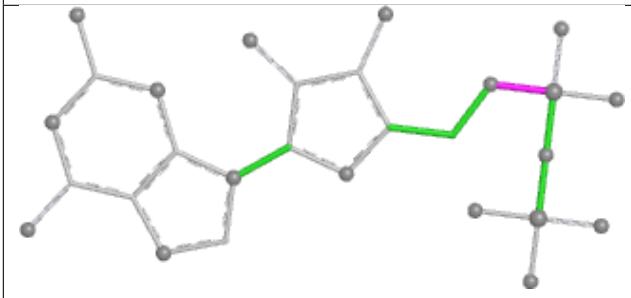
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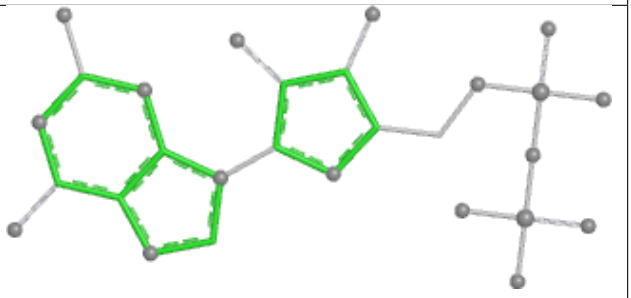
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Bond angles

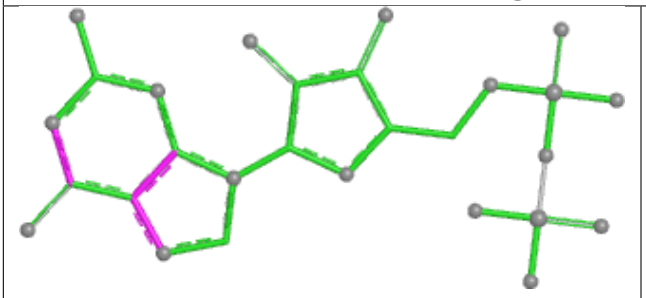


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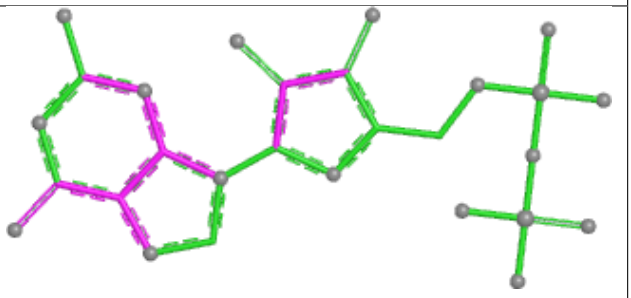


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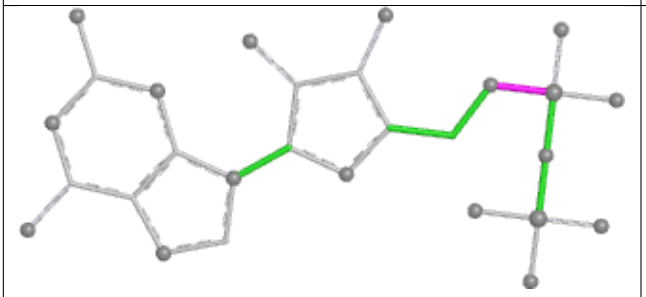
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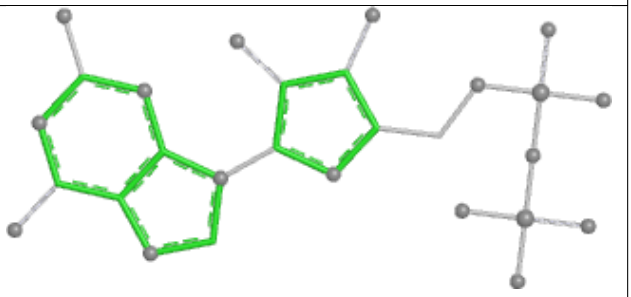
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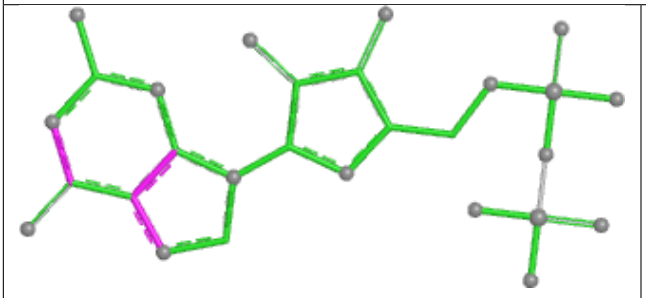


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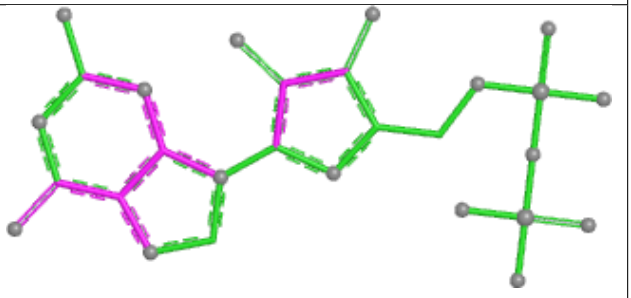


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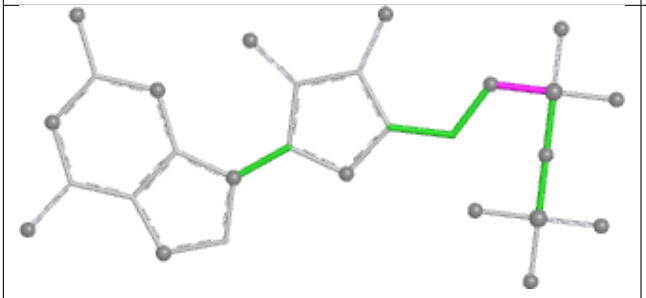
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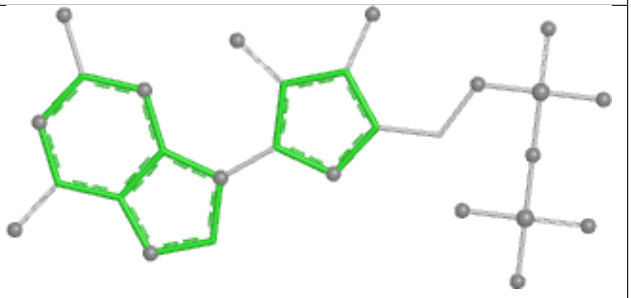
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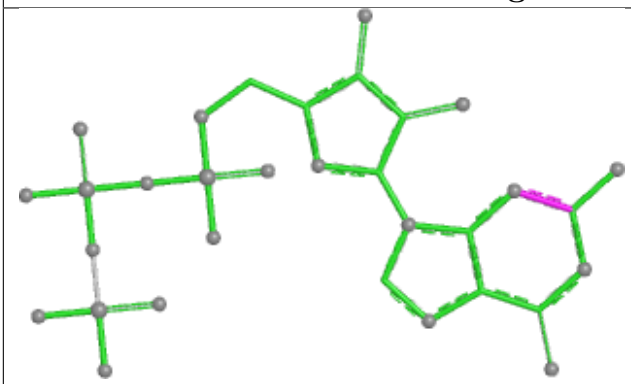


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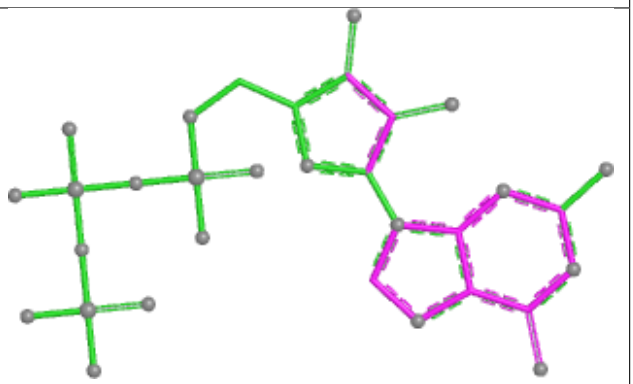


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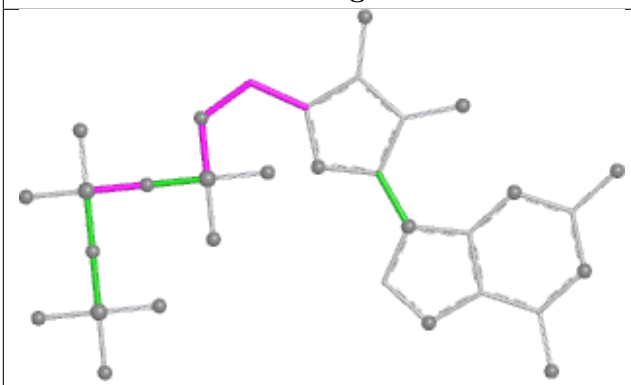
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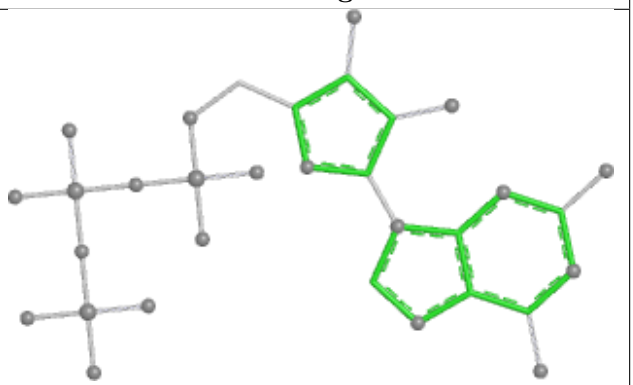
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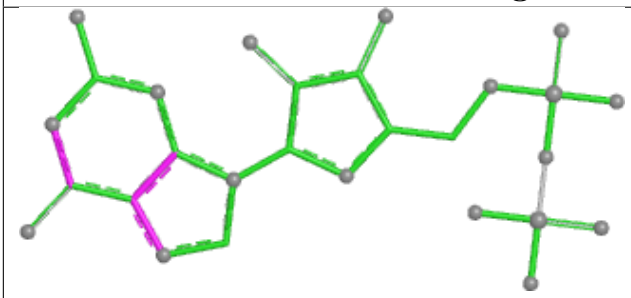


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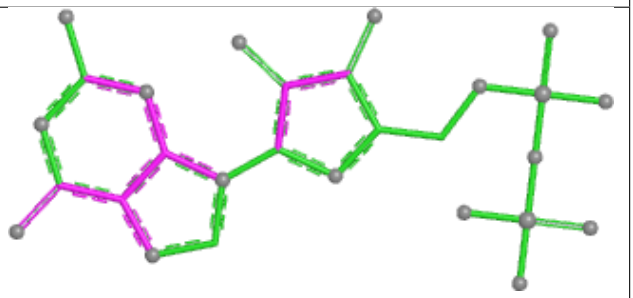


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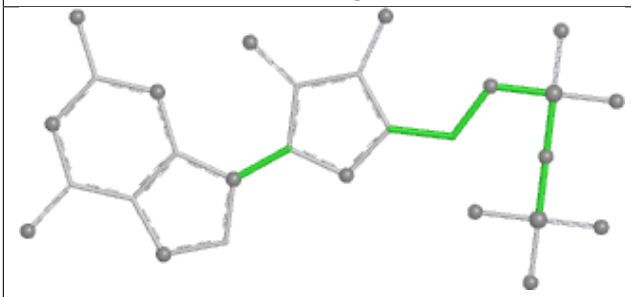
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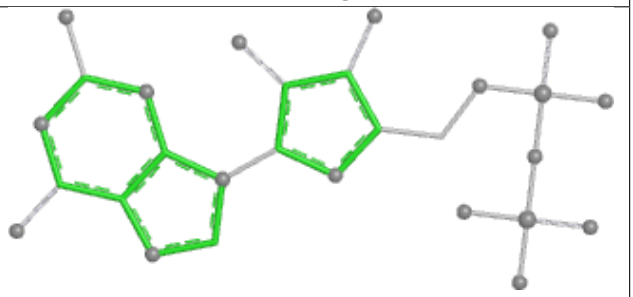
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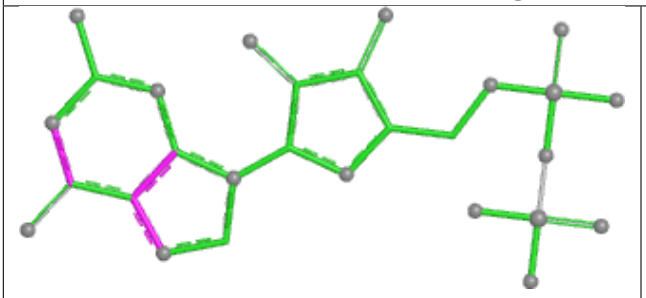


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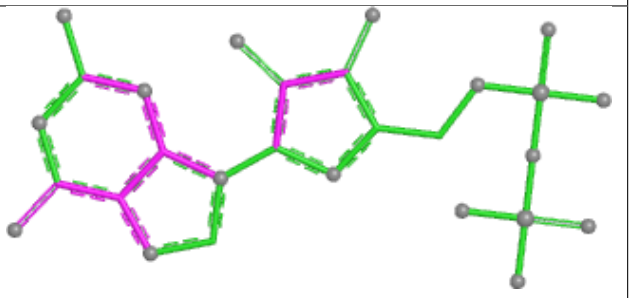


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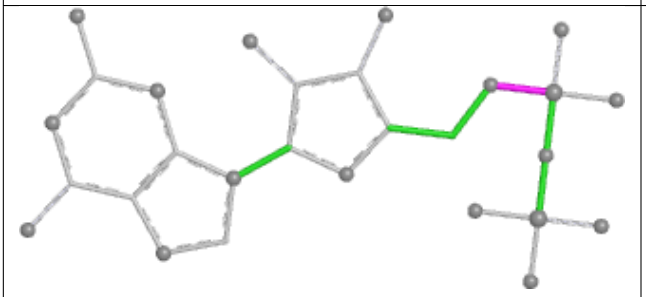
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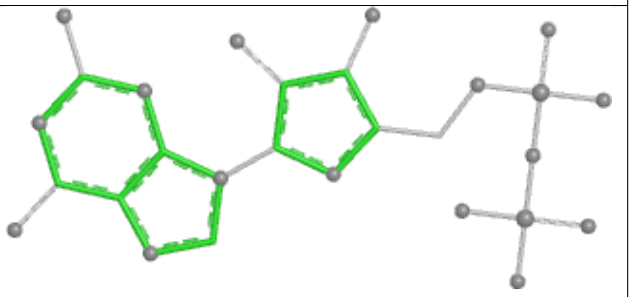
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Bond angles

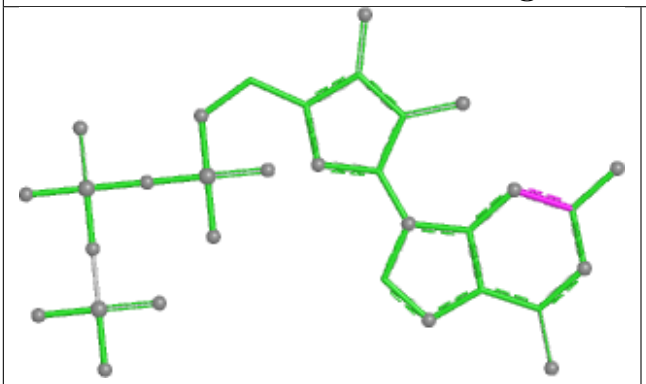


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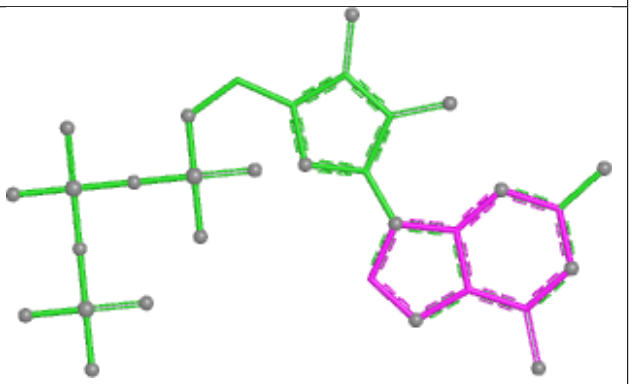


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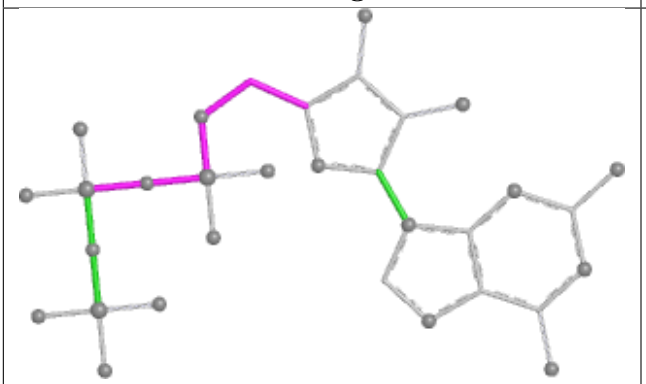
Ligand GTP LI 501



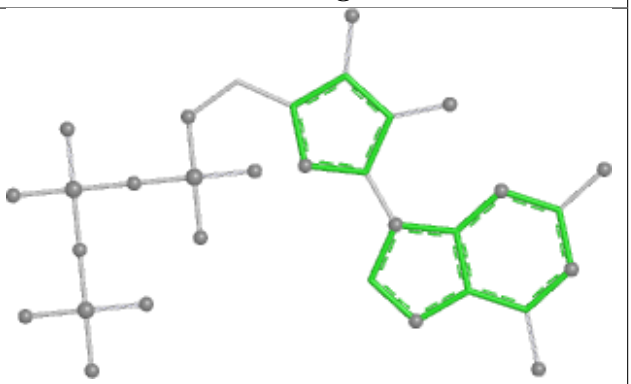
Bond lengths



Bond angles

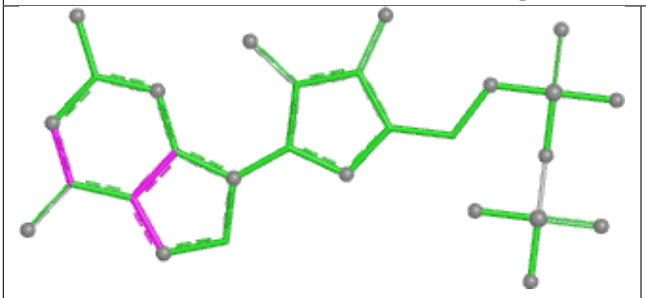


Torsions

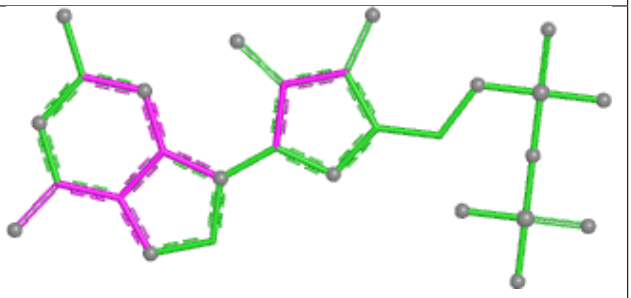


Rings

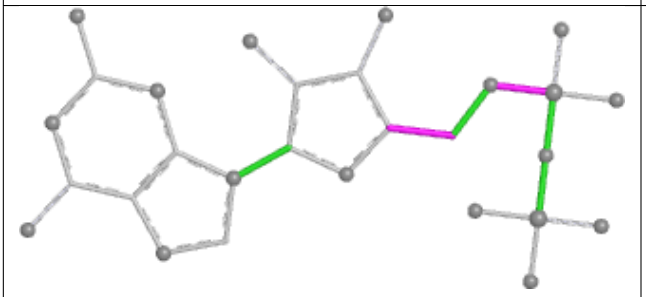
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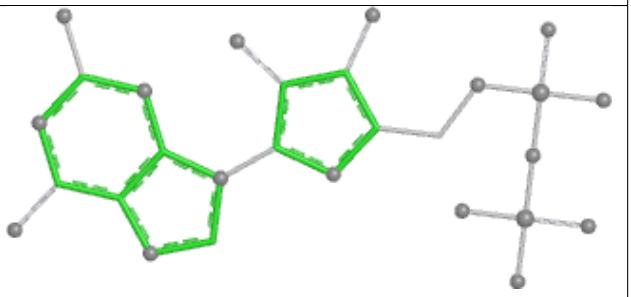
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Bond angles

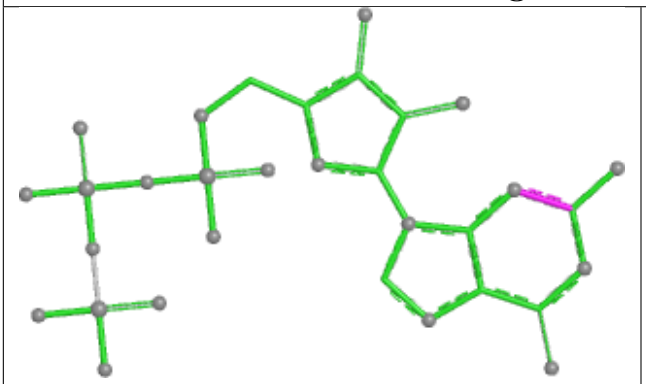


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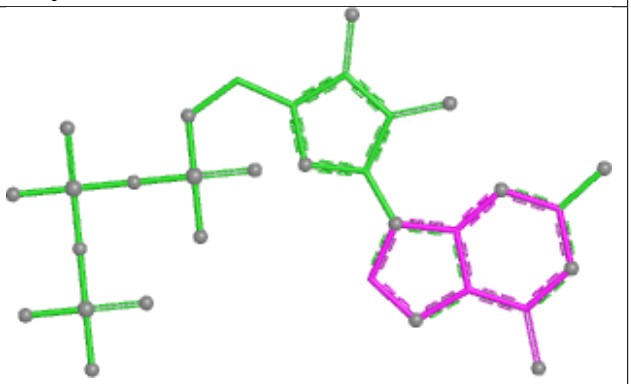


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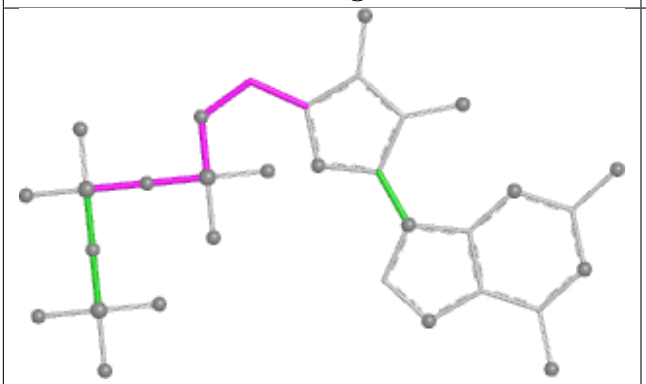
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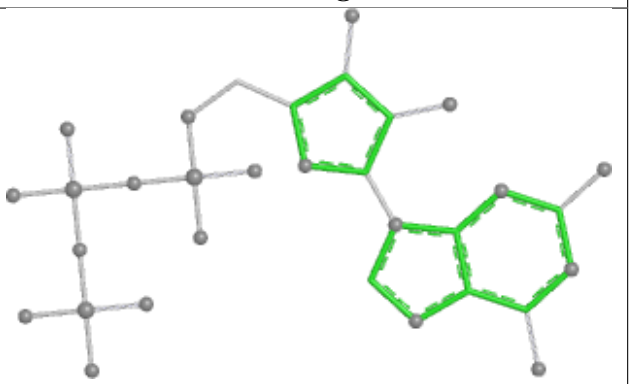
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Bond angles

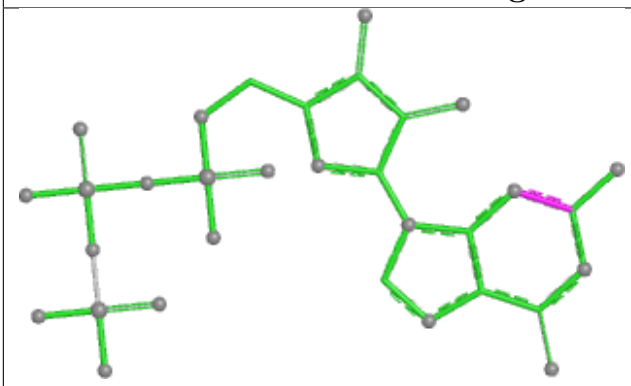


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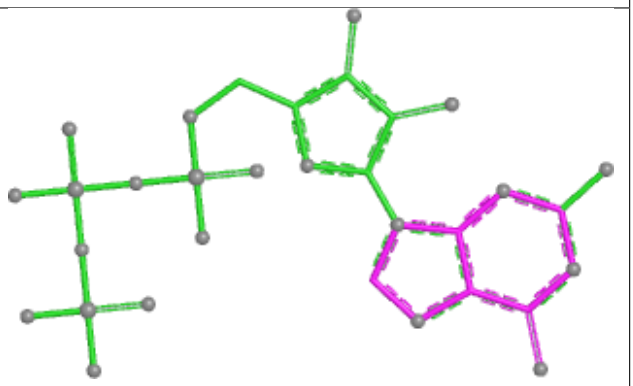


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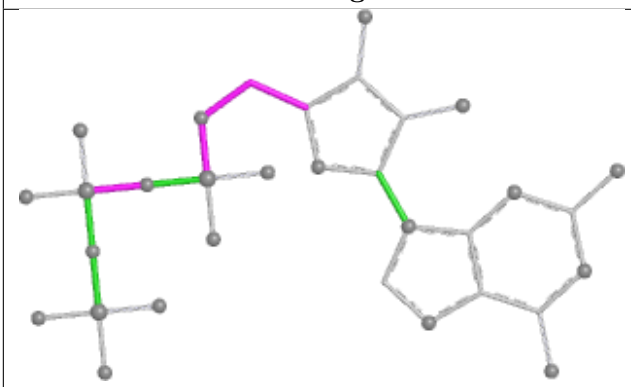
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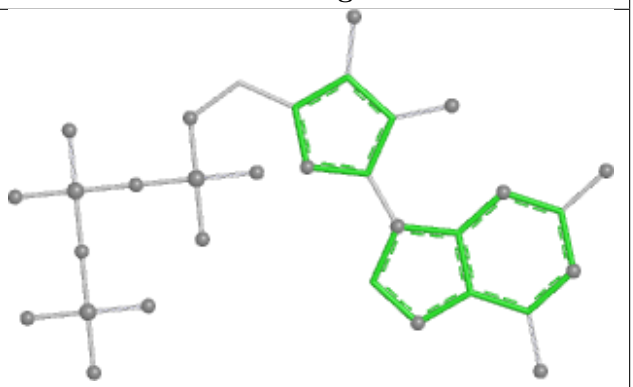
Bond lengths



Bond angles

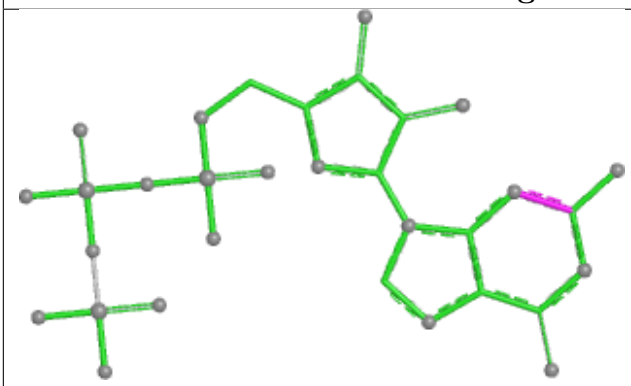


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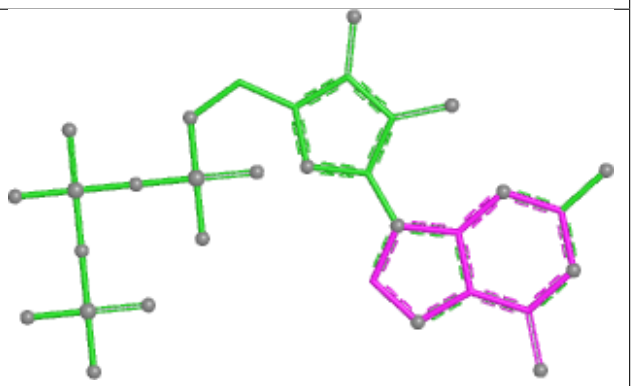


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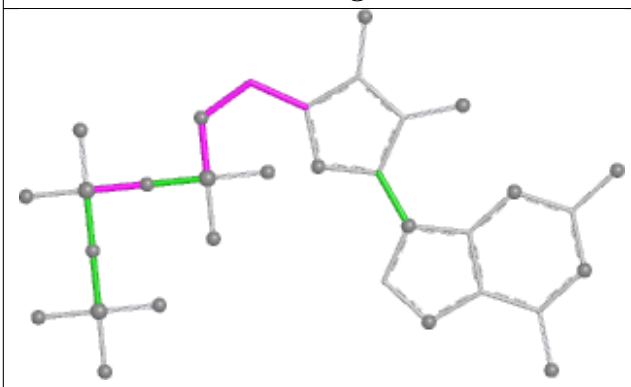
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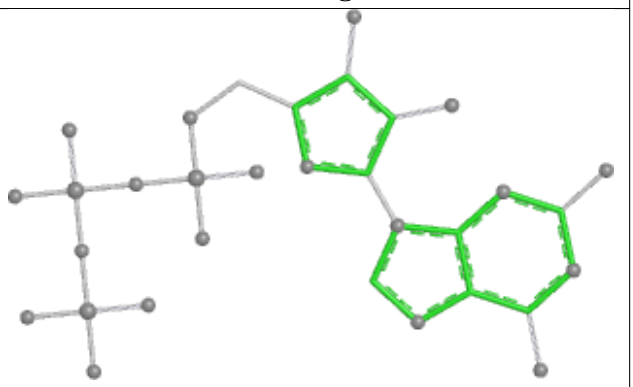
Bond lengths



Bond angles

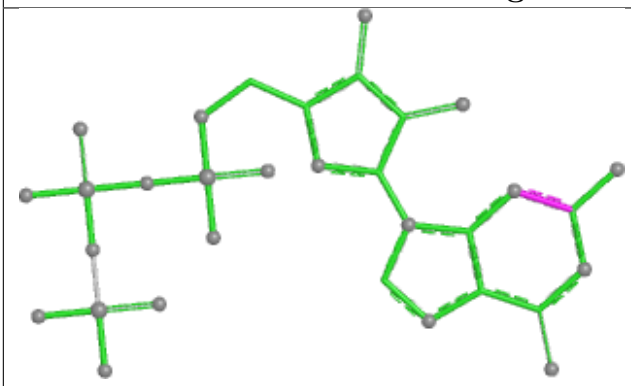


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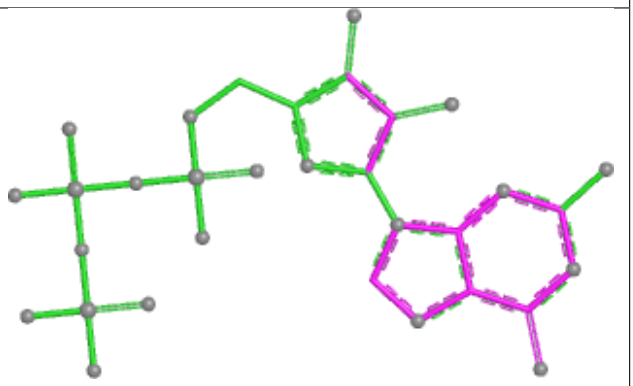


Rings

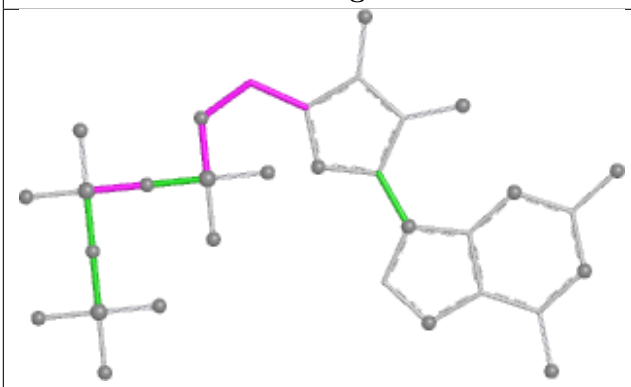
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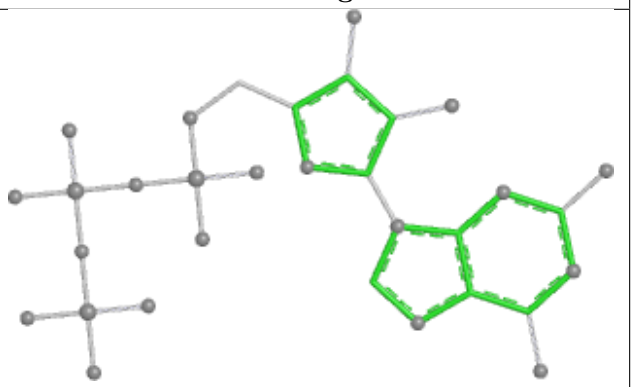
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Bond angles

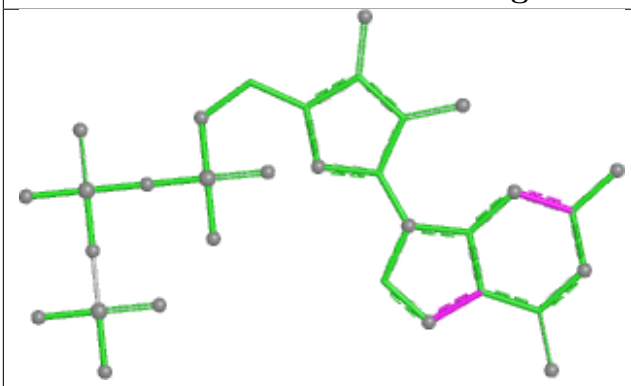


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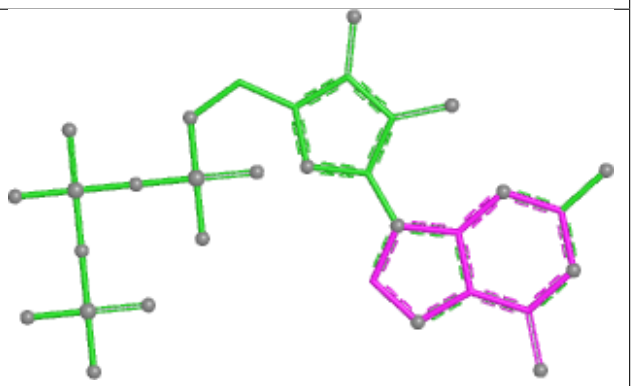


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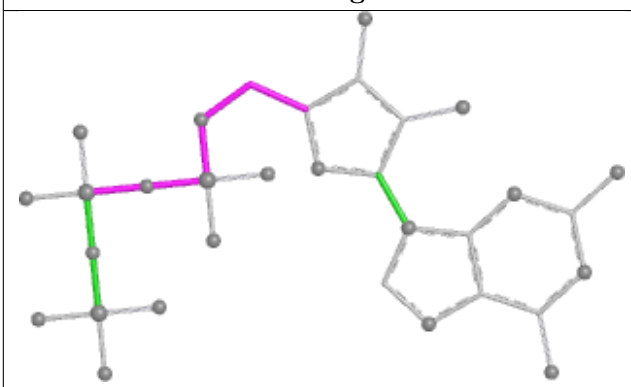
Ligand GTP LK 501



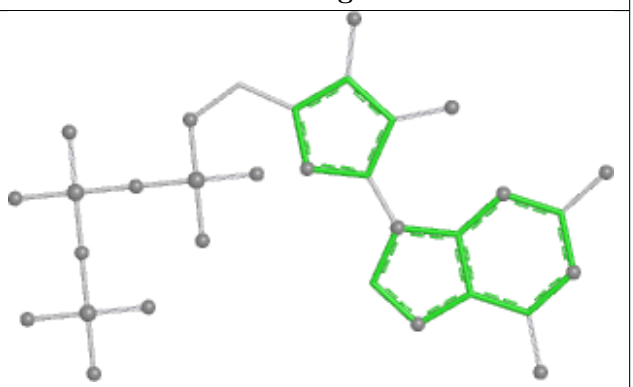
Bond lengths



Bond angles

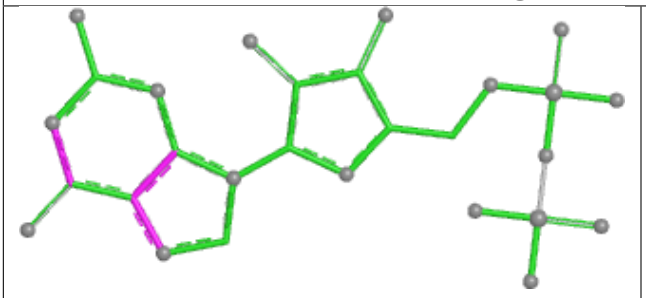


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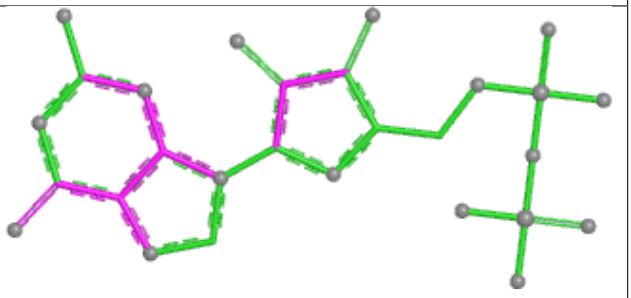


Rings

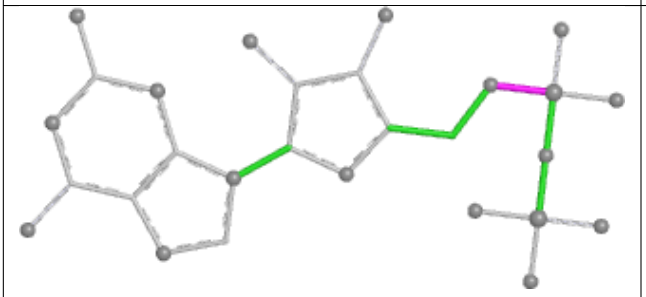
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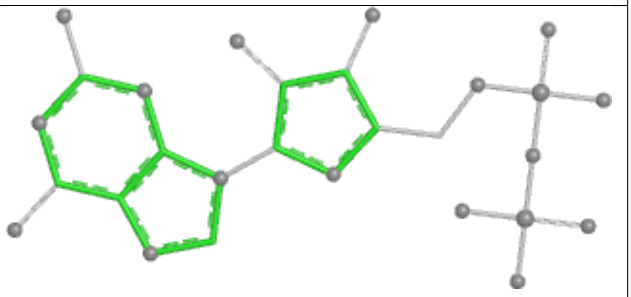
Bond lengths



Bond angles

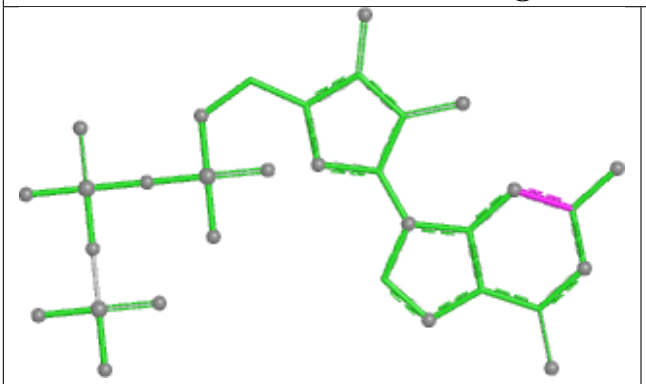


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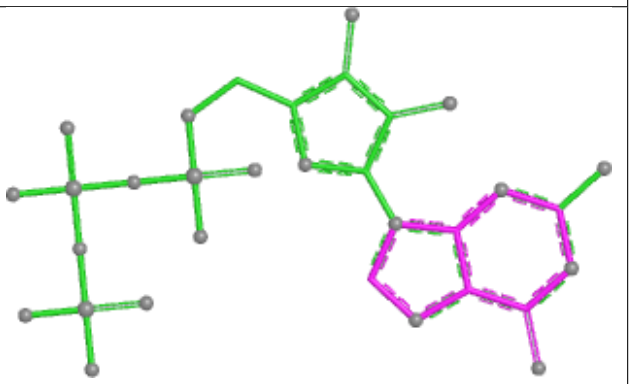


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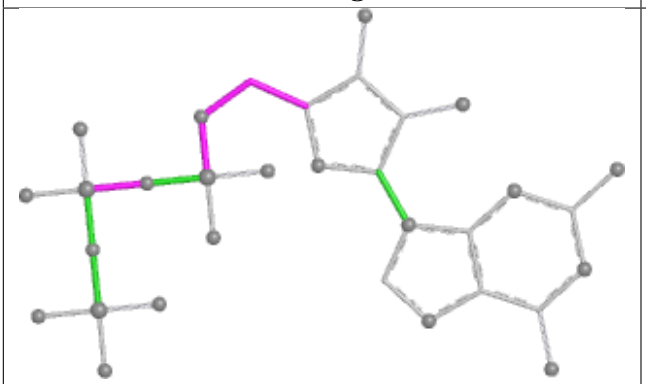
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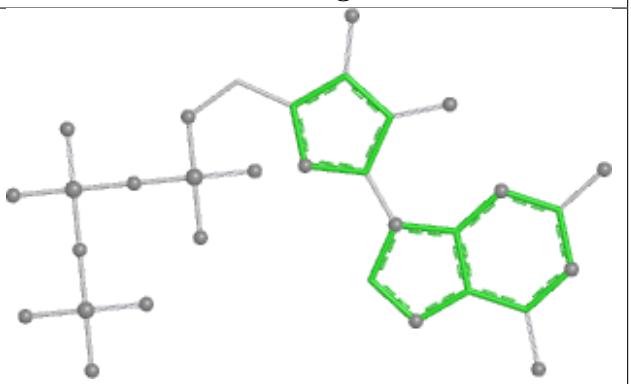
Bond lengths



Bond angles

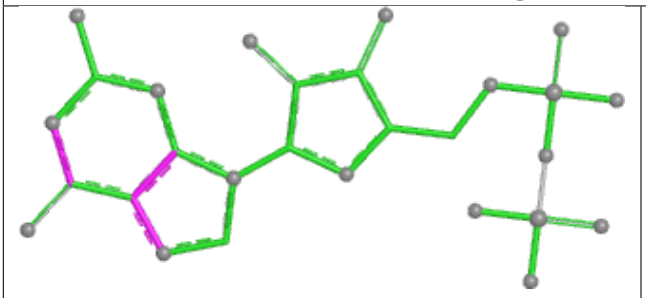


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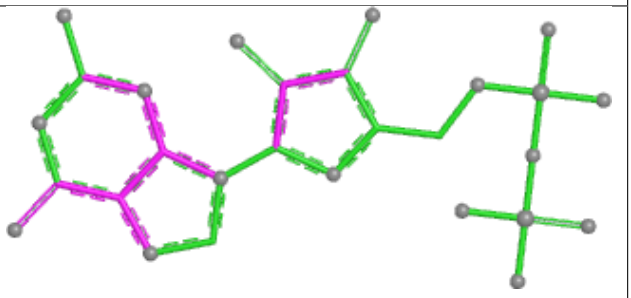


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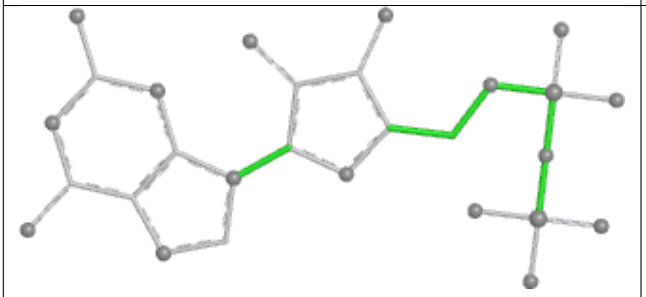
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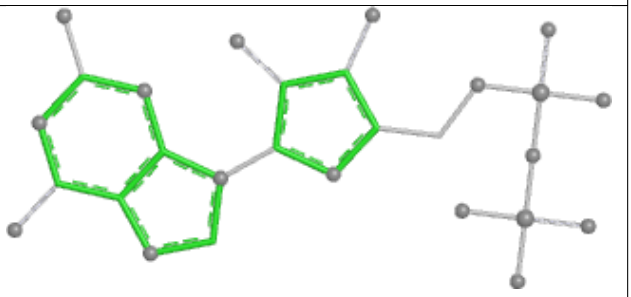
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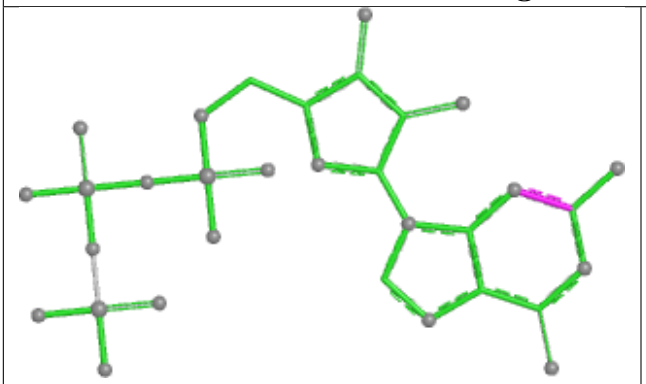


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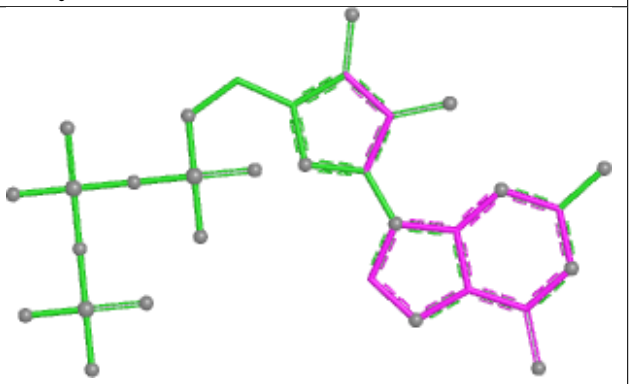


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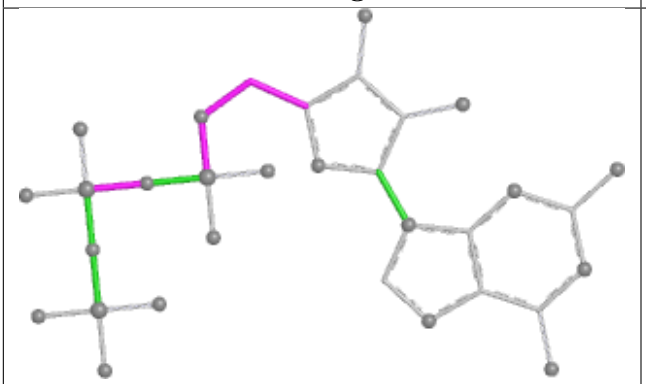
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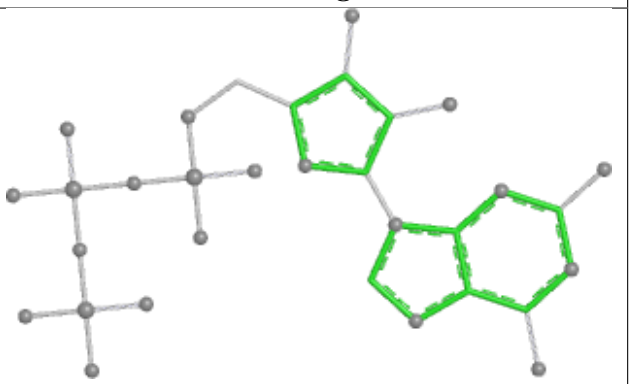
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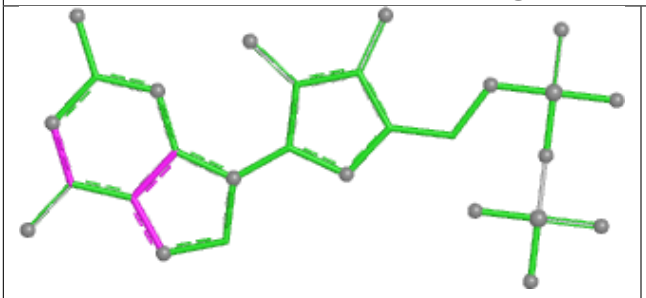


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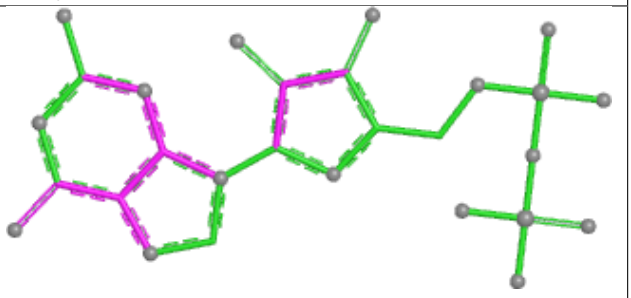


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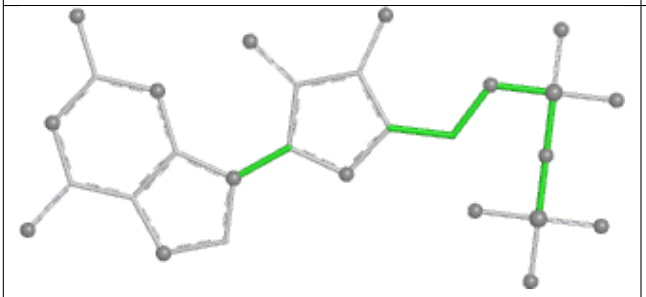
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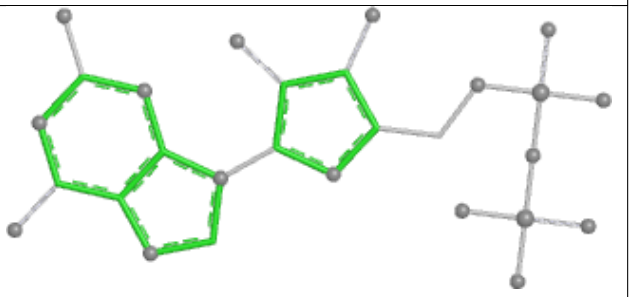
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Bond angles

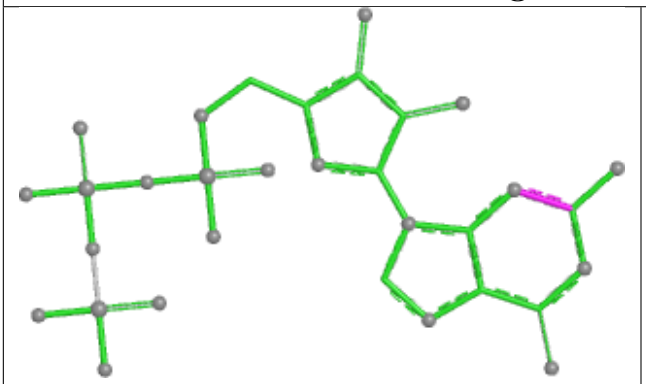


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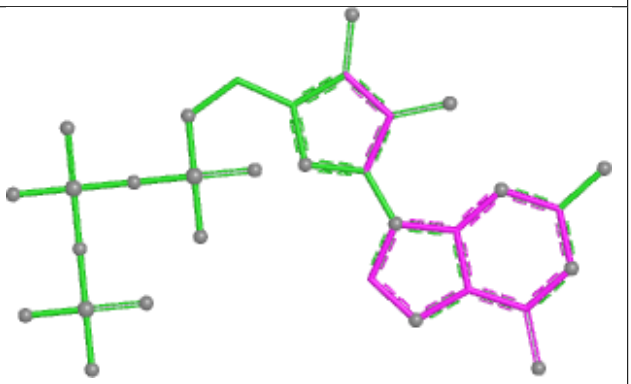


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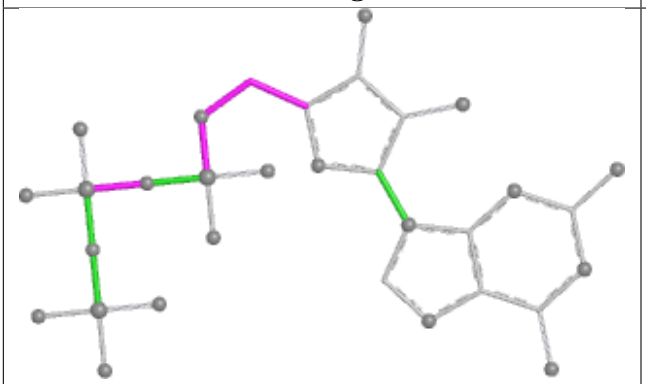
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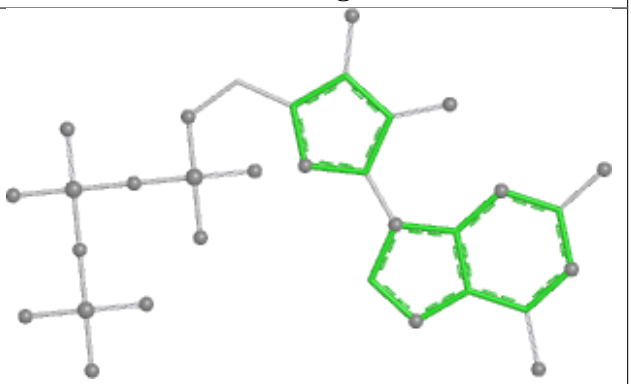
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Bond angles

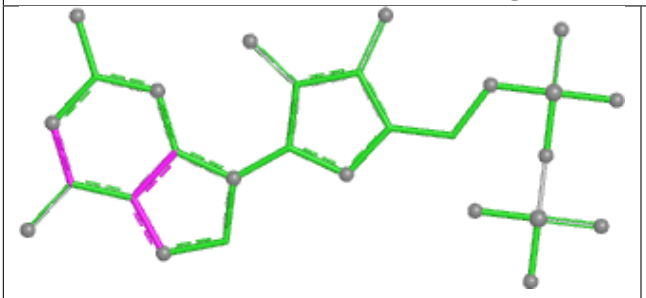


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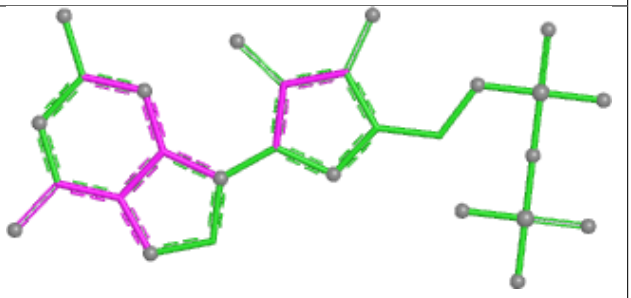


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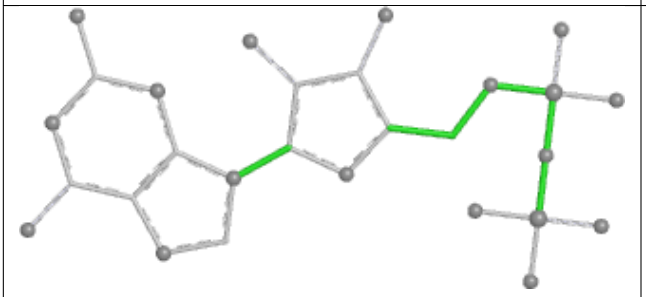
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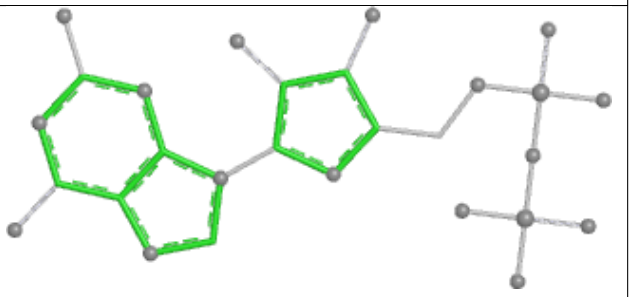
Bond lengths



Bond angles

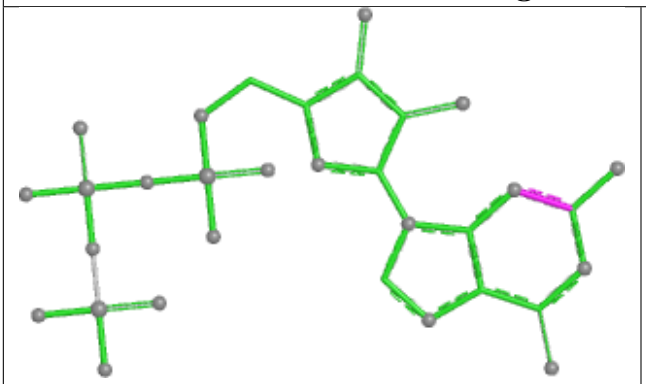


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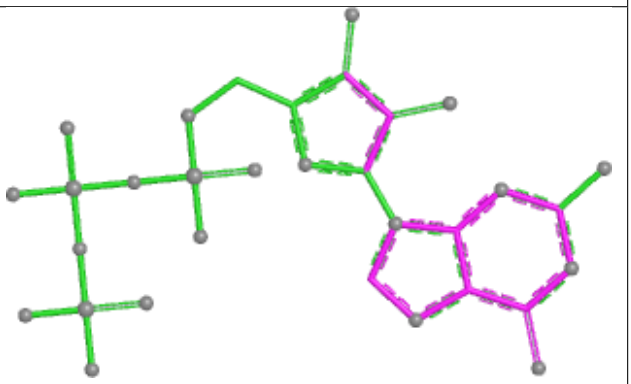


Rings

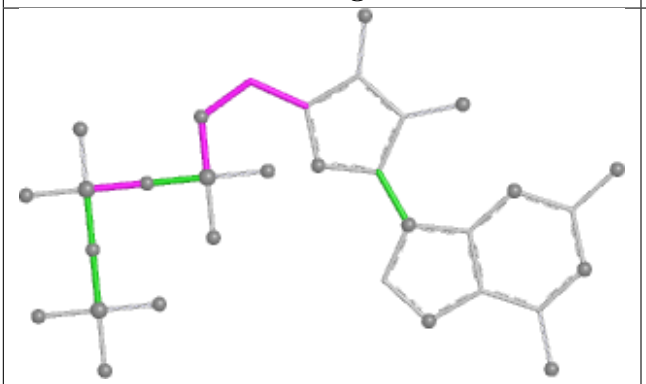
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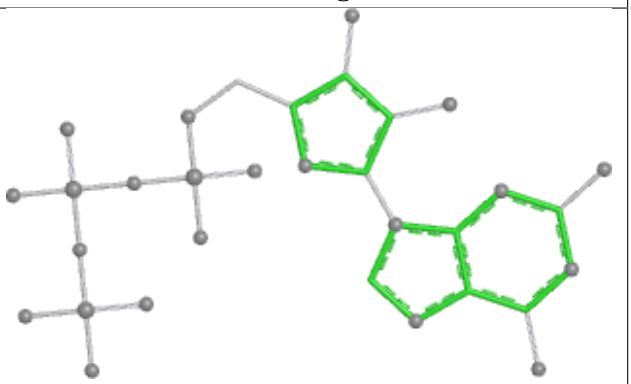
Bond lengths



Bond angles

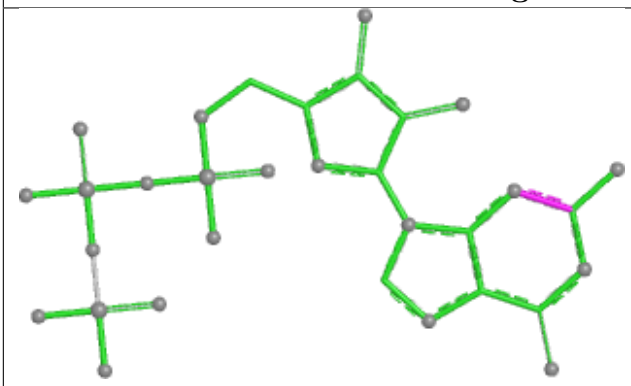


Torsions

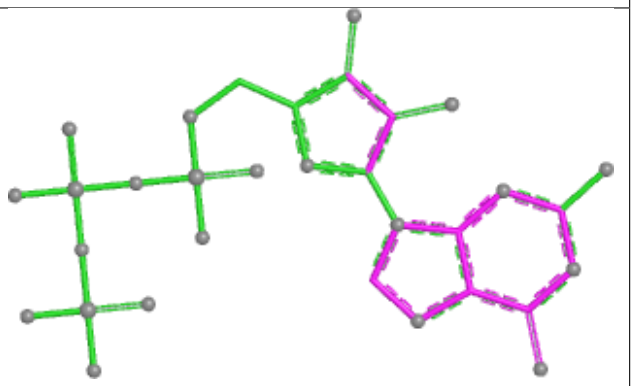


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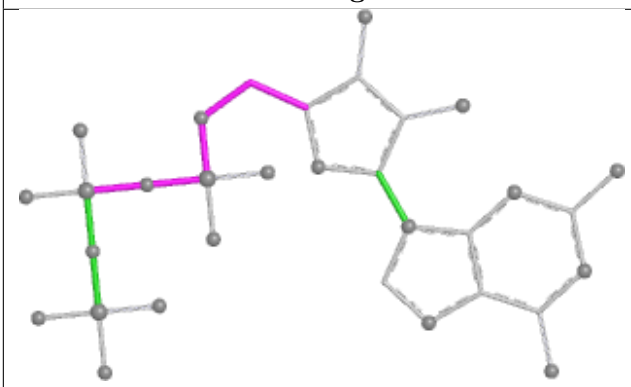
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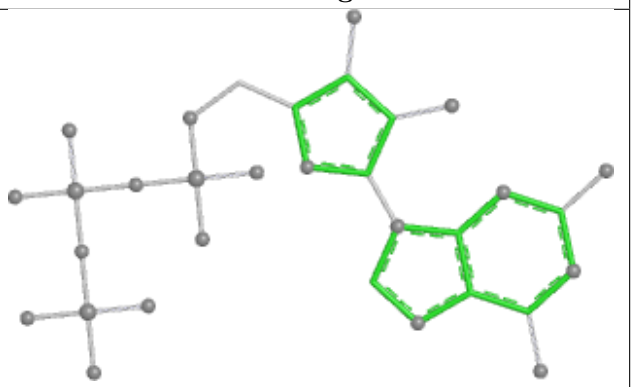
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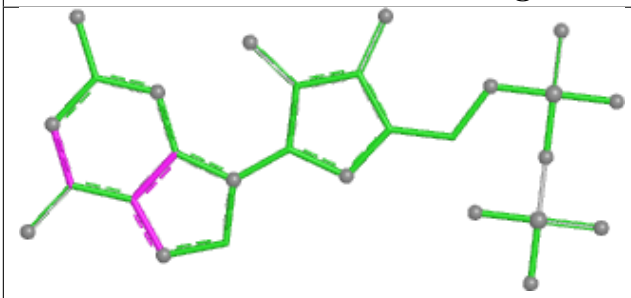


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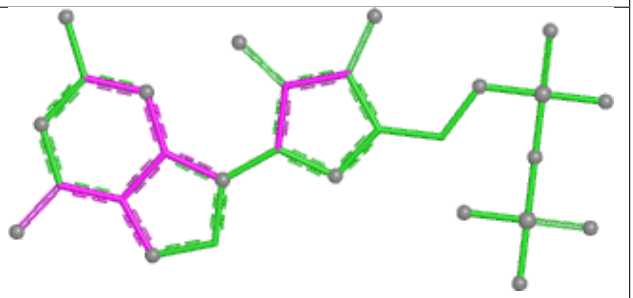


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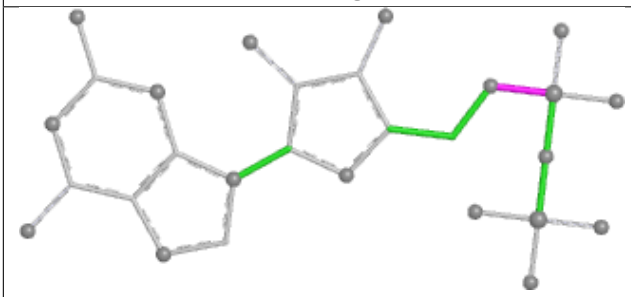
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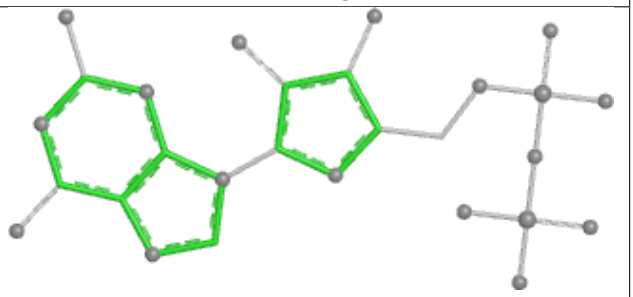
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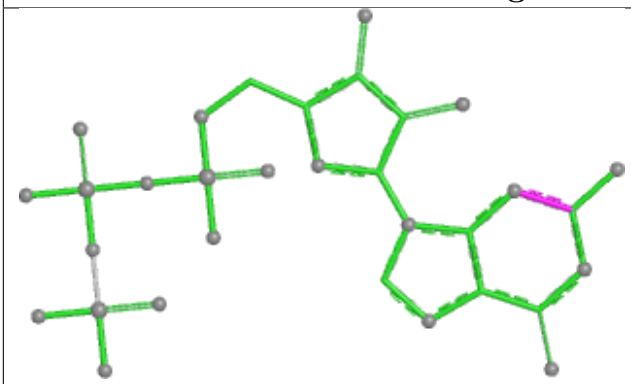


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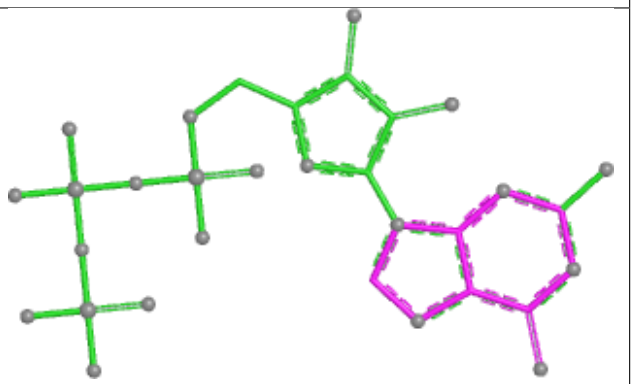


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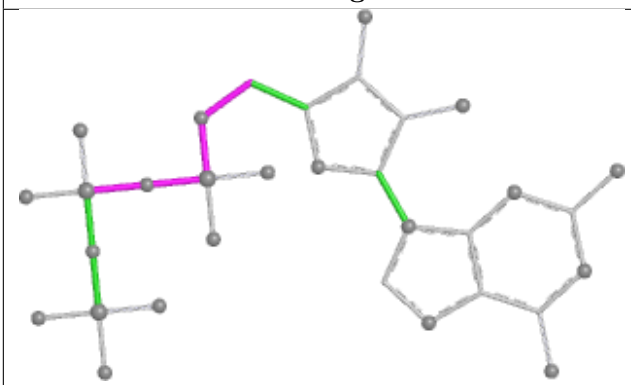
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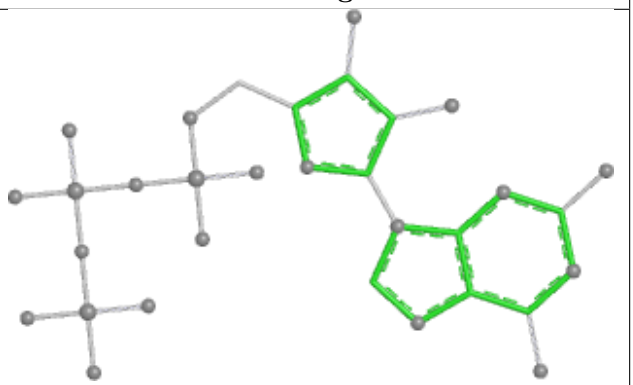
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Bond angles

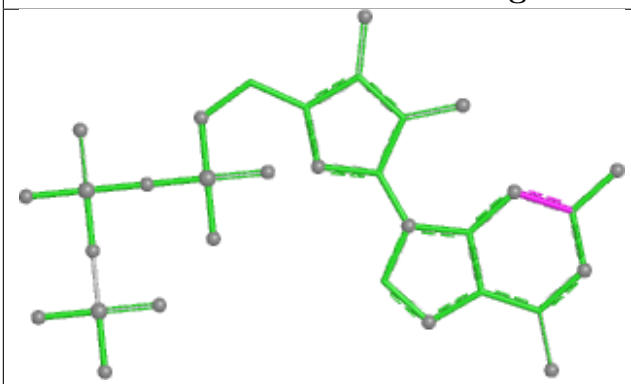


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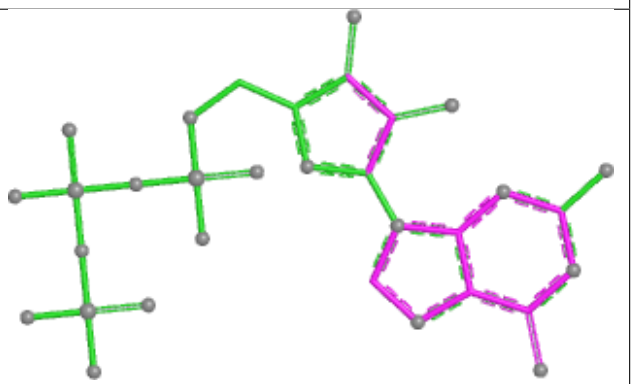


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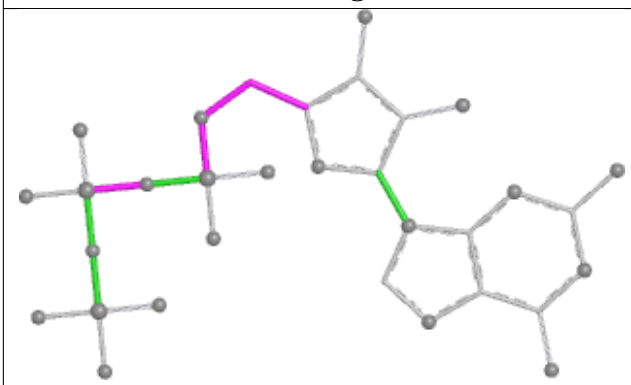
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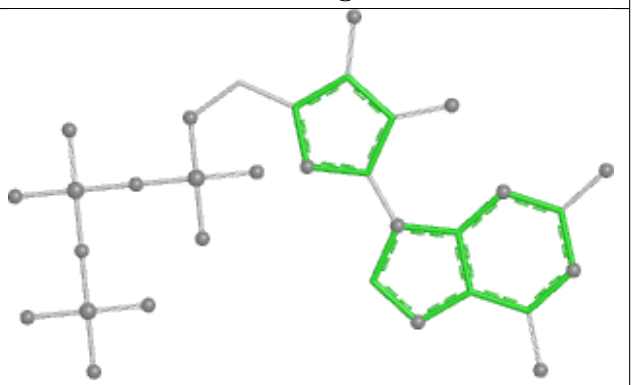
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Bond angles

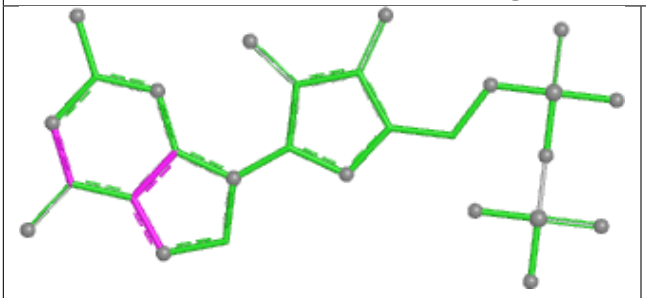


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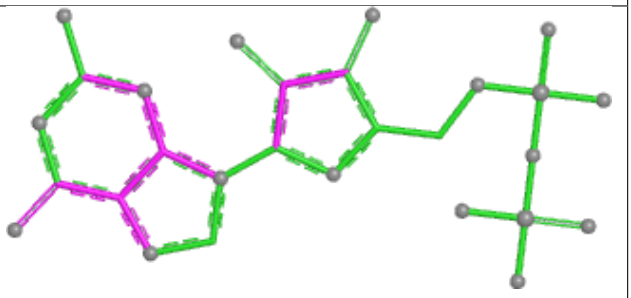


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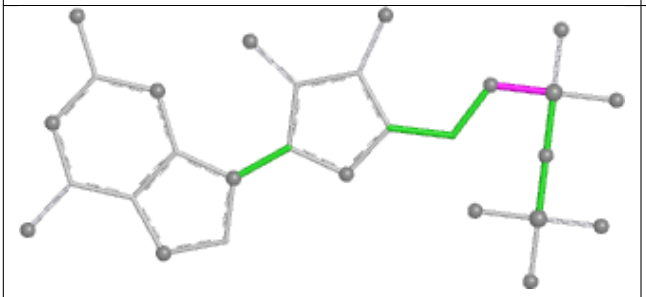
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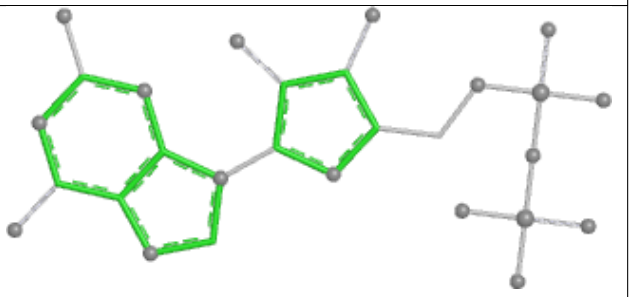
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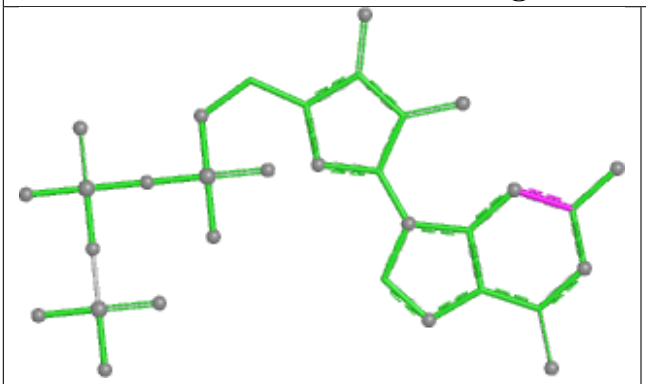


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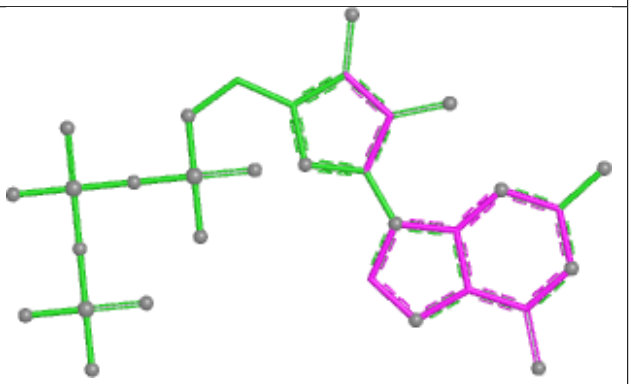


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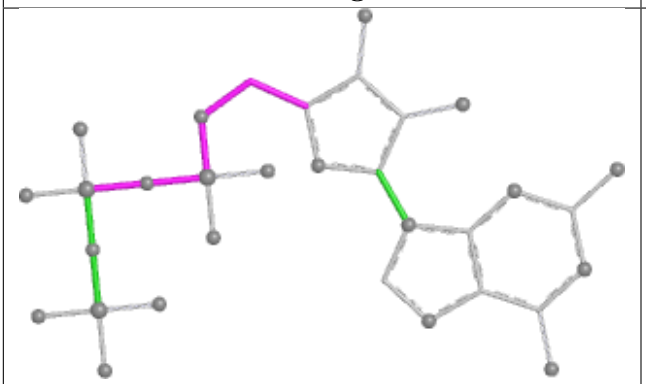
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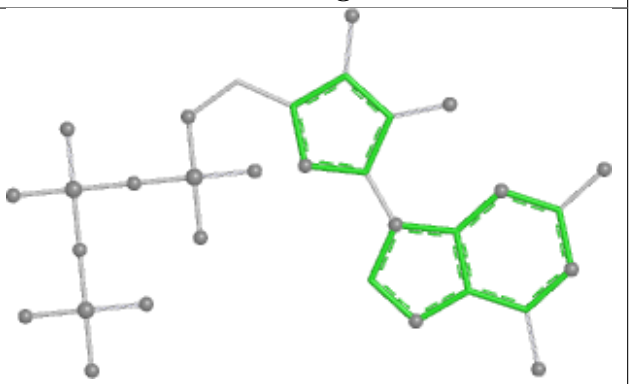
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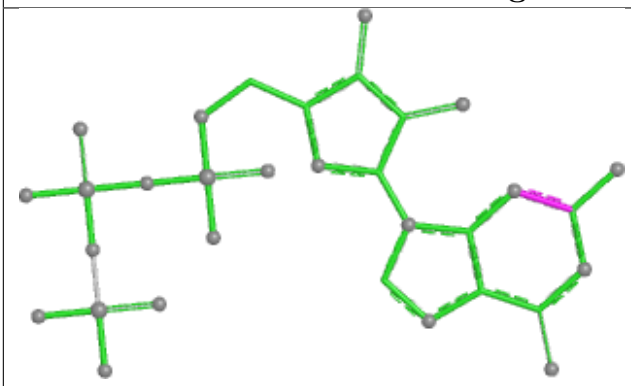


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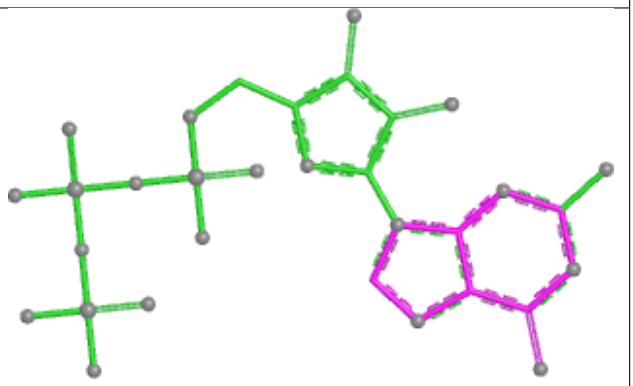


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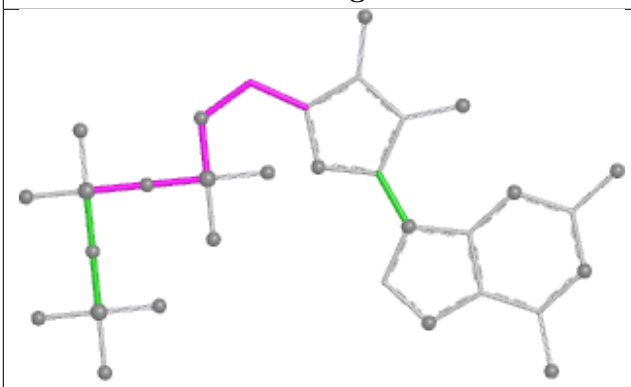
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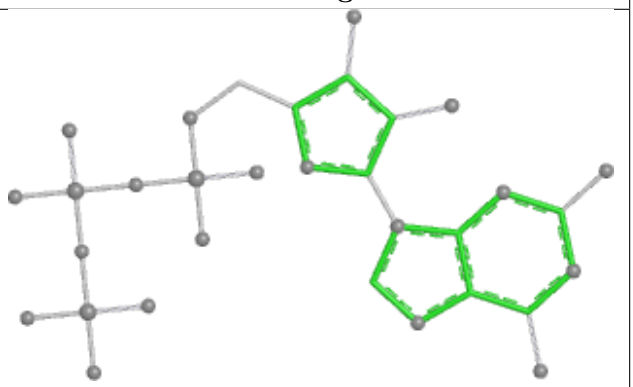
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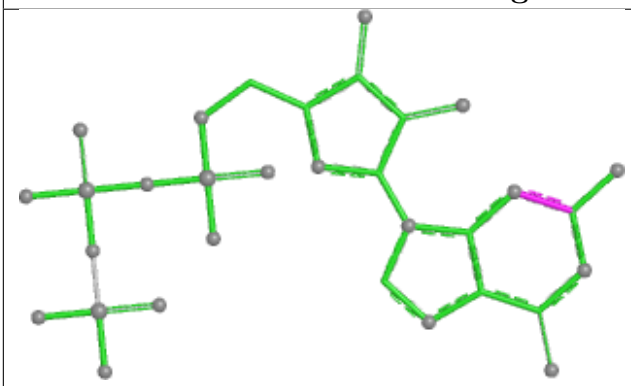


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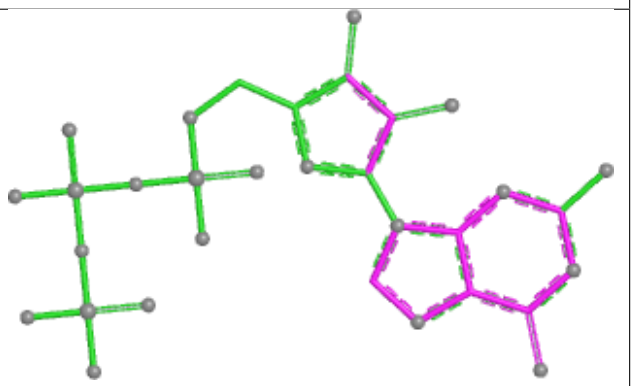


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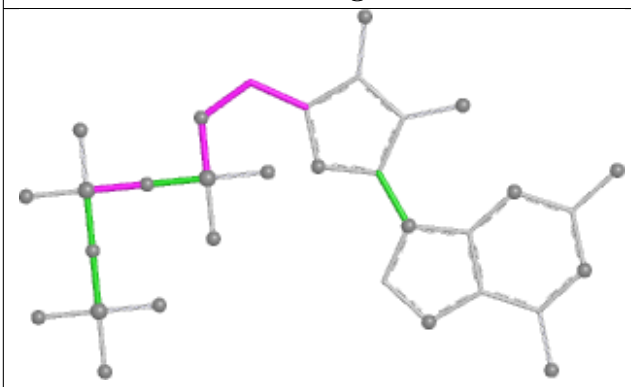
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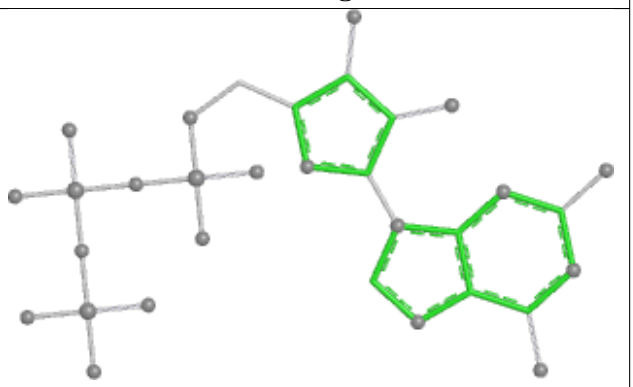
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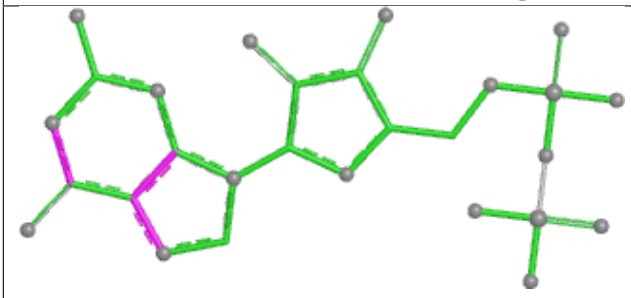


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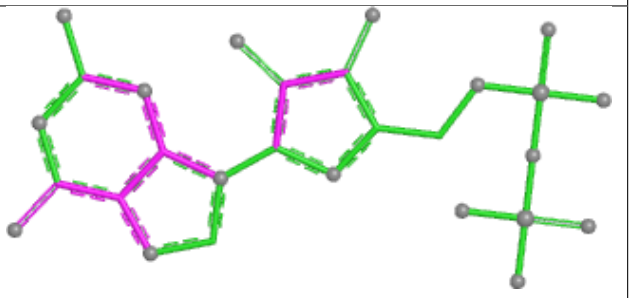


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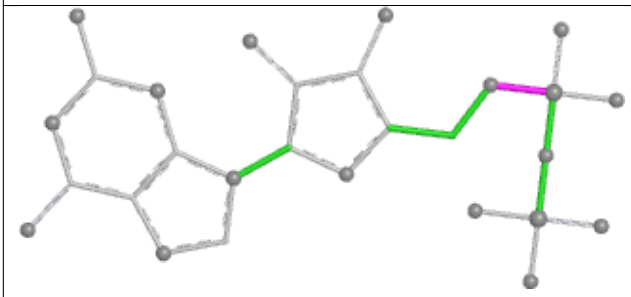
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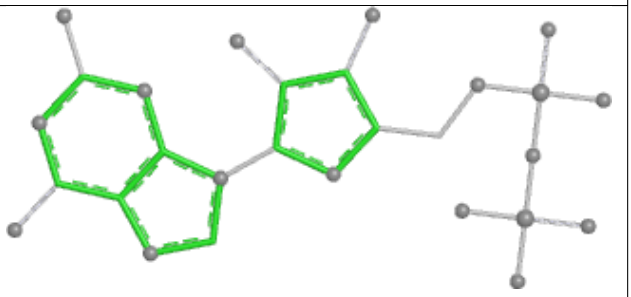
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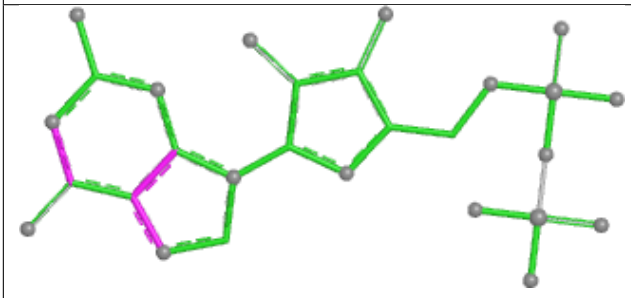


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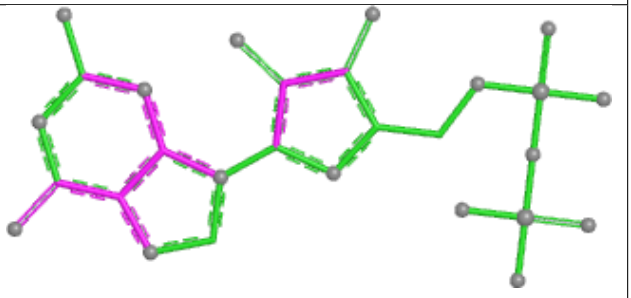


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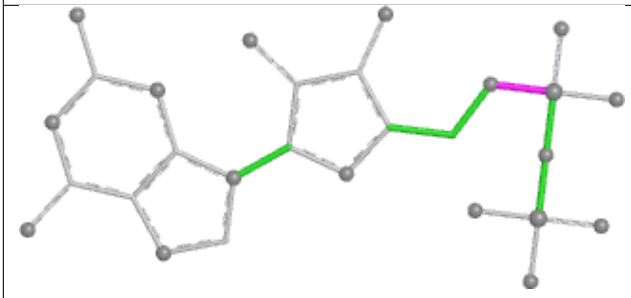
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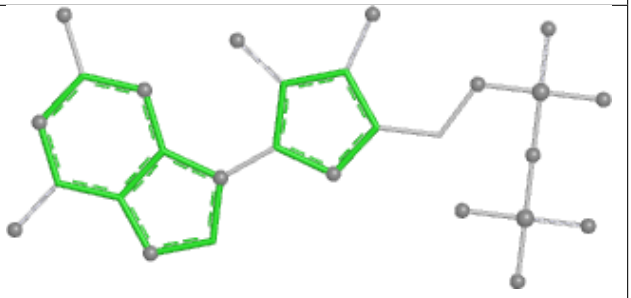
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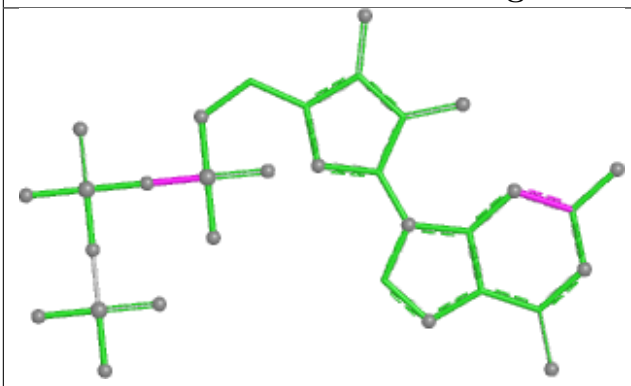


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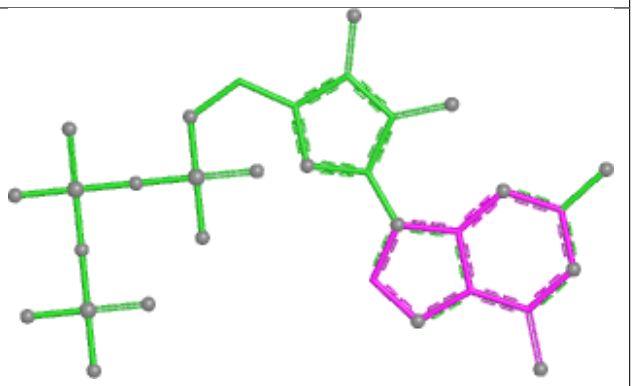


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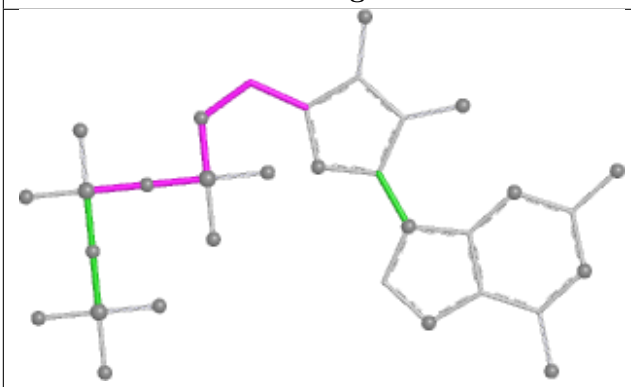
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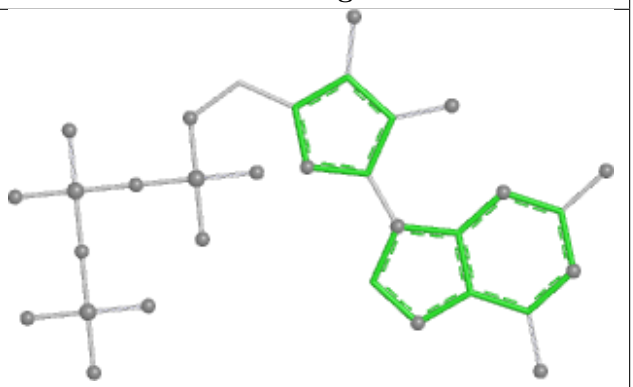
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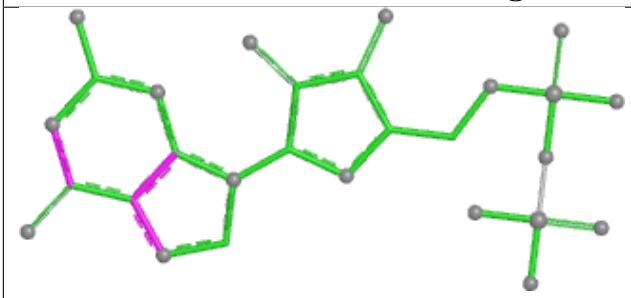


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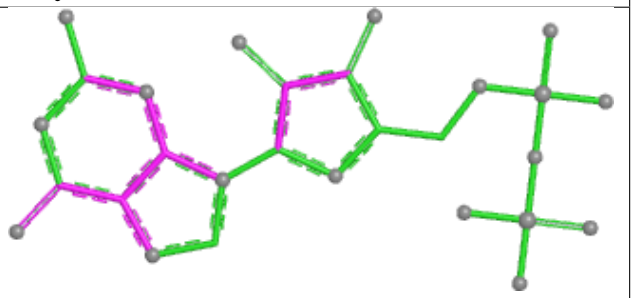


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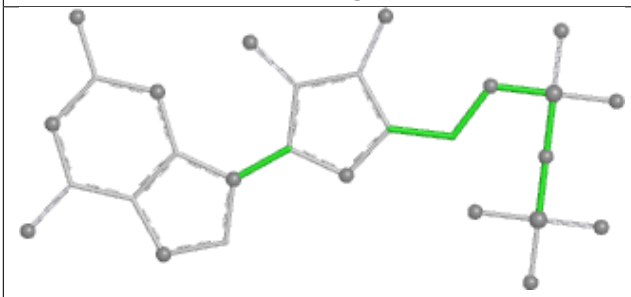
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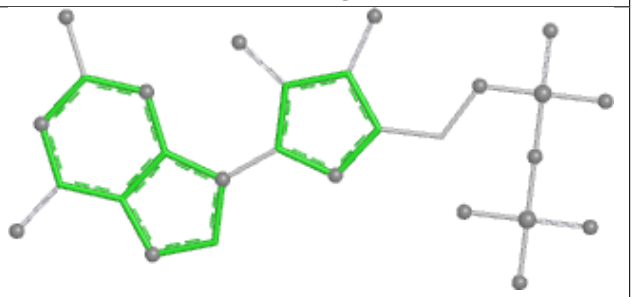
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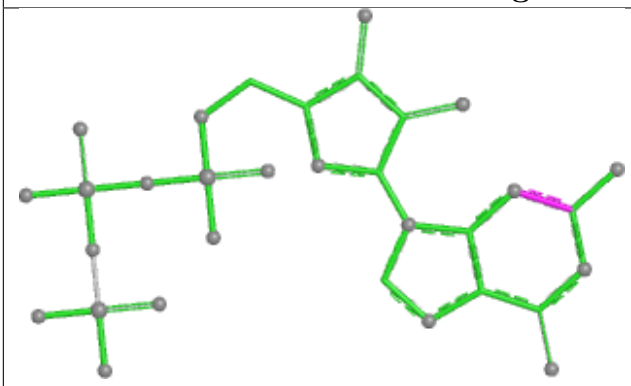


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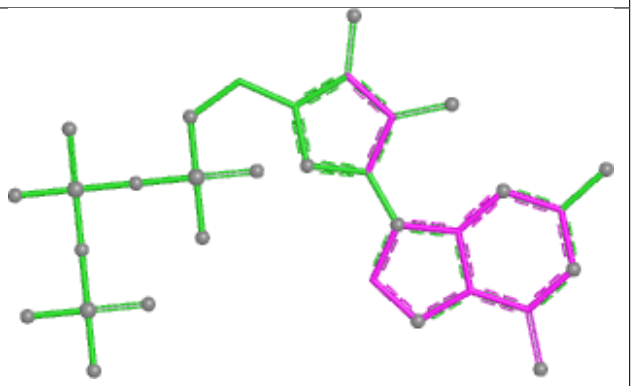


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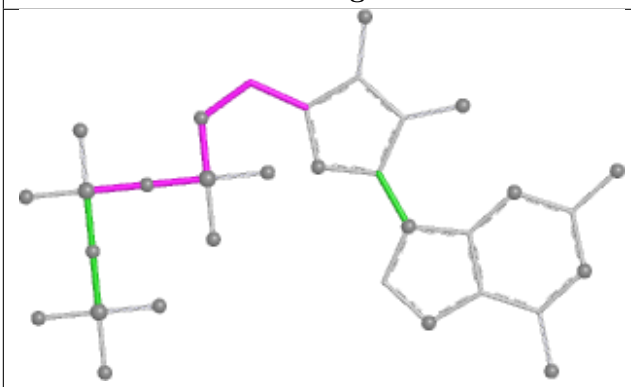
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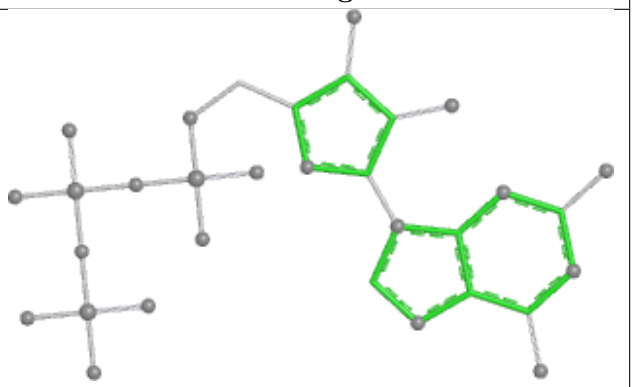
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Bond angles

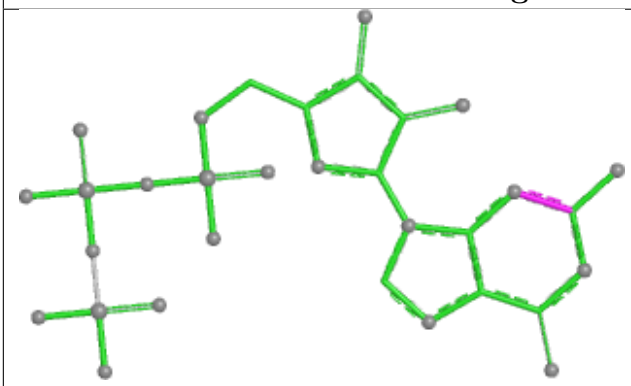


Torsions

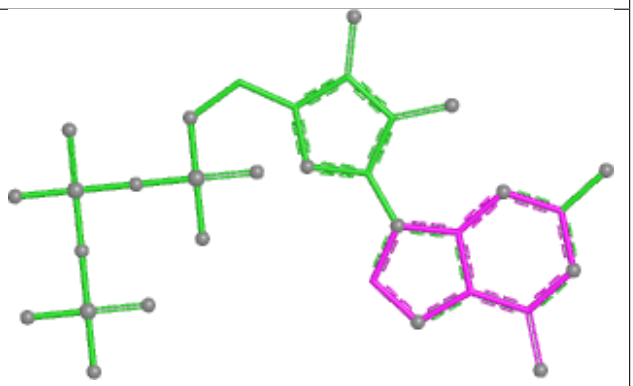


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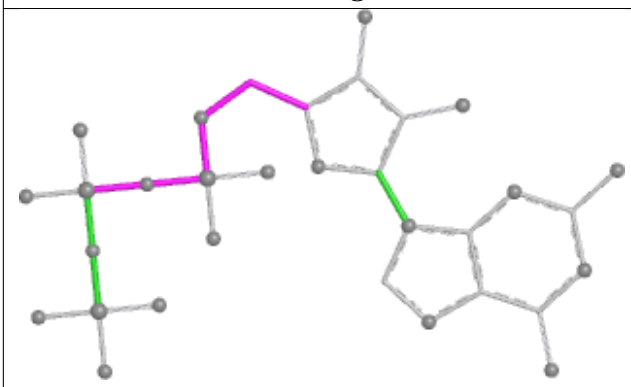
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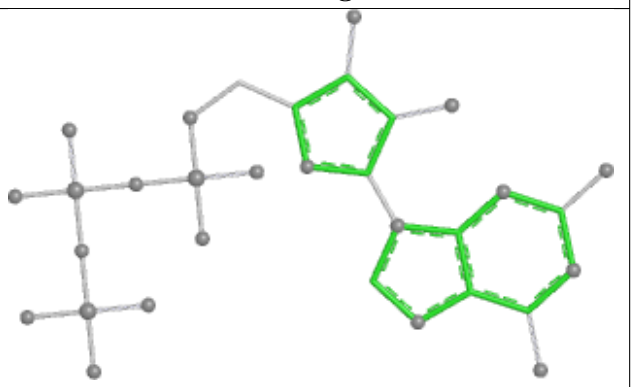
Bond lengths



Bond angles

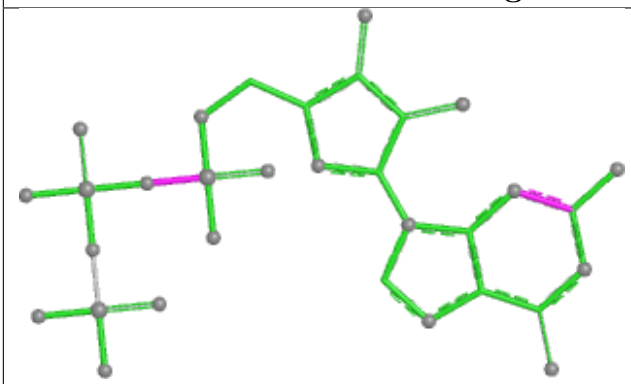


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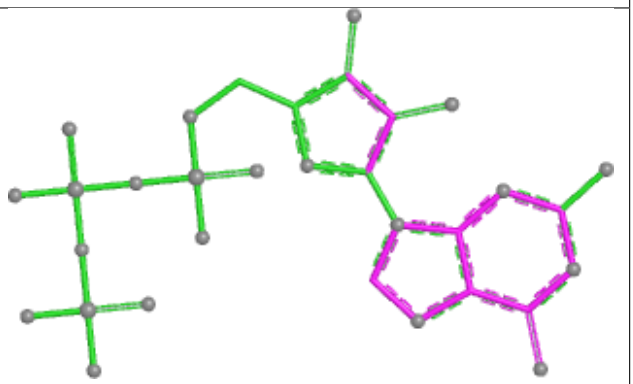


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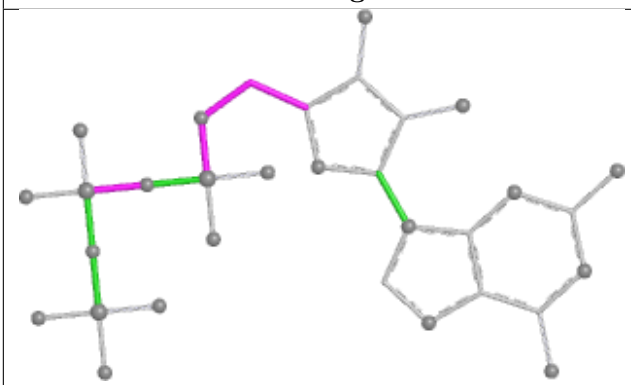
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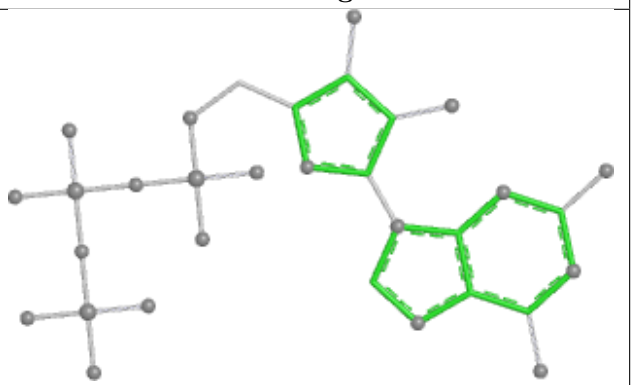
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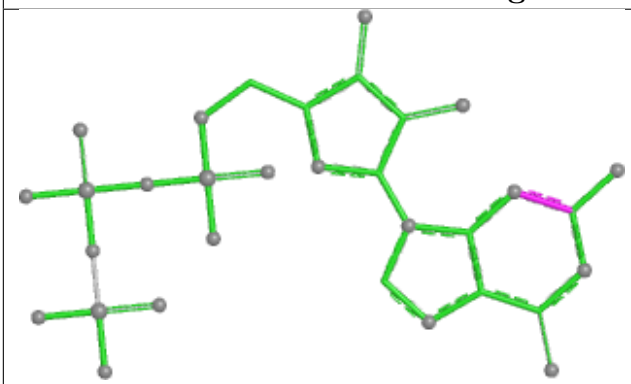


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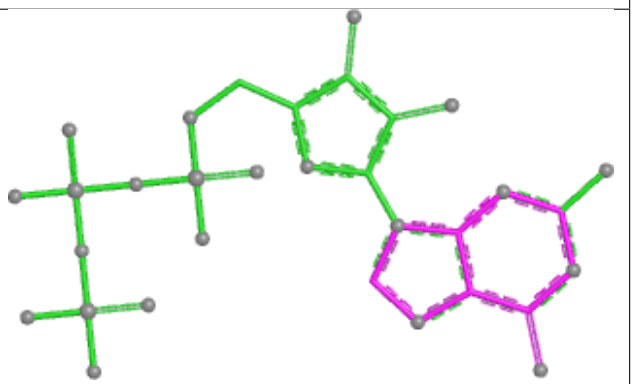


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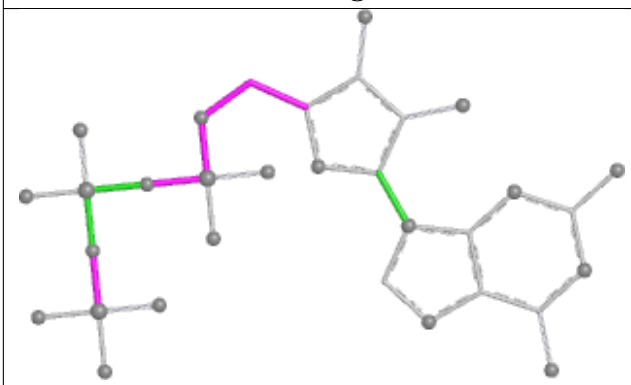
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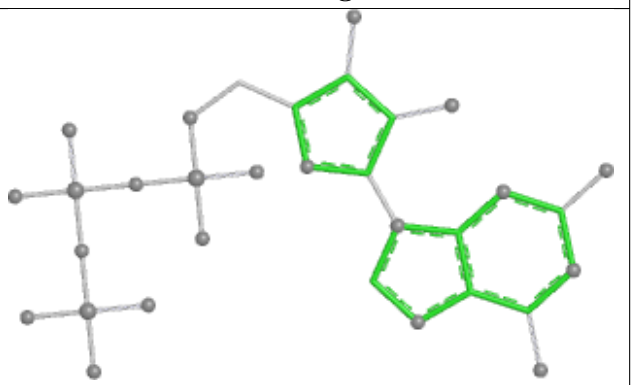
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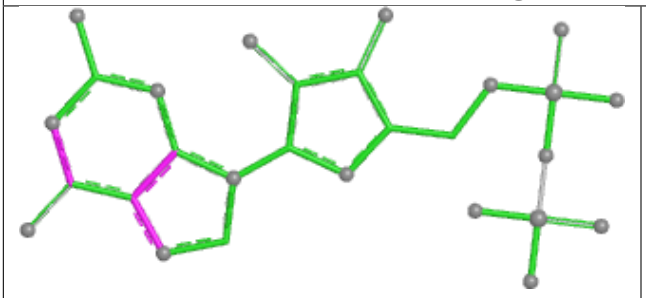


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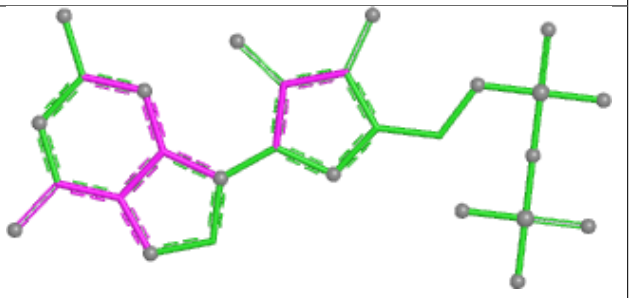


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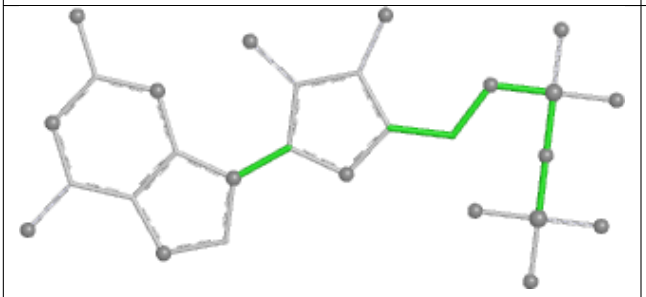
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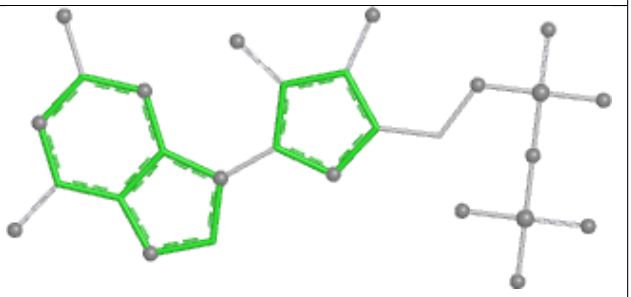
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Bond angles

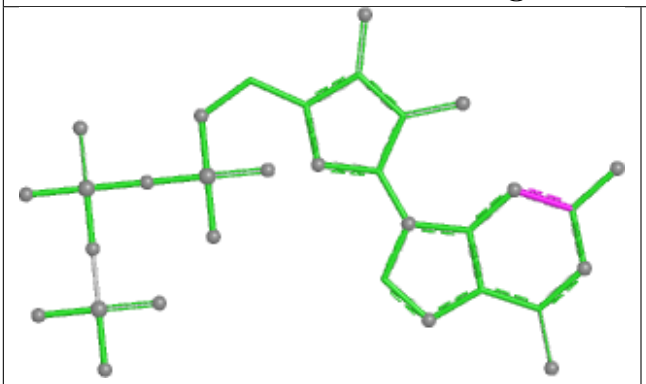


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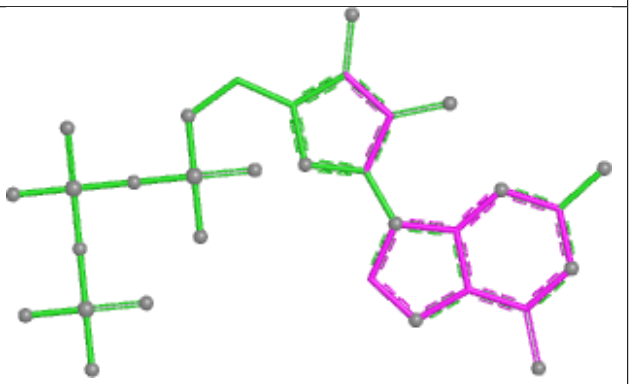


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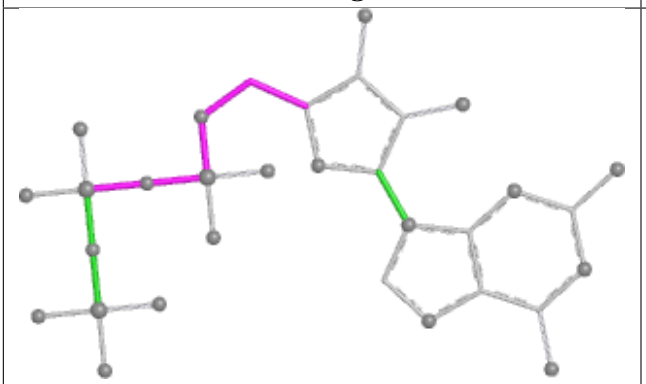
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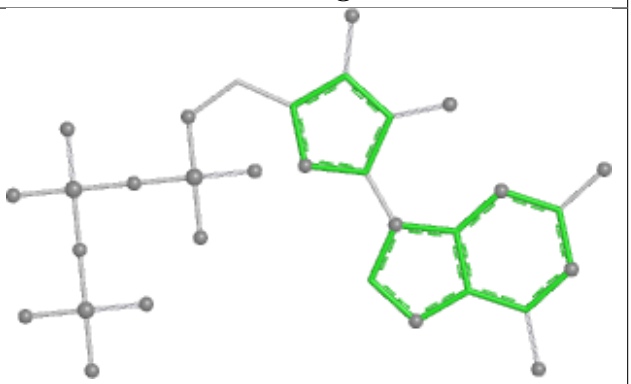
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Bond angles

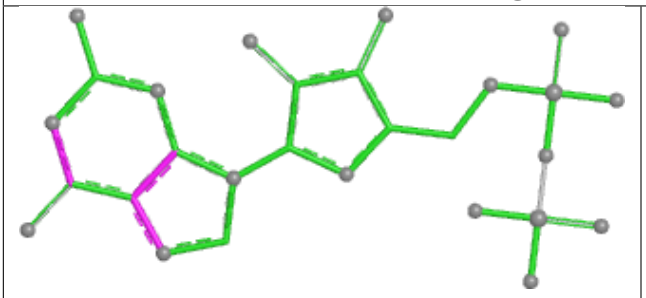


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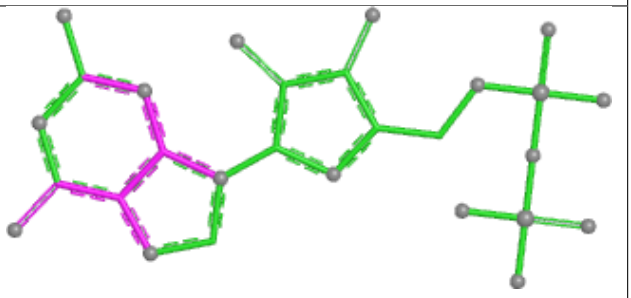


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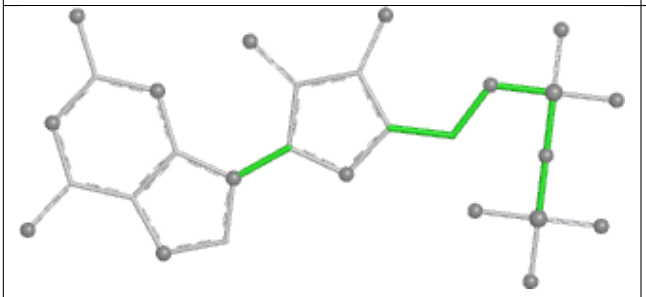
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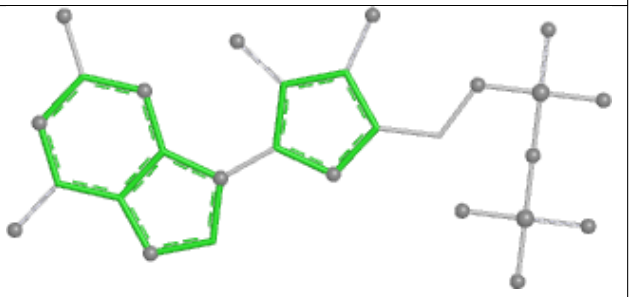
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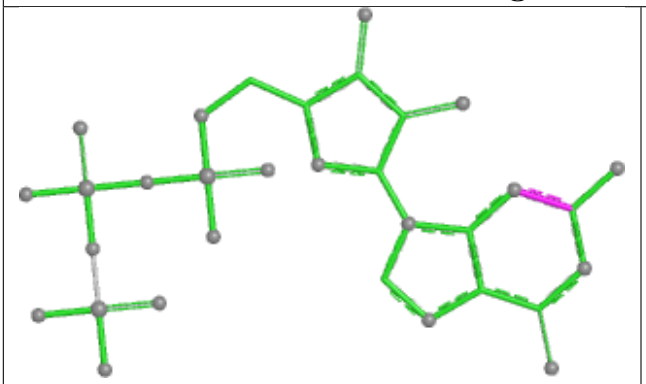


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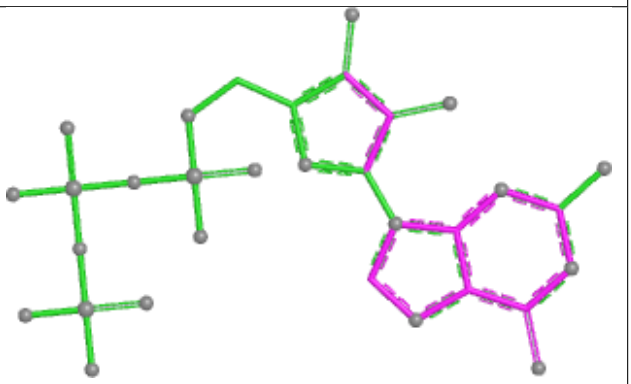


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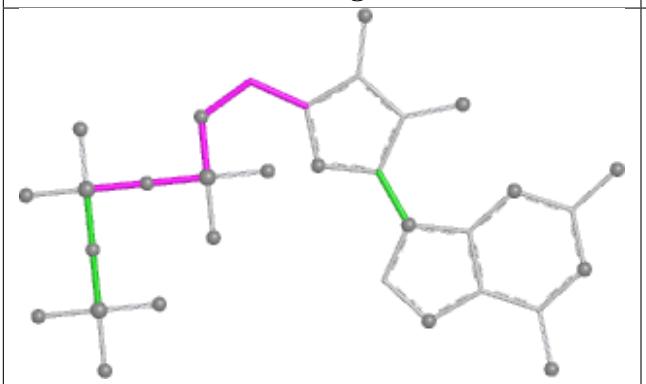
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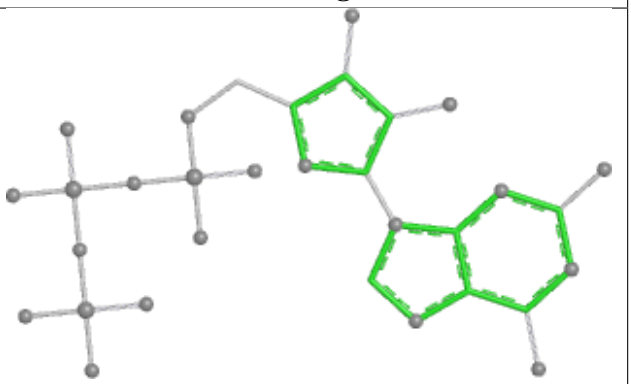
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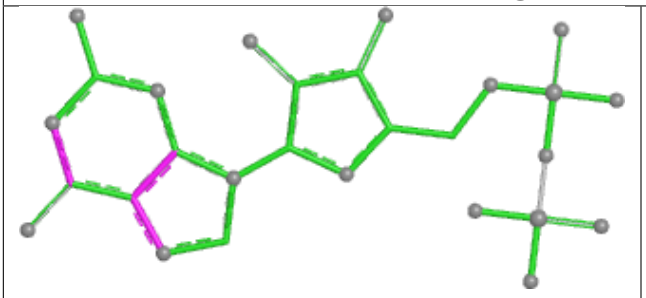


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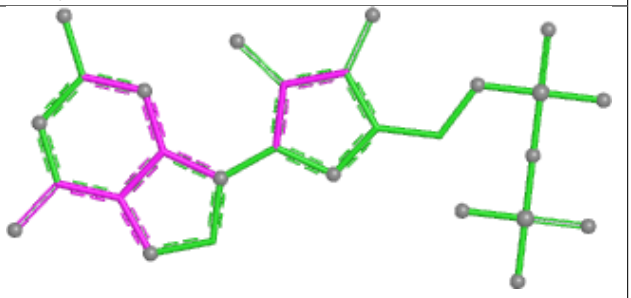


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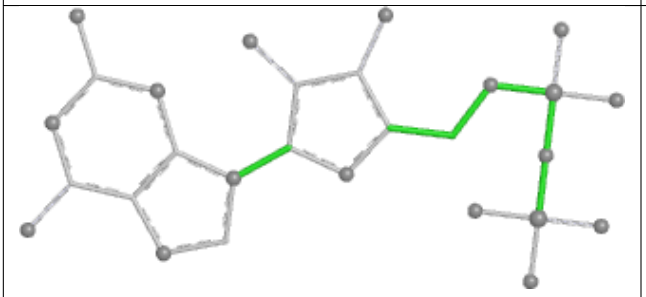
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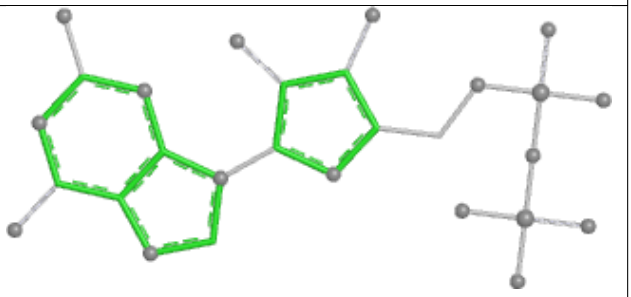
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Bond angles

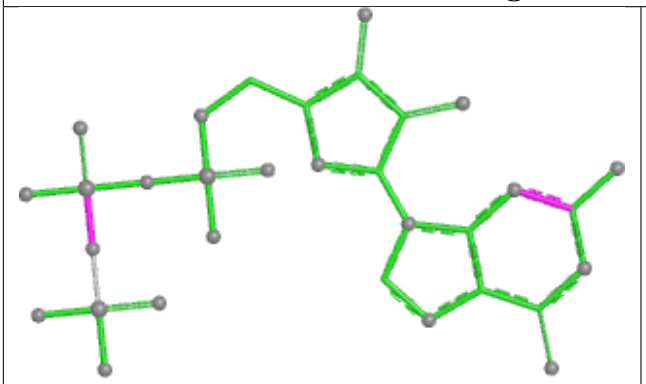


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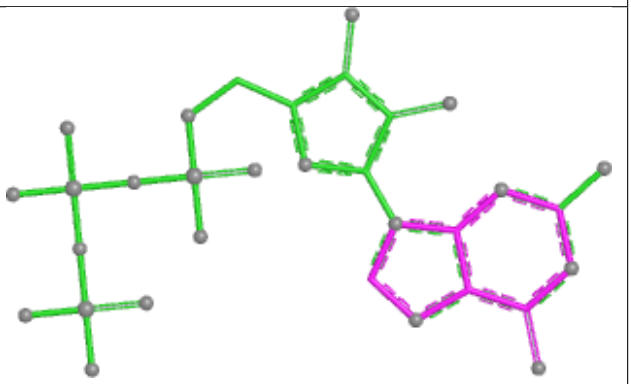


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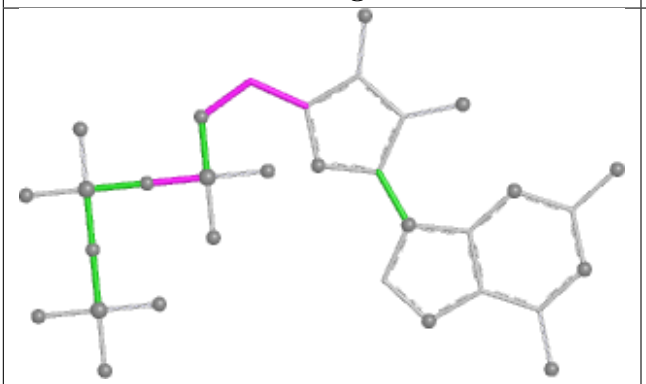
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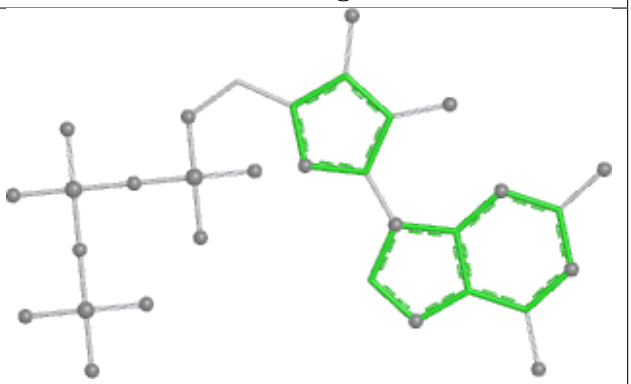
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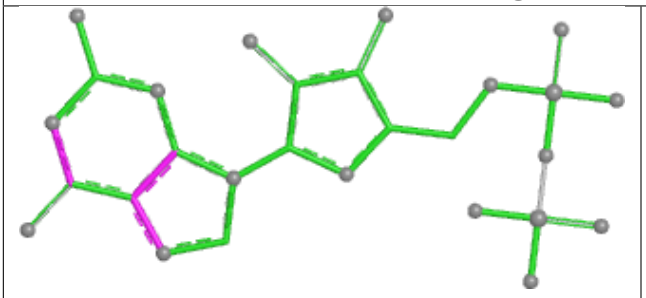


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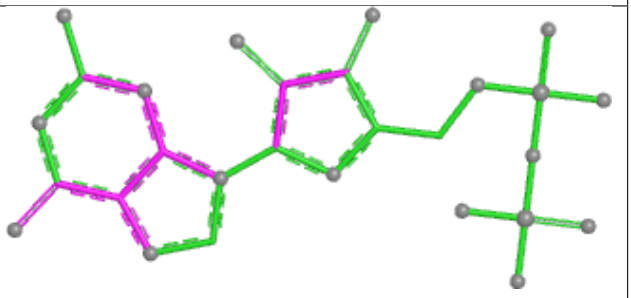


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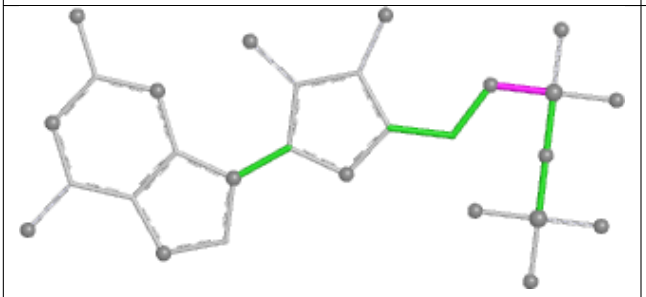
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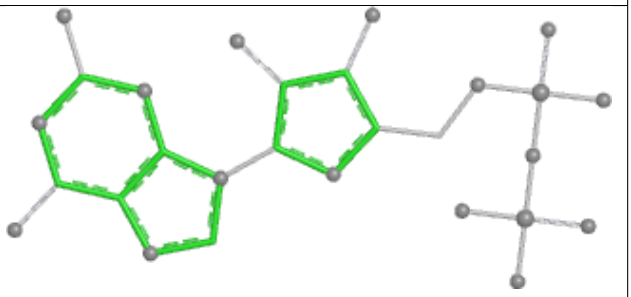
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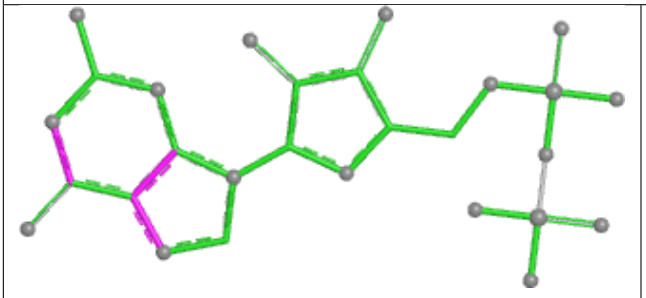


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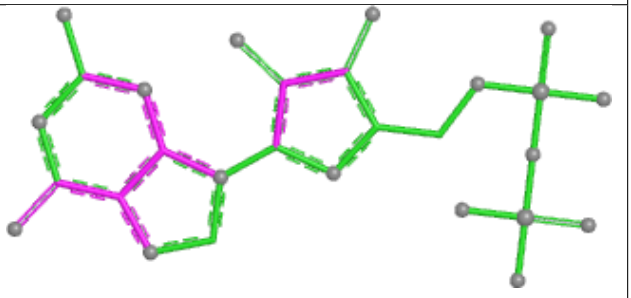


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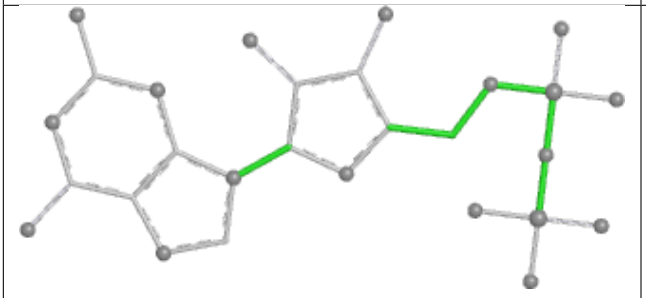
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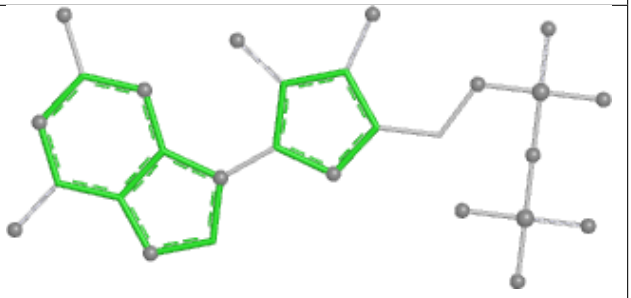
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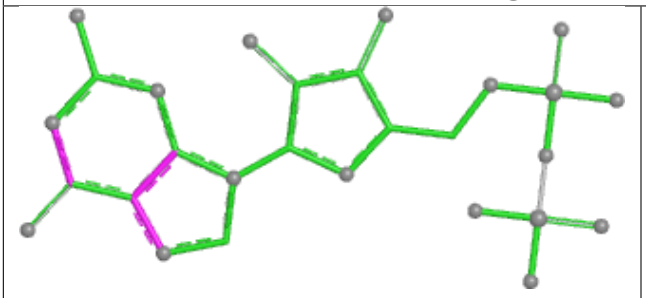


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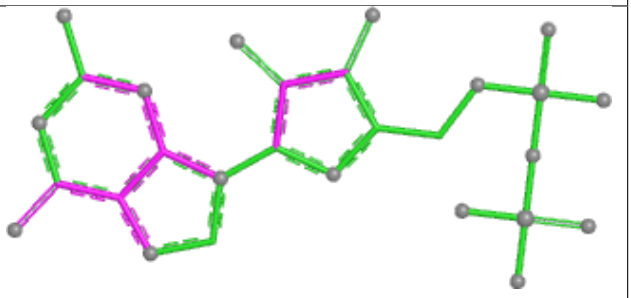


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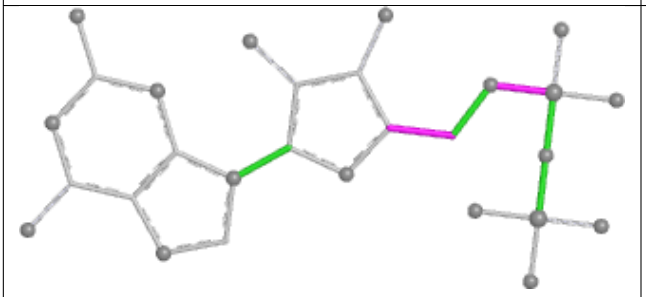
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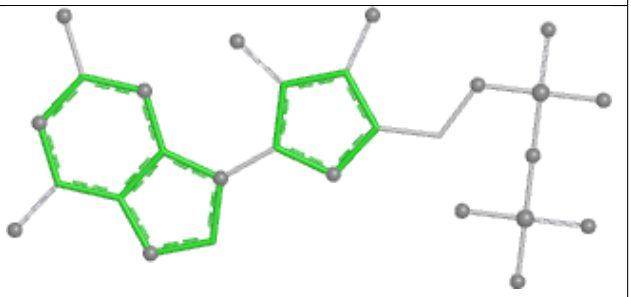
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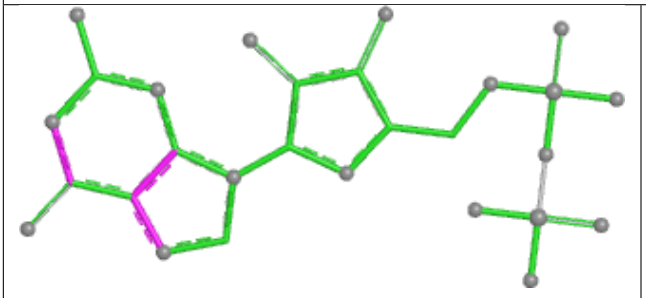


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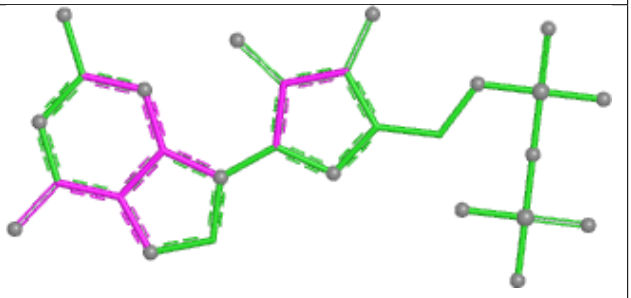


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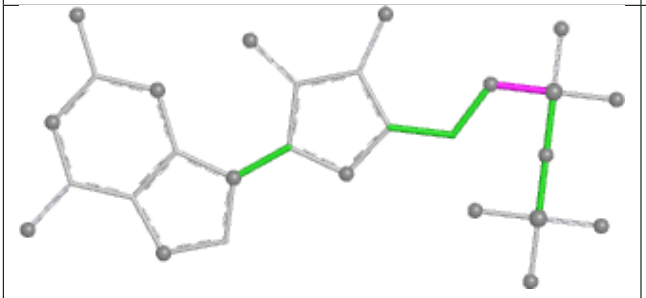
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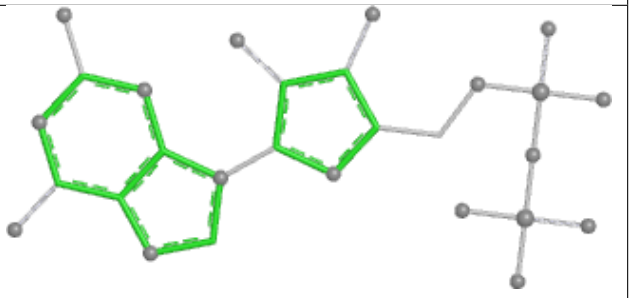
Bond lengths



Bond angles

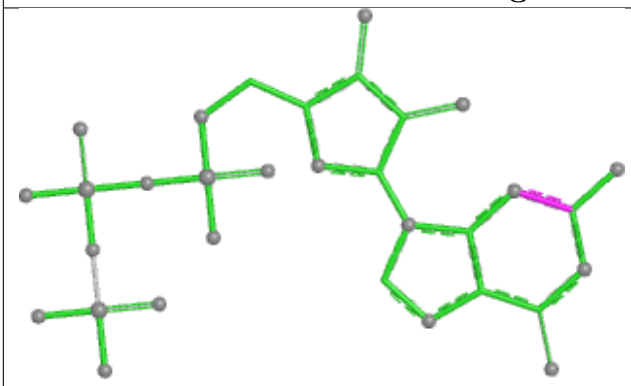


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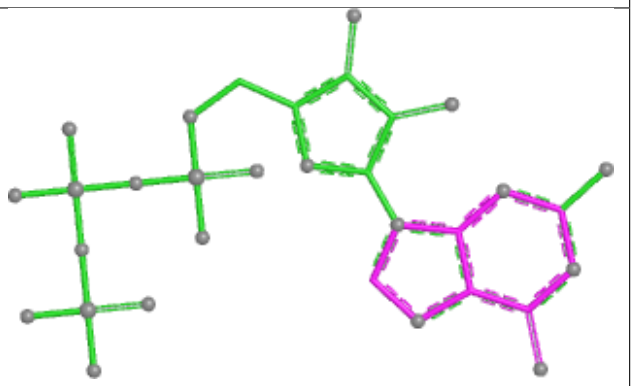


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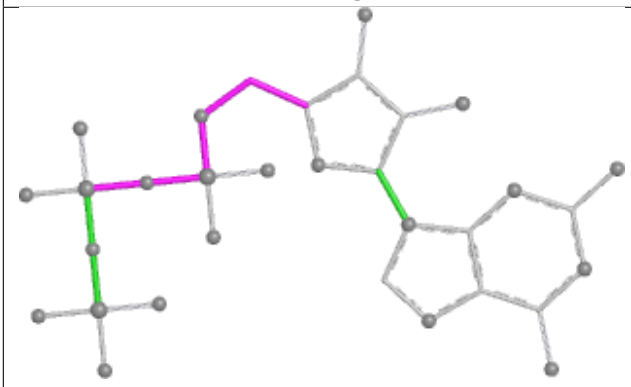
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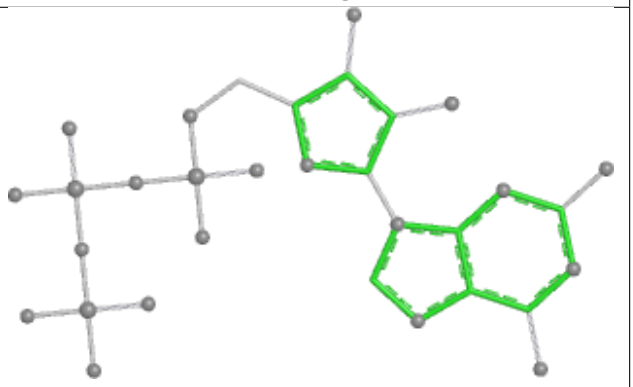
Bond lengths



Bond angles

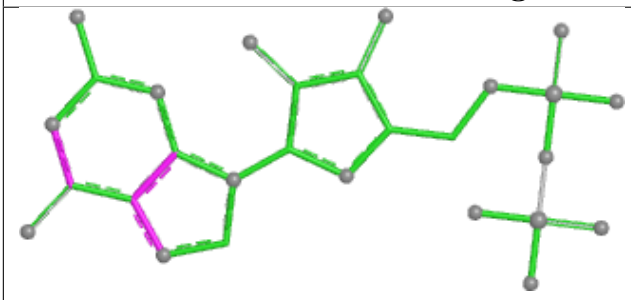


Torsions

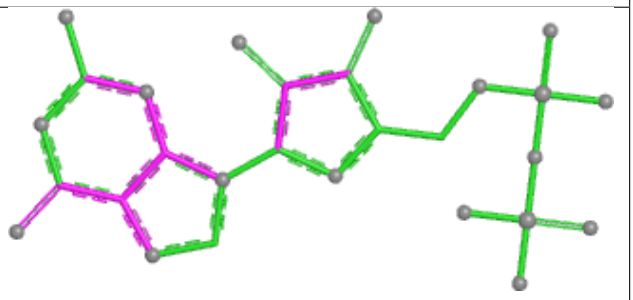


Rings

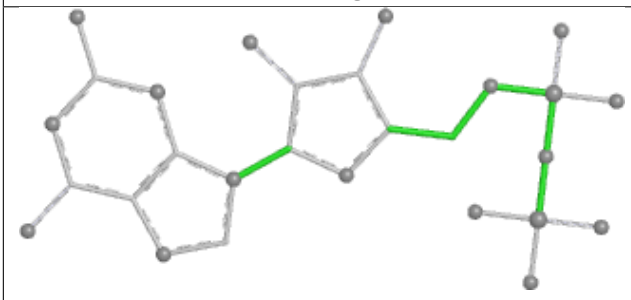
Ligand GDP NL 501



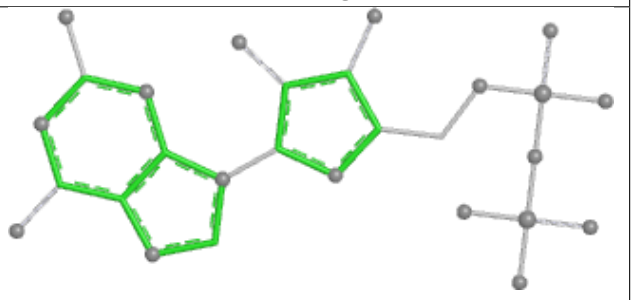
Bond lengths



Bond angles

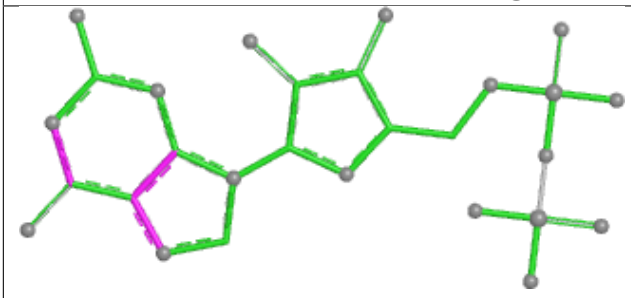


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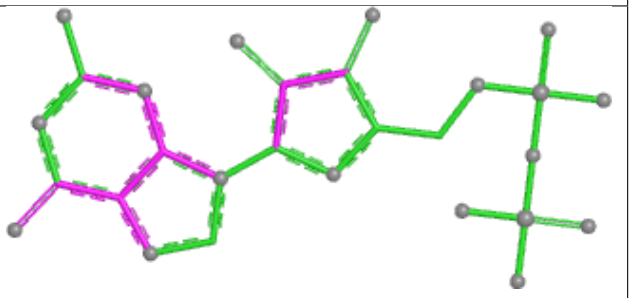


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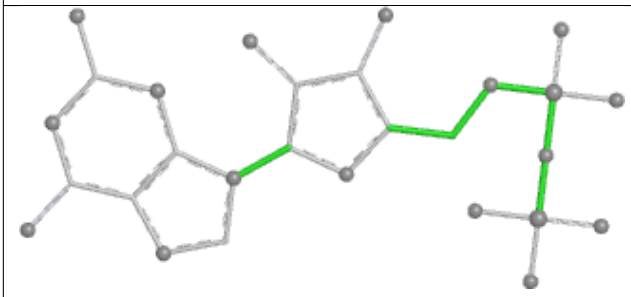
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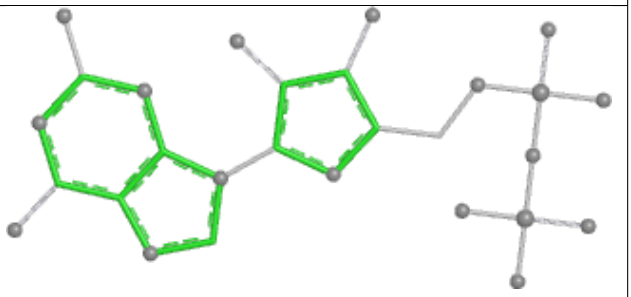
Bond lengths



Bond angles

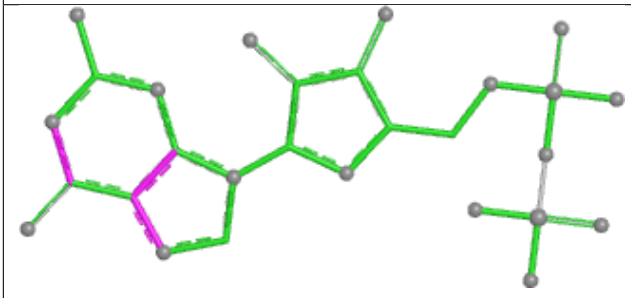


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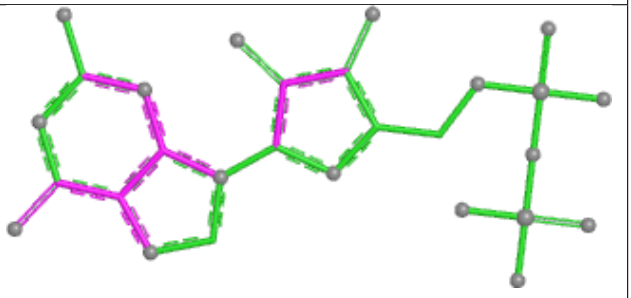


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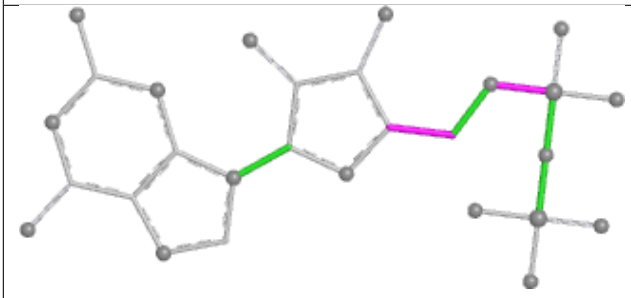
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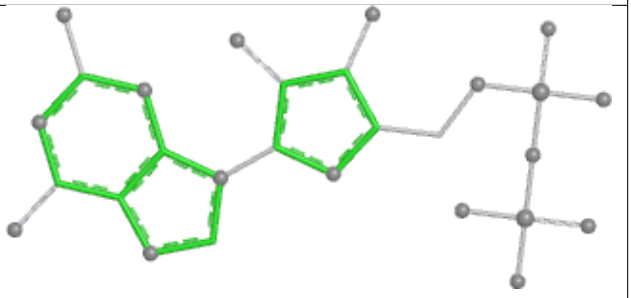
Bond lengths



Bond angles

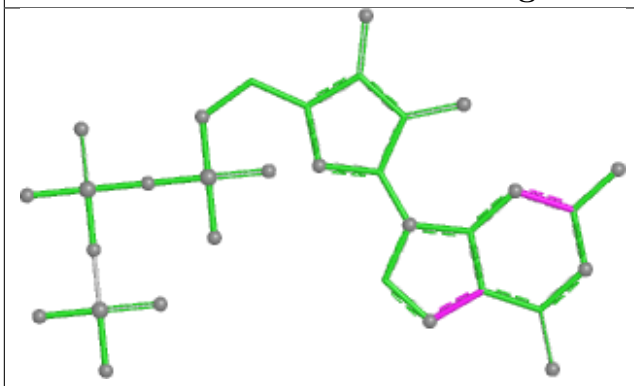


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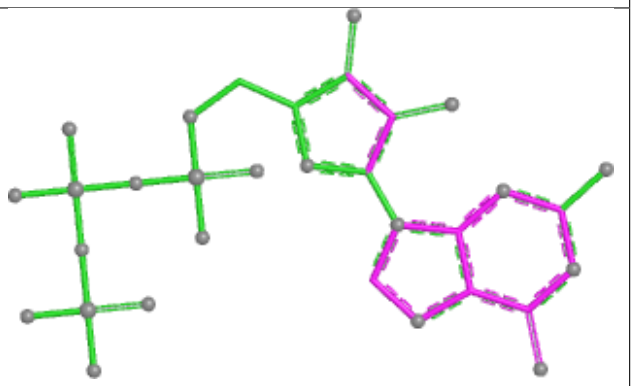


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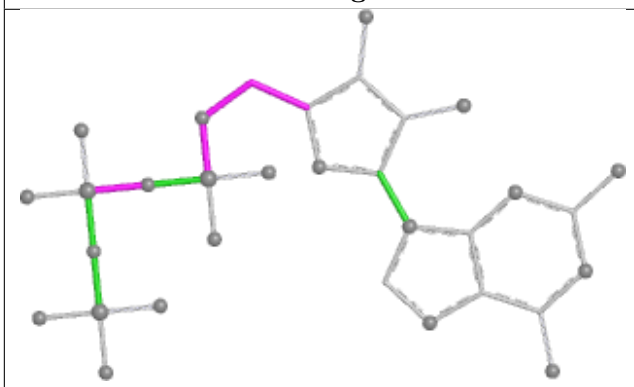
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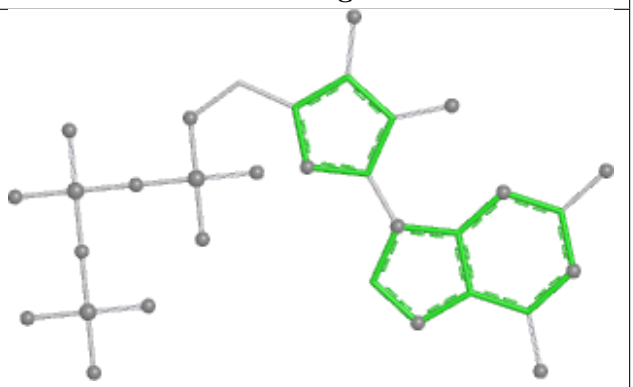
Bond lengths



Bond angles

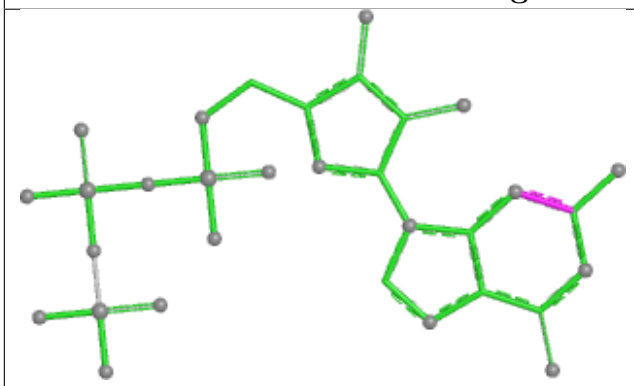


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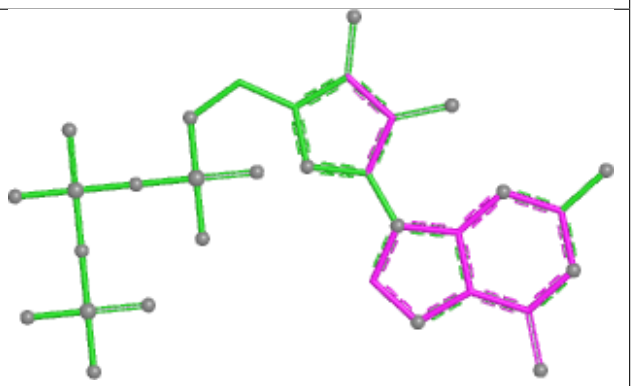


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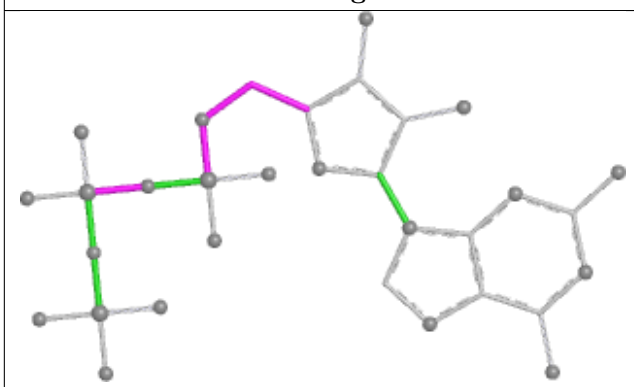
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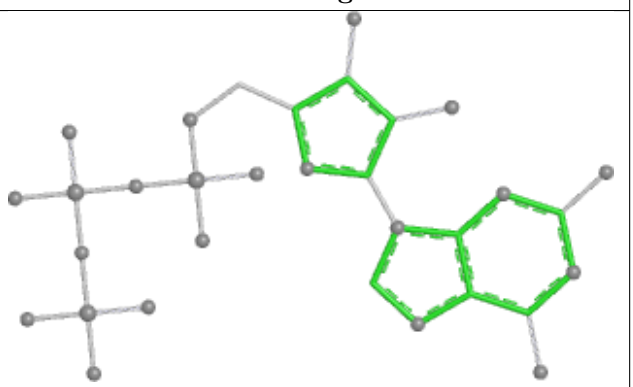
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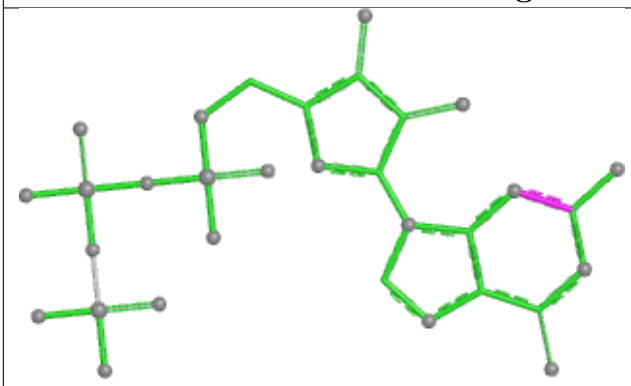


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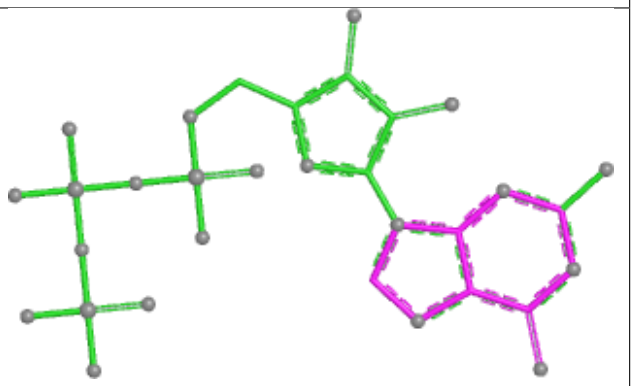


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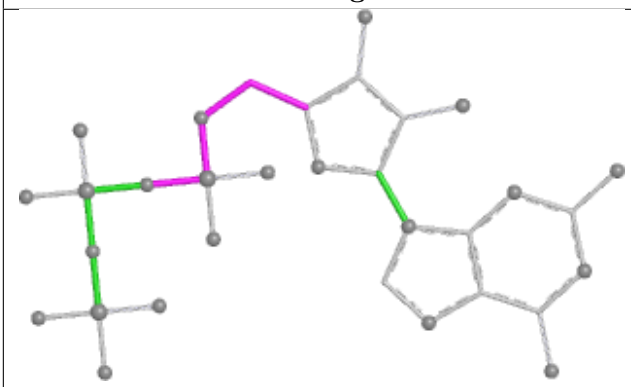
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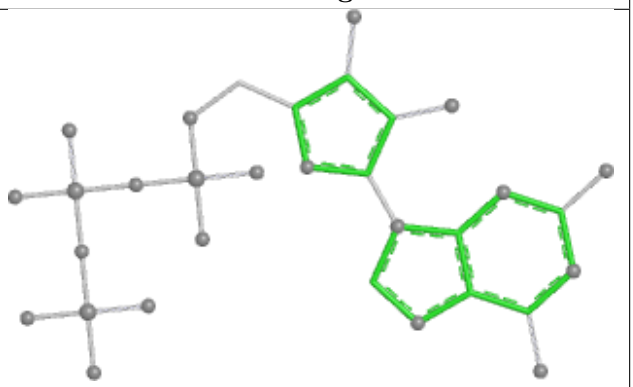
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Bond angles

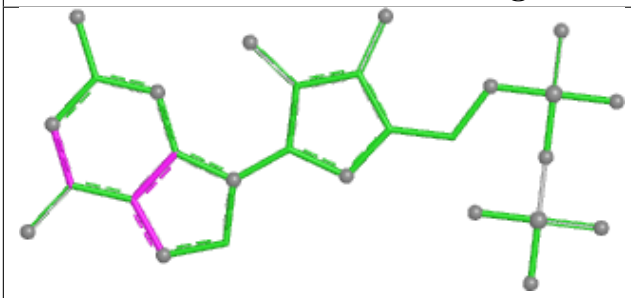


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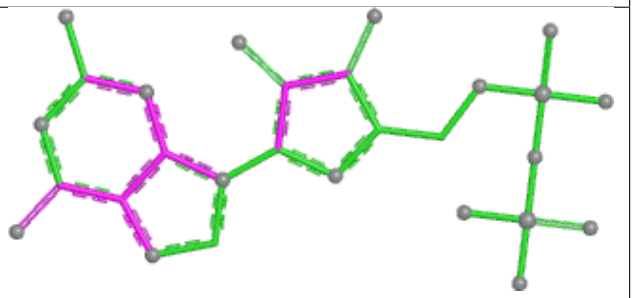


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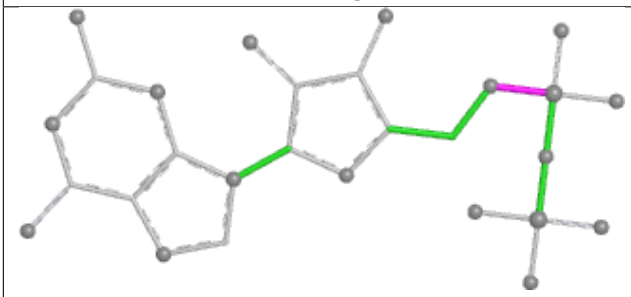
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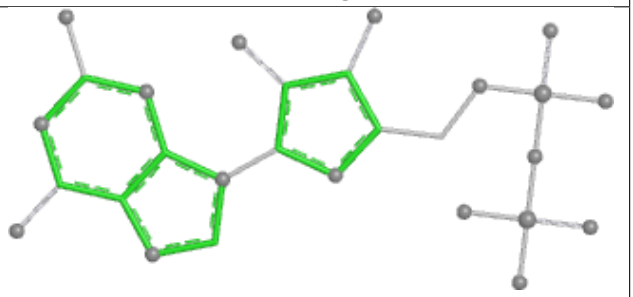
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Bond angles

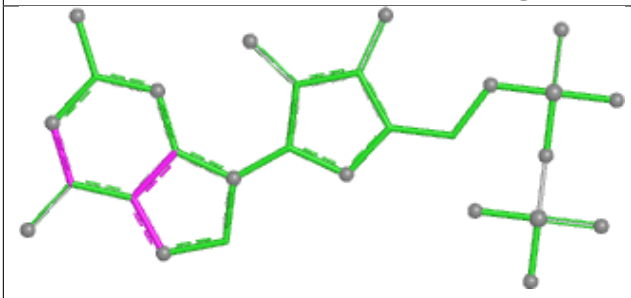


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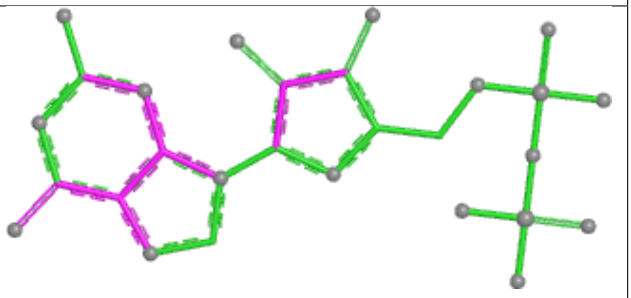


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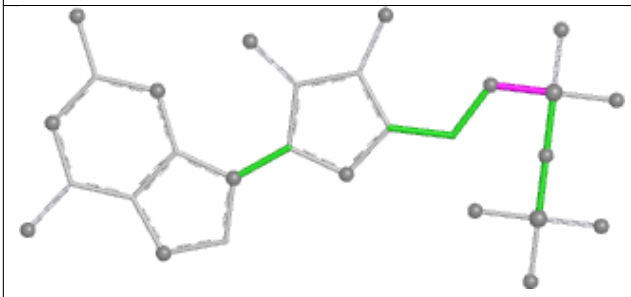
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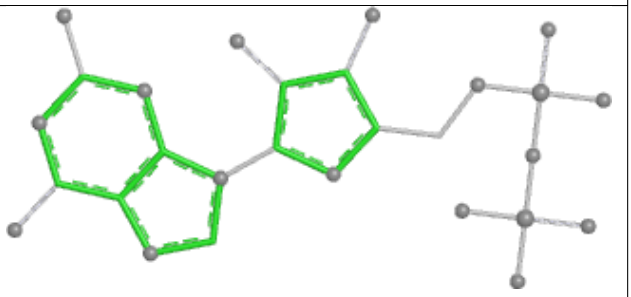
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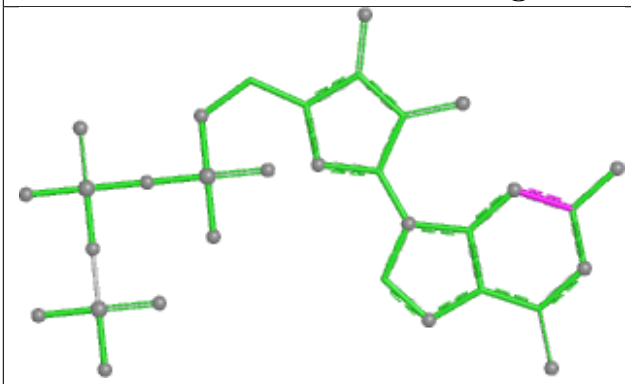


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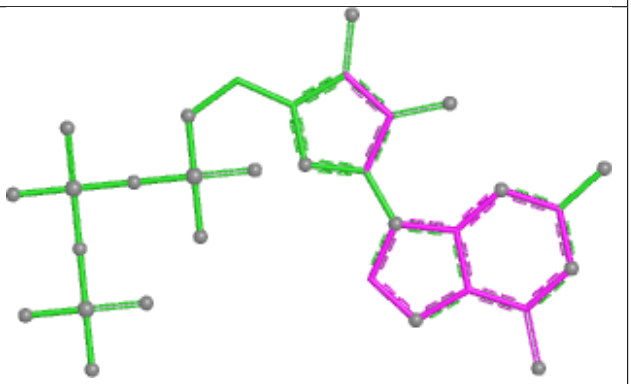


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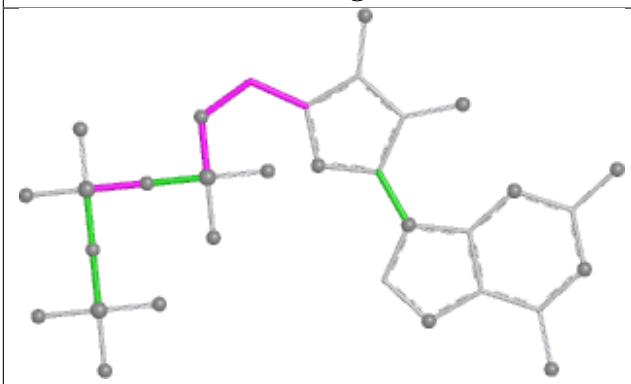
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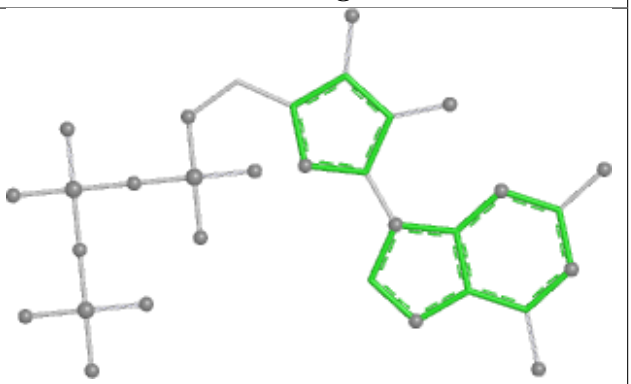
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Bond angles

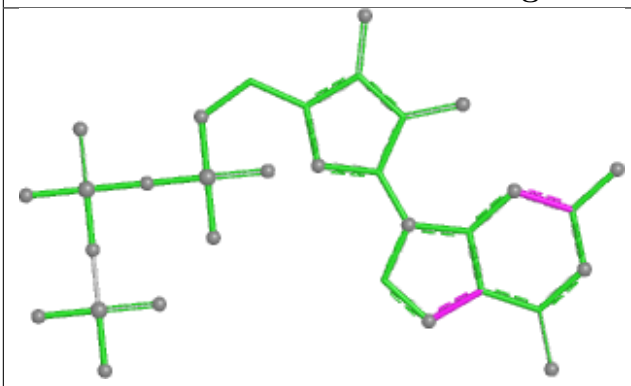


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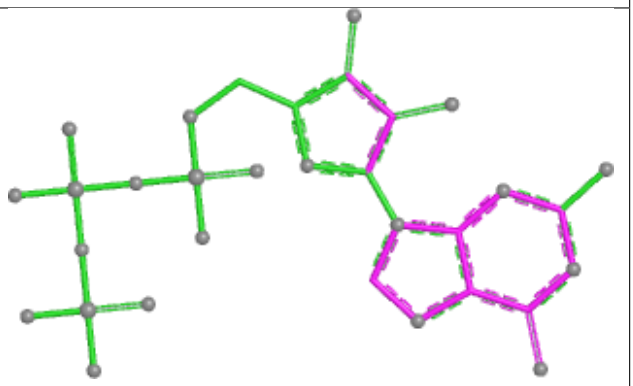


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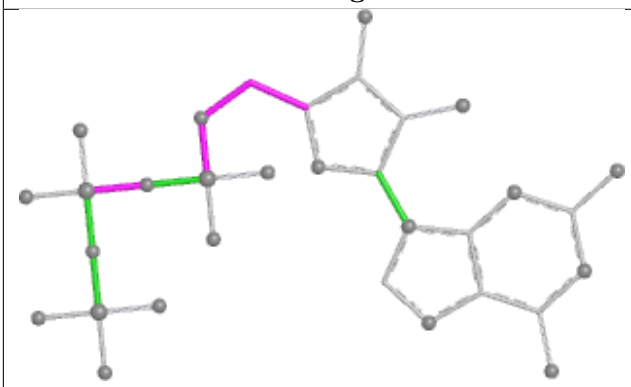
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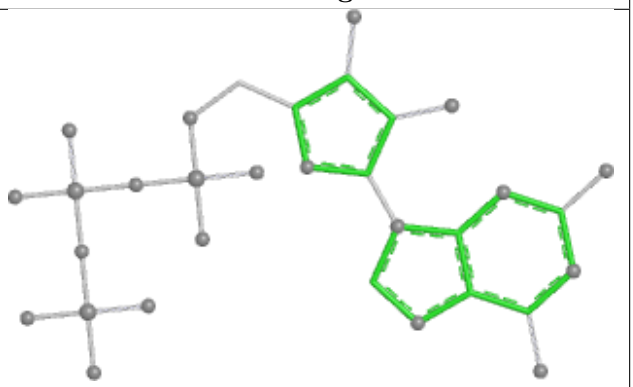
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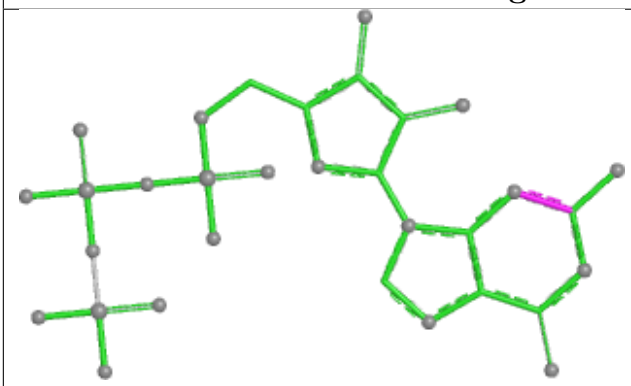


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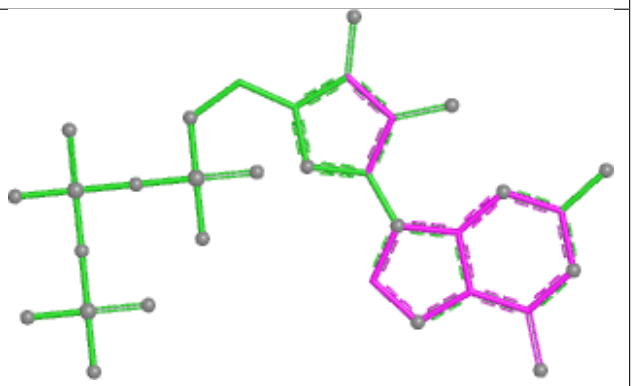


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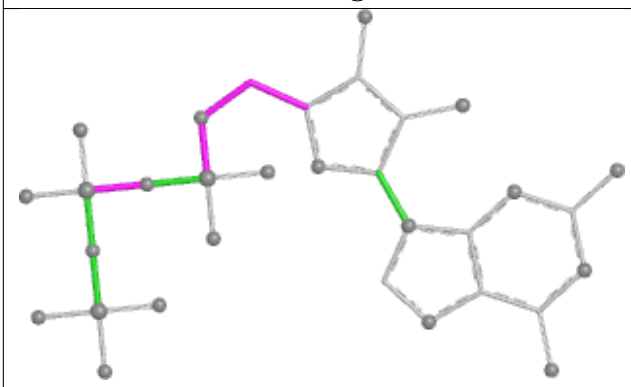
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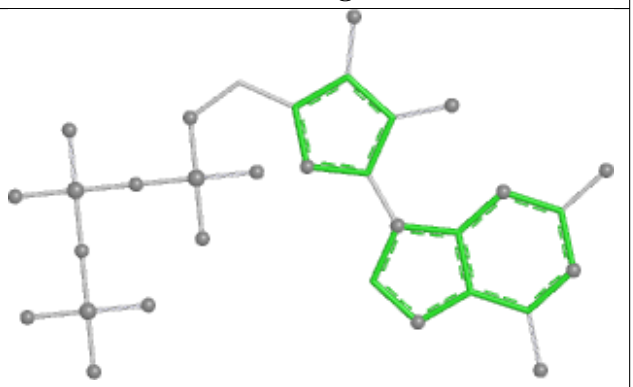
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Bond angles

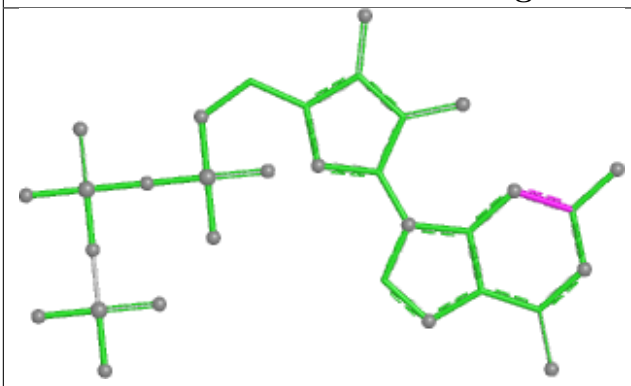


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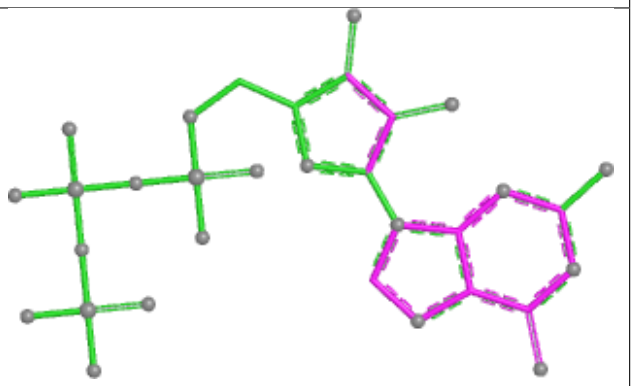


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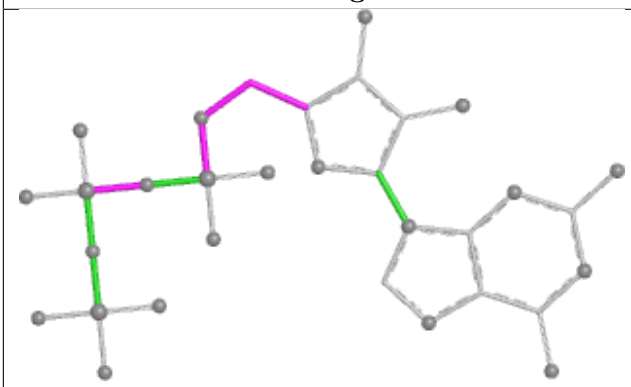
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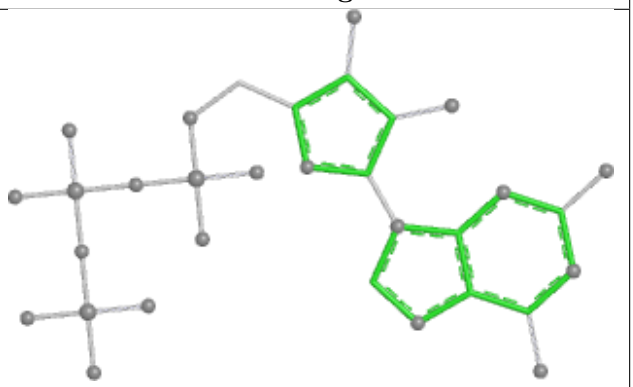
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Bond angles

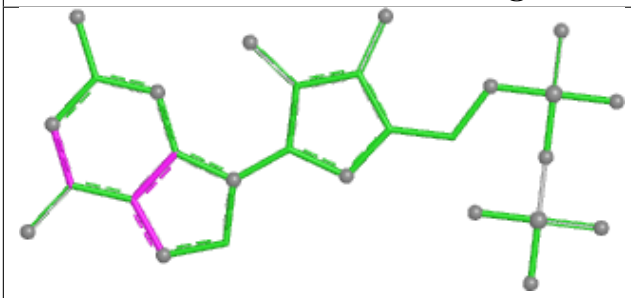


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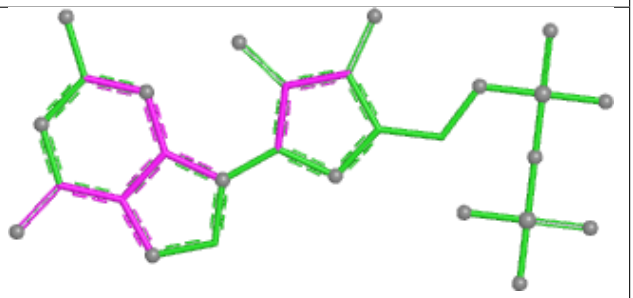


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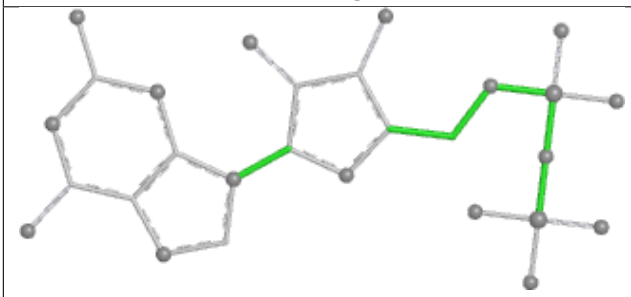
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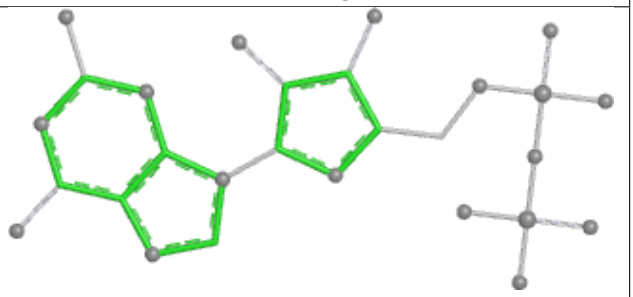
Bond lengths



Bond angles

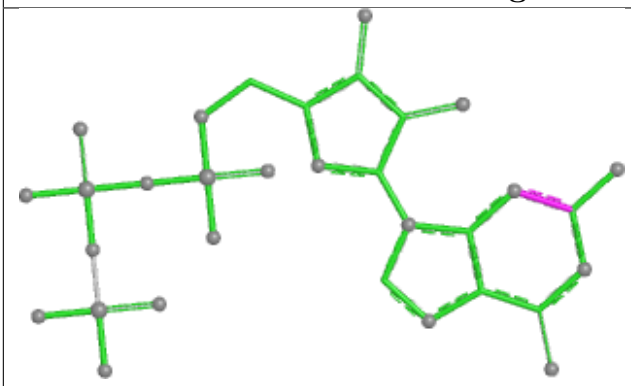


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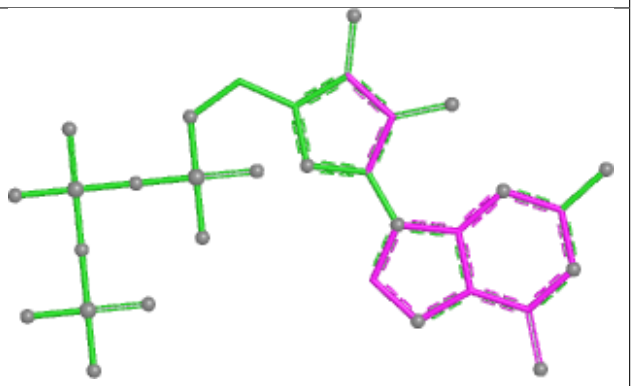


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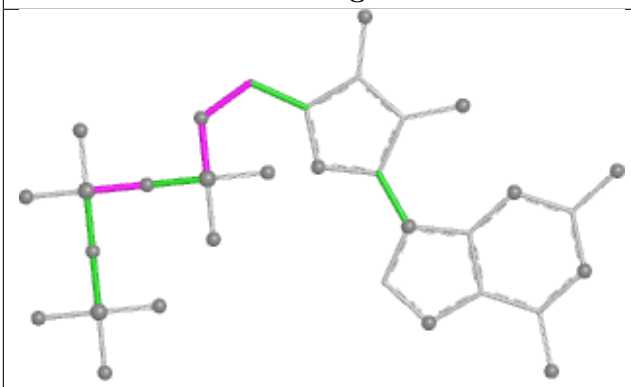
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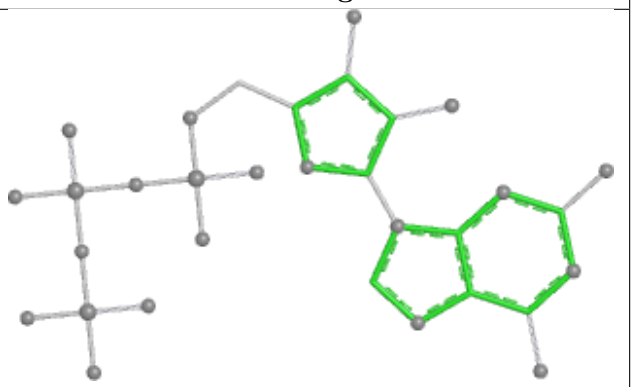
Bond lengths



Bond angles

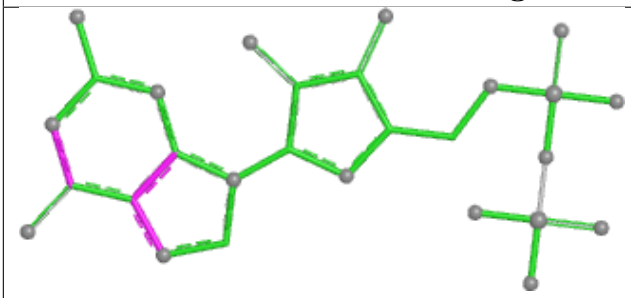


Torsions

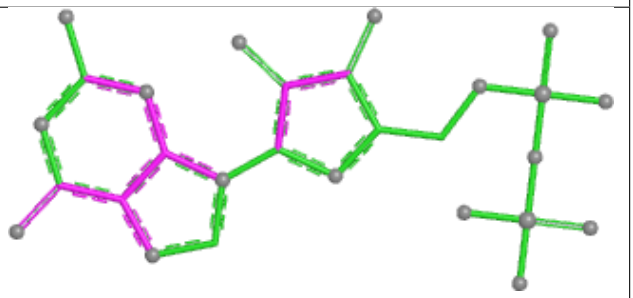


Rings

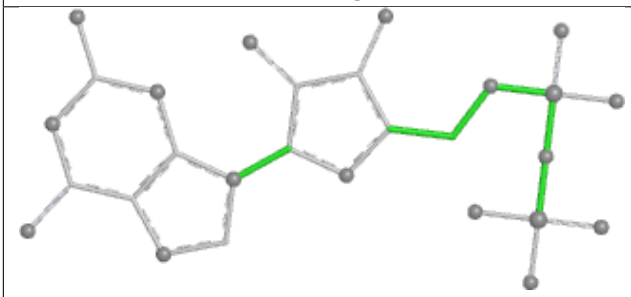
Ligand GDP ED 501



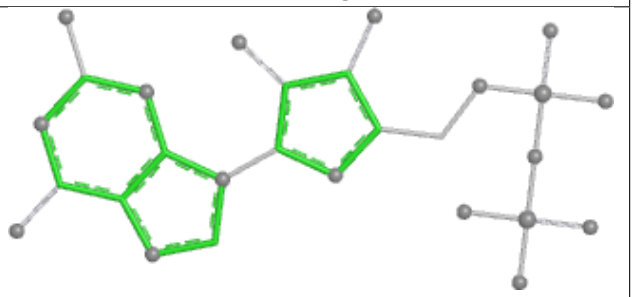
Bond lengths



Bond angles

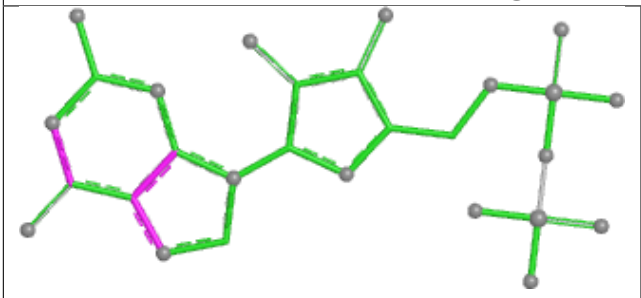


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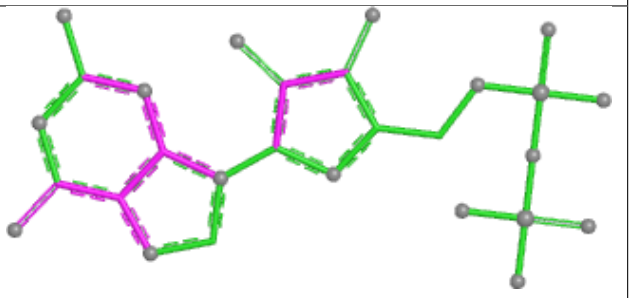


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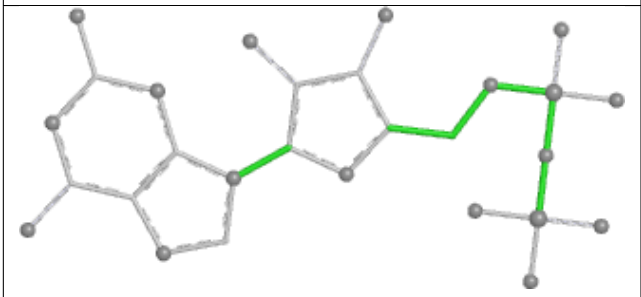
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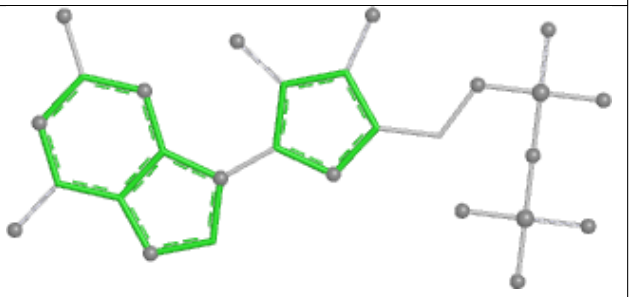
Bond lengths



Bond angles

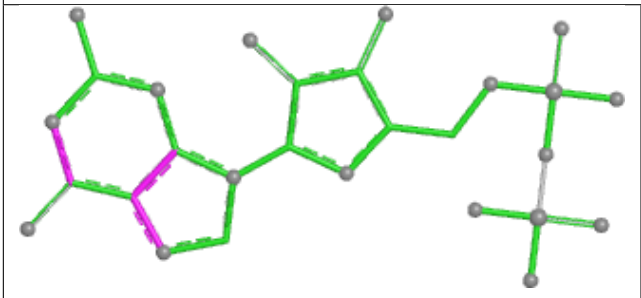


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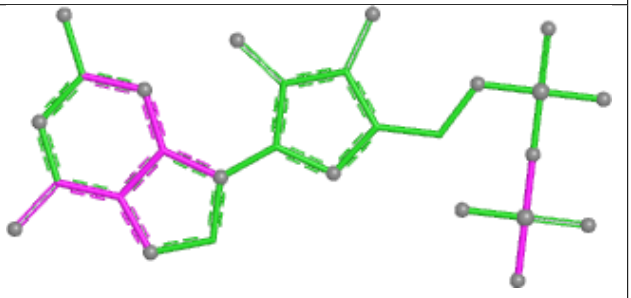


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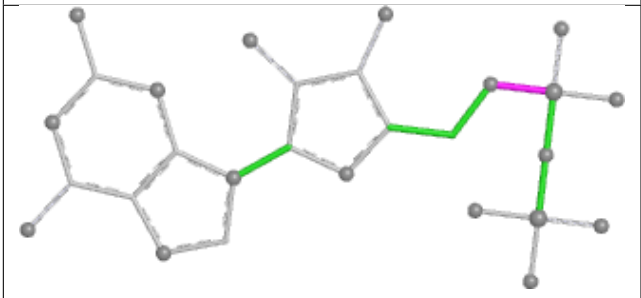
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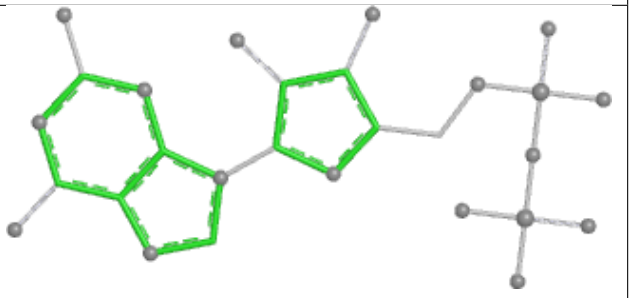
Bond lengths



Bond angles

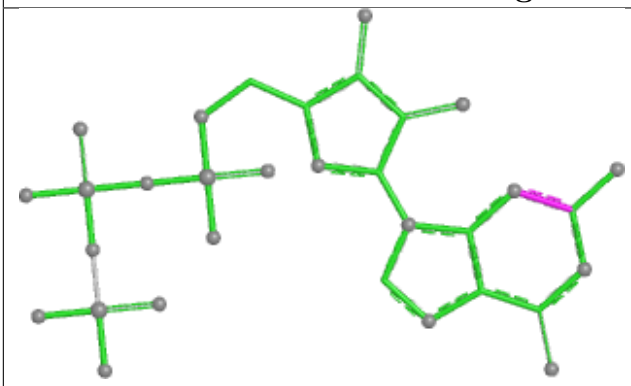


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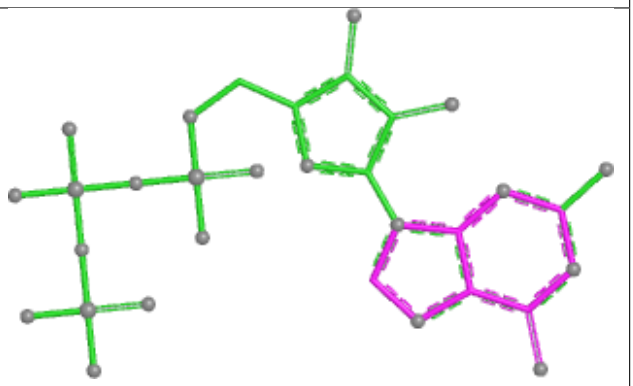


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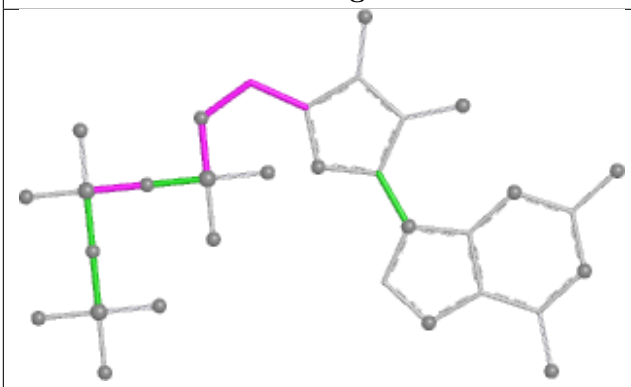
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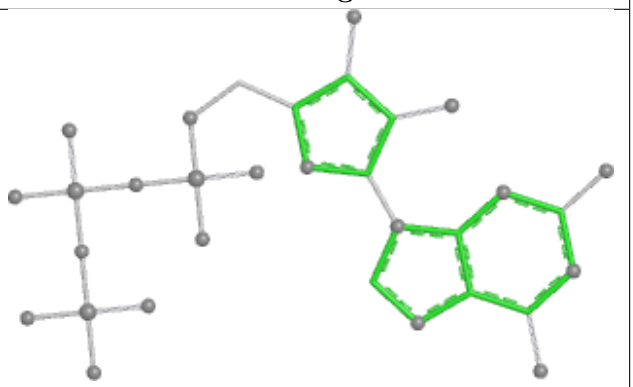
Bond lengths



Bond angles

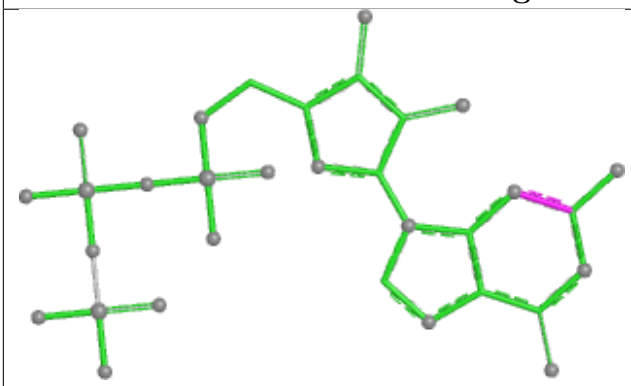


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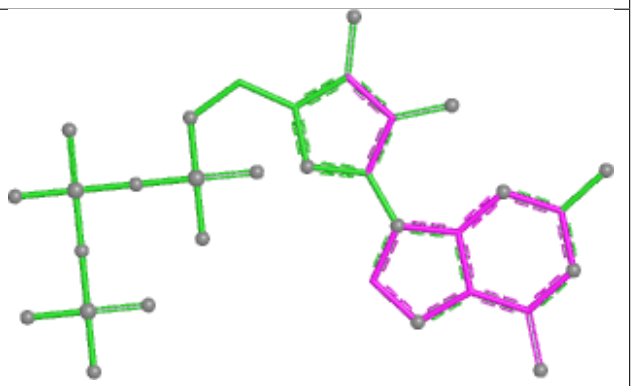


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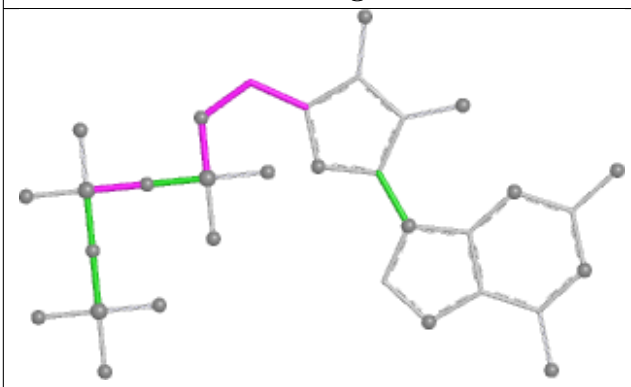
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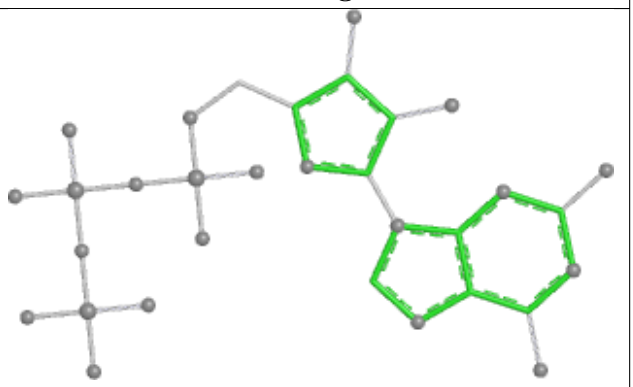
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Bond angles

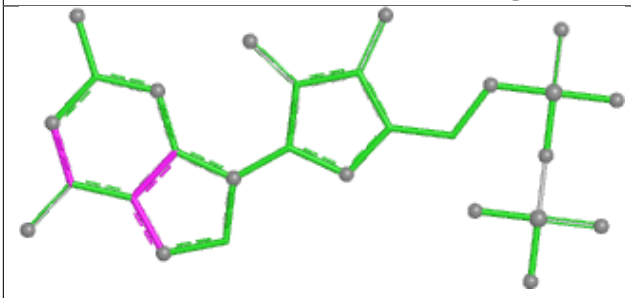


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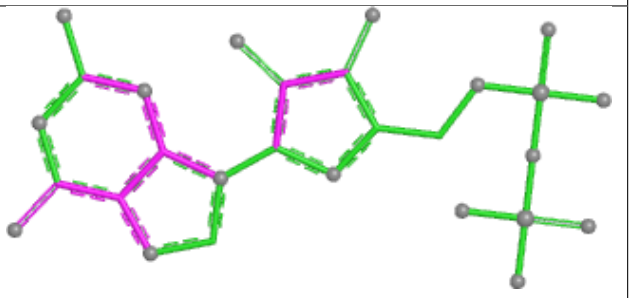


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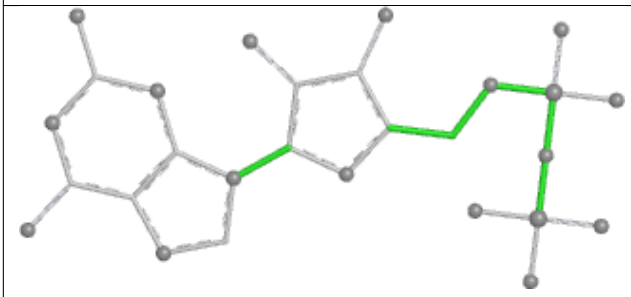
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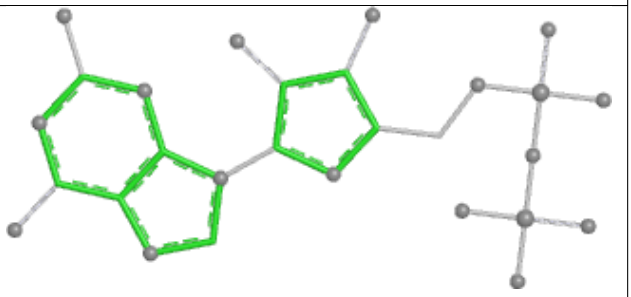
Bond lengths



Bond angles

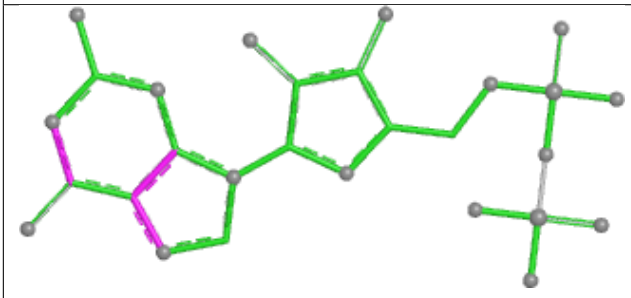


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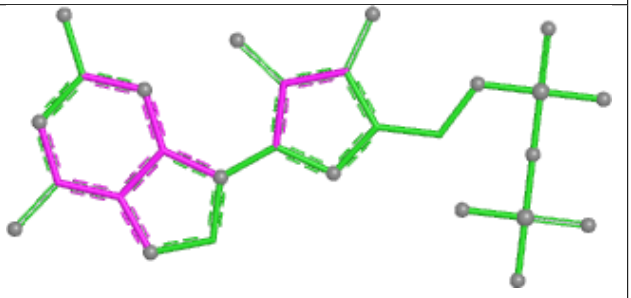


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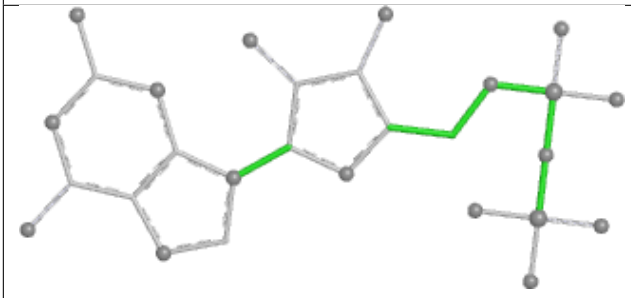
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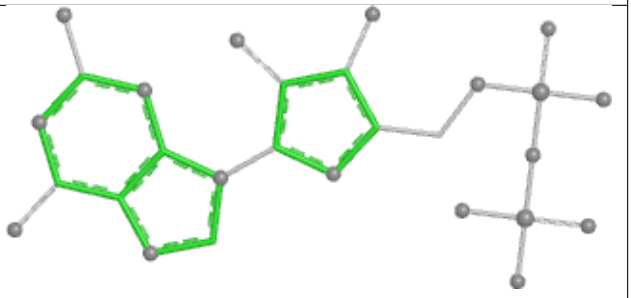
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Bond angles

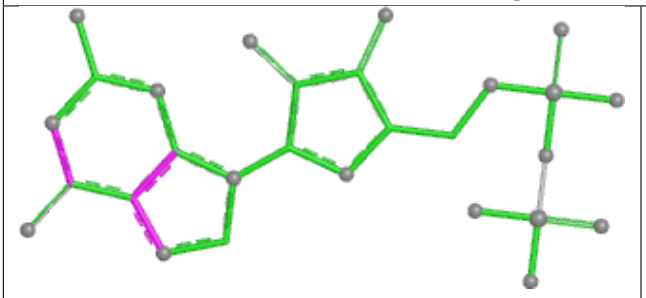


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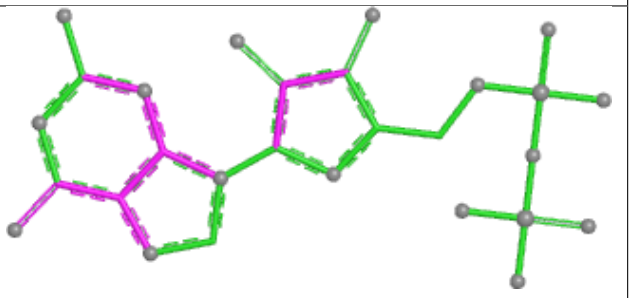


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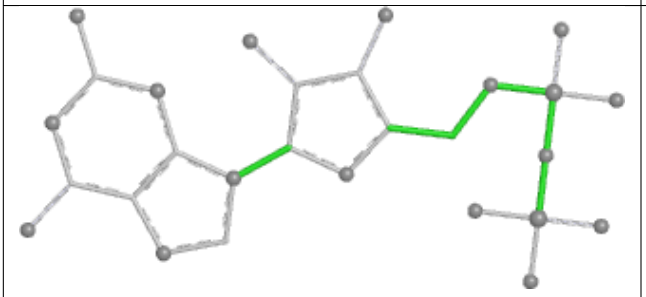
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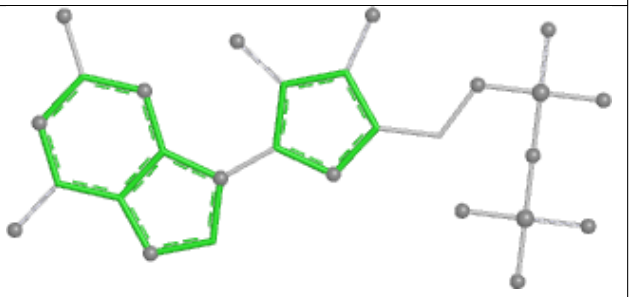
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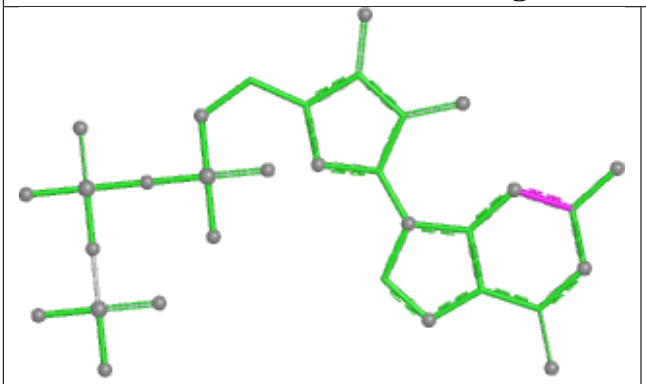


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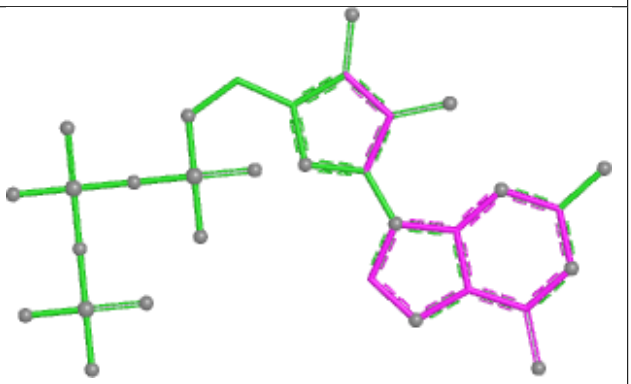


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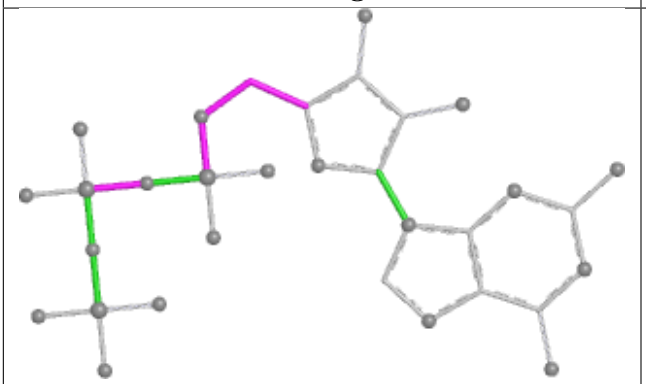
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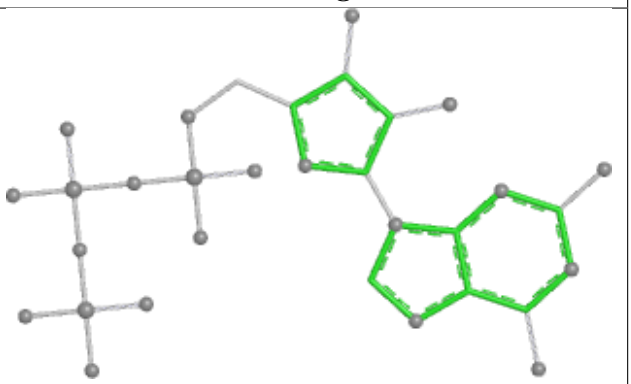
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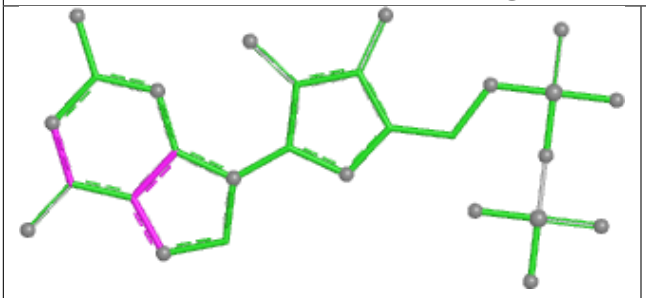


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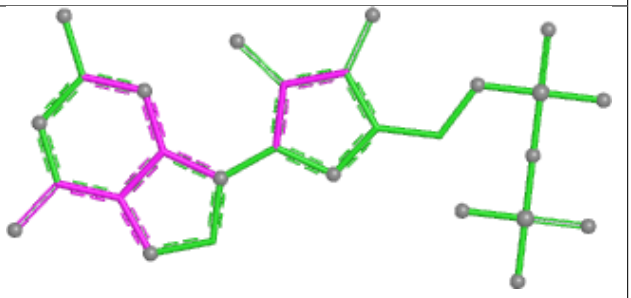


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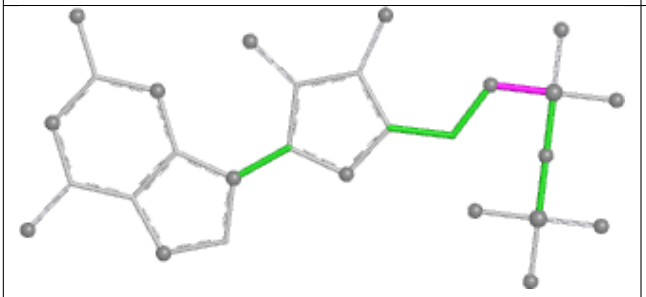
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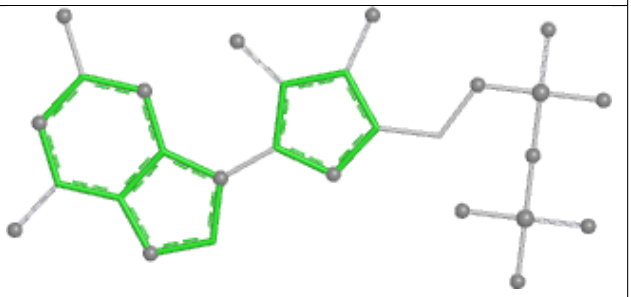
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Bond angles

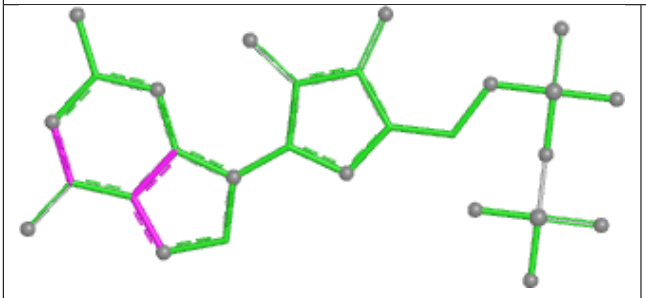


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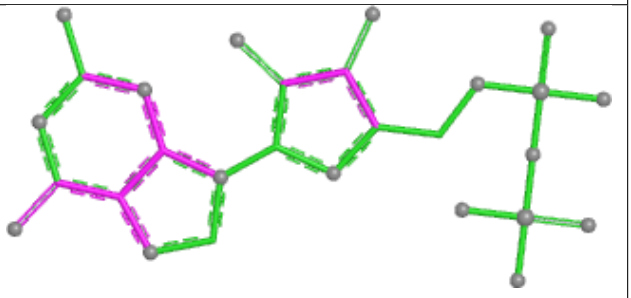


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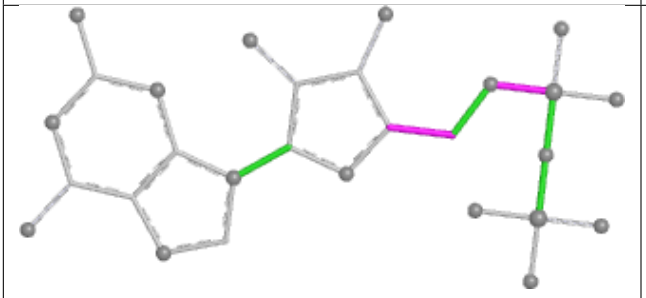
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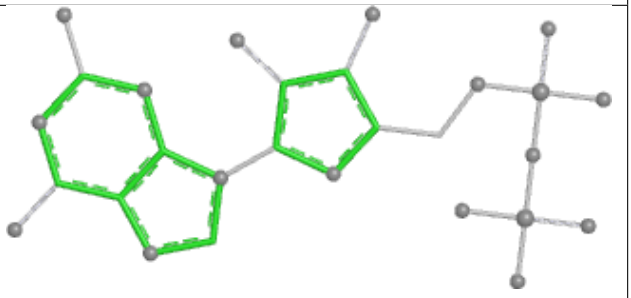
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Bond angles

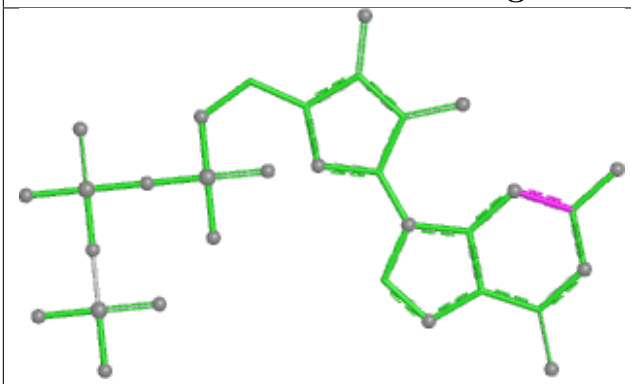


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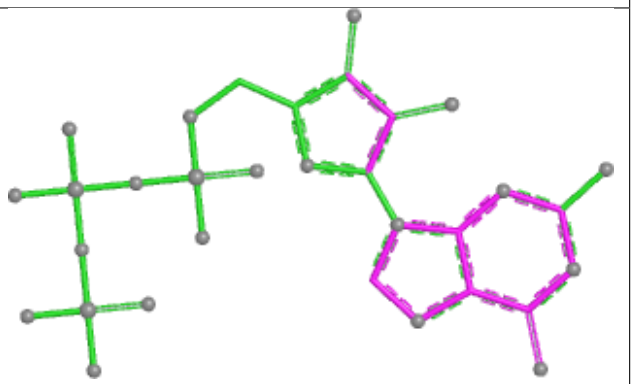


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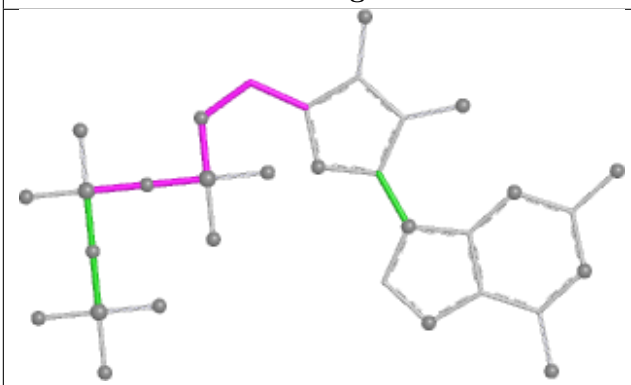
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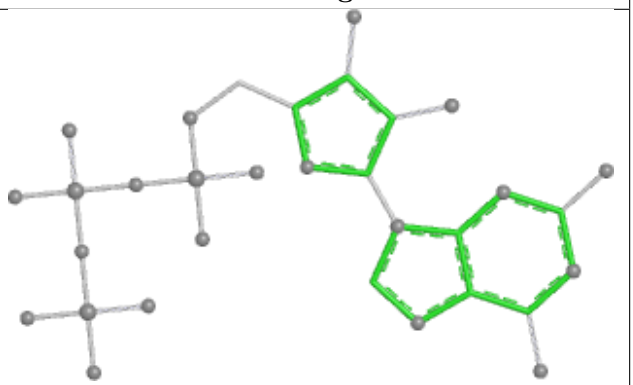
Bond lengths



Bond angles

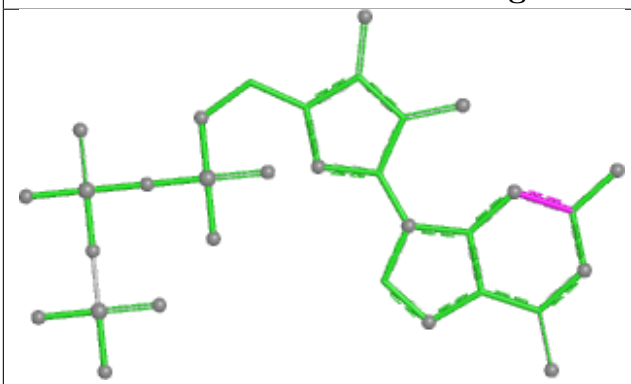


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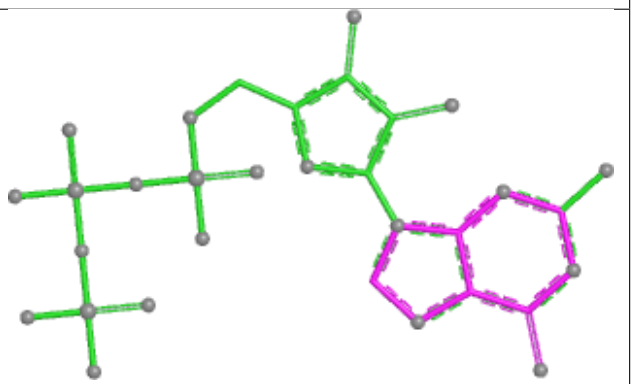


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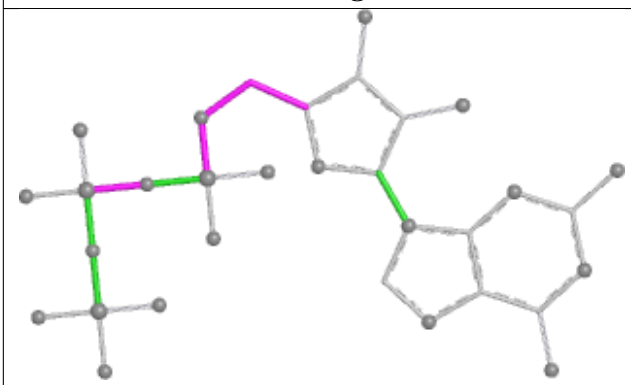
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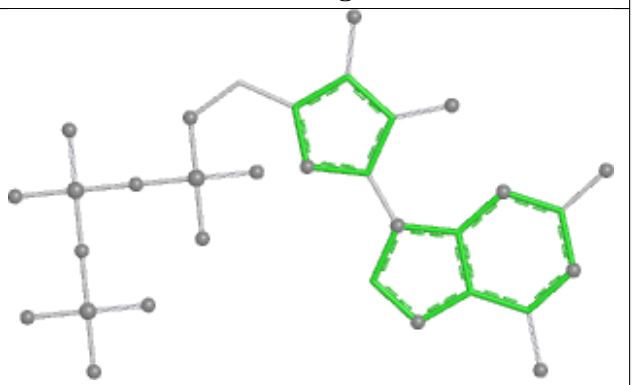
Bond lengths



Bond angles

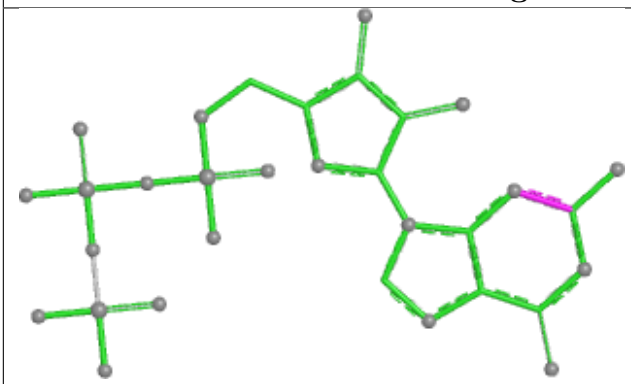


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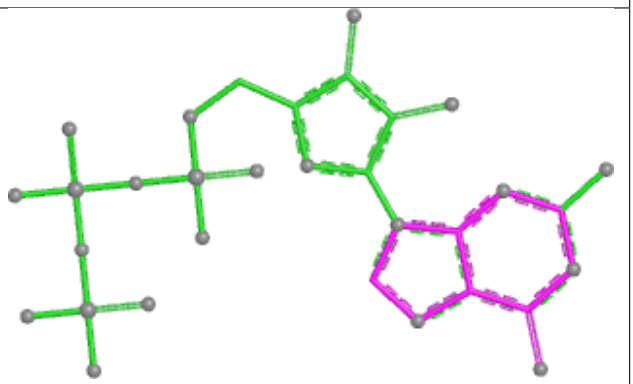


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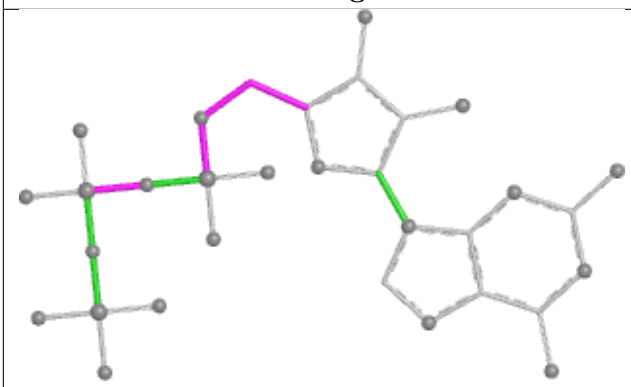
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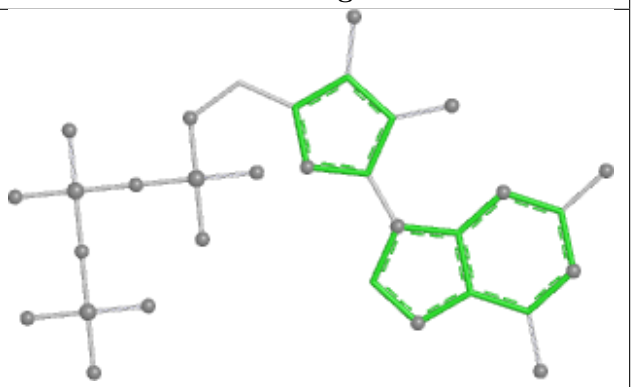
Bond lengths



Bond angles

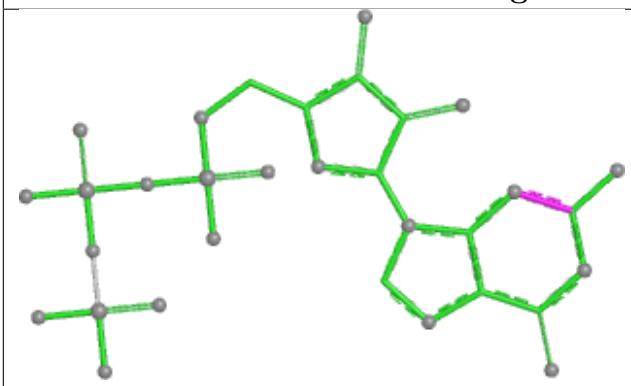


Torsions

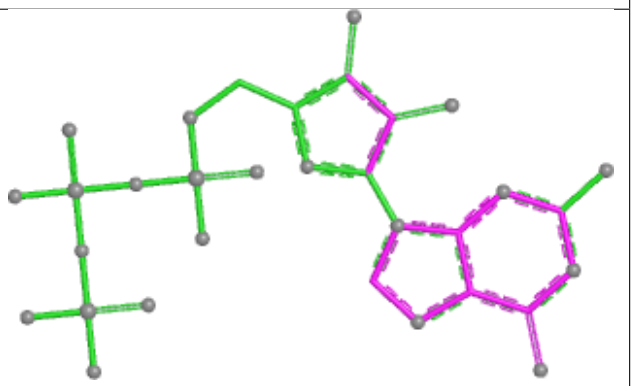


Rings

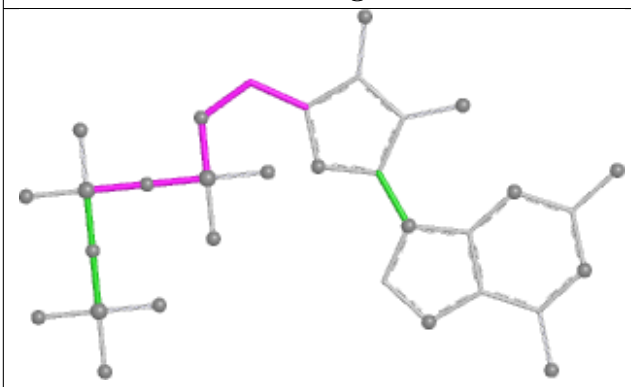
Ligand GTP EA 501



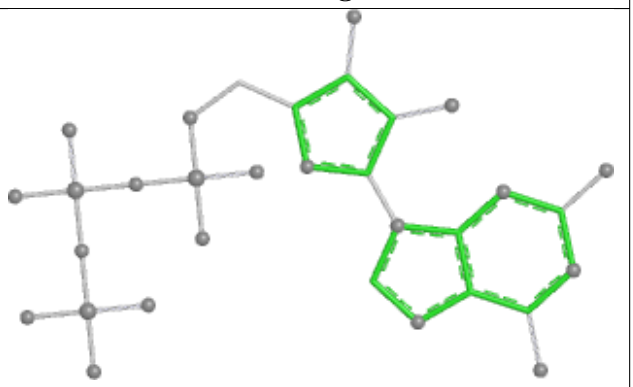
Bond lengths



Bond angles

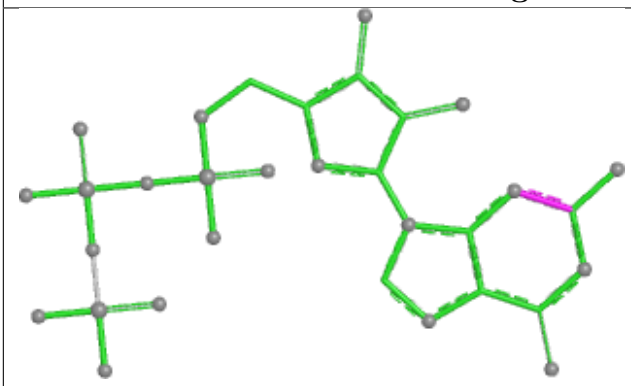


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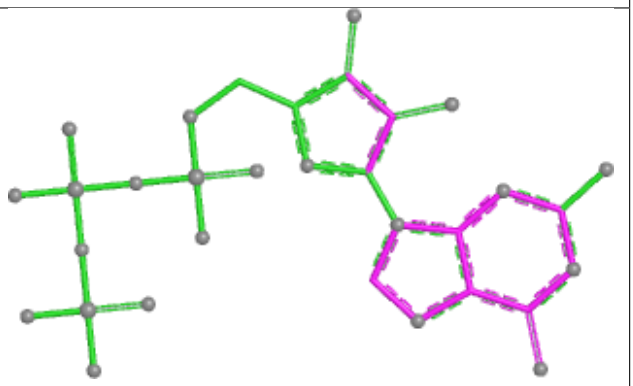


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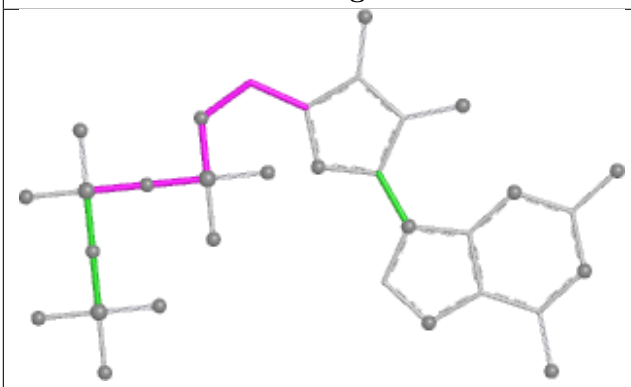
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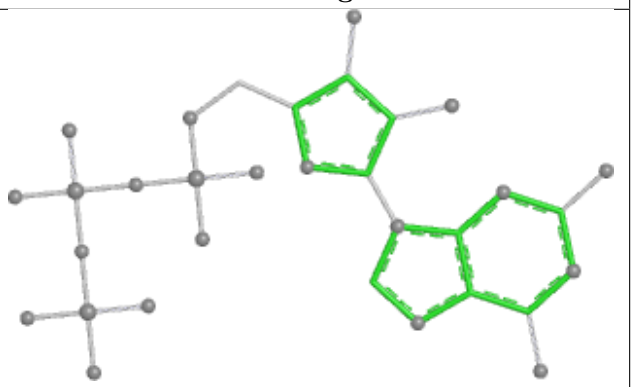
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Bond angles

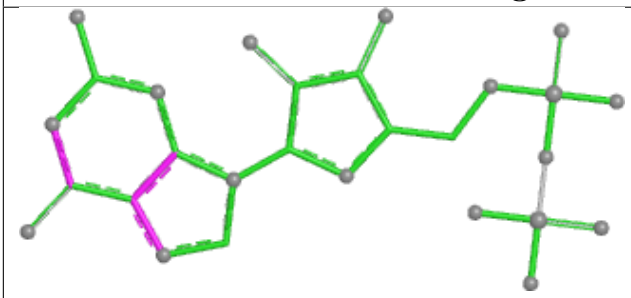


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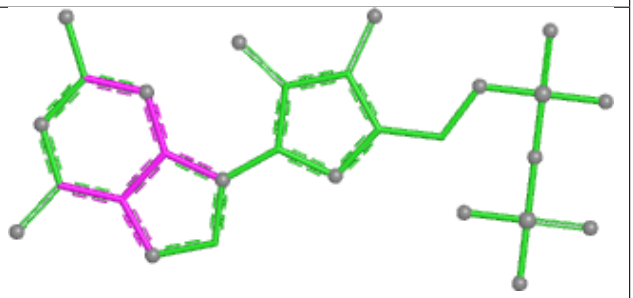


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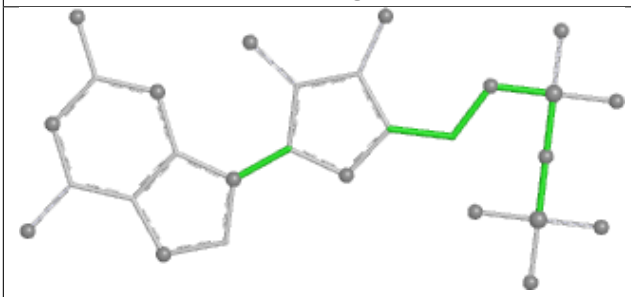
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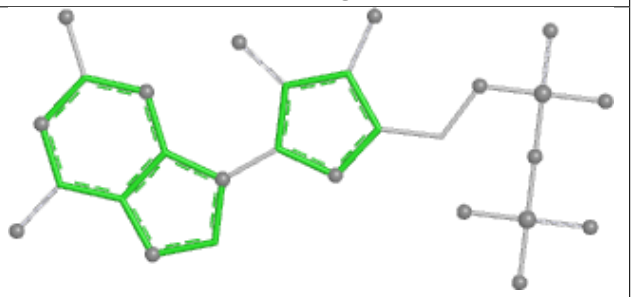
Bond lengths



Bond angles

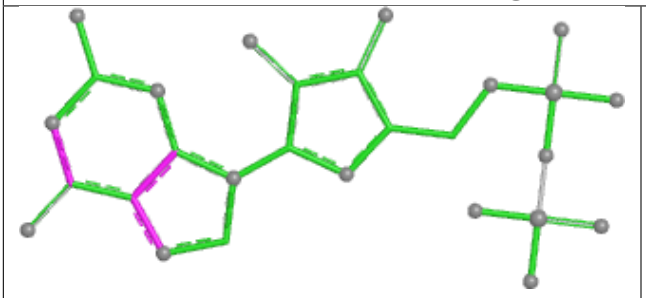


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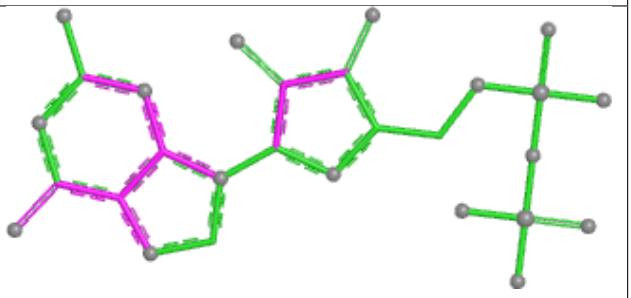


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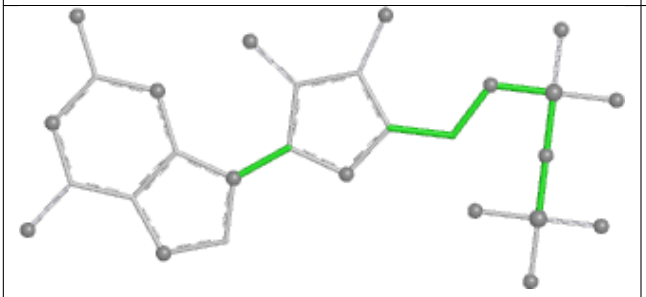
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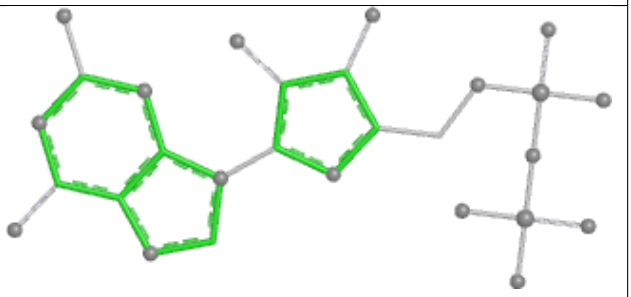
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Bond angles

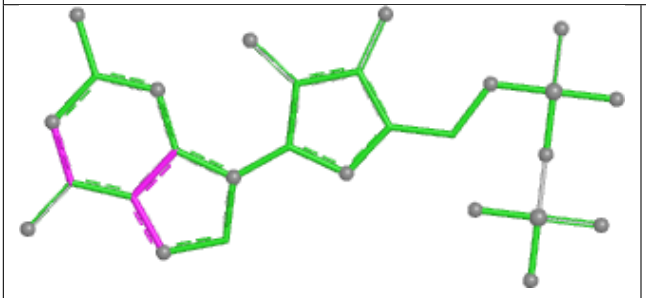


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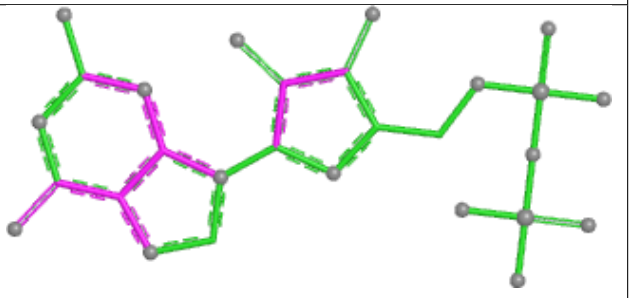


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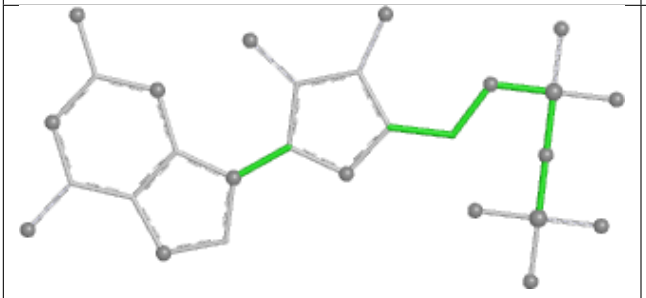
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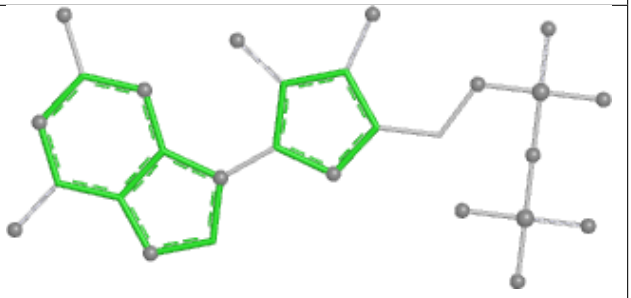
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Bond angles

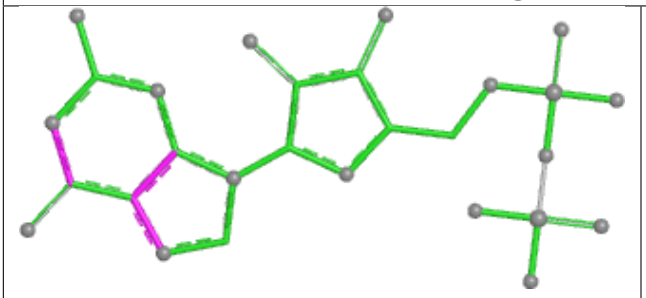


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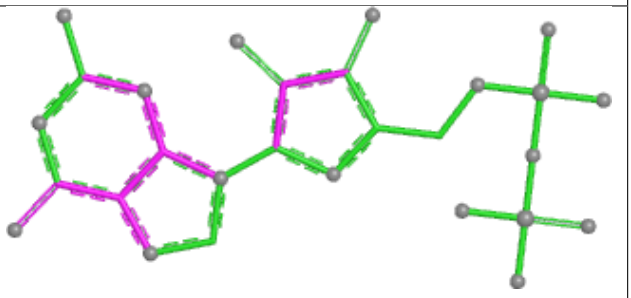


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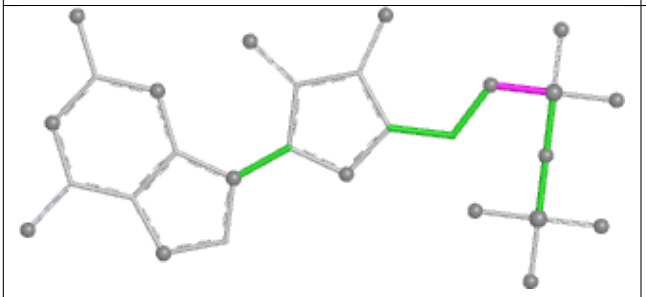
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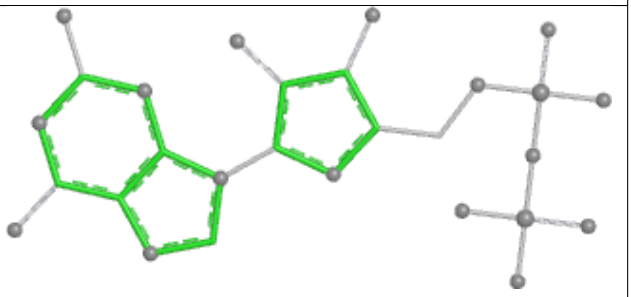
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Bond angles

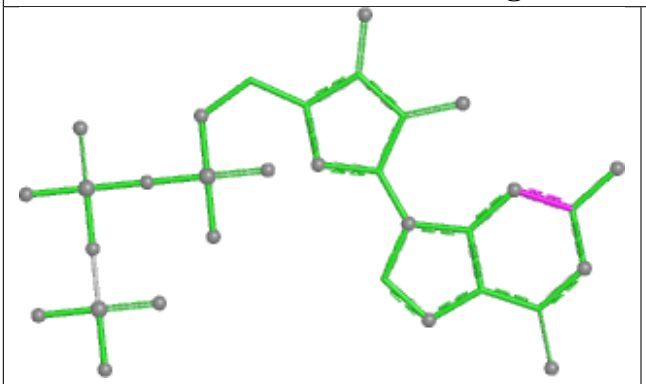


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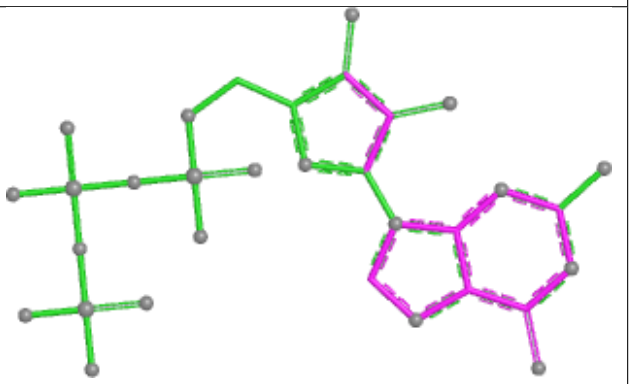


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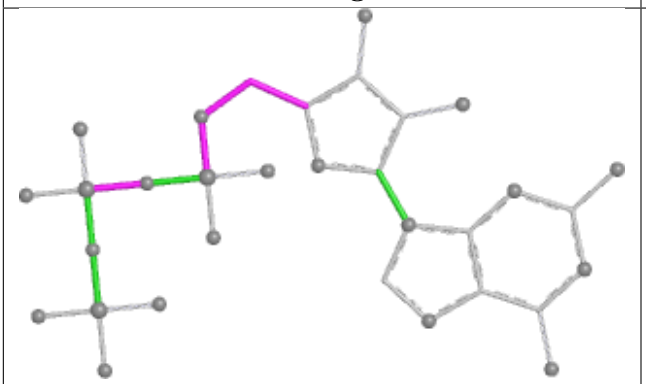
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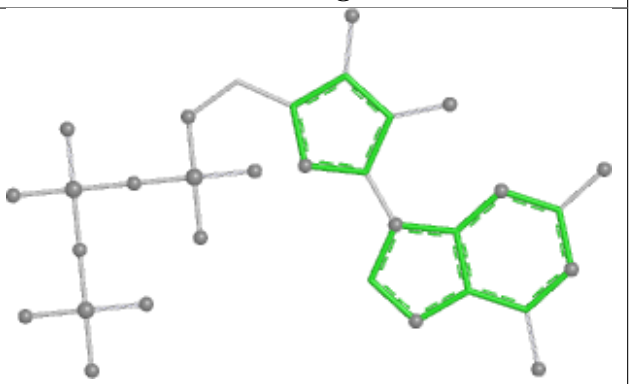
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Bond angles

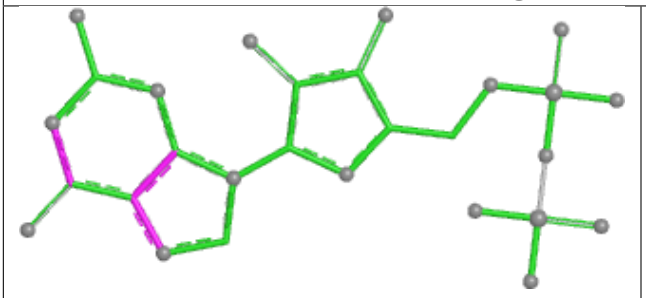


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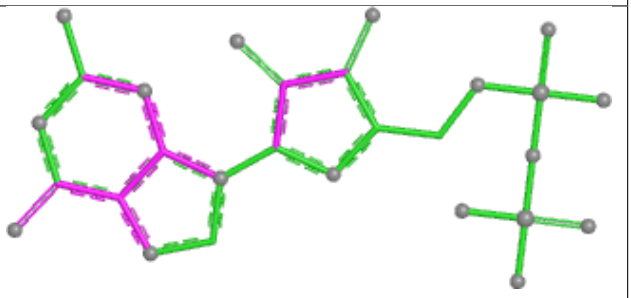


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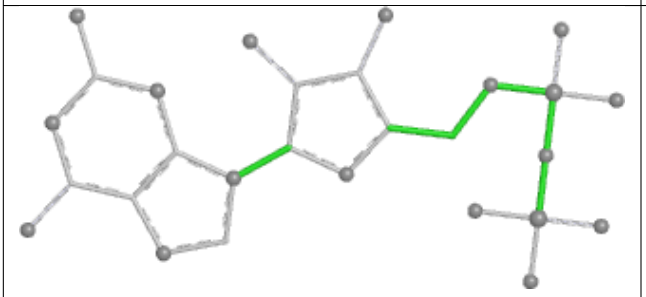
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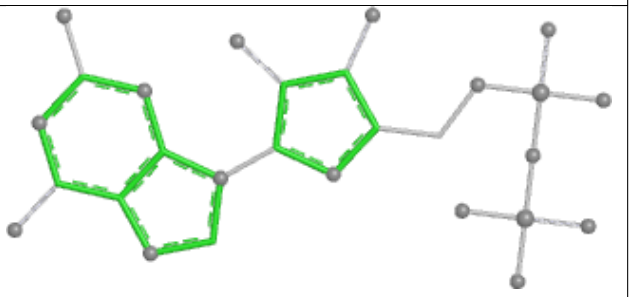
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Bond angles

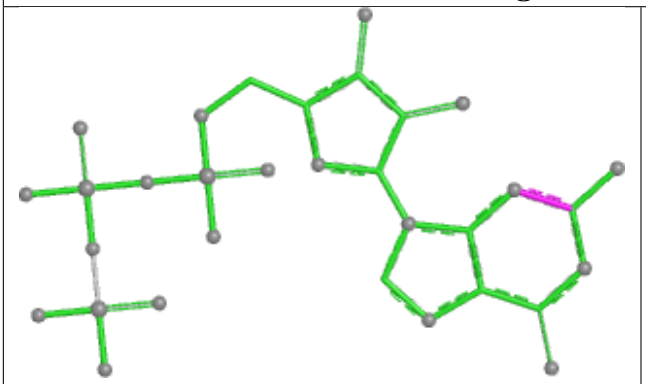


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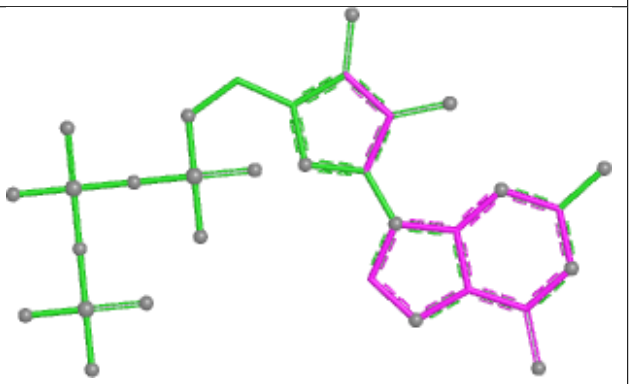


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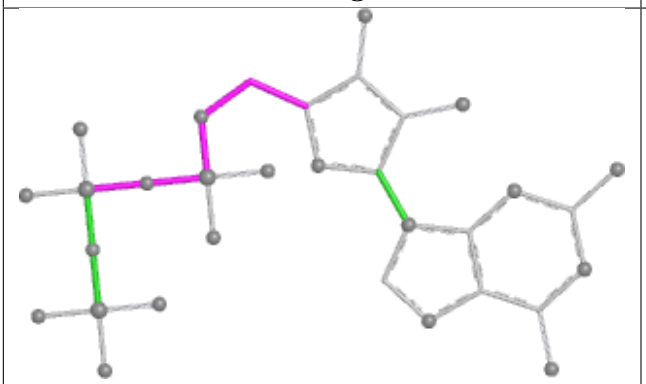
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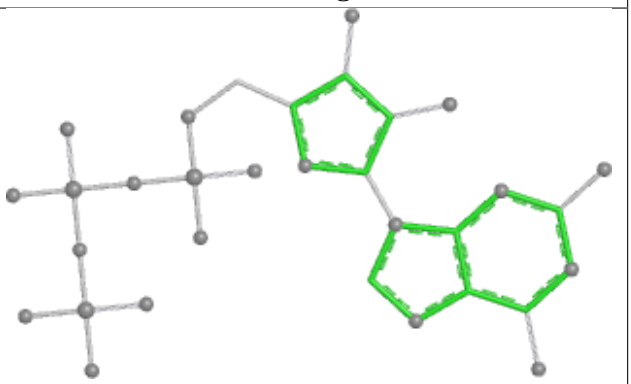
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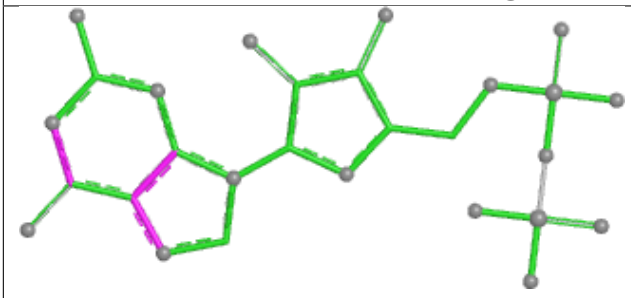


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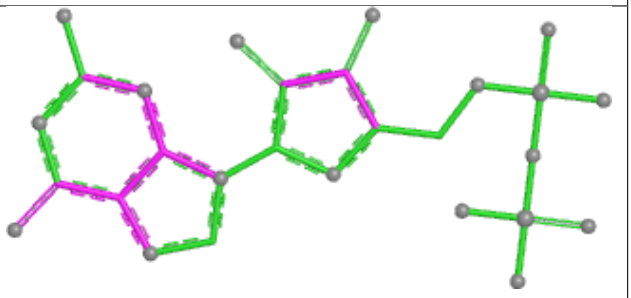


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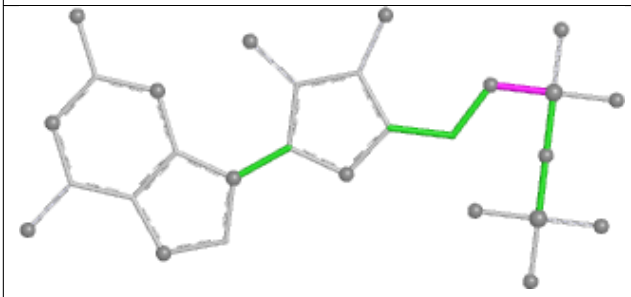
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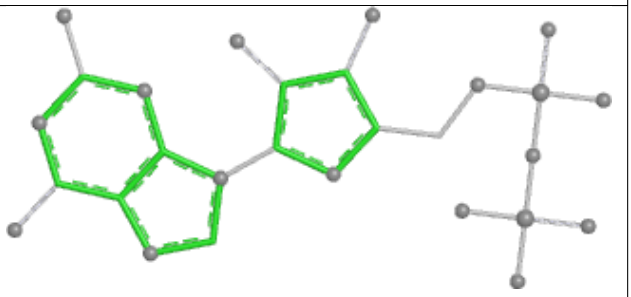
Bond lengths



Bond angles

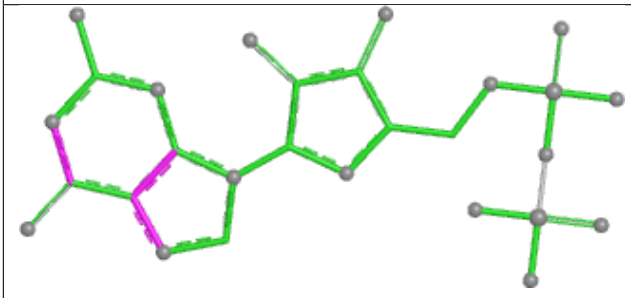


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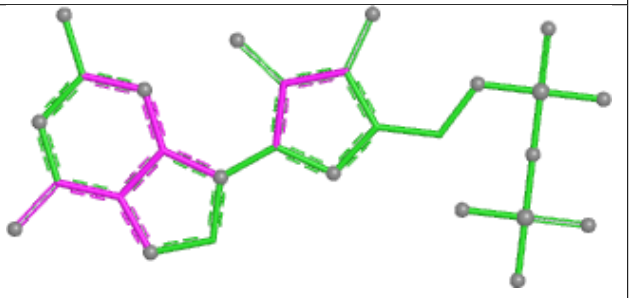


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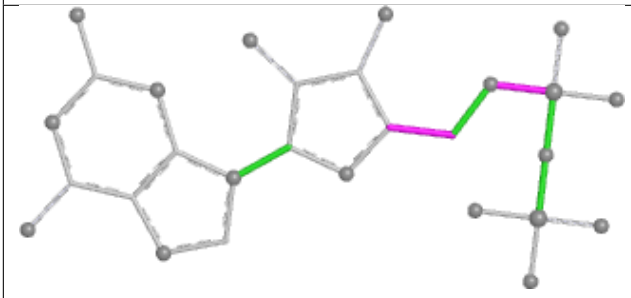
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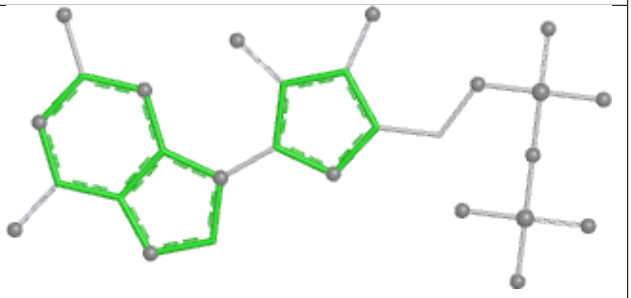
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Bond angles

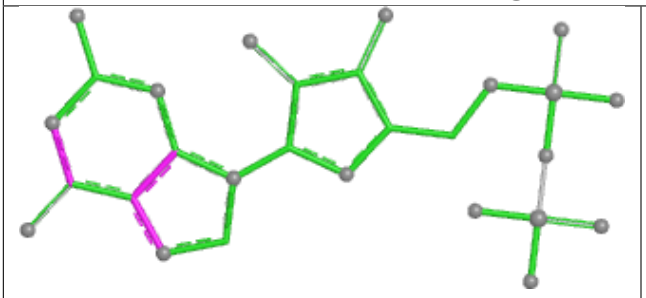


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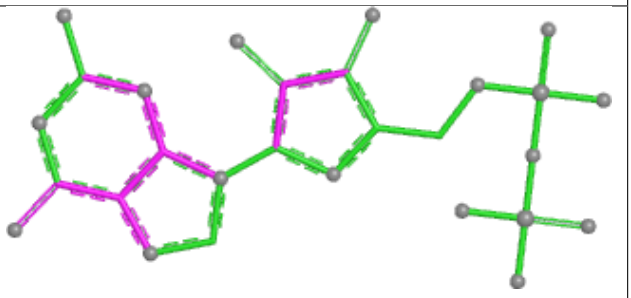


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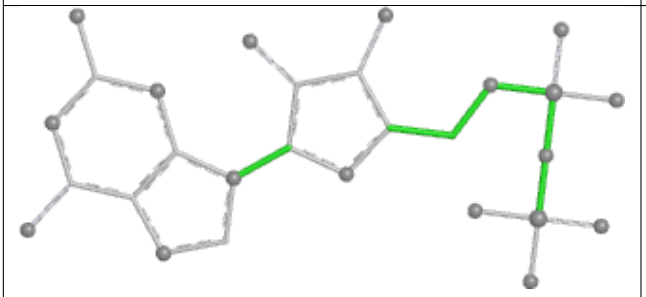
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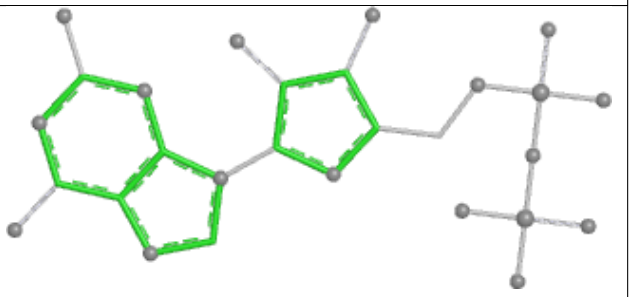
Bond lengths



Bond angles

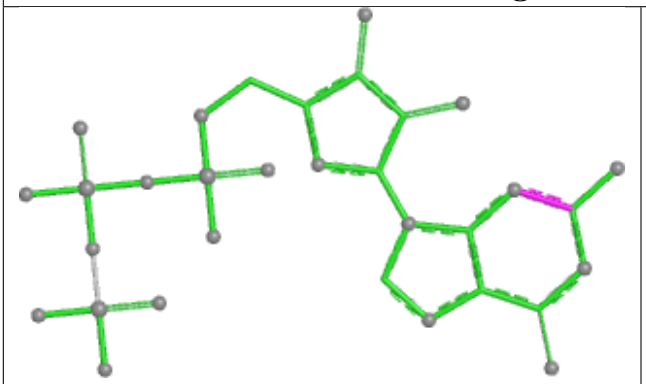


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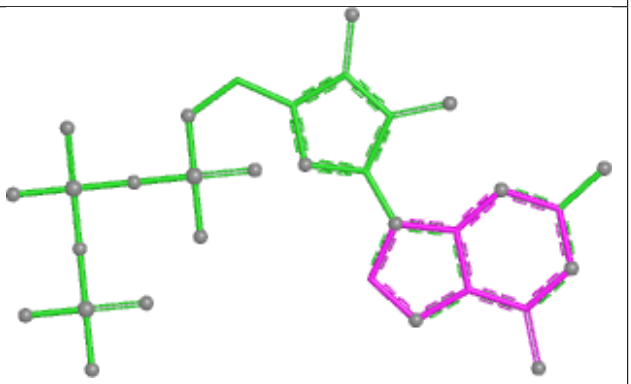


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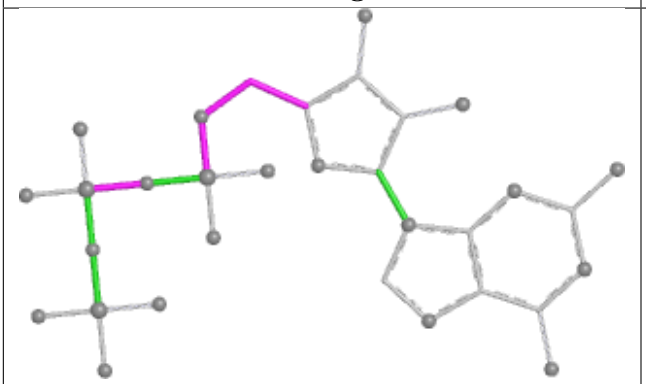
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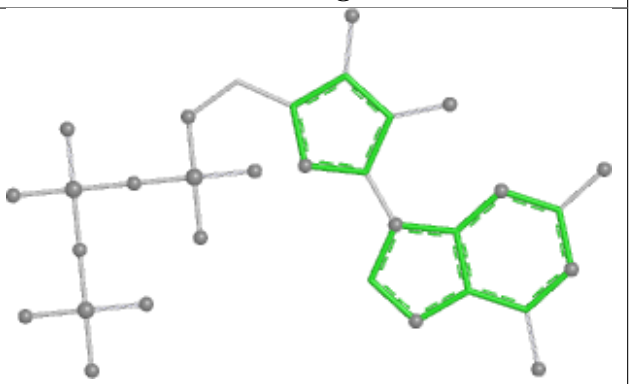
Bond lengths



Bond angles

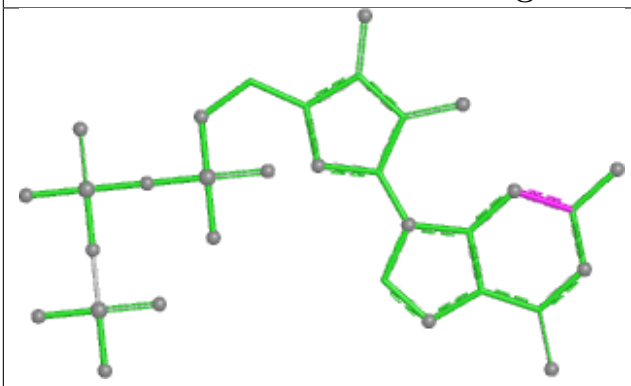


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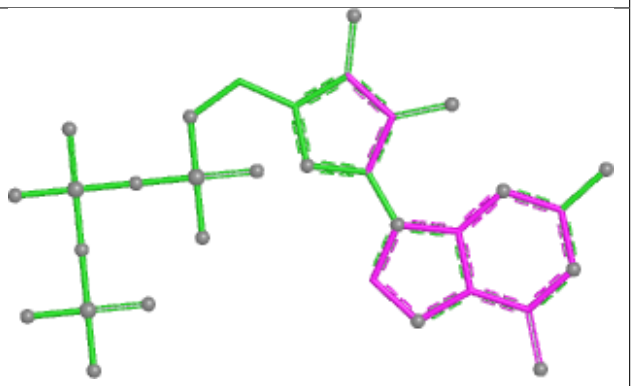


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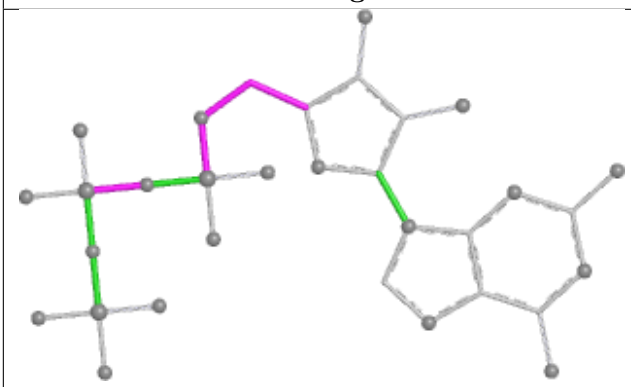
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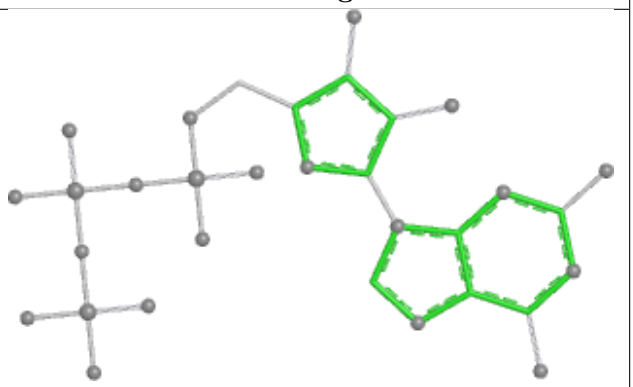
Bond lengths



Bond angles

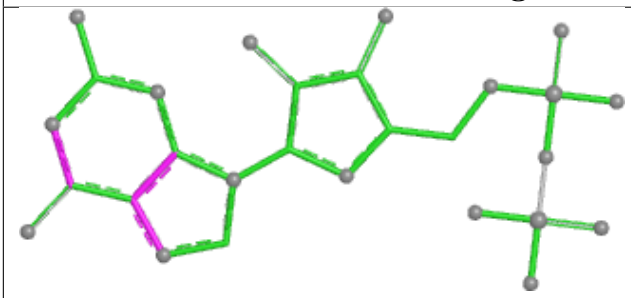


Torsions

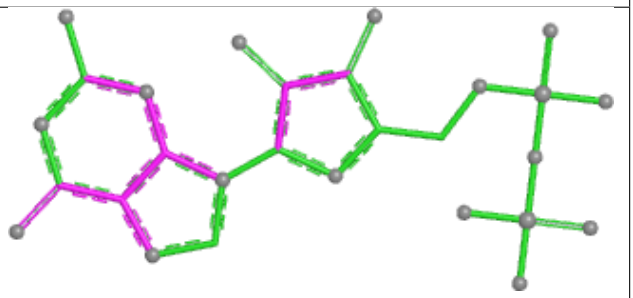


Rings

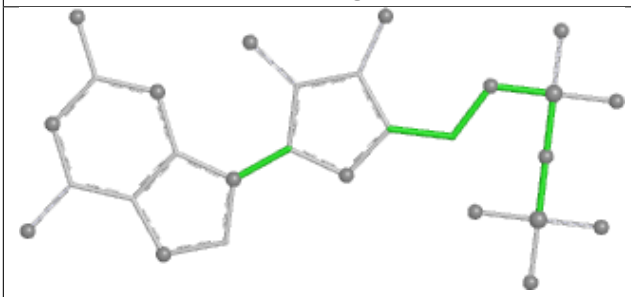
Ligand GDP LN 501



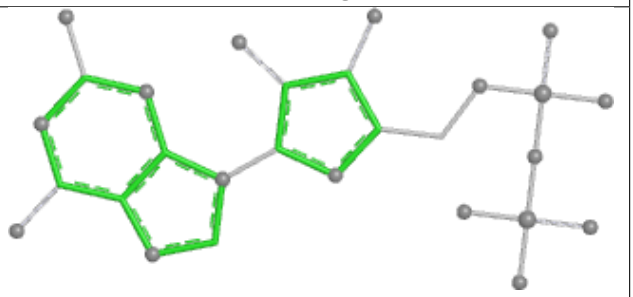
Bond lengths



Bond angles

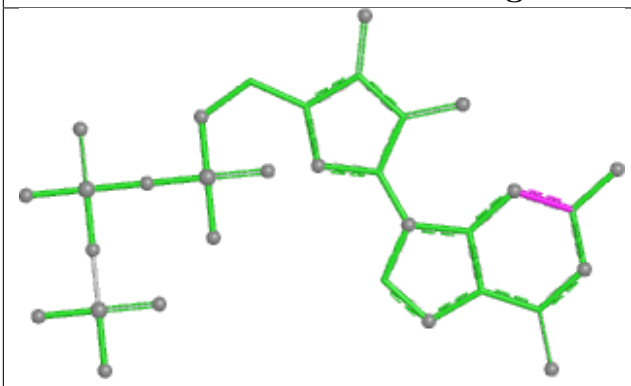


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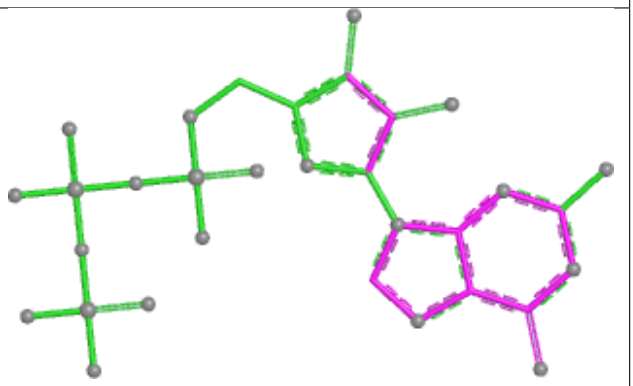


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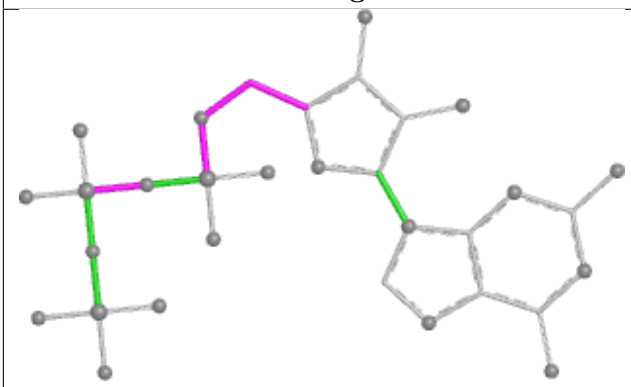
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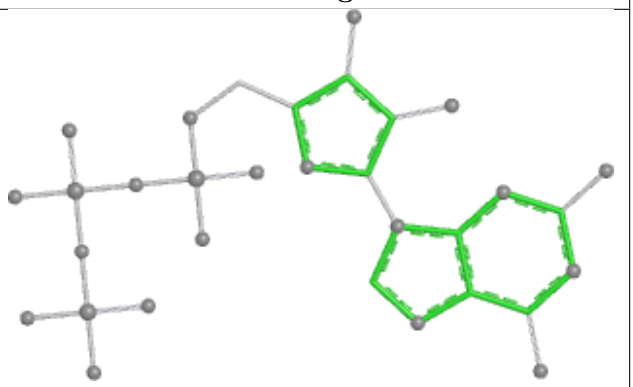
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Bond angles

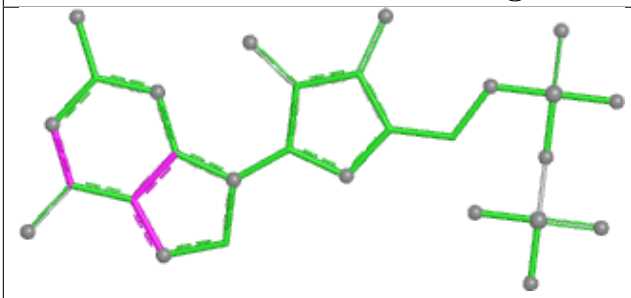


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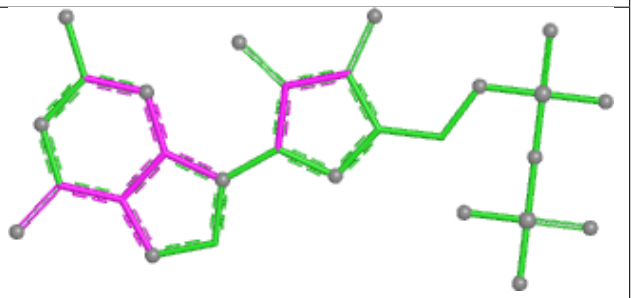


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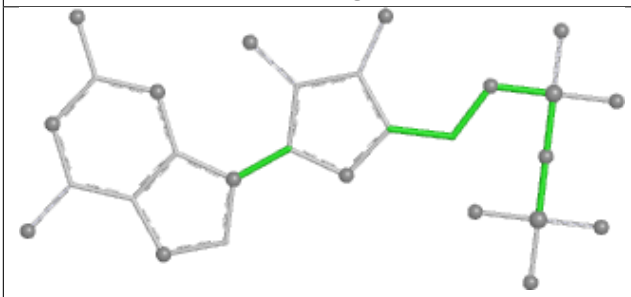
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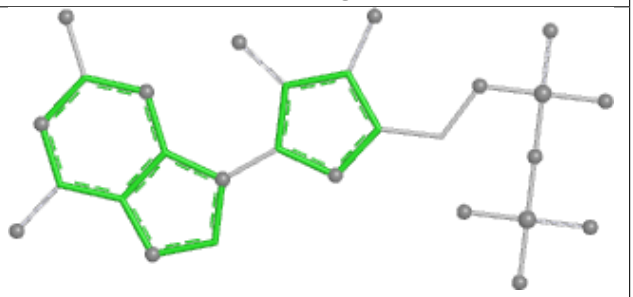
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Bond angles

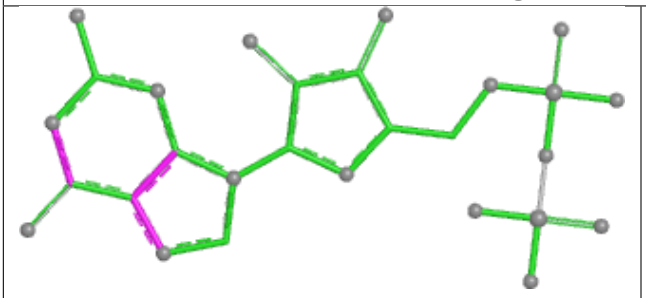


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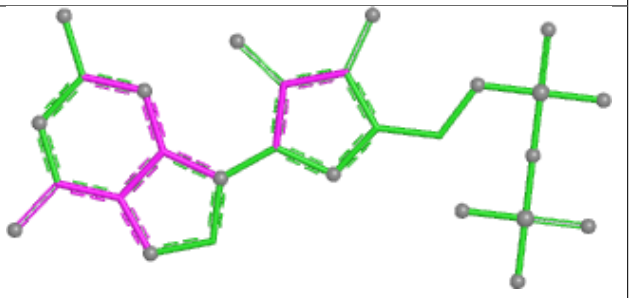


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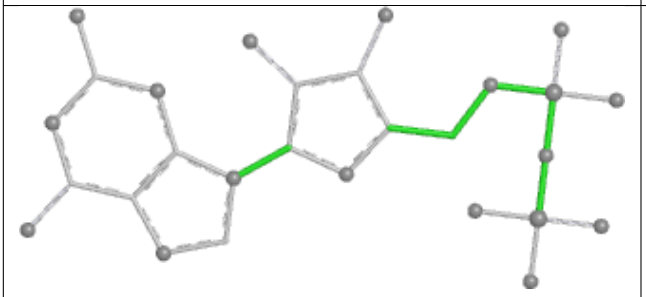
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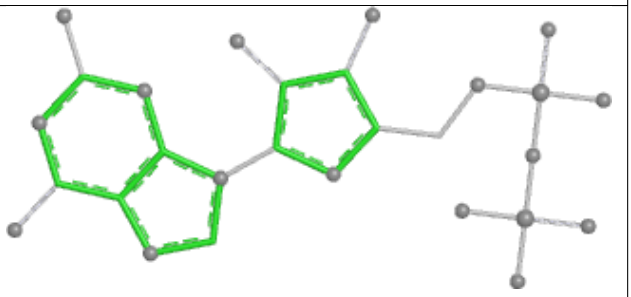
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Bond angles

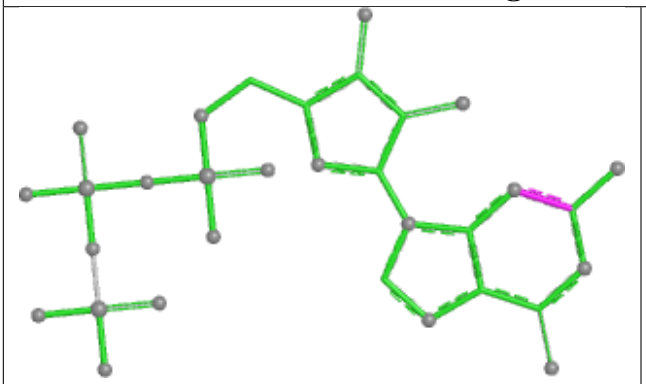


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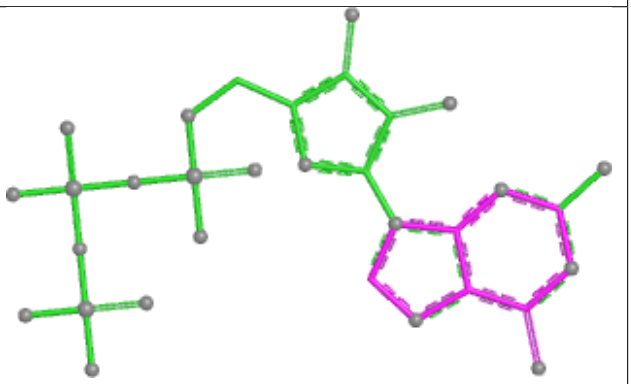


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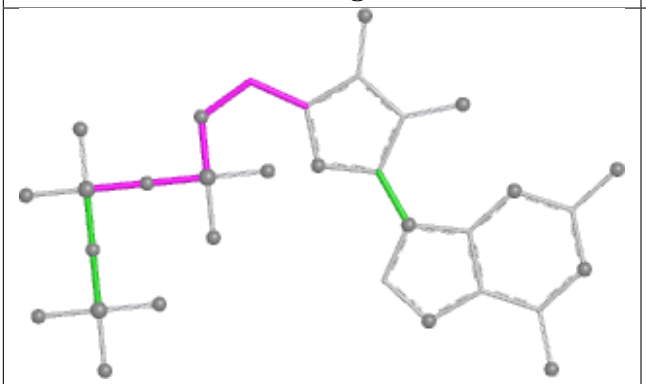
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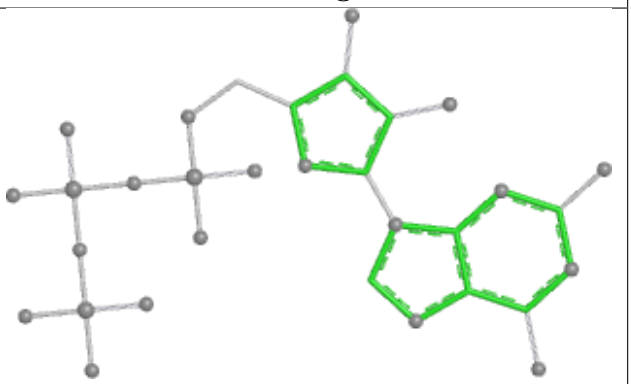
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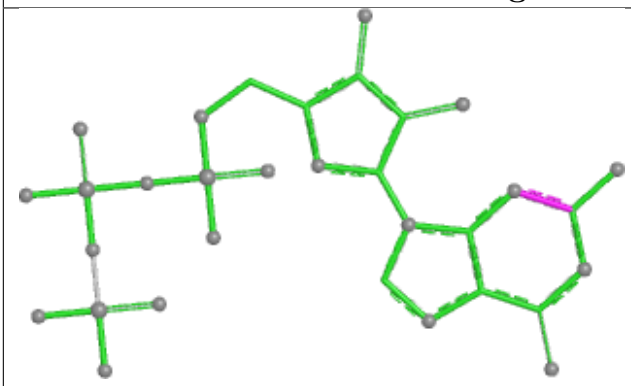


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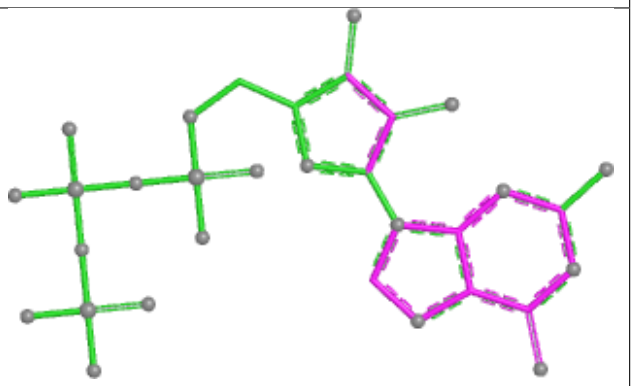


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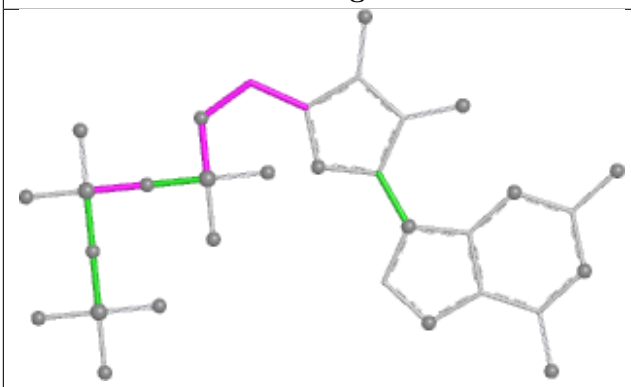
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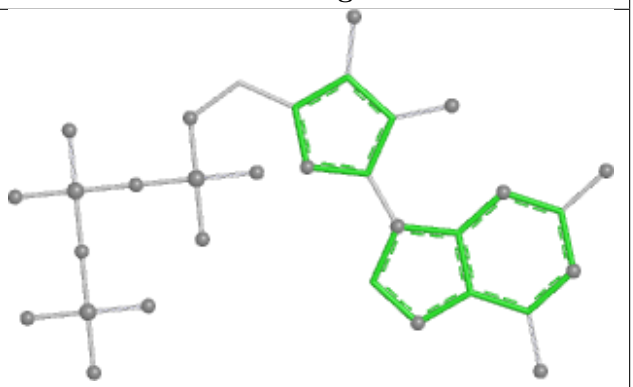
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Bond angles

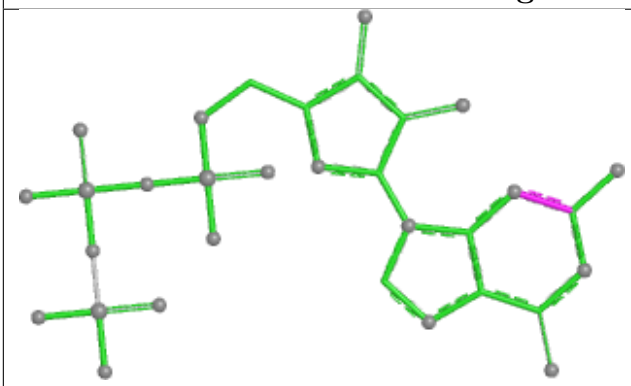


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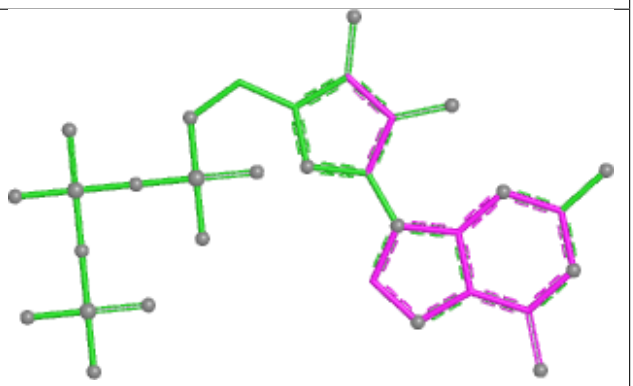


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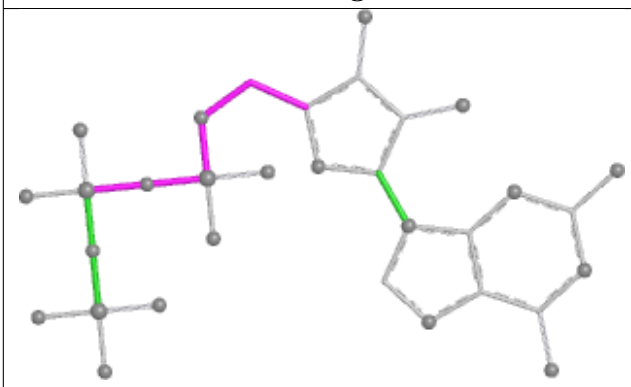
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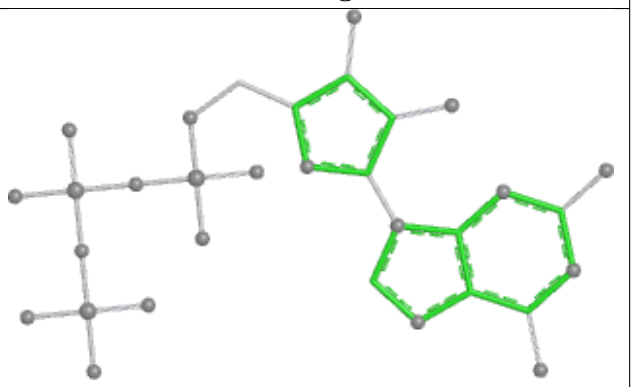
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Bond angles

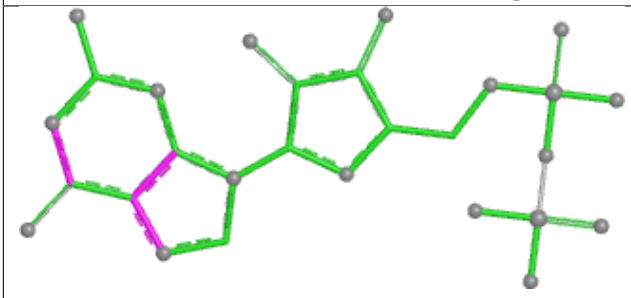


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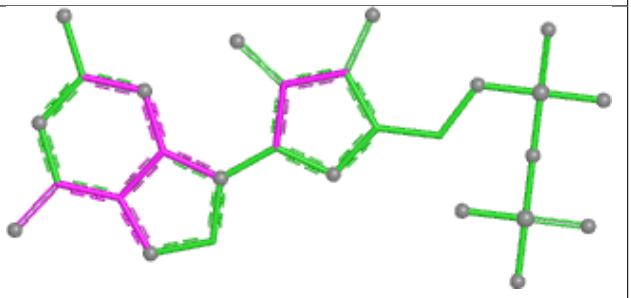


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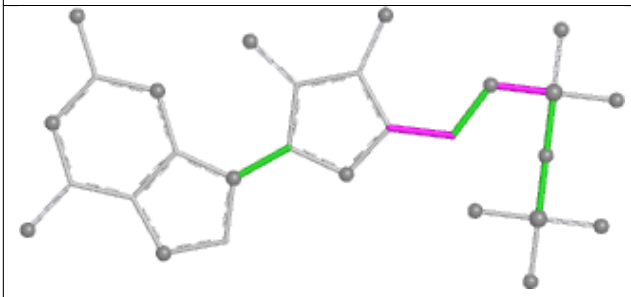
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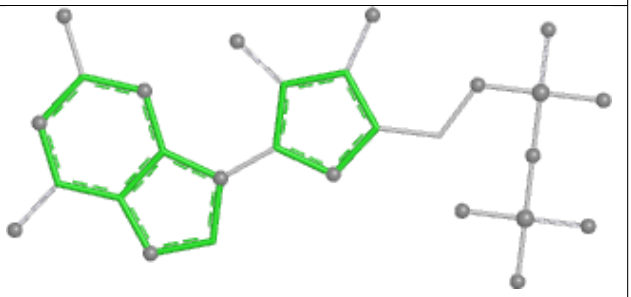
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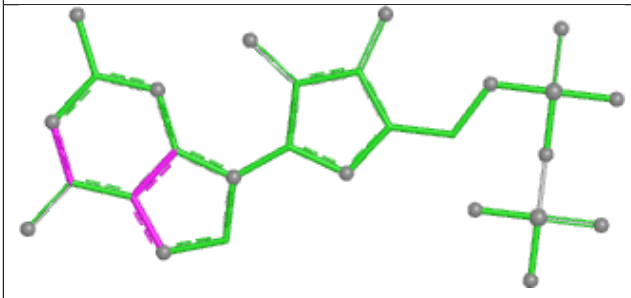


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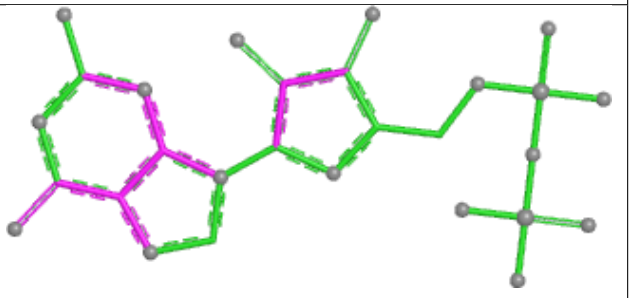


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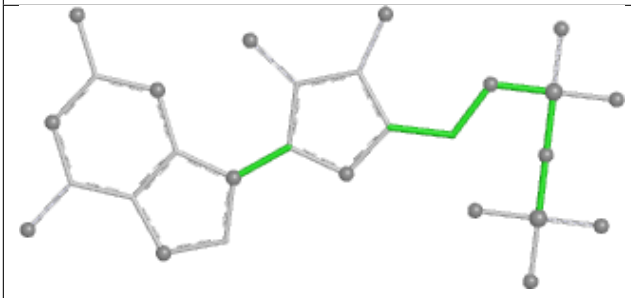
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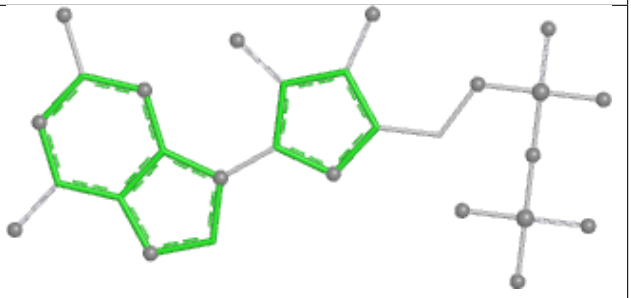
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Bond angles

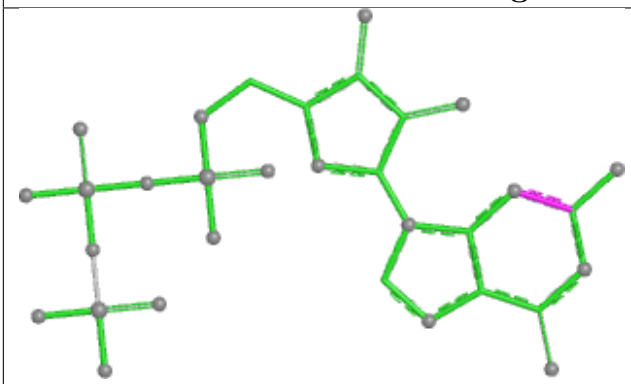


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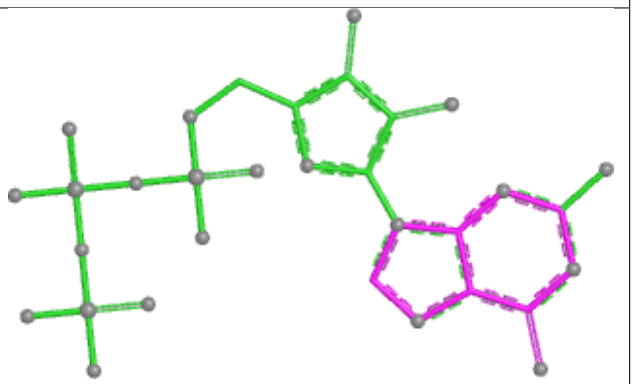


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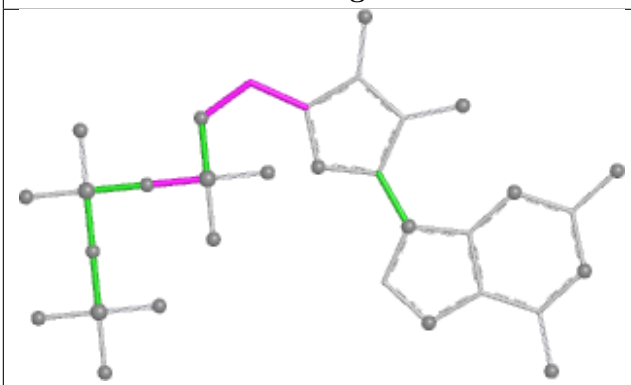
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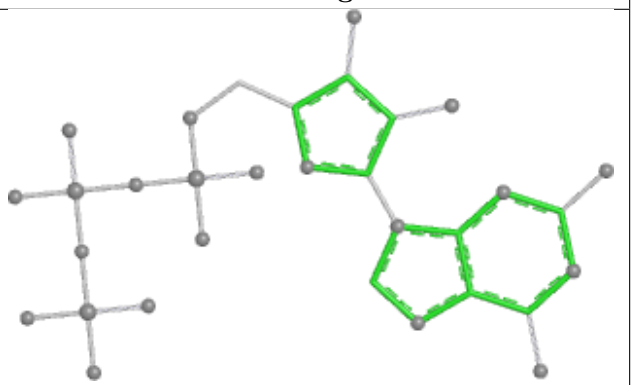
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Bond angles

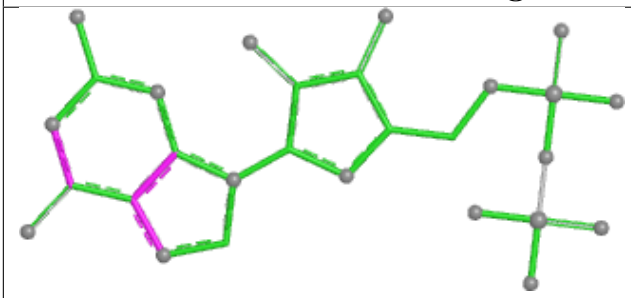


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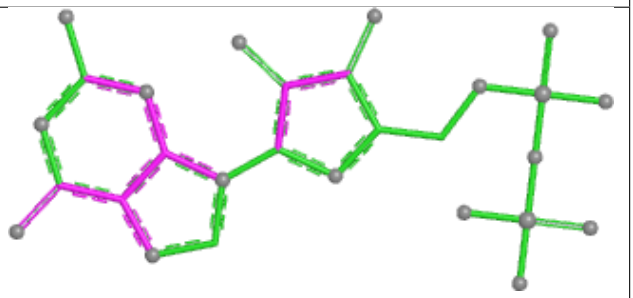


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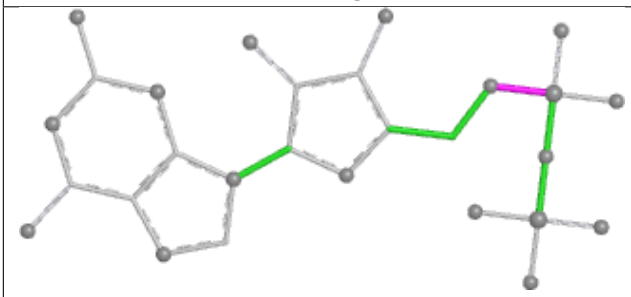
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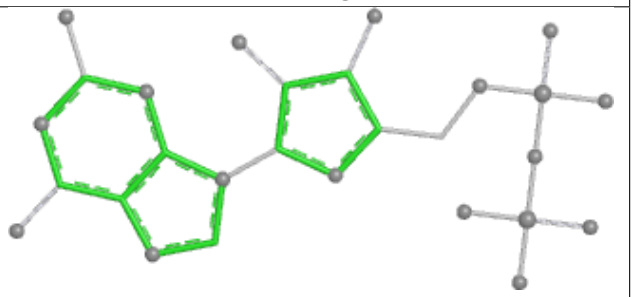
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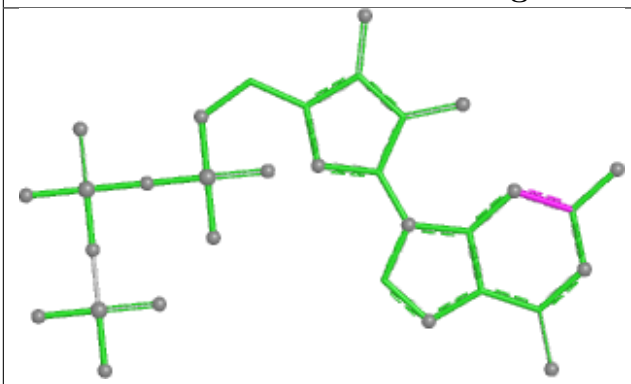


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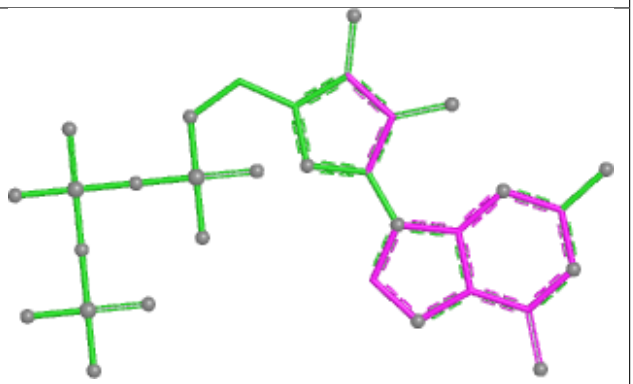


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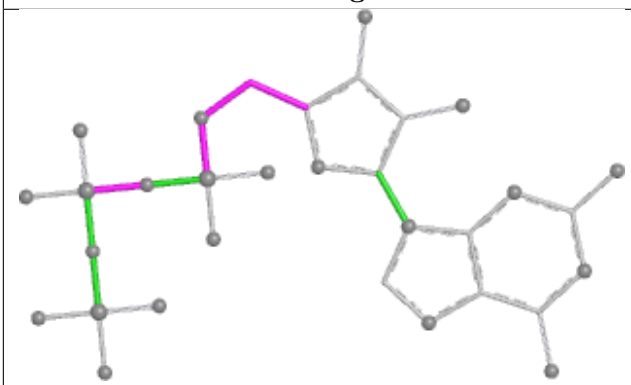
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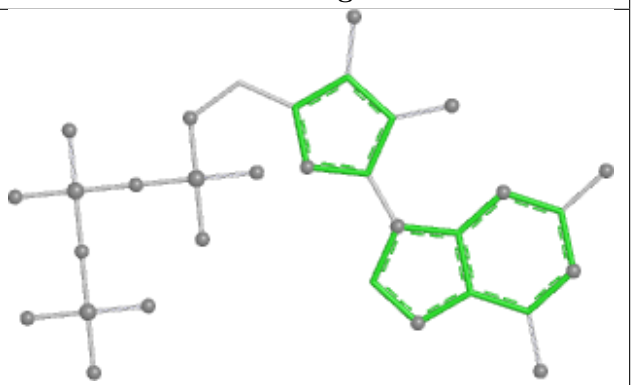
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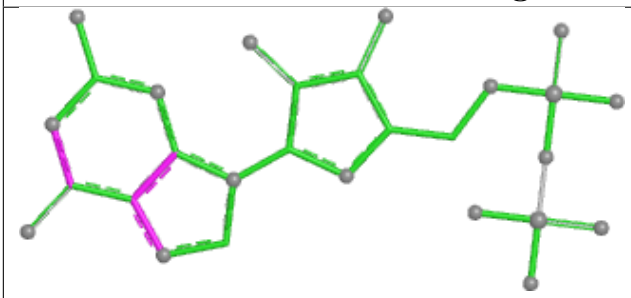


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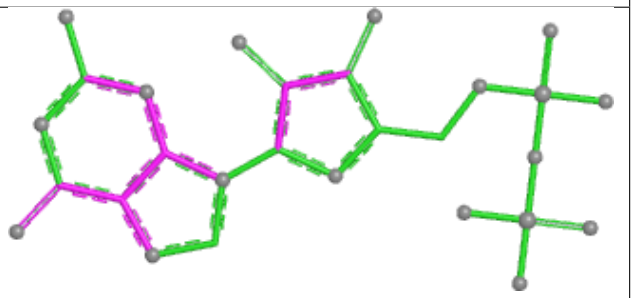


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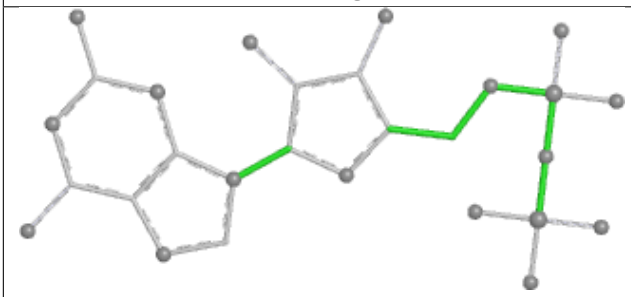
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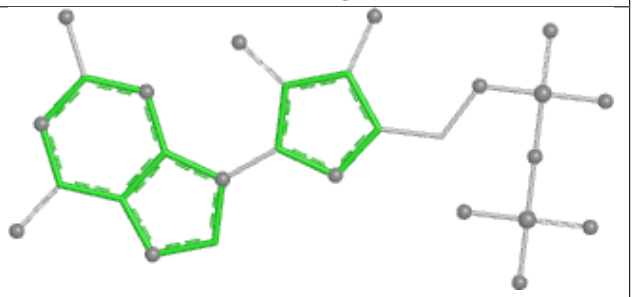
Bond lengths



Bond angles

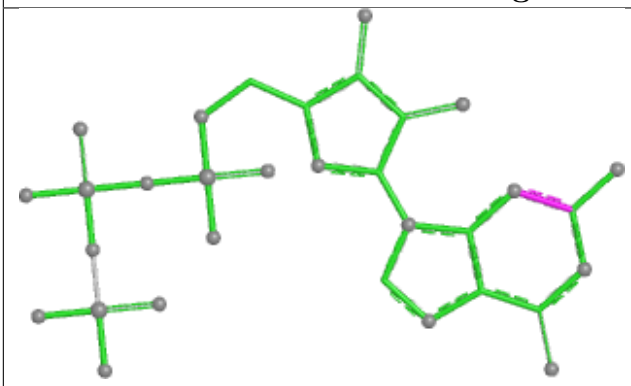


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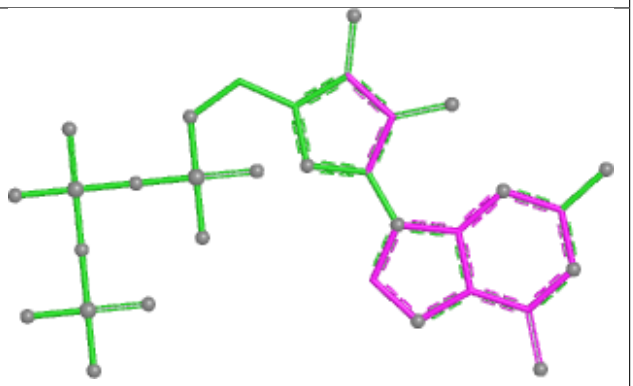


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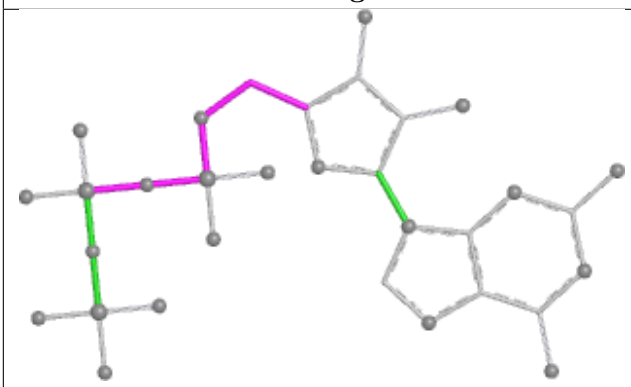
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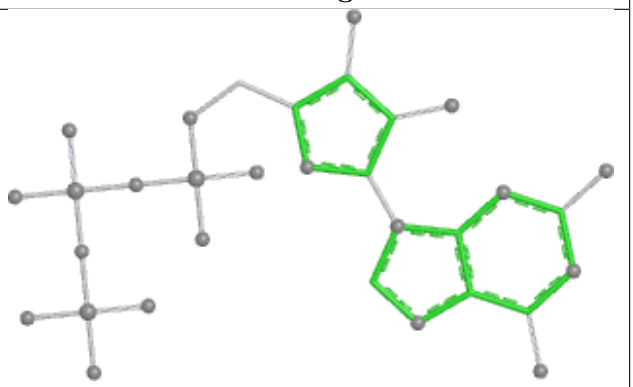
Bond lengths



Bond angles

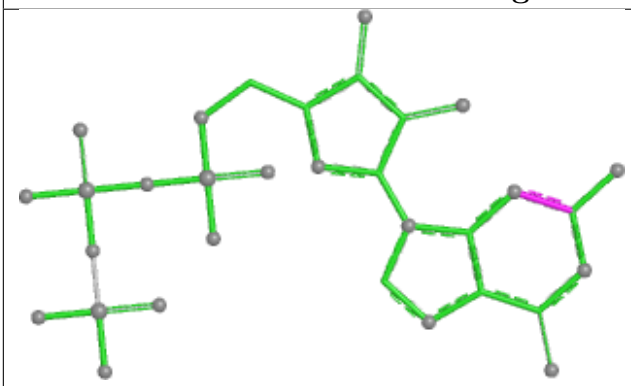


Torsions

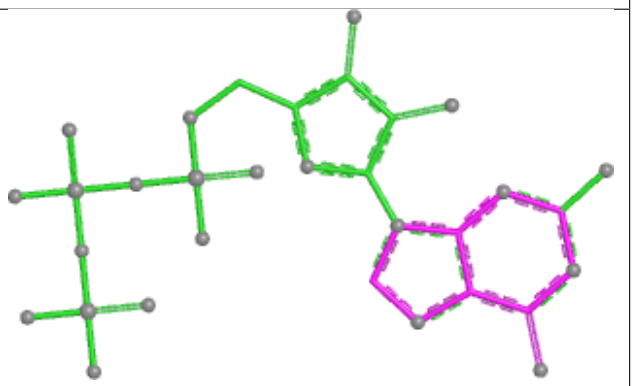


Rings

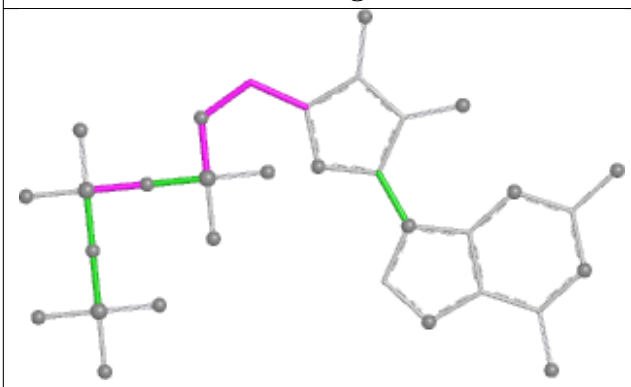
Ligand GTP FC 501



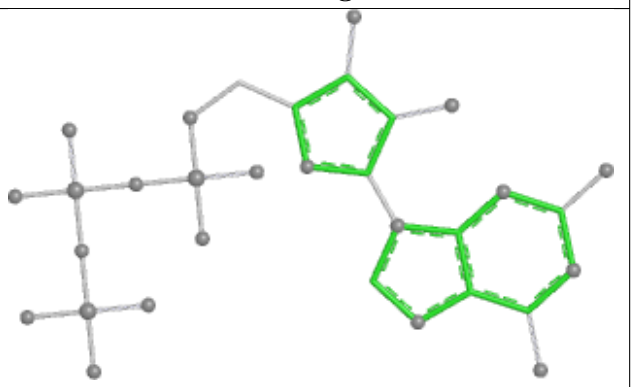
Bond lengths



Bond angles

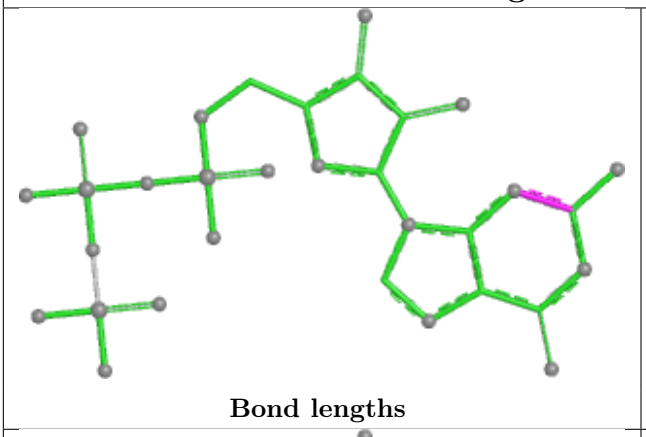


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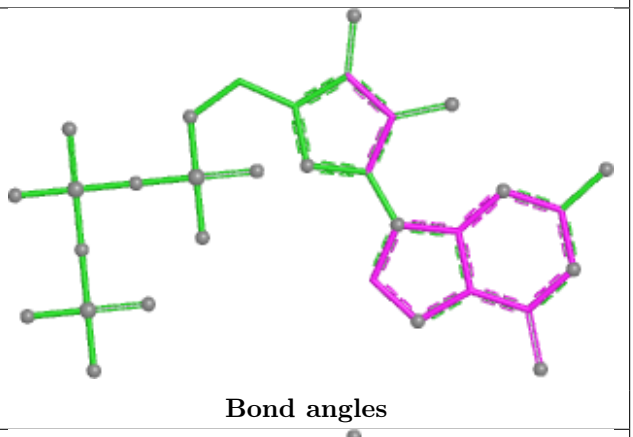


Rings

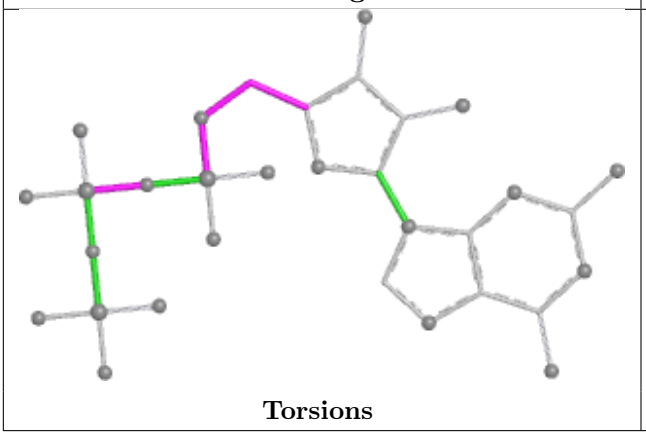
Ligand GTP UK 501



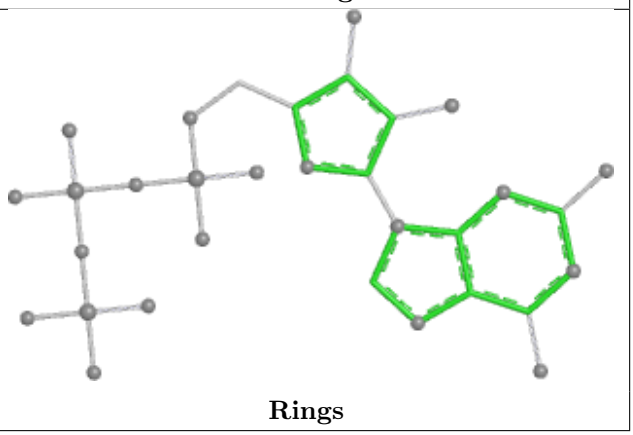
Bond lengths



Bond angles

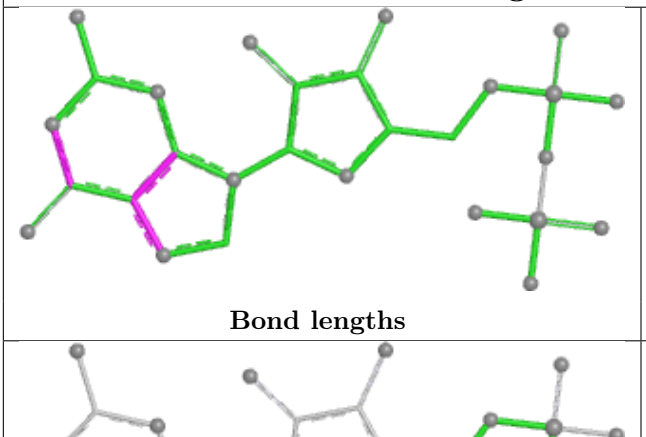


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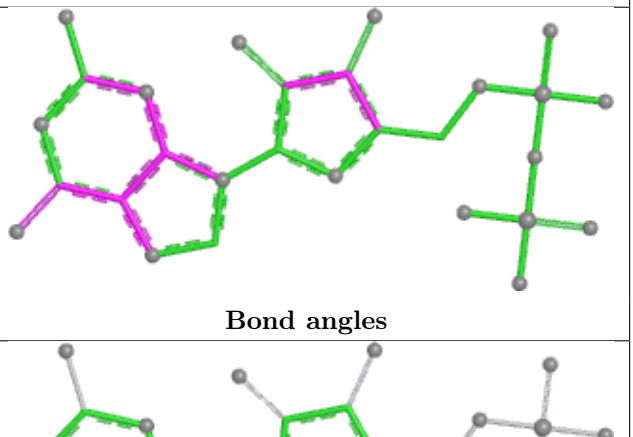


Rings

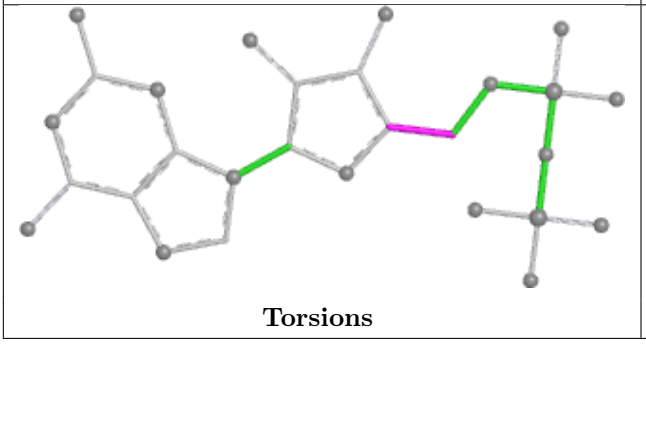
Ligand GDP MJ 501



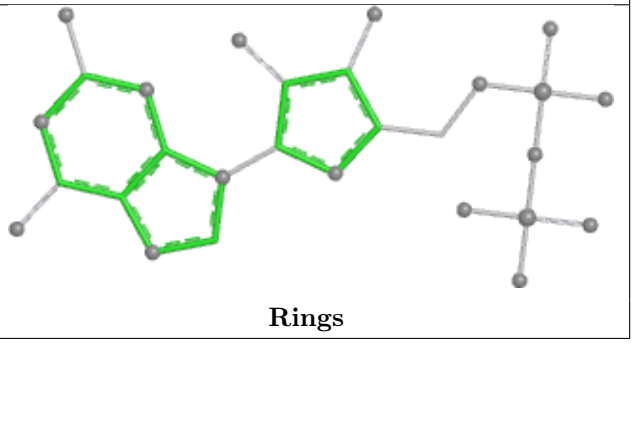
Bond lengths



Bond angles

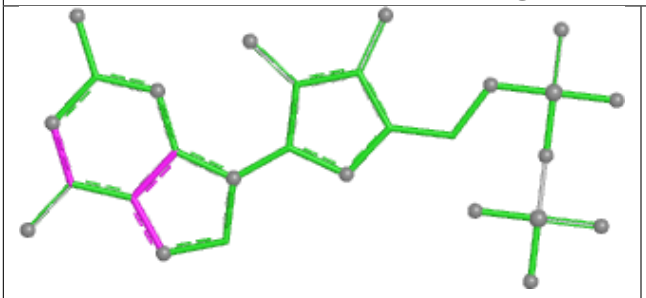


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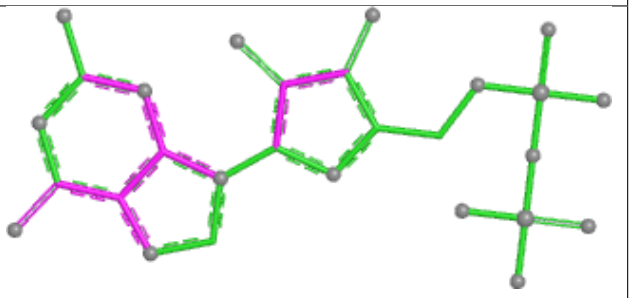


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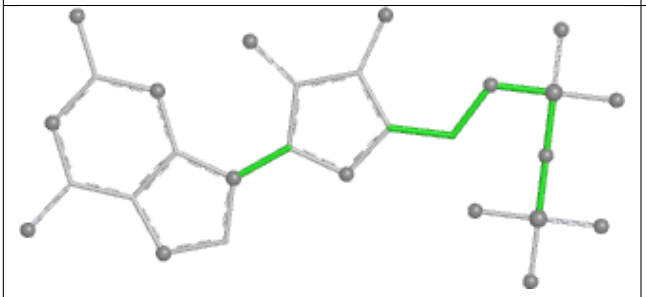
Ligand GDP IH 501



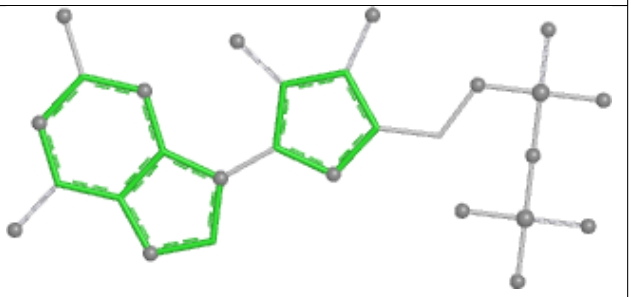
Bond lengths



Bond angles

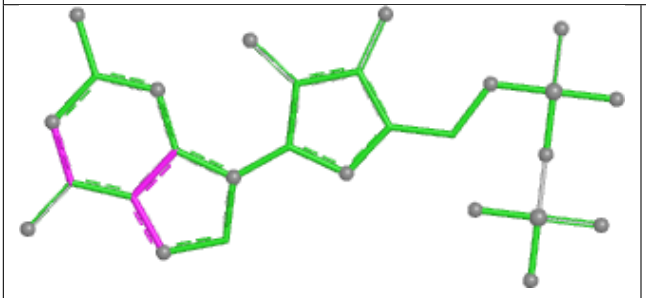


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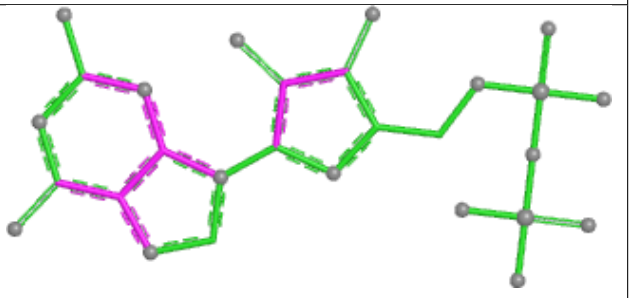


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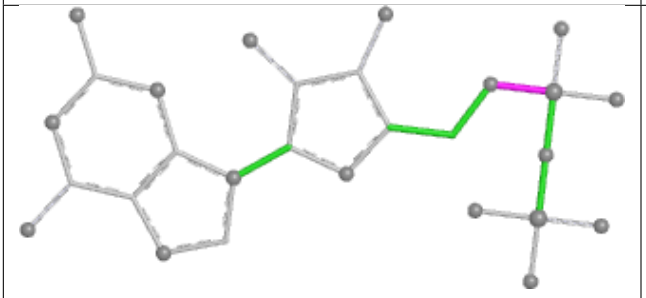
Ligand GDP HJ 501



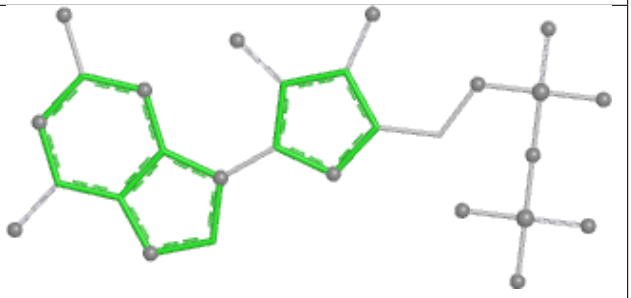
Bond lengths



Bond angles

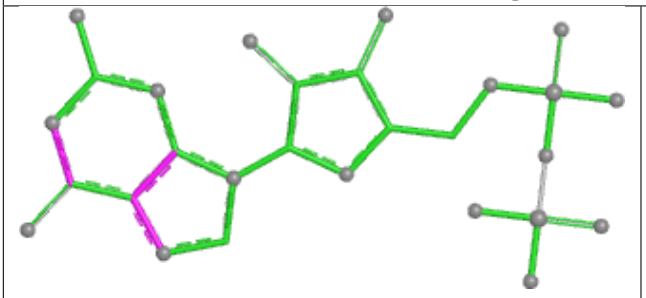


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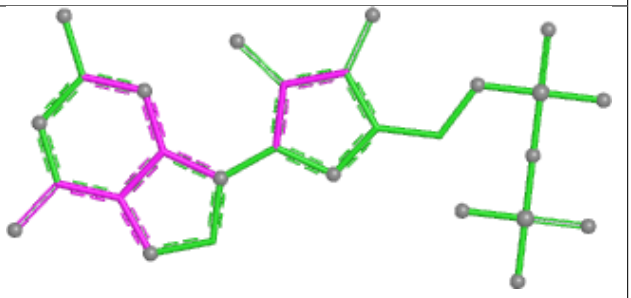


Rings

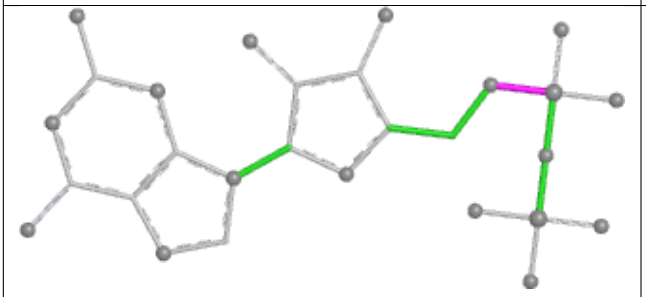
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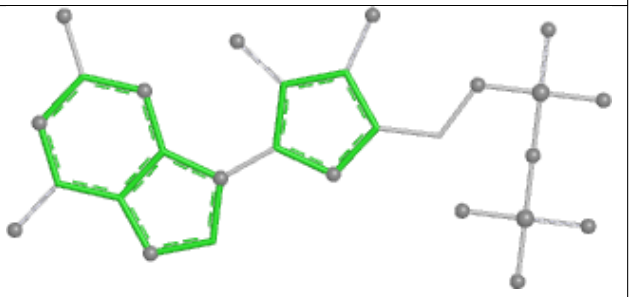
Bond lengths



Bond angles

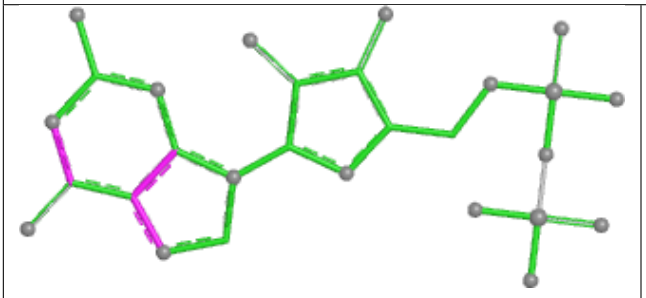


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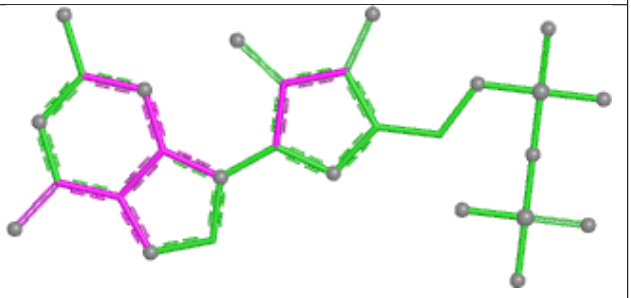


Rings

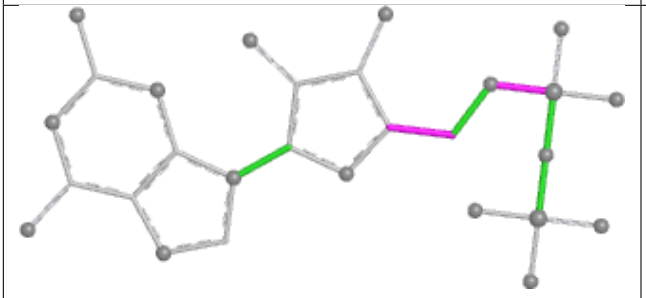
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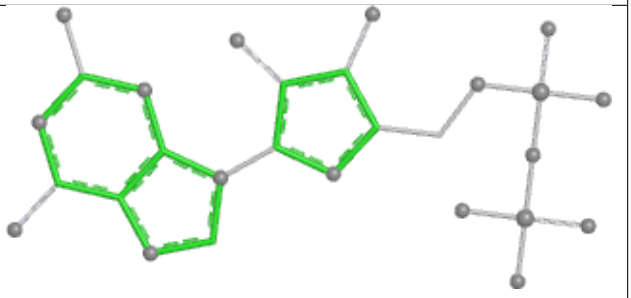
Bond lengths



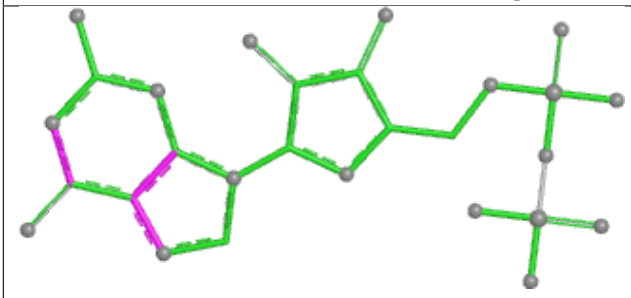
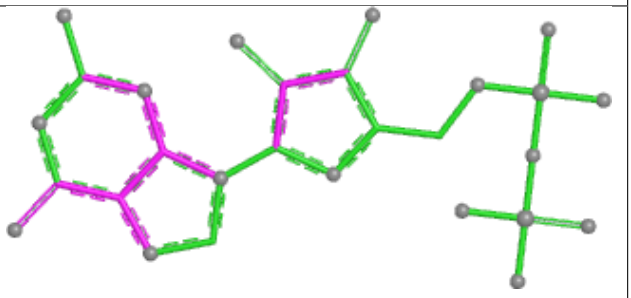
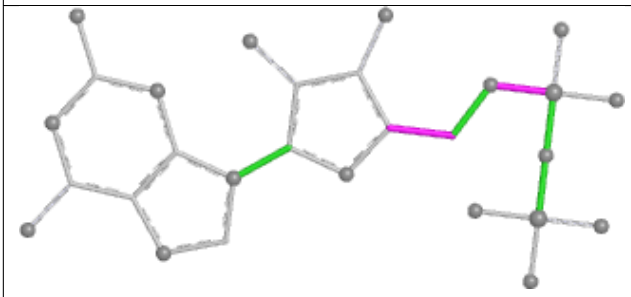
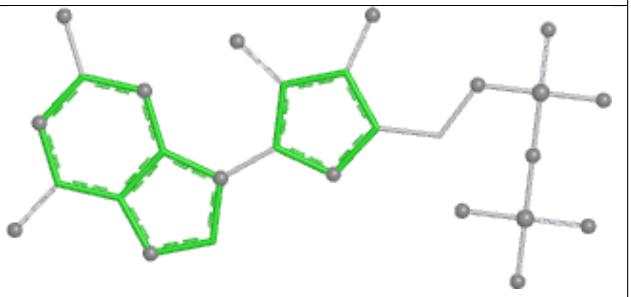
Bond angles

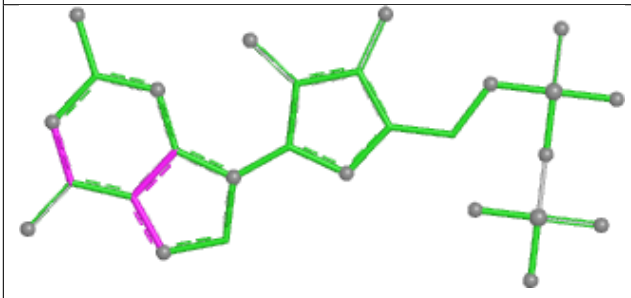
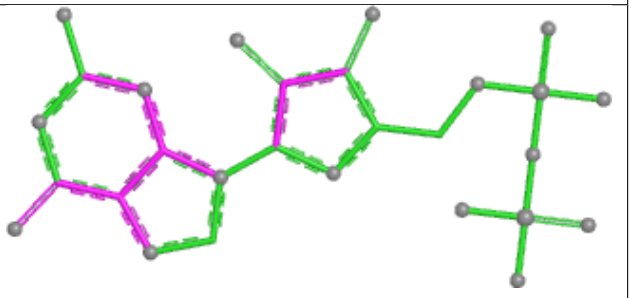
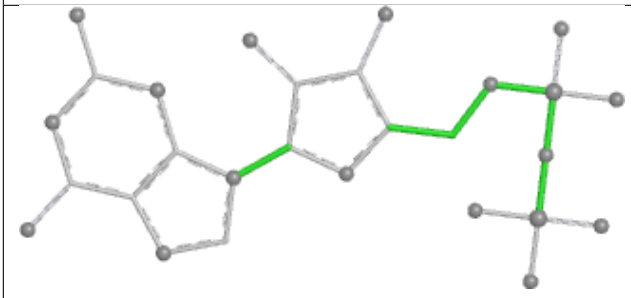
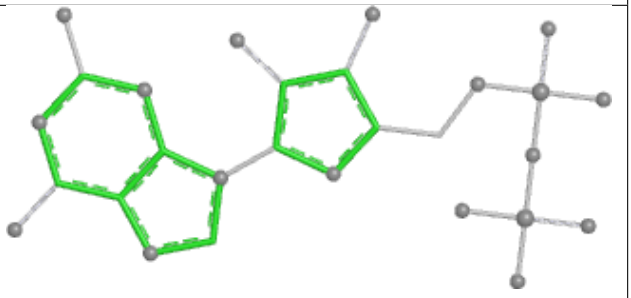


Torsions

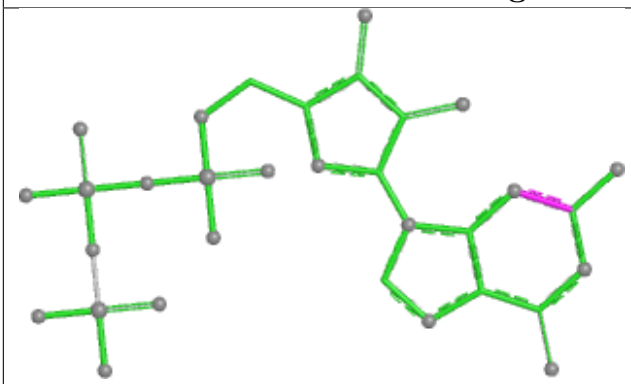


Rings

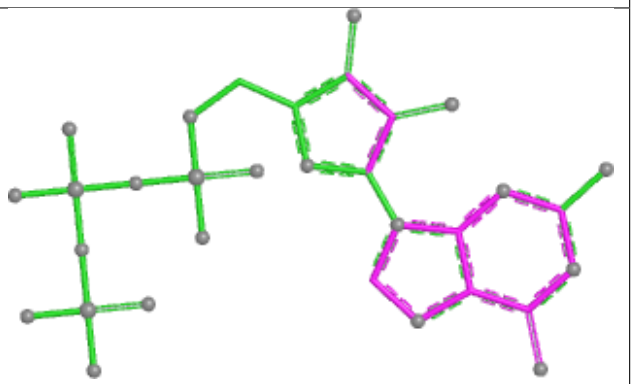
Ligand GDP TD 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GDP BJ 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

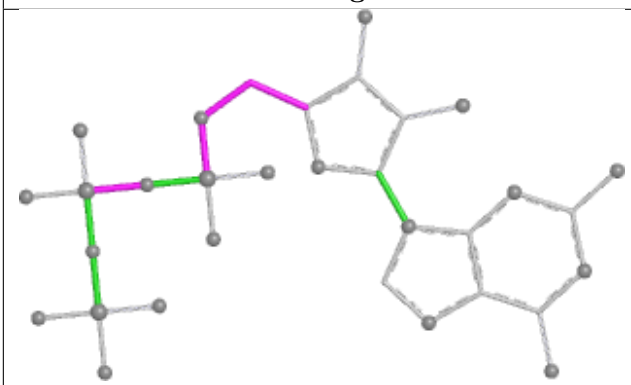
Ligand GTP GC 501



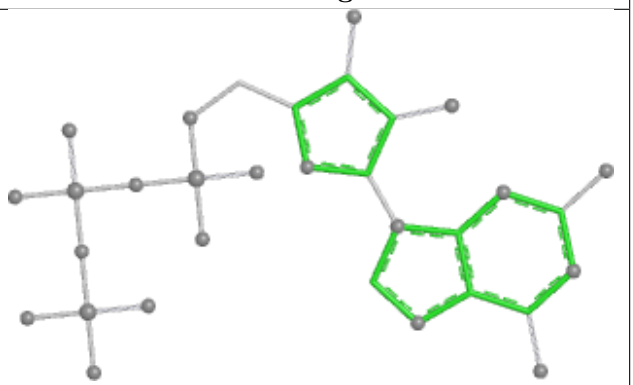
Bond lengths



Bond angles

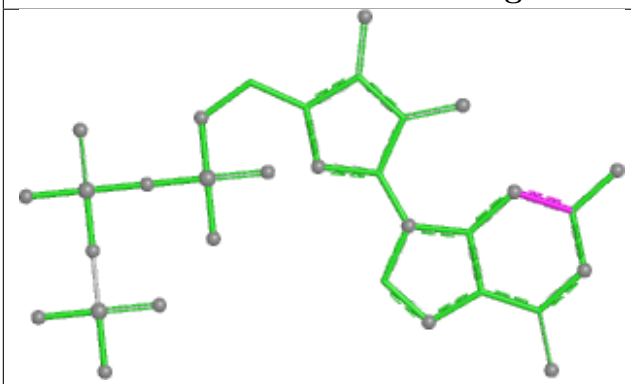


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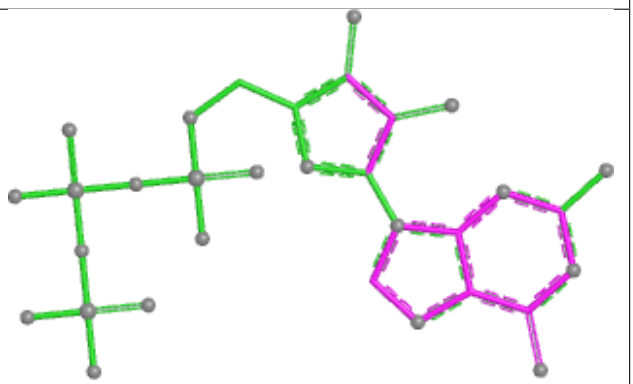


Rings

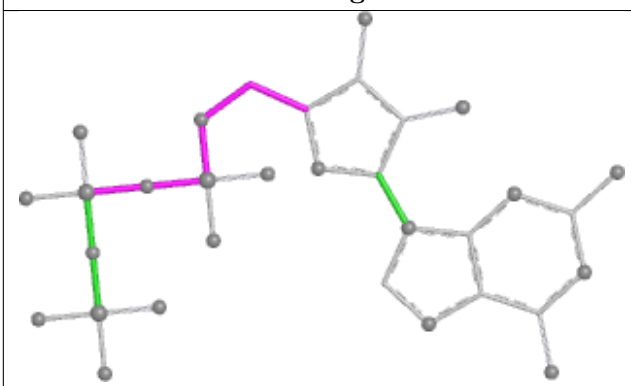
Ligand GTP GM 501



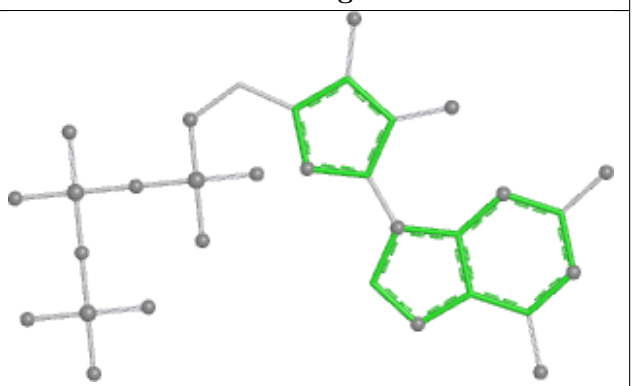
Bond lengths



Bond angles

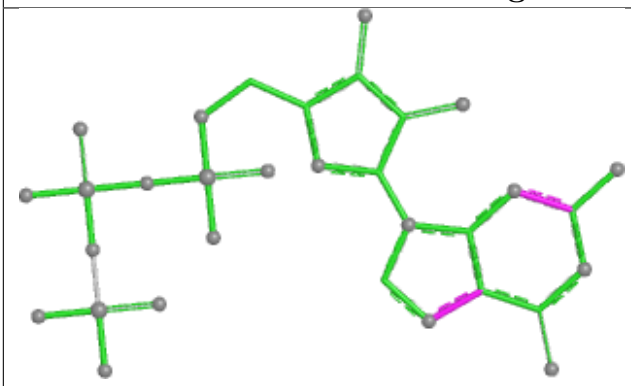


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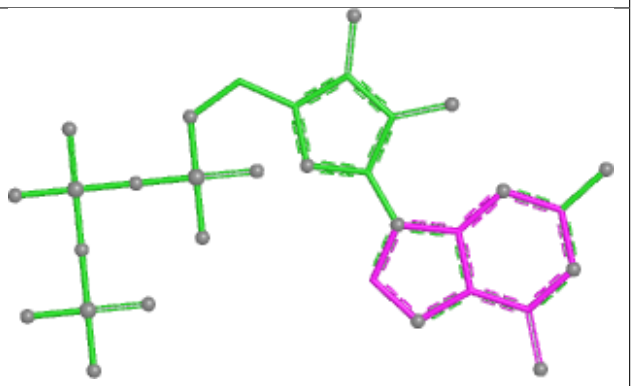


Rings

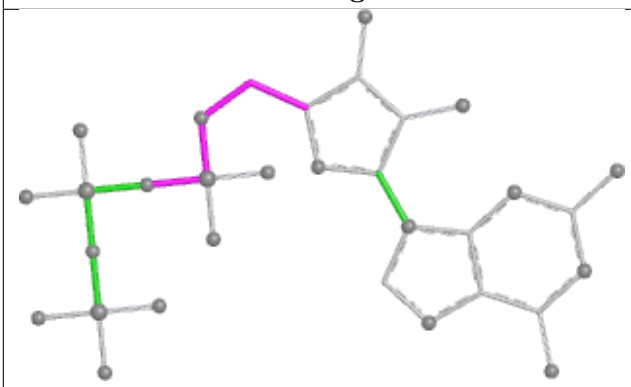
Ligand GTP AK 501



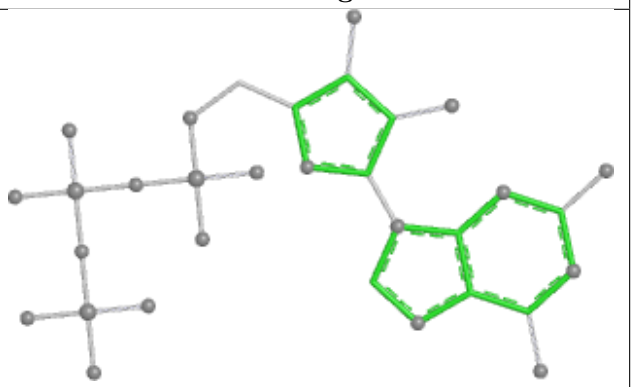
Bond lengths



Bond angles

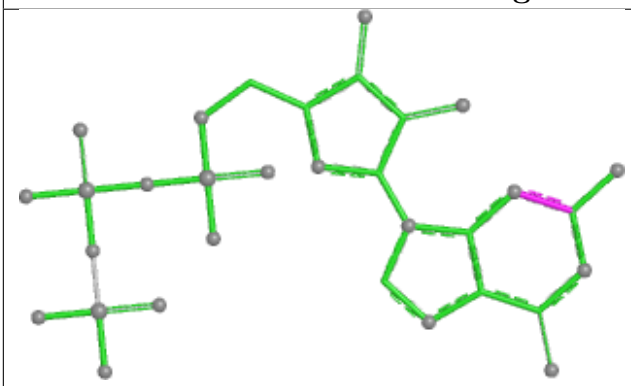


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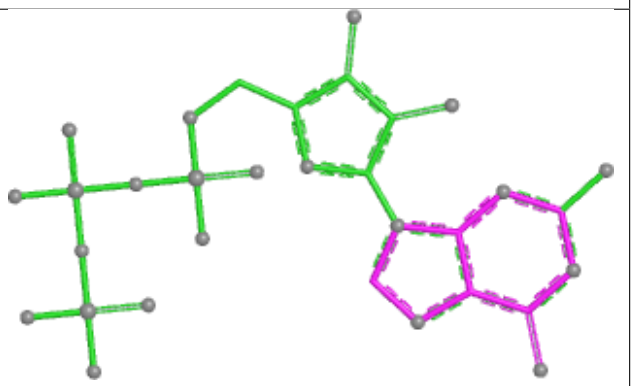


Rings

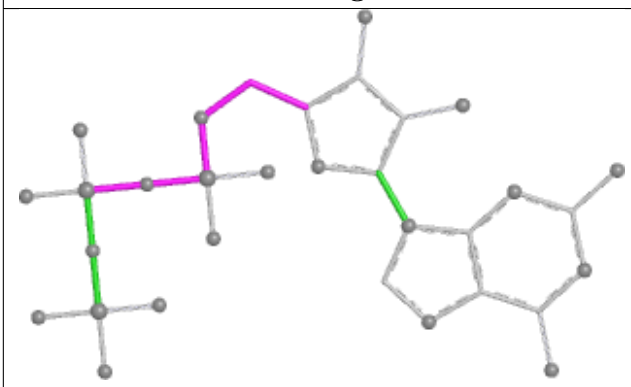
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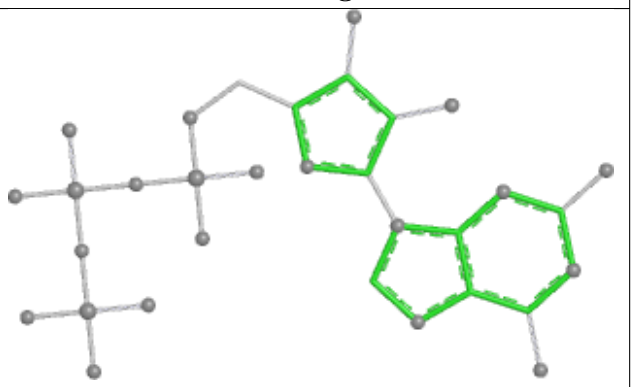
Bond lengths



Bond angles

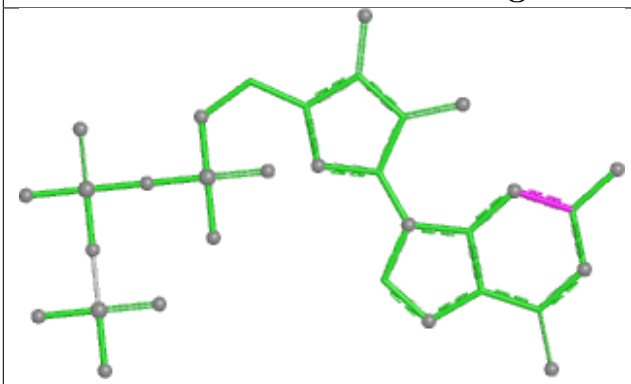


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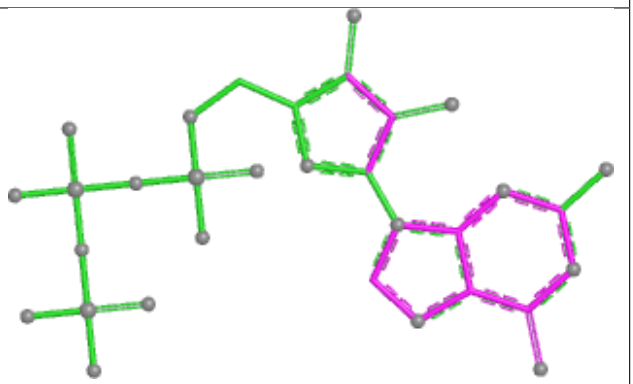


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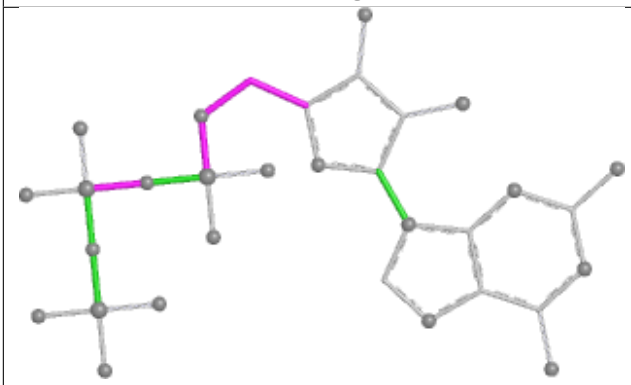
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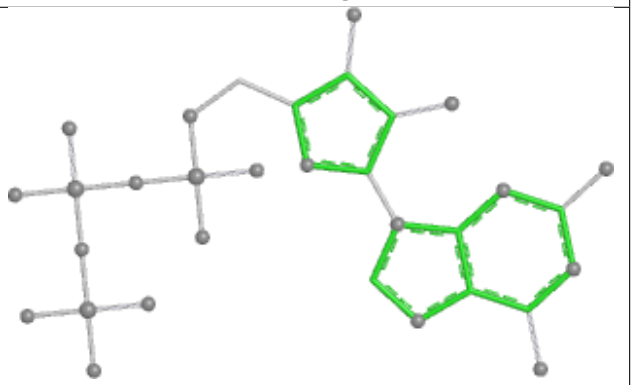
Bond lengths



Bond angles

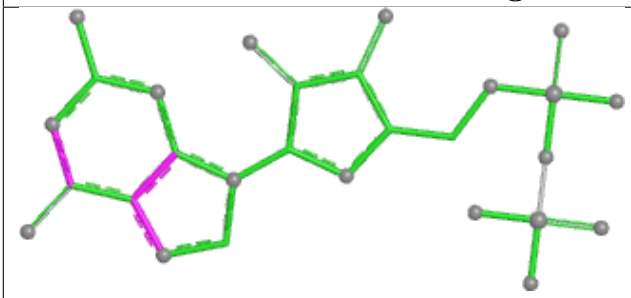


Torsions

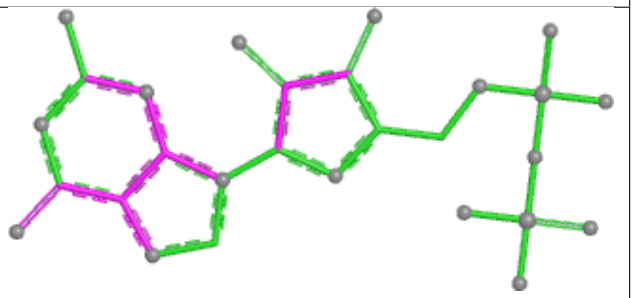


Rings

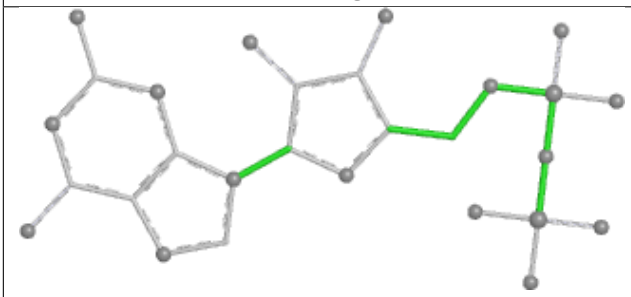
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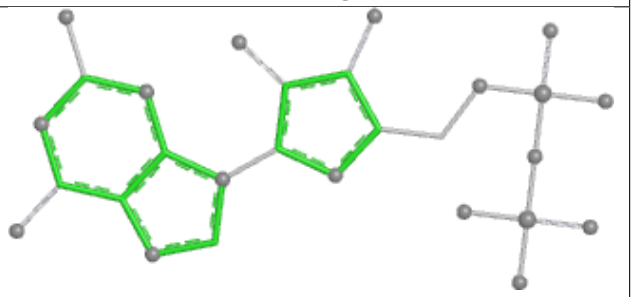
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Bond angles

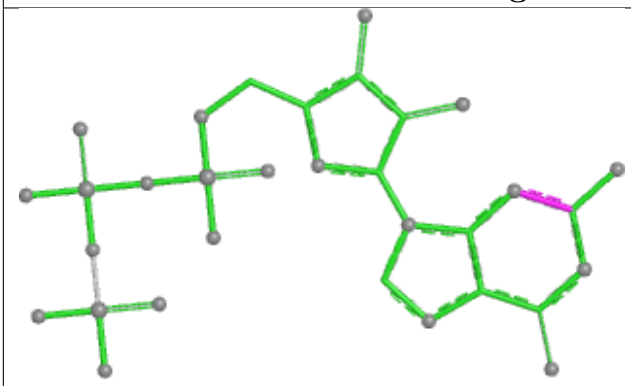


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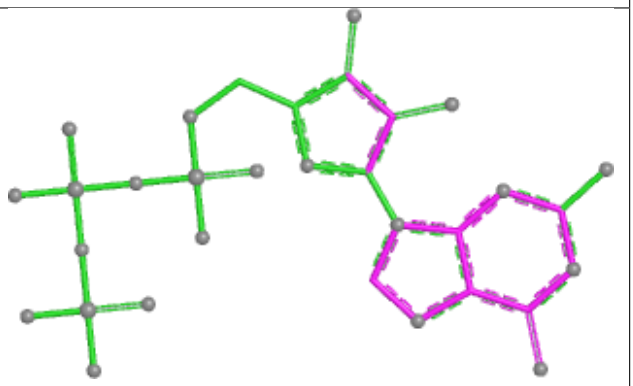


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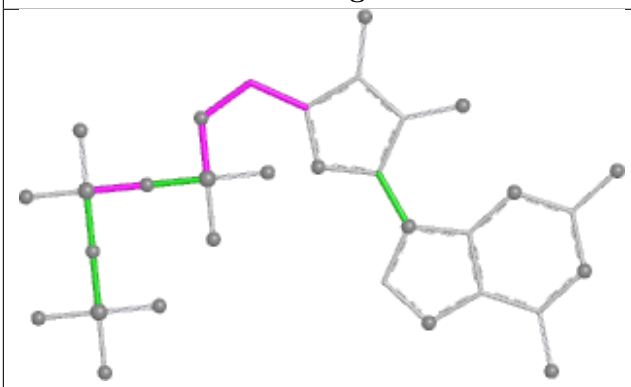
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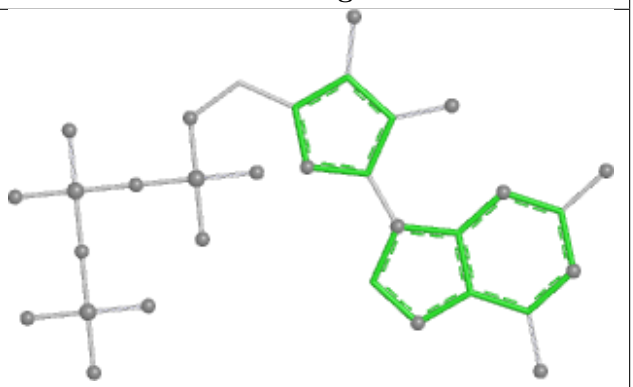
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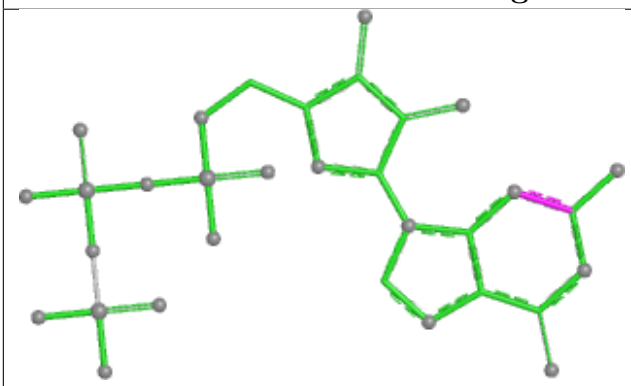


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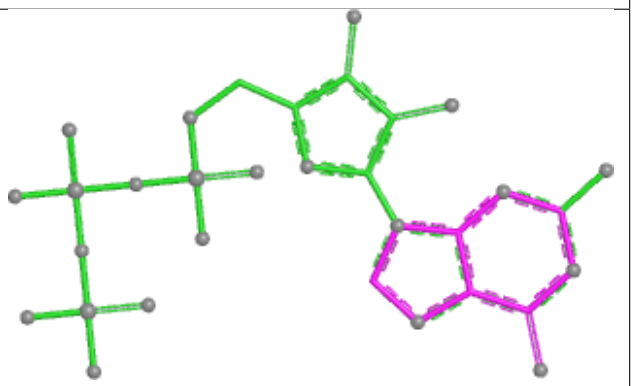


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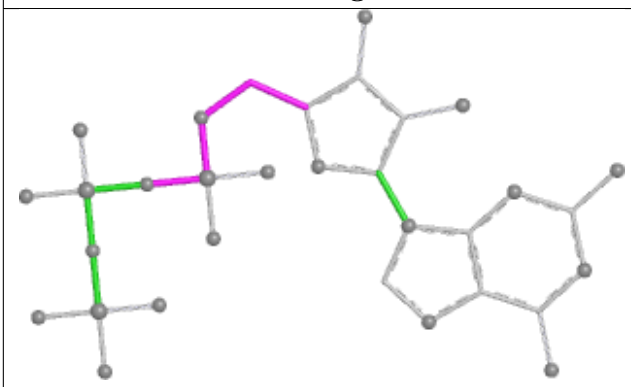
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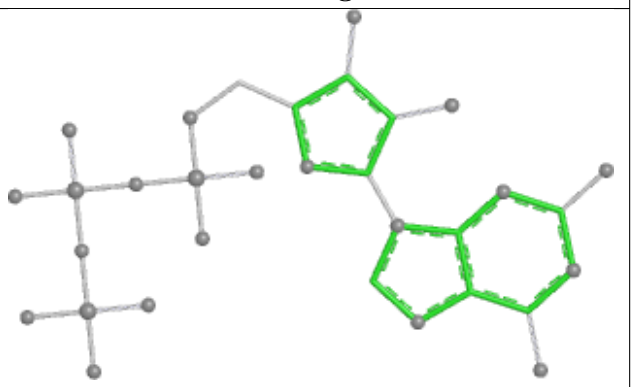
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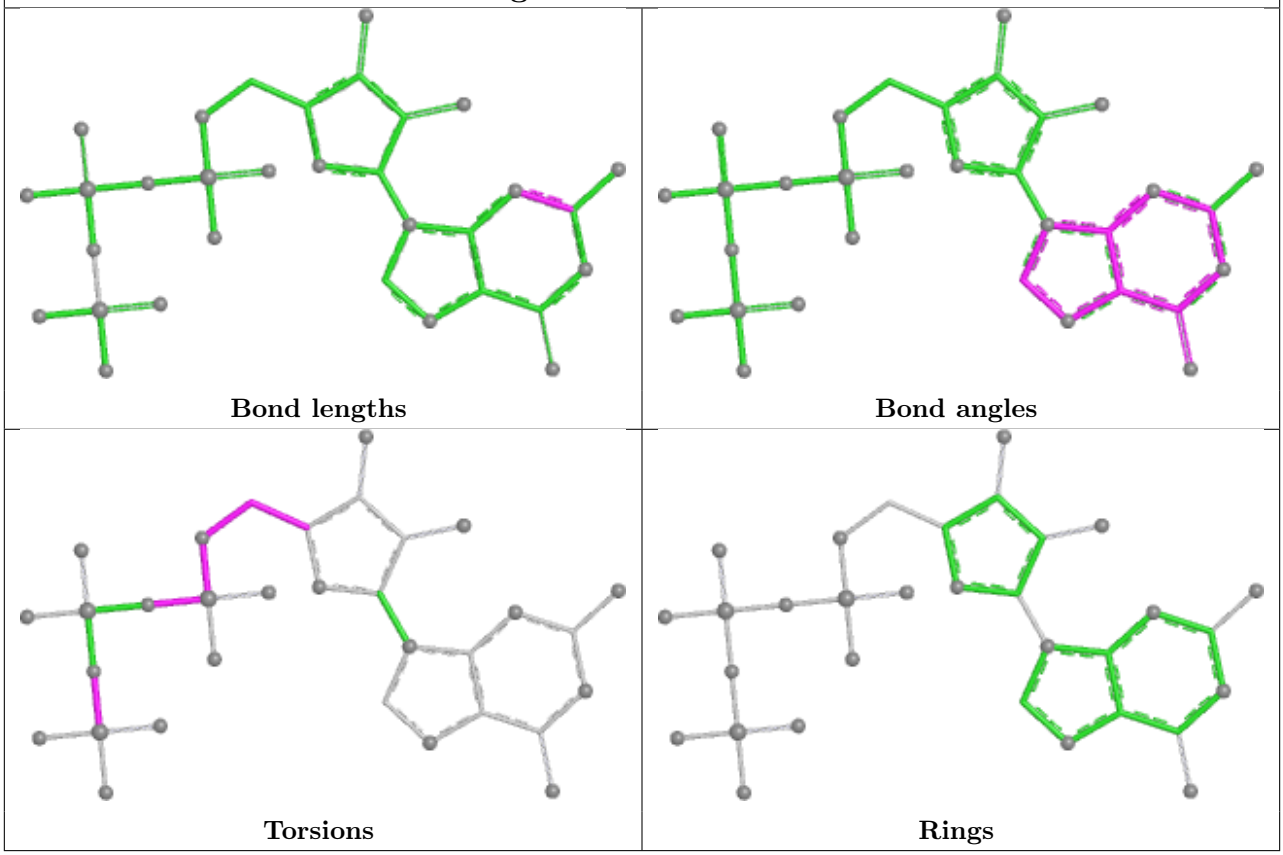


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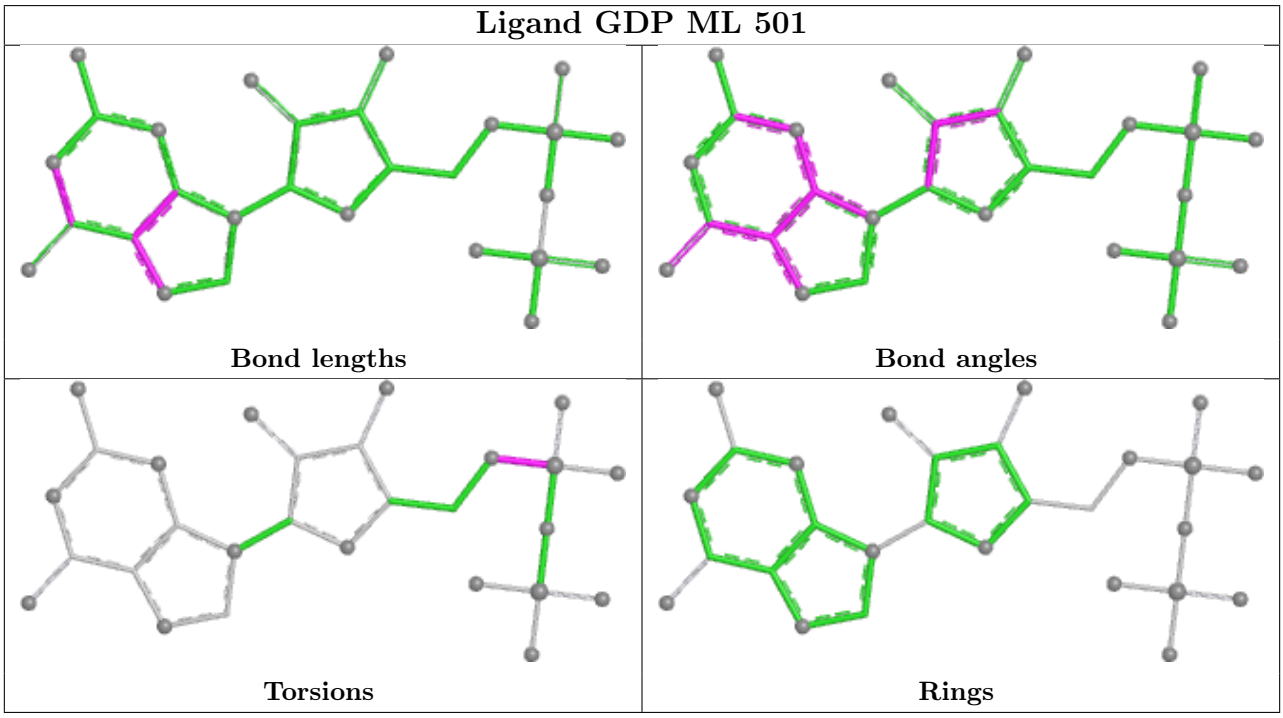


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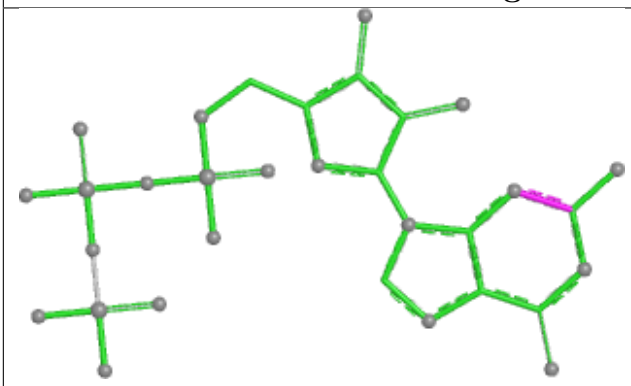
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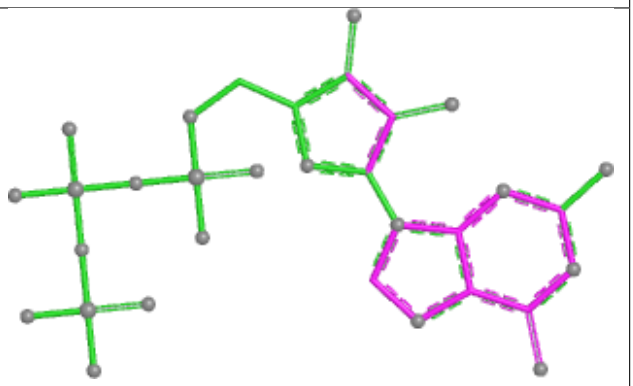
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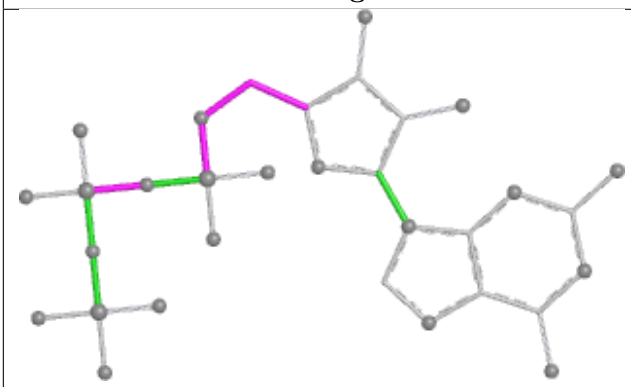
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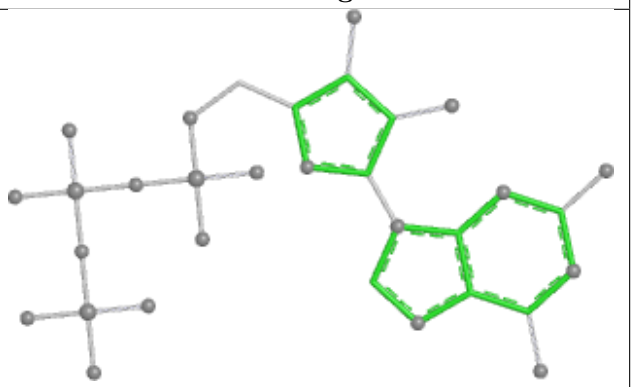
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Bond angles

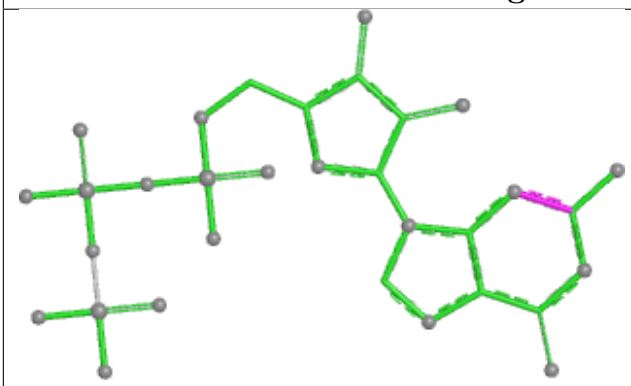


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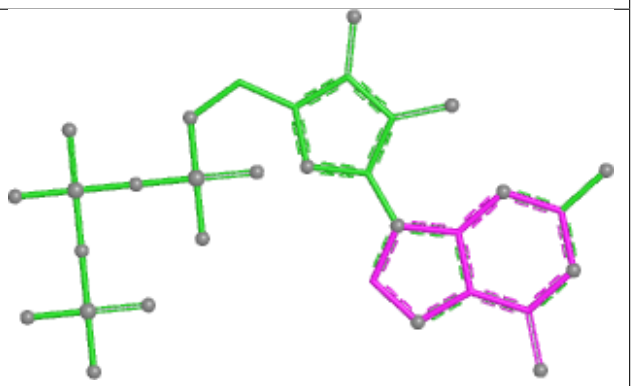


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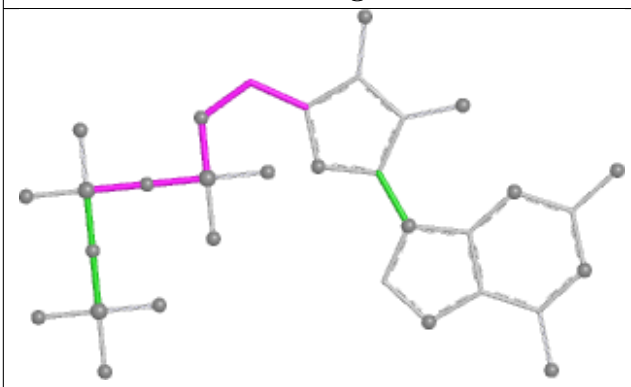
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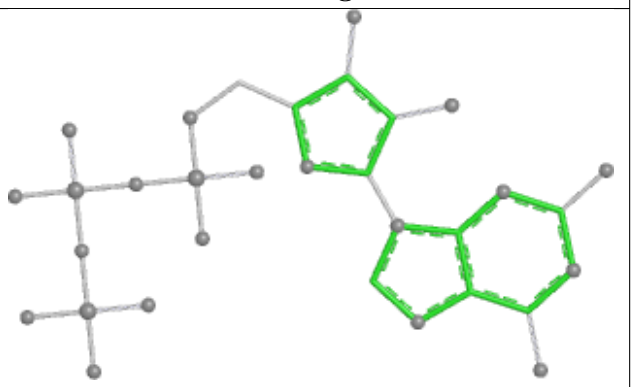
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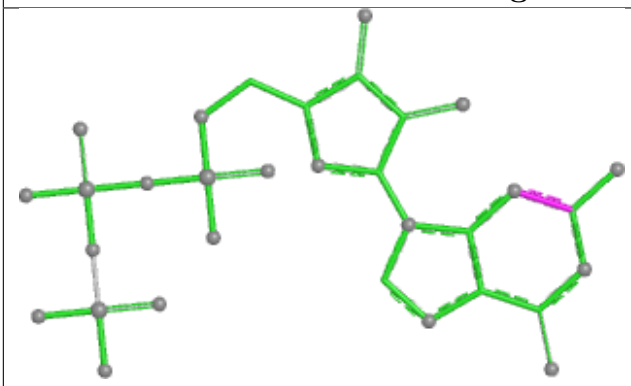


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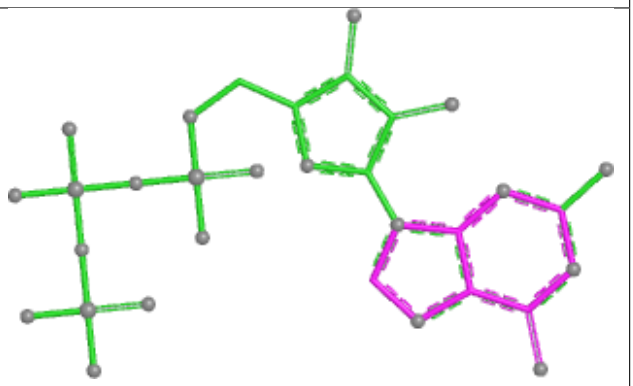


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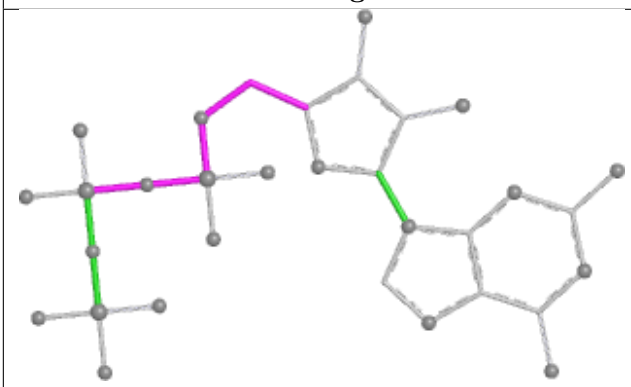
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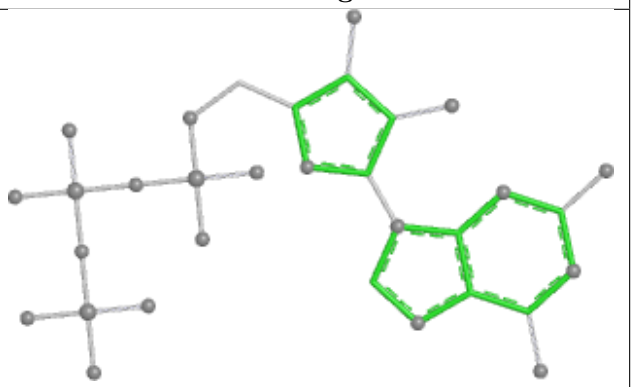
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Bond angles

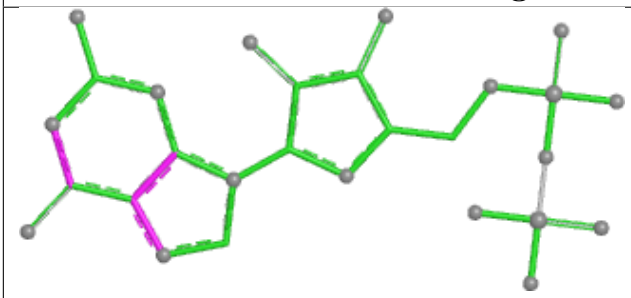


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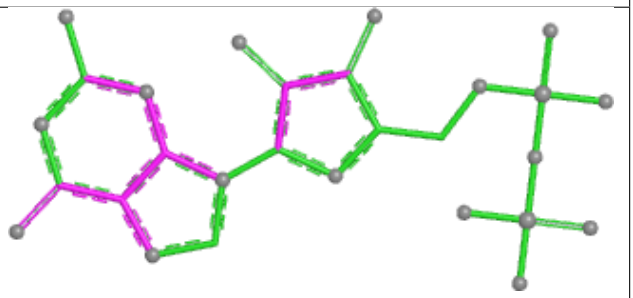


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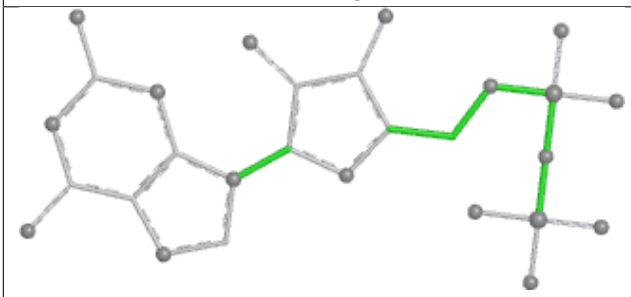
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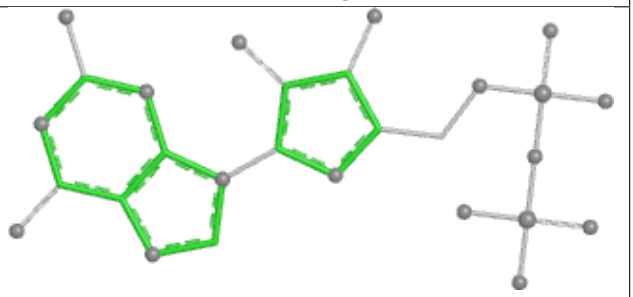
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Bond angles

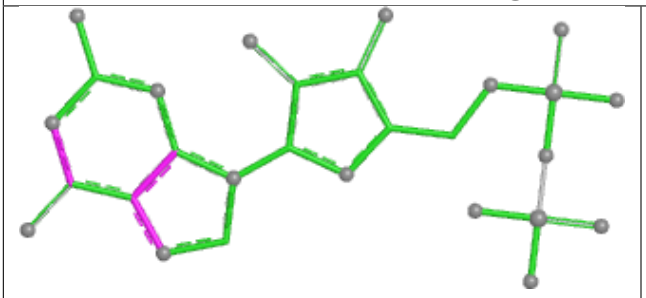


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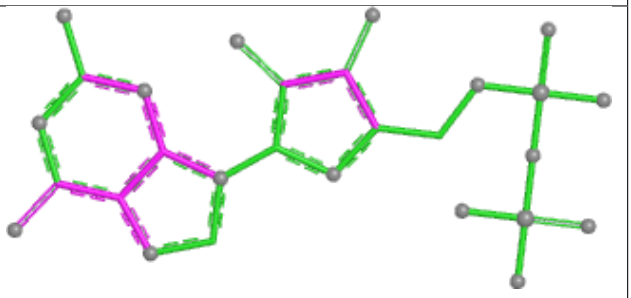


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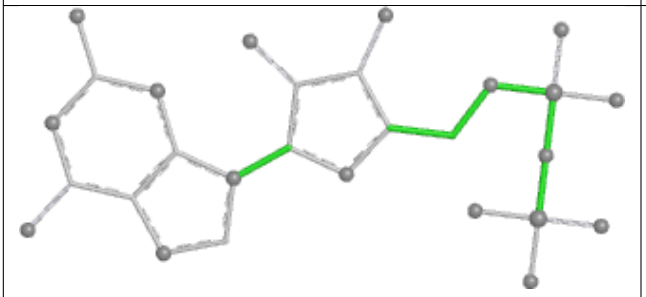
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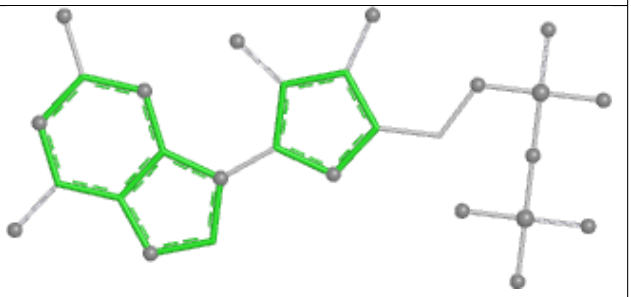
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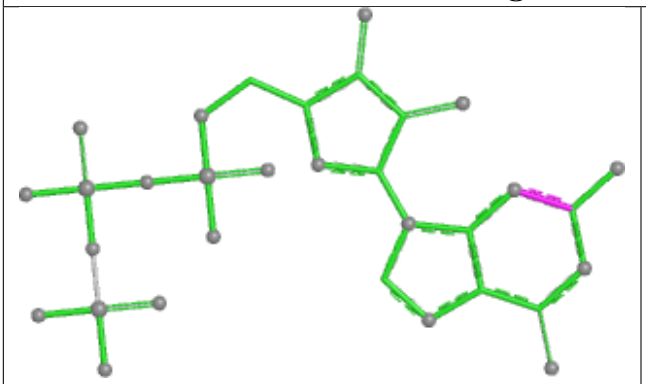


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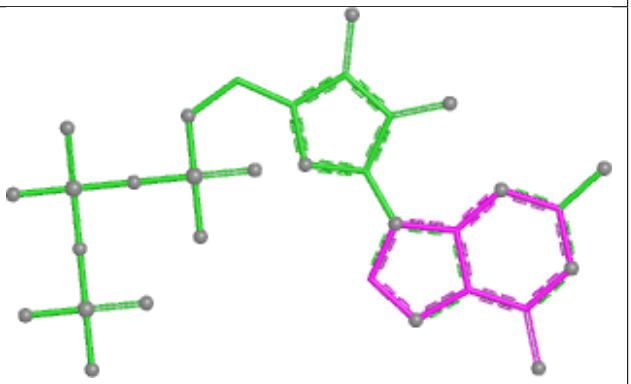


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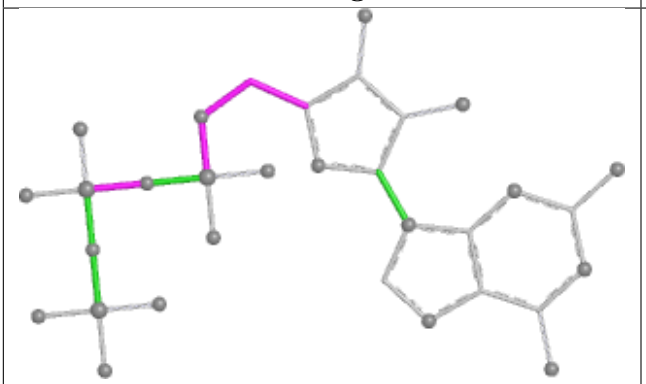
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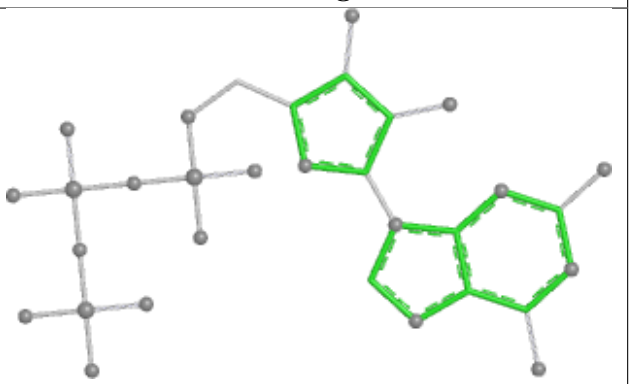
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Bond angles

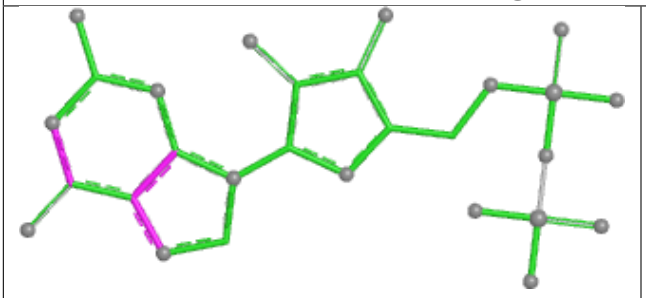


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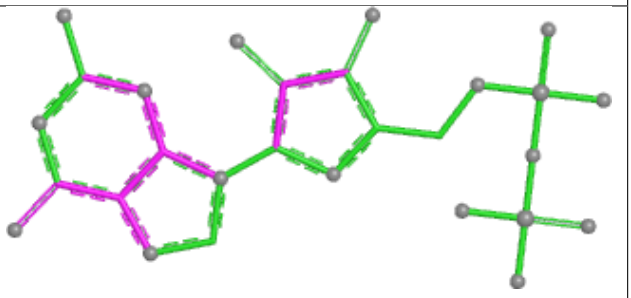


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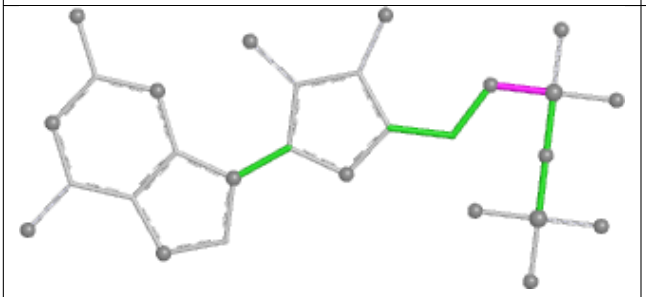
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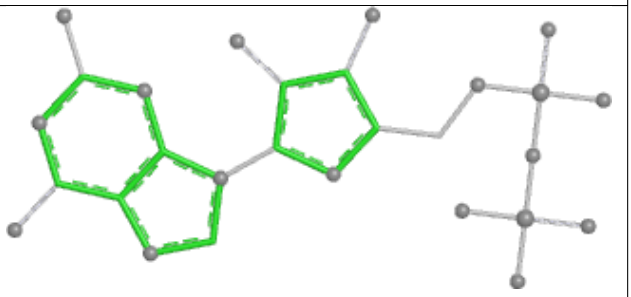
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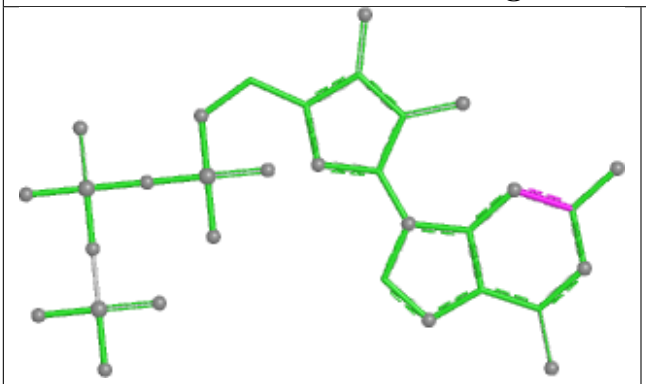


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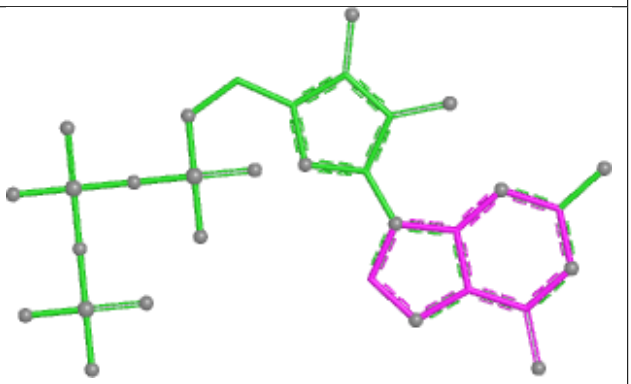


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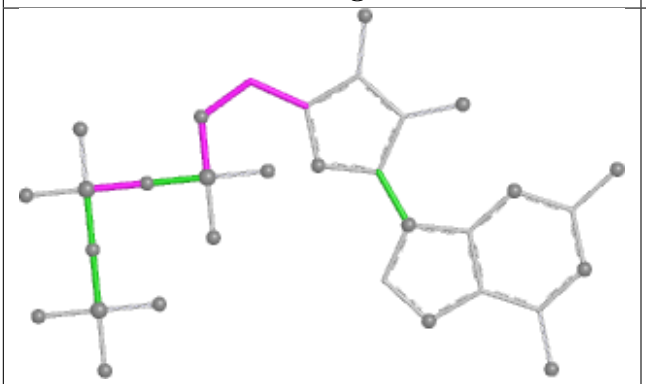
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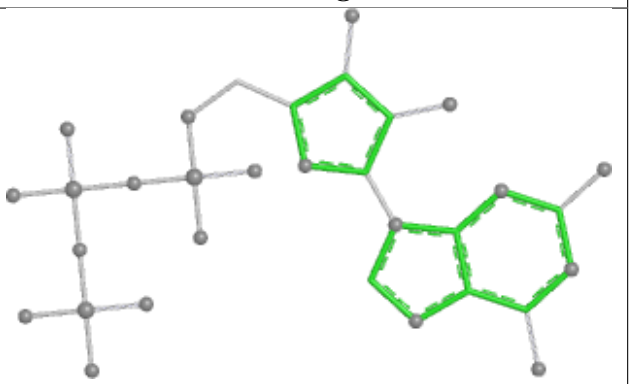
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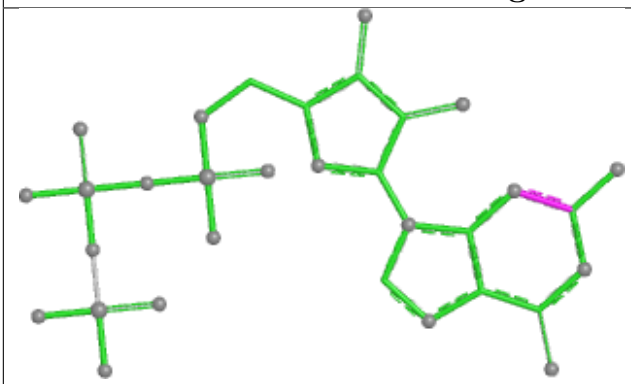


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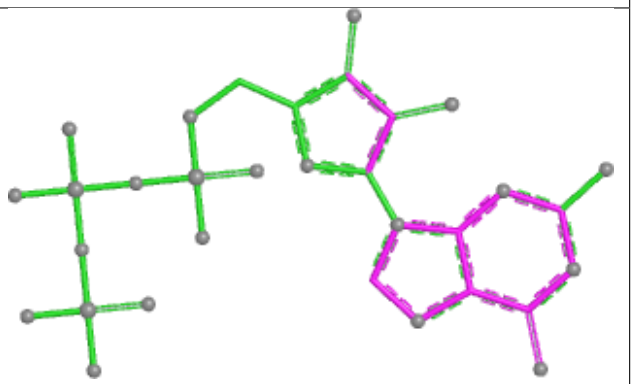


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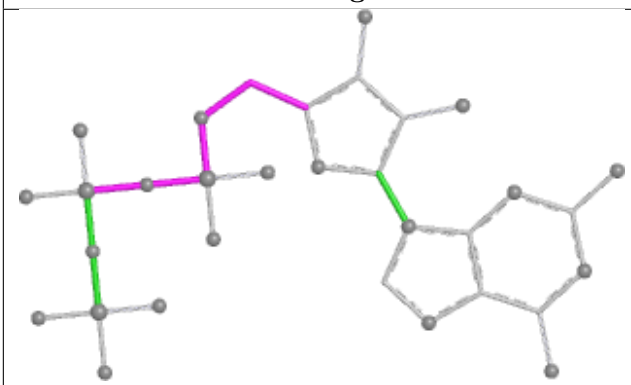
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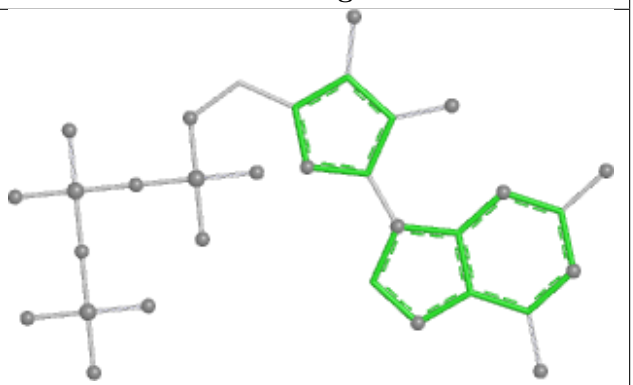
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Bond angles

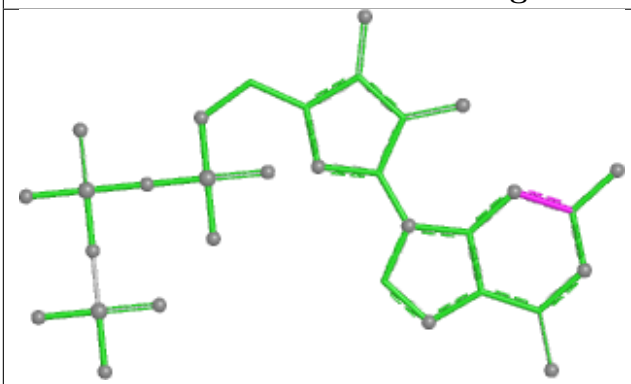


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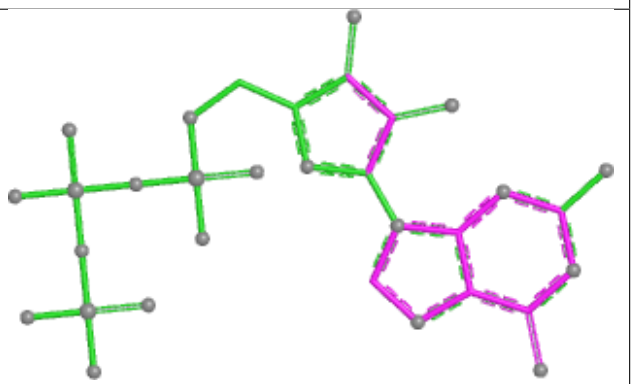


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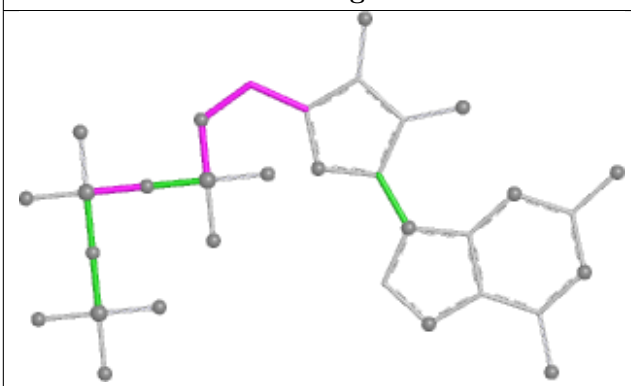
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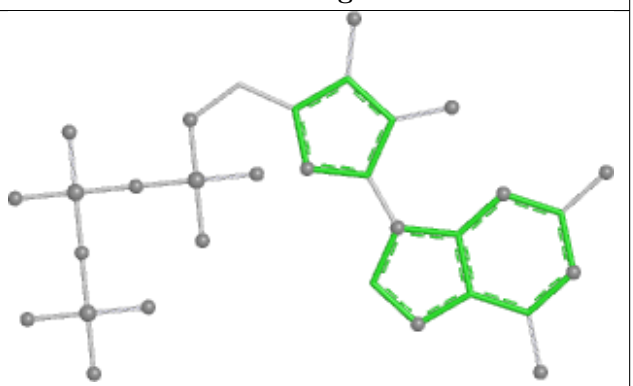
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Bond angles

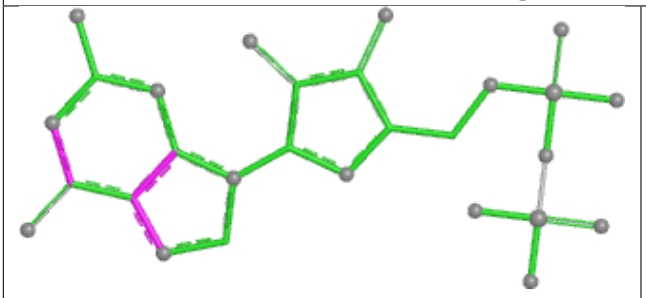


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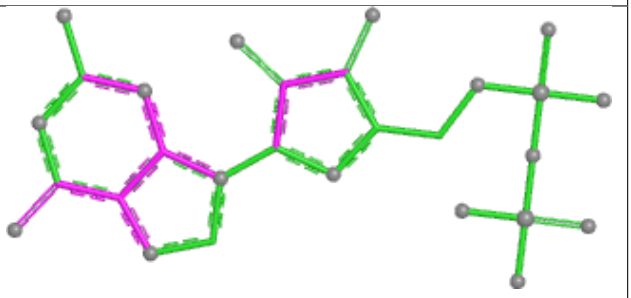


Rings

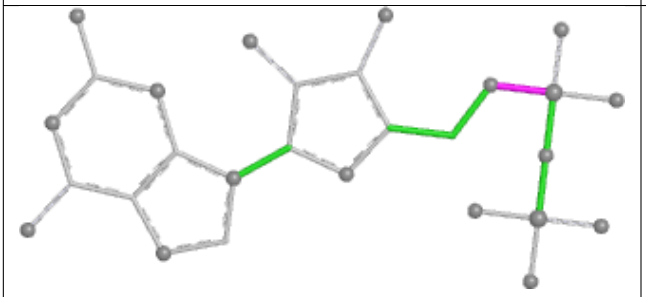
Ligand GDP JF 501



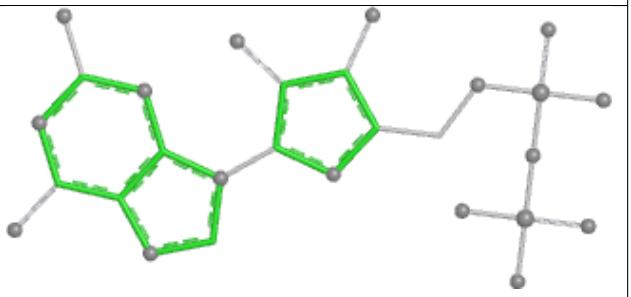
Bond lengths



Bond angles

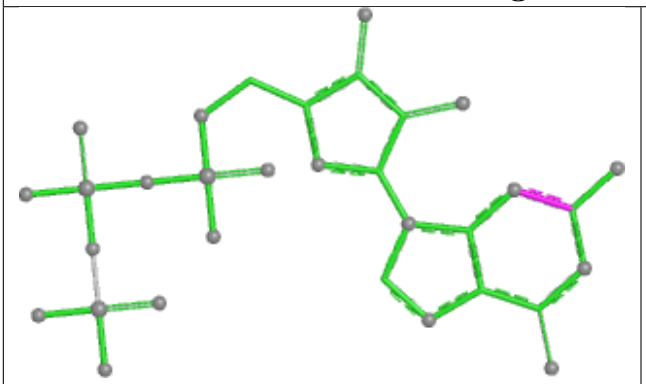


Torsions

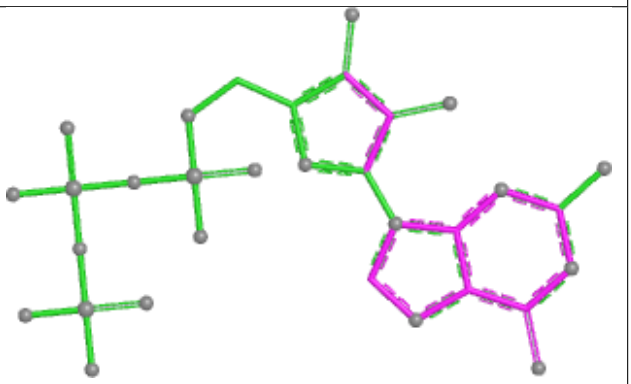


Rings

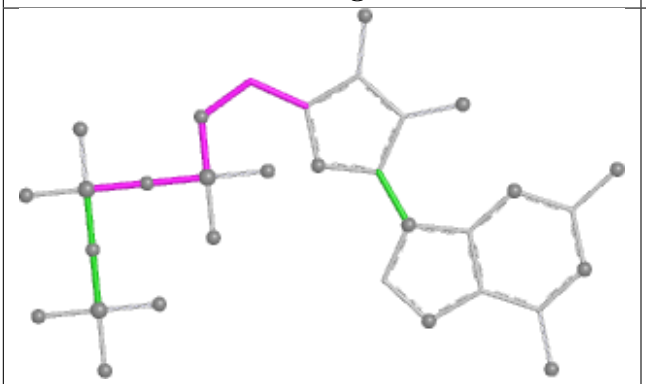
Ligand GTP PD 501



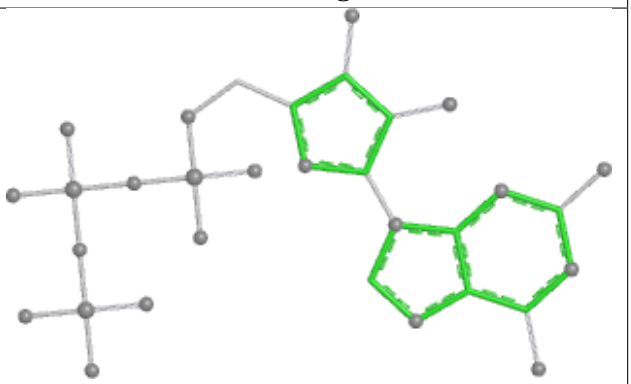
Bond lengths



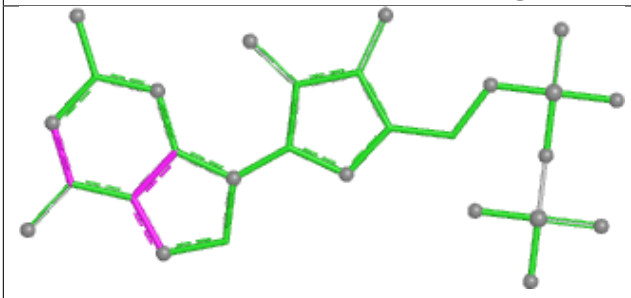
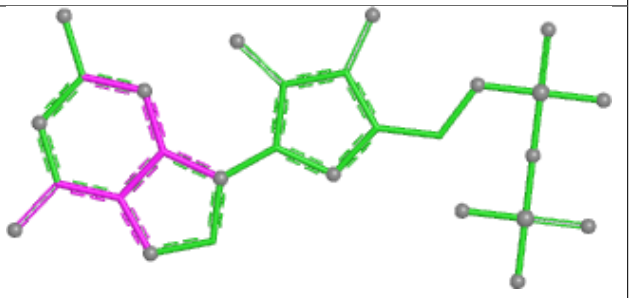
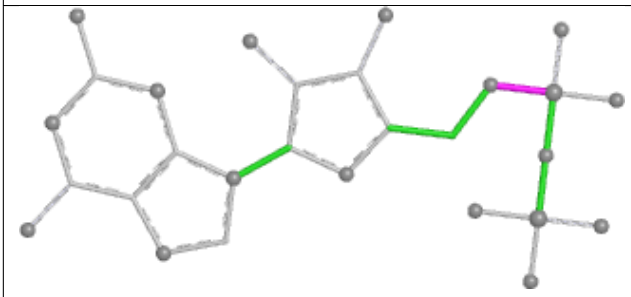
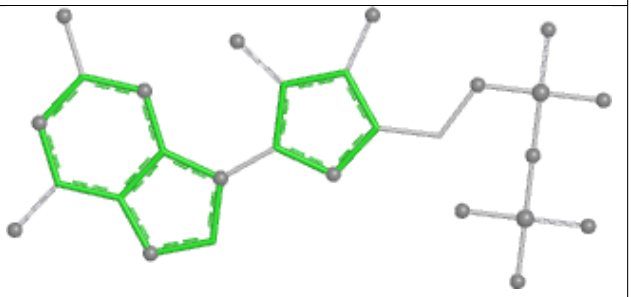
Bond angles

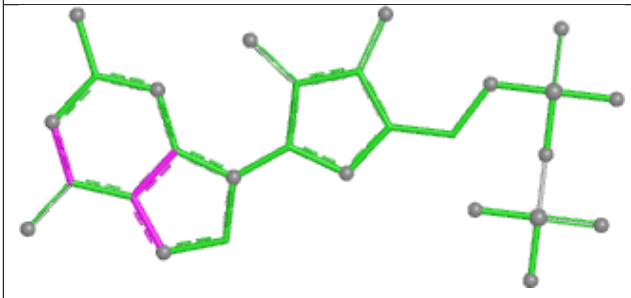
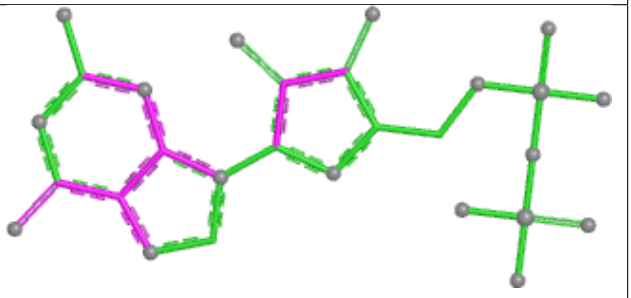
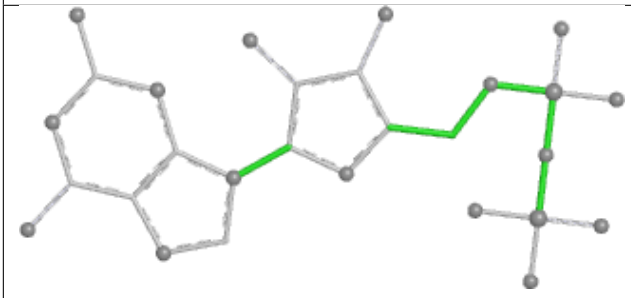
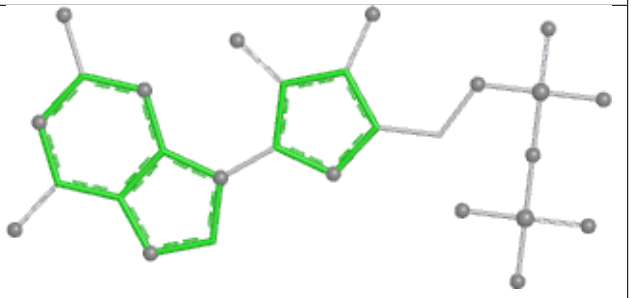


Torsions

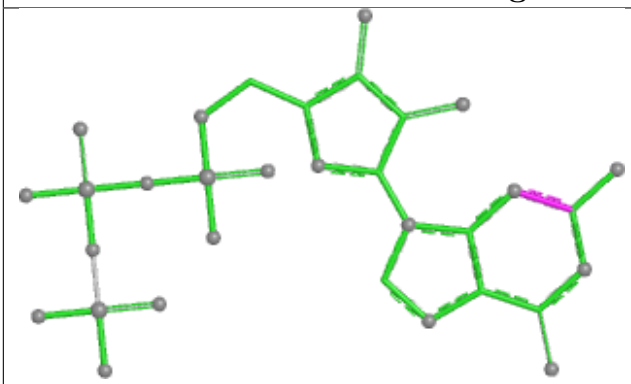


Rings

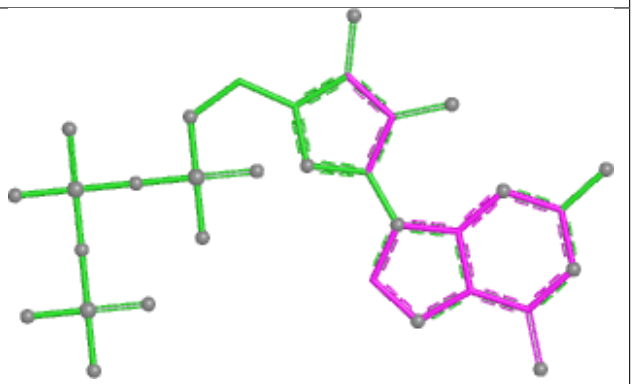
Ligand GDP JD 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand GDP PF 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

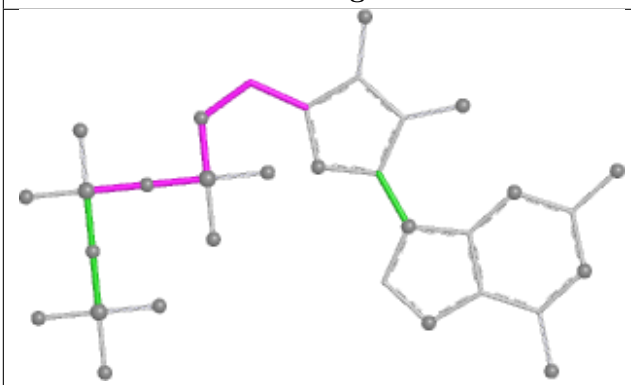
Ligand GTP BK 501



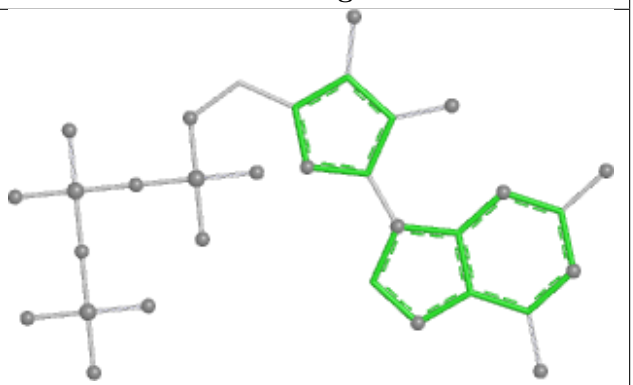
Bond lengths



Bond angles

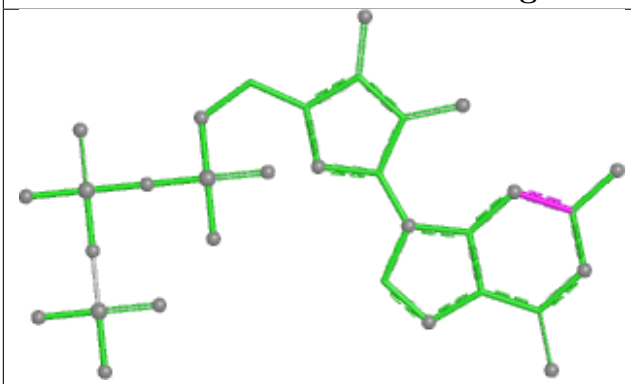


Torsions

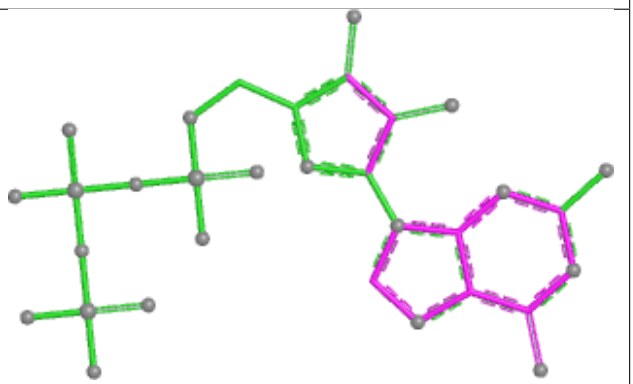


Rings

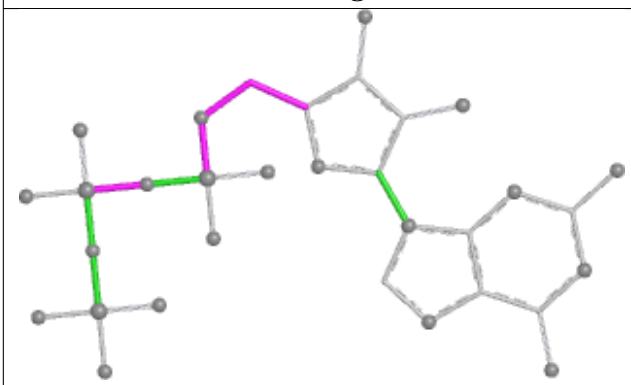
Ligand GTP JI 501



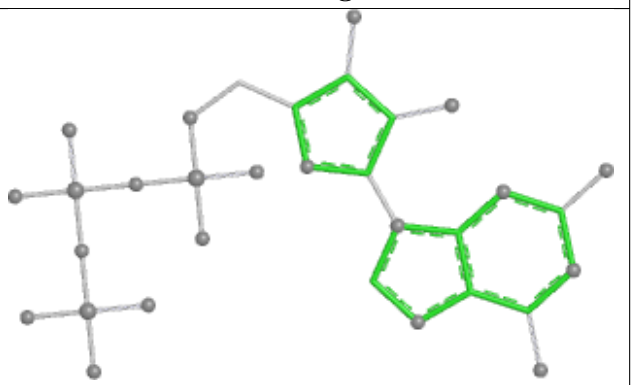
Bond lengths



Bond angles

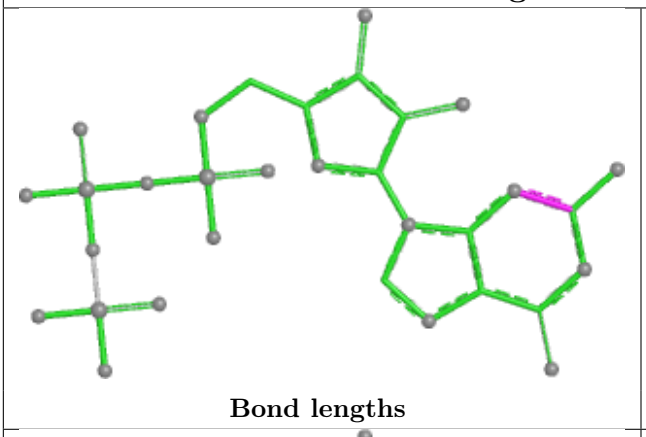


Torsions

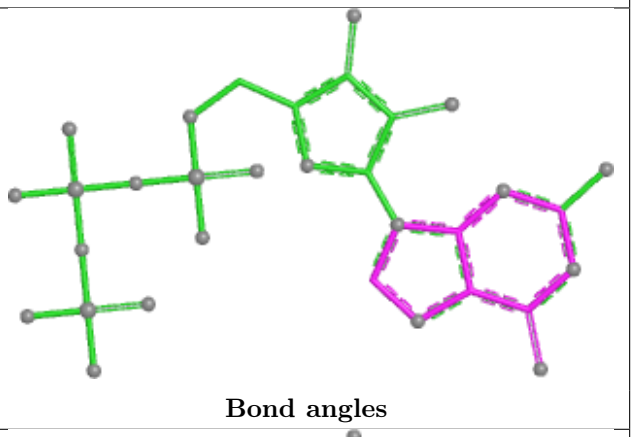


Rings

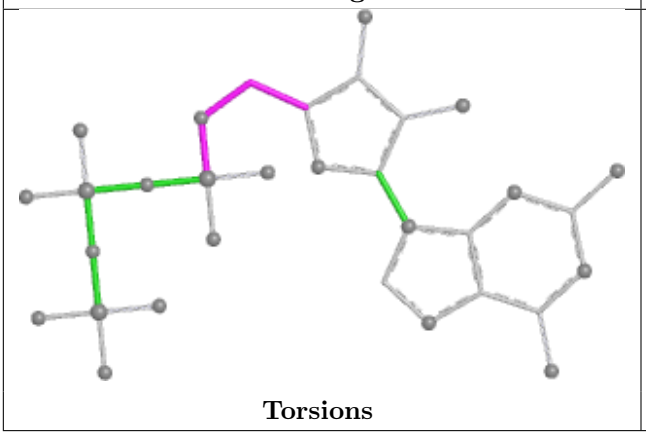
Ligand GTP OA 501



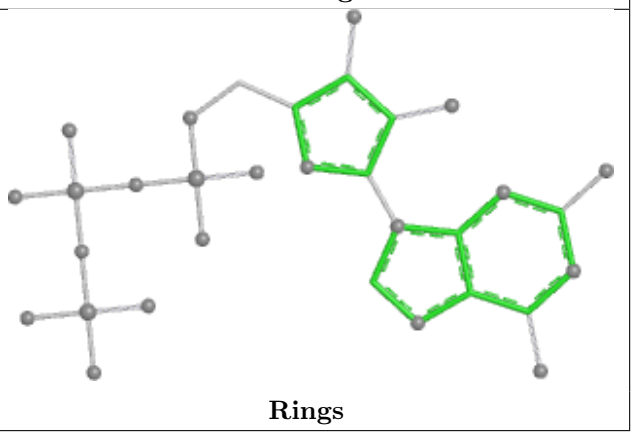
Bond lengths



Bond angles

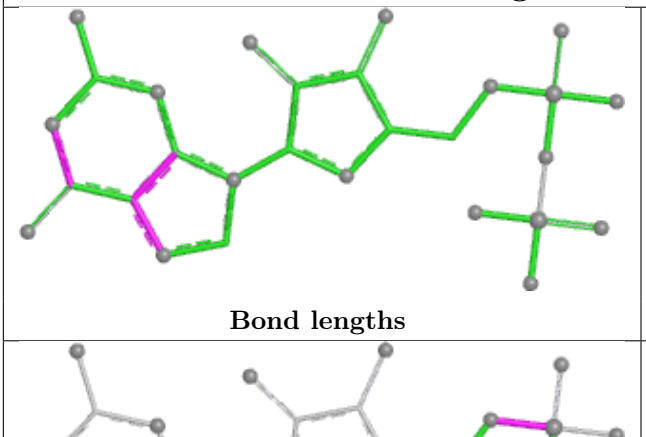


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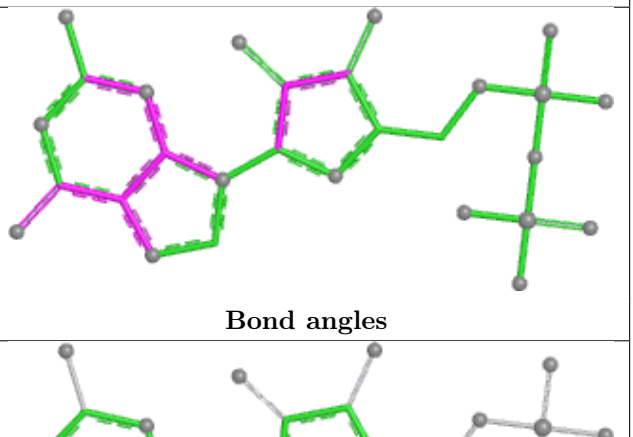


Rings

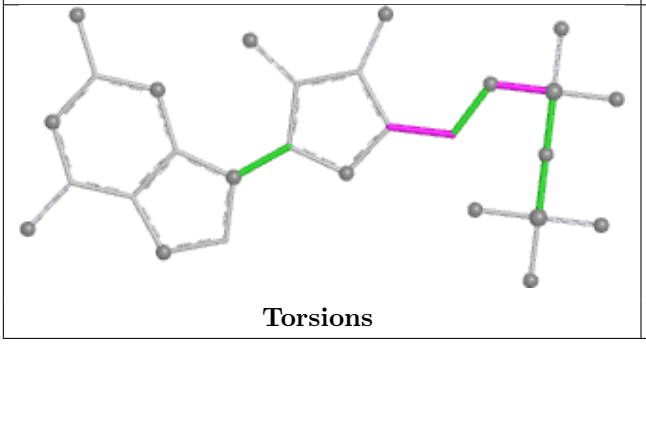
Ligand GDP TL 501



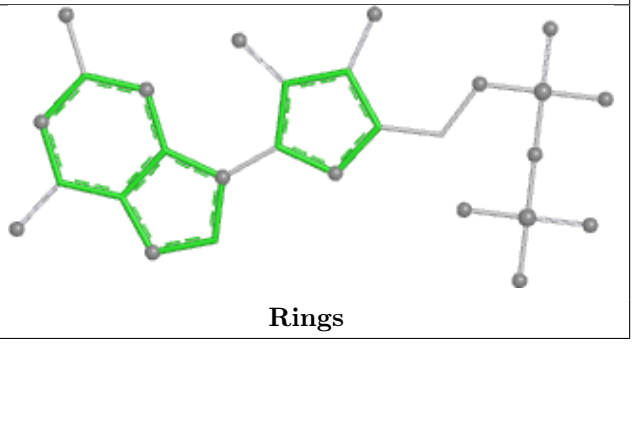
Bond lengths



Bond angles

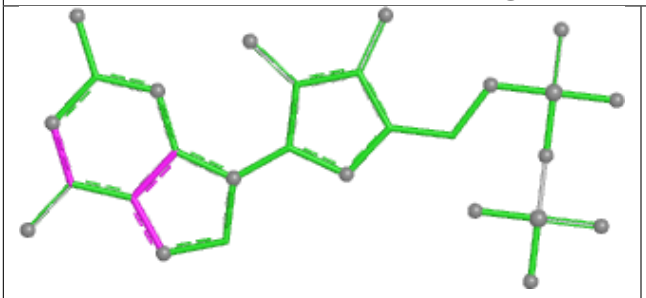


Torsions

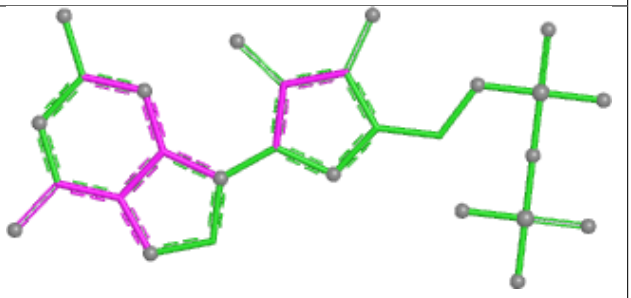


Rings

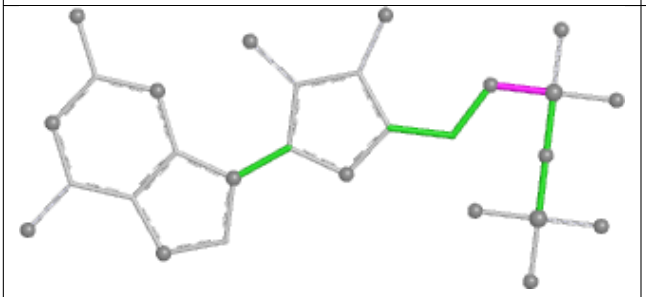
Ligand GDP WN 501



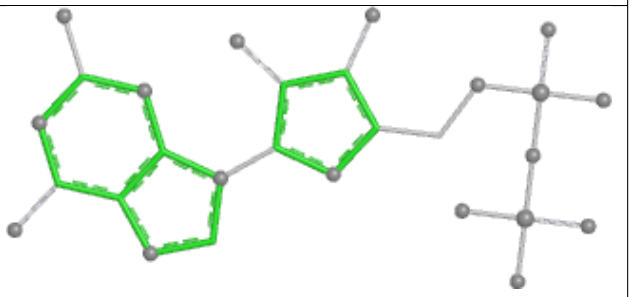
Bond lengths



Bond angles

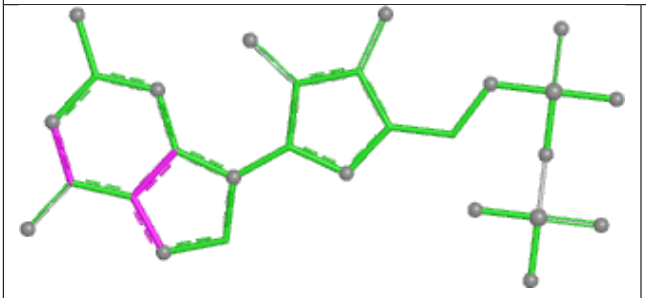


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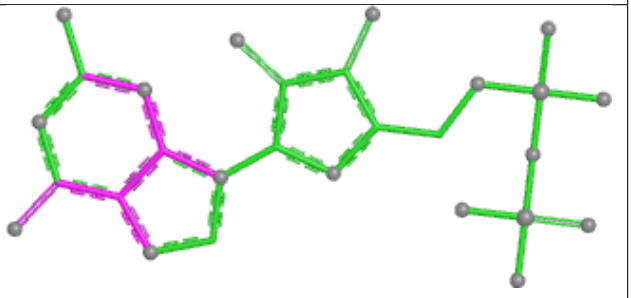


Rings

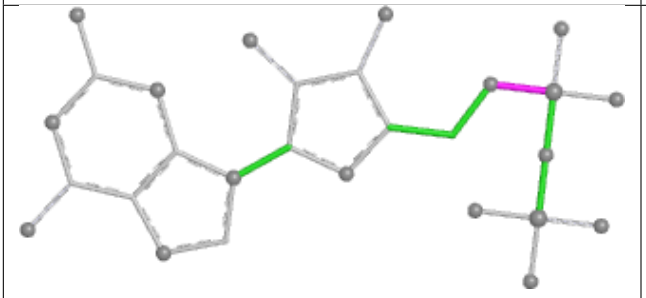
Ligand GDP EN 501



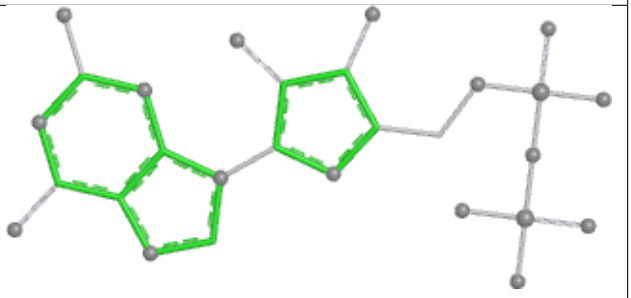
Bond lengths



Bond angles

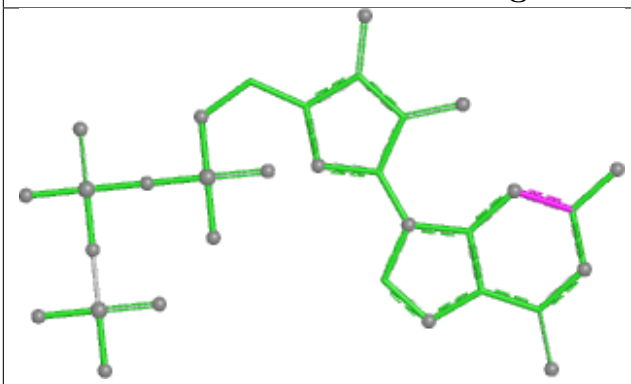


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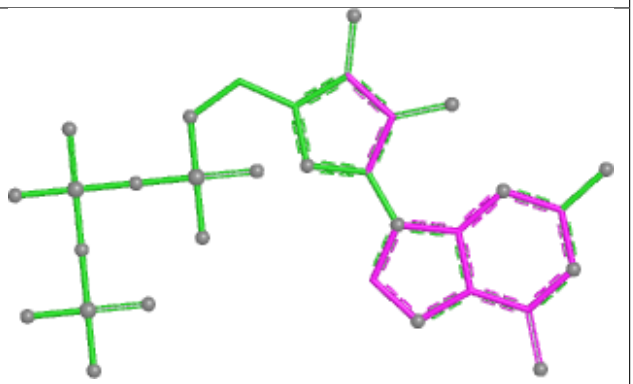


Rings

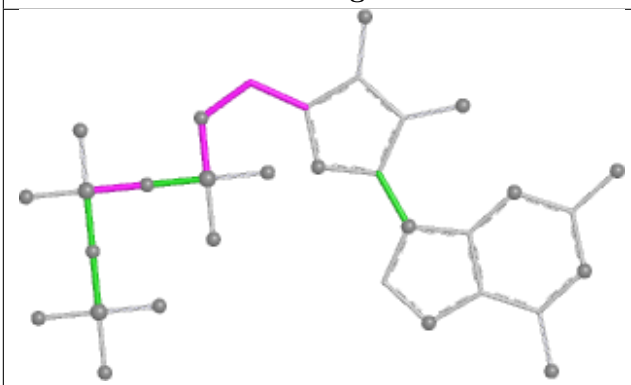
Ligand GTP GE 501



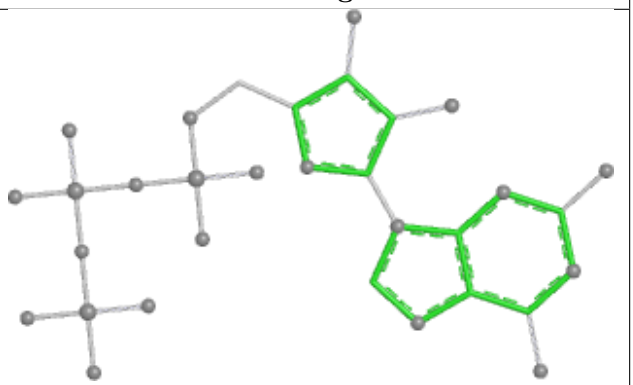
Bond lengths



Bond angles

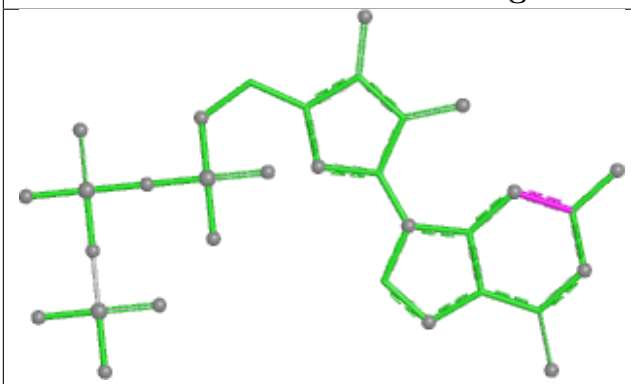


Torsions

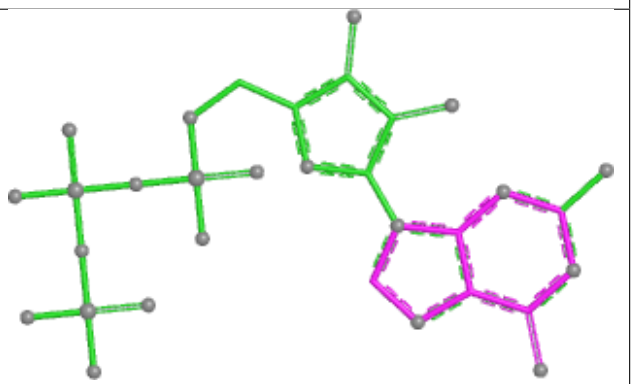


Rings

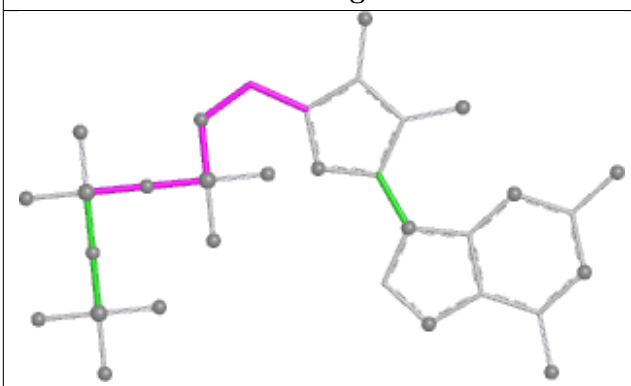
Ligand GTP TG 501



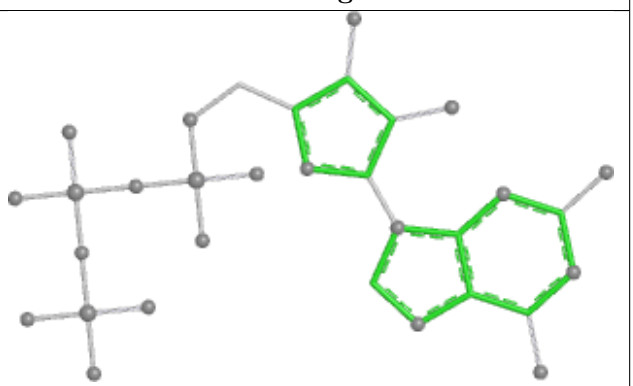
Bond lengths



Bond angles



Torsions



Rings

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	2A	1
1	1A	1
1	0A	1
28	2F	1
1	3A	1
12	0T	1
23	2O	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	2A	110:PRO	C	111:SER	N	6.11
1	1A	110:PRO	C	111:SER	N	6.07
1	0A	110:PRO	C	111:SER	N	6.00
1	2F	68:THR	C	69:MET	N	5.77
1	3A	110:PRO	C	111:SER	N	5.47
1	0T	98:LYS	C	102:HIS	N	4.37
1	2O	180:MET	C	181:MET	N	2.68

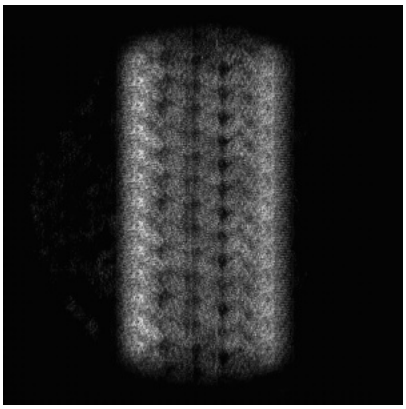
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-29685. These allow visual inspection of the internal detail of the map and identification of artifacts.

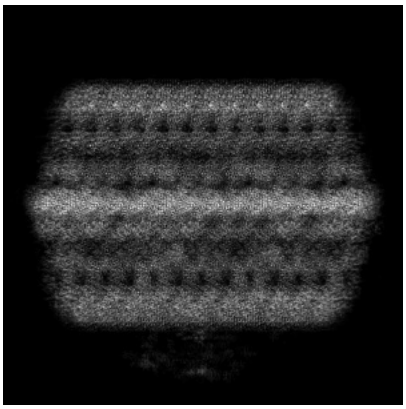
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

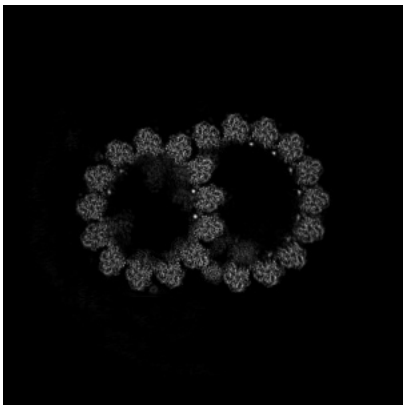
6.1.1 Primary map



X

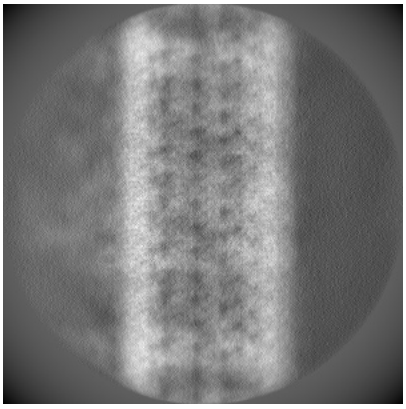


Y

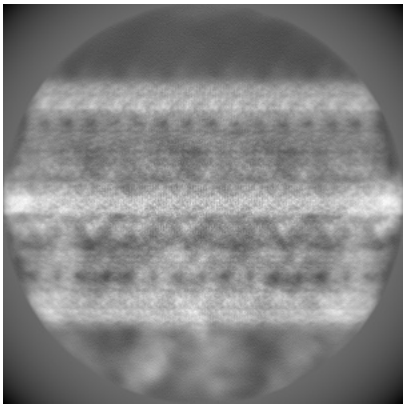


Z

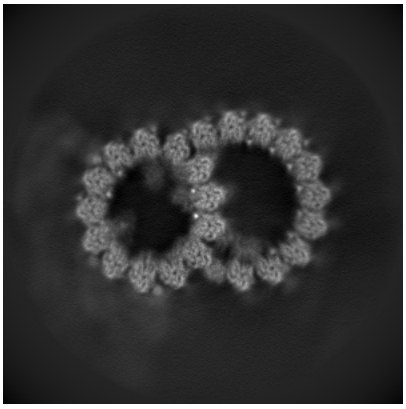
6.1.2 Raw map



X



Y

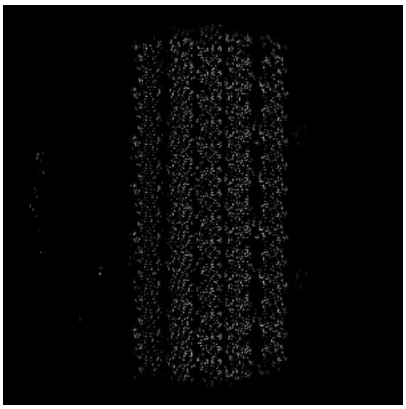


Z

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

6.2 Central slices (i)

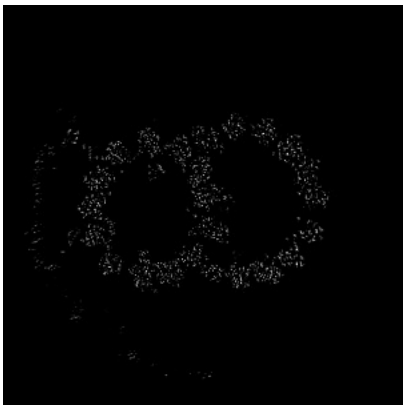
6.2.1 Primary map



X Index: 256

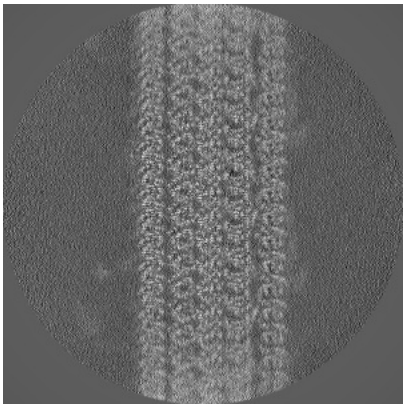


Y Index: 256

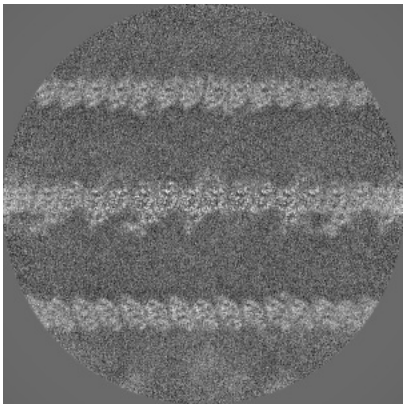


Z Index: 256

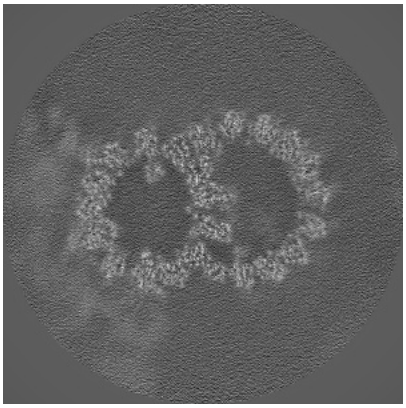
6.2.2 Raw map



X Index: 256



Y Index: 256

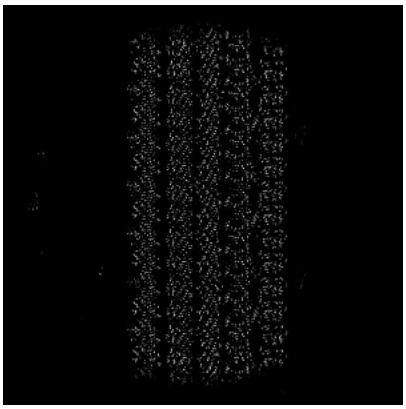


Z Index: 256

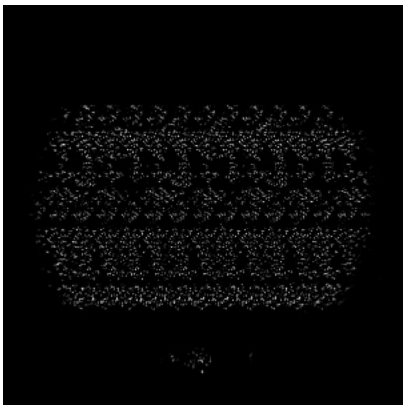
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

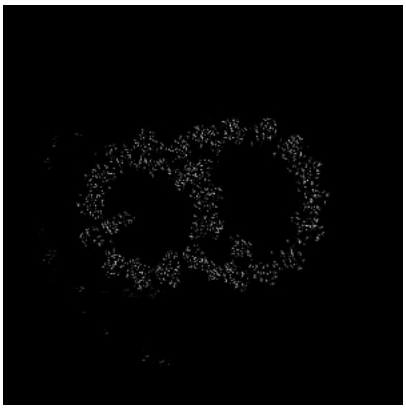
6.3.1 Primary map



X Index: 258

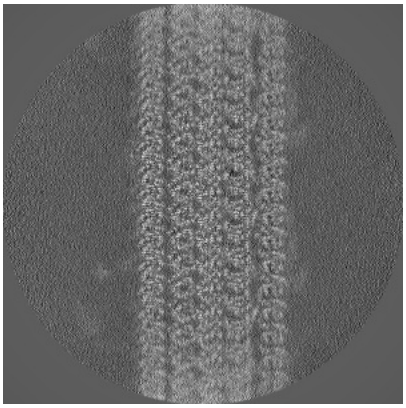


Y Index: 176

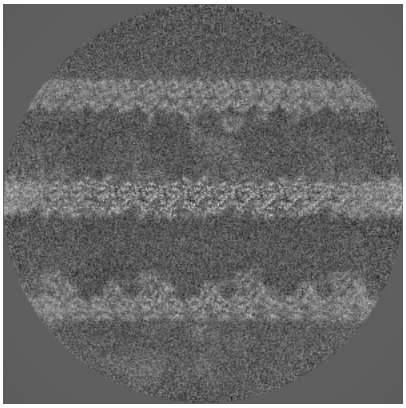


Z Index: 200

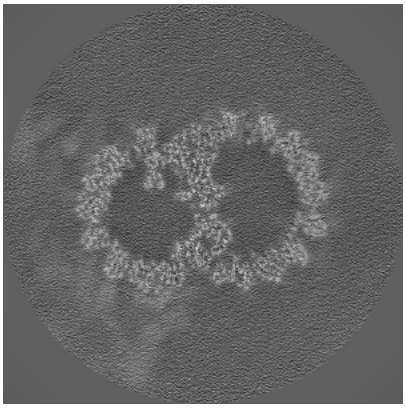
6.3.2 Raw map



X Index: 256



Y Index: 223

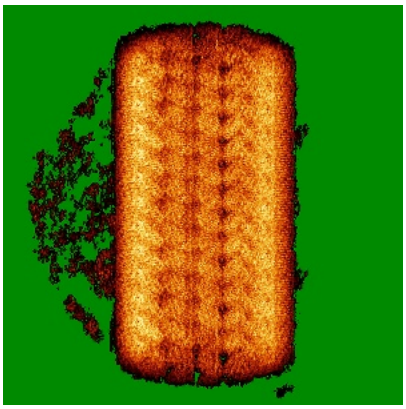


Z Index: 229

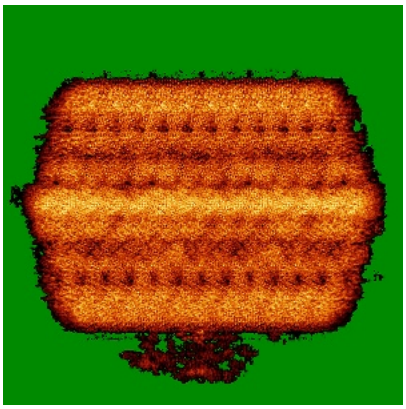
The images above show the largest variance slices of the map in three orthogonal directions.

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

6.4.1 Primary map



X

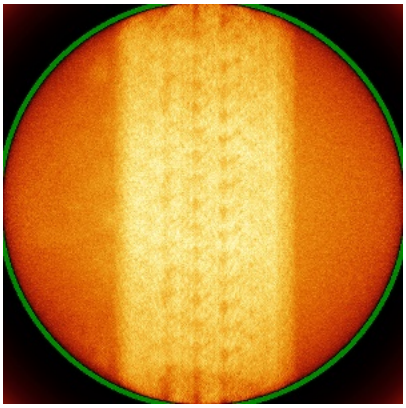


Y

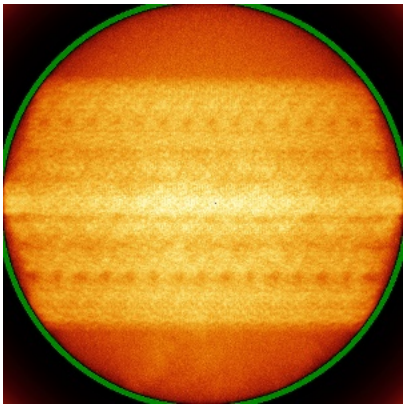


Z

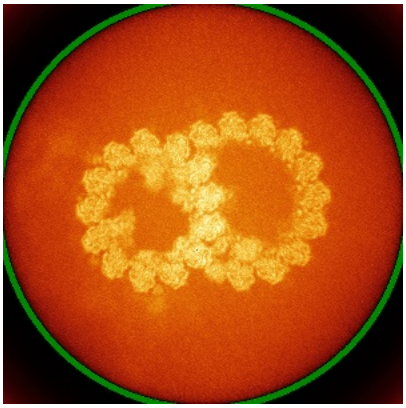
6.4.2 Raw map



X



Y

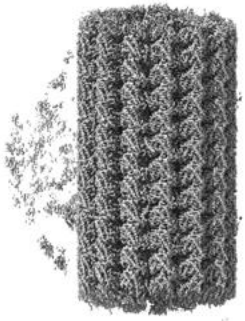


Z

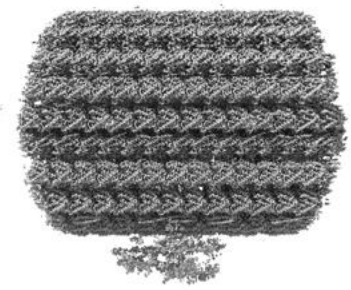
The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views (i)

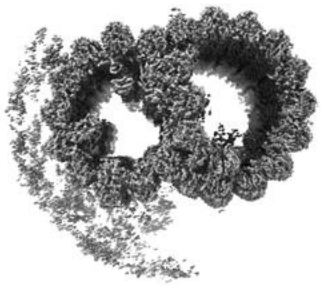
6.5.1 Primary map



X



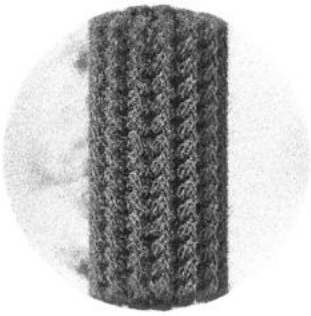
Y



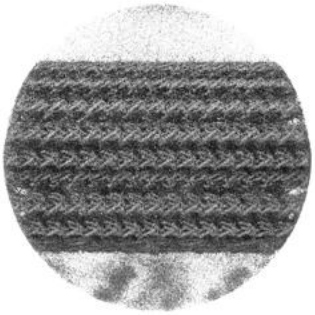
Z

The images above show the 3D surface view of the map at the recommended contour level 0.15. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

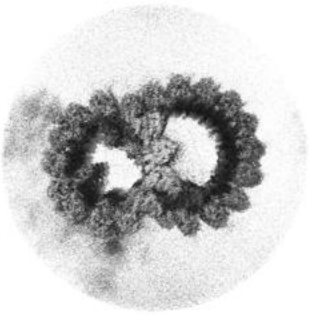
6.5.2 Raw map



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.

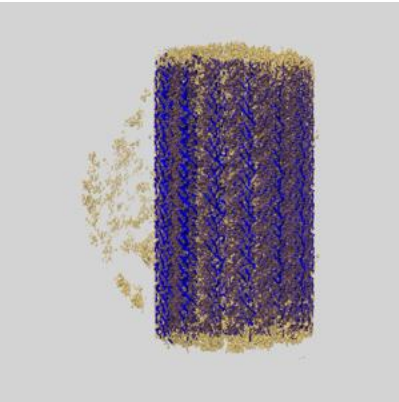
6.6 Mask visualisation

This section shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

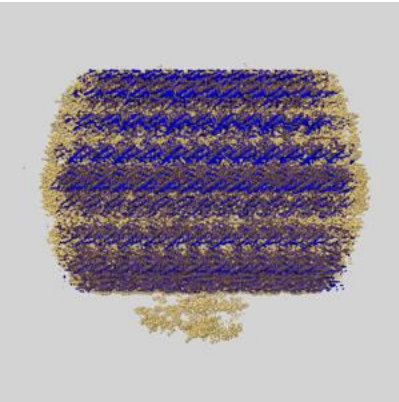
A mask typically either:

- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

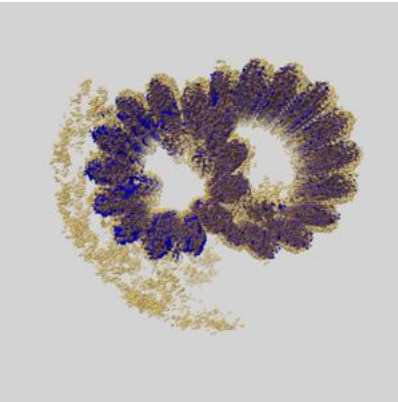
6.6.1 emd_29685_msk_1.map



X



Y

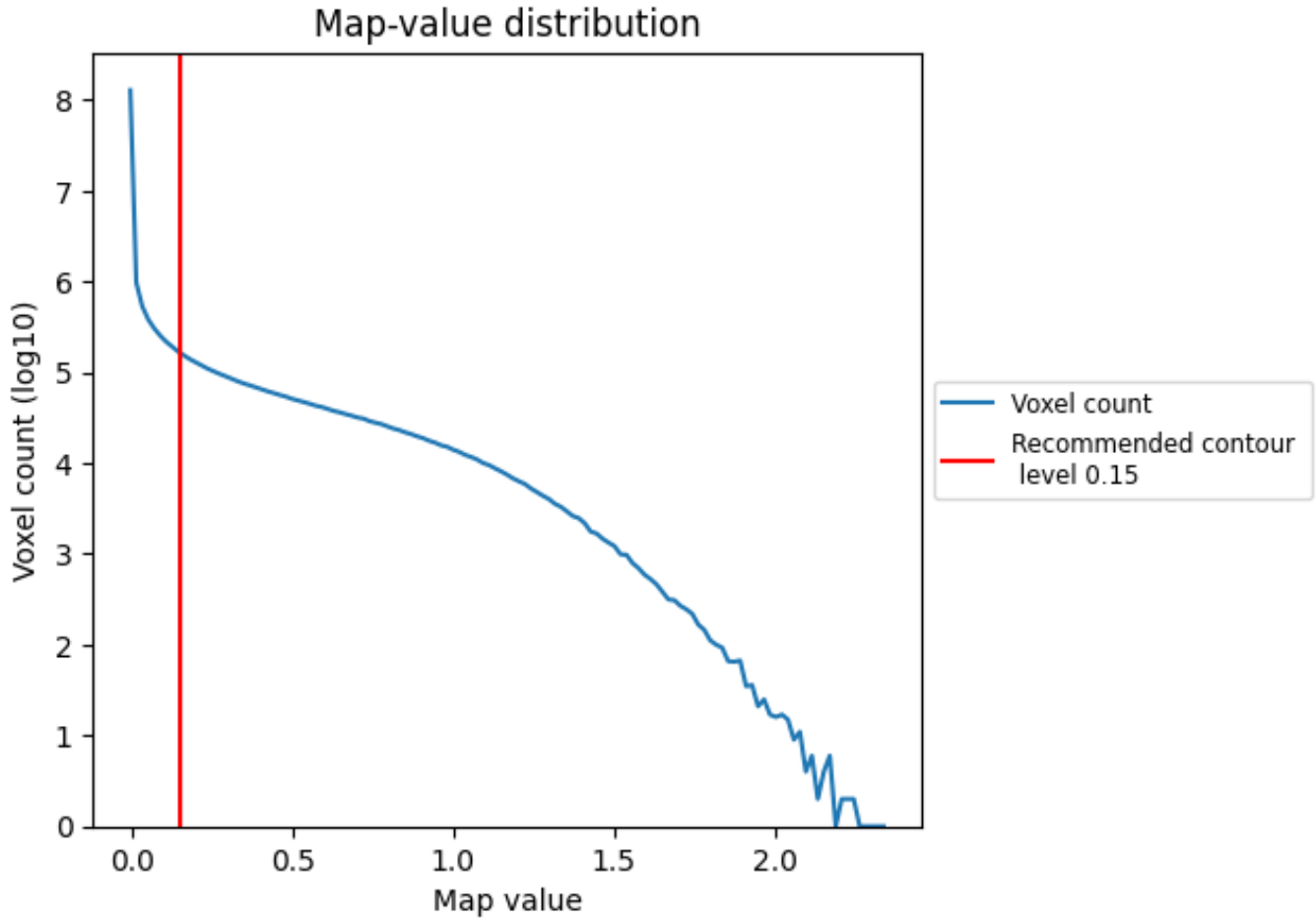


Z

7 Map analysis

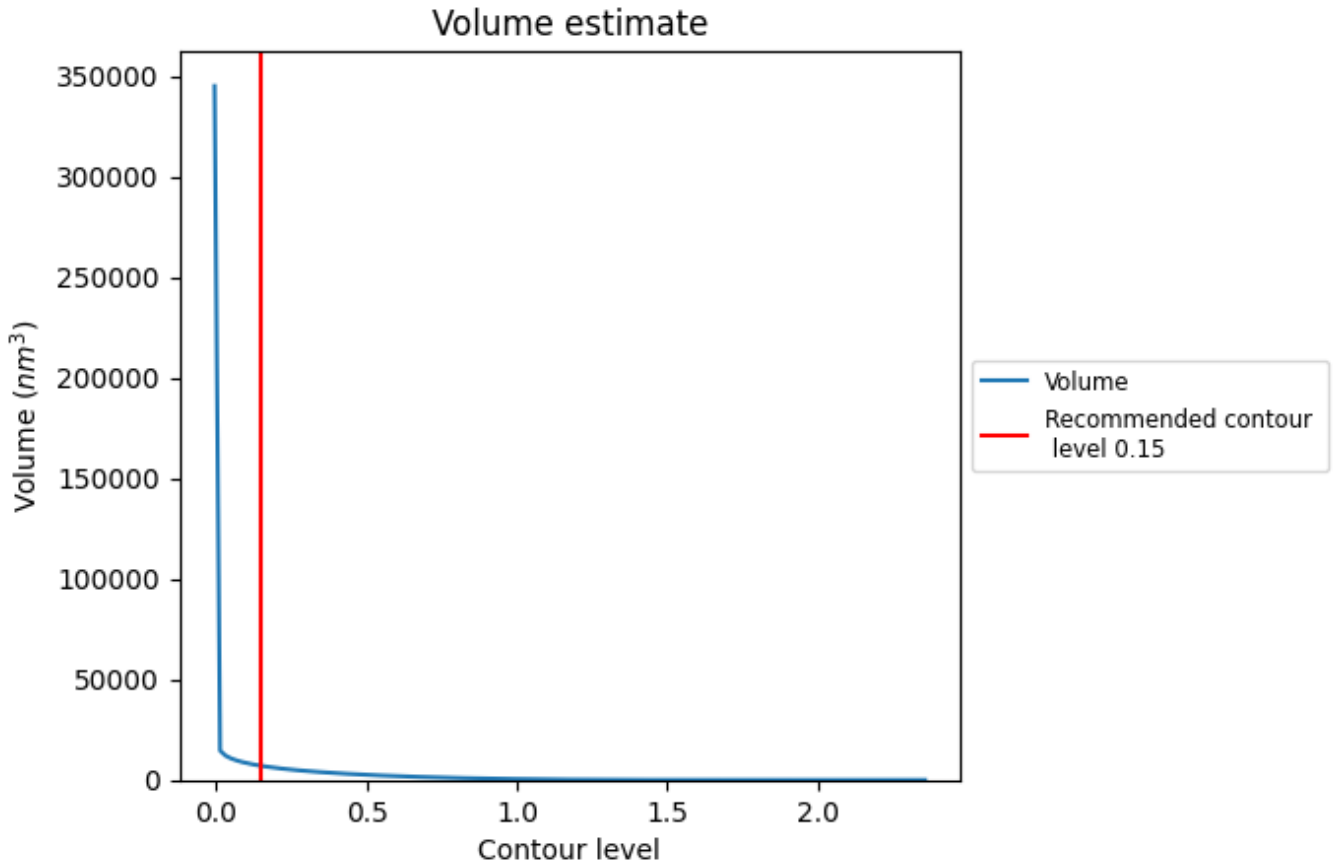
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

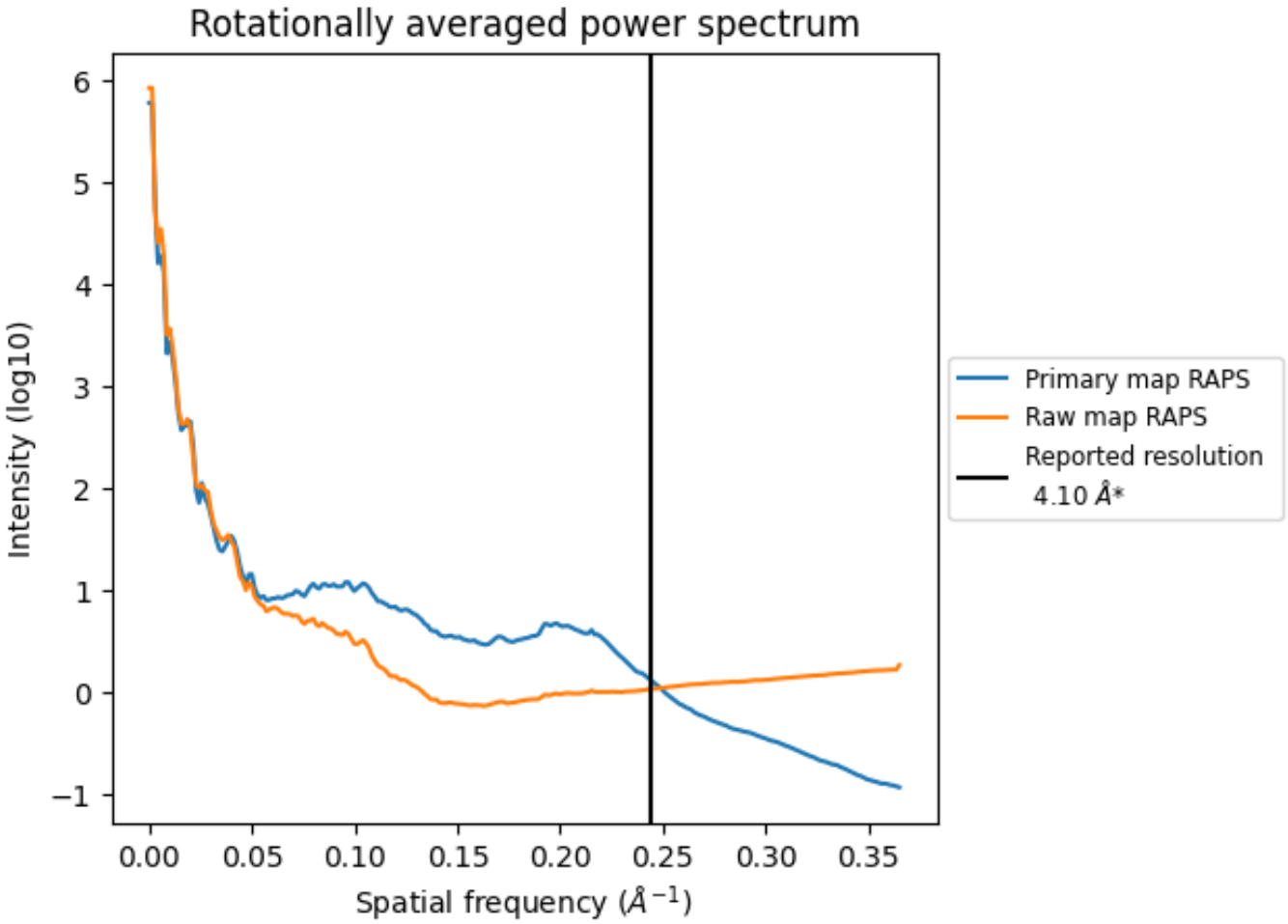
7.2 Volume estimate



The volume at the recommended contour level is 7038 nm^3; this corresponds to an approximate mass of 6357 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)

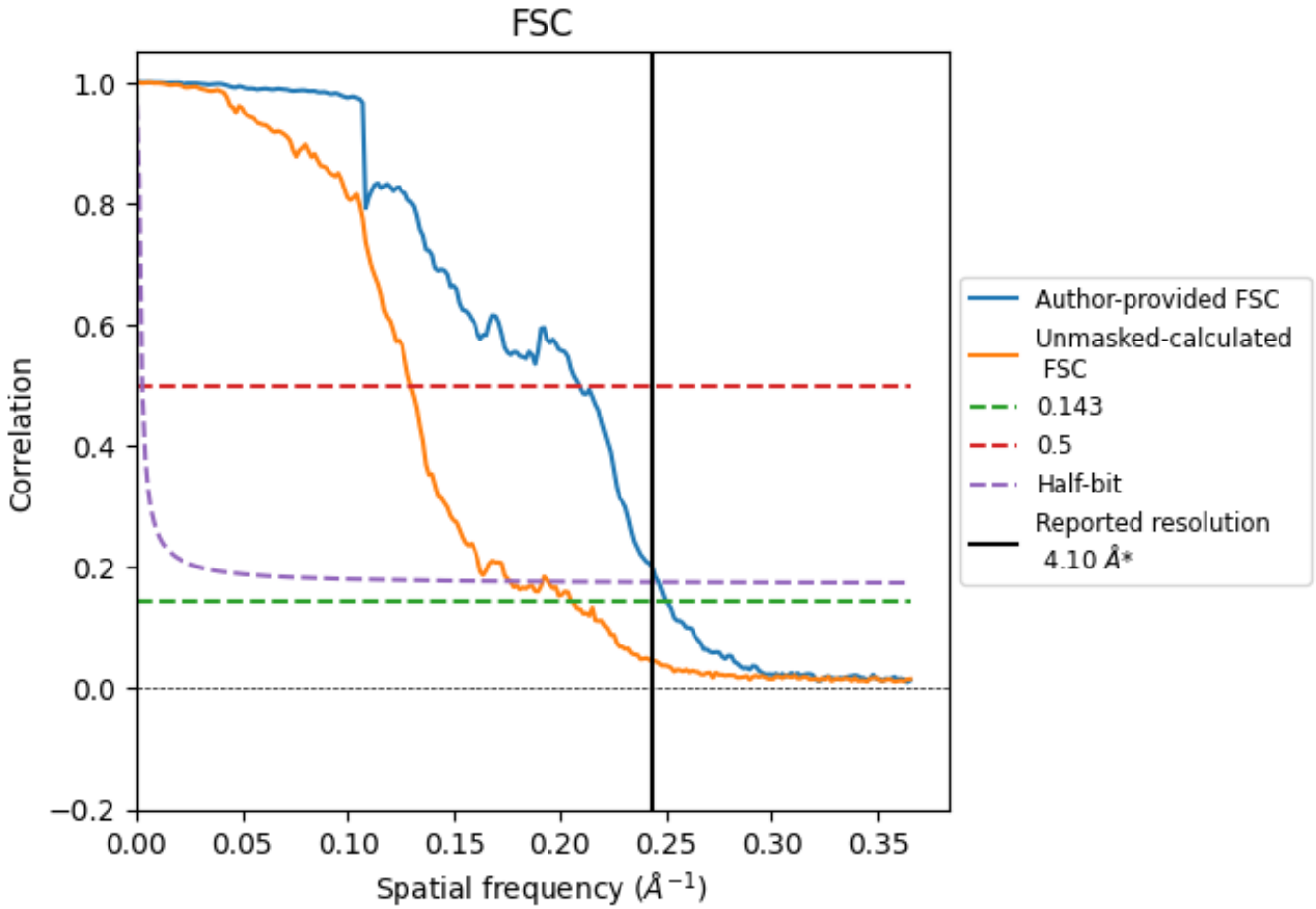


*Reported resolution corresponds to spatial frequency of 0.244 Å^{-1}

8 Fourier-Shell correlation

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



*Reported resolution corresponds to spatial frequency of 0.244 Å^{-1}

8.2 Resolution estimates (i)

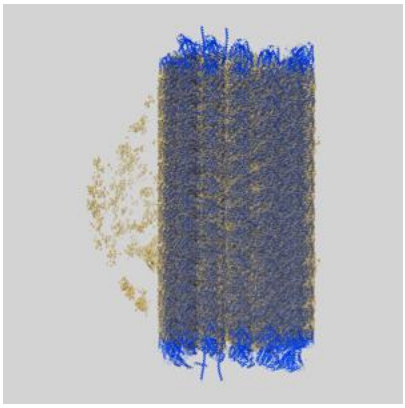
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.10	-	-
Author-provided FSC curve	4.00	4.78	4.05
Unmasked-calculated*	4.86	7.72	5.67

*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 4.86 differs from the reported value 4.1 by more than 10 %

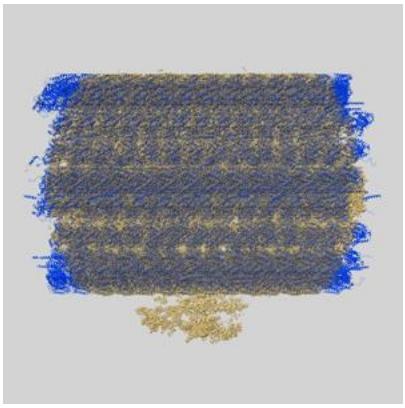
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-29685 and PDB model 8G2Z. Per-residue inclusion information can be found in section 3 on page 72.

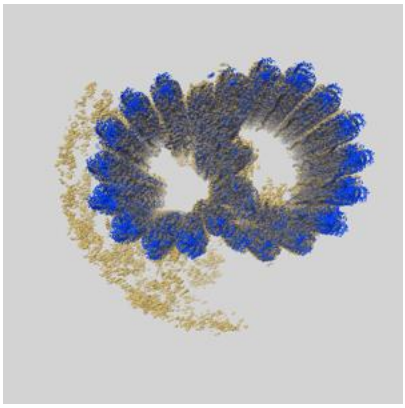
9.1 Map-model overlay



X



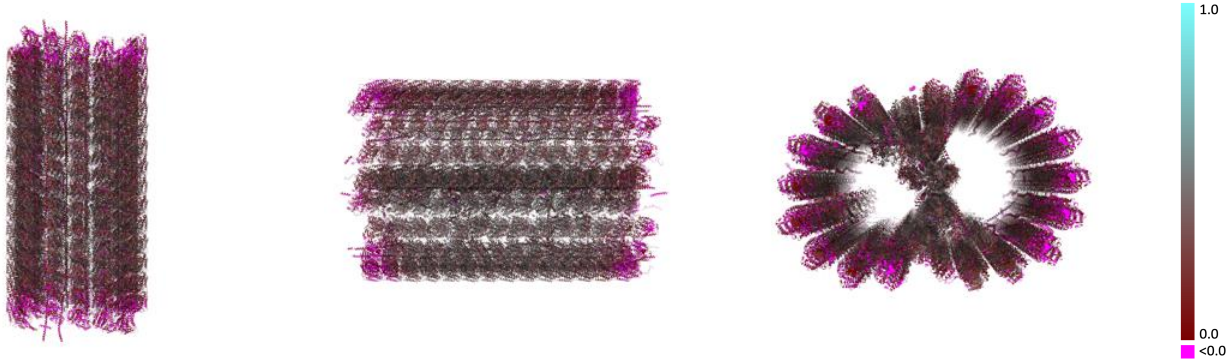
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.15 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.

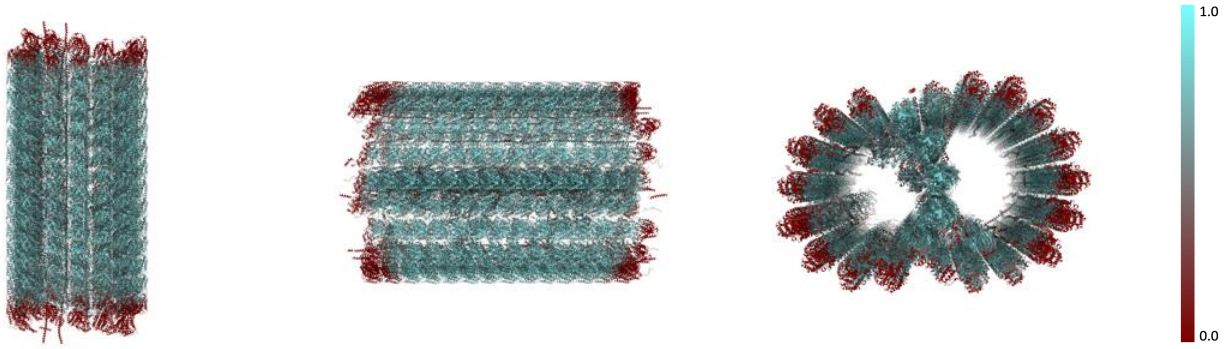
9.2 Q-score mapped to coordinate model (i)



X Y Z

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

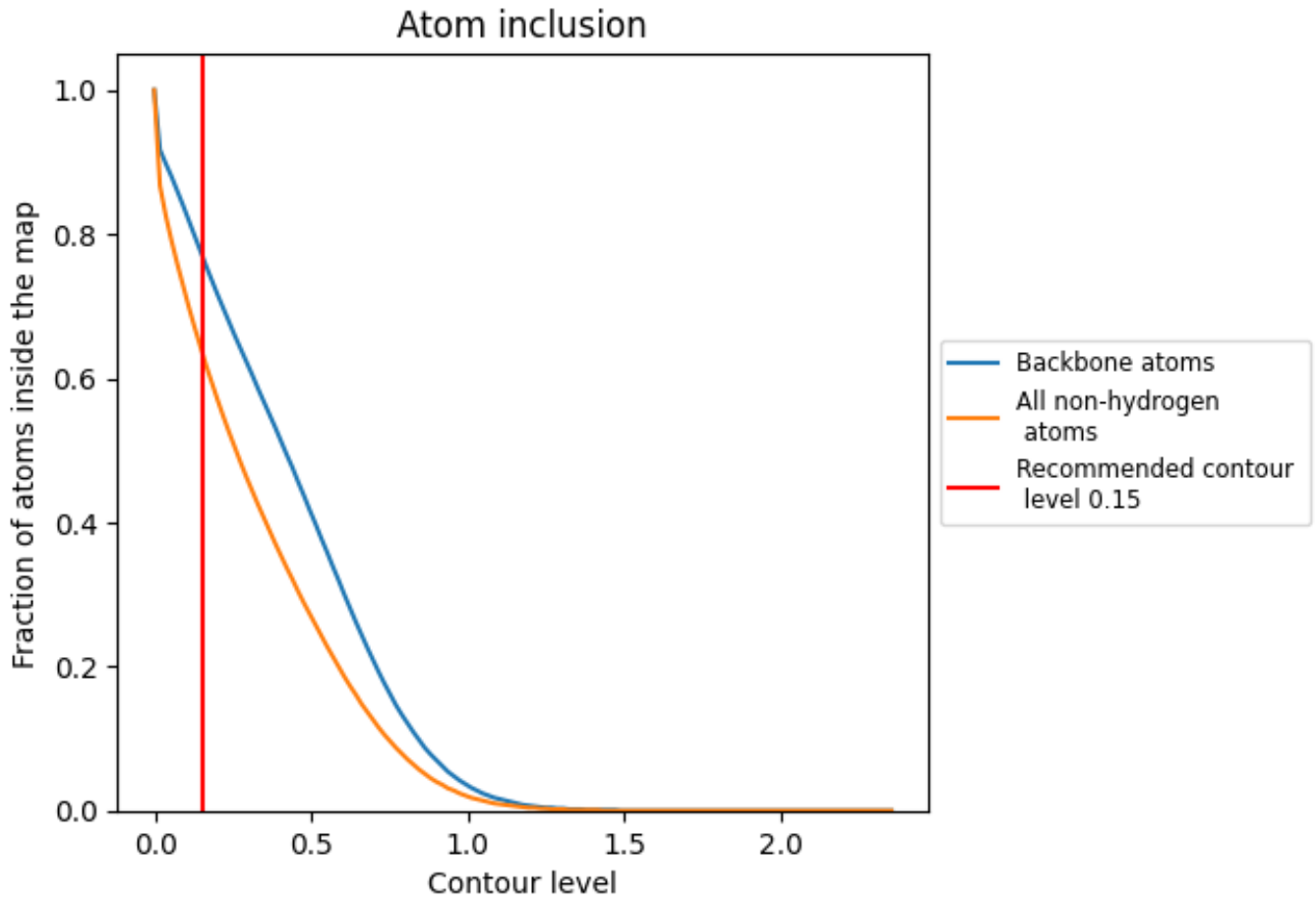
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.15).

9.4 Atom inclusion (i)



At the recommended contour level, 77% of all backbone atoms, 64% 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 (0.15) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.6350	0.2870
0A	0.6270	0.2850
0B	0.7020	0.3390
0C	0.6590	0.2830
0D	0.4860	0.1340
0E	0.4270	0.1140
0F	0.6730	0.2870
0G	0.5630	0.2310
0H	0.3130	0.0690
0N	0.6690	0.2830
0Q	0.6950	0.3030
0S	0.3450	0.1700
0T	0.3810	0.2120
0U	0.6490	0.2860
0V	0.3220	0.1440
0X	0.6190	0.2700
1A	0.6250	0.3300
1B	0.6590	0.3000
1C	0.6690	0.2570
1D	0.5820	0.2640
1E	0.4750	0.2120
1F	0.6510	0.3180
1G	0.5670	0.2220
1H	0.3960	0.1160
1I	0.6710	0.3240
1J	0.5980	0.2620
1K	0.5000	0.1890
1L	0.5870	0.2700
1M	0.7080	0.3460
1N	0.7050	0.3380
1O	0.3310	0.0650
1P	0.4110	0.0930
1Q	0.7350	0.3550
1R	0.6960	0.3450
1S	0.7010	0.3410



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Chain	Atom inclusion	Q-score
1T	0.7190	0.3760
1U	0.7190	0.3500
1V	0.5620	0.2500
1W	0.6570	0.3050
1X	0.6790	0.3550
2A	0.6660	0.3430
2B	0.6340	0.2800
2C	0.5680	0.2020
2D	0.5680	0.2430
2E	0.5390	0.2350
2F	0.6600	0.2910
2G	0.6680	0.3100
2H	0.6050	0.3290
2I	0.5660	0.2640
2K	0.4450	0.1560
2L	0.3740	0.1590
2M	0.7450	0.3700
2N	0.5800	0.2080
2O	0.3850	0.0520
2P	0.4280	0.1250
2Q	0.7370	0.3520
2R	0.7090	0.3620
2S	0.6930	0.3390
2T	0.7380	0.3700
2U	0.7200	0.3410
2V	0.5600	0.2450
2W	0.4220	0.1170
2X	0.6870	0.3440
3A	0.6540	0.3140
3B	0.5800	0.2380
3C	0.6340	0.2710
3D	0.3550	0.2420
3E	0.2920	0.0800
3H	0.5950	0.3190
3I	0.7040	0.3220
3L	0.2740	0.0410
3O	0.3560	0.0500
3Q	0.7310	0.3560
3R	0.6980	0.3480
3S	0.6950	0.3200
3T	0.7160	0.3540
3U	0.6100	0.2660

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Chain	Atom inclusion	Q-score
3V	0.5220	0.2240
3X	0.6450	0.3150
4C	0.6120	0.2600
4F	0.6090	0.2780
4H	0.6190	0.3360
4Q	0.7280	0.3560
4R	0.6910	0.3500
4S	0.6600	0.3150
4X	0.6460	0.2980
5A	0.5170	0.2410
5B	0.6500	0.3190
5C	0.6580	0.3260
5D	0.5100	0.2510
5E	0.3130	0.1210
5F	0.4260	0.2120
5G	0.4780	0.2440
5H	0.3940	0.1430
5I	0.2700	0.1310
5J	0.3190	0.2170
5K	0.1850	0.0640
5Q	0.7190	0.3490
5R	0.7080	0.3460
5S	0.6700	0.3220
6F	0.6980	0.3660
6G	0.5490	0.1970
6H	0.6170	0.2460
6Q	0.6620	0.2980
6R	0.5210	0.2160
7R	0.5490	0.2300
8L	0.6500	0.1740
8N	0.5800	0.1110
8P	0.6570	0.1800
8R	0.6270	0.1770
AA	0.7390	0.3500
AB	0.4970	0.2450
AC	0.7700	0.4050
AD	0.7710	0.3870
AE	0.7780	0.4230
AF	0.7690	0.4050
AG	0.7670	0.4100
AH	0.7600	0.4020
AI	0.7750	0.4080

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Chain	Atom inclusion	Q-score
AJ	0.7620	0.4030
AK	0.7740	0.4080
AL	0.7730	0.4080
AM	0.7420	0.3490
AN	0.7690	0.3820
BA	0.5690	0.2260
BB	0.0830	0.0170
BC	0.7410	0.3410
BD	0.7260	0.3190
BE	0.7490	0.3730
BF	0.7460	0.3660
BG	0.7480	0.3710
BH	0.7350	0.3510
BI	0.7730	0.3870
BJ	0.7530	0.3790
BK	0.7520	0.3700
BL	0.7480	0.3700
BM	0.6930	0.2930
BN	0.7450	0.3380
CA	0.2480	0.0830
CB	0.6510	0.2380
CC	0.7040	0.3080
CD	0.7440	0.3450
CE	0.7300	0.3520
CF	0.7290	0.3270
CG	0.7280	0.3460
CH	0.7380	0.3550
CI	0.7480	0.3670
CJ	0.7500	0.3500
CK	0.7330	0.3470
CL	0.6950	0.2970
CM	0.5950	0.2200
CN	0.0150	0.0060
DA	0.0240	0.0130
DB	0.4770	0.1790
DC	0.6960	0.2740
DD	0.7530	0.3340
DE	0.7370	0.3480
DF	0.7590	0.3500
DG	0.7330	0.3320
DH	0.7510	0.3510
DI	0.7410	0.3490

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Chain	Atom inclusion	Q-score
DJ	0.7570	0.3480
DK	0.7510	0.3330
DL	0.7010	0.2760
DM	0.5790	0.2040
DN	0.0330	-0.0070
EA	0.0000	0.0450
EB	0.2380	0.0770
EC	0.6040	0.2260
ED	0.7040	0.3040
EE	0.7220	0.3390
EF	0.7180	0.3380
EG	0.7080	0.3380
EH	0.6980	0.3200
EI	0.7260	0.3510
EJ	0.7220	0.3410
EK	0.7290	0.3400
EL	0.6770	0.2890
EM	0.5610	0.2120
EN	0.0430	-0.0070
FA	0.6100	0.2230
FB	0.1590	0.0540
FC	0.7580	0.3550
FD	0.7300	0.3150
FE	0.7570	0.3710
FF	0.7560	0.3660
FG	0.7440	0.3560
FH	0.7380	0.3490
FI	0.7630	0.3700
FJ	0.7580	0.3650
FK	0.6930	0.2910
FL	0.7440	0.3340
FM	0.0000	0.0090
FN	0.1680	0.0210
GA	0.5900	0.2170
GB	0.0800	-0.0020
GC	0.7510	0.3590
GD	0.7480	0.3270
GE	0.7620	0.3770
GF	0.7510	0.3730
GG	0.7370	0.3660
GH	0.7570	0.3700
GI	0.7580	0.3810

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Chain	Atom inclusion	Q-score
GJ	0.7680	0.3820
GK	0.7440	0.3410
GL	0.7460	0.3600
GM	0.0000	0.0040
GN	0.4400	0.1860
HA	0.6100	0.2520
HB	0.1250	0.0330
HC	0.7540	0.3780
HD	0.7530	0.3540
HE	0.7610	0.3900
HF	0.7560	0.3810
HG	0.7380	0.3680
HH	0.7580	0.3820
HI	0.7640	0.3980
HJ	0.7560	0.3790
HK	0.7610	0.3700
HL	0.7480	0.3750
HM	0.0860	0.0010
HN	0.6170	0.2650
IA	0.6800	0.2860
IB	0.2470	0.1070
IC	0.7540	0.3780
ID	0.7450	0.3560
IE	0.7570	0.3930
IF	0.7650	0.3960
IG	0.7380	0.3720
IH	0.7590	0.3840
II	0.7650	0.3930
IJ	0.7540	0.3800
IK	0.7660	0.3810
IL	0.7520	0.3800
IM	0.5180	0.2510
IN	0.7370	0.3360
JA	0.7550	0.3670
JB	0.7380	0.3350
JC	0.7620	0.3940
JD	0.7610	0.3880
JE	0.7690	0.3980
JF	0.7760	0.4110
JG	0.7630	0.3880
JH	0.7610	0.3940
JI	0.7720	0.4020

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Chain	Atom inclusion	Q-score
JJ	0.7630	0.3950
JK	0.7530	0.3760
JL	0.7640	0.3990
JM	0.2250	0.1040
JN	0.7110	0.3350
KA	0.7570	0.3580
KB	0.6910	0.2970
KC	0.7680	0.4020
KD	0.7670	0.3940
KE	0.7760	0.4030
KF	0.7870	0.4100
KG	0.7770	0.4040
KH	0.7740	0.4060
KI	0.7710	0.3910
KJ	0.7760	0.3980
KK	0.7900	0.4020
KL	0.7830	0.4120
KM	0.6410	0.3100
KN	0.7710	0.3780
LA	0.7530	0.3740
LB	0.7300	0.3370
LC	0.7680	0.4130
LD	0.7750	0.3990
LE	0.7630	0.4010
LF	0.7590	0.4020
LG	0.7620	0.4080
LH	0.7760	0.4050
LI	0.7560	0.3930
LJ	0.7720	0.4100
LK	0.7640	0.4050
LL	0.7660	0.4050
LM	0.7290	0.3450
LN	0.7800	0.3960
MA	0.7670	0.3810
MB	0.7330	0.3340
MC	0.7680	0.4070
MD	0.7720	0.4050
ME	0.7650	0.4070
MF	0.7810	0.4120
MG	0.7530	0.3940
MH	0.7710	0.4090
MI	0.7550	0.3960

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Chain	Atom inclusion	Q-score
MJ	0.7840	0.4140
MK	0.7670	0.4000
ML	0.7620	0.4080
MM	0.7470	0.3510
MN	0.7900	0.3960
NA	0.6530	0.2780
NB	0.5050	0.1950
NC	0.7260	0.3500
ND	0.7040	0.3210
NE	0.7230	0.3630
NF	0.7280	0.3680
NG	0.7200	0.3510
NH	0.7050	0.3430
NI	0.7180	0.3520
NJ	0.7210	0.3470
NK	0.7210	0.3500
NL	0.7120	0.3510
NM	0.4200	0.2120
NN	0.6890	0.3130
OA	0.6240	0.2260
OB	0.2530	0.0810
OC	0.7140	0.3160
OD	0.7100	0.2830
OE	0.7340	0.3470
OF	0.7420	0.3430
OG	0.7300	0.3310
OH	0.7250	0.3340
OI	0.7250	0.3360
OJ	0.7240	0.3270
OK	0.7310	0.3360
OL	0.7370	0.3410
OM	0.4040	0.1940
ON	0.6890	0.2870
PA	0.4570	0.1270
PB	0.0730	0.0150
PC	0.6880	0.2650
PD	0.6350	0.2110
PE	0.7190	0.3070
PF	0.7030	0.2940
PG	0.6980	0.2950
PH	0.7030	0.2940
PI	0.7150	0.3160

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Chain	Atom inclusion	Q-score
PJ	0.6900	0.2960
PK	0.7260	0.3090
PL	0.7210	0.3080
PM	0.2980	0.1290
PN	0.6560	0.2510
QA	0.2050	0.0200
QB	0.5990	0.1940
QC	0.6820	0.2340
QD	0.7050	0.2810
QE	0.7300	0.2930
QF	0.7140	0.2910
QG	0.7000	0.2760
QH	0.7150	0.3030
QI	0.7250	0.3000
QJ	0.7160	0.3010
QK	0.7040	0.2820
QL	0.6440	0.2260
QM	0.2160	0.0710
QN	0.0000	0.0310
RA	0.0870	0.0150
RB	0.5350	0.1860
RC	0.6590	0.2270
RD	0.6940	0.2710
RE	0.7010	0.2870
RF	0.6990	0.2800
RG	0.6830	0.2670
RH	0.7000	0.2800
RI	0.7060	0.2980
RJ	0.6970	0.2860
RK	0.6910	0.2710
RL	0.6290	0.2190
RM	0.2500	0.0860
RN	0.0000	0.0250
SA	0.0180	0.0210
SB	0.4380	0.1350
SC	0.6670	0.2360
SD	0.7140	0.2840
SE	0.7160	0.2920
SF	0.7160	0.2890
SG	0.7120	0.2790
SH	0.7140	0.2950
SI	0.7180	0.3020

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Chain	Atom inclusion	Q-score
SJ	0.7170	0.3000
SK	0.7190	0.2910
SL	0.6630	0.2300
SM	0.3750	0.1260
SN	0.0000	0.0100
TA	0.0010	0.0270
TB	0.3000	0.0530
TC	0.6160	0.2070
TD	0.6780	0.2620
TE	0.6860	0.2580
TF	0.6920	0.2750
TG	0.6800	0.2610
TH	0.6700	0.2540
TI	0.6810	0.2690
TJ	0.6900	0.2710
TK	0.6830	0.2740
TL	0.6420	0.2200
TM	0.4850	0.1300
TN	0.0480	0.0030
UA	0.0170	0.0260
UB	0.3530	0.1120
UC	0.6310	0.2310
UD	0.6630	0.2510
UE	0.7050	0.2890
UF	0.6710	0.2670
UG	0.6830	0.2680
UH	0.6490	0.2400
UI	0.6810	0.2710
UJ	0.6640	0.2560
UK	0.6700	0.2720
UL	0.6420	0.2410
UM	0.5990	0.2090
UN	0.1950	0.0210
VA	0.6960	0.2830
VB	0.4690	0.1930
VC	0.7380	0.3310
VD	0.7350	0.3130
VE	0.7390	0.3230
VF	0.7300	0.3250
VG	0.7330	0.3190
VH	0.7070	0.2980
VI	0.7430	0.3270

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Chain	Atom inclusion	Q-score
VJ	0.7280	0.3210
VK	0.6950	0.2880
VL	0.7130	0.2990
VM	0.0210	0.0100
VN	0.4530	0.1240
WA	0.7190	0.3010
WB	0.5110	0.2200
WC	0.7390	0.3350
WD	0.7250	0.3210
WE	0.7280	0.3310
WF	0.7300	0.3360
WG	0.7220	0.3170
WH	0.7010	0.3050
WI	0.7480	0.3460
WJ	0.7320	0.3300
WK	0.7150	0.3010
WL	0.7130	0.3140
WM	0.2330	0.0860
WN	0.6270	0.2310